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2010 - 2018

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July 20, 2011

Glenn von Gonten
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject: **2010 Annual Groundwater Report, Maverik Country Stores (Former Caribou Refinery), Kirtland, New Mexico**

Dear Mr. von Gonten,

This report provides results of the 2010 groundwater monitoring event for the Maverik Country Stores site (former Caribou Refinery) in Kirtland, New Mexico (**Figure 1**). This monitoring event was completed during the week of November 15, 2010 to meet the annual monitoring requirements for the site. The scope of work completed included:

- Fluid level measurements of twenty-one on-site and off-site wells;
- Low-flow groundwater sampling of nine wells in and around the impoundment area; and
- Analytical evaluation of volatile organic compounds (VOCs) in groundwater.

Field methods, results, and conclusions from the 2010 groundwater sampling event are discussed below.

Groundwater Sampling

Groundwater sampling activities were completed on November 18, 2010. Prior to well sampling, site-wide fluid levels were measured using an oil/water interface probe to establish groundwater elevations (**Table 1**) for compilation of the site potentiometric surface map (**Figure 2**). Fluid levels were not obtainable from two of the site wells including:

- MW-04 (has been converted to an irrigation well within a pump house by Mr. Roland Jackson; and
- MW-06 (unable to locate, possibly abandoned or destroyed).

None of the monitoring wells contained measurable thicknesses of light non-aqueous phase liquid (LNAPL) during this event. Based on the December 2010 groundwater elevations, the groundwater flow direction is to the south-southwest across the site toward the San Juan River. A horizontal gradient was calculated ranging from 0.011 ft/ft near the northern portion site to 0.014 ft/ft the southern portion of the site in the residential area (**Figure 2**). This flow direction is consistent with past monitoring events.

Nine monitoring wells were sampled utilizing low flow sampling methods as specified in the work plan. All wells were sampling utilizing a peristaltic pump and flow-through cell. Field parameters measured during the sampling event included pH, specific conductance, dissolved oxygen (DO), oxygen reduction potential (ORP) and temperature. Field measurements are provided on the groundwater sampling forms in **Attachment A**. Groundwater samples were delivered to Test America in Arvada, Colorado under chain of custody protocol and analyzed for volatile organic compounds (VOCs) using EPA Method 8260. Laboratory deliverables and AECOM data validation reports are provided in **Attachment B**.

Results of the groundwater sampling are summarized in **Table 2**. The groundwater results show that constituents of concern, benzene, toluene, ethyl benzene, and xylene (BTEX) concentrations are confined to the slurry wall impoundment area (**Figure 3**). Other detected compounds from within the slurry wall wells

(MW-17 and MW-22) included 1,2,4 trimethylbenzene, 4-isopropyltoluene, isopropylbenzene, n-propylbenzene, sec-butylbenzene, and naphthalene (**Table 2**). The VOC concentrations in the down-gradient wells (MW-10, MW-19 and MW-20) outside the slurry wall and cross gradient wells (MW-9, MW-16, and MW-21) showed concentrations below the standard analytical reporting limits for VOCs (**Table 2**). The up-gradient well, MW-18, located on the northern edge of the slurry wall had concentrations below the standard analytical reporting limits for VOCs. The precision, accuracy, method compliance, and completeness of the laboratory data set have been determined to be acceptable, based on the data submitted (**Attachment B**).

Groundwater field parameters pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured using a flow through cell and YSI 556 MPS during groundwater sampling. The ORP levels are lower within the impoundment area wells compared to surrounding wells (**Attachment A**). The lower levels of ORP are attributable to biodegradation of hydrocarbons within the impoundment. Well MW-21 on the east side of the impoundment and MW-18 on the north side of the impoundment have conductivity levels greater than an order of magnitude above other site wells. The elevated conductivity in these wells is presumed to be from salt solutions that are used and stored at the neighboring property. Review of historic data indicates that conductivity levels in MW-21 spiked in between October 1999 and October 2000, and have since declined. Conductivity levels in MW-18 have continued to rise since 2007.

Summary and Conclusions

The annual groundwater sampling at the former Caribou Refinery was completed in the week of November 15, 2010. Nine wells in and around the slurry wall impoundment area were sampled using low-flow methods for VOCs. Fluid levels were measured in 21 wells to establish groundwater flow conditions. Groundwater flow is to the south-southwest across the site toward the San Juan River. Groundwater results were below analytical reporting limits for all 8260 VOCs with the exception of wells located within the slurry wall impoundment area (MW-17 and MW-22). Groundwater concentrations within the slurry wall contain a suite of VOCs, primarily benzene, ethylbenzene, xylenes, and trimethylbenzene compounds. The maximum benzene concentration was 20 µg/L in MW-17.

Through time the groundwater VOC concentrations have declined appreciably, likely through biodegradation processes. Evidence of natural attenuation of hydrocarbons in the slurry wall is supported by reduction of ORP in groundwater within the impoundment. Compounds such as 1,2-Dichloroethane are no longer detected in site groundwater and VOCs such as benzene have decreased since the early 1990s. Overall, the slurry wall impoundment is functioning as designed and no off-site migration of constituents of concern is occurring.

Sincerely,

Catherine Oakleaf
Staff Engineer

Jason Jayroe
Project Manager

Tables
- Table 1 – Groundwater Elevation Table
- Table 2 – Analytical Results Table

Figures
- Figure 1 – Site Location Map
- Figure 2 – Potentiometric Surface Map, November 2010
- Figure 3 – BTEX Concentration Map, November 2010

Attachments
- Attachment A – Groundwater Sampling Logs
- Attachment B – Laboratory Data and Data Validation

Tables

Table 1 Monitoring Well Construction Summary and November 2010 Fluid Levels, Maverik Country Stores, Inc. (Former Caribou Refinery)

Well ID	Completion Date	Total Depth (ft. BGS)	Well Diameter (in.)	Top of Steel Casing Elevation (ft. AMSL)	Top of PVC Casing Elevation (ft. AMSL)	Ground Surface Elevation (ft. AMSL)	Top of Screen (ft. BGS)	Bottom of Screen (ft. BGS)	Screen Length (ft.)	Top of Screen Elevation (ft. AMSL)	Bottom of Screen Elevation (ft. AMSL)	Depth to Groundwater (feet) November 2010	Product Thickness (feet)	Groundwater Elevation (ft. AMSL)	Comments
MW-1	1987	21.5	2	5207.79	5207.24	5205.75	11.5	21.5	10	5194.25	5184.25	10.83	NA	5196.41	
MW-2	1987	15	2	5197.10	5196.93	5195.25	5	15	10	5190.25	5180.25	5.97	NA	5190.96	
MW-3	1987	14.5	2	5183.00	5181.46	5181.06	4.5	14.5	10	5176.56	5166.56	2.57	NA	5178.89	
MW-4	1987	15	2	5178.41	5177.1	5176.14	5	15	10	5171.14	5161.14	NM	NA	NM	Converted to irrigation well
MW-5	1987	15	2	5175.62	5175.09	5173.67	5	15	10	5168.67	5158.67	6.42	NA	5168.67	
MW-6	1987	15.5	2	5176.40	5176.01	5174.23	5.5	15.5	10	5168.73	5158.73	NM	NA	NM	Well not located
MW-7	1987	15	2	5183.71	5182.84	5181.73	5	15	10	5176.73	5166.73	5.67	NA	5177.17	
MW-8	1987	15	2	5186.00	5185.87	5184.02	5	15	10	5179.02	5169.02	4.89	NA	5180.98	
MW-9	1987	15	2	5191.39	5191.22	5189.33	5	15	10	5184.33	5174.33	4.01	NA	5187.21	
MW-10	1987	12.5	2	5189.80	5189.30	5187.47	2.5	12.5	10	5184.97	5174.97	3.88	NA	5185.42	
MW-11	1987	33	2	5197.26	5197.15	5194.97	23	33	10	5171.97	5161.97	NM	NA	NM	Abandoned 1990
MW-12	1987	12	2	5196.66	5196.19	5194.80	2	12	10	5192.80	5182.80	NM	NA	NM	Abandoned 1990
MW-13	1987	5	2	5187.76	NA	5187.56	0	5	5	5187.56	5182.56	NM	NA	NM	Destroyed
MW-14	1989	6	2	NA	5194.47	5190.70	1	6	5	5189.70	5184.70	7.16	NA	5187.31	
MW-15	1989	6	2	NA	5188.80	5185.40	1	6	5	5184.40	5179.40	4.61	NA	5184.19	
MW-16	1990	13	2	NA	5194.98	5193.74	3	13	10	5190.74	5180.74	5.64	NA	5189.34	
MW-17	1993	15	2	5196.49	5195.91	5193.43	5	15	10	5188.43	5178.43	8.47	NA	5187.44	
MW-18	1993	15	2	5202.27	5201.75	5199.14	5	15	10	5194.14	5184.14	12.18	NA	5189.57	
MW-19	1990	12.5	2	NA	5189.54	5188.28	2.5	12.5	10	5185.78	5175.78	2.84	NA	5186.70	
MW-20	1990	12	2	NA	5191.05	5190.10	2	12	10	5188.10	5178.10	4.2	NA	5186.85	
MW-21	1990	13	2	NA	5194.81	5193.62	3	13	10	5190.62	5180.62	5.52	NA	5189.29	
MW-22	1990	13	2	NA	5195.86	5194.58	3	13	10	5191.58	5181.58	7.12	NA	5188.74	
P-1	1993	8	2	NA	5197.66	5195.74	3	8	5	5192.74	5187.74	7.57	NA	5190.09	
P-2	1993	8	2	NA	5192.32	5190.50	3	8	5	5187.50	5182.50	4.48	NA	5187.84	
P-3	1993	8	2	NA	5193.21	5191.44	3	8	5	5188.44	5183.44	5.39	NA	5187.82	
P-4	1993	8	2	NA	5198.82	5197.06	3	8	5	5194.06	5189.06	8.89	NA	5189.93	

Notes:

AMSL = Above mean sea level

BGS = Below ground surface

NM = Not Measured

NA = Not Applicable

Table 2 Groundwater Results, Maverik Country Stores, Inc. (Former Caribou Refinery)

chemical_name	Unit	MW-09	MW-10	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-DUP (MW-22)
1,1,1,2-Tetrachloroethane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	ug/l	<1.0	<1.0	<1.0	**2.3**	<1.0	<1.0	<1.0	<1.0	**12**	**12**
1,2-Dibromo-3-chloropropane (DBCP)	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethene (total)	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/l	<1.0	<1.0	<1.0	**0.36 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	ug/l	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
2-Chlorotoluene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Isopropyltoluene	ug/l	<1.0	<1.0	<1.0	**0.30 J**	<1.0	<1.0	<1.0	<1.0	**0.65 J**	**0.66 J**
4-Methyl-2-pentanone	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	ug/l	<1.0	<1.0	<1.0	**20**	<1.0	<1.0	<1.0	<1.0	**16**	**16**
Bromobenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
Bromodichloromethane	ug/l	<1.0	<1.0	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
Bromoform	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	ug/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	ug/l	<1.0	<1.0	<1.0	**2.8**	<1.0	<1.0	<1.0	<1.0	**22**	**22**
Hexachlorobutadiene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	ug/l	<1.0	<1.0	<1.0	**0.44 J**	<1.0	<1.0	<1.0	<1.0	**5.8**	**5.9**
Methyl tert-butyl ether	ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	ug/l	<2.0	<2.0 U	<2.0	<2.0	<2.0	<2.0 U	<2.0	<2.0	<2.0 U	<2.0 U
m-Xylene & p-Xylene	ug/l	<2.0	<2.0	<2.0	**4.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	**1.4**
n-Butylbenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	ug/l	<1.0	<1.0	<1.0	**0.52 J**	<1.0	<1.0	<1.0	<1.0	**14**	**14**

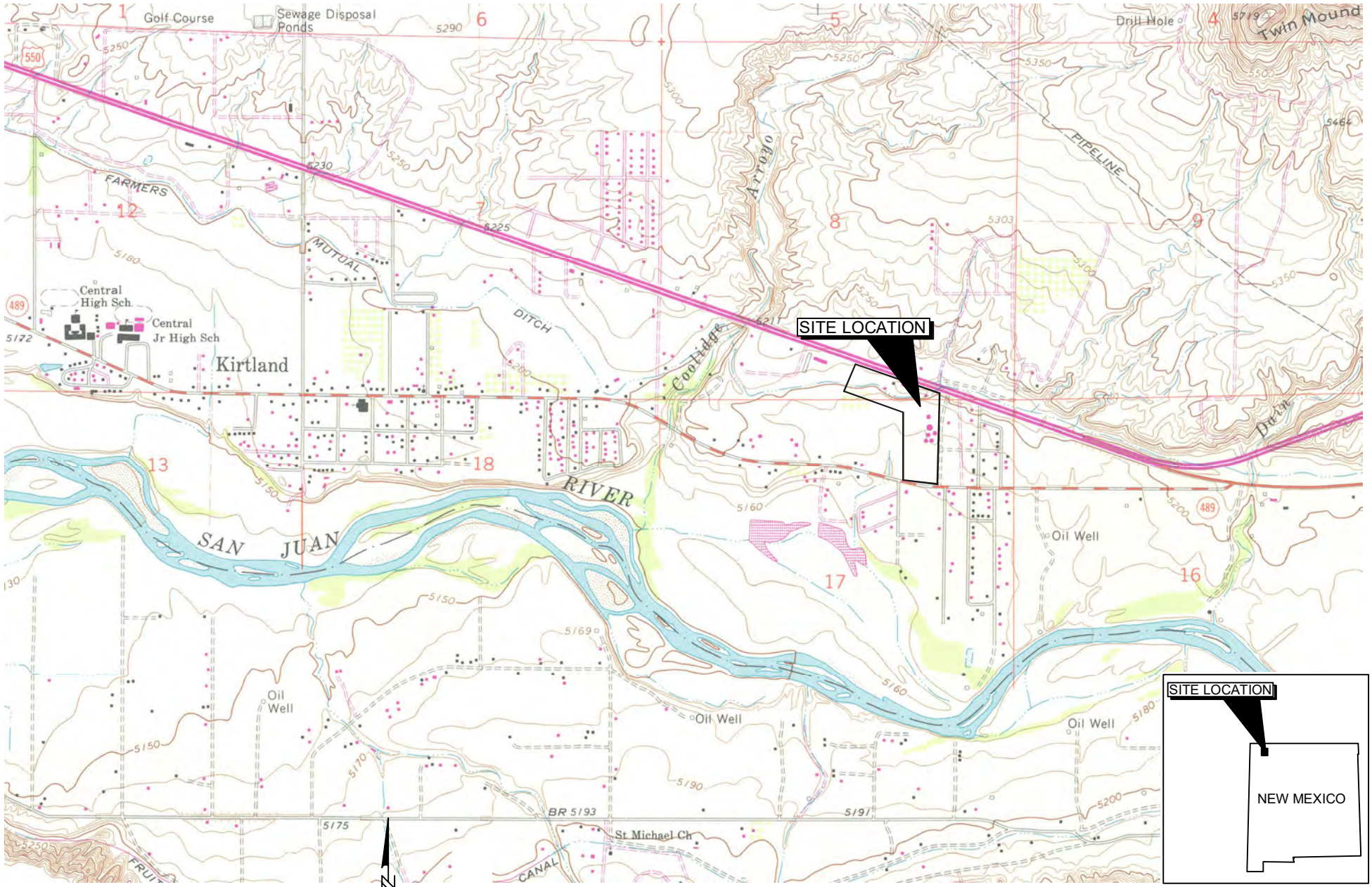
Table 2 Groundwater Results, Maverik Country Stores, Inc. (Former Caribou Refinery)

chemical_name	Unit	MW-09	MW-10	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-DUP (MW-22)
o-Xylene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**0.22 J**	**0.21 J**
sec-Butylbenzene	ug/l	<1.0	<1.0	<1.0	**0.63 J**	**1.6 J**	<1.0	<1.0	<1.0	**2.7**	**3.3**
Styrene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	ug/l	<1.0	<1.0	<1.0	**0.18 J**	<1.0	<1.0	<1.0	<1.0	**0.31 J**	**0.29 J**
trans-1,2-Dichloroethene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/l	<3.0	<3.0 UJ	<3.0 UJ	<3.0 UJ	<3.0	<3.0 UJ	<3.0	<3.0	<3.0 UJ	<3.0 UJ
Trichloroethene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	ug/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	ug/l	<2.0	<2.0	<2.0	**4.0**	<2.0	<2.0	<2.0	<2.0	**0.22 J**	**0.21 J**

Notes:
U - Evaluated to be undetected at the reporting limit/concentration, due to evidence of contamination.
J - Estimated Result. Result is less than Reporting Limit.

Figures

File: Z:\Maverik\2010 Annual GW Report\AGWR10_Figure 1 Site Location Map.dwg Layout: FIGURE 1 User: marshalle Plotted: Jul 14, 2011 – 2:29pm Xref's:

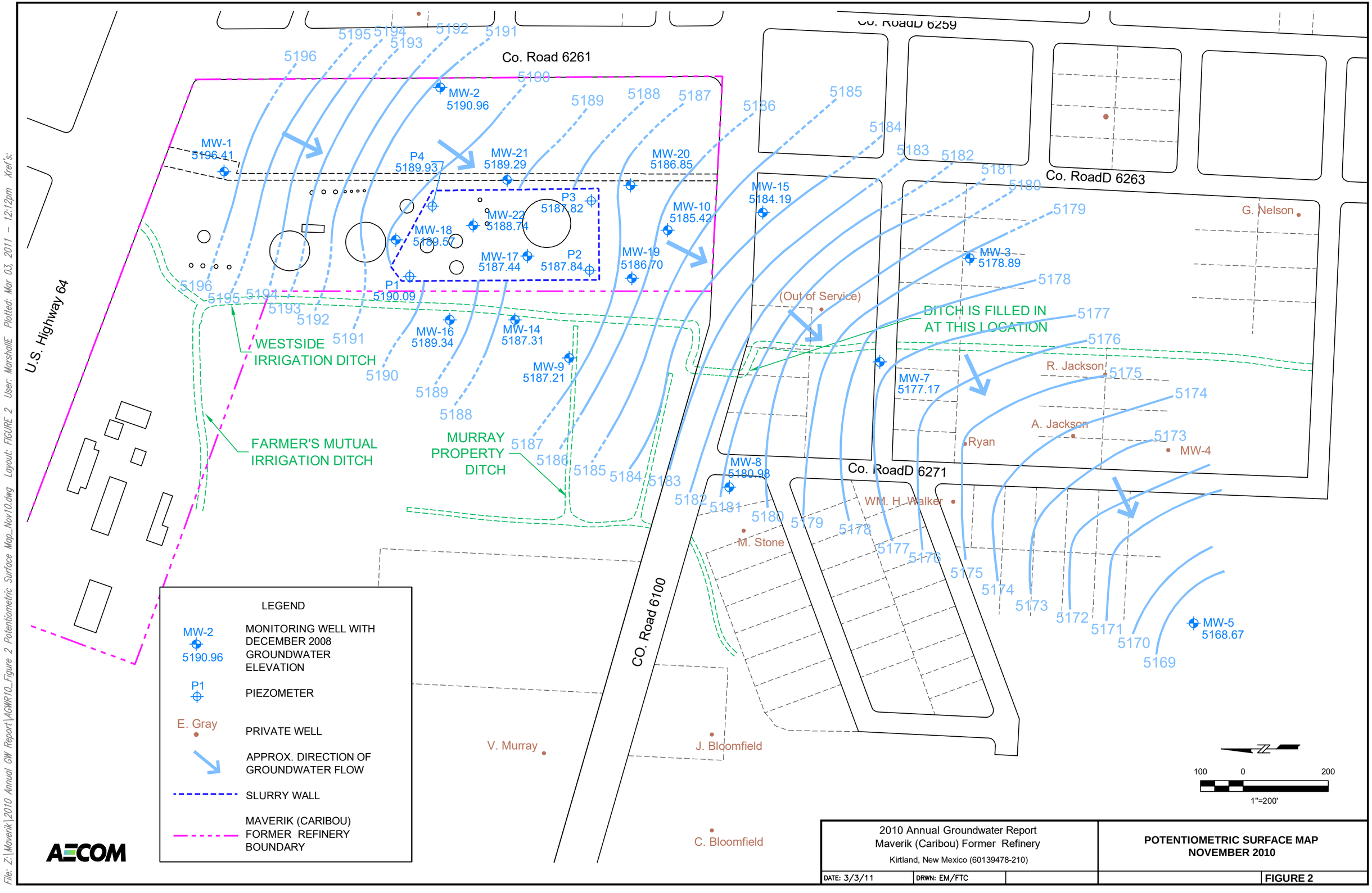


AECOM

2010 Annual Groundwater Report
Maverik (Caribou) Former Refinery
Kirtland, New Mexico (60139478-210)

SITE LOCATION MAP

DATE: 7/14/11 | DRWN: EM/FTC | **FIGURE 1**



File: Z:\Maverik\2010 Annual GW Report\AGWR10_Figure 2 Potentiometric Surface Map_Nov10.dwg Layout: FIGURE 2 User: MarshallE Plotted: Mar 03, 2011 - 12:12pm Xref's:

LEGEND

MW-2 NOVEMBER 2010 BTEX CONCENTRATIONS

Chemical (ug/l)	MW-22
Benzene	16
Toluene	0.31 J
Ethylbenzene	22
Xylenes, Total	0.22 J

J - Estimated concentration

P1 PIEZOMETER

E. Gray PRIVATE WELL

SLURRY WALL

MAVERIK (CARIBOU) FORMER REFINERY BOUNDARY

Co. Road 6257

Chemical (ug/l)	MW-22-111810	MW-DUP-111810
Benzene	16	16
Toluene	0.31 J	0.29 J
Ethylbenzene	22	22
Xylenes, Total	0.22 J	0.21 J

Chemical (ug/l)	MW-21-111810
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0

Chemical (ug/l)	MW-17-111810
Benzene	20
Toluene	0.18 J
Ethylbenzene	2.8
Xylenes, Total	4.0

Chemical (ug/l)	MW-20-111810
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0

Chemical (ug/l)	MW-10-111810
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0

Chemical (ug/l)	MW-18-111810
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0

Chemical (ug/l)	MW-16-111810
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0

Chemical (ug/l)	MW-19-111810
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0

Chemical (ug/l)	MW-09-111810
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0

Co. RoadD 6259

Co. RoadD 6263

Co. RoadD 6271

Road

U.S. Highway 64

J.L. Flack

Q. Curley

E. Gray

(Out of Service)

A. Jackson

Ryan

WM. H. Walker

M. Stone

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 MW-20 MW-21 MW-22

P1 P2 P3 P4

WESTSIDE IRRIGATION DITCH

MURRAY PROPERTY DITCH

DITCH IS FILLED IN AT THIS LOCATION

FARMER'S MUTUAL IRRIGATION DITCH

80 0 160

SCALE IN FEET

AECOM

2010 Annual Groundwater Report
Maverik (Caribou) Former Refinery
Kirtland, New Mexico (60139478-210)

DATE: 7/14/11 | DRWN: EM/FTC

BTEX CONCENTRATIONS IN GROUNDWATER NOVEMBER 2010

FIGURE 3

File: Z:\Maverik\2010 Annual GW Report\AGWR10_Figure 3 Btex Concentrations_Nov10.dwg Layout: FIGURE 3 User: marshalle Plotted: Jul 14, 2011 - 2:31pm Xref's:

Attachment A

Groundwater Sampling Logs

Groundwater Sampling Form

Project/Site: Maverik Kirtland, NM

Well ID: MW-09
Sampler(s): JJ

Well Condition

Bump Posts: NA
Well Label: ok
Visibility: ok
Surface Pad: ok
Secured: yes

Fluid Level/Purge Volume Information

Date: 11/18/10 Time: 1310

Purge Method: Peristaltic Pump
Depth to water (ft): 4.01
Depth to product (ft): NA
Total depth (ft): 16.61
Water column thickness (ft): _____
One Purge Volume (gal): _____

Groundwater Field Parameters

Date: 11/18/10 Start Time: 1315

Time	Volume Evacuated (gal)	pH (SU)	SpCond. (mS/cm) or (µS/cm)	Temp. (°C)	Dis. Ox. (ppm) or (mg/L)	ORP (mV)	Sample Appearance/Description
1310	0.25	7.37	2.47	16.26	0.68	-95.1	clear
1325	1.25	7.34	2.43	16.84	0.81	-98.7	"
1335	1.75	7.33	2.42	16.70	0.72	-126.6	"
1345	2.00	7.34	2.42	16.79	0.63	-127.1	"
1350	2.25	7.34	2.42	16.76	0.60	-127.8	"

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/17/10	0700	Factory cal
pH and SpC Calibration	"	"	
ORP Calibration	"	"	
	"	"	

Sample Collection and Analytical Information

Date: 11/18/10 Time: 1350

Laboratory: Test America Denver
COC Seal: _____
Shipped by: FedEx
Shipping Container: _____
Field Instrument(s): YSI 556

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOC	8260	40mL VOA	HCL	3 Vials
☐					
☐					
☐					
☐					
☐					
☐					

Comments: _____

Groundwater Sampling Form

Project/Site: Maverik Kirtland, NM

Well ID: MW-1B

Sampler(s): JJ

Well Condition

Bump Posts: NA

Well Label: ok

Visibility: ok

Surface Pad: ok

Secured: yes

Fluid Level/Purge Volume Information

Date: 11/18/10 Time: 1500

Purge Method: Peristaltic Pump

Depth to water (ft): 3.88

Depth to product (ft): NA

Total depth (ft): 15.21

Water column thickness (ft): _____

One Purge Volume (gal): _____

Groundwater Field Parameters

Date: _____ Start Time: _____

Time	Volume Evacuated (gal)	pH (SU)	SpCond. (mS/cm) or (µS/cm)	Temp. (°C)	Dis. Øx. (ppm) or (mg/L)	ORP (mV)	Sample Appearance/Description
1505	0.25	7.54	1.50	14.53	5.34	-90.3	clear
1510	0.50	7.47	1.49	14.34	1.81	-99.6	"
1525	1.50	7.45	1.48	14.42	1.10	-107.9	"
1530	1.75	7.44	1.48	14.41	1.05	-108.0	"

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/17/10	0700	Factory Cal
pH and SpC Calibration	"	"	
ORP Calibration	"	"	
	"	"	

Sample Collection and Analytical Information

Laboratory: Test America Denver

COC Seal: yes

Shipped by: Fed Ex

Shipping Container: Cooler

Field Instrument(s): YSI 556

Date: 11/18/10 Time: 1530

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOC	8260	40mL VOA	HCL	3 vials
☐					
☐					
☐					
☐					
☐					
☐					

Comments: _____

Groundwater Sampling Form

Project/Site: Maverik Kirtland, NM

Well ID: MW-16

Sampler(s): JJ

Well Condition

Bump Posts: NA Visibility: ok Secured: yes

Well Label: ok Surface Pad: ok

Fluid Level/Purge Volume Information

Date: 11/18/10 Time: 1215

Purge Method: Peristaltic Pump

Depth to water (ft): 5.64

Depth to product (ft): NA

Total depth (ft): 14.62

Water column thickness (ft): _____

One Purge Volume (gal): _____

Groundwater Field Parameters

Date: 11/18/10 Start Time: ~~1205~~ 1215

Time	Volume Evacuated (gal)	pH (SU)	SpCond. ~~(mS/cm)~~ or (µS/cm)	Temp. (°C)	Dis. Ox. (ppm) or (mg/L)	ORP (mV)	Sample Appearance/Description
1215	0.25	7.18	4.07	17.02	11.97	-82.4	clear
1225	0.75	7.07	4.16	16.85	1.58	-18.5	"
1235	1.25	7.08	4.19	16.94	1.13	-103.6	"
1240	1.50	7.07	4.19	16.91	1.08	-102.4	"
1245	1.75	7.06	4.20	16.78	1.04	-100.7	"
1250	2.0	7.07	4.20	16.79	1.00	-99.1	"

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/17/10	0700	Factory cal
pH and SpC Calibration	"	"	
ORP Calibration	"	"	

Sample Collection and Analytical Information

Laboratory: Test America Denver COC Seal: _____ Date: 11/18/10 Time: 1300

Shipping Container: _____ Field Instrument(s): YSI 556 Shipped by: Fed Ex

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOC	8260	40mL VOA	HCL	3 vials
☐					
☐					
☐					
☐					
☐					
☐					

Comments: _____

Groundwater Sampling Form

Project/Site: Maverik Kirtland, NM

Well ID: MW-17

Sampler(s): JJ

Well Condition

Bump Posts: NA Visibility: ok Secured: Yes

Well Label: ok Surface Pad: ok

Fluid Level/Purge Volume Information

Date: 11/18/10 Time: 0900

Purge Method: Peristaltic Pump

Depth to water (ft): 8.47

Depth to product (ft): NA

Total depth (ft): 16.66

Water column thickness (ft): _____

One Purge Volume (gal): _____

Groundwater Field Parameters

Date: 11/18/10 Start Time: 0905

Time	Volume Evacuated (gal)	pH (SU)	SpCond. (mS/cm) or (µS/cm)	Temp. (°C)	Dis. Ox. (ppm) or (mg/L)	ORP (mV)	Sample Appearance/Description
0905	≈0.25	7.50	2.79	16.90	4.68	-264.9	clear / trace organic matter
0910	≈0.50	7.38	2.64	17.00	0.84	-261.5	"
0915	0.75	7.33	2.58	17.00	0.96	-258.6	"
0920	1.00	7.33	2.53	16.03	1.11	-258.2	"
0925	1.75	7.47	2.57	16.07	1.07	-188.8	"
0945	2.00	7.48	2.57	16.18	1.06	-186.0	"

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/17/10	0700	Factory Cal
pH and SpC Calibration	↓	↓	
ORP Calibration	↓	↓	

Sample Collection and Analytical Information

Date: 11/18/10 Time: 0945

Laboratory: Test America Denver COC Seal: _____ Shipped by: FedEx

Shipping Container: _____ Field Instrument(s): YSI 556

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOC	8260	40mL VOA	HCl	
☐					
☐					
☐					
☐					
☐					
☐					

Comments: _____

Groundwater Sampling Form

Project/Site: Maverik Kirtland, NM

Well ID: MW-18

Sampler(s): JJ

Well Condition

Bump Posts: NA Visibility: ok Secured: yes

Well Label: ok Surface Pad: ok

Fluid Level/Purge Volume Information

Date: 11/18/10 Time: 0825

Purge Method: Peristaltic Pump

Depth to water (ft): 12.18

Depth to product (ft): NM

Total depth (ft): ~~12.~~ 14.68

Water column thickness (ft): _____

One Purge Volume (gal): _____

Groundwater Field Parameters

Date: 11/18/10 Start Time: 0825

Time	Volume Evacuated (gal)	pH (SU)	SpCond. (mS/cm) or (µS/cm)	Temp. (°C)	Dis. Ox. (ppm) or (mg/L)	ORP (mV)	Sample Appearance/Description
0825	0.25	6.92	19.49	16.42	7.55	-67.2	cloudy
0830	0.75	6.82	19.79	17.47	1.25	-113.2	"

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/18/10	0700	Factory Cal
pH and SpC Calibration	"	"	
ORP Calibration	"	"	

Sample Collection and Analytical Information

Date: 11/18/10 Time: 0900

Laboratory: Test America Denver COC Seal: _____ Shipped by: Fed Ex

Shipping Container: _____ Field Instrument(s): YSI 556

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☐	VOC	8260	40mL VOA	HCl	3
☐					
☐					
☐					
☐					
☐					
☐					

Comments: Well dry x 1.0 gallon, will attempt to recover then sample collected

Groundwater Sampling Form

Project/Site: Maverik Kirtland, NM

Well ID: MW-19

Sampler(s): JJ

Well Condition

Bump Posts: NA | Visibility: ok | Secured: yes

Well Label: ok | Surface Pad: ok

Fluid Level/Purge Volume Information

Date: 11/18/10 Time: 1408

Purge Method: Peristaltic Pump

Depth to water (ft): 2.84

Depth to product (ft): _____

Total depth (ft): _____

Water column thickness (ft): _____

One Purge Volume (gal): _____

Groundwater Field Parameters

Date: _____ Start Time: 1408

Time	Volume Evacuated (gal)	pH (SU)	SpCond. (mS/cm) or (µS/cm)	Temp. (°C)	Dis. Ox. (ppm) or (mg/L)	ORP (mV)	Sample Appearance/Description
1410	0.25	7.47	1.77	15.13	5.61	-96.7	clear
1420	0.75	7.41	1.73	14.93	0.93	-100.4	"
1435	2.00	7.39	1.73	14.81	6.52	-124.6	"
1440	2.25	7.40	1.74	14.78	0.48	-125.1	"
1445	2.50	7.39	1.73	14.80	0.51	-121.1	"

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/17/10	0700	Factory Cal
pH and SpC Calibration	↓	↓	
ORP Calibration			
	↓	↓	

Sample Collection and Analytical Information

Date: 11/18/10 Time: 1445

Laboratory: Test America Denver COC Seal: _____ Shipped by: Fed Ex

Shipping Container: _____ Field Instrument(s): YSI 556

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOC	8260	40mL vial	HCL	3 vials
☐					
☐					
☐					
☐					
☐					
☐					

Comments: _____

Groundwater Sampling Form

Project/Site: Maverik Kirtland, NM

Well ID: MW-20

Sampler(s): JJ

Well Condition

Bump Posts: NA Visibility: ok Secured: yes

Well Label: ok Surface Pad: ok

Fluid Level/Purge Volume Information

Date: 11/17/10 Time: 0700

Purge Method: Peristaltic Pump

Depth to water (ft): 4.20

Depth to product (ft): N/A

Total depth (ft): 13.52

Water column thickness (ft): _____

One Purge Volume (gal): _____

Groundwater Field Parameters

Date: 11/18/10 Start Time: 0700

Time	Volume Evacuated (gal)	pH (SU)	SpCond. (mS/cm) or (µS/cm)	Temp. (°C)	Dis. Ox. (ppm) or (mg/L)	ORP (mV)	Sample Appearance/Description
0705	≈ 2	6.84	1.722	13.24	8.10	-134.1	clear
0710	≈ 6	7.37	1.705	14.12	7.95	-155.2	"
0725	1.5	7.44	1.708	14.36	8.14	-176.6	"
0735	2.0	7.49	1.703	14.76	8.31	-161.9	"
0740	2.5	7.50	1.702	14.80	8.36	-165.4	"

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/17/10	0700	Factory Cal
pH and SpC Calibration	↓	↓	
ORP Calibration	↓	↓	

Sample Collection and Analytical Information

Date: 11/18/10 Time: 0740

Laboratory: Test America Denver COC Seal: _____ Shipped by: _____

Shipping Container: _____ Field Instrument(s): _____

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	8260 VOC	8260	40 mL VOA	HCl	3
☐					
☐					
☐					
☐					
☐					
☐					

Comments: _____

Groundwater Sampling Form

Project/Site: Maverik Kirtland, NM

Well ID: MW-21

Sampler(s): JJ

Well Condition

Bump Posts: NA

Well Label: ok

Visibility: ok

Surface Pad: ok

Secured: yes

Fluid Level/Purge Volume Information

Date: 11/18/10 Time: 0740

Purge Method: Peristaltic Pump

Depth to water (ft): 5.52

Depth to product (ft): _____

Total depth (ft): _____

Water column thickness (ft): _____

One Purge Volume (gal): _____

Groundwater Field Parameters

Date: 11/18/10 Start Time: 0710

Time	Volume Evacuated (gal)	pH (SU)	SpCond. (mS/cm) or (µS/cm)	Temp. (°C)	Dis. Ox. (ppm) or (mg/L)	ORP (mV)	Sample Appearance/Description
0745	≈.5	6.77	14.97	16.33	13.62	-153.8	clear
0751	0.75	6.76	14.52	15.93	12.62	-146.7	"
757	1.00	6.77	13.83	15.45	0.96	-136.7	"
0806	1.50	6.78	13.01	14.96	0.82	-117.0	"
0815	1.75	6.77	13.02	15.19	0.62	-103.1	"

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/17/10	0700	factory cal
pH and SpC Calibration	↓	↓	
ORP Calibration	↓	↓	

Sample Collection and Analytical Information

Date: 11/18/10 Time: 0820

Laboratory: Test America Denver COC Seal: _____ Shipped by: FedEx

Shipping Container: _____ Field Instrument(s): YSI 556

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOC	8260	3 40mL	HCl	x3 (MS, MSD)
☐					
☐					
☐					
☐					
☐					
☐					

Comments: MS MSD collected here

DO meter readjusted, reading too high

Groundwater Sampling Form

Project/Site: Maverik Kirtland, NM

Well ID: MW-22
Sampler(s): JJ

Well Condition

Bump Posts: NA
Well Label: ok
Visibility: ok
Surface Pad: ok
Secured: yes

Fluid Level/Purge Volume Information

Date: 11/18/10 Time: 0945

Purge Method: Peristaltic Pump
Depth to water (ft): 7.12
Depth to product (ft): NA
Total depth (ft): 14.01
Water column thickness (ft): _____
One Purge Volume (gal): _____

Groundwater Field Parameters

Date: 11/18/10 Start Time: 0945

Time	Volume Evacuated (gal)	pH (SU)	SpCond. (mS/cm) or (µS/cm)	Temp. (°C)	Dis. Ox. (ppm) or (mg/L)	ORP (mV)	Sample Appearance/Description
0945	0.25	7.42	2.09	16.87	3.63	-209.5	clear
0955	0.75	7.39	2.08	16.84	1.21	-215.8	"
1010	1.25	7.30	2.16	16.87	1.03	-217.4	"
1015	1.50	7.31	2.18	16.90	0.98	-217.2	"
1020	2.00	7.33	2.19	16.93	1.04	-223.1	"

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/17/10	0700	Factory Cal
pH and SpC Calibration	"	"	
ORP Calibration	"	"	
	"	"	

Sample Collection and Analytical Information

Date: 11/18/10 Time: 1035

Laboratory: Test America Denver
COC Seal: _____
Shipped by: _____
Shipping Container: _____
Field Instrument(s): _____

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOC	8260	40mL VOA	HCl	
☐					
☐					
☐					
☐					
☐					
☐					

Comments: Dup collected from MW-Dup

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample ID: _____

Temperature on Receipt: _____

Cooler(s) Water? Yes ☐ No ☐

Client: _____

Project Manager: _____

Date: _____

Chain of Custody Number: 128825

Address: _____

Telephone Number (Area Code)/Fax Number: _____

Lab Number: _____

Page: 1 of 1

City: _____

State: _____

Zip Code: _____

Site Contact: _____

Lab Contact: _____

Analysis (Attach list if more space is needed)

Project Name and Location (State): _____

Carrier/Waybill Number: _____

Contract/Purchase Order/Quote No.: _____

Matrix

Containers & Preservatives

Special Instructions/ Conditions of Receipt

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix	# of cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Analysis

Possible Hazard Identification

☐ Non-hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By		Date	Time	1. Received By	Date / Time
2. Relinquished By		Date	Time	2. Received By	Date / Time
3. Relinquished By		Date	Time	3. Received By	Date / Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Attachment B

Laboratory Data and Data Validation

ANALYTICAL REPORT

Job Number: 280-10064-1

SDG Number:

Job Description: MAVERICK KIRTLAND

For:
AECOM, Inc.
1601 Prospect Parkway
Fort Collins, CO 80525

Attention: Ms. Ann Biegelsen



Approved for release.
Kae E Yoder
Project Manager II
12/7/2010 4:50 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
12/07/2010

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Table of Contents

Cover Title Page 1

Data Summaries 4

- Report Narrative 4
- Data Qualifiers 5
- Executive Summary 6
- Method Summary 8
- Method / Analyst Summary 9
- Sample Summary 10
- Sample Datasheets 11
- Surrogate Summary 31
- QC Data Summary 32
- QC Association Summary 50
- Lab Chronicle 51
- Reagent Traceability 54
- Manual Integration Summary 71

Organic Sample Data 75

- GC/MS VOA 75
  - Method 8260B 75
    - Method 8260B QC Summary 76
    - Method 8260B Sample Data 100
    - Standards Data 205
      - Method 8260B ICAL Data 205
      - Method 8260B CCAL Data 372
    - Raw QC Data 433
      - Method 8260B Tune Data 433
      - Method 8260B Blank Data 461

Table of Contents

Method 8260B LCS/LCSD Data 476
Method 8260B MS/MSD Data 490
Method 8260B Run Logs 518
Shipping and Receiving Documents 538
Client Chain of Custody 539
Sample Receipt Checklist 540

CASE NARRATIVE

Client: AECOM, Inc.

Project: MAVERICK KIRTLAND
Task Number: 60139478.210

Report Number: 280-10064-1

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/20/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.4 C.

GC/MS VOLATILES - SW846 8260B

Due to the nature of the sample matrix, a reduced aliquot size had to be used for the analysis of sample MW-18. The reporting limits have been elevated accordingly. The laboratory noted that the sample matrix was very foamy.

Methylene Chloride, a common laboratory contaminant, was detected in the method blank associated with batch 280-43492 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated samples reported a result above the MDL and/or RL, the result has been “B” flagged.

MS and MSD analysis were performed on sample MW-21, as requested (batch 280-43324). The MS and MSD exhibited spike compound recoveries outside the control limits. The LCS was within control limits.

The MS/MSD associated with batch 280-43492 exhibited spike compound recoveries outside the control limits. The LCS was within control limits.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-10064-4	**MW-18**					
sec-Butylbenzene		1.6	J	4.0	ug/L	8260B
280-10064-5	**MW-17**					
Benzene		20		1.0	ug/L	8260B
Ethylbenzene		2.8		1.0	ug/L	8260B
Isopropylbenzene		0.44	J	1.0	ug/L	8260B
4-Isopropyltoluene		0.30	J	1.0	ug/L	8260B
m-Xylene & p-Xylene		4.0		2.0	ug/L	8260B
n-Propylbenzene		0.52	J	1.0	ug/L	8260B
sec-Butylbenzene		0.63	J	1.0	ug/L	8260B
Toluene		0.18	J	1.0	ug/L	8260B
1,2,4-Trimethylbenzene		2.3		1.0	ug/L	8260B
1,3,5-Trimethylbenzene		0.36	J	1.0	ug/L	8260B
Xylenes, Total		4.0		2.0	ug/L	8260B
280-10064-6	**MW-22**					
Benzene		16		1.0	ug/L	8260B
Ethylbenzene		22		1.0	ug/L	8260B
Isopropylbenzene		5.8		1.0	ug/L	8260B
4-Isopropyltoluene		0.65	J	1.0	ug/L	8260B
Methylene Chloride		0.49	J B	2.0	ug/L	8260B
Naphthalene		1.5		1.0	ug/L	8260B
n-Propylbenzene		14		1.0	ug/L	8260B
o-Xylene		0.22	J	1.0	ug/L	8260B
sec-Butylbenzene		2.7		1.0	ug/L	8260B
Toluene		0.31	J	1.0	ug/L	8260B
1,2,4-Trimethylbenzene		12		1.0	ug/L	8260B
Xylenes, Total		0.22	J	2.0	ug/L	8260B
280-10064-8	**MW-19**					
Methylene Chloride		0.44	J B	2.0	ug/L	8260B
280-10064-9	**MW-10**					
Methylene Chloride		0.47	J B	2.0	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-10064-10	**MW-DUP**					
Benzene		16		1.0	ug/L	8260B
Ethylbenzene		22		1.0	ug/L	8260B
Isopropylbenzene		5.9		1.0	ug/L	8260B
4-Isopropyltoluene		0.66	J	1.0	ug/L	8260B
Methylene Chloride		0.45	J B	2.0	ug/L	8260B
Naphthalene		1.4		1.0	ug/L	8260B
n-Propylbenzene		14		1.0	ug/L	8260B
o-Xylene		0.21	J	1.0	ug/L	8260B
sec-Butylbenzene		3.3		1.0	ug/L	8260B
Toluene		0.29	J	1.0	ug/L	8260B
1,2,4-Trimethylbenzene		12		1.0	ug/L	8260B
Xylenes, Total		0.21	J	2.0	ug/L	8260B

METHOD SUMMARY

Client: AECOM, Inc. Job Number: 280-10064-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Method	Analyst	Analyst ID
SW846 8260B	Dobransky, Michael E	MD
SW846 8260B	Ilczyszyn, Dennis P	DPI

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 280-10064-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-10064-1	MW-09	Water	11/18/2010 1350	11/20/2010 0930
280-10064-2	MW-20	Water	11/18/2010 0740	11/20/2010 0930
280-10064-3	MW-21	Water	11/18/2010 0820	11/20/2010 0930
280-10064-3MS	MW-21	Water	11/18/2010 0820	11/20/2010 0930
280-10064-3MSD	MW-21	Water	11/18/2010 0820	11/20/2010 0930
280-10064-4	MW-18	Water	11/18/2010 0900	11/20/2010 0930
280-10064-5	MW-17	Water	11/18/2010 0945	11/20/2010 0930
280-10064-6	MW-22	Water	11/18/2010 1035	11/20/2010 0930
280-10064-7	MW-16	Water	11/18/2010 1300	11/20/2010 0930
280-10064-8	MW-19	Water	11/18/2010 1445	11/20/2010 0930
280-10064-9	MW-10	Water	11/18/2010 1530	11/20/2010 0930
280-10064-10	MW-DUP	Water	11/18/2010 0000	11/20/2010 0930

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-09**

Lab Sample ID: 280-10064-1
Client Matrix: Water

Date Sampled: 11/18/2010 1350
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-43324	Instrument ID: MSV_MS1
Preparation:	5030B		Lab File ID: ms7246.D
Dilution:	1.0		Initial Weight/Volume: 20 mL
Date Analyzed:	12/01/2010 1719		Final Weight/Volume: 20 mL
Date Prepared:	12/01/2010 1719		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-09**

Lab Sample ID: 280-10064-1
Client Matrix: Water

Date Sampled: 11/18/2010 1350
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-43324	Instrument ID:	MSV_MS1	
Preparation:	5030B		Lab File ID:	ms7246.D	
Dilution:	1.0		Initial Weight/Volume:	20	mL
Date Analyzed:	12/01/2010 1719		Final Weight/Volume:	20	mL
Date Prepared:	12/01/2010 1719				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	90		77 - 120
1,2-Dichloroethane-d4 (Surr)	94		70 - 127
Toluene-d8 (Surr)	100		80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-20**

Lab Sample ID: 280-10064-2
Client Matrix: Water

Date Sampled: 11/18/2010 0740
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/01/2010 1739
Date Prepared: 12/01/2010 1739

Analysis Batch: 280-43324

Instrument ID: MSV_MS1
Lab File ID: ms7247.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-20**

Lab Sample ID: 280-10064-2
Client Matrix: Water

Date Sampled: 11/18/2010 0740
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-43324	Instrument ID: MSV_MS1
Preparation:	5030B		Lab File ID: ms7247.D
Dilution:	1.0		Initial Weight/Volume: 20 mL
Date Analyzed:	12/01/2010 1739		Final Weight/Volume: 20 mL
Date Prepared:	12/01/2010 1739		

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120
1,2-Dichloroethane-d4 (Surr)	92		70 - 127
Toluene-d8 (Surr)	101		80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-21**

Lab Sample ID: 280-10064-3
Client Matrix: Water

Date Sampled: 11/18/2010 0820
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/01/2010 1130
Date Prepared: 12/01/2010 1130

Analysis Batch: 280-43324

Instrument ID: MSV_MS1
Lab File ID: ms7229.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-21**

Lab Sample ID: 280-10064-3
Client Matrix: Water

Date Sampled: 11/18/2010 0820
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-43324	Instrument ID:	MSV_MS1	
Preparation:	5030B		Lab File ID:	ms7229.D	
Dilution:	1.0		Initial Weight/Volume:	20	mL
Date Analyzed:	12/01/2010 1130		Final Weight/Volume:	20	mL
Date Prepared:	12/01/2010 1130				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	95		77 - 120
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	106		80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-18**

Lab Sample ID: 280-10064-4
Client Matrix: Water

Date Sampled: 11/18/2010 0900
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/01/2010 1759
Date Prepared: 12/01/2010 1759

Analysis Batch: 280-43324

Instrument ID: MSV_MS1
Lab File ID: ms7248.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.6	U	7.6	40
Benzene	0.64	U	0.64	4.0
Bromobenzene	0.68	U	0.68	4.0
Bromodichloromethane	0.68	U	0.68	4.0
Bromoform	0.76	U	0.76	4.0
Bromomethane	0.84	U	0.84	8.0
2-Butanone (MEK)	8.0	U	8.0	24
Carbon tetrachloride	0.76	U	0.76	4.0
Chlorobenzene	0.68	U	0.68	4.0
Bromochloromethane	0.40	U	0.40	4.0
Dibromochloromethane	0.68	U	0.68	4.0
Chloroethane	1.6	U	1.6	8.0
Chloroform	0.64	U	0.64	4.0
Chloromethane	1.2	U	1.2	8.0
2-Chlorotoluene	0.68	U	0.68	4.0
4-Chlorotoluene	0.84	U	0.84	4.0
cis-1,2-Dichloroethene	0.60	U	0.60	4.0
cis-1,3-Dichloropropene	0.64	U	0.64	4.0
1,2-Dibromo-3-Chloropropane	1.9	U	1.9	20
1,2-Dibromoethane (EDB)	0.72	U	0.72	4.0
Dibromomethane	0.68	U	0.68	4.0
1,2-Dichlorobenzene	0.60	U	0.60	4.0
1,3-Dichlorobenzene	0.52	U	0.52	4.0
1,4-Dichlorobenzene	0.64	U	0.64	4.0
Dichlorodifluoromethane	1.2	U	1.2	8.0
1,1-Dichloroethane	0.88	U	0.88	4.0
1,2-Dichloroethane	0.52	U	0.52	4.0
1,1-Dichloroethene	0.92	U	0.92	4.0
1,2-Dichloroethene, Total	0.96	U	0.96	4.0
1,2-Dichloropropane	0.72	U	0.72	4.0
1,3-Dichloropropane	0.88	U	0.88	4.0
2,2-Dichloropropane	0.72	U	0.72	4.0
1,1-Dichloropropene	0.76	U	0.76	4.0
Ethylbenzene	0.64	U	0.64	4.0
Hexachlorobutadiene	0.48	U	0.48	4.0
2-Hexanone	6.8	U	6.8	20
Isopropylbenzene	0.76	U	0.76	4.0
4-Isopropyltoluene	0.80	U	0.80	4.0
Methylene Chloride	1.3	U	1.3	8.0
4-Methyl-2-pentanone	3.9	U	3.9	20
Methyl tert-butyl ether	1.0	U	1.0	20
m-Xylene & p-Xylene	1.4	U	1.4	8.0
Naphthalene	0.88	U	0.88	4.0
n-Butylbenzene	0.56	U	0.56	4.0
n-Propylbenzene	0.64	U	0.64	4.0
o-Xylene	0.76	U	0.76	4.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-18**

Lab Sample ID: 280-10064-4
Client Matrix: Water

Date Sampled: 11/18/2010 0900
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-43324	Instrument ID: MSV_MS1
Preparation:	5030B		Lab File ID: ms7248.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	12/01/2010 1759		Final Weight/Volume: 20 mL
Date Prepared:	12/01/2010 1759		

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	1.6	J	0.68	4.0
Styrene	0.68	U	0.68	4.0
tert-Butylbenzene	0.64	U	0.64	4.0
1,1,1,2-Tetrachloroethane	0.84	U	0.84	4.0
1,1,2,2-Tetrachloroethane	0.84	U	0.84	4.0
Tetrachloroethene	0.80	U	0.80	4.0
Toluene	0.68	U	0.68	4.0
trans-1,2-Dichloroethene	0.60	U	0.60	4.0
trans-1,3-Dichloropropene	0.76	U	0.76	12
1,2,3-Trichlorobenzene	0.84	U	0.84	4.0
1,2,4-Trichlorobenzene	0.84	U	0.84	4.0
1,1,1-Trichloroethane	0.64	U	0.64	4.0
1,1,2-Trichloroethane	1.1	U	1.1	4.0
Trichloroethene	0.64	U	0.64	4.0
Trichlorofluoromethane	1.2	U	1.2	8.0
1,2,3-Trichloropropane	1.3	U	1.3	10
1,2,4-Trimethylbenzene	0.60	U	0.60	4.0
1,3,5-Trimethylbenzene	0.64	U	0.64	4.0
Vinyl chloride	1.6	U	1.6	4.0
Xylenes, Total	0.76	U	0.76	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	88		77 - 120
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	98		80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-17**

Lab Sample ID: 280-10064-5
Client Matrix: Water

Date Sampled: 11/18/2010 0945
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/01/2010 2256
Date Prepared: 12/01/2010 2256

Analysis Batch: 280-43492

Instrument ID: MSV_G2
Lab File ID: g2_7883.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	20		0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	2.8		0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.44	J	0.19	1.0
4-Isopropyltoluene	0.30	J	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	4.0		0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.52	J	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-17**

Lab Sample ID: 280-10064-5
Client Matrix: Water

Date Sampled: 11/18/2010 0945
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-43492	Instrument ID: MSV_G2
Preparation:	5030B		Lab File ID: g2_7883.D
Dilution:	1.0		Initial Weight/Volume: 20 mL
Date Analyzed:	12/01/2010 2256		Final Weight/Volume: 20 mL
Date Prepared:	12/01/2010 2256		

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.63	J	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.18	J	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	2.3		0.15	1.0
1,3,5-Trimethylbenzene	0.36	J	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	4.0		0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	83		77 - 120
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	101		80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-22**

Lab Sample ID: 280-10064-6
Client Matrix: Water

Date Sampled: 11/18/2010 1035
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/01/2010 2315
Date Prepared: 12/01/2010 2315

Analysis Batch: 280-43492

Instrument ID: MSV_G2
Lab File ID: g2_7884.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	16		0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	22		0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	5.8		0.19	1.0
4-Isopropyltoluene	0.65	J	0.20	1.0
Methylene Chloride	0.49	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	1.5		0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	14		0.16	1.0
o-Xylene	0.22	J	0.19	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-22**

Lab Sample ID: 280-10064-6
Client Matrix: Water

Date Sampled: 11/18/2010 1035
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-43492	Instrument ID: MSV_G2
Preparation:	5030B		Lab File ID: g2_7884.D
Dilution:	1.0		Initial Weight/Volume: 20 mL
Date Analyzed:	12/01/2010 2315		Final Weight/Volume: 20 mL
Date Prepared:	12/01/2010 2315		

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	2.7		0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.31	J	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	12		0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	0.22	J	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	91		77 - 120
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	105		80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-16**

Lab Sample ID: 280-10064-7
Client Matrix: Water

Date Sampled: 11/18/2010 1300
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/01/2010 2335
Date Prepared: 12/01/2010 2335

Analysis Batch: 280-43492

Instrument ID: MSV_G2
Lab File ID: g2_7885.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-16**

Lab Sample ID: 280-10064-7
Client Matrix: Water

Date Sampled: 11/18/2010 1300
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/01/2010 2335
Date Prepared: 12/01/2010 2335

Analysis Batch: 280-43492

Instrument ID: MSV_G2
Lab File ID: g2_7885.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	85		78 - 120
Dibromofluoromethane (Surr)	86		77 - 120
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	95		80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-19**

Lab Sample ID: 280-10064-8
Client Matrix: Water

Date Sampled: 11/18/2010 1445
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/01/2010 2354
Date Prepared: 12/01/2010 2354

Analysis Batch: 280-43492

Instrument ID: MSV_G2
Lab File ID: g2_7886.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.44	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-19**

Lab Sample ID: 280-10064-8
Client Matrix: Water

Date Sampled: 11/18/2010 1445
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-43492	Instrument ID:	MSV_G2	
Preparation:	5030B		Lab File ID:	g2_7886.D	
Dilution:	1.0		Initial Weight/Volume:	20	mL
Date Analyzed:	12/01/2010 2354		Final Weight/Volume:	20	mL
Date Prepared:	12/01/2010 2354				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	86		78 - 120
Dibromofluoromethane (Surr)	85		77 - 120
1,2-Dichloroethane-d4 (Surr)	97		70 - 127
Toluene-d8 (Surr)	98		80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-10**

Lab Sample ID: 280-10064-9
Client Matrix: Water

Date Sampled: 11/18/2010 1530
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/02/2010 0013
Date Prepared: 12/02/2010 0013

Analysis Batch: 280-43492

Instrument ID: MSV_G2
Lab File ID: g2_7887.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.47	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-10**

Lab Sample ID: 280-10064-9
Client Matrix: Water

Date Sampled: 11/18/2010 1530
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-43492	Instrument ID: MSV_G2
Preparation:	5030B		Lab File ID: g2_7887.D
Dilution:	1.0		Initial Weight/Volume: 20 mL
Date Analyzed:	12/02/2010 0013		Final Weight/Volume: 20 mL
Date Prepared:	12/02/2010 0013		

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	89		78 - 120
Dibromofluoromethane (Surr)	90		77 - 120
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	93		80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-DUP**

Lab Sample ID: 280-10064-10
Client Matrix: Water

Date Sampled: 11/18/2010 0000
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/02/2010 0033
Date Prepared: 12/02/2010 0033

Analysis Batch: 280-43492

Instrument ID: MSV_G2
Lab File ID: g2_7888.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	16		0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	22		0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	5.9		0.19	1.0
4-Isopropyltoluene	0.66	J	0.20	1.0
Methylene Chloride	0.45	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	1.4		0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	14		0.16	1.0
o-Xylene	0.21	J	0.19	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Client Sample ID: **MW-DUP**

Lab Sample ID: 280-10064-10
Client Matrix: Water

Date Sampled: 11/18/2010 0000
Date Received: 11/20/2010 0930

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-43492	Instrument ID: MSV_G2
Preparation:	5030B		Lab File ID: g2_7888.D
Dilution:	1.0		Initial Weight/Volume: 20 mL
Date Analyzed:	12/02/2010 0033		Final Weight/Volume: 20 mL
Date Prepared:	12/02/2010 0033		

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	3.3		0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.29	J	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	12		0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	0.21	J	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	88		77 - 120
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
Toluene-d8 (Surr)	105		80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-10064-1	MW-09	90	94	100	92
280-10064-2	MW-20	89	92	101	92
280-10064-3	MW-21	95	103	106	101
280-10064-4	MW-18	88	93	98	92
280-10064-5	MW-17	83	98	101	94
280-10064-6	MW-22	91	103	105	103
280-10064-7	MW-16	86	98	95	85
280-10064-8	MW-19	85	97	98	86
280-10064-9	MW-10	90	96	93	89
280-10064-10	MW-DUP	88	106	105	96
MB 280-43324/4		92	101	103	95
MB 280-43492/5		82	100	98	82
LCS 280-43324/5		95	101	104	102
LCS 280-43492/4		83	98	100	84
280-10064-3 MS	MW-21 MS	91	95	96	91
280-10042-I-6 MS		84	96	99	83
280-10064-3 MSD	MW-21 MSD	98	100	103	99
280-10042-I-6 MSD		84	98	99	82

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Method Blank - Batch: 280-43324

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-43324/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 0724
Date Prepared: 12/01/2010 0724

Analysis Batch: 280-43324
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_MS1
Lab File ID: ms7217.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Method Blank - Batch: 280-43324

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-43324/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 0724
Date Prepared: 12/01/2010 0724

Analysis Batch: 280-43324
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_MS1
Lab File ID: ms7217.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	MDL	RL
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	78 - 120
Dibromofluoromethane (Surr)	92	77 - 120
1,2-Dichloroethane-d4 (Surr)	101	70 - 127
Toluene-d8 (Surr)	103	80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Lab Control Sample - Batch: 280-43324

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 280-43324/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 0744
Date Prepared: 12/01/2010 0744

Analysis Batch: 280-43324
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_MS1
Lab File ID: ms7218.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	20.0	19.6	98	48 - 130	
Benzene	5.00	5.23	105	77 - 120	
Bromobenzene	5.00	4.54	91	75 - 120	
Bromodichloromethane	5.00	4.85	97	78 - 120	
Bromoform	5.00	3.70	74	74 - 121	
Bromomethane	5.00	4.38	88	42 - 154	
2-Butanone (MEK)	20.0	21.3	107	57 - 120	
Carbon tetrachloride	5.00	4.52	90	80 - 120	
Chlorobenzene	5.00	4.51	90	78 - 120	
Bromochloromethane	5.00	4.61	92	78 - 120	
Dibromochloromethane	5.00	4.23	85	76 - 120	
Chloroethane	5.00	4.89	98	51 - 133	
Chloroform	5.00	4.98	100	78 - 120	
Chloromethane	5.00	3.81	76	46 - 142	
2-Chlorotoluene	5.00	4.60	92	76 - 120	
4-Chlorotoluene	5.00	4.60	92	78 - 120	
cis-1,2-Dichloroethene	5.00	5.00	100	75 - 120	
cis-1,3-Dichloropropene	5.00	4.79	96	76 - 120	
1,2-Dibromo-3-Chloropropane	5.00	3.93	79	65 - 120	J
1,2-Dibromoethane (EDB)	5.00	4.70	94	77 - 120	
Dibromomethane	5.00	4.69	94	77 - 120	
1,2-Dichlorobenzene	5.00	4.61	92	76 - 120	
1,3-Dichlorobenzene	5.00	4.62	92	75 - 120	
1,4-Dichlorobenzene	5.00	4.53	91	77 - 120	
Dichlorodifluoromethane	5.00	4.84	97	56 - 140	
1,1-Dichloroethane	5.00	5.26	105	77 - 120	
1,2-Dichloroethane	5.00	4.98	100	74 - 120	
1,1-Dichloroethene	5.00	5.12	102	68 - 133	
1,2-Dichloroethene, Total	10.0	10.2	102	78 - 120	
1,2-Dichloropropane	5.00	5.36	107	76 - 120	
1,3-Dichloropropane	5.00	4.93	99	75 - 120	
2,2-Dichloropropane	5.00	4.09	82	72 - 128	
1,1-Dichloropropene	5.00	5.23	105	75 - 120	
Ethylbenzene	5.00	4.77	95	78 - 120	
Hexachlorobutadiene	5.00	4.15	83	73 - 123	
2-Hexanone	20.0	20.7	104	57 - 121	
Isopropylbenzene	5.00	5.63	113	71 - 120	
4-Isopropyltoluene	5.00	4.98	100	76 - 120	
Methylene Chloride	5.00	4.87	97	60 - 134	
4-Methyl-2-pentanone	20.0	23.0	115	65 - 120	
Methyl tert-butyl ether	5.00	3.85	77	58 - 120	J
m-Xylene & p-Xylene	10.0	9.58	96	78 - 120	
Naphthalene	5.00	3.89	78	62 - 121	
n-Butylbenzene	5.00	5.30	106	76 - 120	

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Lab Control Sample - Batch: 280-43324

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-43324/5	Analysis Batch:	280-43324	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms7218.D
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 0744			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 0744				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
n-Propylbenzene	5.00	4.77	95	76 - 120	
o-Xylene	5.00	4.87	97	77 - 120	
sec-Butylbenzene	5.00	4.78	96	80 - 120	
Styrene	5.00	4.61	92	77 - 120	
tert-Butylbenzene	5.00	5.05	101	76 - 120	
1,1,1,2-Tetrachloroethane	5.00	4.17	83	77 - 120	
1,1,2,2-Tetrachloroethane	5.00	4.97	99	73 - 120	
Tetrachloroethene	5.00	4.26	85	77 - 120	
Toluene	5.00	5.12	102	73 - 120	
trans-1,2-Dichloroethene	5.00	5.17	103	80 - 120	
trans-1,3-Dichloropropene	5.00	4.67	93	72 - 120	
1,2,3-Trichlorobenzene	5.00	4.08	82	66 - 123	
1,2,4-Trichlorobenzene	5.00	4.15	83	73 - 121	
1,1,1-Trichloroethane	5.00	4.79	96	78 - 120	
1,1,2-Trichloroethane	5.00	4.94	99	76 - 120	
Trichloroethene	5.00	4.45	89	78 - 122	
Trichlorofluoromethane	5.00	4.51	90	63 - 135	
1,2,3-Trichloropropane	5.00	5.02	100	72 - 120	
1,2,4-Trimethylbenzene	5.00	5.05	101	77 - 120	
1,3,5-Trimethylbenzene	5.00	5.14	103	77 - 120	
Vinyl chloride	5.00	4.16	83	49 - 136	
Xylenes, Total	15.0	14.5	96	77 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	102	78 - 120
Dibromofluoromethane (Surr)	95	77 - 120
1,2-Dichloroethane-d4 (Surr)	101	70 - 127
Toluene-d8 (Surr)	104	80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-43324

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-10064-3	Analysis Batch:	280-43324	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms7230.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1151			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1151				

MSD Lab Sample ID:	280-10064-3	Analysis Batch:	280-43324	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms7231.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1211			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1211				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	87	97	48 - 130	11	41		
Benzene	98	100	77 - 120	3	20		
Bromobenzene	83	88	75 - 120	6	20		
Bromodichloromethane	91	94	78 - 120	3	20		
Bromoform	73	77	74 - 121	5	21	F	
Bromomethane	75	81	42 - 154	8	24		
2-Butanone (MEK)	103	113	57 - 120	9	32		
Carbon tetrachloride	79	82	80 - 120	4	21	F	
Chlorobenzene	86	88	78 - 120	2	20		
Bromochloromethane	95	97	78 - 120	3	20		
Dibromochloromethane	84	87	76 - 120	3	20		
Chloroethane	86	93	51 - 133	7	25		
Chloroform	91	95	78 - 120	4	20		
Chloromethane	58	61	46 - 142	6	24		
2-Chlorotoluene	79	83	76 - 120	4	20		
4-Chlorotoluene	83	86	78 - 120	4	20		
cis-1,2-Dichloroethene	96	100	75 - 120	4	20		
cis-1,3-Dichloropropene	89	94	76 - 120	6	20		
1,2-Dibromo-3-Chloropropane	76	80	65 - 120	5	22	J	J
1,2-Dibromoethane (EDB)	94	96	77 - 120	3	20		
Dibromomethane	93	97	77 - 120	4	20		
1,2-Dichlorobenzene	85	90	76 - 120	6	20		
1,3-Dichlorobenzene	83	87	75 - 120	4	20		
1,4-Dichlorobenzene	84	88	77 - 120	5	23		
Dichlorodifluoromethane	84	91	56 - 140	7	24		
1,1-Dichloroethane	95	100	77 - 120	5	21		
1,2-Dichloroethane	95	98	74 - 120	3	20		
1,1-Dichloroethene	95	98	68 - 133	3	20		
1,2-Dichloroethene, Total	96	100	78 - 120	4	20		
1,2-Dichloropropane	102	105	76 - 120	3	20		
1,3-Dichloropropane	95	102	75 - 120	7	20		
2,2-Dichloropropane	75	76	72 - 128	1	24		

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-43324

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-10064-3	Analysis Batch:	280-43324	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms7230.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1151			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1151				

MSD Lab Sample ID:	280-10064-3	Analysis Batch:	280-43324	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms7231.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1211			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1211				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloropropene	96	99	75 - 120	3	21		
Ethylbenzene	88	91	78 - 120	4	26		
Hexachlorobutadiene	74	76	73 - 123	3	25		
2-Hexanone	101	113	57 - 121	12	25		
Isopropylbenzene	95	99	71 - 120	4	20		
4-Isopropyltoluene	85	88	76 - 120	4	20		
Methylene Chloride	91	94	60 - 134	3	20		
4-Methyl-2-pentanone	109	122	65 - 120	11	22		F
Methyl tert-butyl ether	86	87	58 - 120	2	21	J	J
m-Xylene & p-Xylene	88	91	78 - 120	3	20		
Naphthalene	83	88	62 - 121	5	32		
n-Butylbenzene	88	90	76 - 120	3	21		
n-Propylbenzene	81	85	76 - 120	5	20		
o-Xylene	89	92	77 - 120	3	20		
sec-Butylbenzene	80	85	80 - 120	6	21		
Styrene	90	91	77 - 120	1	20		
tert-Butylbenzene	85	90	76 - 120	5	21		
1,1,1,2-Tetrachloroethane	77	81	77 - 120	5	20		
1,1,2,2-Tetrachloroethane	91	97	73 - 120	6	20		
Tetrachloroethene	81	83	77 - 120	4	20		
Toluene	97	99	73 - 120	2	20		
trans-1,2-Dichloroethene	95	100	80 - 120	4	24		
trans-1,3-Dichloropropene	96	96	72 - 120	0	20		
1,2,3-Trichlorobenzene	84	89	66 - 123	6	29		
1,2,4-Trichlorobenzene	82	88	73 - 121	7	25		
1,1,1-Trichloroethane	85	88	78 - 120	4	20		
1,1,2-Trichloroethane	102	104	76 - 120	2	21		
Trichloroethene	86	89	78 - 122	3	20		
Trichlorofluoromethane	74	79	63 - 135	6	20		
1,2,3-Trichloropropane	94	99	72 - 120	5	23		
1,2,4-Trimethylbenzene	86	91	77 - 120	5	20		
1,3,5-Trimethylbenzene	87	91	77 - 120	5	20		

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-43324

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-10064-3	Analysis Batch:	280-43324	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms7230.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1151			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1151				

MSD Lab Sample ID:	280-10064-3	Analysis Batch:	280-43324	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms7231.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1211			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1211				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl chloride	67	72	49 - 136	8	24		
Xylenes, Total	88	91	77 - 120	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	99	78 - 120
Dibromofluoromethane (Surr)	91	98	77 - 120
1,2-Dichloroethane-d4 (Surr)	95	100	70 - 127
Toluene-d8 (Surr)	96	103	80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-43324

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-10064-3	Units: ug/L	MSD Lab Sample ID:	280-10064-3	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	12/01/2010 1151		Date Analyzed:	12/01/2010 1211	
Date Prepared:	12/01/2010 1151		Date Prepared:	12/01/2010 1211	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acetone	1.9	U	20.0	20.0	17.4		19.4	
Benzene	0.16	U	5.00	5.00	4.89		5.02	
Bromobenzene	0.17	U	5.00	5.00	4.15		4.41	
Bromodichloromethane	0.17	U	5.00	5.00	4.56		4.69	
Bromoform	0.19	U	5.00	5.00	3.65	F	3.83	
Bromomethane	0.21	U	5.00	5.00	3.73		4.03	
2-Butanone (MEK)	2.0	U	20.0	20.0	20.5		22.5	
Carbon tetrachloride	0.19	U	5.00	5.00	3.93	F	4.09	
Chlorobenzene	0.17	U	5.00	5.00	4.31		4.41	
Bromochloromethane	0.10	U	5.00	5.00	4.73		4.85	
Dibromochloromethane	0.17	U	5.00	5.00	4.19		4.33	
Chloroethane	0.41	U	5.00	5.00	4.31		4.63	
Chloroform	0.16	U	5.00	5.00	4.55		4.76	
Chloromethane	0.30	U	5.00	5.00	2.88		3.05	
2-Chlorotoluene	0.17	U	5.00	5.00	3.96		4.14	
4-Chlorotoluene	0.21	U	5.00	5.00	4.15		4.30	
cis-1,2-Dichloroethene	0.15	U	5.00	5.00	4.80		4.99	
cis-1,3-Dichloropropene	0.16	U	5.00	5.00	4.46		4.72	
1,2-Dibromo-3-Chloropropane	0.47	U	5.00	5.00	3.80	J	3.99	J
1,2-Dibromoethane (EDB)	0.18	U	5.00	5.00	4.68		4.82	
Dibromomethane	0.17	U	5.00	5.00	4.66		4.83	
1,2-Dichlorobenzene	0.15	U	5.00	5.00	4.23		4.48	
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.17		4.34	
1,4-Dichlorobenzene	0.16	U	5.00	5.00	4.19		4.41	
Dichlorodifluoromethane	0.31	U	5.00	5.00	4.21		4.53	
1,1-Dichloroethane	0.22	U	5.00	5.00	4.75		5.00	
1,2-Dichloroethane	0.13	U	5.00	5.00	4.73		4.88	
1,1-Dichloroethene	0.23	U	5.00	5.00	4.75		4.90	
1,2-Dichloroethene, Total	0.24	U	10.0	10.0	9.58		9.97	
1,2-Dichloropropane	0.18	U	5.00	5.00	5.11		5.26	
1,3-Dichloropropane	0.22	U	5.00	5.00	4.74		5.09	
2,2-Dichloropropane	0.18	U	5.00	5.00	3.77		3.80	
1,1-Dichloropropene	0.19	U	5.00	5.00	4.78		4.93	
Ethylbenzene	0.16	U	5.00	5.00	4.38		4.54	
Hexachlorobutadiene	0.12	U	5.00	5.00	3.69		3.80	
2-Hexanone	1.7	U	20.0	20.0	20.1		22.6	
Isopropylbenzene	0.19	U	5.00	5.00	4.73		4.94	
4-Isopropyltoluene	0.20	U	5.00	5.00	4.24		4.41	
Methylene Chloride	0.32	U	5.00	5.00	4.55		4.68	
4-Methyl-2-pentanone	0.98	U	20.0	20.0	21.8		24.4	F
Methyl tert-butyl ether	0.25	U	5.00	5.00	4.28	J	4.37	J

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-43324

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-10064-3	Units: ug/L	MSD Lab Sample ID:	280-10064-3	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	12/01/2010 1151		Date Analyzed:	12/01/2010 1211	
Date Prepared:	12/01/2010 1151		Date Prepared:	12/01/2010 1211	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
m-Xylene & p-Xylene	0.34	U	10.0	10.0	8.80	9.05
Naphthalene	0.22	U	5.00	5.00	4.16	4.38
n-Butylbenzene	0.14	U	5.00	5.00	4.39	4.51
n-Propylbenzene	0.16	U	5.00	5.00	4.04	4.25
o-Xylene	0.19	U	5.00	5.00	4.44	4.59
sec-Butylbenzene	0.17	U	5.00	5.00	4.00	4.23
Styrene	0.17	U	5.00	5.00	4.49	4.53
tert-Butylbenzene	0.16	U	5.00	5.00	4.27	4.48
1,1,1,2-Tetrachloroethane	0.21	U	5.00	5.00	3.84	4.06
1,1,2,2-Tetrachloroethane	0.21	U	5.00	5.00	4.57	4.84
Tetrachloroethene	0.20	U	5.00	5.00	4.03	4.17
Toluene	0.17	U	5.00	5.00	4.84	4.94
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	4.77	4.98
trans-1,3-Dichloropropene	0.19	U	5.00	5.00	4.79	4.81
1,2,3-Trichlorobenzene	0.21	U	5.00	5.00	4.22	4.47
1,2,4-Trichlorobenzene	0.21	U	5.00	5.00	4.08	4.38
1,1,1-Trichloroethane	0.16	U	5.00	5.00	4.23	4.39
1,1,2-Trichloroethane	0.27	U	5.00	5.00	5.11	5.22
Trichloroethene	0.16	U	5.00	5.00	4.31	4.43
Trichlorofluoromethane	0.29	U	5.00	5.00	3.69	3.93
1,2,3-Trichloropropane	0.33	U	5.00	5.00	4.71	4.97
1,2,4-Trimethylbenzene	0.15	U	5.00	5.00	4.32	4.53
1,3,5-Trimethylbenzene	0.16	U	5.00	5.00	4.33	4.54
Vinyl chloride	0.40	U	5.00	5.00	3.34	3.61
Xylenes, Total	0.19	U	15.0	15.0	13.2	13.6

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Method Blank - Batch: 280-43492

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-43492/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 1823
Date Prepared: 12/01/2010 1823

Analysis Batch: 280-43492
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_G2
Lab File ID: g2_7869.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.455	J	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Method Blank - Batch: 280-43492

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-43492/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 1823
Date Prepared: 12/01/2010 1823

Analysis Batch: 280-43492
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_G2
Lab File ID: g2_7869.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	MDL	RL
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.40	U	0.40	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	82	78 - 120
Dibromofluoromethane (Surr)	82	77 - 120
1,2-Dichloroethane-d4 (Surr)	100	70 - 127
Toluene-d8 (Surr)	98	80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Lab Control Sample - Batch: 280-43492

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 280-43492/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 1744
Date Prepared: 12/01/2010 1744

Analysis Batch: 280-43492
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_G2
Lab File ID: g2_7867.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	20.0	19.6	98	48 - 130	
Benzene	5.00	4.50	90	77 - 120	
Bromobenzene	5.00	4.61	92	75 - 120	
Bromodichloromethane	5.00	4.12	82	78 - 120	
Bromoform	5.00	3.96	79	74 - 121	
Bromomethane	5.00	3.93	79	42 - 154	
2-Butanone (MEK)	20.0	17.9	90	57 - 120	
Carbon tetrachloride	5.00	4.46	89	80 - 120	
Chlorobenzene	5.00	4.54	91	78 - 120	
Bromochloromethane	5.00	4.46	89	78 - 120	
Dibromochloromethane	5.00	4.13	83	76 - 120	
Chloroethane	5.00	4.10	82	51 - 133	
Chloroform	5.00	4.27	85	78 - 120	
Chloromethane	5.00	4.27	85	46 - 142	
2-Chlorotoluene	5.00	4.50	90	76 - 120	
4-Chlorotoluene	5.00	4.54	91	78 - 120	
cis-1,2-Dichloroethene	5.00	4.23	85	75 - 120	
cis-1,3-Dichloropropene	5.00	4.23	85	76 - 120	
1,2-Dibromo-3-Chloropropane	5.00	3.53	71	65 - 120	J
1,2-Dibromoethane (EDB)	5.00	4.20	84	77 - 120	
Dibromomethane	5.00	4.26	85	77 - 120	
1,2-Dichlorobenzene	5.00	4.46	89	76 - 120	
1,3-Dichlorobenzene	5.00	4.56	91	75 - 120	
1,4-Dichlorobenzene	5.00	4.61	92	77 - 120	
Dichlorodifluoromethane	5.00	4.37	87	56 - 140	
1,1-Dichloroethane	5.00	4.39	88	77 - 120	
1,2-Dichloroethane	5.00	4.56	91	74 - 120	
1,1-Dichloroethene	5.00	4.86	97	68 - 133	
1,2-Dichloroethene, Total	10.0	8.91	89	78 - 120	
1,2-Dichloropropane	5.00	4.34	87	76 - 120	
1,3-Dichloropropane	5.00	4.45	89	75 - 120	
2,2-Dichloropropane	5.00	4.60	92	72 - 128	
1,1-Dichloropropene	5.00	4.62	92	75 - 120	
Ethylbenzene	5.00	4.50	90	78 - 120	
Hexachlorobutadiene	5.00	4.89	98	73 - 123	
2-Hexanone	20.0	17.5	88	57 - 121	
Isopropylbenzene	5.00	4.96	99	71 - 120	
4-Isopropyltoluene	5.00	4.50	90	76 - 120	
Methylene Chloride	5.00	5.08	102	60 - 134	
4-Methyl-2-pentanone	20.0	18.4	92	65 - 120	
Methyl tert-butyl ether	5.00	2.97	59	58 - 120	J
m-Xylene & p-Xylene	10.0	8.96	90	78 - 120	
Naphthalene	5.00	3.97	79	62 - 121	
n-Butylbenzene	5.00	4.43	89	76 - 120	

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Lab Control Sample - Batch: 280-43492

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 280-43492/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2010 1744
Date Prepared: 12/01/2010 1744

Analysis Batch: 280-43492
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_G2
Lab File ID: g2_7867.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
n-Propylbenzene	5.00	4.42	88	76 - 120	
o-Xylene	5.00	4.31	86	77 - 120	
sec-Butylbenzene	5.00	4.51	90	80 - 120	
Styrene	5.00	4.26	85	77 - 120	
tert-Butylbenzene	5.00	4.60	92	76 - 120	
1,1,1,2-Tetrachloroethane	5.00	4.13	83	77 - 120	
1,1,2,2-Tetrachloroethane	5.00	4.10	82	73 - 120	
Tetrachloroethene	5.00	4.91	98	77 - 120	
Toluene	5.00	4.61	92	73 - 120	
trans-1,2-Dichloroethene	5.00	4.69	94	80 - 120	
trans-1,3-Dichloropropene	5.00	4.18	84	72 - 120	
1,2,3-Trichlorobenzene	5.00	4.44	89	66 - 123	
1,2,4-Trichlorobenzene	5.00	4.60	92	73 - 121	
1,1,1-Trichloroethane	5.00	4.47	89	78 - 120	
1,1,2-Trichloroethane	5.00	4.41	88	76 - 120	
Trichloroethene	5.00	4.63	93	78 - 122	
Trichlorofluoromethane	5.00	4.18	84	63 - 135	
1,2,3-Trichloropropane	5.00	4.26	85	72 - 120	
1,2,4-Trimethylbenzene	5.00	4.48	90	77 - 120	
1,3,5-Trimethylbenzene	5.00	4.53	91	77 - 120	
Vinyl chloride	5.00	4.03	81	49 - 136	
Xylenes, Total	15.0	13.3	88	77 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	84	78 - 120
Dibromofluoromethane (Surr)	83	77 - 120
1,2-Dichloroethane-d4 (Surr)	98	70 - 127
Toluene-d8 (Surr)	100	80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-43492

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-10042-I-6 MS	Analysis Batch:	280-43492	Instrument ID:	MSV_G2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	g2_7872.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1921			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1921				

MSD Lab Sample ID:	280-10042-I-6 MSD	Analysis Batch:	280-43492	Instrument ID:	MSV_G2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	g2_7873.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1941			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1941				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	101	103	48 - 130	2	41		
Benzene	92	92	77 - 120	0	20		
Bromobenzene	92	93	75 - 120	1	20		
Bromodichloromethane	80	82	78 - 120	2	20		
Bromoform	74	77	74 - 121	3	21		
Bromomethane	93	88	42 - 154	6	24		
2-Butanone (MEK)	84	91	57 - 120	8	32		
Carbon tetrachloride	95	91	80 - 120	4	21		
Chlorobenzene	92	92	78 - 120	0	20		
Bromochloromethane	92	90	78 - 120	2	20		
Dibromochloromethane	78	81	76 - 120	4	20		
Chloroethane	96	91	51 - 133	5	25		
Chloroform	89	87	78 - 120	2	20		
Chloromethane	94	86	46 - 142	8	24		
2-Chlorotoluene	93	91	76 - 120	1	20		
4-Chlorotoluene	93	91	78 - 120	2	20		
cis-1,2-Dichloroethene	90	86	75 - 120	4	20		
cis-1,3-Dichloropropene	80	85	76 - 120	6	20		
1,2-Dibromo-3-Chloropropane	63	62	65 - 120	1	22	J F	J F
1,2-Dibromoethane (EDB)	82	84	77 - 120	2	20		
Dibromomethane	83	85	77 - 120	2	20		
1,2-Dichlorobenzene	91	90	76 - 120	2	20		
1,3-Dichlorobenzene	93	93	75 - 120	0	20		
1,4-Dichlorobenzene	94	93	77 - 120	1	23		
Dichlorodifluoromethane	105	96	56 - 140	8	24		
1,1-Dichloroethane	92	90	77 - 120	3	21		
1,2-Dichloroethane	93	94	74 - 120	2	20		
1,1-Dichloroethene	104	99	68 - 133	5	20		
1,2-Dichloroethene, Total	94	91	78 - 120	4	20		
1,2-Dichloropropane	86	88	76 - 120	3	20		
1,3-Dichloropropane	83	89	75 - 120	6	20		
2,2-Dichloropropane	99	93	72 - 128	7	24		

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-43492

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-10042-I-6 MS	Analysis Batch:	280-43492	Instrument ID:	MSV_G2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	g2_7872.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1921			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1921				

MSD Lab Sample ID:	280-10042-I-6 MSD	Analysis Batch:	280-43492	Instrument ID:	MSV_G2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	g2_7873.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1941			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1941				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1-Dichloropropene	95	92	75 - 120	4	21		
Ethylbenzene	91	91	78 - 120	0	26		
Hexachlorobutadiene	105	97	73 - 123	7	25		
2-Hexanone	82	86	57 - 121	5	25		
Isopropylbenzene	102	101	71 - 120	1	20		
4-Isopropyltoluene	93	90	76 - 120	3	20		
Methylene Chloride	101	100	60 - 134	1	20		
4-Methyl-2-pentanone	87	94	65 - 120	9	22		
Methyl tert-butyl ether	59	60	58 - 120	1	21	J	J
m-Xylene & p-Xylene	91	90	78 - 120	2	20		
Naphthalene	78	82	62 - 121	5	32		
n-Butylbenzene	94	89	76 - 120	5	21		
n-Propylbenzene	91	89	76 - 120	3	20		
o-Xylene	88	86	77 - 120	2	20		
sec-Butylbenzene	93	91	80 - 120	2	21		
Styrene	85	84	77 - 120	2	20		
tert-Butylbenzene	94	93	76 - 120	1	21		
1,1,1,2-Tetrachloroethane	84	81	77 - 120	4	20		
1,1,2,2-Tetrachloroethane	80	81	73 - 120	1	20		
Tetrachloroethene	101	99	77 - 120	2	20		
Toluene	92	94	73 - 120	1	20		
trans-1,2-Dichloroethene	99	95	80 - 120	4	24		
trans-1,3-Dichloropropene	77	86	72 - 120	11	20		
1,2,3-Trichlorobenzene	92	91	66 - 123	1	29		
1,2,4-Trichlorobenzene	93	91	73 - 121	3	25		
1,1,1-Trichloroethane	96	92	78 - 120	5	20		
1,1,2-Trichloroethane	82	89	76 - 120	8	21		
Trichloroethene	96	94	78 - 122	3	20		
Trichlorofluoromethane	97	92	63 - 135	6	20		
1,2,3-Trichloropropane	83	89	72 - 120	7	23		
1,2,4-Trimethylbenzene	91	89	77 - 120	2	20		
1,3,5-Trimethylbenzene	93	92	77 - 120	1	20		

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-43492

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-10042-I-6 MS	Analysis Batch:	280-43492	Instrument ID:	MSV_G2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	g2_7872.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1921			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1921				

MSD Lab Sample ID:	280-10042-I-6 MSD	Analysis Batch:	280-43492	Instrument ID:	MSV_G2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	g2_7873.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Date Analyzed:	12/01/2010 1941			Final Weight/Volume:	20 mL
Date Prepared:	12/01/2010 1941				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Vinyl chloride	90	84	49 - 136	7	24		
Xylenes, Total	90	88	77 - 120	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	83	82	78 - 120
Dibromofluoromethane (Surr)	84	84	77 - 120
1,2-Dichloroethane-d4 (Surr)	96	98	70 - 127
Toluene-d8 (Surr)	99	99	80 - 125

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-43492

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-10042-I-6 MS	Units: ug/L	MSD Lab Sample ID:	280-10042-I-6 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	12/01/2010 1921		Date Analyzed:	12/01/2010 1941	
Date Prepared:	12/01/2010 1921		Date Prepared:	12/01/2010 1941	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acetone	1.9	U	20.0	20.0	20.3		20.6	
Benzene	0.16	U	5.00	5.00	4.61		4.59	
Bromobenzene	0.17	U	5.00	5.00	4.60		4.67	
Bromodichloromethane	0.17	U	5.00	5.00	4.00		4.10	
Bromoform	0.19	U	5.00	5.00	3.72		3.84	
Bromomethane	0.21	U	5.00	5.00	4.67		4.40	
2-Butanone (MEK)	2.0	U	20.0	20.0	16.9		18.2	
Carbon tetrachloride	0.19	U	5.00	5.00	4.74		4.57	
Chlorobenzene	0.17	U	5.00	5.00	4.58		4.58	
Bromochloromethane	0.10	U	5.00	5.00	4.60		4.52	
Dibromochloromethane	0.17	U	5.00	5.00	3.90		4.07	
Chloroethane	0.41	U	5.00	5.00	4.80		4.56	
Chloroform	0.16	U	5.00	5.00	4.47		4.37	
Chloromethane	0.30	U	5.00	5.00	4.68		4.32	
2-Chlorotoluene	0.17	U	5.00	5.00	4.63		4.57	
4-Chlorotoluene	0.21	U	5.00	5.00	4.66		4.57	
cis-1,2-Dichloroethene	0.15	U	5.00	5.00	4.50		4.31	
cis-1,3-Dichloropropene	0.16	U	5.00	5.00	3.99		4.23	
1,2-Dibromo-3-Chloropropane	0.47	U	5.00	5.00	3.14	J F	3.11	J F
1,2-Dibromoethane (EDB)	0.18	U	5.00	5.00	4.08		4.18	
Dibromomethane	0.17	U	5.00	5.00	4.14		4.25	
1,2-Dichlorobenzene	0.15	U	5.00	5.00	4.55		4.48	
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.65		4.66	
1,4-Dichlorobenzene	0.16	U	5.00	5.00	4.69		4.63	
Dichlorodifluoromethane	0.31	U	5.00	5.00	5.23		4.81	
1,1-Dichloroethane	0.22	U	5.00	5.00	4.60		4.49	
1,2-Dichloroethane	0.13	U	5.00	5.00	4.64		4.72	
1,1-Dichloroethene	0.23	U	5.00	5.00	5.21		4.96	
1,2-Dichloroethene, Total	0.24	U	10.0	10.0	9.45		9.06	
1,2-Dichloropropane	0.18	U	5.00	5.00	4.28		4.41	
1,3-Dichloropropane	0.22	U	5.00	5.00	4.15		4.43	
2,2-Dichloropropane	0.18	U	5.00	5.00	4.97		4.66	
1,1-Dichloropropene	0.19	U	5.00	5.00	4.77		4.60	
Ethylbenzene	0.16	U	5.00	5.00	4.55		4.53	
Hexachlorobutadiene	0.12	U	5.00	5.00	5.23		4.85	
2-Hexanone	1.7	U	20.0	20.0	16.4		17.3	
Isopropylbenzene	0.19	U	5.00	5.00	5.09		5.04	
4-Isopropyltoluene	0.20	U	5.00	5.00	4.64		4.51	
Methylene Chloride	0.32	U	5.00	5.00	5.03		4.99	
4-Methyl-2-pentanone	0.98	U	20.0	20.0	17.3		18.9	
Methyl tert-butyl ether	0.25	U	5.00	5.00	2.96	J	2.99	J

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-43492

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-10042-I-6 MS	Units: ug/L	MSD Lab Sample ID:	280-10042-I-6 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Date Analyzed:	12/01/2010 1921		Date Analyzed:	12/01/2010 1941	
Date Prepared:	12/01/2010 1921		Date Prepared:	12/01/2010 1941	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
m-Xylene & p-Xylene	0.34	U	10.0	10.0	9.15	8.98
Naphthalene	0.22	U	5.00	5.00	3.91	4.10
n-Butylbenzene	0.14	U	5.00	5.00	4.68	4.43
n-Propylbenzene	0.16	U	5.00	5.00	4.55	4.43
o-Xylene	0.19	U	5.00	5.00	4.39	4.30
sec-Butylbenzene	0.17	U	5.00	5.00	4.64	4.54
Styrene	0.17	U	5.00	5.00	4.26	4.19
tert-Butylbenzene	0.16	U	5.00	5.00	4.68	4.66
1,1,1,2-Tetrachloroethane	0.21	U	5.00	5.00	4.21	4.07
1,1,2,2-Tetrachloroethane	0.21	U	5.00	5.00	4.01	4.04
Tetrachloroethene	0.20	U	5.00	5.00	5.04	4.95
Toluene	0.17	U	5.00	5.00	4.61	4.68
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	4.94	4.75
trans-1,3-Dichloropropene	0.19	U	5.00	5.00	3.84	4.30
1,2,3-Trichlorobenzene	0.21	U	5.00	5.00	4.58	4.54
1,2,4-Trichlorobenzene	0.21	U	5.00	5.00	4.67	4.54
1,1,1-Trichloroethane	0.16	U	5.00	5.00	4.80	4.59
1,1,2-Trichloroethane	0.27	U	5.00	5.00	4.10	4.43
Trichloroethene	0.16	U	5.00	5.00	4.81	4.68
Trichlorofluoromethane	0.29	U	5.00	5.00	4.86	4.58
1,2,3-Trichloropropane	0.33	U	5.00	5.00	4.14	4.45
1,2,4-Trimethylbenzene	0.15	U	5.00	5.00	4.55	4.46
1,3,5-Trimethylbenzene	0.16	U	5.00	5.00	4.66	4.61
Vinyl chloride	0.40	U	5.00	5.00	4.52	4.22
Xylenes, Total	0.19	U	15.0	15.0	13.5	13.3

Client: AECOM, Inc.

Job Number: 280-10064-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-43324					
LCS 280-43324/5	Lab Control Sample	T	Water	8260B	
MB 280-43324/4	Method Blank	T	Water	8260B	
280-10064-1	MW-09	T	Water	8260B	
280-10064-2	MW-20	T	Water	8260B	
280-10064-3	MW-21	T	Water	8260B	
280-10064-3MS	Matrix Spike	T	Water	8260B	
280-10064-3MSD	Matrix Spike Duplicate	T	Water	8260B	
280-10064-4	MW-18	T	Water	8260B	
Analysis Batch:280-43492					
LCS 280-43492/4	Lab Control Sample	T	Water	8260B	
MB 280-43492/5	Method Blank	T	Water	8260B	
280-10042-I-6 MS	Matrix Spike	T	Water	8260B	
280-10042-I-6 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-10064-5	MW-17	T	Water	8260B	
280-10064-6	MW-22	T	Water	8260B	
280-10064-7	MW-16	T	Water	8260B	
280-10064-8	MW-19	T	Water	8260B	
280-10064-9	MW-10	T	Water	8260B	
280-10064-10	MW-DUP	T	Water	8260B	

Report Basis
T = Total

Client: AECOM, Inc. Job Number: 280-10064-1

Laboratory Chronicle

Lab ID: 280-10064-1 **Client ID:** MW-09

Sample Date/Time: 11/18/2010 13:50 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-A-1		280-43324		12/01/2010 17:19	1	TAL DEN	MD
A:8260B	280-10064-A-1		280-43324		12/01/2010 17:19	1	TAL DEN	MD

Lab ID: 280-10064-2 **Client ID:** MW-20

Sample Date/Time: 11/18/2010 07:40 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-A-2		280-43324		12/01/2010 17:39	1	TAL DEN	MD
A:8260B	280-10064-A-2		280-43324		12/01/2010 17:39	1	TAL DEN	MD

Lab ID: 280-10064-3 **Client ID:** MW-21

Sample Date/Time: 11/18/2010 08:20 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-D-3		280-43324		12/01/2010 11:30	1	TAL DEN	MD
A:8260B	280-10064-D-3		280-43324		12/01/2010 11:30	1	TAL DEN	MD

Lab ID: 280-10064-3 **Client ID:** MW-21

Sample Date/Time: 11/18/2010 08:20 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-D-3 MS		280-43324		12/01/2010 11:51	1	TAL DEN	MD
A:8260B	280-10064-D-3 MS		280-43324		12/01/2010 11:51	1	TAL DEN	MD

Lab ID: 280-10064-3 **Client ID:** MW-21

Sample Date/Time: 11/18/2010 08:20 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-D-3 MSD		280-43324		12/01/2010 12:11	1	TAL DEN	MD
A:8260B	280-10064-D-3 MSD		280-43324		12/01/2010 12:11	1	TAL DEN	MD

Lab ID: 280-10064-4 **Client ID:** MW-18

Sample Date/Time: 11/18/2010 09:00 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-A-4		280-43324		12/01/2010 17:59	1	TAL DEN	MD
A:8260B	280-10064-A-4		280-43324		12/01/2010 17:59	1	TAL DEN	MD

Client: AECOM, Inc. Job Number: 280-10064-1

Laboratory Chronicle

Lab ID: 280-10064-5 **Client ID:** MW-17

Sample Date/Time: 11/18/2010 09:45 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-C-5		280-43492		12/01/2010 22:56	1	TAL DEN	DPI
A:8260B	280-10064-C-5		280-43492		12/01/2010 22:56	1	TAL DEN	DPI

Lab ID: 280-10064-6 **Client ID:** MW-22

Sample Date/Time: 11/18/2010 10:35 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-A-6		280-43492		12/01/2010 23:15	1	TAL DEN	DPI
A:8260B	280-10064-A-6		280-43492		12/01/2010 23:15	1	TAL DEN	DPI

Lab ID: 280-10064-7 **Client ID:** MW-16

Sample Date/Time: 11/18/2010 13:00 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-A-7		280-43492		12/01/2010 23:35	1	TAL DEN	DPI
A:8260B	280-10064-A-7		280-43492		12/01/2010 23:35	1	TAL DEN	DPI

Lab ID: 280-10064-8 **Client ID:** MW-19

Sample Date/Time: 11/18/2010 14:45 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-C-8		280-43492		12/01/2010 23:54	1	TAL DEN	DPI
A:8260B	280-10064-C-8		280-43492		12/01/2010 23:54	1	TAL DEN	DPI

Lab ID: 280-10064-9 **Client ID:** MW-10

Sample Date/Time: 11/18/2010 15:30 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-C-9		280-43492		12/02/2010 00:13	1	TAL DEN	DPI
A:8260B	280-10064-C-9		280-43492		12/02/2010 00:13	1	TAL DEN	DPI

Lab ID: 280-10064-10 **Client ID:** MW-DUP

Sample Date/Time: 11/18/2010 00:00 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10064-C-10		280-43492		12/02/2010 00:33	1	TAL DEN	DPI
A:8260B	280-10064-C-10		280-43492		12/02/2010 00:33	1	TAL DEN	DPI

Client: AECOM, Inc. Job Number: 280-10064-1

Laboratory Chronicle

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-43324/4		280-43324		12/01/2010 07:24	1	TAL DEN	MD
A:8260B	MB 280-43324/4		280-43324		12/01/2010 07:24	1	TAL DEN	MD
P:5030B	MB 280-43492/5		280-43492		12/01/2010 18:23	1	TAL DEN	DPI
A:8260B	MB 280-43492/5		280-43492		12/01/2010 18:23	1	TAL DEN	DPI

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-43324/5		280-43324		12/01/2010 07:44	1	TAL DEN	MD
A:8260B	LCS 280-43324/5		280-43324		12/01/2010 07:44	1	TAL DEN	MD
P:5030B	LCS 280-43492/4		280-43492		12/01/2010 17:44	1	TAL DEN	DPI
A:8260B	LCS 280-43492/4		280-43492		12/01/2010 17:44	1	TAL DEN	DPI

Lab ID: MS **Client ID:** N/A

Sample Date/Time: 11/18/2010 16:25 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10042-I-6 MS		280-43492		12/01/2010 19:21	1	TAL DEN	DPI
A:8260B	280-10042-I-6 MS		280-43492		12/01/2010 19:21	1	TAL DEN	DPI

Lab ID: MSD **Client ID:** N/A

Sample Date/Time: 11/18/2010 16:25 Received Date/Time: 11/20/2010 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-10042-I-6 MSD		280-43492		12/01/2010 19:41	1	TAL DEN	DPI
A:8260B	280-10042-I-6 MSD		280-43492		12/01/2010 19:41	1	TAL DEN	DPI

Lab References:
TAL DEN = TestAmerica Denver

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MV-2 Cleve_00006	04/30/11	10/31/10	P&T Methanol, Lot dc275	10 mL	MV-EPA1016_00001	80 uL	2-Chloroethyl vinyl ether	40 ug/mL
.MV-EPA1016_00001	10/31/11		Utra, Lot CE-1722		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
MV-524 A_00008	01/15/11	07/15/10	P&T Methanol, Lot da992	10 mL	MV-DWM589N_00007	200 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,3-Dichloropropene, Total	80 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	40 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Trihalomethanes, Total	160 ug/mL
							Xylenes, Total	120 ug/mL
.MV-DWM589N_00007	08/31/12	Ultra Scientific, Lot CF-2912			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,3-Dichloropropene, Total	4000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Trihalomethanes, Total	8000 ug/mL
							Xylenes, Total	6000 ug/mL
MV-524 A_00009	05/10/11	11/10/10	P&T Methanol, Lot db939	10 mL	MV-DWM589N_00011	200 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Xylenes, Total	120 ug/mL
					MV-STS440_00013	200 uL	Methyl tert-butyl ether	40 ug/mL
.MV-DWM589N_00011	02/28/13		Ultra Scientific, Lot CG-0088		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
.MV-STS440_00013	12/31/12		Ultra, Lot cc-3146a		(Purchased Reagent)		Methyl tert-butyl ether	2000 ug/mL
MV-Archon IS_00128	12/29/10		Supelco, Lot LB73123		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
MV-Archon IS_00182	03/27/11		Supelco, Lot LB73123		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
MV-Archon IS_00201	04/15/11		Supelco, Lot LB73123		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
MV-Archon SS_00175	03/22/11		Restek, Lot A072727		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
MV-Archon SS_00229	05/09/11		Restek, Lot A077707		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
MV-IS ONLY_00004	04/15/11	10/25/10	P&T Methanol, Lot DB939	25 mL	MV-Archon IS_00200	2 mL	1,4-Dichlorobenzene-d4	20 ug/mL
							Chlorobenzene-d5	20 ug/mL
							Fluorobenzene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MV-Archon IS_00200	04/15/11		Supelco, Lot LB73123		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
MV-IS/SS_00007	04/15/11	10/23/10	P&T Methanol, Lot db939	50 mL	MV-Archon SS_00203	4 mL	1,2-Dichloroethane-d4 (Surr)	20 ug/mL
							4-Bromofluorobenzene (Surr)	20 ug/mL
							Dibromofluoromethane (Surr)	20 ug/mL
							Toluene-d8 (Surr)	20 ug/mL
.MV-Archon SS_00203	04/20/11		Restek, Lot A076872		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
MV-Main GasKe_00009	02/28/11	10/07/10	P&T Methanol, Lot dc0275	20 mL	MV-5M06036_00010	400 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
					MV-861149_00018	800 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
							Cyclohexanone	1600 ug/mL
					MV-861149_00019	800 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
							Cyclohexanone	1600 ug/mL
.MV-5M06036_00010	02/28/11		Supelco, Lot LB71228		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.MV-861149_00018	09/30/12		Supelco, Lot LB75124		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone	2000 ug/mL
							Acetone	2000 ug/mL
							Cyclohexanone	20000 ug/mL
.MV-861149_00019	09/30/12		Supelco, Lot LB75124		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone	2000 ug/mL
							Acetone	2000 ug/mL
							Cyclohexanone	20000 ug/mL
MV-Main GasKe_00010	02/28/11	11/16/10	P&T Methanol, Lot db0939	10 mL	MV-5M06036_00010	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
					MV-861149_00020	400 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
							Cyclohexanone	1600 ug/mL
					MV-861149_00022	400 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
							Cyclohexanone	1600 ug/mL
.MV-5M06036_00010	02/28/11		Supelco, Lot LB71228		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.MV-861149_00020	09/30/12		Supelco, Lot LB75124		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone	2000 ug/mL
							Acetone	2000 ug/mL
							Cyclohexanone	20000 ug/mL
.MV-861149_00022	09/30/12		Supelco, Lot LB75124		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone	2000 ug/mL
							Acetone	2000 ug/mL
							Cyclohexanone	20000 ug/mL
MV-Main_00011	11/20/10	08/26/10	P&T Methanol, Lot DC275	10 mL	MV- Acrolein_00004	0.135 mL	Acrolein	399.249 ug/mL
					MV-1-Ch Hex_00004	0.011 mL	1-Chlorohexane	39.534 ug/mL
					MV-502111_00010	0.2 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Xylenes, Total	120 ug/mL
					MV-506052_00009	0.2 mL	Iodomethane	40 ug/mL
					MV-861145_00007	0.2 mL	2-Chloro-1,3-butadiene	40 ug/mL
					MV-CUS11338_00006	1 mL	1,4-Dioxane	2000 ug/mL
							2-Methyl-2-propanol	800 ug/mL
							Acetonitrile	400 ug/mL
							Acrylonitrile	400 ug/mL
							Ethanol	2000 ug/mL
							Isobutyl alcohol	800 ug/mL
							Isopropyl ether	200 ug/mL
							Methacrylonitrile	400 ug/mL
							n-Butanol	1200 ug/mL
							Propionitrile	400 ug/mL
.MV- Acrolein_00004	01/27/11	07/27/10	P&T Methanol, Lot DA992	5 mL	MV-48501_00003	0.155 g	Acrolein	29574 ug/mL
..MV-48501_00003	06/30/11		Supelco, Lot LB76694		(Purchased Reagent)		Acrolein	0.954 mL/mL
.MV-1-Ch Hex_00004	11/20/10	05/20/10	P&T Methanol, Lot da992	5 mL	MV-48501_00001	0.1797 g	1-Chlorohexane	35940 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MV-442258_00001	02/28/12		Supelco, Lot LB65339		(Purchased Reagent)		1-Chlorohexane	1 mL/mL
.MV-502111_00010	12/30/11		Supelco, Lot LB72437		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
.MV-506052_00009	07/31/11		Supelco, Lot LB76374		(Purchased Reagent)		Iodomethane	2000 ug/mL
.MV-861145_00007	03/31/11		Supelco, Lot LB73720		(Purchased Reagent)		2-Chloro-1,3-butadiene	2000 ug/mL
.MV-CUS11338_00006	11/30/11		Ultra, Lot CF-4325		(Purchased Reagent)		1,4-Dioxane	20000 ug/mL
							2-Methyl-2-propanol	8000 ug/mL
							Acetonitrile	4000 ug/mL
							Acrylonitrile	4000 ug/mL
							Ethanol	20000 ug/mL
							Isobutyl alcohol	8000 ug/mL
							Isopropyl ether	2000 ug/mL
							Methacrylonitrile	4000 ug/mL
							n-Butanol	12000 ug/mL
							Propionitrile	4000 ug/mL
MV-Main_00012	03/31/11	10/20/10	P&T Methanol, Lot db939	10 mL	MV- Acrolein_00005	120.75 uL	Acrolein	399.959 ug/mL
					MV-1-Ch Hex_00005	10.9 uL	1-Chlorohexane	39.9194 ug/mL
					MV-502111_00011	200 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Xylenes, Total	120 ug/mL
					MV-506052_00010	200 uL	Iodomethane	40 ug/mL
					MV-861145_00008	200 uL	2-Chloro-1,3-butadiene	40 ug/mL
					MV-CUS11338_00007	1 mL	1,4-Dioxane	2000 ug/mL
							2-Methyl-2-propanol	800 ug/mL
							Acetonitrile	400 ug/mL
							Acrylonitrile	400 ug/mL
							Ethanol	2000 ug/mL
							Isobutyl alcohol	800 ug/mL
							Isopropyl ether	200 ug/mL
							Methacrylonitrile	400 ug/mL
							n-Butanol	1200 ug/mL
							Propionitrile	400 ug/mL
.MV- Acrolein_00005	04/20/11	10/20/10	P&T Methanol, Lot DB939	5 mL	MV-48501_00003	0.1736 g	Acrolein	33122.9 ug/mL
..MV-48501_00003	06/30/11		Supelco, Lot LB76694		(Purchased Reagent)		Acrolein	0.954 mL/mL
.MV-1-Ch Hex_00005	04/20/11	10/20/10	P&T Methanol, Lot db939	5 mL	MV-442258_00002	0.1833 g	1-Chlorohexane	36623.3 ug/mL
..MV-442258_00002	07/31/13		Supelco, Lot LB77927		(Purchased Reagent)		1-Chlorohexane	0.999 mL/mL
.MV-502111_00011	12/30/11		Supelco, Lot LB72437		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
.MV-506052_00010	07/31/11		Supelco, Lot LB76374		(Purchased Reagent)		Iodomethane	2000 ug/mL
.MV-861145_00008	03/31/11		Supelco, Lot LB73720		(Purchased Reagent)		2-Chloro-1,3-butadiene	2000 ug/mL
.MV-CUS11338_00007	11/30/11		Ultra, Lot CF-4325		(Purchased Reagent)		1,4-Dioxane	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	8000 ug/mL
							Acetonitrile	4000 ug/mL
							Acrylonitrile	4000 ug/mL
							Ethanol	20000 ug/mL
							Isobutyl alcohol	8000 ug/mL
							Isopropyl ether	2000 ug/mL
							Methacrylonitrile	4000 ug/mL
							n-Butanol	12000 ug/mL
							Propionitrile	4000 ug/mL
MV-Main_00013	03/31/11	10/20/10	P&T Methanol, Lot db939	10 mL	MV- Acrolein_00005	120.75 uL	Acrolein	399.959 ug/mL
					MV-1-Ch Hex_00005	10.9 uL	1-Chlorohexane	39.9194 ug/mL
					MV-502111_00011	200 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Xylenes, Total	120 ug/mL
					MV-506052_00010	200 uL	Iodomethane	40 ug/mL
					MV-861145_00008	200 uL	2-Chloro-1,3-butadiene	40 ug/mL
					MV-CUS11338_00007	1 mL	1,4-Dioxane	2000 ug/mL
							2-Methyl-2-propanol	800 ug/mL
							Acetonitrile	400 ug/mL
							Acrylonitrile	400 ug/mL
							Ethanol	2000 ug/mL
							Isobutyl alcohol	800 ug/mL
							Isopropyl ether	200 ug/mL
							Methacrylonitrile	400 ug/mL
							n-Butanol	1200 ug/mL
							Propionitrile	400 ug/mL
.MV- Acrolein_00005	04/20/11	10/20/10	P&T Methanol, Lot DB939	5 mL	MV-48501_00003	0.1736 g	Acrolein	33122.9 ug/mL
..MV-48501_00003	06/30/11		Supelco, Lot LB76694		(Purchased Reagent)		Acrolein	0.954 mL/mL
.MV-1-Ch Hex_00005	04/20/11	10/20/10	P&T Methanol, Lot db939	5 mL	MV-442258_00002	0.1833 g	1-Chlorohexane	36623.3 ug/mL
..MV-442258_00002	07/31/13		Supelco, Lot LB77927		(Purchased Reagent)		1-Chlorohexane	0.999 mL/mL
.MV-502111_00011	12/30/11		Supelco, Lot LB72437		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
.MV-506052_00010	07/31/11		Supelco, Lot LB76374		(Purchased Reagent)		Iodomethane	2000 ug/mL
.MV-861145_00008	03/31/11		Supelco, Lot LB73720		(Purchased Reagent)		2-Chloro-1,3-butadiene	2000 ug/mL
.MV-CUS11338_00007	11/30/11		Ultra, Lot CF-4325		(Purchased Reagent)		1,4-Dioxane	20000 ug/mL
							2-Methyl-2-propanol	8000 ug/mL
							Acetonitrile	4000 ug/mL
							Acrylonitrile	4000 ug/mL
							Ethanol	20000 ug/mL
							Isobutyl alcohol	8000 ug/mL
							Isopropyl ether	2000 ug/mL
							Methacrylonitrile	4000 ug/mL
							n-Butanol	12000 ug/mL
							Propionitrile	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MV-Pplene Ox_00001	06/05/11	06/05/10	P&T Methanol, Lot DA992	5 mL	MV-21271404_00001	1 mL	Propene oxide	2000 ug/mL
.MV-21271404_00001	06/05/11	Supelco, Lot LB76656			(Purchased Reagent)		Propene oxide	10000 ug/mL
MV-SS GasKe_00008	04/07/11	10/07/10	P&T Methanol, Lot dc275	20 mL	MV-30006_00009	640 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
					MV-8s61292_00010	400 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MV-30006_00009	09/30/12	Restek, Lot A068500			(Purchased Reagent)		2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone	5000 ug/mL
							Acetone	5000 ug/mL
.MV-8s61292_00010	11/30/11	Supelco, Lot LB71227			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MV-SS ONLY_00003	03/31/11	10/02/10	P&T Methanol, Lot DC275	25 mL	MV-Archon SS_00182	4 mL	1,2-Dichloroethane-d4 (Surr)	40 ug/mL
							4-Bromofluorobenzene (Surr)	40 ug/mL
							Dibromofluoromethane (Surr)	40 ug/mL
							Toluene-d8 (Surr)	40 ug/mL
.MV-Archon SS_00182	03/31/11	Restek, Lot A072727			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
MV-SS Supp_00006	04/22/11	10/22/10	P&T Methanol, Lot db939	5 mL	MV-564150_00006	100 uL	Methyl tert-butyl ether	40 ug/mL
.MV-564150_00006	05/31/11	RESTEK, Lot A074888			(Purchased Reagent)		Methyl tert-butyl ether	2000 ug/mL
MV-Supp Std_00009	02/28/11	10/20/10	P&T Methanol, Lot db939	10 mL	MV-21304788_00001	200 uL	1,1,1-Trifluoro-2,2-dichloroethane	40 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	40 ug/mL
							1,2,3-Trimethylbenzene	40 ug/mL
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	40 ug/mL
							2-Nitropropane	40 ug/mL
							2-Pentanone	160 ug/mL
							3-Chloro-1-propene	40 ug/mL
							Carbon disulfide	40 ug/mL
							cis-1,4-Dichloro-2-butene	40 ug/mL
							Cyclohexane	40 ug/mL
							Dichlorofluoromethane	40 ug/mL
							Ethyl acetate	80 ug/mL
							Ethyl ether	40 ug/mL
							Ethyl methacrylate	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	40 ug/mL
							Isopropyl alcohol	800 ug/mL
							Methyl acetate	200 ug/mL
							Methyl methacrylate	80 ug/mL
							Methyl tert-butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
							Tert-amyl methyl ether	200 ug/mL
							Tert-butyl ethyl ether	200 ug/mL
							Tetrahydrofuran	80 ug/mL
							Tetrahydrothiophene	40 ug/mL
							trans-1,4-Dichloro-2-butene	40 ug/mL
							Vinyl acetate	80 ug/mL
					MV-48838_00008	1 mL	Ethylene oxide	5000 ug/mL
					MV-S-635-1S_00008	200 uL	1,2-Dichloro-1,1,2-trifluoroethane	40 ug/mL
.MV-21304788_00001	10/20/11		Supelco, Lot LB79416		(Purchased Reagent)		1,1,1-Trifluoro-2,2-dichloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,2,3-Trimethylbenzene	2000 ug/mL
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							2-Nitropropane	2000 ug/mL
							2-Pentanone	8000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							cis-1,4-Dichloro-2-butene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	4000 ug/mL
							Hexane	2000 ug/mL
							Isopropyl alcohol	40000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl methacrylate	4000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Tert-amyl methyl ether	10000 ug/mL
							Tert-butyl ethyl ether	10000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Tetrahydrothiophene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Vinyl acetate	4000 ug/mL
.MV-48838_00008	02/28/11		Supelco, Lot LB73690		(Purchased Reagent)		Ethylene oxide	50000 ug/mL
.MV-S-635-1S_00008	04/28/16		Accustandard, Lot B6040282		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_G2 Analysis Batch Number: 42958

Lab Sample ID: IC 280-42958/10 Client Sample ID:

Date Analyzed: 11/28/10 14:03 Lab File ID: g2_7805.D GC Column: DB-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	5.90	Analyte not Identified by the Data System	jacksonto	11/29/10 16:27

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_MS1 Analysis Batch Number: 40333

Lab Sample ID: IC 280-40333/3 Client Sample ID:

Date Analyzed: 11/10/10 18:22 Lab File ID: ms6299.D GC Column: DB-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Chloroethyl vinyl ether	9.08	Analyte not Identified by the Data System	ryersonj	11/10/10 20:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_G2 Analysis Batch Number: 42958

Lab Sample ID: IC 280-42958/10 Client Sample ID:

Date Analyzed: 11/28/10 14:03 Lab File ID: g2_7805.D GC Column: DB-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	5.90	Analyte not Identified by the Data System	jacksonto	11/29/10 16:27

CMK 12/2

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_MS1 Analysis Batch Number: 40333

Lab Sample ID: IC 280-40333/3 Client Sample ID:

Date Analyzed: 11/10/10 18:22 Lab File ID: ms6299.D GC Column: DB-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Chloroethyl vinyl ether	9.08	Analyte not Identified by the Data System	ryersonj	11/10/10 20:28

11/12/2

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-09	280-10064-1	90	94	100	92
MW-20	280-10064-2	89	92	101	92
MW-21	280-10064-3	95	103	106	101
MW-18	280-10064-4	88	93	98	92
MW-17	280-10064-5	83	98	101	94
MW-22	280-10064-6	91	103	105	103
MW-16	280-10064-7	86	98	95	85
MW-19	280-10064-8	85	97	98	86
MW-10	280-10064-9	90	96	93	89
MW-DUP	280-10064-10	88	106	105	96
	MB 280-43324/4	92	101	103	95
	MB 280-43492/5	82	100	98	82
	LCS 280-43324/5	95	101	104	102
	LCS 280-43492/4	83	98	100	84
MW-21 MS	280-10064-3 MS	91	95	96	91
	280-10042-I-6 MS	84	96	99	83
MW-21 MSD	280-10064-3 MSD	98	100	103	99
	280-10042-I-6 MSD	84	98	99	82

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms7218.D

Lab ID: LCS 280-43324/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	19.6	98	48-130	
Benzene	5.00	5.23	105	77-120	
Bromobenzene	5.00	4.54	91	75-120	
Bromodichloromethane	5.00	4.85	97	78-120	
Bromoform	5.00	3.70	74	74-121	
Bromomethane	5.00	4.38	88	42-154	
2-Butanone (MEK)	20.0	21.3	107	57-120	
Carbon tetrachloride	5.00	4.52	90	80-120	
Chlorobenzene	5.00	4.51	90	78-120	
Bromochloromethane	5.00	4.61	92	78-120	
Dibromochloromethane	5.00	4.23	85	76-120	
Chloroethane	5.00	4.89	98	51-133	
Chloroform	5.00	4.98	100	78-120	
Chloromethane	5.00	3.81	76	46-142	
2-Chlorotoluene	5.00	4.60	92	76-120	
4-Chlorotoluene	5.00	4.60	92	78-120	
cis-1,2-Dichloroethene	5.00	5.00	100	75-120	
cis-1,3-Dichloropropene	5.00	4.79	96	76-120	
1,2-Dibromo-3-Chloropropane	5.00	3.93 J	79	65-120	
1,2-Dibromoethane (EDB)	5.00	4.70	94	77-120	
Dibromomethane	5.00	4.69	94	77-120	
1,2-Dichlorobenzene	5.00	4.61	92	76-120	
1,3-Dichlorobenzene	5.00	4.62	92	75-120	
1,4-Dichlorobenzene	5.00	4.53	91	77-120	
Dichlorodifluoromethane	5.00	4.84	97	56-140	
1,1-Dichloroethane	5.00	5.26	105	77-120	
1,2-Dichloroethane	5.00	4.98	100	74-120	
1,1-Dichloroethene	5.00	5.12	102	68-133	
1,2-Dichloroethene, Total	10.0	10.2	102	78-120	
1,2-Dichloropropane	5.00	5.36	107	76-120	
1,3-Dichloropropane	5.00	4.93	99	75-120	
2,2-Dichloropropane	5.00	4.09	82	72-128	
1,1-Dichloropropene	5.00	5.23	105	75-120	
Ethylbenzene	5.00	4.77	95	78-120	
Hexachlorobutadiene	5.00	4.15	83	73-123	
2-Hexanone	20.0	20.7	104	57-121	
Isopropylbenzene	5.00	5.63	113	71-120	
4-Isopropyltoluene	5.00	4.98	100	76-120	
Methylene Chloride	5.00	4.87	97	60-134	
4-Methyl-2-pentanone	20.0	23.0	115	65-120	
Methyl tert-butyl ether	5.00	3.85 J	77	58-120	
m-Xylene & p-Xylene	10.0	9.58	96	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms7218.D

Lab ID: LCS 280-43324/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	5.00	3.89	78	62-121	
n-Butylbenzene	5.00	5.30	106	76-120	
n-Propylbenzene	5.00	4.77	95	76-120	
o-Xylene	5.00	4.87	97	77-120	
sec-Butylbenzene	5.00	4.78	96	80-120	
Styrene	5.00	4.61	92	77-120	
tert-Butylbenzene	5.00	5.05	101	76-120	
1,1,1,2-Tetrachloroethane	5.00	4.17	83	77-120	
1,1,2,2-Tetrachloroethane	5.00	4.97	99	73-120	
Tetrachloroethene	5.00	4.26	85	77-120	
Toluene	5.00	5.12	102	73-120	
trans-1,2-Dichloroethene	5.00	5.17	103	80-120	
trans-1,3-Dichloropropene	5.00	4.67	93	72-120	
1,2,3-Trichlorobenzene	5.00	4.08	82	66-123	
1,2,4-Trichlorobenzene	5.00	4.15	83	73-121	
1,1,1-Trichloroethane	5.00	4.79	96	78-120	
1,1,2-Trichloroethane	5.00	4.94	99	76-120	
Trichloroethene	5.00	4.45	89	78-122	
Trichlorofluoromethane	5.00	4.51	90	63-135	
1,2,3-Trichloropropane	5.00	5.02	100	72-120	
1,2,4-Trimethylbenzene	5.00	5.05	101	77-120	
1,3,5-Trimethylbenzene	5.00	5.14	103	77-120	
Vinyl chloride	5.00	4.16	83	49-136	
Xylenes, Total	15.0	14.5	96	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: g2_7867.D

Lab ID: LCS 280-43492/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	19.6	98	48-130	
Benzene	5.00	4.50	90	77-120	
Bromobenzene	5.00	4.61	92	75-120	
Bromodichloromethane	5.00	4.12	82	78-120	
Bromoform	5.00	3.96	79	74-121	
Bromomethane	5.00	3.93	79	42-154	
2-Butanone (MEK)	20.0	17.9	90	57-120	
Carbon tetrachloride	5.00	4.46	89	80-120	
Chlorobenzene	5.00	4.54	91	78-120	
Bromochloromethane	5.00	4.46	89	78-120	
Dibromochloromethane	5.00	4.13	83	76-120	
Chloroethane	5.00	4.10	82	51-133	
Chloroform	5.00	4.27	85	78-120	
Chloromethane	5.00	4.27	85	46-142	
2-Chlorotoluene	5.00	4.50	90	76-120	
4-Chlorotoluene	5.00	4.54	91	78-120	
cis-1,2-Dichloroethene	5.00	4.23	85	75-120	
cis-1,3-Dichloropropene	5.00	4.23	85	76-120	
1,2-Dibromo-3-Chloropropane	5.00	3.53 J	71	65-120	
1,2-Dibromoethane (EDB)	5.00	4.20	84	77-120	
Dibromomethane	5.00	4.26	85	77-120	
1,2-Dichlorobenzene	5.00	4.46	89	76-120	
1,3-Dichlorobenzene	5.00	4.56	91	75-120	
1,4-Dichlorobenzene	5.00	4.61	92	77-120	
Dichlorodifluoromethane	5.00	4.37	87	56-140	
1,1-Dichloroethane	5.00	4.39	88	77-120	
1,2-Dichloroethane	5.00	4.56	91	74-120	
1,1-Dichloroethene	5.00	4.86	97	68-133	
1,2-Dichloroethene, Total	10.0	8.91	89	78-120	
1,2-Dichloropropane	5.00	4.34	87	76-120	
1,3-Dichloropropane	5.00	4.45	89	75-120	
2,2-Dichloropropane	5.00	4.60	92	72-128	
1,1-Dichloropropene	5.00	4.62	92	75-120	
Ethylbenzene	5.00	4.50	90	78-120	
Hexachlorobutadiene	5.00	4.89	98	73-123	
2-Hexanone	20.0	17.5	88	57-121	
Isopropylbenzene	5.00	4.96	99	71-120	
4-Isopropyltoluene	5.00	4.50	90	76-120	
Methylene Chloride	5.00	5.08	102	60-134	
4-Methyl-2-pentanone	20.0	18.4	92	65-120	
Methyl tert-butyl ether	5.00	2.97 J	59	58-120	
m-Xylene & p-Xylene	10.0	8.96	90	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: g2_7867.D

Lab ID: LCS 280-43492/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	5.00	3.97	79	62-121	
n-Butylbenzene	5.00	4.43	89	76-120	
n-Propylbenzene	5.00	4.42	88	76-120	
o-Xylene	5.00	4.31	86	77-120	
sec-Butylbenzene	5.00	4.51	90	80-120	
Styrene	5.00	4.26	85	77-120	
tert-Butylbenzene	5.00	4.60	92	76-120	
1,1,1,2-Tetrachloroethane	5.00	4.13	83	77-120	
1,1,2,2-Tetrachloroethane	5.00	4.10	82	73-120	
Tetrachloroethene	5.00	4.91	98	77-120	
Toluene	5.00	4.61	92	73-120	
trans-1,2-Dichloroethene	5.00	4.69	94	80-120	
trans-1,3-Dichloropropene	5.00	4.18	84	72-120	
1,2,3-Trichlorobenzene	5.00	4.44	89	66-123	
1,2,4-Trichlorobenzene	5.00	4.60	92	73-121	
1,1,1-Trichloroethane	5.00	4.47	89	78-120	
1,1,2-Trichloroethane	5.00	4.41	88	76-120	
Trichloroethene	5.00	4.63	93	78-122	
Trichlorofluoromethane	5.00	4.18	84	63-135	
1,2,3-Trichloropropane	5.00	4.26	85	72-120	
1,2,4-Trimethylbenzene	5.00	4.48	90	77-120	
1,3,5-Trimethylbenzene	5.00	4.53	91	77-120	
Vinyl chloride	5.00	4.03	81	49-136	
Xylenes, Total	15.0	13.3	88	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms7230.D

Lab ID: 280-10064-3 MS Client ID: MW-21 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	20.0	1.9 U	17.4	87	48-130	
Benzene	5.00	0.16 U	4.89	98	77-120	
Bromobenzene	5.00	0.17 U	4.15	83	75-120	
Bromodichloromethane	5.00	0.17 U	4.56	91	78-120	
Bromoform	5.00	0.19 U	3.65	73	74-121	F
Bromomethane	5.00	0.21 U	3.73	75	42-154	
2-Butanone (MEK)	20.0	2.0 U	20.5	103	57-120	
Carbon tetrachloride	5.00	0.19 U	3.93	79	80-120	F
Chlorobenzene	5.00	0.17 U	4.31	86	78-120	
Bromochloromethane	5.00	0.10 U	4.73	95	78-120	
Dibromochloromethane	5.00	0.17 U	4.19	84	76-120	
Chloroethane	5.00	0.41 U	4.31	86	51-133	
Chloroform	5.00	0.16 U	4.55	91	78-120	
Chloromethane	5.00	0.30 U	2.88	58	46-142	
2-Chlorotoluene	5.00	0.17 U	3.96	79	76-120	
4-Chlorotoluene	5.00	0.21 U	4.15	83	78-120	
cis-1,2-Dichloroethene	5.00	0.15 U	4.80	96	75-120	
cis-1,3-Dichloropropene	5.00	0.16 U	4.46	89	76-120	
1,2-Dibromo-3-Chloropropane	5.00	0.47 U	3.80 J	76	65-120	
1,2-Dibromoethane (EDB)	5.00	0.18 U	4.68	94	77-120	
Dibromomethane	5.00	0.17 U	4.66	93	77-120	
1,2-Dichlorobenzene	5.00	0.15 U	4.23	85	76-120	
1,3-Dichlorobenzene	5.00	0.13 U	4.17	83	75-120	
1,4-Dichlorobenzene	5.00	0.16 U	4.19	84	77-120	
Dichlorodifluoromethane	5.00	0.31 U	4.21	84	56-140	
1,1-Dichloroethane	5.00	0.22 U	4.75	95	77-120	
1,2-Dichloroethane	5.00	0.13 U	4.73	95	74-120	
1,1-Dichloroethene	5.00	0.23 U	4.75	95	68-133	
1,2-Dichloroethene, Total	10.0	0.24 U	9.58	96	78-120	
1,2-Dichloropropane	5.00	0.18 U	5.11	102	76-120	
1,3-Dichloropropane	5.00	0.22 U	4.74	95	75-120	
2,2-Dichloropropane	5.00	0.18 U	3.77	75	72-128	
1,1-Dichloropropene	5.00	0.19 U	4.78	96	75-120	
Ethylbenzene	5.00	0.16 U	4.38	88	78-120	
Hexachlorobutadiene	5.00	0.12 U	3.69	74	73-123	
2-Hexanone	20.0	1.7 U	20.1	101	57-121	
Isopropylbenzene	5.00	0.19 U	4.73	95	71-120	
4-Isopropyltoluene	5.00	0.20 U	4.24	85	76-120	
Methylene Chloride	5.00	0.32 U	4.55	91	60-134	
4-Methyl-2-pentanone	20.0	0.98 U	21.8	109	65-120	
Methyl tert-butyl ether	5.00	0.25 U	4.28 J	86	58-120	
m-Xylene & p-Xylene	10.0	0.34 U	8.80	88	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms7230.D

Lab ID: 280-10064-3 MS Client ID: MW-21 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Naphthalene	5.00	0.22 U	4.16	83	62-121	
n-Butylbenzene	5.00	0.14 U	4.39	88	76-120	
n-Propylbenzene	5.00	0.16 U	4.04	81	76-120	
o-Xylene	5.00	0.19 U	4.44	89	77-120	
sec-Butylbenzene	5.00	0.17 U	4.00	80	80-120	
Styrene	5.00	0.17 U	4.49	90	77-120	
tert-Butylbenzene	5.00	0.16 U	4.27	85	76-120	
1,1,1,2-Tetrachloroethane	5.00	0.21 U	3.84	77	77-120	
1,1,2,2-Tetrachloroethane	5.00	0.21 U	4.57	91	73-120	
Tetrachloroethene	5.00	0.20 U	4.03	81	77-120	
Toluene	5.00	0.17 U	4.84	97	73-120	
trans-1,2-Dichloroethene	5.00	0.15 U	4.77	95	80-120	
trans-1,3-Dichloropropene	5.00	0.19 U	4.79	96	72-120	
1,2,3-Trichlorobenzene	5.00	0.21 U	4.22	84	66-123	
1,2,4-Trichlorobenzene	5.00	0.21 U	4.08	82	73-121	
1,1,1-Trichloroethane	5.00	0.16 U	4.23	85	78-120	
1,1,2-Trichloroethane	5.00	0.27 U	5.11	102	76-120	
Trichloroethene	5.00	0.16 U	4.31	86	78-122	
Trichlorofluoromethane	5.00	0.29 U	3.69	74	63-135	
1,2,3-Trichloropropane	5.00	0.33 U	4.71	94	72-120	
1,2,4-Trimethylbenzene	5.00	0.15 U	4.32	86	77-120	
1,3,5-Trimethylbenzene	5.00	0.16 U	4.33	87	77-120	
Vinyl chloride	5.00	0.40 U	3.34	67	49-136	
Xylenes, Total	15.0	0.19 U	13.2	88	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: g2_7872.D

Lab ID: 280-10042-I-6 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	20.0	1.9 U	20.3	101	48-130	
Benzene	5.00	0.16 U	4.61	92	77-120	
Bromobenzene	5.00	0.17 U	4.60	92	75-120	
Bromodichloromethane	5.00	0.17 U	4.00	80	78-120	
Bromoform	5.00	0.19 U	3.72	74	74-121	
Bromomethane	5.00	0.21 U	4.67	93	42-154	
2-Butanone (MEK)	20.0	2.0 U	16.9	84	57-120	
Carbon tetrachloride	5.00	0.19 U	4.74	95	80-120	
Chlorobenzene	5.00	0.17 U	4.58	92	78-120	
Bromochloromethane	5.00	0.10 U	4.60	92	78-120	
Dibromochloromethane	5.00	0.17 U	3.90	78	76-120	
Chloroethane	5.00	0.41 U	4.80	96	51-133	
Chloroform	5.00	0.16 U	4.47	89	78-120	
Chloromethane	5.00	0.30 U	4.68	94	46-142	
2-Chlorotoluene	5.00	0.17 U	4.63	93	76-120	
4-Chlorotoluene	5.00	0.21 U	4.66	93	78-120	
cis-1,2-Dichloroethene	5.00	0.15 U	4.50	90	75-120	
cis-1,3-Dichloropropene	5.00	0.16 U	3.99	80	76-120	
1,2-Dibromo-3-Chloropropane	5.00	0.47 U	3.14 J	63	65-120	F
1,2-Dibromoethane (EDB)	5.00	0.18 U	4.08	82	77-120	
Dibromomethane	5.00	0.17 U	4.14	83	77-120	
1,2-Dichlorobenzene	5.00	0.15 U	4.55	91	76-120	
1,3-Dichlorobenzene	5.00	0.13 U	4.65	93	75-120	
1,4-Dichlorobenzene	5.00	0.16 U	4.69	94	77-120	
Dichlorodifluoromethane	5.00	0.31 U	5.23	105	56-140	
1,1-Dichloroethane	5.00	0.22 U	4.60	92	77-120	
1,2-Dichloroethane	5.00	0.13 U	4.64	93	74-120	
1,1-Dichloroethene	5.00	0.23 U	5.21	104	68-133	
1,2-Dichloroethene, Total	10.0	0.24 U	9.45	94	78-120	
1,2-Dichloropropane	5.00	0.18 U	4.28	86	76-120	
1,3-Dichloropropane	5.00	0.22 U	4.15	83	75-120	
2,2-Dichloropropane	5.00	0.18 U	4.97	99	72-128	
1,1-Dichloropropene	5.00	0.19 U	4.77	95	75-120	
Ethylbenzene	5.00	0.16 U	4.55	91	78-120	
Hexachlorobutadiene	5.00	0.12 U	5.23	105	73-123	
2-Hexanone	20.0	1.7 U	16.4	82	57-121	
Isopropylbenzene	5.00	0.19 U	5.09	102	71-120	
4-Isopropyltoluene	5.00	0.20 U	4.64	93	76-120	
Methylene Chloride	5.00	0.32 U	5.03	101	60-134	
4-Methyl-2-pentanone	20.0	0.98 U	17.3	87	65-120	
Methyl tert-butyl ether	5.00	0.25 U	2.96 J	59	58-120	
m-Xylene & p-Xylene	10.0	0.34 U	9.15	91	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: g2_7872.D

Lab ID: 280-10042-I-6 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Naphthalene	5.00	0.22 U	3.91	78	62-121	
n-Butylbenzene	5.00	0.14 U	4.68	94	76-120	
n-Propylbenzene	5.00	0.16 U	4.55	91	76-120	
o-Xylene	5.00	0.19 U	4.39	88	77-120	
sec-Butylbenzene	5.00	0.17 U	4.64	93	80-120	
Styrene	5.00	0.17 U	4.26	85	77-120	
tert-Butylbenzene	5.00	0.16 U	4.68	94	76-120	
1,1,1,2-Tetrachloroethane	5.00	0.21 U	4.21	84	77-120	
1,1,2,2-Tetrachloroethane	5.00	0.21 U	4.01	80	73-120	
Tetrachloroethene	5.00	0.20 U	5.04	101	77-120	
Toluene	5.00	0.17 U	4.61	92	73-120	
trans-1,2-Dichloroethene	5.00	0.15 U	4.94	99	80-120	
trans-1,3-Dichloropropene	5.00	0.19 U	3.84	77	72-120	
1,2,3-Trichlorobenzene	5.00	0.21 U	4.58	92	66-123	
1,2,4-Trichlorobenzene	5.00	0.21 U	4.67	93	73-121	
1,1,1-Trichloroethane	5.00	0.16 U	4.80	96	78-120	
1,1,2-Trichloroethane	5.00	0.27 U	4.10	82	76-120	
Trichloroethene	5.00	0.16 U	4.81	96	78-122	
Trichlorofluoromethane	5.00	0.29 U	4.86	97	63-135	
1,2,3-Trichloropropane	5.00	0.33 U	4.14	83	72-120	
1,2,4-Trimethylbenzene	5.00	0.15 U	4.55	91	77-120	
1,3,5-Trimethylbenzene	5.00	0.16 U	4.66	93	77-120	
Vinyl chloride	5.00	0.40 U	4.52	90	49-136	
Xylenes, Total	15.0	0.19 U	13.5	90	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms7231.D

Lab ID: 280-10064-3 MSD Client ID: MW-21 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	19.4	97	11	41	48-130	
Benzene	5.00	5.02	100	3	20	77-120	
Bromobenzene	5.00	4.41	88	6	20	75-120	
Bromodichloromethane	5.00	4.69	94	3	20	78-120	
Bromoform	5.00	3.83	77	5	21	74-121	
Bromomethane	5.00	4.03	81	8	24	42-154	
2-Butanone (MEK)	20.0	22.5	113	9	32	57-120	
Carbon tetrachloride	5.00	4.09	82	4	21	80-120	
Chlorobenzene	5.00	4.41	88	2	20	78-120	
Bromochloromethane	5.00	4.85	97	3	20	78-120	
Dibromochloromethane	5.00	4.33	87	3	20	76-120	
Chloroethane	5.00	4.63	93	7	25	51-133	
Chloroform	5.00	4.76	95	4	20	78-120	
Chloromethane	5.00	3.05	61	6	24	46-142	
2-Chlorotoluene	5.00	4.14	83	4	20	76-120	
4-Chlorotoluene	5.00	4.30	86	4	20	78-120	
cis-1,2-Dichloroethene	5.00	4.99	100	4	20	75-120	
cis-1,3-Dichloropropene	5.00	4.72	94	6	20	76-120	
1,2-Dibromo-3-Chloropropane	5.00	3.99 J	80	5	22	65-120	
1,2-Dibromoethane (EDB)	5.00	4.82	96	3	20	77-120	
Dibromomethane	5.00	4.83	97	4	20	77-120	
1,2-Dichlorobenzene	5.00	4.48	90	6	20	76-120	
1,3-Dichlorobenzene	5.00	4.34	87	4	20	75-120	
1,4-Dichlorobenzene	5.00	4.41	88	5	23	77-120	
Dichlorodifluoromethane	5.00	4.53	91	7	24	56-140	
1,1-Dichloroethane	5.00	5.00	100	5	21	77-120	
1,2-Dichloroethane	5.00	4.88	98	3	20	74-120	
1,1-Dichloroethene	5.00	4.90	98	3	20	68-133	
1,2-Dichloroethene, Total	10.0	9.97	100	4	20	78-120	
1,2-Dichloropropane	5.00	5.26	105	3	20	76-120	
1,3-Dichloropropane	5.00	5.09	102	7	20	75-120	
2,2-Dichloropropane	5.00	3.80	76	1	24	72-128	
1,1-Dichloropropene	5.00	4.93	99	3	21	75-120	
Ethylbenzene	5.00	4.54	91	4	26	78-120	
Hexachlorobutadiene	5.00	3.80	76	3	25	73-123	
2-Hexanone	20.0	22.6	113	12	25	57-121	
Isopropylbenzene	5.00	4.94	99	4	20	71-120	
4-Isopropyltoluene	5.00	4.41	88	4	20	76-120	
Methylene Chloride	5.00	4.68	94	3	20	60-134	
4-Methyl-2-pentanone	20.0	24.4	122	11	22	65-120	F
Methyl tert-butyl ether	5.00	4.37 J	87	2	21	58-120	
m-Xylene & p-Xylene	10.0	9.05	91	3	20	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms7231.D

Lab ID: 280-10064-3 MSD Client ID: MW-21 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	5.00	4.38	88	5	32	62-121	
n-Butylbenzene	5.00	4.51	90	3	21	76-120	
n-Propylbenzene	5.00	4.25	85	5	20	76-120	
o-Xylene	5.00	4.59	92	3	20	77-120	
sec-Butylbenzene	5.00	4.23	85	6	21	80-120	
Styrene	5.00	4.53	91	1	20	77-120	
tert-Butylbenzene	5.00	4.48	90	5	21	76-120	
1,1,1,2-Tetrachloroethane	5.00	4.06	81	5	20	77-120	
1,1,2,2-Tetrachloroethane	5.00	4.84	97	6	20	73-120	
Tetrachloroethene	5.00	4.17	83	4	20	77-120	
Toluene	5.00	4.94	99	2	20	73-120	
trans-1,2-Dichloroethene	5.00	4.98	100	4	24	80-120	
trans-1,3-Dichloropropene	5.00	4.81	96	0	20	72-120	
1,2,3-Trichlorobenzene	5.00	4.47	89	6	29	66-123	
1,2,4-Trichlorobenzene	5.00	4.38	88	7	25	73-121	
1,1,1-Trichloroethane	5.00	4.39	88	4	20	78-120	
1,1,2-Trichloroethane	5.00	5.22	104	2	21	76-120	
Trichloroethene	5.00	4.43	89	3	20	78-122	
Trichlorofluoromethane	5.00	3.93	79	6	20	63-135	
1,2,3-Trichloropropane	5.00	4.97	99	5	23	72-120	
1,2,4-Trimethylbenzene	5.00	4.53	91	5	20	77-120	
1,3,5-Trimethylbenzene	5.00	4.54	91	5	20	77-120	
Vinyl chloride	5.00	3.61	72	8	24	49-136	
Xylenes, Total	15.0	13.6	91	3	20	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: g2_7873.D

Lab ID: 280-10042-I-6 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	20.6	103	2	41	48-130	
Benzene	5.00	4.59	92	0	20	77-120	
Bromobenzene	5.00	4.67	93	1	20	75-120	
Bromodichloromethane	5.00	4.10	82	2	20	78-120	
Bromoform	5.00	3.84	77	3	21	74-121	
Bromomethane	5.00	4.40	88	6	24	42-154	
2-Butanone (MEK)	20.0	18.2	91	8	32	57-120	
Carbon tetrachloride	5.00	4.57	91	4	21	80-120	
Chlorobenzene	5.00	4.58	92	0	20	78-120	
Bromochloromethane	5.00	4.52	90	2	20	78-120	
Dibromochloromethane	5.00	4.07	81	4	20	76-120	
Chloroethane	5.00	4.56	91	5	25	51-133	
Chloroform	5.00	4.37	87	2	20	78-120	
Chloromethane	5.00	4.32	86	8	24	46-142	
2-Chlorotoluene	5.00	4.57	91	1	20	76-120	
4-Chlorotoluene	5.00	4.57	91	2	20	78-120	
cis-1,2-Dichloroethene	5.00	4.31	86	4	20	75-120	
cis-1,3-Dichloropropene	5.00	4.23	85	6	20	76-120	
1,2-Dibromo-3-Chloropropane	5.00	3.11 J	62	1	22	65-120	F
1,2-Dibromoethane (EDB)	5.00	4.18	84	2	20	77-120	
Dibromomethane	5.00	4.25	85	2	20	77-120	
1,2-Dichlorobenzene	5.00	4.48	90	2	20	76-120	
1,3-Dichlorobenzene	5.00	4.66	93	0	20	75-120	
1,4-Dichlorobenzene	5.00	4.63	93	1	23	77-120	
Dichlorodifluoromethane	5.00	4.81	96	8	24	56-140	
1,1-Dichloroethane	5.00	4.49	90	3	21	77-120	
1,2-Dichloroethane	5.00	4.72	94	2	20	74-120	
1,1-Dichloroethene	5.00	4.96	99	5	20	68-133	
1,2-Dichloroethene, Total	10.0	9.06	91	4	20	78-120	
1,2-Dichloropropane	5.00	4.41	88	3	20	76-120	
1,3-Dichloropropane	5.00	4.43	89	6	20	75-120	
2,2-Dichloropropane	5.00	4.66	93	7	24	72-128	
1,1-Dichloropropene	5.00	4.60	92	4	21	75-120	
Ethylbenzene	5.00	4.53	91	0	26	78-120	
Hexachlorobutadiene	5.00	4.85	97	7	25	73-123	
2-Hexanone	20.0	17.3	86	5	25	57-121	
Isopropylbenzene	5.00	5.04	101	1	20	71-120	
4-Isopropyltoluene	5.00	4.51	90	3	20	76-120	
Methylene Chloride	5.00	4.99	100	1	20	60-134	
4-Methyl-2-pentanone	20.0	18.9	94	9	22	65-120	
Methyl tert-butyl ether	5.00	2.99 J	60	1	21	58-120	
m-Xylene & p-Xylene	10.0	8.98	90	2	20	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Matrix: Water Level: Low Lab File ID: g2_7873.D

Lab ID: 280-10042-I-6 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	5.00	4.10	82	5	32	62-121	
n-Butylbenzene	5.00	4.43	89	5	21	76-120	
n-Propylbenzene	5.00	4.43	89	3	20	76-120	
o-Xylene	5.00	4.30	86	2	20	77-120	
sec-Butylbenzene	5.00	4.54	91	2	21	80-120	
Styrene	5.00	4.19	84	2	20	77-120	
tert-Butylbenzene	5.00	4.66	93	1	21	76-120	
1,1,1,2-Tetrachloroethane	5.00	4.07	81	4	20	77-120	
1,1,2,2-Tetrachloroethane	5.00	4.04	81	1	20	73-120	
Tetrachloroethene	5.00	4.95	99	2	20	77-120	
Toluene	5.00	4.68	94	1	20	73-120	
trans-1,2-Dichloroethene	5.00	4.75	95	4	24	80-120	
trans-1,3-Dichloropropene	5.00	4.30	86	11	20	72-120	
1,2,3-Trichlorobenzene	5.00	4.54	91	1	29	66-123	
1,2,4-Trichlorobenzene	5.00	4.54	91	3	25	73-121	
1,1,1-Trichloroethane	5.00	4.59	92	5	20	78-120	
1,1,2-Trichloroethane	5.00	4.43	89	8	21	76-120	
Trichloroethene	5.00	4.68	94	3	20	78-122	
Trichlorofluoromethane	5.00	4.58	92	6	20	63-135	
1,2,3-Trichloropropane	5.00	4.45	89	7	23	72-120	
1,2,4-Trimethylbenzene	5.00	4.46	89	2	20	77-120	
1,3,5-Trimethylbenzene	5.00	4.61	92	1	20	77-120	
Vinyl chloride	5.00	4.22	84	7	24	49-136	
Xylenes, Total	15.0	13.3	88	2	20	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab File ID: ms7217.D Lab Sample ID: MB 280-43324/4

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: MSV_MS1 Date Analyzed: 12/01/2010 07:24

GC Column: DB-624 (60.32) ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-43324/5	ms7218.D	12/01/2010 07:44
MW-21	280-10064-3	ms7229.D	12/01/2010 11:30
MW-21 MS	280-10064-3 MS	ms7230.D	12/01/2010 11:51
MW-21 MSD	280-10064-3 MSD	ms7231.D	12/01/2010 12:11
MW-09	280-10064-1	ms7246.D	12/01/2010 17:19
MW-20	280-10064-2	ms7247.D	12/01/2010 17:39
MW-18	280-10064-4	ms7248.D	12/01/2010 17:59

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab File ID: g2_7869.D Lab Sample ID: MB 280-43492/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: MSV_G2 Date Analyzed: 12/01/2010 18:23

GC Column: DB-624 (60.32) ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-43492/4	g2_7867.D	12/01/2010 17:44
	280-10042-I-6 MS	g2_7872.D	12/01/2010 19:21
	280-10042-I-6 MSD	g2_7873.D	12/01/2010 19:41
MW-17	280-10064-5	g2_7883.D	12/01/2010 22:56
MW-22	280-10064-6	g2_7884.D	12/01/2010 23:15
MW-16	280-10064-7	g2_7885.D	12/01/2010 23:35
MW-19	280-10064-8	g2_7886.D	12/01/2010 23:54
MW-10	280-10064-9	g2_7887.D	12/02/2010 00:13
MW-DUP	280-10064-10	g2_7888.D	12/02/2010 00:33

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab File ID: g2_7793.D BFB Injection Date: 11/28/2010

Instrument ID: MSV_G2 BFB Injection Time: 10:07

Analysis Batch No.: 42958

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	24.0	
75	30.0 - 60.0 % of mass 95	53.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	60.5	
175	5.0 - 9.0 % of mass 174	4.5	(7.5)1
176	95.0 - 101.0 % of mass 174	58.3	(96.3)1
177	5.0 - 9.0 % of mass 176	3.9	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-42958/2	g2_7794.D	11/28/2010	10:28
	IC 280-42958/3	g2_7795.D	11/28/2010	10:48
	IC 280-42958/4	g2_7796.D	11/28/2010	11:07
	IC 280-42958/5	g2_7797.D	11/28/2010	11:27
	IC 280-42958/6	g2_7798.D	11/28/2010	11:46
	IC 280-42958/7	g2_7799.D	11/28/2010	12:06
	IC 280-42958/8	g2_7800.D	11/28/2010	12:25
	ICV 280-42958/16	g2_7802.D	11/28/2010	13:04
	ICV 280-42958/17	g2_7803.D	11/28/2010	13:24
	IC 280-42958/9	g2_7804.D	11/28/2010	13:43
	IC 280-42958/10	g2_7805.D	11/28/2010	14:03
	IC 280-42958/11	g2_7806.D	11/28/2010	14:23
	IC 280-42958/12	g2_7807.D	11/28/2010	14:43
	ICIS 280-42958/13	g2_7808.D	11/28/2010	15:02
	IC 280-42958/14	g2_7809.D	11/28/2010	15:22
	IC 280-42958/15	g2_7810.D	11/28/2010	15:42
	ICV 280-42958/18	g2_7811.D	11/28/2010	16:02

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab File ID: g2_7812.D BFB Injection Date: 11/29/2010

Instrument ID: MSV_G2 BFB Injection Time: 16:01

Analysis Batch No.: 43097

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.8	
75	30.0 - 60.0 % of mass 95	52.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	60.5	
175	5.0 - 9.0 % of mass 174	4.5	(7.4)1
176	95.0 - 101.0 % of mass 174	57.8	(95.5)1
177	5.0 - 9.0 % of mass 176	3.9	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 280-43097/2	g2_7817.D	11/29/2010	17:45

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab File ID: g2_7864.D BFB Injection Date: 12/01/2010

Instrument ID: MSV_G2 BFB Injection Time: 16:33

Analysis Batch No.: 43492

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	24.1	
75	30.0 - 60.0 % of mass 95	55.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	65.6	
175	5.0 - 9.0 % of mass 174	4.9	(7.5)1
176	95.0 - 101.0 % of mass 174	63.8	(97.2)1
177	5.0 - 9.0 % of mass 176	4.3	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-43492/2	g2_7865.D	12/01/2010	17:05
	CCV 280-43492/3	g2_7866.D	12/01/2010	17:24
	LCS 280-43492/4	g2_7867.D	12/01/2010	17:44
	MB 280-43492/5	g2_7869.D	12/01/2010	18:23
	280-10042-I-6 MS	g2_7872.D	12/01/2010	19:21
	280-10042-I-6 MSD	g2_7873.D	12/01/2010	19:41
MW-17	280-10064-5	g2_7883.D	12/01/2010	22:56
MW-22	280-10064-6	g2_7884.D	12/01/2010	23:15
MW-16	280-10064-7	g2_7885.D	12/01/2010	23:35
MW-19	280-10064-8	g2_7886.D	12/01/2010	23:54
MW-10	280-10064-9	g2_7887.D	12/02/2010	00:13
MW-DUP	280-10064-10	g2_7888.D	12/02/2010	00:33

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab File ID: ms4737.D BFB Injection Date: 10/12/2010

Instrument ID: MSV_MS1 BFB Injection Time: 18:48

Analysis Batch No.: 35665

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	46.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	74.7	
175	5.0 - 9.0 % of mass 174	5.4	(7.2)1
176	95.0 - 101.0 % of mass 174	72.7	(97.4)1
177	5.0 - 9.0 % of mass 176	5.0	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-35665/2	ms4739.D	10/12/2010	19:29
	IC 280-35665/3	ms4740.D	10/12/2010	19:49
	IC 280-35665/4	ms4741.D	10/12/2010	20:09
	IC 280-35665/5	ms4742.D	10/12/2010	20:30
	IC 280-35665/6	ms4743.D	10/12/2010	20:50
	IC 280-35665/7	ms4744.D	10/12/2010	21:10
	IC 280-35665/8	ms4745.D	10/12/2010	21:30

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab File ID: ms6295.D BFB Injection Date: 11/10/2010

Instrument ID: MSV_MS1 BFB Injection Time: 16:58

Analysis Batch No.: 40333

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	50.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	81.0	
175	5.0 - 9.0 % of mass 174	6.1	(7.5)1
176	95.0 - 101.0 % of mass 174	79.4	(98.1)1
177	5.0 - 9.0 % of mass 176	5.4	(6.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-40333/2	ms6298.D	11/10/2010	18:01
	IC 280-40333/3	ms6299.D	11/10/2010	18:22
	IC 280-40333/4	ms6300.D	11/10/2010	18:42
	IC 280-40333/5	ms6301.D	11/10/2010	19:03
	ICIS 280-40333/6	ms6302.D	11/10/2010	19:23
	IC 280-40333/7	ms6303.D	11/10/2010	19:44
	IC 280-40333/8	ms6304.D	11/10/2010	20:04
	ICV 280-40333/9	ms6306.D	11/10/2010	20:45

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab File ID: ms6432.D BFB Injection Date: 11/12/2010

Instrument ID: MSV_MS1 BFB Injection Time: 19:02

Analysis Batch No.: 40764

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.4	
75	30.0 - 60.0 % of mass 95	54.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	77.4	
175	5.0 - 9.0 % of mass 174	5.7	(7.3)1
176	95.0 - 101.0 % of mass 174	73.8	(95.4)1
177	5.0 - 9.0 % of mass 176	5.2	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-40764/2	ms6434.D	11/12/2010	19:43
	IC 280-40764/3	ms6435.D	11/12/2010	20:04
	IC 280-40764/4	ms6436.D	11/12/2010	20:24
	IC 280-40764/5	ms6437.D	11/12/2010	20:45
	IC 280-40764/6	ms6438.D	11/12/2010	21:05
	IC 280-40764/7	ms6439.D	11/12/2010	21:26
	IC 280-40764/8	ms6440.D	11/12/2010	21:46
	ICV 280-40764/9	ms6441.D	11/12/2010	22:07
	ICV 280-40764/10	ms6442.D	11/12/2010	22:27
	ICV 280-40764/11	ms6443.D	11/12/2010	22:47
	ICV 280-40764/12	ms6446.D	11/12/2010	23:49
	ICV 280-40764/13	ms6467.D	11/13/2010	06:56

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab File ID: ms7213.D BFB Injection Date: 12/01/2010

Instrument ID: MSV_MS1 BFB Injection Time: 06:13

Analysis Batch No.: 43324

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.6	
75	30.0 - 60.0 % of mass 95	54.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	72.6	
175	5.0 - 9.0 % of mass 174	5.4	(7.5)1
176	95.0 - 101.0 % of mass 174	72.9	(100.5)1
177	5.0 - 9.0 % of mass 176	4.7	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-43324/2	ms7214.D	12/01/2010	06:22
	CCV 280-43324/3	ms7215.D	12/01/2010	06:43
	MB 280-43324/4	ms7217.D	12/01/2010	07:24
	LCS 280-43324/5	ms7218.D	12/01/2010	07:44
MW-21	280-10064-3	ms7229.D	12/01/2010	11:30
MW-21 MS	280-10064-3 MS	ms7230.D	12/01/2010	11:51
MW-21 MSD	280-10064-3 MSD	ms7231.D	12/01/2010	12:11
MW-09	280-10064-1	ms7246.D	12/01/2010	17:19
MW-20	280-10064-2	ms7247.D	12/01/2010	17:39
MW-18	280-10064-4	ms7248.D	12/01/2010	17:59

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Sample No.: ICIS 280-42958/13 Date Analyzed: 11/28/2010 15:02

Instrument ID: MSV_G2 GC Column: DB-624 (60.32) ID: 0.32(mm)

Lab File ID (Standard): g2_7808.D Heated Purge: (Y/N) N

Calibration ID: 3822

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		760838	7.86	152349	10.12	247294	11.99
UPPER LIMIT		1521676	8.36	304698	10.62	494588	12.49
LOWER LIMIT		380419	7.36	76175	9.62	123647	11.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-42958/16		1281087	7.86	240805	10.12	307025	11.99
ICV 280-42958/17		1204658	7.86	226058	10.12	300245	11.99
ICV 280-42958/18		873022	7.86	160311	10.13	218279	11.99
CCV 280-43492/2		829276	7.86	146589	10.13	222543	12.00
CCV 280-43492/3		983494	7.86	184462	10.13	263073	11.99
LCS 280-43492/4		1045279	7.86	199021	10.13	272471	11.99
MB 280-43492/5		1004386	7.86	194769	10.13	265092	11.99
280-10042-I-6 MS		946501	7.86	178437	10.12	246219	11.99
280-10042-I-6 MSD		1005488	7.86	194172	10.12	261963	11.99
280-10064-5	MW-17	977920	7.86	190975	10.13	252942	11.99
280-10064-6	MW-22	678128	7.86	128980	10.12	212507	11.99
280-10064-7	MW-16	823275	7.86	160728	10.12	226156	11.99
280-10064-8	MW-19	836580	7.86	158278	10.12	230117	11.99
280-10064-9	MW-10	692848	7.86	140961	10.12	213469	11.99
280-10064-10	MW-DUP	757604	7.86	140810	10.12	212750	11.99

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Sample No.: ICIS 280-40333/6 Date Analyzed: 11/10/2010 19:23

Instrument ID: MSV_MS1 GC Column: DB-624 (60.32) ID: 0.32(mm)

Lab File ID (Standard): ms6302.D Heated Purge: (Y/N) N

Calibration ID: 3590

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2095778	8.35	416232	10.62	534262	12.54
UPPER LIMIT		4191556	8.85	832464	11.12	1068524	13.04
LOWER LIMIT		1047889	7.85	208116	10.12	267131	12.04
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-40333/9		2079790	8.35	418446	10.60	545144	12.54
ICV 280-40764/9		2502712	8.35	500487	10.60	643883	12.54
ICV 280-40764/10		2482396	8.35	518742	10.60	672147	12.54
ICV 280-40764/11		2535772	8.35	497194	10.60	613420	12.54
ICV 280-40764/12		2186327	8.35	425061	10.62	523762	12.54
ICV 280-40764/13		1755199	8.35	373410	10.62	500330	12.54
CCV 280-43324/2		2217003	8.35	476780	10.62	600577	12.54
CCV 280-43324/3		2310050	8.35	467050	10.62	569498	12.54
MB 280-43324/4		2198999	8.35	457115	10.62	580549	12.54
LCS 280-43324/5		2178930	8.35	461871	10.60	589615	12.54
280-10064-3	MW-21	2278953	8.35	471186	10.62	596410	12.54
280-10064-3 MS	MW-21 MS	2456215	8.35	535339	10.60	725045	12.54
280-10064-3 MSD	MW-21 MSD	2359445	8.35	507819	10.62	676956	12.54
280-10064-1	MW-09	2462828	8.35	522332	10.62	683899	12.54
280-10064-2	MW-20	2437762	8.35	513644	10.62	669634	12.54
280-10064-4	MW-18	2438687	8.35	519024	10.62	680254	12.54

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-09 | Lab Sample ID: 280-10064-1

Matrix: Water | Lab File ID: ms7246.D

Analysis Method: 8260B | Date Collected: 11/18/2010 13:50

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 17:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-09 | Lab Sample ID: 280-10064-1

Matrix: Water | Lab File ID: ms7246.D

Analysis Method: 8260B | Date Collected: 11/18/2010 13:50

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 17:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-09 Lab Sample ID: 280-10064-1

Matrix: Water Lab File ID: ms7246.D

Analysis Method: 8260B Date Collected: 11/18/2010 13:50

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 17:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		78-120
1868-53-7	Dibromofluoromethane (Surr)	90		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-127
2037-26-5	Toluene-d8 (Surr)	100		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7246.D
Lab Smp Id: 280-10064-A-1 Client Smp ID: MW-09
Inj Date : 01-DEC-2010 17:19
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : 280-10064-a-1,,PH<2
Misc Info : 280-10064-A-1
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\8260B-H2OAFC.m
Meth Date : 02-Dec-2010 08:46 dobranskym Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC096

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
*	60 Fluorobenzene	96	8.354	8.354	(1.000)	2462828	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	522332	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.544	12.544	(1.000)	683899	12.5000	
$	49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	521793	10.8533	10.8533
$	55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	518965	11.2634	11.2634
$	73 Toluene-d8	98	9.499	9.499	(0.895)	2878197	12.0513	12.0513
$	96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	811803	11.0679	11.0679
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	13 Ethanol	45	Compound Not Detected.					
	15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	17 Ethyl Ether	59	Compound Not Detected.					
	16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
20 Trichlorotrifluoroethane	151	Compound Not Detected.					
21 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	Compound Not Detected.					
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
57 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
56 TAME	73	Compound Not Detected.					
59 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

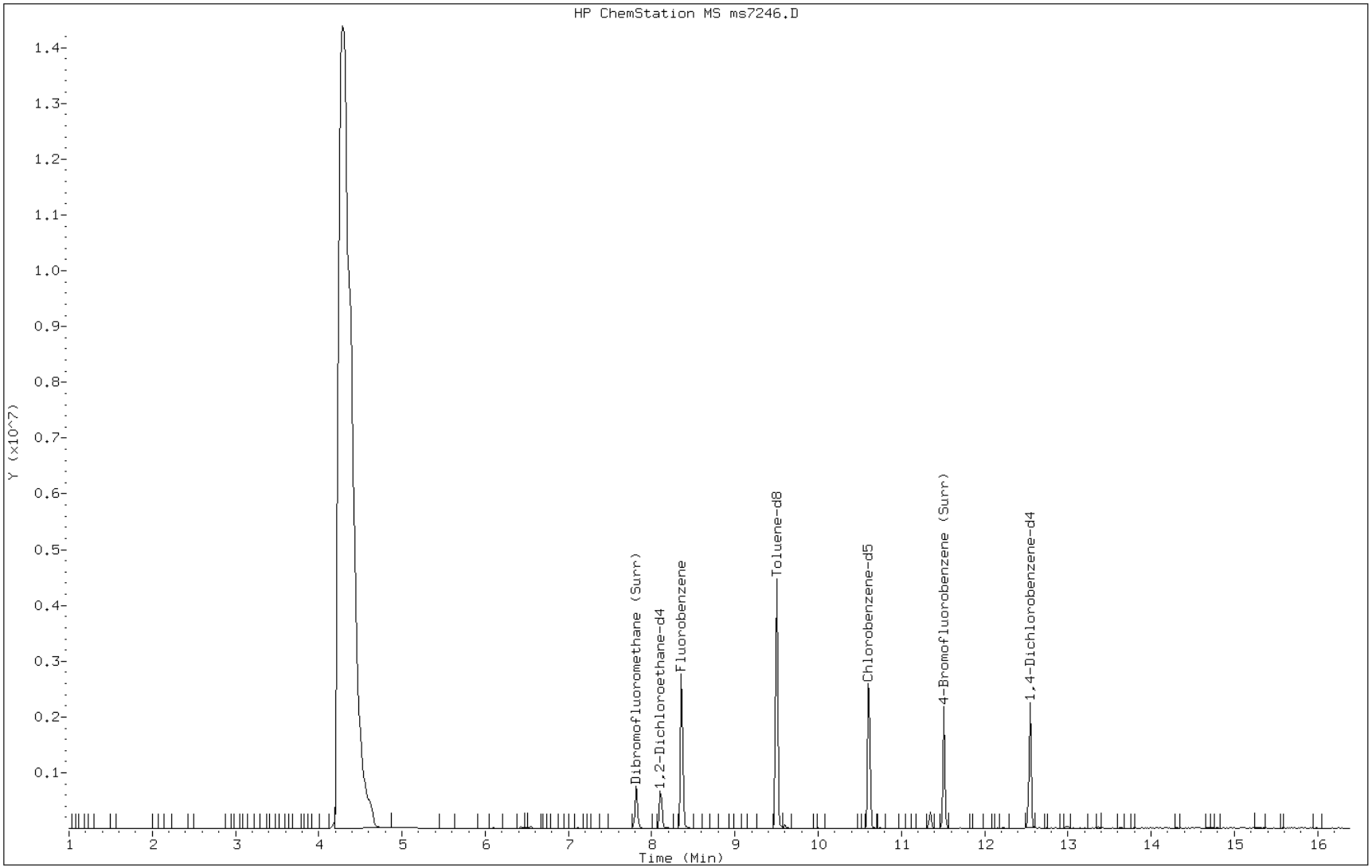
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
88	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
87	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
90	o-Xylene	106	Compound Not Detected.					
91	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	Compound Not Detected.					
100	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
111	1,4-dichlorobenzene	146	Compound Not Detected.					
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
117	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
118	Hexachlorobutadiene	225	Compound Not Detected.					
119	Naphthalene	128	Compound Not Detected.					
120	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: ms7246.D

Date: 01-DEC-2010 17:19

Client ID: MW-09 Instrument: GCMS1.i

Sample Info: 280-10064-a-1,,PH<2 Operator: DOBRANSKYM



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-20 | Lab Sample ID: 280-10064-2

Matrix: Water | Lab File ID: ms7247.D

Analysis Method: 8260B | Date Collected: 11/18/2010 07:40

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 17:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-20 | Lab Sample ID: 280-10064-2

Matrix: Water | Lab File ID: ms7247.D

Analysis Method: 8260B | Date Collected: 11/18/2010 07:40

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 17:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-20 Lab Sample ID: 280-10064-2

Matrix: Water Lab File ID: ms7247.D

Analysis Method: 8260B Date Collected: 11/18/2010 07:40

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 17:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		78-120
1868-53-7	Dibromofluoromethane (Surr)	89		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-127
2037-26-5	Toluene-d8 (Surr)	101		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7247.D
Lab Smp Id: 280-10064-A-2 Client Smp ID: MW-20
Inj Date : 01-DEC-2010 17:39
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : 280-10064-a-2,,PH<2
Misc Info : 280-10064-A-2
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\8260B-H2OAFC.m
Meth Date : 02-Dec-2010 08:46 dobranskym Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC096

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
*	60 Fluorobenzene	96	8.354	8.354	(1.000)	2437762	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	513644	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.544	12.544	(1.000)	669634	12.5000	
$	49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	509496	10.7065	10.7065
$	55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	505618	11.0866	11.0866
$	73 Toluene-d8	98	9.499	9.499	(0.895)	2844578	12.1120	12.1120
$	96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	789505	10.9932	10.9932
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	13 Ethanol	45	Compound Not Detected.					
	15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	17 Ethyl Ether	59	Compound Not Detected.					
	16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
20 Trichlorotrifluoroethane	151	Compound Not Detected.					
21 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	Compound Not Detected.					
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
57 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
56 TAME	73	Compound Not Detected.					
59 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

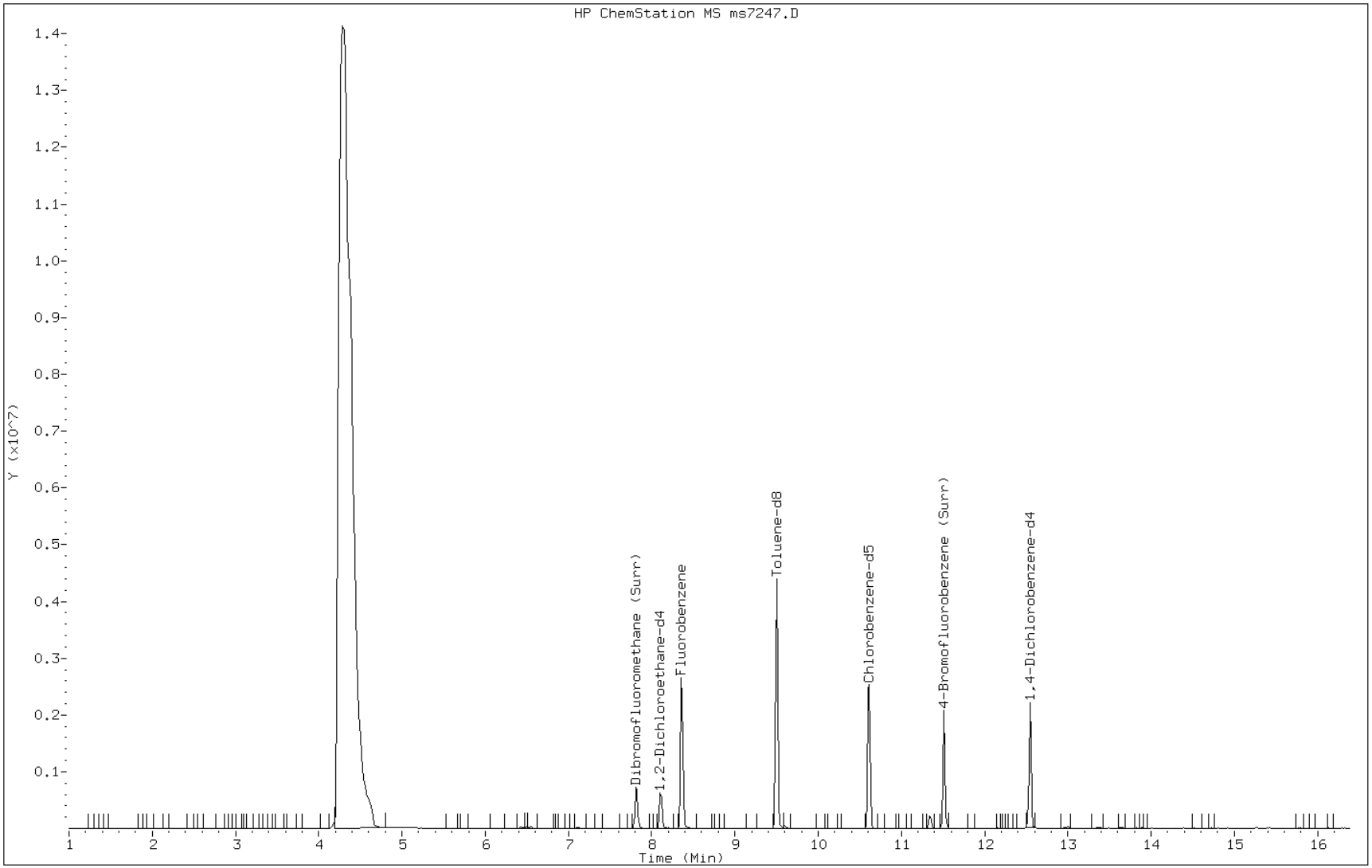
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
88	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
87	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
90	o-Xylene	106	Compound Not Detected.					
91	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	Compound Not Detected.					
100	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
111	1,4-dichlorobenzene	146	Compound Not Detected.					
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
117	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
118	Hexachlorobutadiene	225	Compound Not Detected.					
119	Naphthalene	128	Compound Not Detected.					
120	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: ms7247.D

Date: 01-DEC-2010 17:39

Client ID: MW-20 Instrument: GCMS1.i

Sample Info: 280-10064-a-2,,PH<2 Operator: DOBRANSKYM



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-21 | Lab Sample ID: 280-10064-3

Matrix: Water | Lab File ID: ms7229.D

Analysis Method: 8260B | Date Collected: 11/18/2010 08:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 11:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-21 | Lab Sample ID: 280-10064-3

Matrix: Water | Lab File ID: ms7229.D

Analysis Method: 8260B | Date Collected: 11/18/2010 08:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 11:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-21 Lab Sample ID: 280-10064-3

Matrix: Water Lab File ID: ms7229.D

Analysis Method: 8260B Date Collected: 11/18/2010 08:20

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 11:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
1868-53-7	Dibromofluoromethane (Surr)	95		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-127
2037-26-5	Toluene-d8 (Surr)	106		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7229.D
Lab Smp Id: 280-10064-D-3 Client Smp ID: MW-21
Inj Date : 01-DEC-2010 11:30
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : 280-10064-d-3,,PH<2 FOAMY
Misc Info : 280-10064-D-3
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\8260B-H2OAFC.m
Meth Date : 01-Dec-2010 07:21 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC096

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
*	60 Fluorobenzene	96	8.354	8.354	(1.000)	2278953	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	471186	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.544	12.544	(1.000)	596410	12.5000	
$	49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	508454	11.4292	11.4292
$	55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	525997	12.3372	12.3372
$	73 Toluene-d8	98	9.499	9.499	(0.895)	2744333	12.7381	12.7381
$	96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	772366	12.0749	12.0749
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	13 Ethanol	45	Compound Not Detected.					
	15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	17 Ethyl Ether	59	Compound Not Detected.					
	16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
20 Trichlorotrifluoroethane	151	Compound Not Detected.					
21 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	Compound Not Detected.					
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
57 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
56 TAME	73	Compound Not Detected.					
59 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

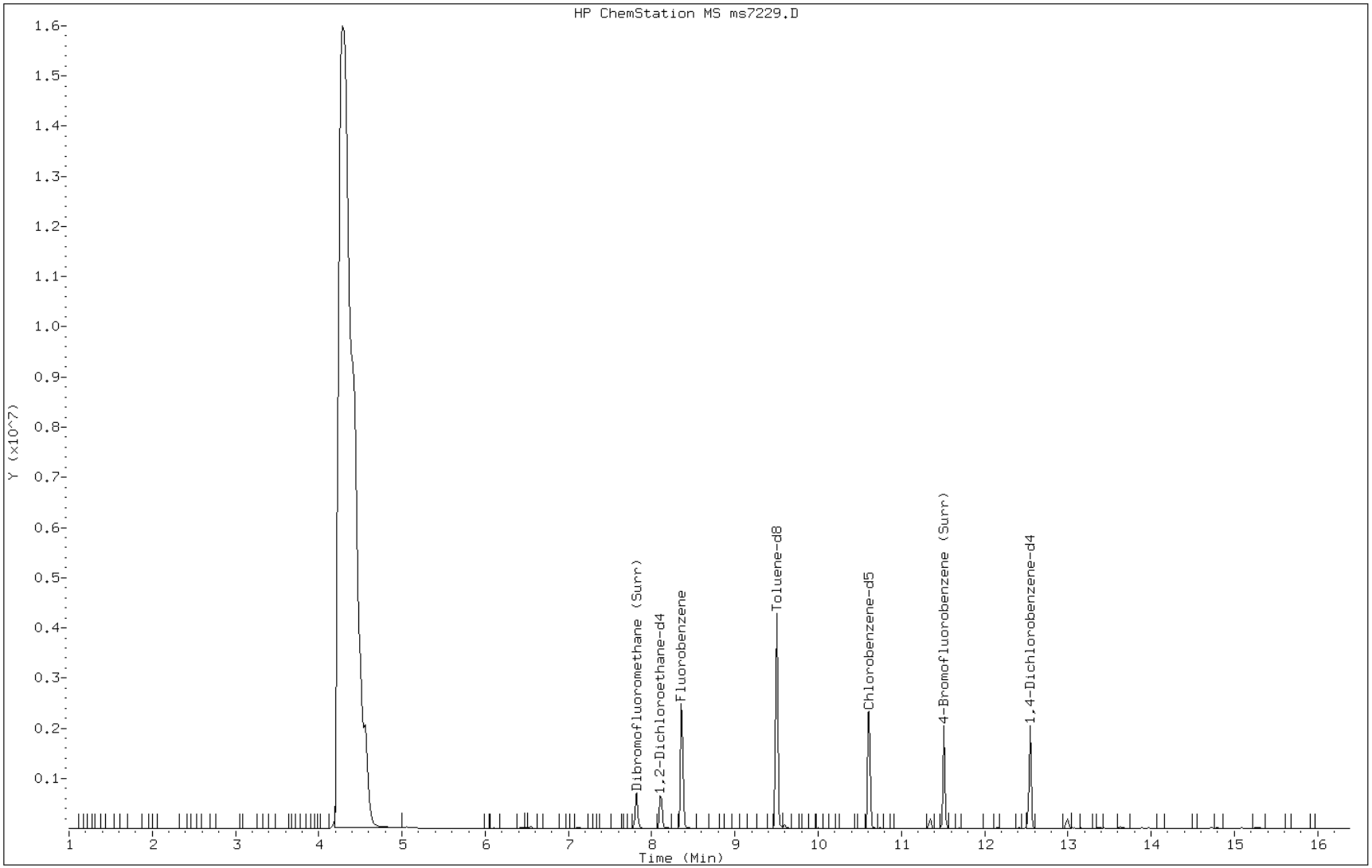
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
88	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
87	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
90	o-Xylene	106	Compound Not Detected.					
91	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	Compound Not Detected.					
100	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
111	1,4-dichlorobenzene	146	Compound Not Detected.					
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
117	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
118	Hexachlorobutadiene	225	Compound Not Detected.					
119	Naphthalene	128	Compound Not Detected.					
120	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: ms7229.D

Date: 01-DEC-2010 11:30

Client ID: MW-21 Instrument: GCMS1.i

Sample Info: 280-10064-d-3,,PH<2 FOAMY Operator: DOBRANSKYM



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-18 | Lab Sample ID: 280-10064-4

Matrix: Water | Lab File ID: ms7248.D

Analysis Method: 8260B | Date Collected: 11/18/2010 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/01/2010 17:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	7.6	U	40	7.6
71-43-2	Benzene	0.64	U	4.0	0.64
108-86-1	Bromobenzene	0.68	U	4.0	0.68
75-27-4	Bromodichloromethane	0.68	U	4.0	0.68
75-25-2	Bromoform	0.76	U	4.0	0.76
74-83-9	Bromomethane	0.84	U	8.0	0.84
78-93-3	2-Butanone (MEK)	8.0	U	24	8.0
56-23-5	Carbon tetrachloride	0.76	U	4.0	0.76
108-90-7	Chlorobenzene	0.68	U	4.0	0.68
74-97-5	Bromochloromethane	0.40	U	4.0	0.40
124-48-1	Dibromochloromethane	0.68	U	4.0	0.68
75-00-3	Chloroethane	1.6	U	8.0	1.6
67-66-3	Chloroform	0.64	U	4.0	0.64
74-87-3	Chloromethane	1.2	U	8.0	1.2
95-49-8	2-Chlorotoluene	0.68	U	4.0	0.68
106-43-4	4-Chlorotoluene	0.84	U	4.0	0.84
156-59-2	cis-1,2-Dichloroethene	0.60	U	4.0	0.60
10061-01-5	cis-1,3-Dichloropropene	0.64	U	4.0	0.64
96-12-8	1,2-Dibromo-3-Chloropropane	1.9	U	20	1.9
106-93-4	1,2-Dibromoethane (EDB)	0.72	U	4.0	0.72
74-95-3	Dibromomethane	0.68	U	4.0	0.68
95-50-1	1,2-Dichlorobenzene	0.60	U	4.0	0.60
541-73-1	1,3-Dichlorobenzene	0.52	U	4.0	0.52
106-46-7	1,4-Dichlorobenzene	0.64	U	4.0	0.64
75-71-8	Dichlorodifluoromethane	1.2	U	8.0	1.2
75-34-3	1,1-Dichloroethane	0.88	U	4.0	0.88
107-06-2	1,2-Dichloroethane	0.52	U	4.0	0.52
75-35-4	1,1-Dichloroethene	0.92	U	4.0	0.92
540-59-0	1,2-Dichloroethene, Total	0.96	U	4.0	0.96
78-87-5	1,2-Dichloropropane	0.72	U	4.0	0.72
142-28-9	1,3-Dichloropropane	0.88	U	4.0	0.88
594-20-7	2,2-Dichloropropane	0.72	U	4.0	0.72
563-58-6	1,1-Dichloropropene	0.76	U	4.0	0.76
100-41-4	Ethylbenzene	0.64	U	4.0	0.64
87-68-3	Hexachlorobutadiene	0.48	U	4.0	0.48
591-78-6	2-Hexanone	6.8	U	20	6.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-18 | Lab Sample ID: 280-10064-4

Matrix: Water | Lab File ID: ms7248.D

Analysis Method: 8260B | Date Collected: 11/18/2010 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/01/2010 17:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.76	U	4.0	0.76
99-87-6	4-Isopropyltoluene	0.80	U	4.0	0.80
75-09-2	Methylene Chloride	1.3	U	8.0	1.3
108-10-1	4-Methyl-2-pentanone	3.9	U	20	3.9
1634-04-4	Methyl tert-butyl ether	1.0	U	20	1.0
179601-23-1	m-Xylene & p-Xylene	1.4	U	8.0	1.4
91-20-3	Naphthalene	0.88	U	4.0	0.88
104-51-8	n-Butylbenzene	0.56	U	4.0	0.56
103-65-1	n-Propylbenzene	0.64	U	4.0	0.64
95-47-6	o-Xylene	0.76	U	4.0	0.76
135-98-8	sec-Butylbenzene	1.6	J	4.0	0.68
100-42-5	Styrene	0.68	U	4.0	0.68
98-06-6	tert-Butylbenzene	0.64	U	4.0	0.64
630-20-6	1,1,1,2-Tetrachloroethane	0.84	U	4.0	0.84
79-34-5	1,1,2,2-Tetrachloroethane	0.84	U	4.0	0.84
127-18-4	Tetrachloroethene	0.80	U	4.0	0.80
108-88-3	Toluene	0.68	U	4.0	0.68
156-60-5	trans-1,2-Dichloroethene	0.60	U	4.0	0.60
10061-02-6	trans-1,3-Dichloropropene	0.76	U	12	0.76
87-61-6	1,2,3-Trichlorobenzene	0.84	U	4.0	0.84
120-82-1	1,2,4-Trichlorobenzene	0.84	U	4.0	0.84
71-55-6	1,1,1-Trichloroethane	0.64	U	4.0	0.64
79-00-5	1,1,2-Trichloroethane	1.1	U	4.0	1.1
79-01-6	Trichloroethene	0.64	U	4.0	0.64
75-69-4	Trichlorofluoromethane	1.2	U	8.0	1.2
96-18-4	1,2,3-Trichloropropane	1.3	U	10	1.3
95-63-6	1,2,4-Trimethylbenzene	0.60	U	4.0	0.60
108-67-8	1,3,5-Trimethylbenzene	0.64	U	4.0	0.64
75-01-4	Vinyl chloride	1.6	U	4.0	1.6
1330-20-7	Xylenes, Total	0.76	U	8.0	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-18 Lab Sample ID: 280-10064-4

Matrix: Water Lab File ID: ms7248.D

Analysis Method: 8260B Date Collected: 11/18/2010 09:00

Sample wt/vol: 5(mL) Date Analyzed: 12/01/2010 17:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		78-120
1868-53-7	Dibromofluoromethane (Surr)	88		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-127
2037-26-5	Toluene-d8 (Surr)	98		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7248.D
Lab Smp Id: 280-10064-A-4 Client Smp ID: MW-18
Inj Date : 01-DEC-2010 17:59
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : 280-10064-a-4,5,PH<2 FOAMY!
Misc Info : 280-10064-A-4
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\8260B-H2OAFC.m
Meth Date : 02-Dec-2010 08:46 dobranskym Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC096

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
*	60 Fluorobenzene	96	8.354	8.354	(1.000)	2438687	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	519024	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.544	12.544	(1.000)	680254	12.5000	
$	49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	501438	10.5332	42.1328
$	55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	510797	11.1959	44.7836
$	73 Toluene-d8	98	9.499	9.499	(0.895)	2791676	11.7636	47.0542
$	96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	807287	11.0653	44.2611
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	13 Ethanol	45	Compound Not Detected.					
	15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	17 Ethyl Ether	59	Compound Not Detected.					
	16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
20 Trichlorotrifluoroethane	151	Compound Not Detected.					
21 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	Compound Not Detected.					
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
57 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
56 TAME	73	Compound Not Detected.					
59 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	8.829	8.829	(1.057)	35360	0.31554	1.26216(a)
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
88	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
87	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
90	o-Xylene	106	Compound Not Detected.					
91	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	Compound Not Detected.					
100	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	12.320	12.320	(0.982)	26967	0.40925	1.63699(aQ)
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
111	1,4-dichlorobenzene	146	Compound Not Detected.					
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
117	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
118	Hexachlorobutadiene	225	Compound Not Detected.					
119	Naphthalene	128	Compound Not Detected.					
120	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

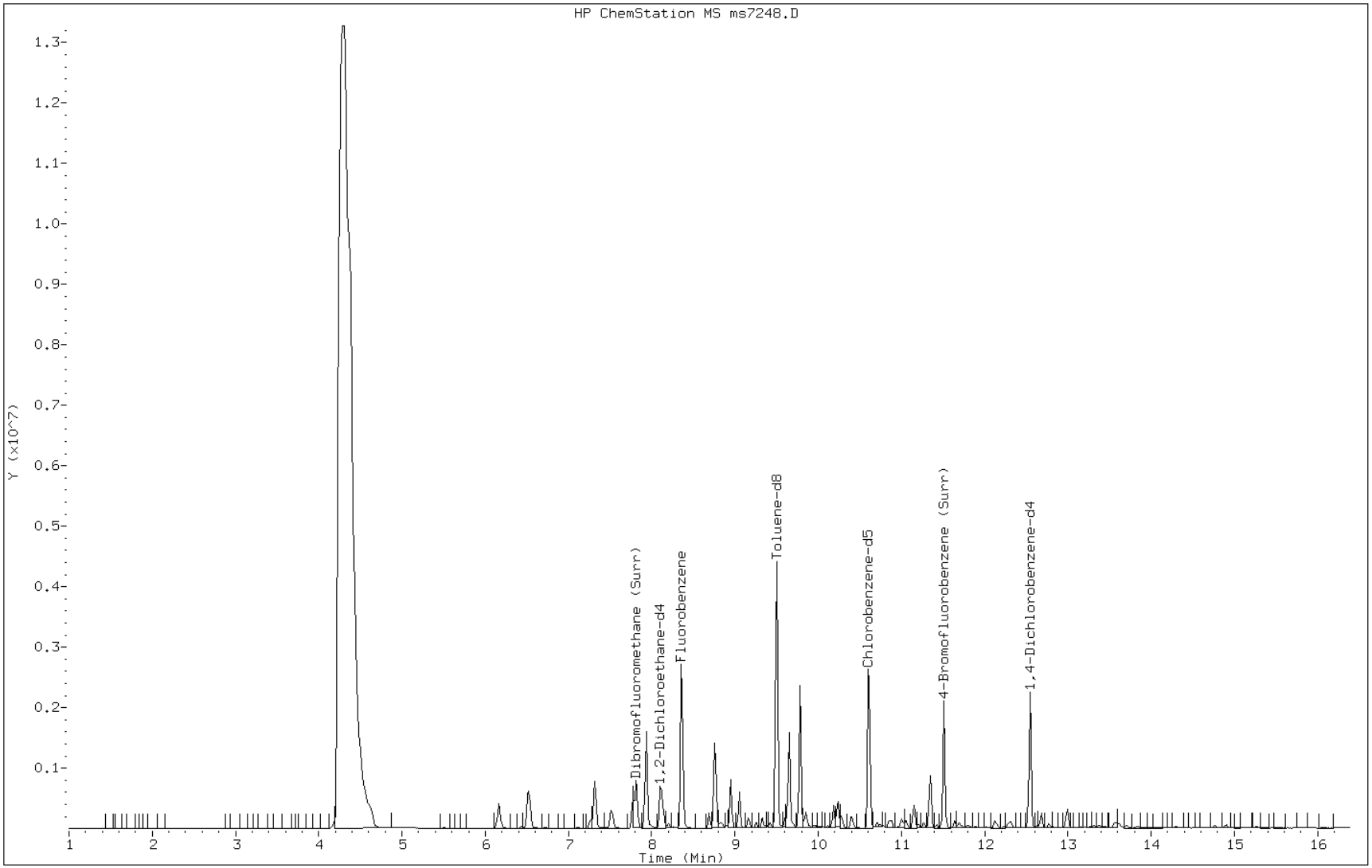
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms7248.D

Date: 01-DEC-2010 17:59

Client ID: MW-18 Instrument: GCMS1.i

Sample Info: 280-10064-a-4,5,PH<2 FOAMY! Operator: DOBRANSKYM



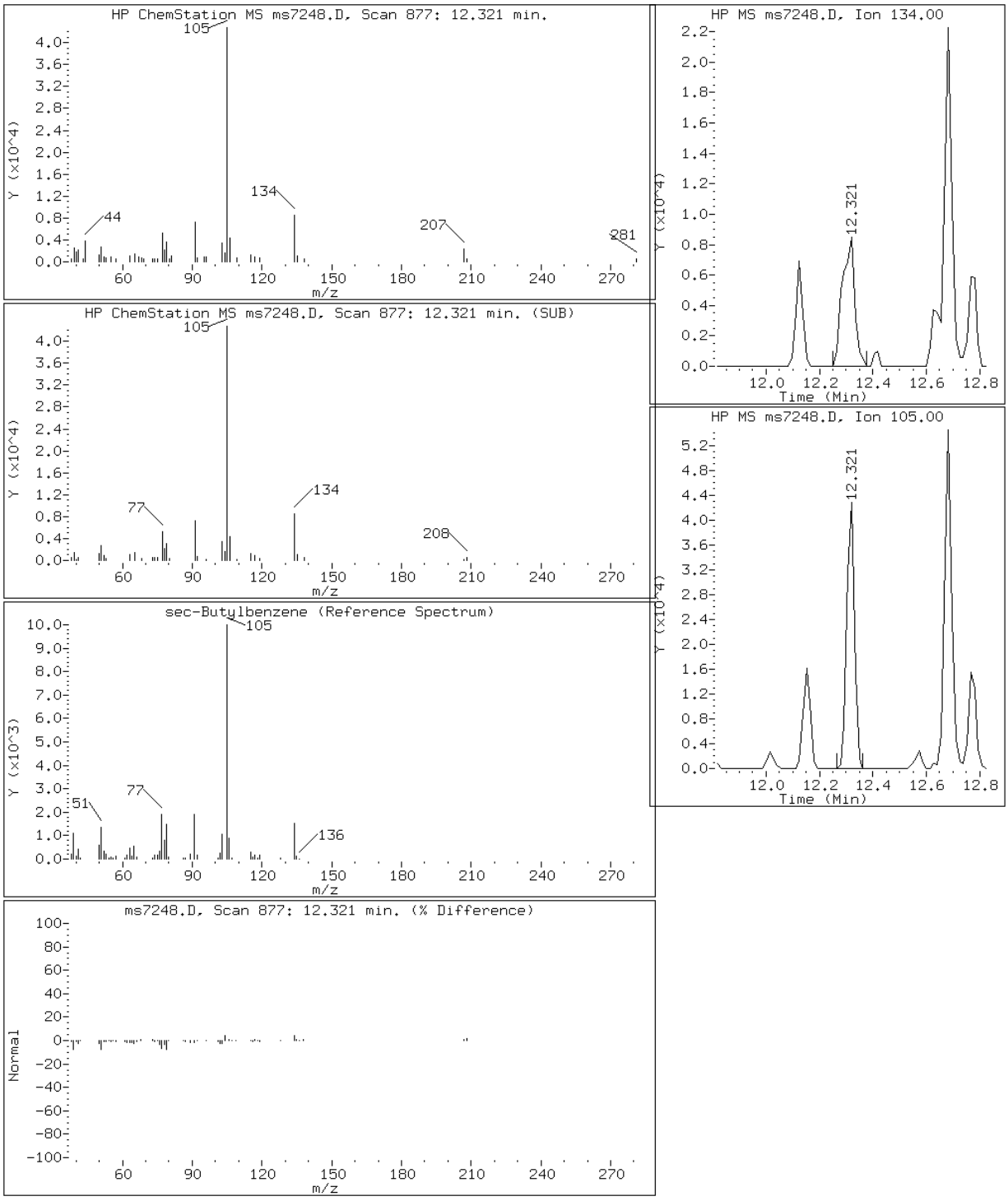
Data File: ms7248.D

Date: 01-DEC-2010 17:59

Client ID: MW-18 Instrument: GCMS1.i

Sample Info: 280-10064-a-4,5,PH<2 FOAMY! Operator: DOBRANSKYM

107 sec-Butylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-17 | Lab Sample ID: 280-10064-5

Matrix: Water | Lab File ID: g2_7883.D

Analysis Method: 8260B | Date Collected: 11/18/2010 09:45

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 22:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	20		1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	2.8		1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-17 | Lab Sample ID: 280-10064-5

Matrix: Water | Lab File ID: g2_7883.D

Analysis Method: 8260B | Date Collected: 11/18/2010 09:45

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 22:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.44	J	1.0	0.19
99-87-6	4-Isopropyltoluene	0.30	J	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	4.0		2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.52	J	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.63	J	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.18	J	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	2.3		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.36	J	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	4.0		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-17 Lab Sample ID: 280-10064-5

Matrix: Water Lab File ID: g2_7883.D

Analysis Method: 8260B Date Collected: 11/18/2010 09:45

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 22:56

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43492 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		78-120
1868-53-7	Dibromofluoromethane (Surr)	83		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-127
2037-26-5	Toluene-d8 (Surr)	101		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7883.D
Lab Smp Id: 280-10064-C-5 Client Smp ID: MW-17
Inj Date : 01-DEC-2010 22:56
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : 280-10064-c-5,,pH<2
Misc Info : 280-10064-C-5
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC277

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

							CONCENTRATIONS	
		QUANT SIG					ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	977920	10.0000	
*	85 Chlorobenzene-d5	119	10.126	10.126	(1.000)	190975	10.0000	
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	252942	10.0000	(Q)
$	49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	180697	8.26354	8.26354
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	201902	9.76132	9.76132
$	73 Toluene-d8	98	9.032	9.039	(0.892)	936349	10.1127	10.1127
$	96 4-Bromofluorobenzene (Surr)	95	10.998	11.006	(1.086)	339315	9.35360	9.35360
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106				214142	4.04623	4.04623
M	3 1,3-Dichloropropene (total)	100	Compound Not Detected.					
M	4 Trihalomethanes (total)	100	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	14 Ethanol	45	Compound Not Detected.					
	17 Ethyl Ether	59	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	Compound Not Detected.					
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	6.386	6.387	(0.631)	52802	0.91099	0.910990(a)
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	7.480	7.481	(0.952)	409988	4.68333	4.68333
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
56 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	7.688	7.688	(0.978)	2346403	19.6204	19.6204
57 TAME	73	Compound Not Detected.					
60 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	8.346	8.346	(1.062)	535777	7.63906	7.63906
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	9.089	9.089	(1.156)	20945	0.17655	0.176554(a)
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
87	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88	Ethylbenzene	106	10.183	10.190	(1.006)	118462	2.78676	2.78676
89	m and p-Xylene	106	10.262	10.269	(1.013)	214142	4.04623	4.04623
91	o-Xylene	106	Compound Not Detected.					
90	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	10.848	10.855	(0.905)	53432	0.43718	0.437184(a)
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	Compound Not Detected.					
100	n-Propylbenzene	120	11.177	11.184	(0.932)	19111	0.52487	0.524874(a)
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	11.284	11.292	(0.941)	38389	0.35567	0.355668(a)
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	11.620	11.628	(0.969)	253806	2.34600	2.34600(Q)
107	sec-Butylbenzene	134	11.778	11.785	(0.982)	17559	0.62790	0.627902(aQ)
108	4-Isopropyltoluene	119	11.871	11.878	(0.990)	35452	0.29916	0.299160(a)
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
112	1,4-dichlorobenzene	146	Compound Not Detected.					
111	1,2,3-Trimethylbenzene	105	12.014	12.021	(1.002)	296368	2.92485	2.92485
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117	Hexachlorobutadiene	225	Compound Not Detected.					
118	Naphthalene	128	Compound Not Detected.					
119	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

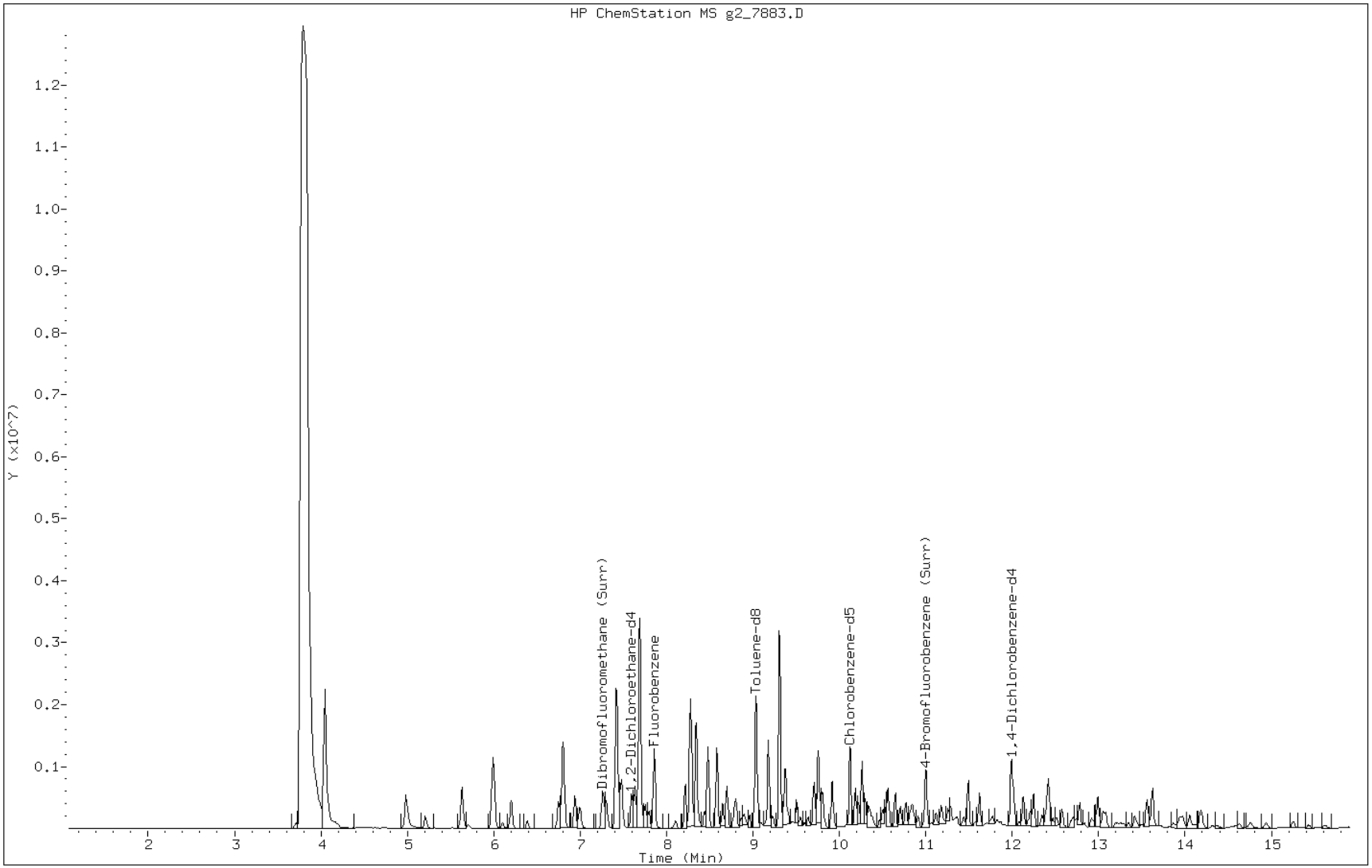
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7883.D

Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD



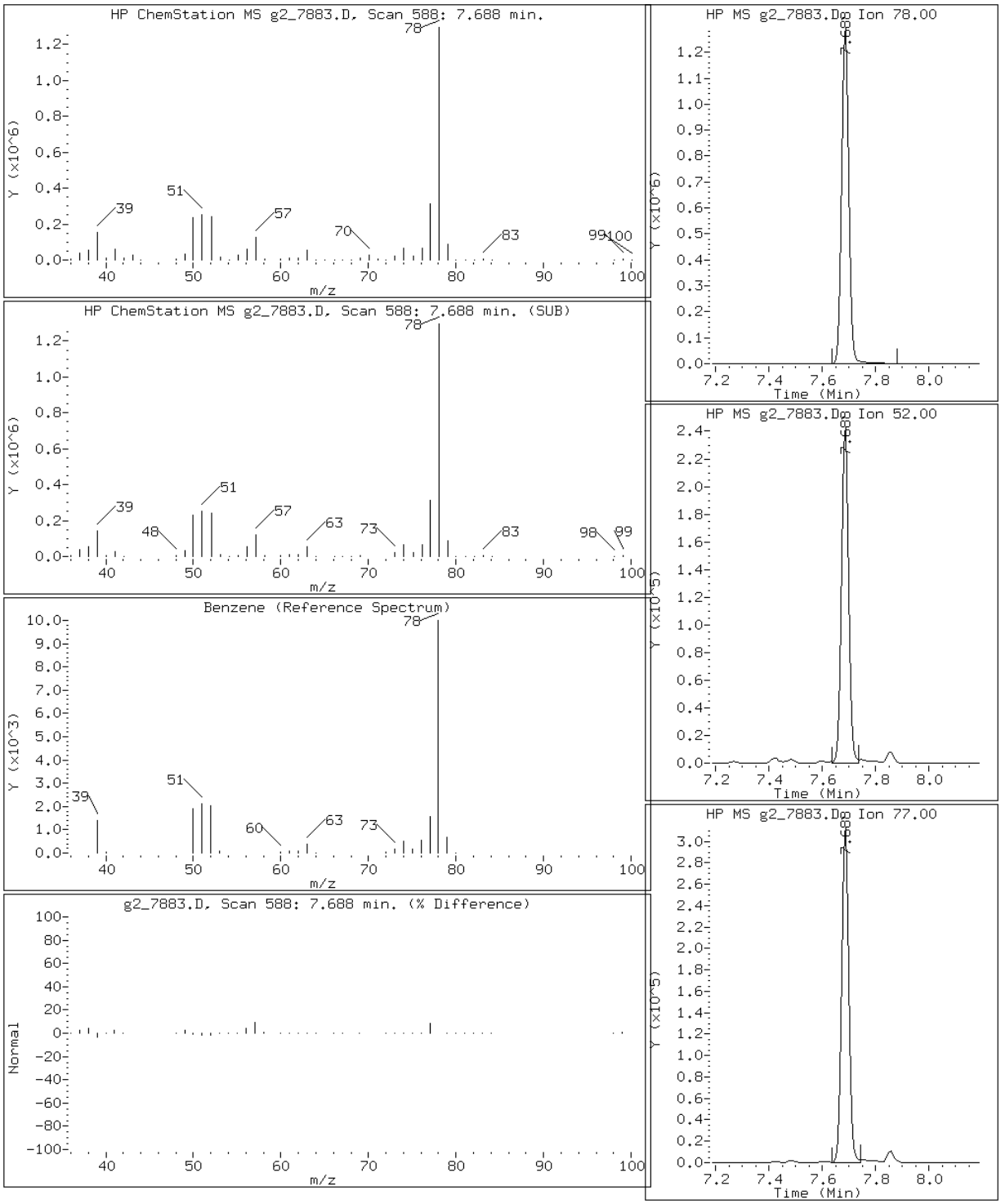
Data File: g2_7883.D

Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD

58 Benzene



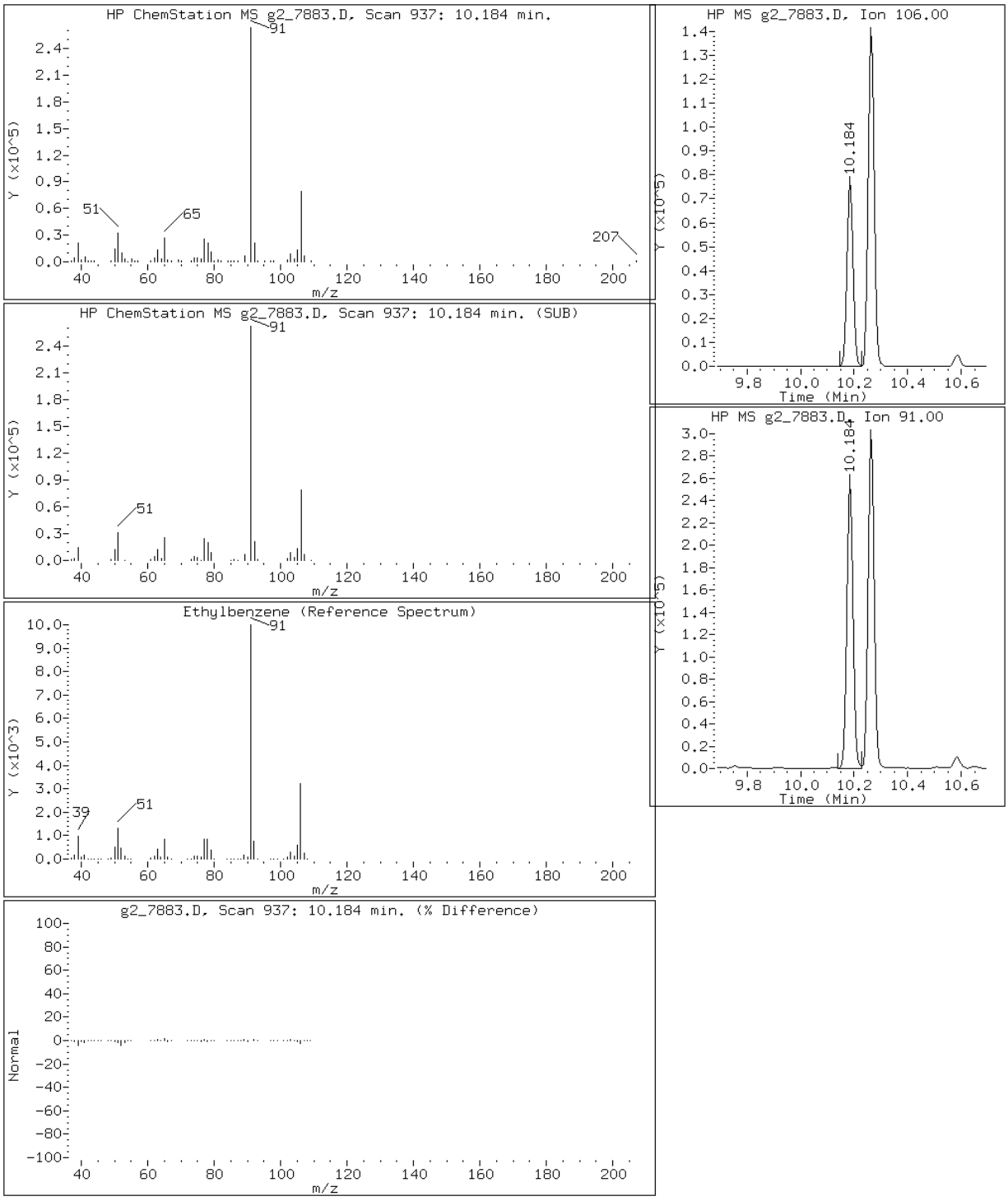
Data File: g2_7883.D

Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD

88 Ethylbenzene



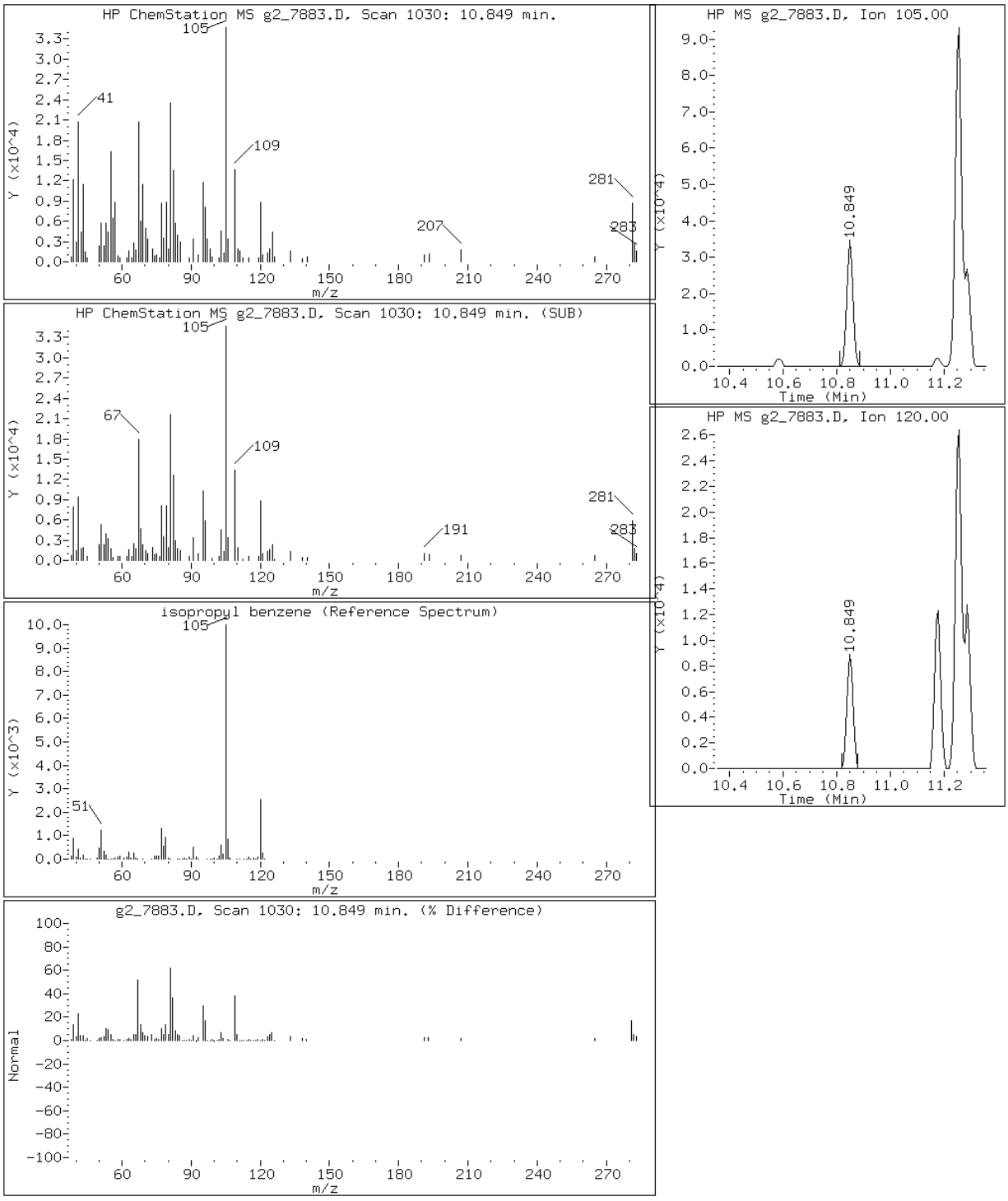
Data File: g2_7883.D

Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD

93 isopropyl benzene



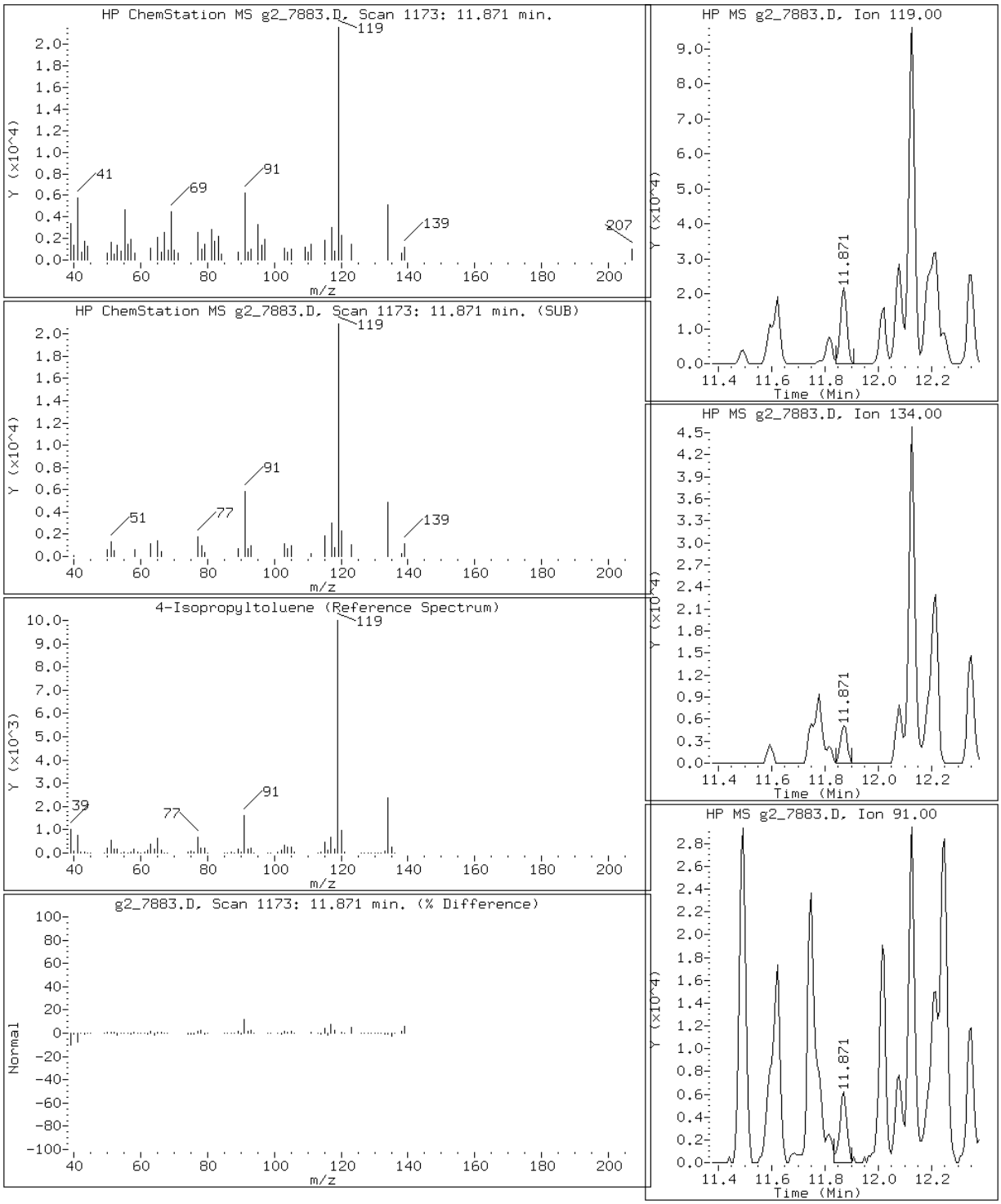
Data File: g2_7883.D

Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD

108 4-Isopropyltoluene



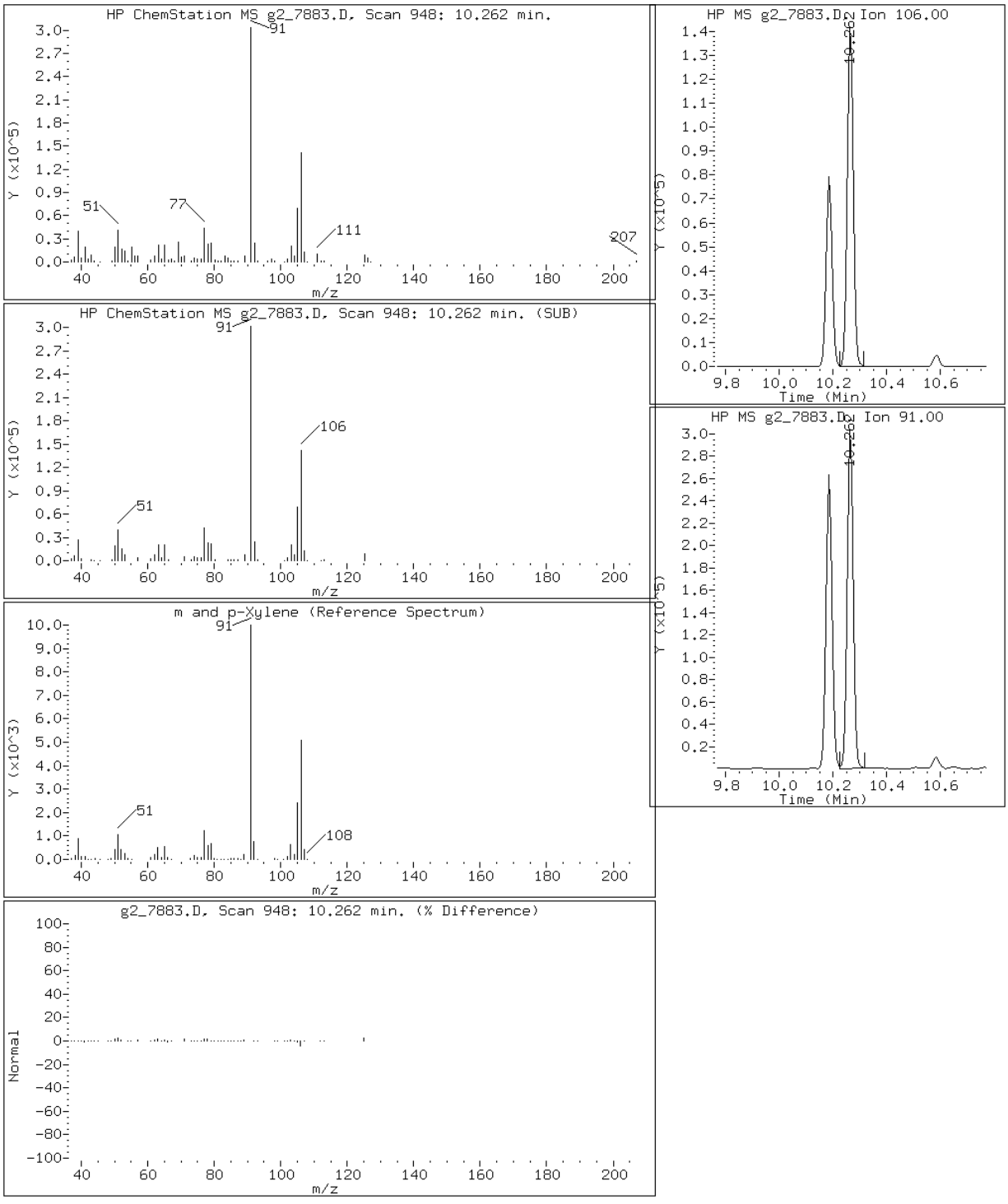
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Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD

89 m and p-Xylene



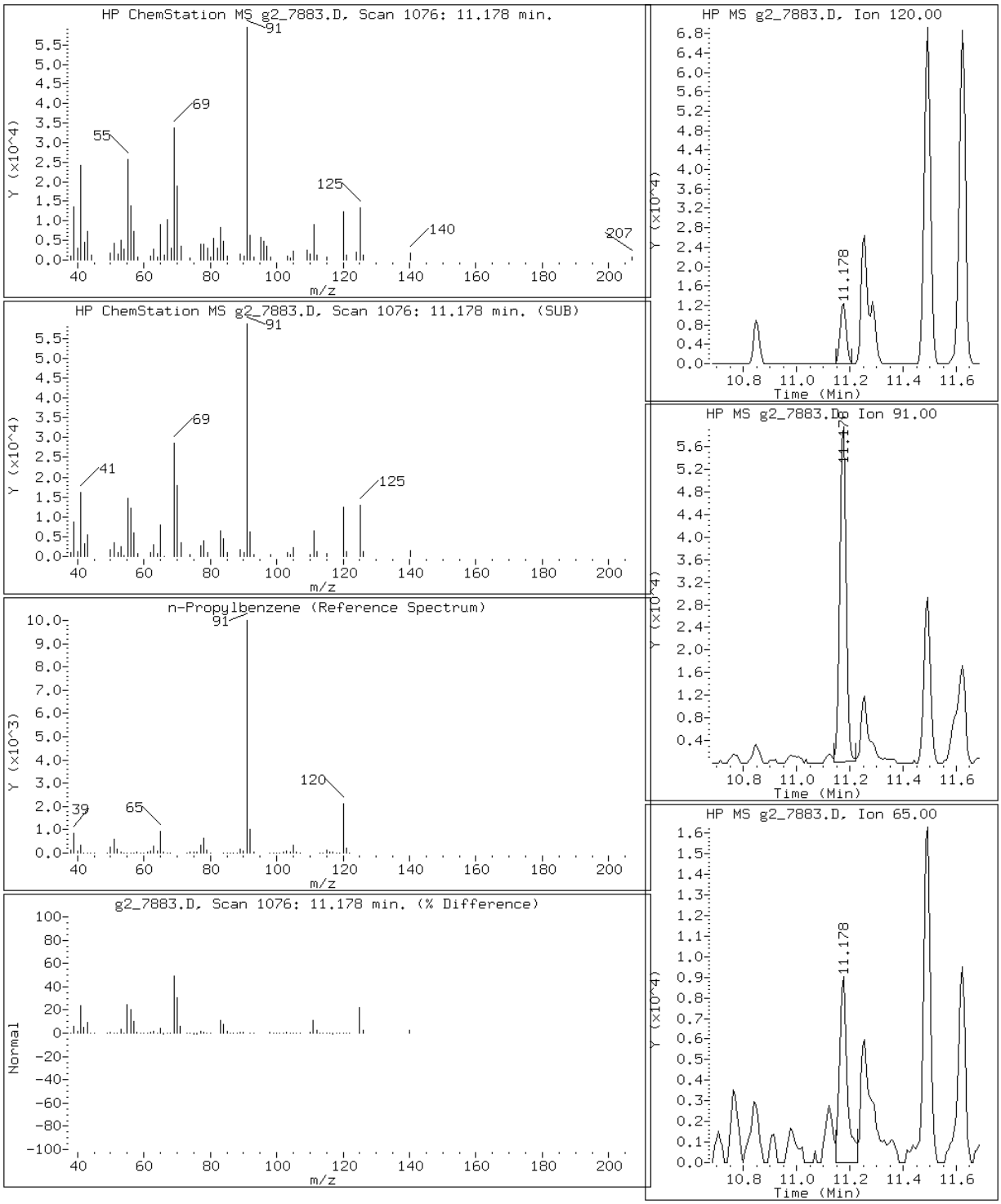
Data File: g2_7883.D

Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD

100 n-Propylbenzene



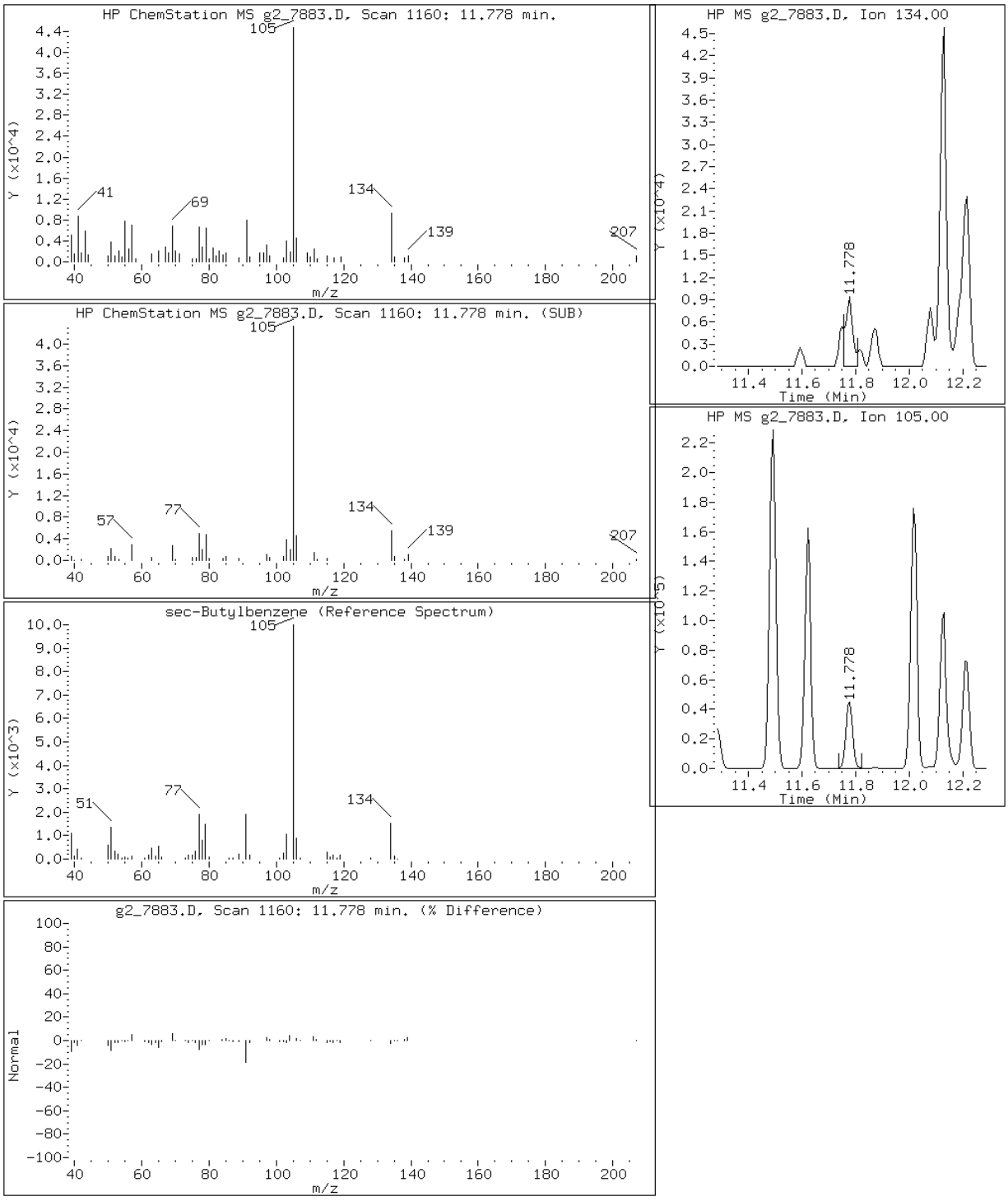
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Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD

107 sec-Butylbenzene



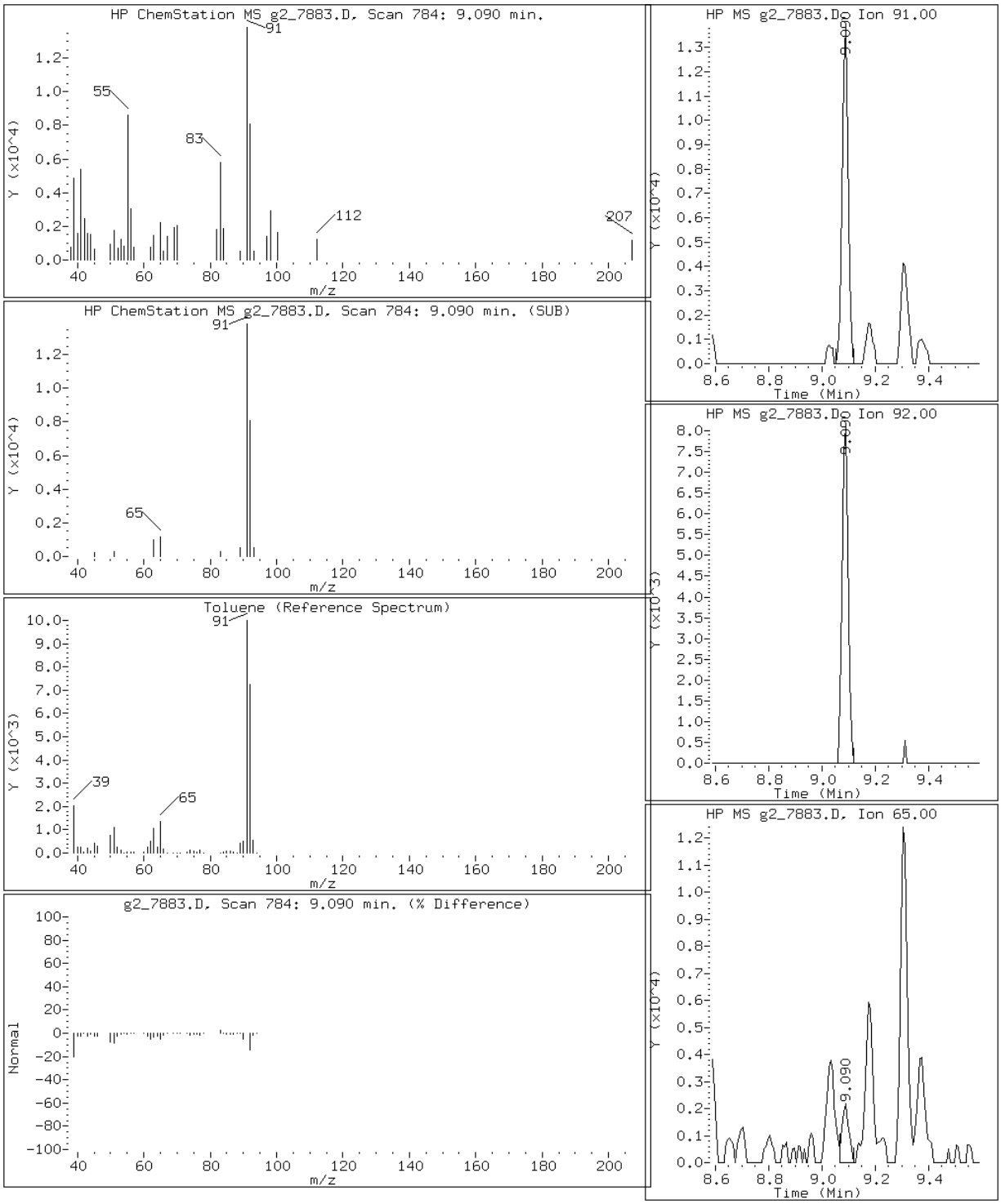
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Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD

74 Toluene



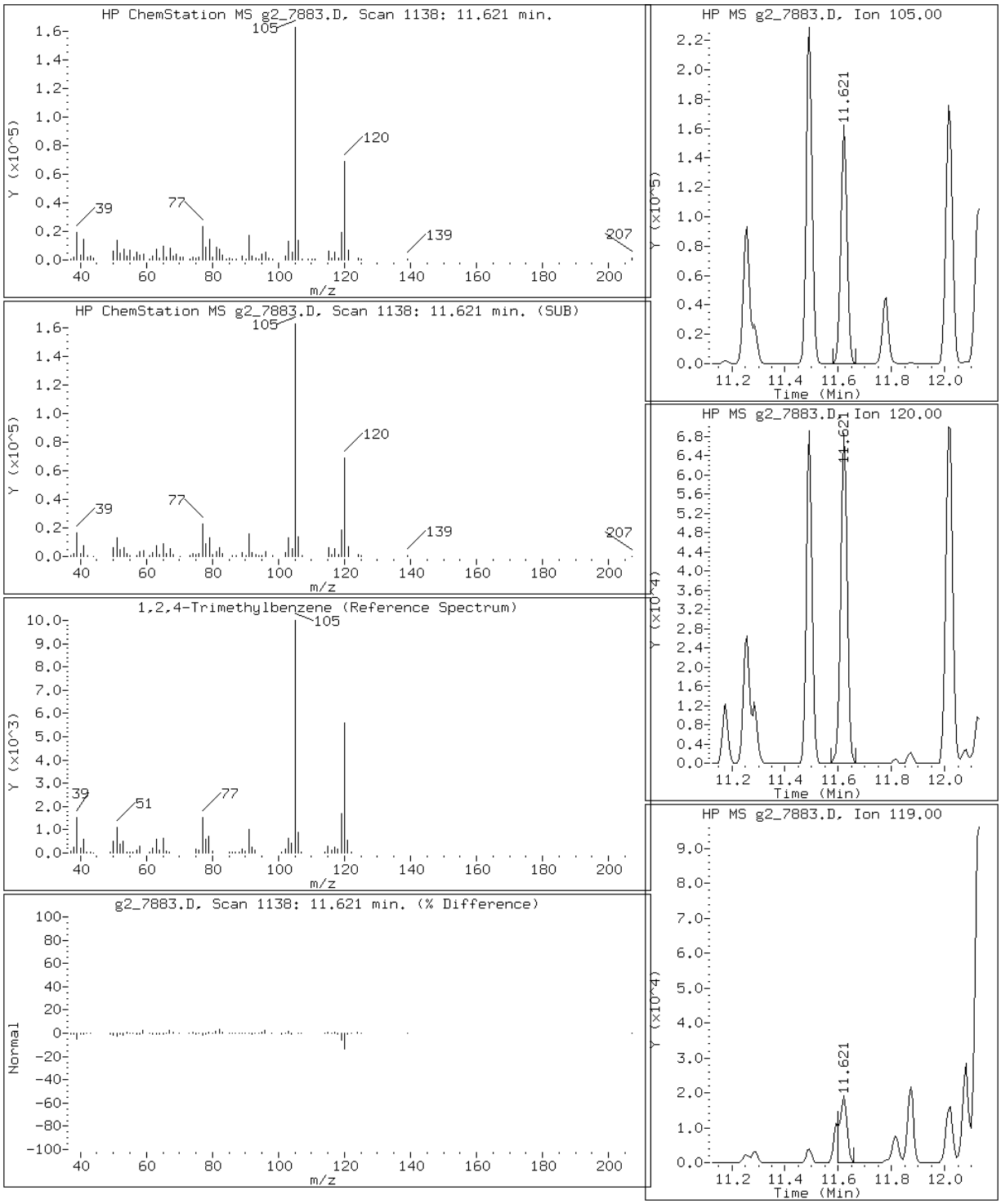
Data File: g2_7883.D

Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD

106 1,2,4-Trimethylbenzene



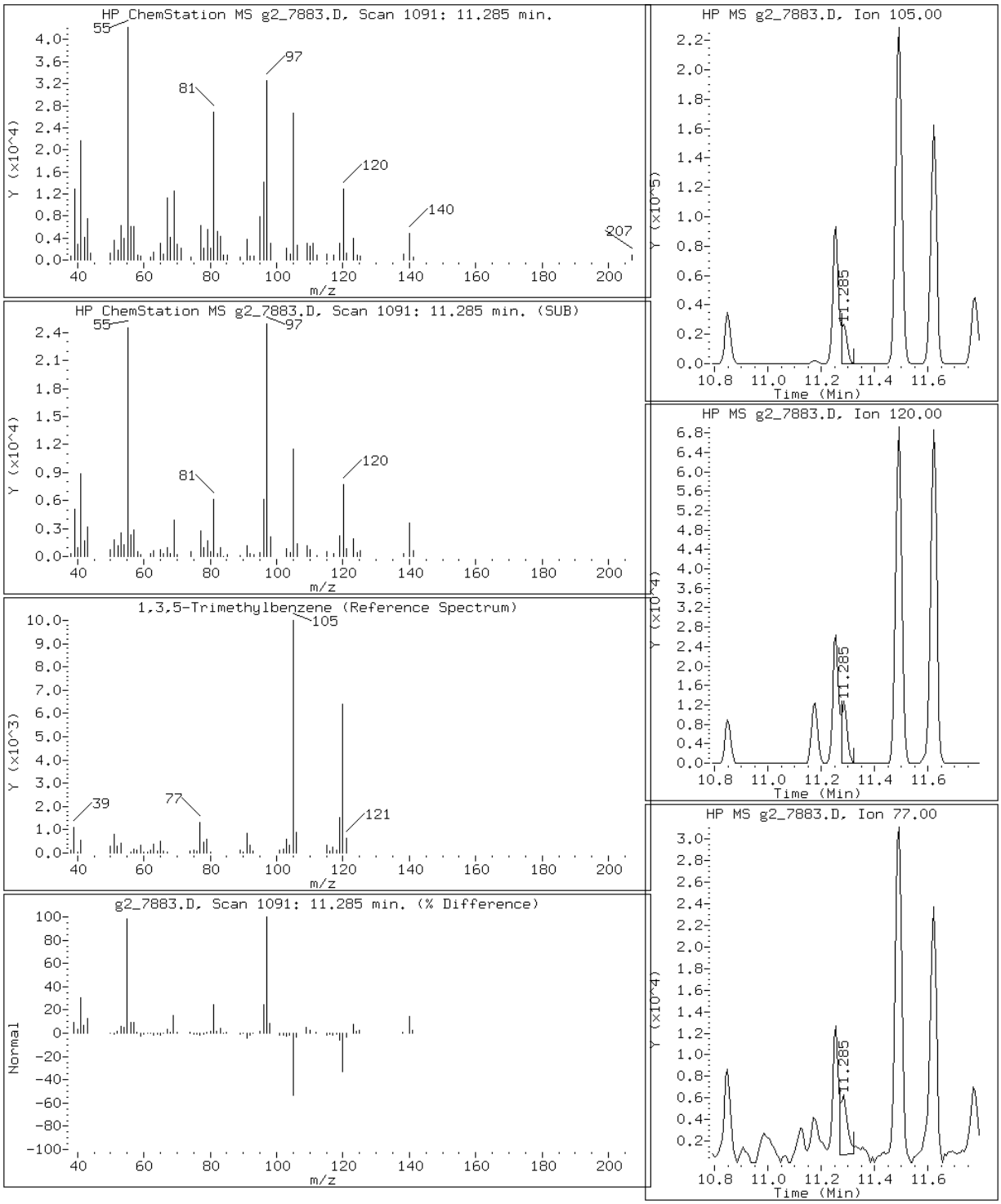
Data File: g2_7883.D

Date: 01-DEC-2010 22:56

Client ID: MW-17 Instrument: GCMS2.i

Sample Info: 280-10064-c-5,,pH<2 Operator: ILCZYSZD

102 1,3,5-Trimethylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-22 | Lab Sample ID: 280-10064-6

Matrix: Water | Lab File ID: g2_7884.D

Analysis Method: 8260B | Date Collected: 11/18/2010 10:35

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 23:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	16		1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	22		1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-22 | Lab Sample ID: 280-10064-6

Matrix: Water | Lab File ID: g2_7884.D

Analysis Method: 8260B | Date Collected: 11/18/2010 10:35

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 23:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.8		1.0	0.19
99-87-6	4-Isopropyltoluene	0.65	J	1.0	0.20
75-09-2	Methylene Chloride	0.49	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	1.5		1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	14		1.0	0.16
95-47-6	o-Xylene	0.22	J	1.0	0.19
135-98-8	sec-Butylbenzene	2.7		1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.31	J	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	12		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	0.22	J	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-22 Lab Sample ID: 280-10064-6

Matrix: Water Lab File ID: g2_7884.D

Analysis Method: 8260B Date Collected: 11/18/2010 10:35

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 23:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43492 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-127
2037-26-5	Toluene-d8 (Surr)	105		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7884.D
Lab Smp Id: 280-10064-A-6 Client Smp ID: MW-22
Inj Date : 01-DEC-2010 23:15
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : 280-10064-a-6,,pH<2
Misc Info : 280-10064-A-6
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC277

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

							CONCENTRATIONS	
		QUANT SIG					ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	678128	10.0000	
*	85 Chlorobenzene-d5	119	10.119	10.126	(1.000)	128980	10.0000	
*	110 1,4-Dichlorobenzene-d4	152	11.985	11.992	(1.000)	212507	10.0000	(Q)
$	49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	137876	9.09276	9.09276
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	147118	10.2571	10.2571
$	73 Toluene-d8	98	9.032	9.039	(0.893)	655841	10.4878	10.4878
$	96 4-Bromofluorobenzene (Surr)	95	10.998	11.006	(1.087)	251379	10.2603	10.2603
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106				7359	0.21547	0.215471(a)
M	3 1,3-Dichloropropene (total)	100	Compound Not Detected.					
M	4 Trihalomethanes (total)	100	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	13 Trichlorofluoromethane	101	Compound Not Detected.					
	14 Ethanol	45	Compound Not Detected.					
	17 Ethyl Ether	59	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	5.959	5.973	(0.758)	7854	0.48686	0.486862(aQ)
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	6.386	6.387	(0.631)	27656	0.70649	0.706491(a)
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	7.480	7.481	(0.952)	345076	5.68447	5.68447
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
56 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	7.688	7.688	(0.978)	1313677	15.8411	15.8411
57 TAME	73	Compound Not Detected.					
60 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	8.339	8.346	(1.061)	519119	10.6737	10.6737
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	9.082	9.089	(1.156)	25431	0.30914	0.309139(a)
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
87	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88	Ethylbenzene	106	10.183	10.190	(1.006)	639593	22.2781	22.2781
89	m and p-Xylene	106	Compound Not Detected.					
91	o-Xylene	106	10.584	10.591	(1.046)	7359	0.21547	0.215471(a)
90	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	10.848	10.855	(0.905)	595950	5.80391	5.80391
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	Compound Not Detected.					
100	n-Propylbenzene	120	11.170	11.184	(0.932)	435602	14.2400	14.2400
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	11.620	11.628	(0.970)	1120690	12.3299	12.3299(Q)
107	sec-Butylbenzene	134	11.778	11.785	(0.983)	64000	2.72408	2.72408
108	4-Isopropyltoluene	119	11.871	11.878	(0.990)	65073	0.65360	0.653599(a)
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
112	1,4-dichlorobenzene	146	Compound Not Detected.					
111	1,2,3-Trimethylbenzene	105	12.014	12.021	(1.002)	1286311	15.1100	15.1100
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117	Hexachlorobutadiene	225	Compound Not Detected.					
118	Naphthalene	128	14.516	14.538	(1.211)	50606	1.46932	1.46932
119	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

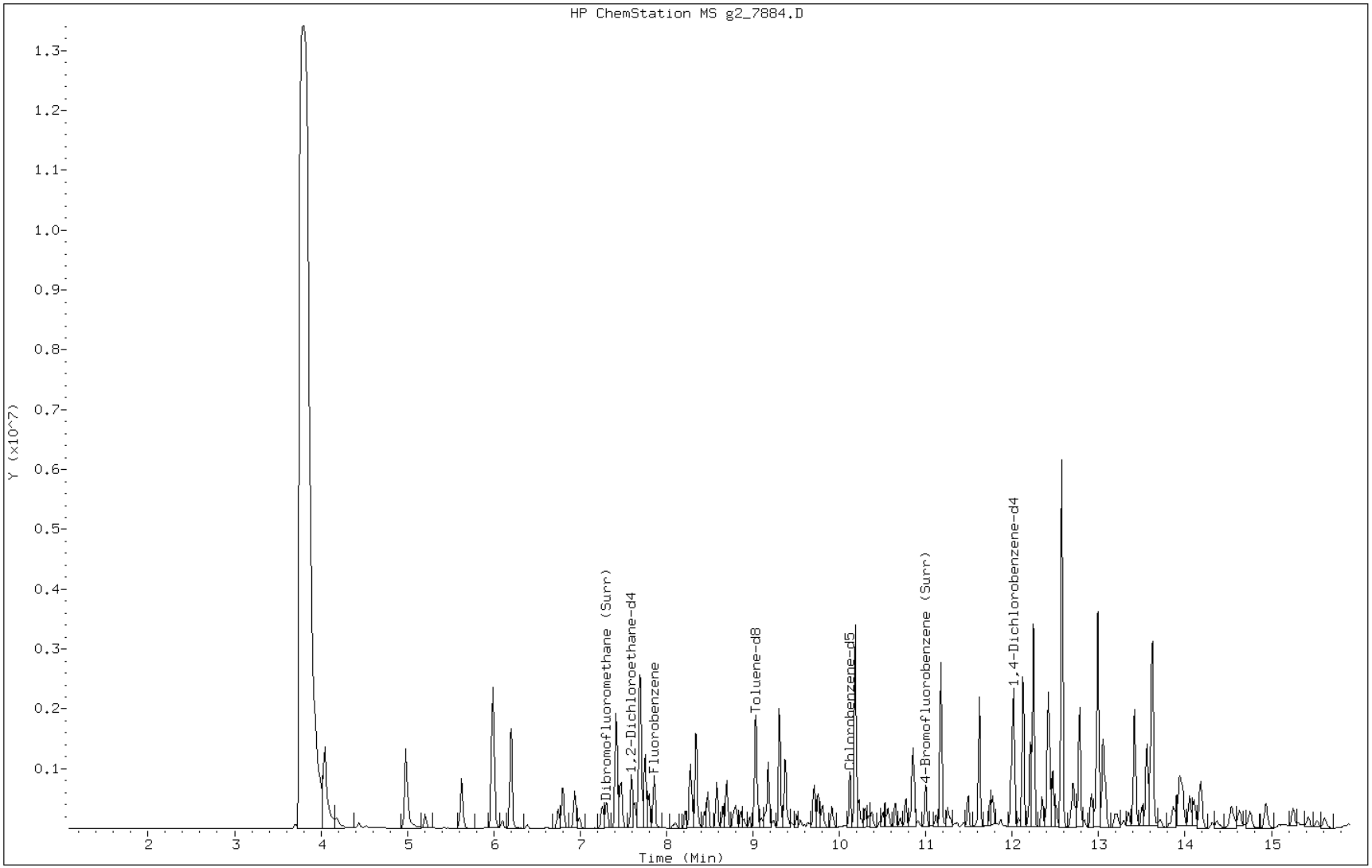
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD



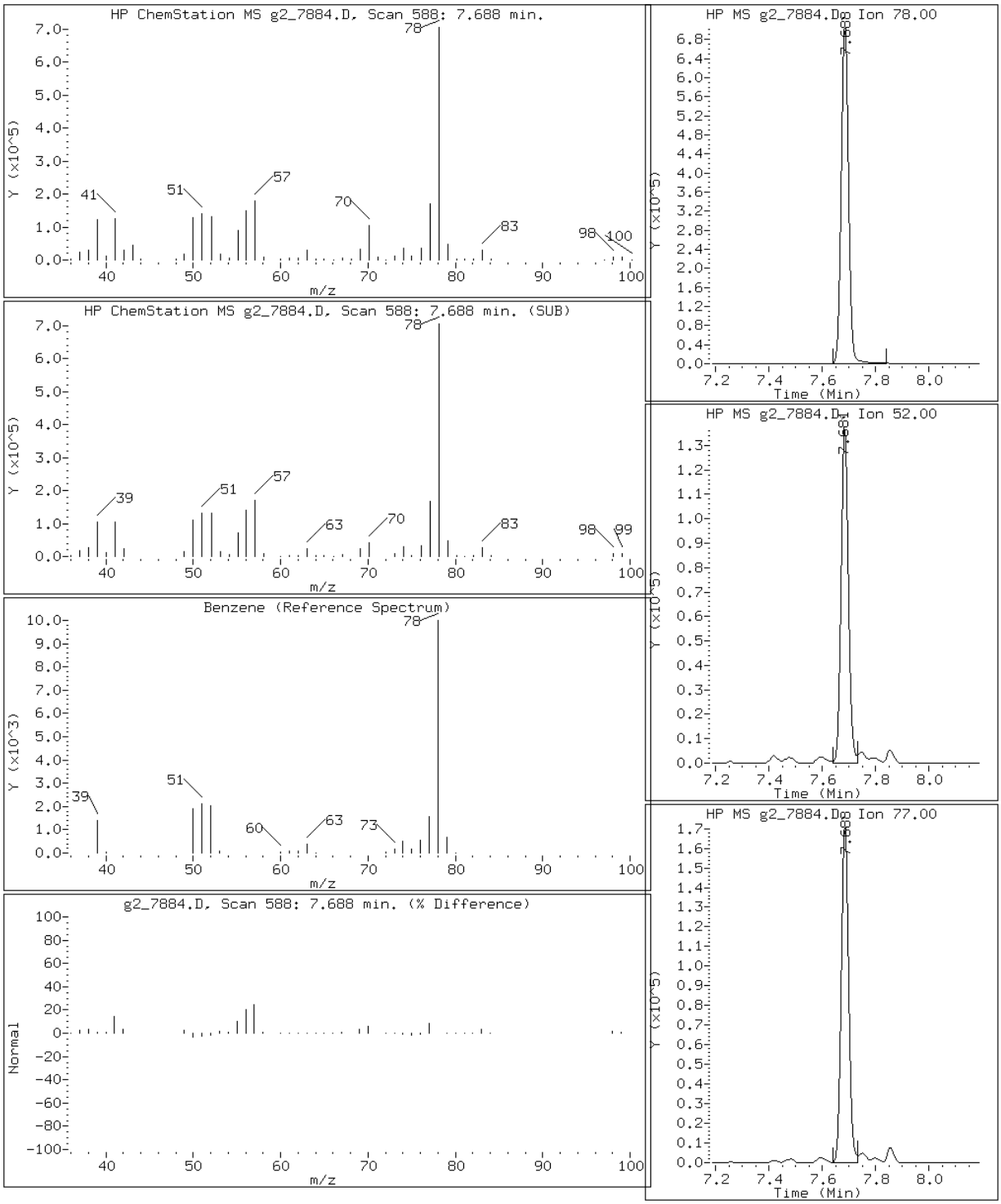
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

58 Benzene



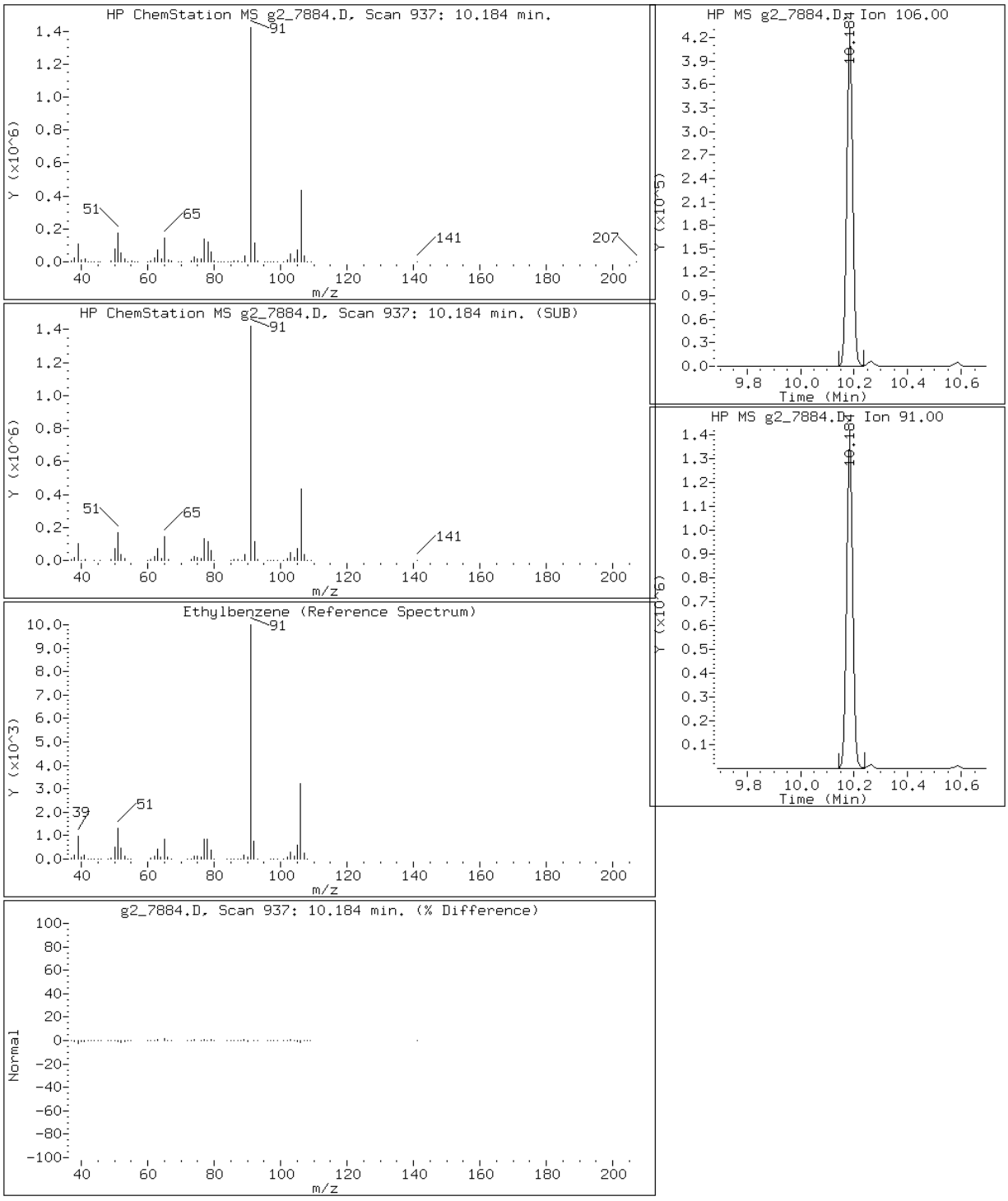
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

88 Ethylbenzene



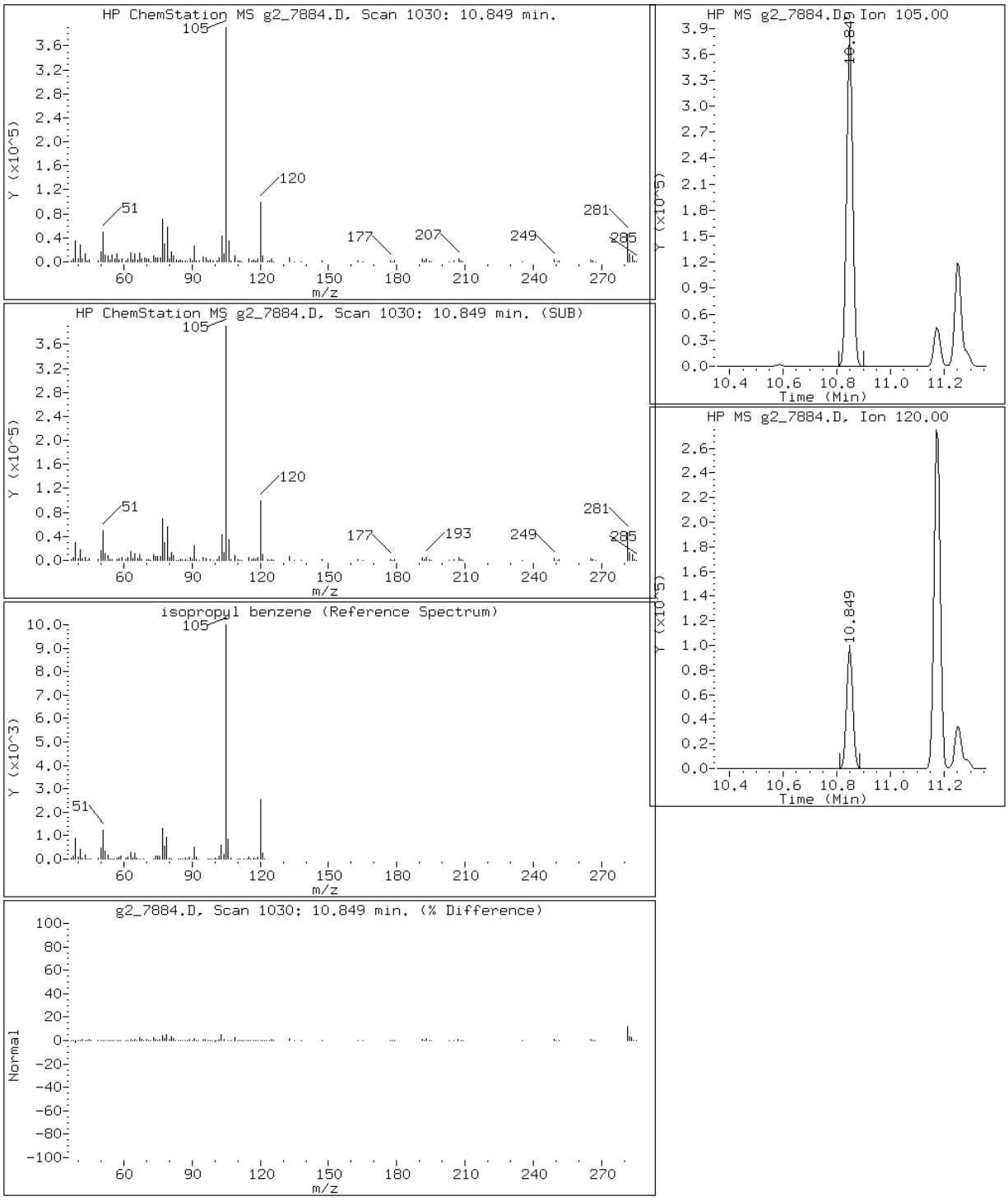
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

93 isopropyl benzene



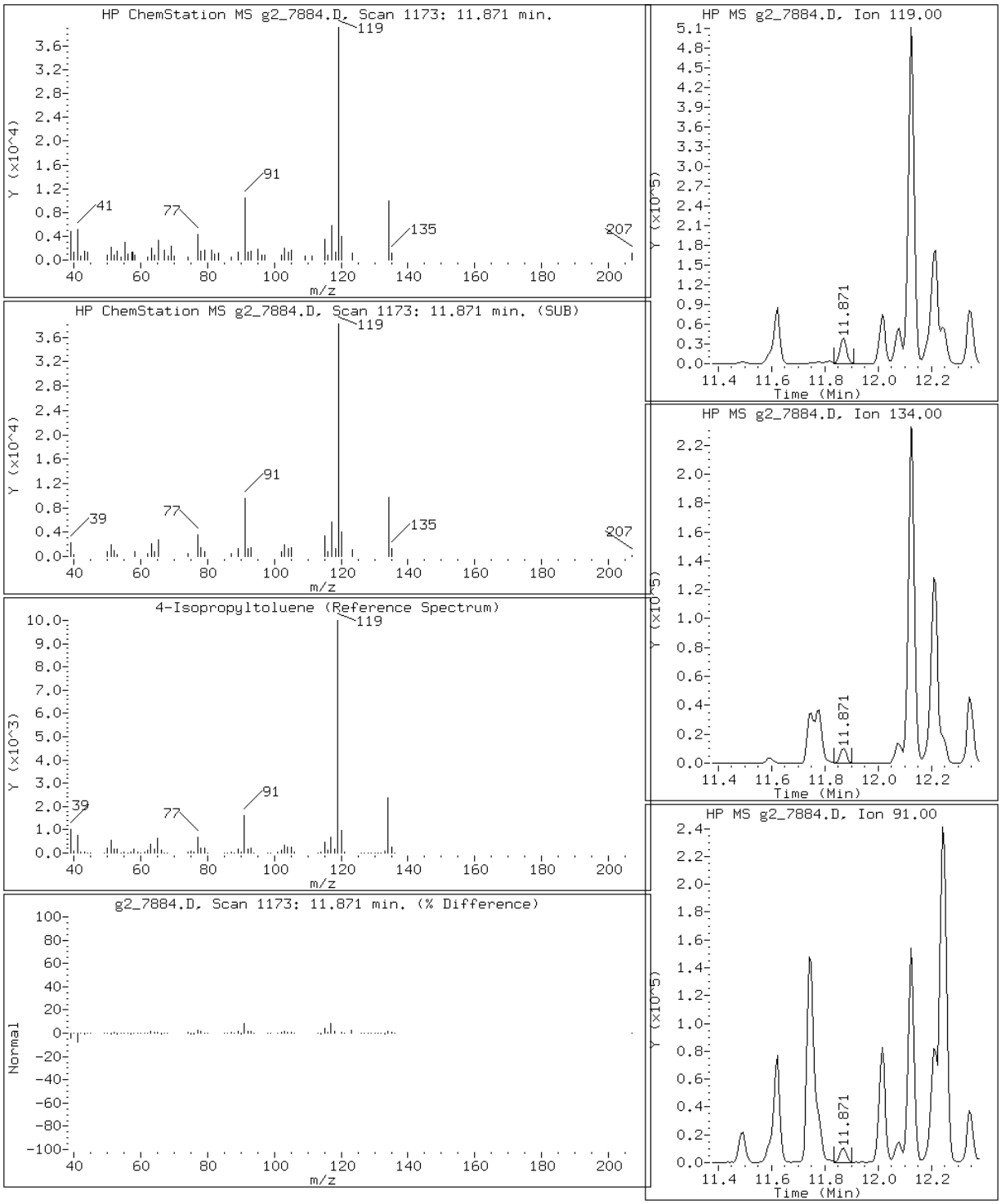
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

108 4-Isopropyltoluene



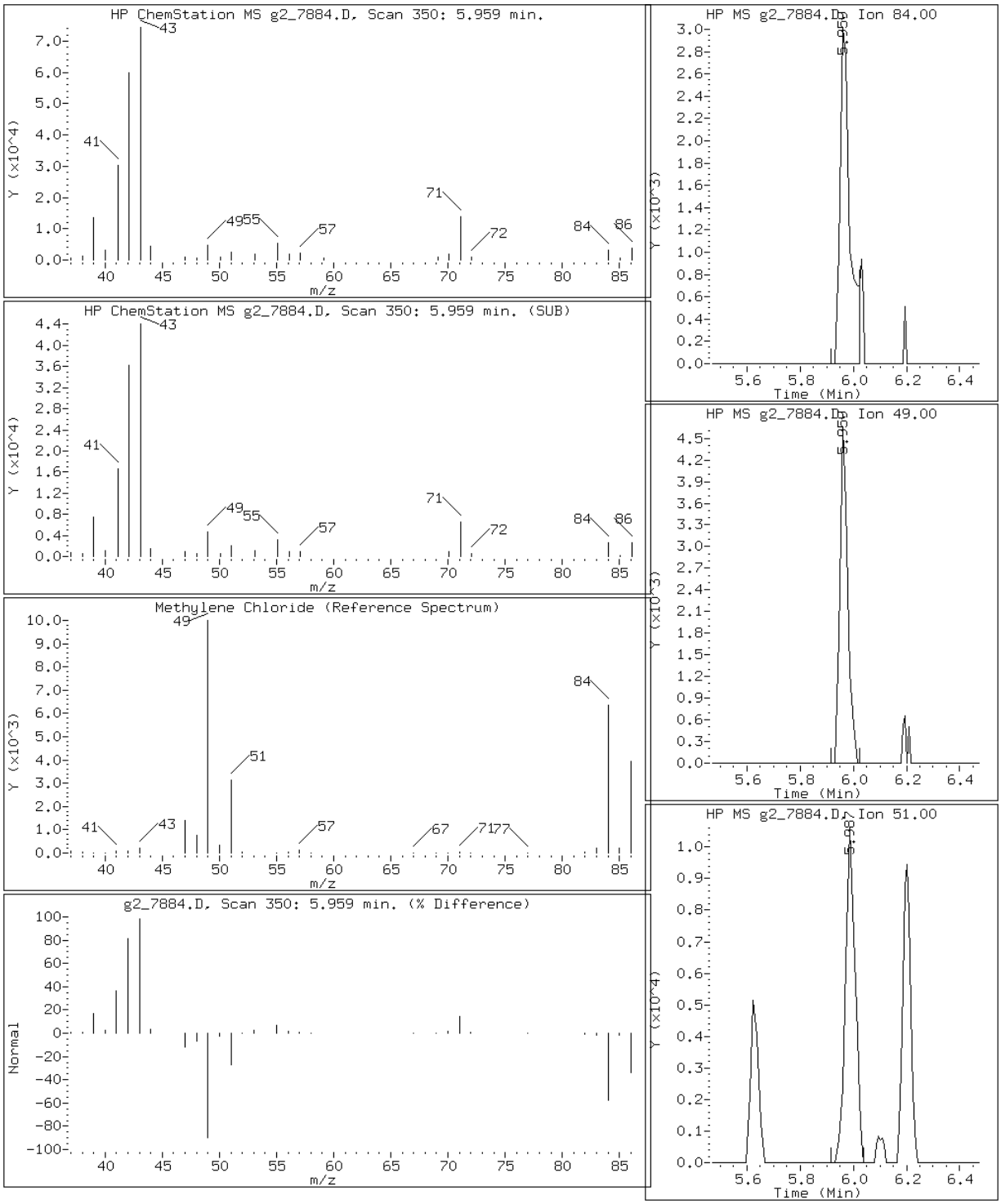
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

30 Methylene Chloride



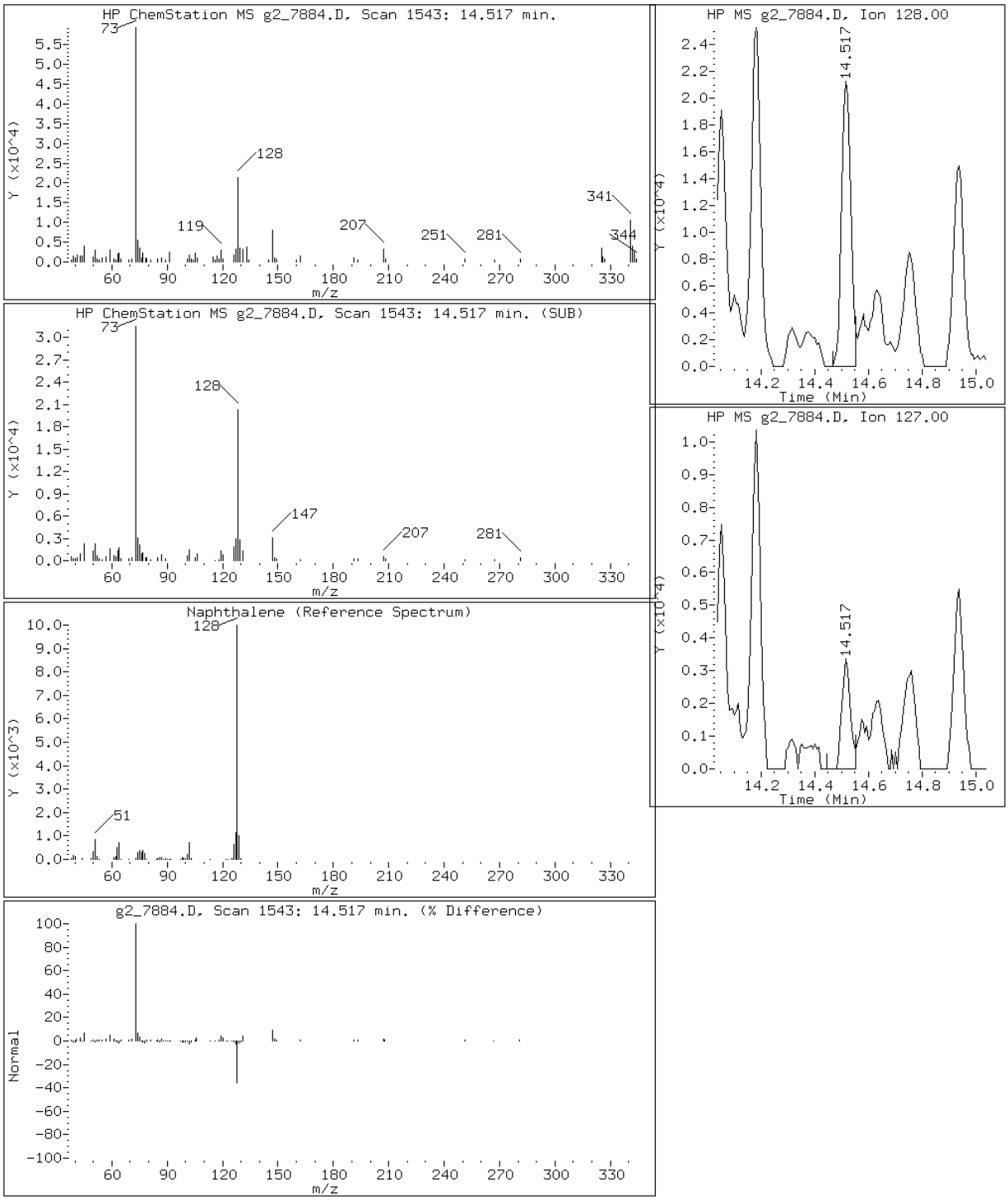
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

118 Naphthalene



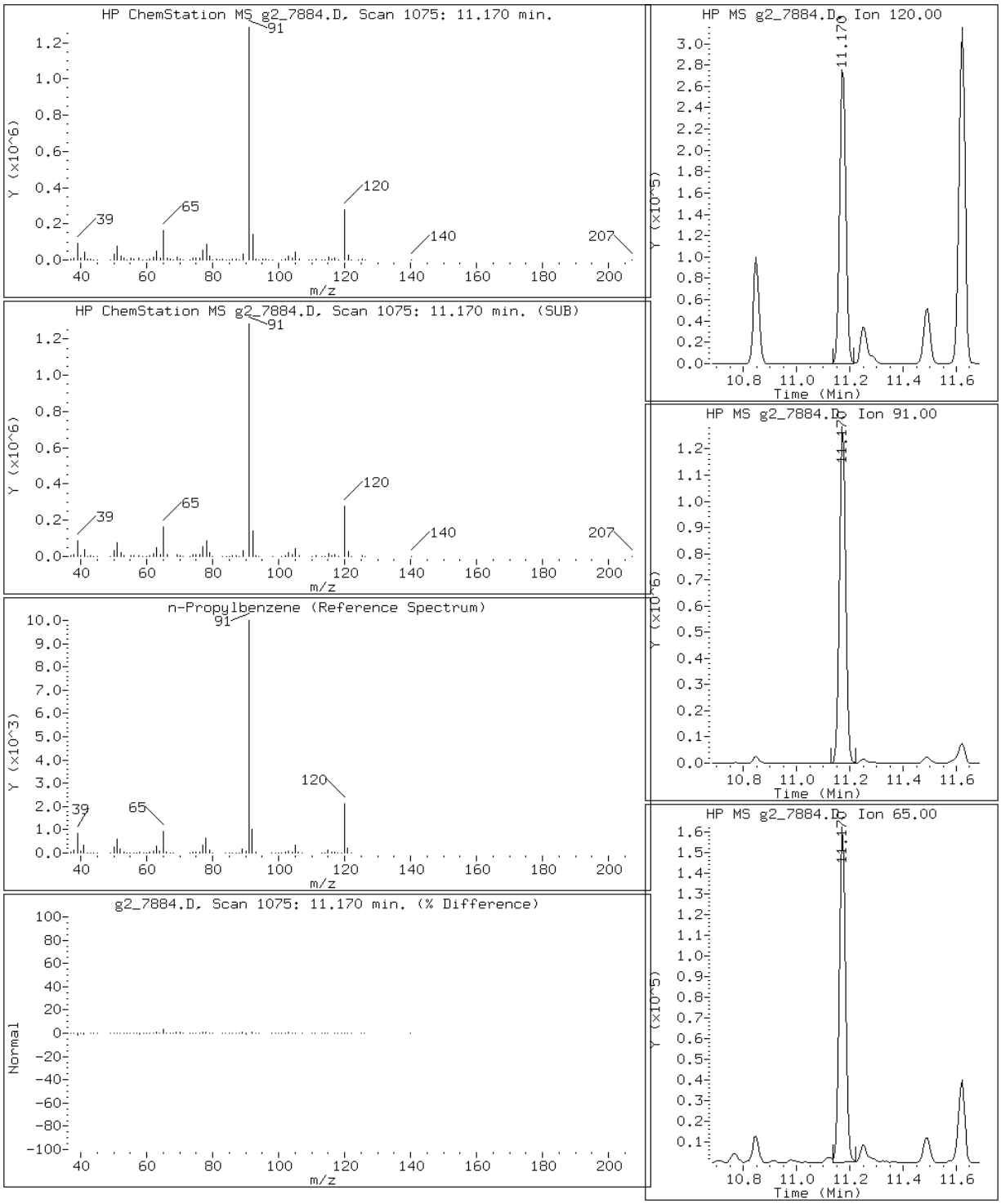
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

100 n-Propylbenzene



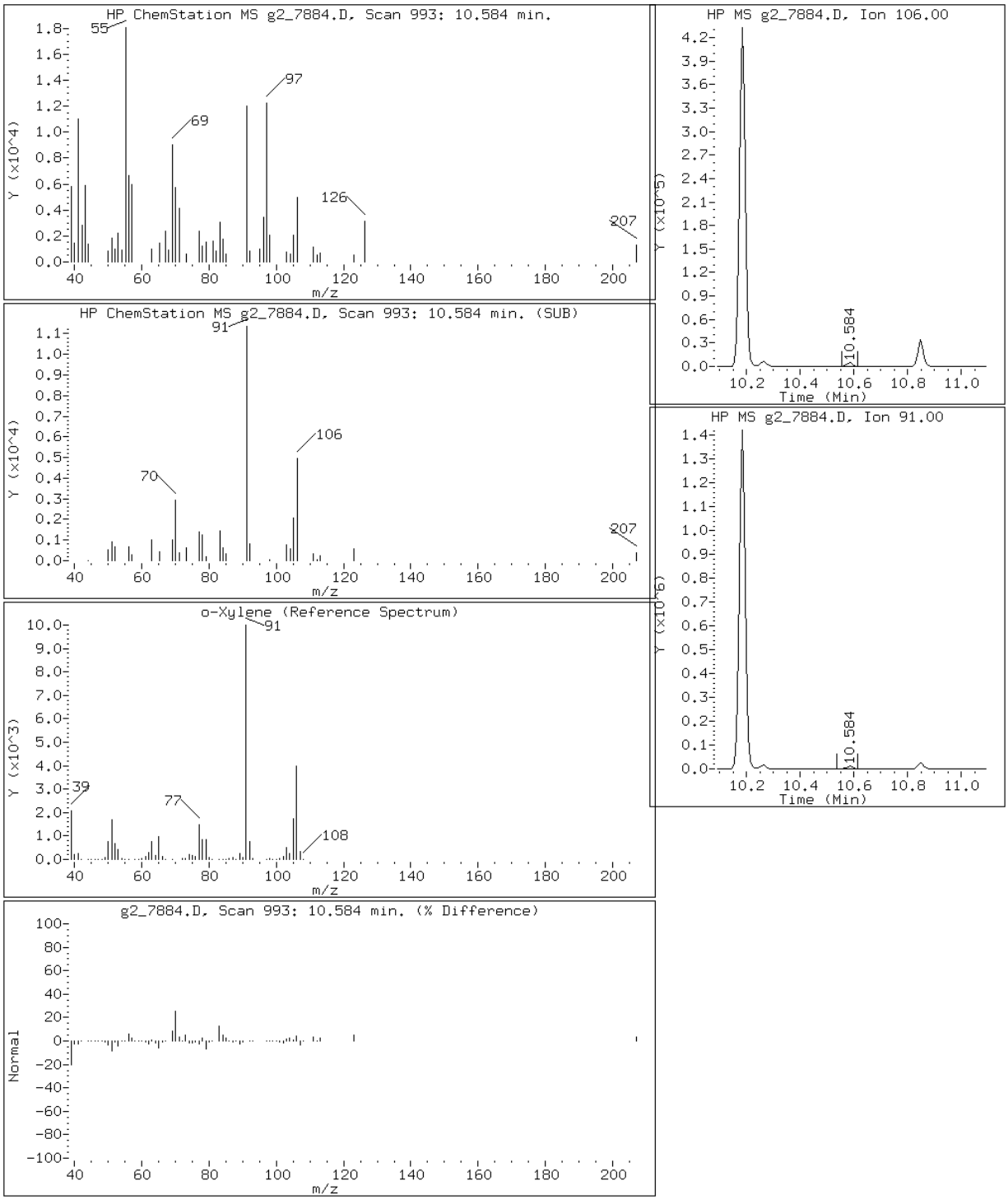
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

91 o-Xylene



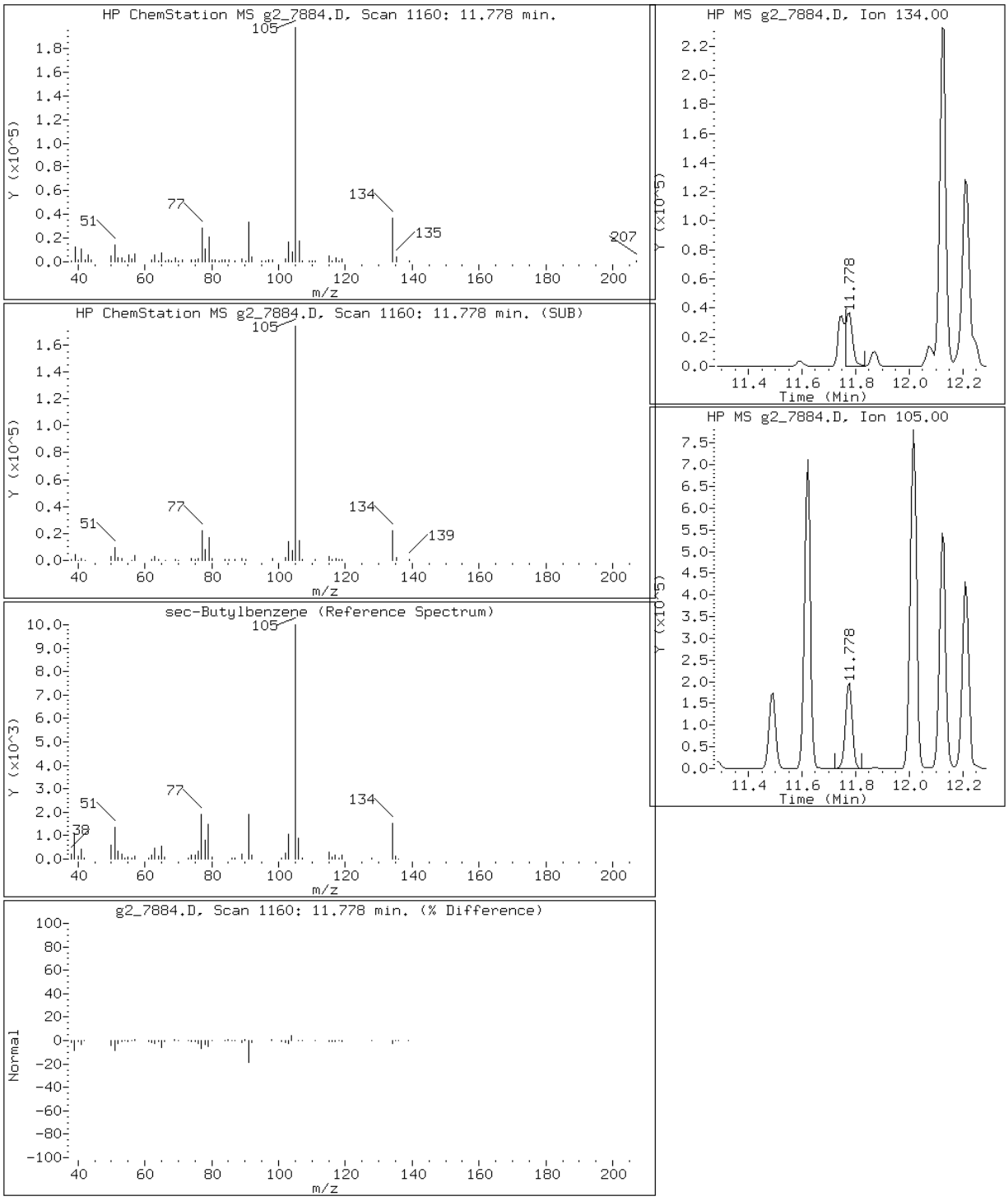
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

107 sec-Butylbenzene



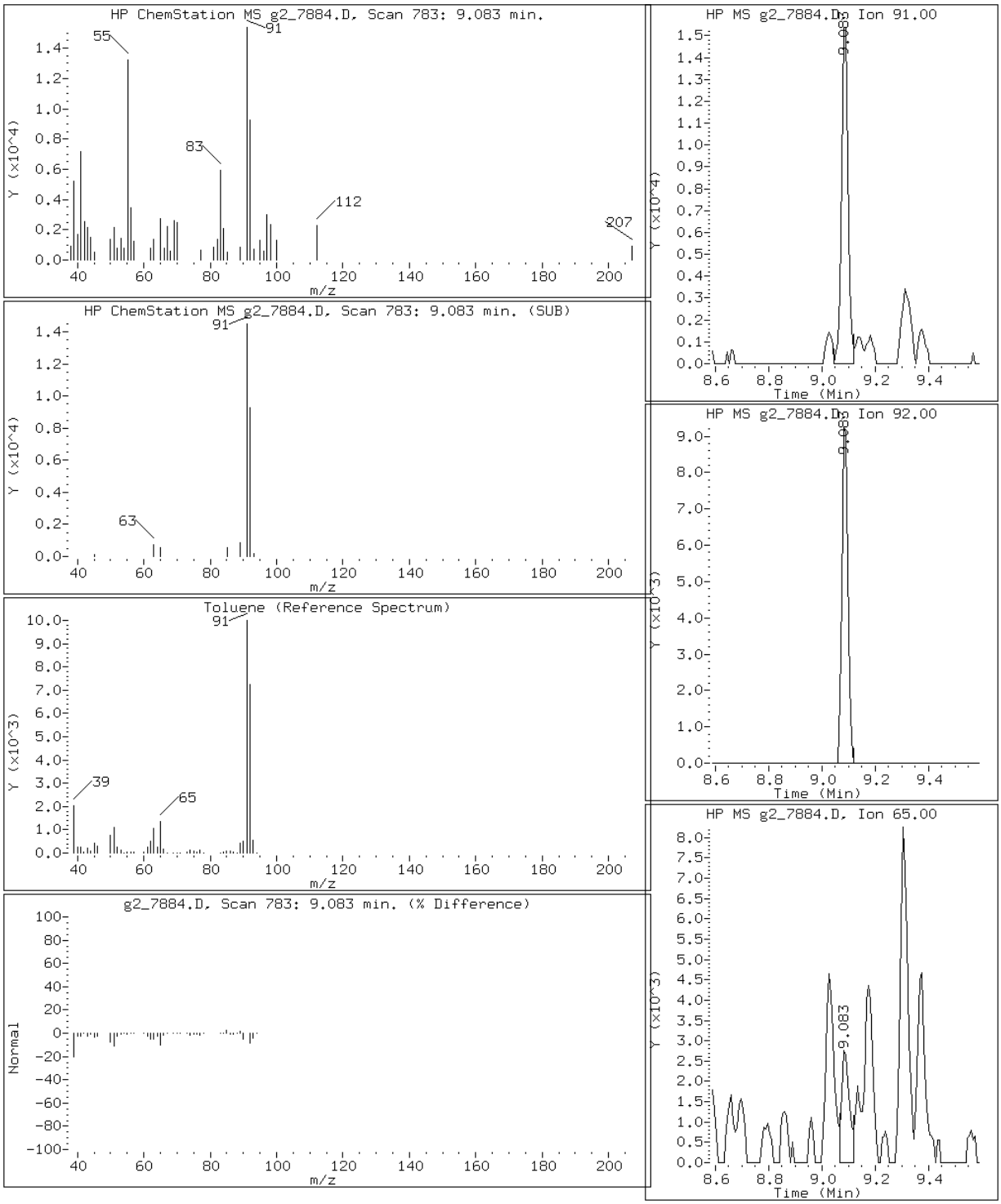
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

74 Toluene



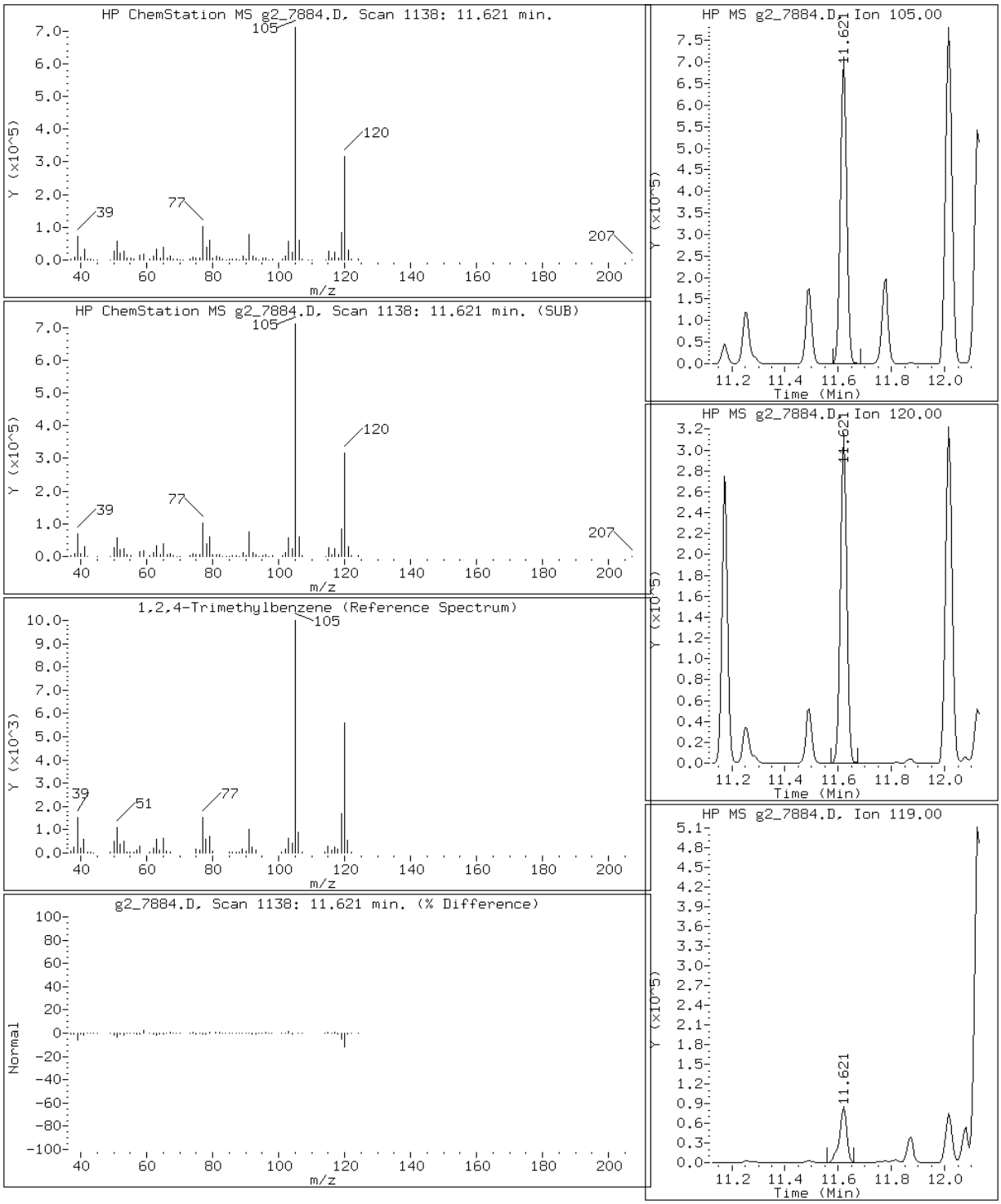
Data File: g2_7884.D

Date: 01-DEC-2010 23:15

Client ID: MW-22 Instrument: GCMS2.i

Sample Info: 280-10064-a-6,,pH<2 Operator: ILCZYSZD

106 1,2,4-Trimethylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-16 | Lab Sample ID: 280-10064-7

Matrix: Water | Lab File ID: g2_7885.D

Analysis Method: 8260B | Date Collected: 11/18/2010 13:00

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 23:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-16 | Lab Sample ID: 280-10064-7

Matrix: Water | Lab File ID: g2_7885.D

Analysis Method: 8260B | Date Collected: 11/18/2010 13:00

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 23:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-16 Lab Sample ID: 280-10064-7

Matrix: Water Lab File ID: g2_7885.D

Analysis Method: 8260B Date Collected: 11/18/2010 13:00

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 23:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43492 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	85		78-120
1868-53-7	Dibromofluoromethane (Surr)	86		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-127
2037-26-5	Toluene-d8 (Surr)	95		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7885.D
Lab Smp Id: 280-10064-A-7 Client Smp ID: MW-16
Inj Date : 01-DEC-2010 23:35
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : 280-10064-a-7,,pH<2
Misc Info : 280-10064-A-7
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC277

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	823275	10.0000		
*	85 Chlorobenzene-d5	119	10.119	10.126	(1.000)	160728	10.0000		
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	226156	10.0000		(Q)
$	49 Dibromofluoromethane (Surr)	111	7.294	7.295	(0.928)	158474	8.60859	8.60859	
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	170071	9.76689	9.76689	
$	73 Toluene-d8	98	9.032	9.039	(0.893)	743913	9.54634	9.54634	
$	96 4-Bromofluorobenzene (Surr)	95	10.998	11.006	(1.087)	259876	8.51190	8.51190	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
M	3 1,3-Dichloropropene (total)	100	Compound Not Detected.						
M	4 Trihalomethanes (total)	100	Compound Not Detected.						
	5 dichlorodifluoromethane	85	Compound Not Detected.						
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	7 Chloromethane	50	Compound Not Detected.						
	8 Vinyl Chloride	62	Compound Not Detected.						
	9 Ethylene Oxide	43	Compound Not Detected.						
	10 Bromomethane	94	Compound Not Detected.						
	11 Chloroethane	64	Compound Not Detected.						
	12 Dichlorofluoromethane	67	Compound Not Detected.						
	13 Trichlorofluoromethane	101	Compound Not Detected.						
	14 Ethanol	45	Compound Not Detected.						
	17 Ethyl Ether	59	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	Compound Not Detected.					
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
56 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
57 TAME	73	Compound Not Detected.					
60 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
87	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
91	o-Xylene	106	Compound Not Detected.					
90	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	Compound Not Detected.					
100	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
112	1,4-dichlorobenzene	146	Compound Not Detected.					
111	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117	Hexachlorobutadiene	225	Compound Not Detected.					
118	Naphthalene	128	Compound Not Detected.					
119	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

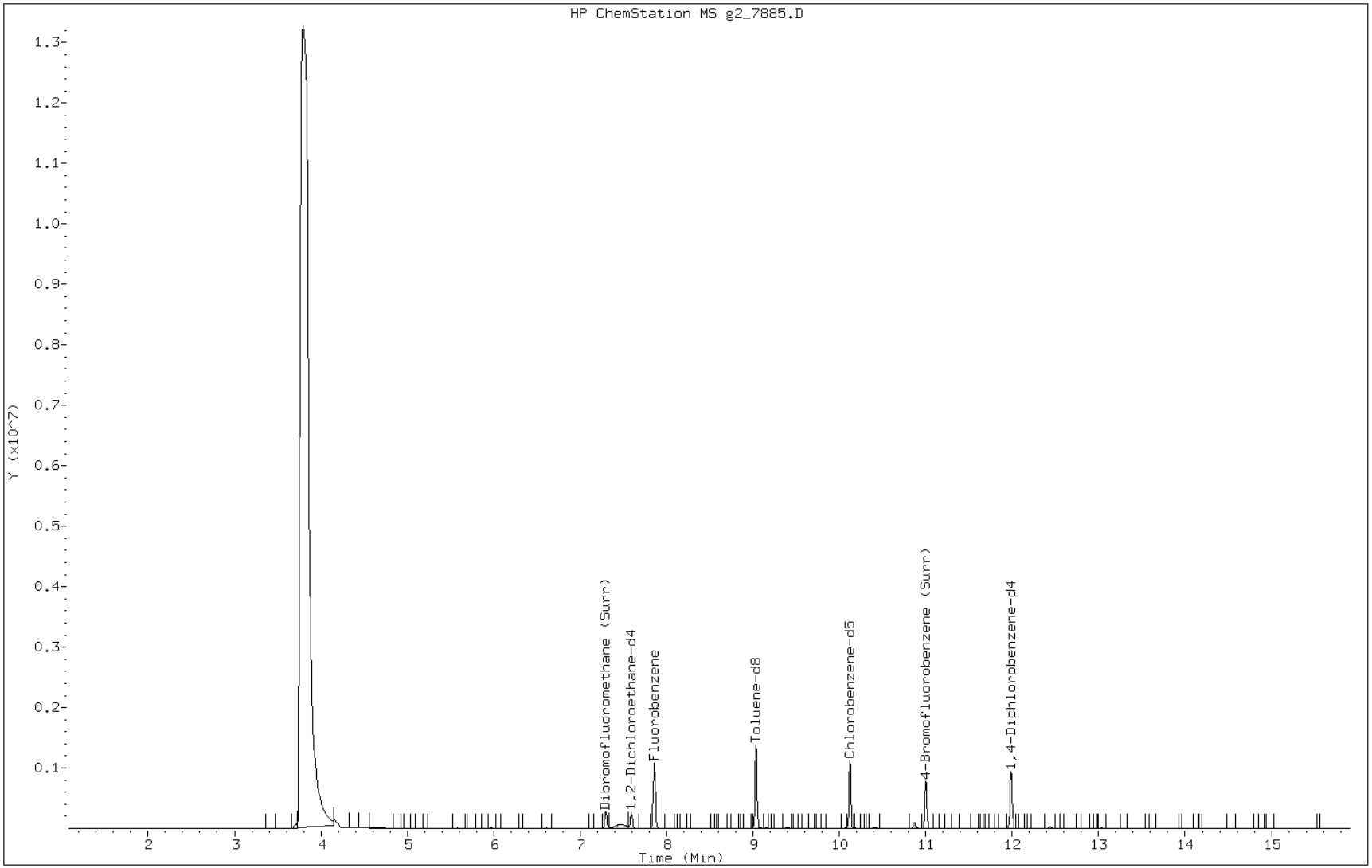
Q - Qualifier signal failed the ratio test.

Data File: g2_7885.D

Date: 01-DEC-2010 23:35

Client ID: MW-16 Instrument: GCMS2.i

Sample Info: 280-10064-a-7,,pH<2 Operator: ILCZYSZD



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-19 | Lab Sample ID: 280-10064-8

Matrix: Water | Lab File ID: g2_7886.D

Analysis Method: 8260B | Date Collected: 11/18/2010 14:45

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 23:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-19 | Lab Sample ID: 280-10064-8

Matrix: Water | Lab File ID: g2_7886.D

Analysis Method: 8260B | Date Collected: 11/18/2010 14:45

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 23:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.44	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-19 Lab Sample ID: 280-10064-8

Matrix: Water Lab File ID: g2_7886.D

Analysis Method: 8260B Date Collected: 11/18/2010 14:45

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 23:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43492 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		78-120
1868-53-7	Dibromofluoromethane (Surr)	85		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-127
2037-26-5	Toluene-d8 (Surr)	98		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7886.D
Lab Smp Id: 280-10064-C-8 Client Smp ID: MW-19
Inj Date : 01-DEC-2010 23:54
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : 280-10064-c-8,,pH<2
Misc Info : 280-10064-C-8
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC277

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	836580	10.0000		
*	85 Chlorobenzene-d5	119	10.119	10.126	(1.000)	158278	10.0000		
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	230117	10.0000		(Q)
$	49 Dibromofluoromethane (Surr)	111	7.294	7.295	(0.928)	159874	8.54652	8.54652	
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	171267	9.67915	9.67915	
$	73 Toluene-d8	98	9.032	9.039	(0.893)	751080	9.78751	9.78750	
$	96 4-Bromofluorobenzene (Surr)	95	10.998	11.006	(1.087)	259266	8.62337	8.62337	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
M	3 1,3-Dichloropropene (total)	100	Compound Not Detected.						
M	4 Trihalomethanes (total)	100	Compound Not Detected.						
	5 dichlorodifluoromethane	85	Compound Not Detected.						
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	7 Chloromethane	50	Compound Not Detected.						
	8 Vinyl Chloride	62	Compound Not Detected.						
	9 Ethylene Oxide	43	Compound Not Detected.						
	10 Bromomethane	94	Compound Not Detected.						
	11 Chloroethane	64	Compound Not Detected.						
	12 Dichlorofluoromethane	67	Compound Not Detected.						
	13 Trichlorofluoromethane	101	Compound Not Detected.						
	14 Ethanol	45	Compound Not Detected.						
	17 Ethyl Ether	59	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	5.959	5.973	(0.758)	8828	0.44359	0.443590(a)
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
56 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
57 TAME	73	Compound Not Detected.					
60 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
87	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
91	o-Xylene	106	Compound Not Detected.					
90	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	Compound Not Detected.					
100	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
112	1,4-dichlorobenzene	146	Compound Not Detected.					
111	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117	Hexachlorobutadiene	225	Compound Not Detected.					
118	Naphthalene	128	Compound Not Detected.					
119	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

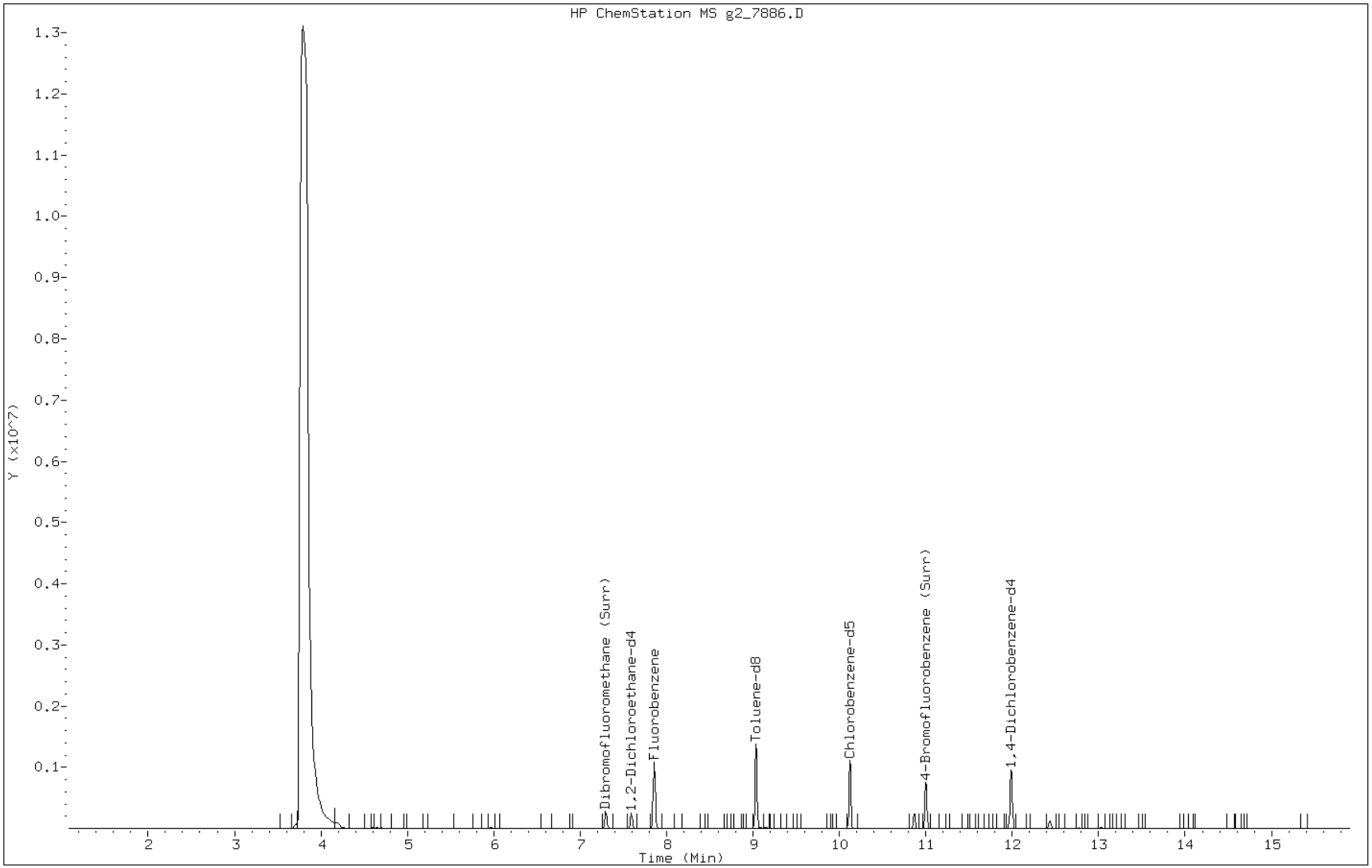
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7886.D

Date: 01-DEC-2010 23:54

Client ID: MW-19 Instrument: GCMS2.i

Sample Info: 280-10064-c-8,,pH<2 Operator: ILCZYSZD



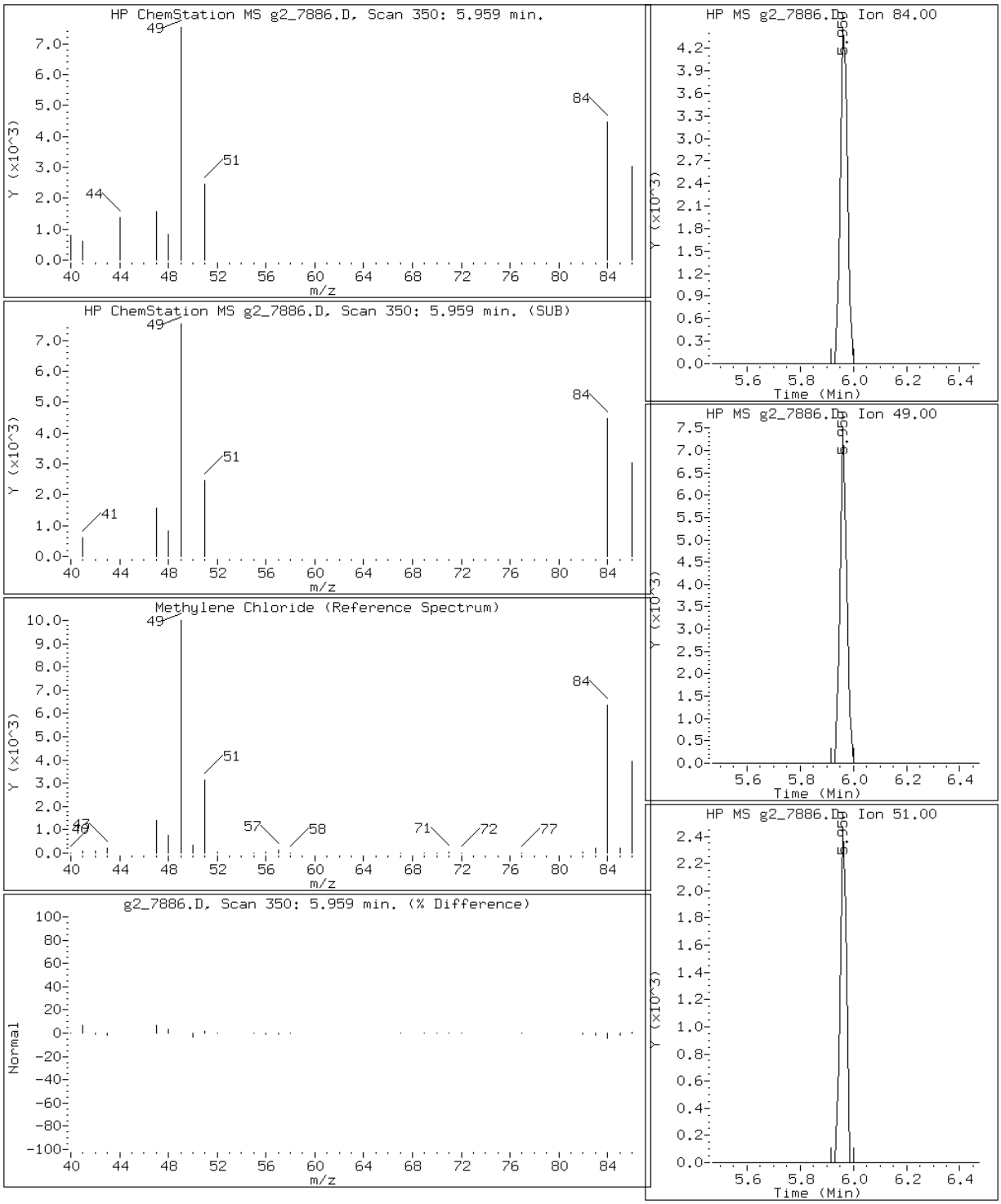
Data File: g2_7886.D

Date: 01-DEC-2010 23:54

Client ID: MW-19 Instrument: GCMS2.i

Sample Info: 280-10064-c-8,,pH<2 Operator: ILCZYSZD

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-10 | Lab Sample ID: 280-10064-9

Matrix: Water | Lab File ID: g2_7887.D

Analysis Method: 8260B | Date Collected: 11/18/2010 15:30

Sample wt/vol: 20(mL) | Date Analyzed: 12/02/2010 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-10 | Lab Sample ID: 280-10064-9

Matrix: Water | Lab File ID: g2_7887.D

Analysis Method: 8260B | Date Collected: 11/18/2010 15:30

Sample wt/vol: 20(mL) | Date Analyzed: 12/02/2010 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.47	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-10 Lab Sample ID: 280-10064-9

Matrix: Water Lab File ID: g2_7887.D

Analysis Method: 8260B Date Collected: 11/18/2010 15:30

Sample wt/vol: 20(mL) Date Analyzed: 12/02/2010 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43492 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		78-120
1868-53-7	Dibromofluoromethane (Surr)	90		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-127
2037-26-5	Toluene-d8 (Surr)	93		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7887.D
Lab Smp Id: 280-10064-C-9 Client Smp ID: MW-10
Inj Date : 02-DEC-2010 00:13
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : 280-10064-c-9,,pH<2
Misc Info : 280-10064-C-9
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC277

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	692848	10.0000		
*	85 Chlorobenzene-d5	119	10.119	10.126	(1.000)	140961	10.0000		
*	110 1,4-Dichlorobenzene-d4	152	11.985	11.992	(1.000)	213469	10.0000		(Q)
$	49 Dibromofluoromethane (Surr)	111	7.294	7.295	(0.928)	138735	8.95503	8.95503	
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	141305	9.64252	9.64252	
$	73 Toluene-d8	98	9.032	9.039	(0.893)	632599	9.25627	9.25627	
$	96 4-Bromofluorobenzene (Surr)	95	10.998	11.006	(1.087)	238065	8.89096	8.89096	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
M	3 1,3-Dichloropropene (total)	100	Compound Not Detected.						
M	4 Trihalomethanes (total)	100	Compound Not Detected.						
	5 dichlorodifluoromethane	85	Compound Not Detected.						
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	7 Chloromethane	50	Compound Not Detected.						
	8 Vinyl Chloride	62	Compound Not Detected.						
	9 Ethylene Oxide	43	Compound Not Detected.						
	10 Bromomethane	94	Compound Not Detected.						
	11 Chloroethane	64	Compound Not Detected.						
	12 Dichlorofluoromethane	67	Compound Not Detected.						
	13 Trichlorofluoromethane	101	Compound Not Detected.						
	14 Ethanol	45	Compound Not Detected.						
	17 Ethyl Ether	59	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	5.959	5.973	(0.758)	7736	0.46936	0.469359(a)
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
56 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
57 TAME	73	Compound Not Detected.					
60 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
77 1,1,2-Trichloroethane	97	Compound Not Detected.					
78 2-Hexanone	43	Compound Not Detected.					
79 1,3-Dichloropropane	76	Compound Not Detected.					
80 Tetrachloroethene	164	Compound Not Detected.					
81 Dibromochloromethane	129	Compound Not Detected.					
82 Tetrahydrothiophene	60	Compound Not Detected.					
83 1,2-Dibromoethane	107	Compound Not Detected.					
84 1-Chlorohexane	91	Compound Not Detected.					
86 Chlorobenzene	112	Compound Not Detected.					
87 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88 Ethylbenzene	106	Compound Not Detected.					
89 m and p-Xylene	106	Compound Not Detected.					
91 o-Xylene	106	Compound Not Detected.					
90 Styrene	104	Compound Not Detected.					
92 Bromoform	173	Compound Not Detected.					
93 isopropyl benzene	105	Compound Not Detected.					
94 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95 Cyclohexanone	55	Compound Not Detected.					
97 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98 t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99 1,2,3-Trichloropropane	110	Compound Not Detected.					
101 Bromobenzene	156	Compound Not Detected.					
100 n-Propylbenzene	120	Compound Not Detected.					
103 2-Chlorotoluene	126	Compound Not Detected.					
102 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104 4-Chlorotoluene	126	Compound Not Detected.					
105 tert-Butylbenzene	119	Compound Not Detected.					
106 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107 sec-Butylbenzene	134	Compound Not Detected.					
108 4-Isopropyltoluene	119	Compound Not Detected.					
109 1,3-Dichlorobenzene	146	Compound Not Detected.					
112 1,4-dichlorobenzene	146	Compound Not Detected.					
111 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113 n-Butylbenzene	91	Compound Not Detected.					
114 1,2-Dichlorobenzene	146	Compound Not Detected.					
115 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117 Hexachlorobutadiene	225	Compound Not Detected.					
118 Naphthalene	128	Compound Not Detected.					
119 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

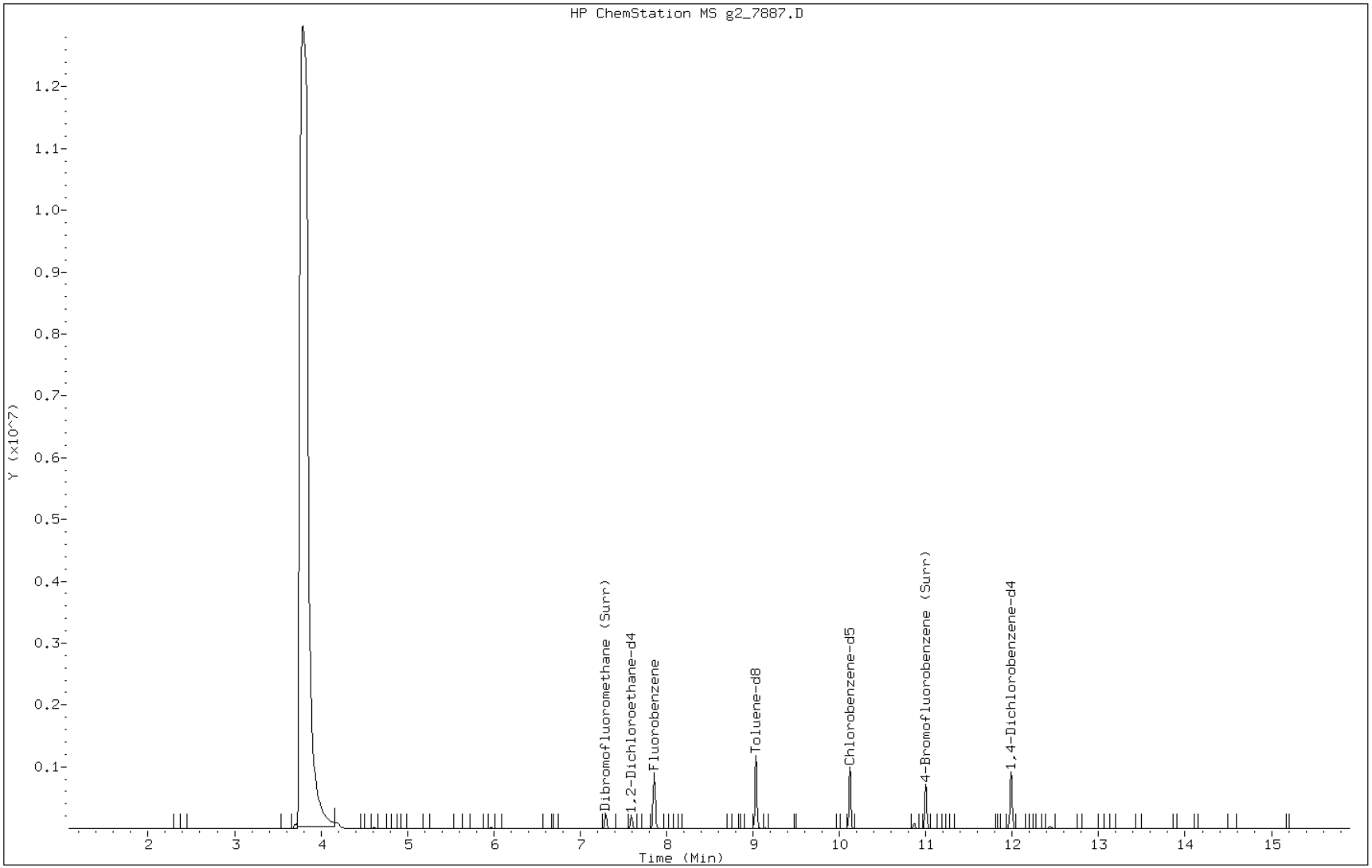
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7887.D

Date: 02-DEC-2010 00:13

Client ID: MW-10 Instrument: GCMS2.i

Sample Info: 280-10064-c-9,,pH<2 Operator: ILCZYSZD



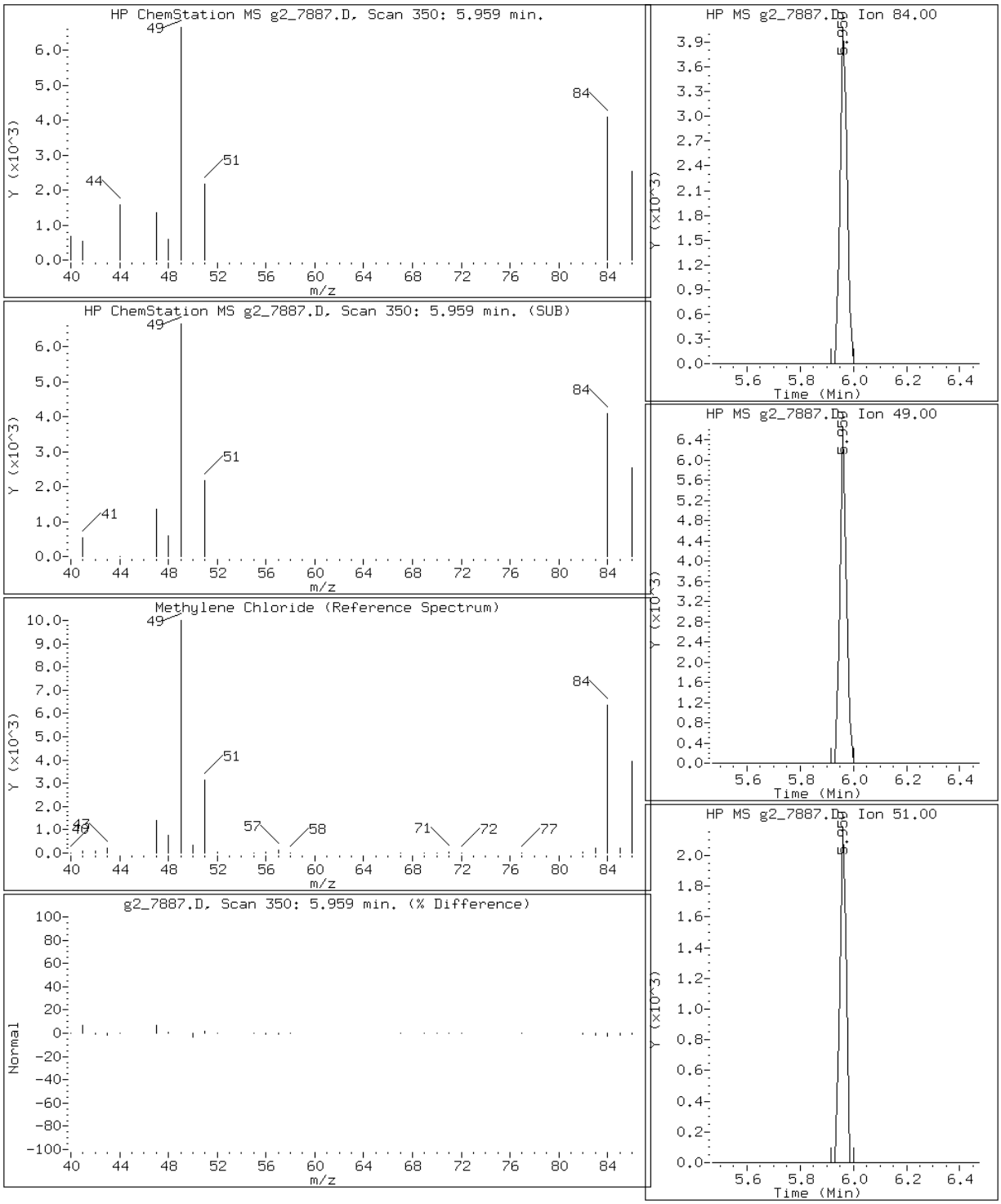
Data File: g2_7887.D

Date: 02-DEC-2010 00:13

Client ID: MW-10 Instrument: GCMS2.i

Sample Info: 280-10064-c-9,,pH<2 Operator: ILCZYSZD

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-DUP | Lab Sample ID: 280-10064-10

Matrix: Water | Lab File ID: g2_7888.D

Analysis Method: 8260B | Date Collected: 11/18/2010 00:00

Sample wt/vol: 20(mL) | Date Analyzed: 12/02/2010 00:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	16		1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	22		1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-DUP | Lab Sample ID: 280-10064-10

Matrix: Water | Lab File ID: g2_7888.D

Analysis Method: 8260B | Date Collected: 11/18/2010 00:00

Sample wt/vol: 20(mL) | Date Analyzed: 12/02/2010 00:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.9		1.0	0.19
99-87-6	4-Isopropyltoluene	0.66	J	1.0	0.20
75-09-2	Methylene Chloride	0.45	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	1.4		1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	14		1.0	0.16
95-47-6	o-Xylene	0.21	J	1.0	0.19
135-98-8	sec-Butylbenzene	3.3		1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.29	J	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	12		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	0.21	J	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-DUP Lab Sample ID: 280-10064-10

Matrix: Water Lab File ID: g2_7888.D

Analysis Method: 8260B Date Collected: 11/18/2010 00:00

Sample wt/vol: 20(mL) Date Analyzed: 12/02/2010 00:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43492 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		78-120
1868-53-7	Dibromofluoromethane (Surr)	88		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
2037-26-5	Toluene-d8 (Surr)	105		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7888.D
Lab Smp Id: 280-10064-C-10 Client Smp ID: MW-DUP
Inj Date : 02-DEC-2010 00:33
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : 280-10064-c-10,,pH<2
Misc Info : 280-10064-C-10
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC277

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	757604	10.0000		
*	85 Chlorobenzene-d5	119	10.119	10.126	(1.000)	140810	10.0000		
*	110 1,4-Dichlorobenzene-d4	152	11.985	11.992	(1.000)	212750	10.0000		(Q)
$	49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	148929	8.79135	8.79135	
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	170621	10.6478	10.6478	
$	73 Toluene-d8	98	9.032	9.039	(0.893)	719863	10.5444	10.5444	
$	96 4-Bromofluorobenzene (Surr)	95	10.998	11.006	(1.087)	257429	9.62445	9.62445	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106				7649	0.20515	0.205147(a)	
M	3 1,3-Dichloropropene (total)	100	Compound Not Detected.						
M	4 Trihalomethanes (total)	100	Compound Not Detected.						
	5 dichlorodifluoromethane	85	Compound Not Detected.						
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	7 Chloromethane	50	Compound Not Detected.						
	8 Vinyl Chloride	62	Compound Not Detected.						
	9 Ethylene Oxide	43	Compound Not Detected.						
	10 Bromomethane	94	Compound Not Detected.						
	11 Chloroethane	64	Compound Not Detected.						
	12 Dichlorofluoromethane	67	Compound Not Detected.						
	13 Trichlorofluoromethane	101	Compound Not Detected.						
	14 Ethanol	45	Compound Not Detected.						
	17 Ethyl Ether	59	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	5.959	5.973	(0.758)	8106	0.44977	0.449771(aQ)
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	6.387	6.387	(0.631)	25565	0.59821	0.598208(a)
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	7.473	7.481	(0.951)	300755	4.43463	4.43463
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
56 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	7.681	7.688	(0.977)	1475251	15.9233	15.9233
57 TAME	73	Compound Not Detected.					
60 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	8.339	8.346	(1.061)	449237	8.26784	8.26784
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	9.089	9.089	(1.156)	27105	0.29492	0.294923(a)
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77 1,1,2-Trichloroethane	97	Compound Not Detected.					
78 2-Hexanone	43	Compound Not Detected.					
79 1,3-Dichloropropane	76	Compound Not Detected.					
80 Tetrachloroethene	164	Compound Not Detected.					
81 Dibromochloromethane	129	Compound Not Detected.					
82 Tetrahydrothiophene	60	Compound Not Detected.					
83 1,2-Dibromoethane	107	Compound Not Detected.					
84 1-Chlorohexane	91	Compound Not Detected.					
86 Chlorobenzene	112	Compound Not Detected.					
87 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88 Ethylbenzene	106	10.183	10.190	(1.006)	700303	22.3434	22.3434
89 m and p-Xylene	106	Compound Not Detected.					
91 o-Xylene	106	10.584	10.591	(1.046)	7649	0.20515	0.205147(a)
90 Styrene	104	Compound Not Detected.					
92 Bromoform	173	Compound Not Detected.					
93 isopropyl benzene	105	10.848	10.855	(0.905)	609524	5.92932	5.92932
94 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95 Cyclohexanone	55	Compound Not Detected.					
97 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98 t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99 1,2,3-Trichloropropane	110	Compound Not Detected.					
101 Bromobenzene	156	Compound Not Detected.					
100 n-Propylbenzene	120	11.170	11.184	(0.932)	443098	14.4685	14.4685
103 2-Chlorotoluene	126	Compound Not Detected.					
102 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104 4-Chlorotoluene	126	Compound Not Detected.					
105 tert-Butylbenzene	119	Compound Not Detected.					
106 1,2,4-Trimethylbenzene	105	11.620	11.628	(0.970)	1080288	11.8718	11.8718(Q)
107 sec-Butylbenzene	134	11.778	11.785	(0.983)	77654	3.30147	3.30147(Q)
108 4-Isopropyltoluene	119	11.871	11.878	(0.990)	66105	0.66321	0.663206(a)
109 1,3-Dichlorobenzene	146	Compound Not Detected.					
112 1,4-dichlorobenzene	146	Compound Not Detected.					
111 1,2,3-Trimethylbenzene	105	12.014	12.021	(1.002)	1281433	15.0356	15.0356
113 n-Butylbenzene	91	Compound Not Detected.					
114 1,2-Dichlorobenzene	146	Compound Not Detected.					
115 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117 Hexachlorobutadiene	225	Compound Not Detected.					
118 Naphthalene	128	14.516	14.538	(1.211)	48500	1.40657	1.40657
119 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

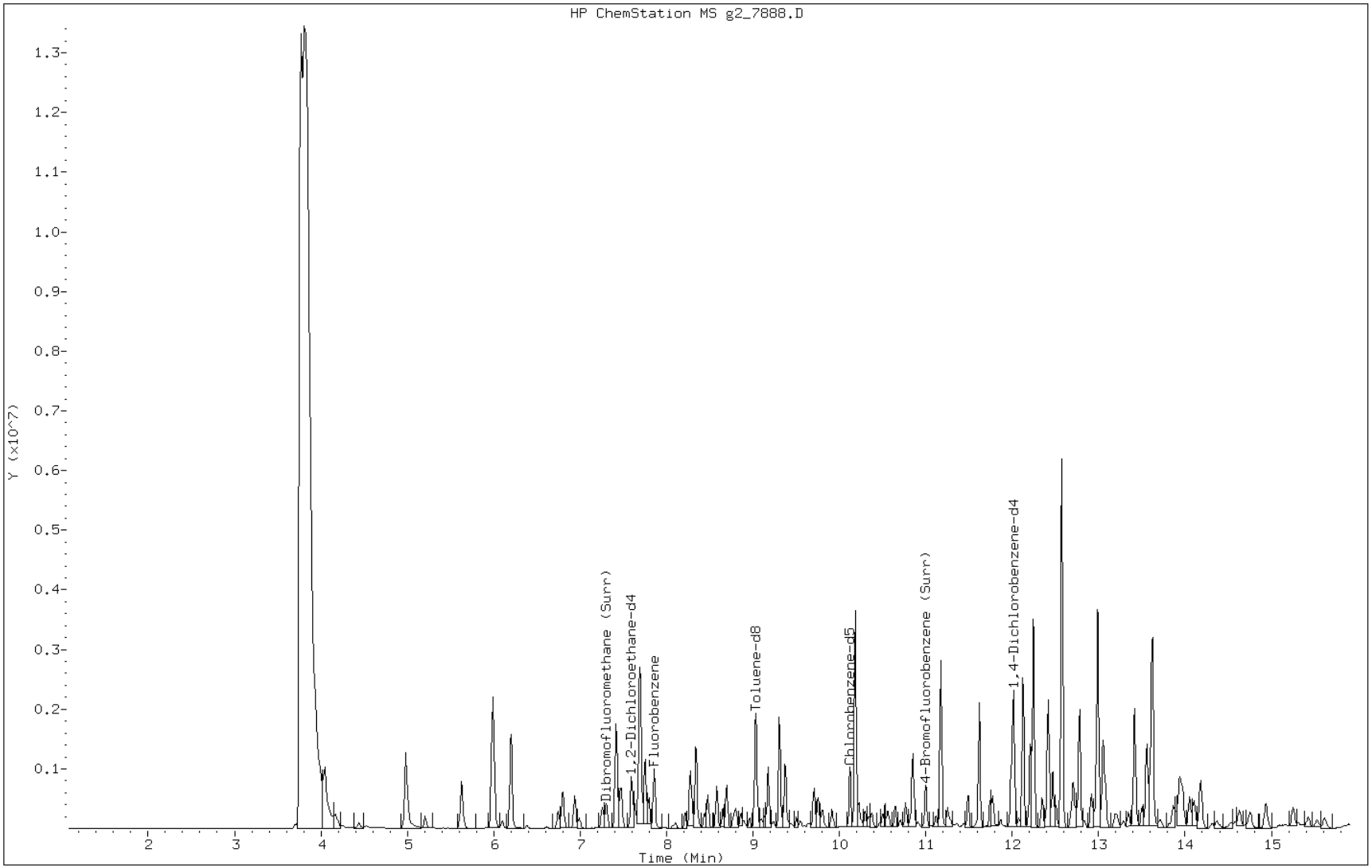
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD



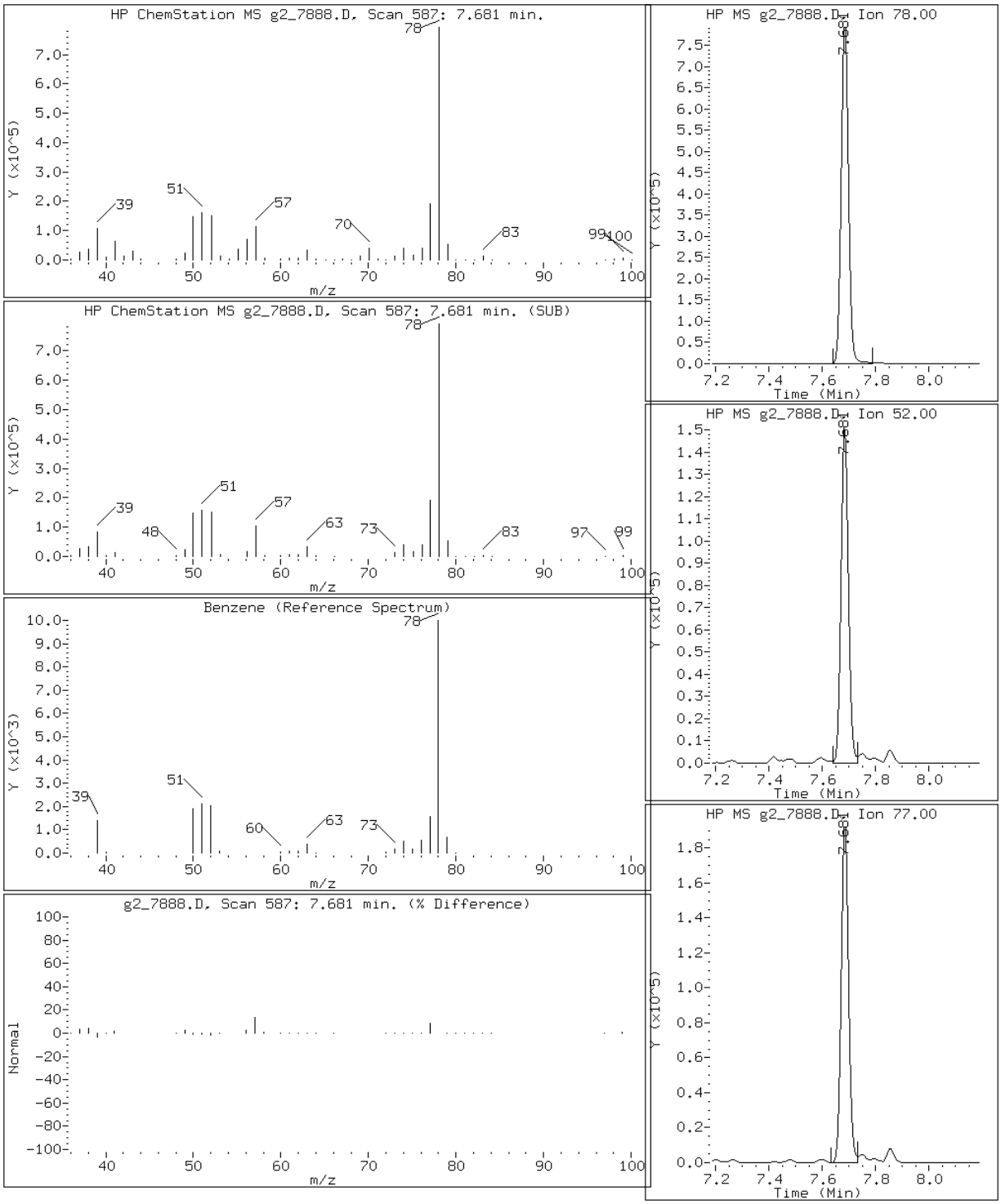
Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

58 Benzene



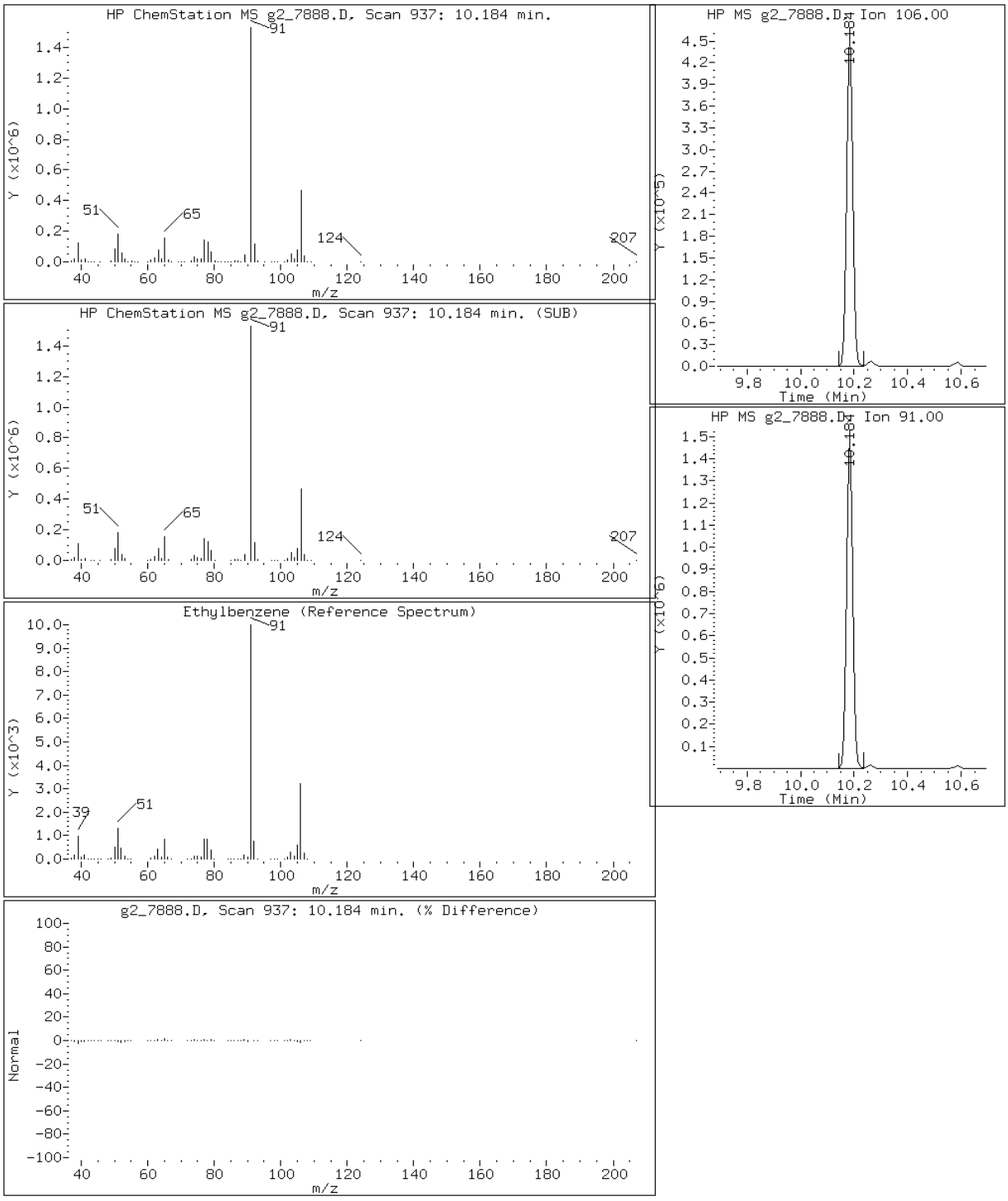
Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

88 Ethylbenzene



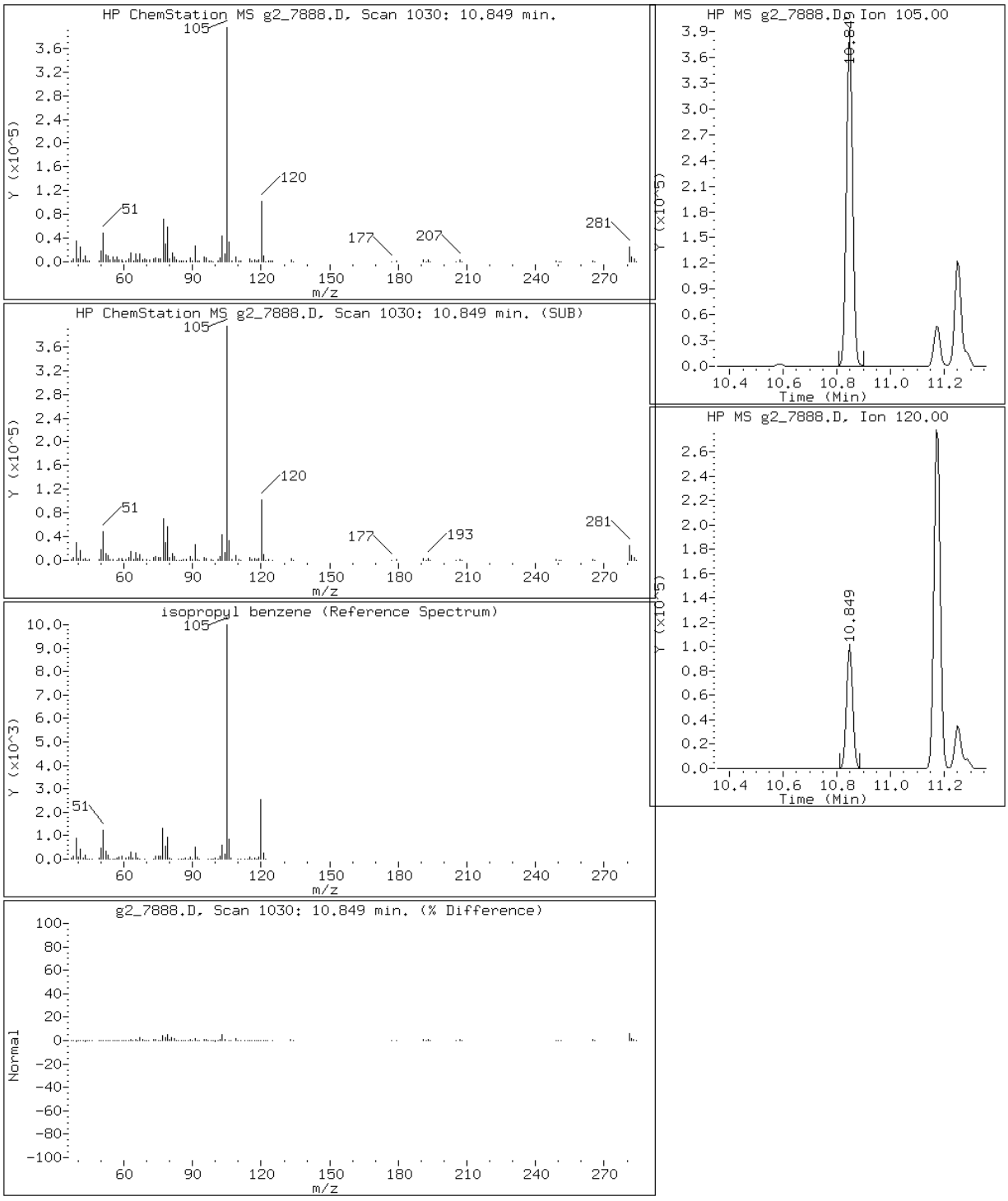
Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

93 isopropyl benzene



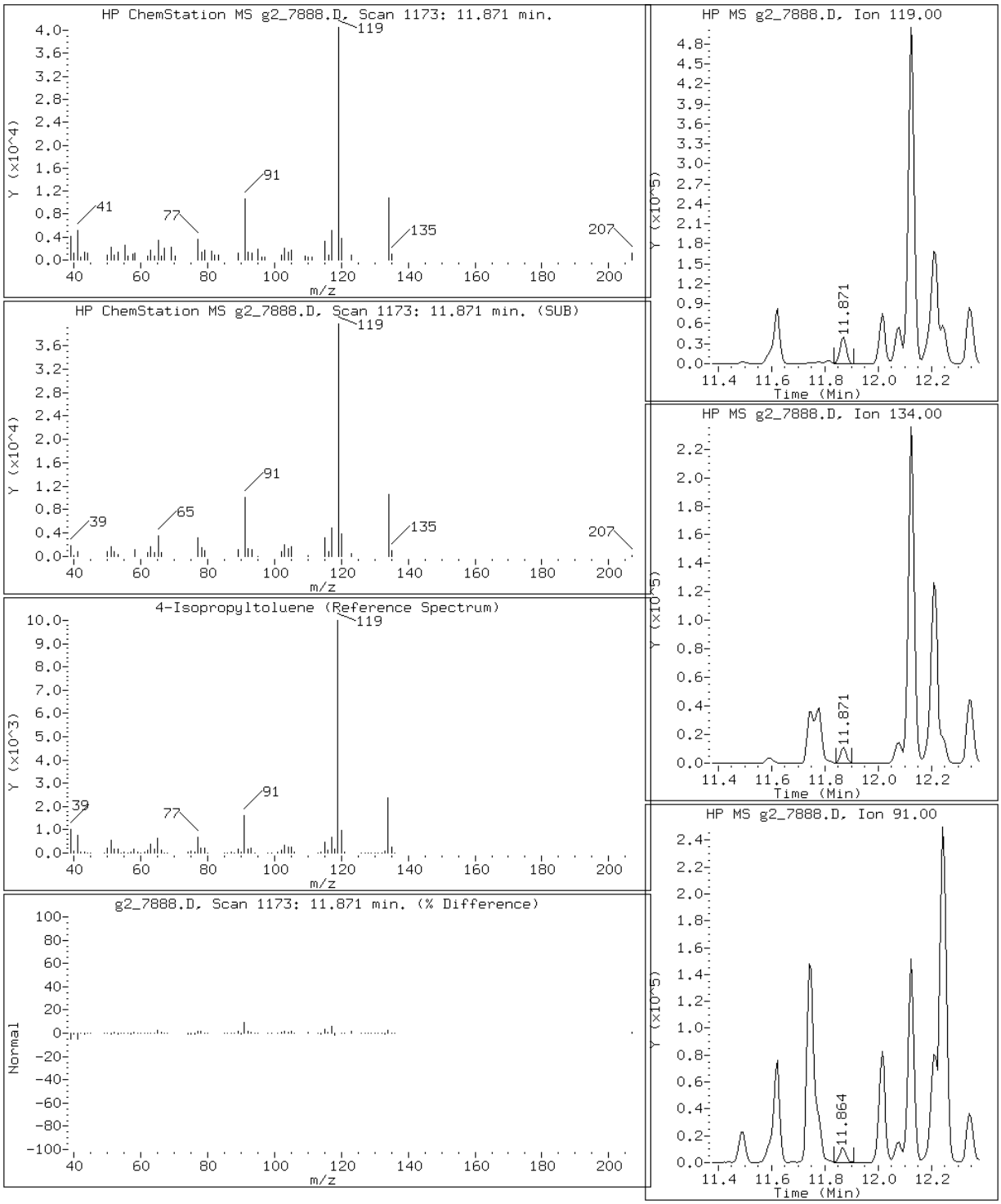
Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

108 4-Isopropyltoluene



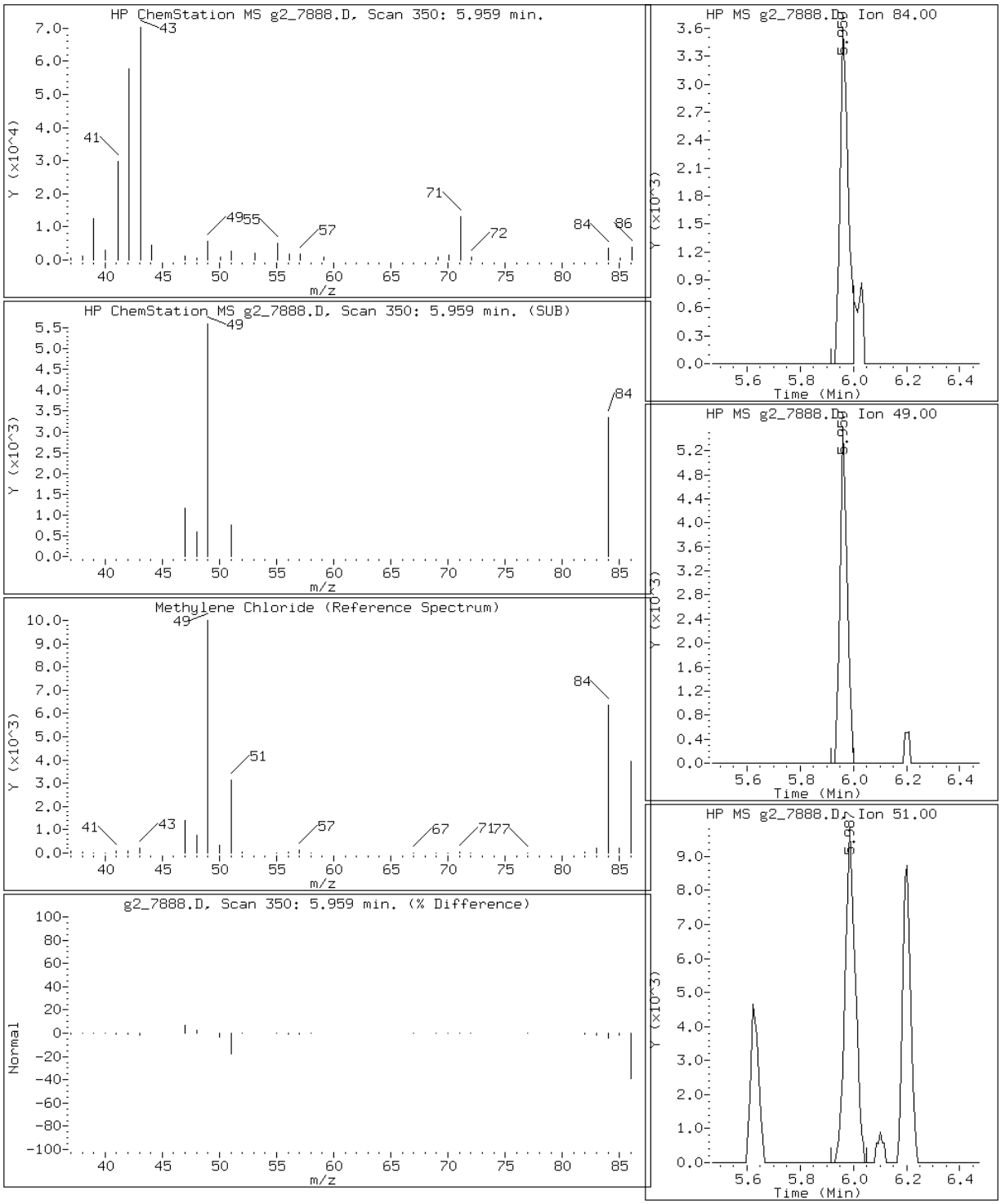
Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

30 Methylene Chloride



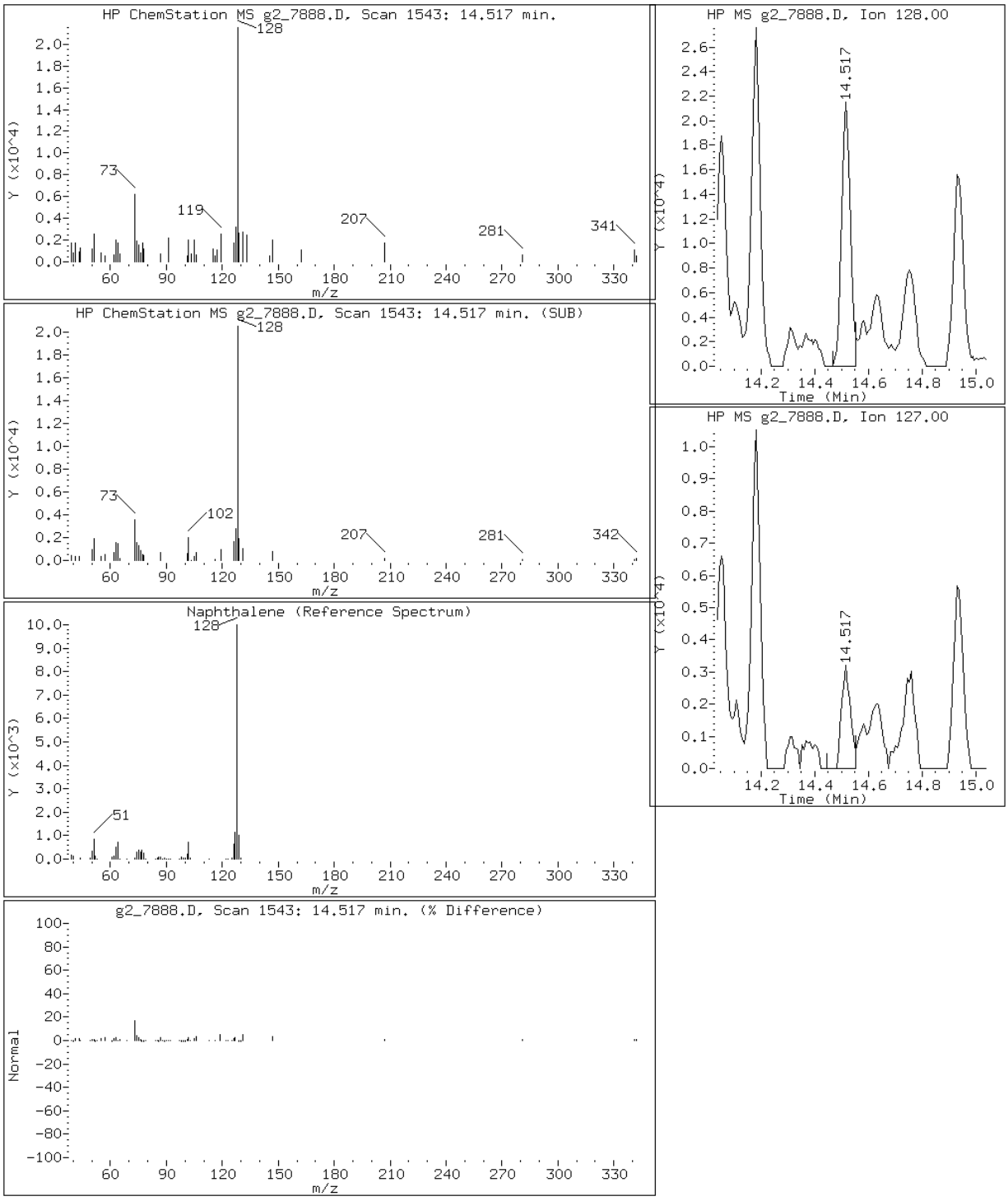
Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

118 Naphthalene



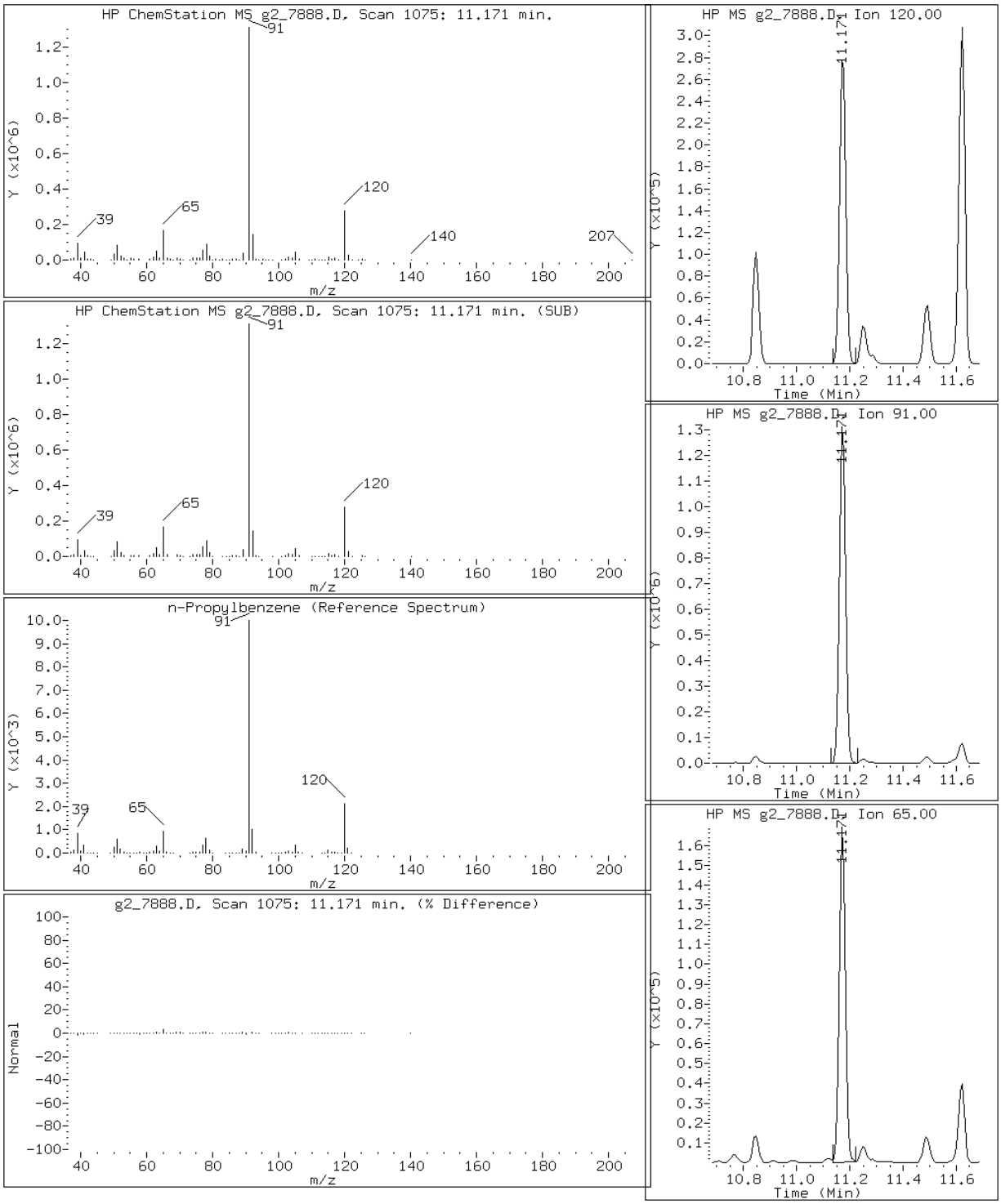
Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

100 n-Propylbenzene



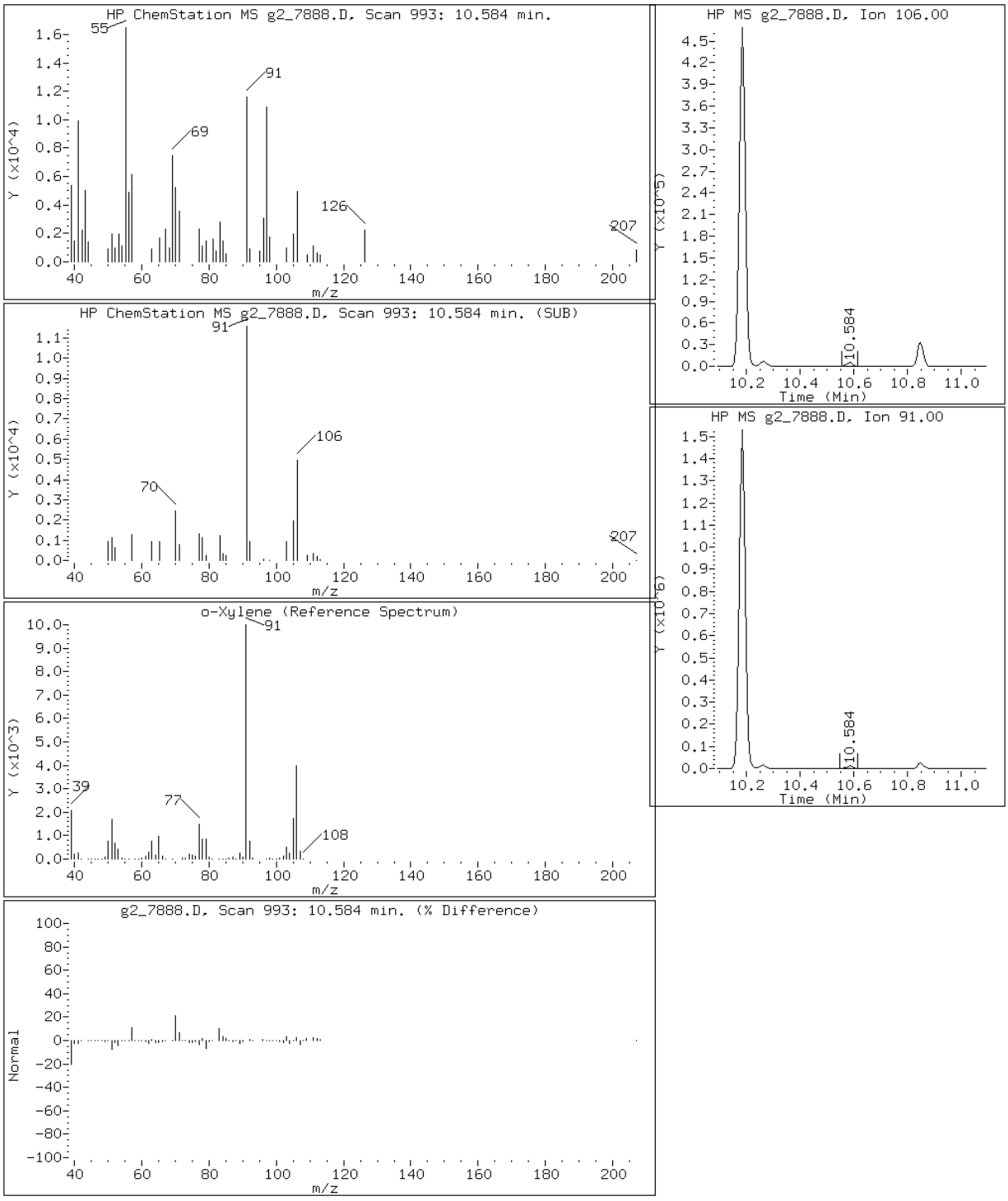
Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

91 o-Xylene



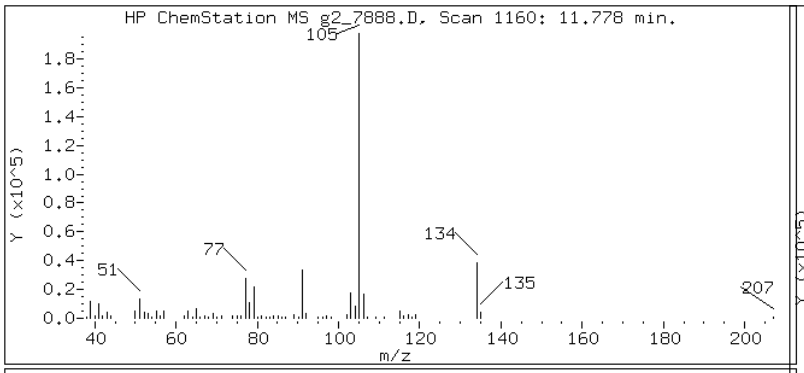
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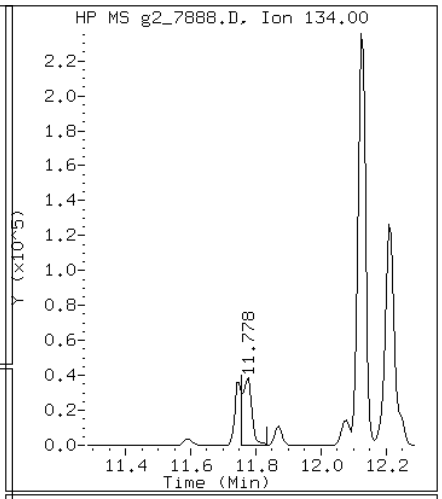
Date: 02-DEC-2010 00:33

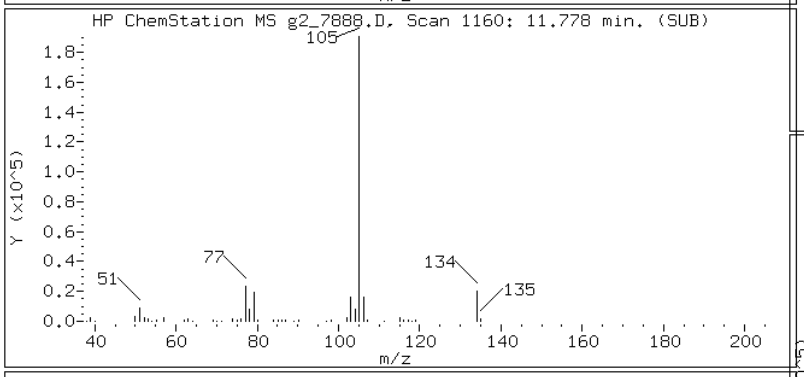
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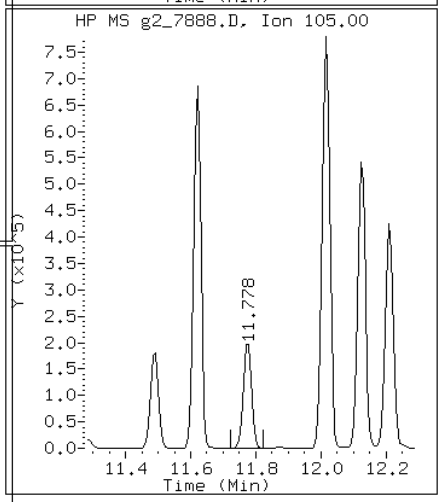
Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

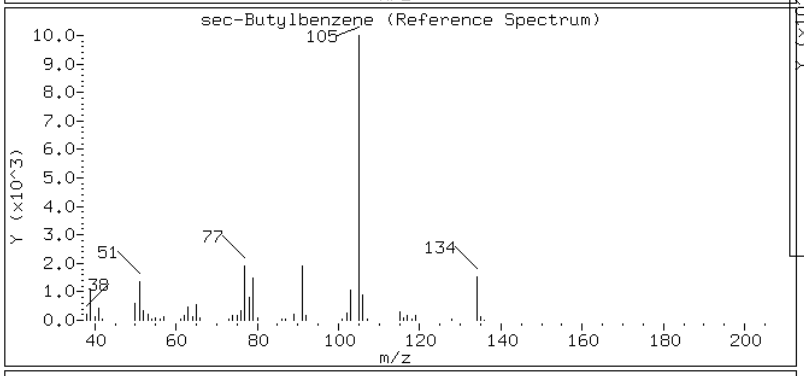
107 sec-Butylbenzene

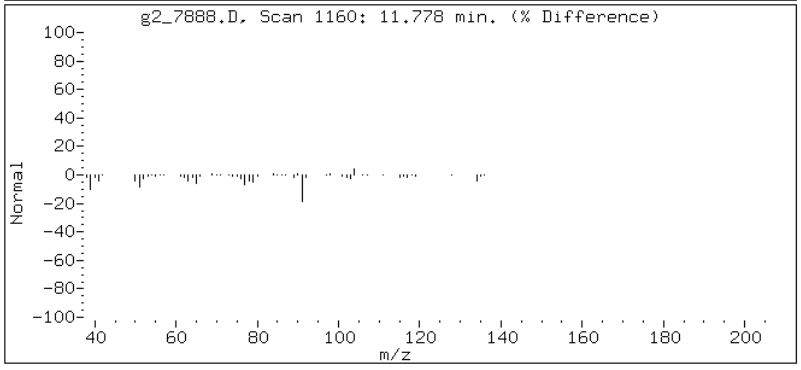












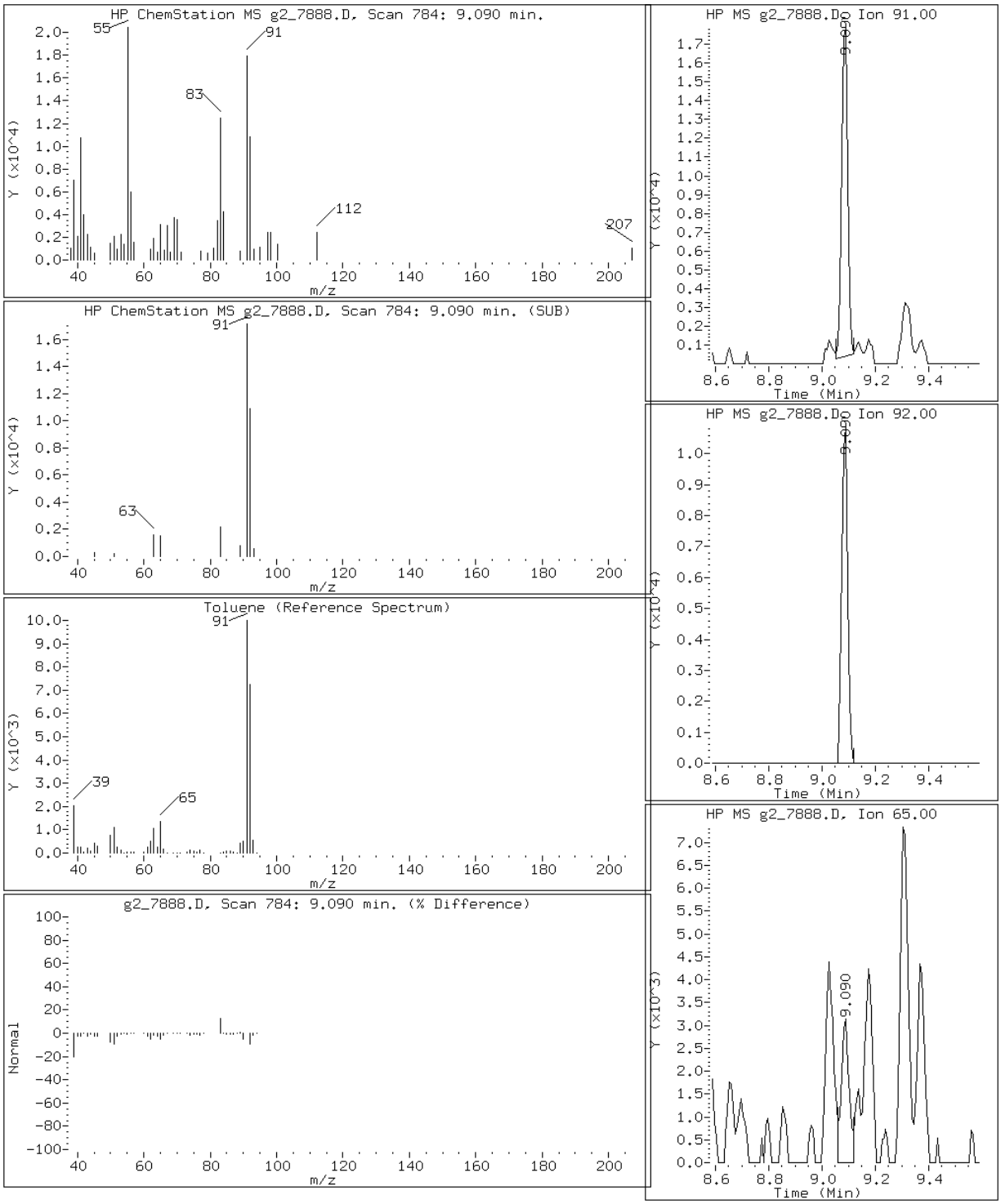
Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

74 Toluene



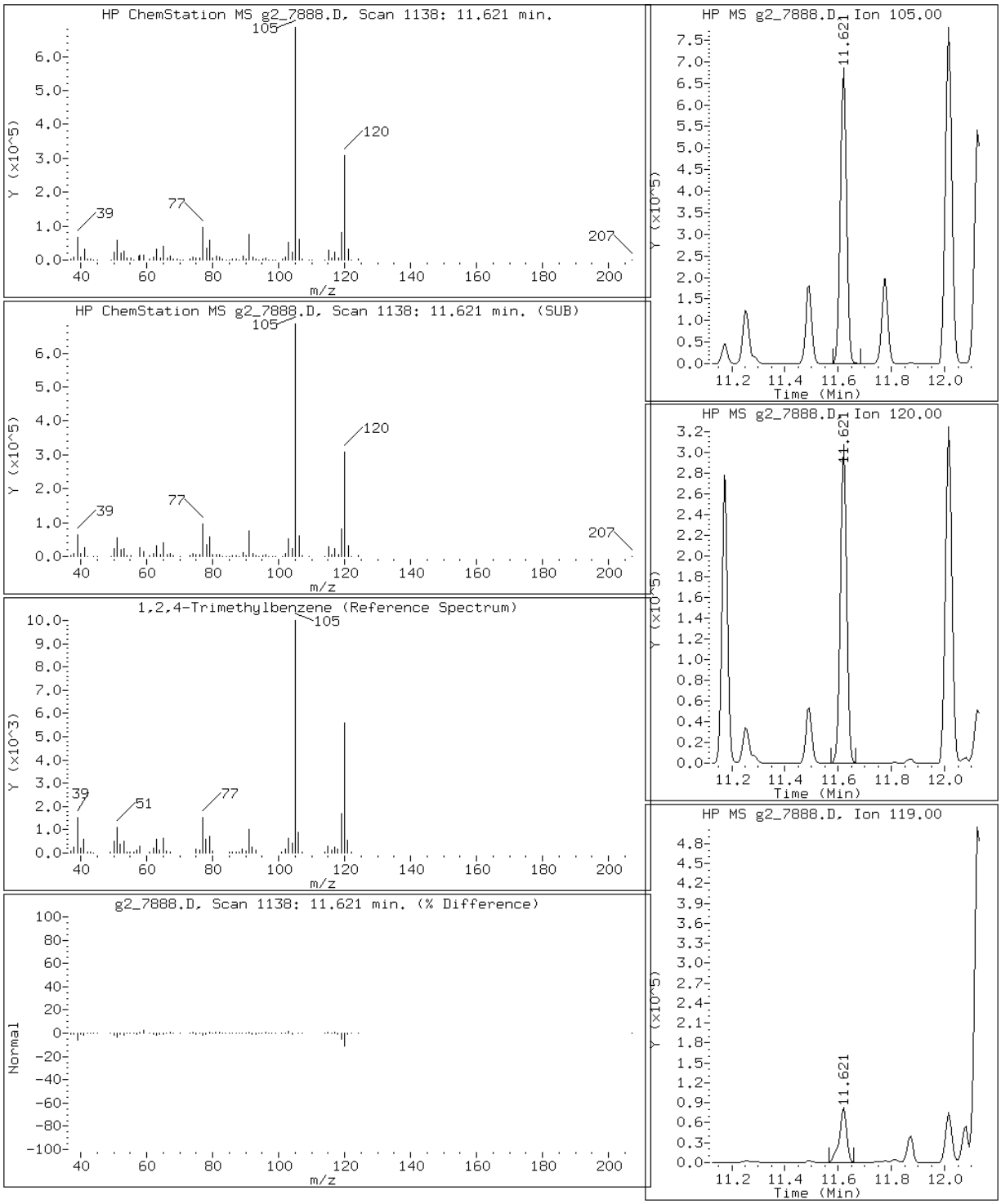
Data File: g2_7888.D

Date: 02-DEC-2010 00:33

Client ID: MW-DUP Instrument: GCMS2.i

Sample Info: 280-10064-c-10,,pH<2 Operator: ILCZYSZD

106 1,2,4-Trimethylbenzene



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 10:28 Calibration End Date: 11/28/2010 12:25 Calibration ID: 3821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-42958/2	g2_7794.D
Level 2	IC 280-42958/3	g2_7795.D
Level 3	IC 280-42958/4	g2_7796.D
Level 4	IC 280-42958/5	g2_7797.D
Level 5	IC 280-42958/6	g2_7798.D
Level 6	IC 280-42958/7	g2_7799.D
Level 7	IC 280-42958/8	g2_7800.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethene, Total	0.3702 0.2683	0.3159 0.2709	0.3056	0.2981	0.2785	Ave		0.3011				11.8		15.0			
Xylenes, Total	3.1166 2.6007	2.8185 2.5136	2.8127	2.6632	2.5857	Ave		2.7301				7.5		15.0			
Dichlorodifluoromethane	0.4645 0.3377	0.3299 +++++	0.3927	0.3813	0.3478	Ave		0.3757				13.3		15.0			
Chloromethane	+++++ 0.3645	0.4202 0.3551	0.4121	0.4069	0.3755	Ave		0.3891			0.1000	7.1		15.0			
Ethanol	+++++ 0.0013	+++++ 0.0012	0.0026	0.0017	0.0013	Lin1	-10.95	0.0012							0.9983		0.9900
Vinyl chloride	0.5467 0.3781	0.4330 0.3664	0.4370	0.4323	0.3939	Ave		0.4268				14.1		30.0			
Bromomethane	+++++ 0.2095	0.2472 0.2003	0.2341	0.2226	0.2077	Ave		0.2202				8.1		15.0			
Chloroethane	+++++ 0.2506	0.3033 0.2372	0.2901	0.2777	0.2577	Ave		0.2694				9.3		15.0			
Methylene Chloride	+++++ 0.2201	0.2621 0.2176	0.2452	0.2516	0.2307	Ave		0.2379				7.5		15.0			
Trichlorofluoromethane	0.5580 0.4339	0.4896 0.4309	0.4807	0.4809	0.4401	Ave		0.4734				9.4		15.0			
Acrolein	+++++ 0.0169	0.0194 0.0158	0.0182	0.0168	0.0168	Ave		0.0173				7.4		15.0			
Acetone	0.1155 0.0300	0.0507 0.0278	0.0431	0.0353	0.0325	Lin1	-0.375	0.0282							0.9982		0.9900
1,1-Dichloroethene	+++++ 0.2564	0.3005 0.2568	0.2864	0.2827	0.2662	Ave		0.2749				6.5		30.0			
Acetonitrile	+++++ 0.0123	0.0142 0.0117	0.0148	0.0142	0.0127	Ave		0.0133				9.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 10:28 Calibration End Date: 11/28/2010 12:25 Calibration ID: 3821

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Iodomethane	+++++ 0.2697	0.2923 0.2758	0.3034	0.3030	0.2773	Ave		0.2869				5.1		15.0			
Tert-butyl alcohol (2-methyl-2-propanol)	+++++ 0.0071	0.0104 0.0067	0.0105	0.0091	0.0083	Lin1	-1.703	0.0069							0.9941		0.9900
Acrylonitrile	+++++ 0.0379	+++++ 0.0362	0.0441	0.0417	0.0389	Ave		0.0398				7.9		15.0			
trans-1,2-Dichloroethene	+++++ 0.2660	0.3143 0.2687	0.3064	0.3005	0.2772	Ave		0.2888				7.2		15.0			
Isopropyl ether	0.2514 0.1913	0.2217 0.1769	0.2145	0.2069	0.1983	Ave		0.2087				11.5		15.0			
1,1-Dichloroethane	0.7260 0.5250	0.6164 0.5139	0.6175	0.5902	0.5510	Ave		0.5914			0.1000	12.2		15.0			
Chloroprene	+++++ 0.5689	0.6843 0.5554	0.6674	0.6390	0.5979	Ave		0.6188				8.6		15.0			
2-Butanone (MEK)	+++++ 0.0450	0.0551 0.0417	0.0511	0.0441	0.0447	Ave		0.0470				10.8		15.0			
Propionitrile	+++++ 0.0139	0.0187 0.0133	0.0168	0.0152	0.0141	Ave		0.0153				13.4		15.0			
cis-1,2-Dichloroethene	0.3605 0.2705	0.3175 0.2732	0.3047	0.2958	0.2797	Ave		0.3003				10.5		15.0			
2,2-Dichloropropane	+++++ 0.2858	0.3600 0.2837	0.3439	0.3420	0.3098	Ave		0.3209				10.1		15.0			
Methacrylonitrile	+++++ 0.0694	0.0824 0.0635	0.0784	0.0728	0.0721	Ave		0.0731				9.1		15.0			
Bromochloromethane	+++++ 0.0863	0.0955 0.0875	0.0916	0.0888	0.0852	Ave		0.0892				4.3		15.0			
Chloroform	0.6190 0.4400	0.5081 0.4312	0.5017	0.4751	0.4518	Ave		0.4896				13.1		30.0			
Isobutyl alcohol	+++++ 0.0033	+++++ 0.0032	0.0038	0.0037	0.0033	Ave		0.0035				6.9		15.0			
1,1,1-Trichloroethane	0.5293 0.3776	0.4440 0.3771	0.4323	0.4264	0.3903	Ave		0.4253				12.5		15.0			
1,1-Dichloropropene	0.5192 0.4246	0.4999 0.4193	0.4828	0.4565	0.4436	Ave		0.4637				8.2		15.0			
Carbon tetrachloride	0.4030 0.3195	0.3459 0.3247	0.3462	0.3350	0.3170	Ave		0.3416				8.6		15.0			
1,2-Dichloroethane	0.3017 0.2611	0.3091 0.2497	0.2903	0.2729	0.2653	Ave		0.2786				8.0		15.0			
Benzene	1.3974 1.1341	1.3177 1.0852	1.2625	1.1987	1.1647	Ave		1.2229				8.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 10:28 Calibration End Date: 11/28/2010 12:25 Calibration ID: 3821

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butanol	+++++ 0.0031	0.0082 0.0030	0.0060	0.0039	0.0035	Lin1	-5.526	0.0029							0.9994		0.9900
Trichloroethene	0.2934 0.2576	0.2660 0.2536	0.2723	0.2556	0.2553	Ave		0.2649				5.4		15.0			
1,2-Dichloropropane	0.3202 0.2718	0.3126 0.2589	0.2924	0.2770	0.2705	Ave		0.2862				8.0		30.0			
1,4-Dioxane	0.0009 0.0009	0.0010 0.0009	0.0009	0.0011	0.0009	Ave		0.0010				9.0		15.0			
Dibromomethane	+++++ 0.0908	0.1080 0.0892	0.0988	0.0942	0.0909	Ave		0.0953				7.4		15.0			
Bromodichloromethane	0.3505 0.2874	0.3132 0.2802	0.3040	0.2824	0.2809	Ave		0.2998				8.6		15.0			
cis-1,3-Dichloropropene	+++++ 0.3728	0.4103 0.3549	0.3781	0.3494	0.3583	Ave		0.3706				6.0		15.0			
4-Methyl-2-pentanone	+++++ 0.1045	0.1264 0.0949	0.1134	0.1029	0.1037	Ave		0.1076				10.1		15.0			
Toluene	1.3597 1.1444	1.3382 1.0673	1.2594	1.1623	1.1604	Ave		1.2131				8.9		30.0			
trans-1,3-Dichloropropene	+++++ 0.2731	0.3020 0.2589	0.2704	0.2362	0.2580	Ave		0.2665				8.2		15.0			
Bromoform	+++++ 0.3193	0.3026 0.3299	0.2930	0.2867	0.2892	Ave		0.3035			0.1000	5.8		15.0			
1,1,2-Trichloroethane	0.1334 0.1229	0.1430 0.1171	0.1276	0.1176	0.1158	Ave		0.1254				8.0		15.0			
2-Hexanone	+++++ 0.3722	0.4705 0.3346	0.4380	0.3675	0.3661	Ave		0.3915				13.1		15.0			
1,3-Dichloropropane	+++++ 1.3343	1.4990 1.2627	1.4385	1.2935	1.2839	Ave		1.3520				7.1		15.0			
Tetrachloroethene	1.0677 0.9729	1.0250 1.0007	0.9851	0.9502	0.9329	Ave		0.9906				4.6		15.0			
Dibromochloromethane	+++++ 0.7079	0.7006 0.7109	0.6941	0.6520	0.6663	Ave		0.6886				3.5		15.0			
1,2-Dibromoethane (EDB)	+++++ 0.5905	0.6844 0.5756	0.6352	0.5654	0.5719	Ave		0.6038				7.8		15.0			
1-Chlorohexane	+++++ 2.1137	2.4875 2.0404	2.3145	2.1420	2.0910	Ave		2.1982				7.7		15.0			
Chlorobenzene	3.9078 3.3053	3.7168 3.2638	3.6006	3.3264	3.2696	Ave		3.4843			0.3000	7.4		15.0			
1,1,1,2-Tetrachloroethane	1.1780 1.0150	1.0344 1.0475	1.0254	0.9977	0.9755	Ave		1.0391				6.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 10:28 Calibration End Date: 11/28/2010 12:25 Calibration ID: 3821

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethylbenzene	2.4523 2.1399	2.3272 2.1417	2.2775	2.1420	2.1006	Ave		2.2259				5.8		30.0			
m-Xylene & p-Xylene	3.1841 2.6399	2.8682 2.5292	2.8685	2.6898	2.6190	Ave		2.7712				8.0		15.0			
o-Xylene	2.9816 2.5223	2.7189 2.4825	2.7011	2.6101	2.5190	Ave		2.6479				6.5		15.0			
Styrene	+++++ 3.9130	4.2614 3.7529	4.2195	3.9729	3.8554	Ave		3.9959				5.1		15.0			
Isopropylbenzene	+++++ 4.5288	5.5497 4.2080	5.1766	4.7696	4.7585	Ave		4.8319				9.8		15.0			
Cyclohexanone	+++++ 0.0217	0.0237 0.0208	0.0243	0.0228	0.0218	Ave		0.0225				6.0		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.4955	0.6516 0.4803	0.5810	0.5222	0.5160	Ave		0.5411			0.3000	11.9		15.0			
1,2,3-Trichloropropane	+++++ 0.1248	0.1574 0.1182	0.1432	0.1284	0.1270	Ave		0.1332				10.8		15.0			
n-Propylbenzene	1.5575 1.3758	1.5764 1.3319	1.4873	1.3720	1.3754	Ave		1.4395				6.9		15.0			
Bromobenzene	0.8884 0.8375	0.9233 0.8152	0.8844	0.7968	0.8178	Ave		0.8519				5.5		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0684	+++++ 0.0696	0.0721	0.0717	0.0646	Ave		0.0693				4.4		15.0			
1,3,5-Trimethylbenzene	+++++ 4.0301	4.7749 3.7928	4.5877	4.2312	4.1864	Ave		4.2672				8.4		15.0			
2-Chlorotoluene	1.1402 1.0523	1.1937 1.0311	1.1242	1.0530	1.0478	Ave		1.0917				5.6		15.0			
4-Chlorotoluene	1.1875 1.0344	1.1905 1.0095	1.1448	1.0407	1.0487	Ave		1.0937				7.1		15.0			
tert-Butylbenzene	4.0911 3.9720	4.5565 3.8554	4.3490	4.0893	4.0811	Ave		4.1421				5.7		15.0			
1,2,4-Trimethylbenzene	+++++ 4.0404	4.7532 3.8251	4.6134	4.2554	4.1753	Ave		4.2771				8.2		15.0			
sec-Butylbenzene	+++++ 1.0745	1.1954 1.0895	1.1397	1.0667	1.0675	Ave		1.1056				4.7		15.0			
4-Isopropyltoluene	+++++ 4.4505	5.1517 4.2558	4.9729	4.6858	4.5936	Ave		4.6851				7.1		15.0			
1,3-Dichlorobenzene	2.0209 1.7650	1.9768 1.7520	1.9338	1.8085	1.7737	Ave		1.8615				6.0		15.0			
1,4-Dichlorobenzene	1.9295 1.7180	1.9530 1.7024	1.8770	1.7541	1.7428	Ave		1.8110				5.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 10:28 Calibration End Date: 11/28/2010 12:25 Calibration ID: 3821

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butylbenzene	+++++ 4.7237	5.6679 4.4411	5.5447	5.2555	5.0026	Ave		5.1059				9.3		15.0			
1,2-Dichlorobenzene	1.7410 1.4495	1.6030 1.4512	1.6076	1.5197	1.4623	Ave		1.5477				7.0		15.0			
1,2,4-Trichlorobenzene	+++++ 0.9793	1.0250 0.9716	1.0755	1.0431	0.9695	Ave		1.0107				4.4		15.0			
Hexachlorobutadiene	+++++ 0.6492	0.6532 0.6587	0.7110	0.6846	0.6500	Ave		0.6678				3.7		15.0			
Naphthalene	+++++ 1.5712	1.7179 1.5101	1.7088	1.6702	1.5462	Ave		1.6207				5.5		15.0			
1,2,3-Trichlorobenzene	+++++ 0.7685	0.8002 0.7526	0.8278	0.8105	0.7513	Ave		0.7851				4.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 10:28 Calibration End Date: 11/28/2010 12:25 Calibration ID: 3821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-42958/2	g2_7794.D
Level 2	IC 280-42958/3	g2_7795.D
Level 3	IC 280-42958/4	g2_7796.D
Level 4	IC 280-42958/5	g2_7797.D
Level 5	IC 280-42958/6	g2_7798.D
Level 6	IC 280-42958/7	g2_7799.D
Level 7	IC 280-42958/8	g2_7800.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethene, Total	FB	Ave	23869 2153826	81556 4298129	152717	351950	715562	0.600 60.0	2.00 120	4.00	10.0	20.0
Xylenes, Total	CBZ	Ave	53742 6027647	209145 11335617	391023	865890	1891380	0.900 90.0	3.00 180	6.00	15.0	30.0
Dichlorodifluoromethane	FB	Ave	14975 1355630	42593 +++++	98124	225075	446855	0.300 30.0	1.00 +++++	2.00	5.00	10.0
Chloromethane	FB	Ave	+++++ 1463097	54252 2816825	102989	240184	482525	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Ethanol	FB	Lin1	+++++ 264933	+++++ 487118	32322	50053	86394	+++++ 1500	+++++ 3000	100	250	500
Vinyl chloride	FB	Ave	17624 1517666	55894 2906668	109201	255200	506115	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromomethane	FB	Ave	+++++ 840830	31910 1589279	58492	131410	266911	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloroethane	FB	Ave	+++++ 1006050	39155 1881476	72490	163891	331108	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methylene Chloride	FB	Ave	+++++ 883519	33843 1726207	61264	148533	296384	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	17988 1741802	63201 3418207	120132	283863	565507	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Acrolein	FB	Ave	+++++ 678910	25051 1249654	45366	99189	215379	+++++ 300	10.0 600	20.0	50.0	100
Acetone	FB	Lin1	14891 482101	26195 880808	43059	83378	166932	1.20 120	4.00 240	8.00	20.0	40.0
1,1-Dichloroethene	FB	Ave	+++++ 1029338	38796 2037247	71577	166897	342038	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acetonitrile	FB	Ave	+++++ 493366	18352 924179	37062	83764	163601	+++++ 300	10.0 600	20.0	50.0	100
Iodomethane	FB	Ave	+++++ 1082545	37735 2187511	75818	178881	356341	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 10:28 Calibration End Date: 11/28/2010 12:25 Calibration ID: 3821

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tert-butyl alcohol (2-methyl-2-propanol)	FB	Lin1	+++++ 571226	26794 1060420	52654	107183	214128	+++++ 600	20.0 1200	40.0	100	200
Acrylonitrile	FB	Ave	+++++ 1521266	+++++ 2873869	110259	246306	500122	+++++ 300	+++++ 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	+++++ 1067904	40570 2131262	76571	177368	356123	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	40525 3839790	143078 7016170	268031	610621	1273885	1.50 150	5.00 300	10.0	25.0	50.0
1,1-Dichloroethane	FB	Ave	23406 2107400	79574 4076258	154303	348383	707953	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroprene	FB	Ave	+++++ 2283561	88344 4405749	166792	377179	768227	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	+++++ 722647	28468 1323867	51041	104188	229711	+++++ 120	4.00 240	8.00	20.0	40.0
Propionitrile	FB	Ave	+++++ 559084	24182 1058908	41920	89996	180616	+++++ 300	10.0 600	20.0	50.0	100
cis-1,2-Dichloroethene	FB	Ave	11621 1085922	40986 2166867	76146	174582	359439	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2,2-Dichloropropane	FB	Ave	+++++ 1147291	46477 2250417	85937	201844	398110	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methacrylonitrile	FB	Ave	+++++ 2785038	106428 5038100	195877	429882	927011	+++++ 300	10.0 600	20.0	50.0	100
Bromochloromethane	FB	Ave	+++++ 346373	12323 694479	22893	52400	109521	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	19956 1766326	65595 3420792	125381	280446	580464	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 266826	+++++ 513840	18777	43461	84943	+++++ 600	+++++ 1200	40.0	100	200
1,1,1-Trichloroethane	FB	Ave	17063 1515747	57326 2991307	108036	251695	501551	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	16739 1704521	64541 3325969	120651	269466	569927	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	12993 1282517	44655 2575383	86524	197742	407357	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Ave	9726 1047973	39902 1981186	72533	161068	340878	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Benzene	FB	Ave	45051 4552221	170109 8608982	315484	707539	1496551	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butanol	FB	Lin1	+++++ 375825	31660 723290	44957	68438	136793	+++++ 900	30.0 1800	60.0	150	300
Trichloroethene	FB	Ave	9460 1034128	34344 2011741	68042	150900	328072	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 10:28 Calibration End Date: 11/28/2010 12:25 Calibration ID: 3821

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	10322 1090959	40361 2053828	73068	163486	347619	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dioxane	FB	Ave	1483 184818	6484 349194	11571	26855	59586	15.0 1500	50.0 3000	100	200	500
Dibromomethane	FB	Ave	+++++ 364489	13942 707961	24697	55622	116775	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	11300 1153440	40431 2222675	75962	166708	360976	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	+++++ 1496295	52968 2815277	94482	206246	460314	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Methyl-2-pentanone	FB	Ave	+++++ 1677060	65298 3012805	113344	243000	532941	+++++ 120	4.00 240	8.00	20.0	40.0
Toluene	FB	Ave	43835 4593559	172755 8466496	314728	686079	1491019	0.300 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	+++++ 1096270	38994 2053424	67574	139441	331556	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromoform	CBZ	Ave	+++++ 246691	7484 495952	13579	31071	70511	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloroethane	FB	Ave	4300 493425	18464 928740	31897	69418	148804	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Hexanone	CBZ	Ave	+++++ 1150280	46552 2012185	81183	159315	357015	+++++ 120	4.00 240	8.00	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	+++++ 1030802	37079 1898150	66658	140188	313053	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	6137 751661	25354 1504215	45649	102981	227463	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Dibromochloromethane	CBZ	Ave	+++++ 546864	17329 1068712	32163	70660	162455	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromoethane (EDB)	CBZ	Ave	+++++ 456188	16930 865223	29434	61281	139433	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	+++++ 1632994	61528 3067172	107253	232146	509835	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	22462 2553567	91935 4906256	166850	360499	797202	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	6771 784136	25586 1574654	47519	108125	237855	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	14096 1653177	57564 3219506	105538	232143	512178	0.300 30.0	1.00 60.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	36604 4079014	141893 7603870	265852	583015	1277174	0.600 60.0	2.00 120	4.00	10.0	20.0
o-Xylene	CBZ	Ave	17138 1948633	67252 3731747	125171	282875	614206	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 10:28 Calibration End Date: 11/28/2010 12:25 Calibration ID: 3821

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBZ	Ave	+++++ 3023069	105407 5641480	195531	430571	940039	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	+++++ 4917002	177341 9392207	328194	741552	1594665	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexanone	CBZ	Ave	+++++ 669830	23453 1249924	45056	98959	212260	+++++ 1200	40.0 2400	80.0	200	400
1,1,2,2-Tetrachloroethane	DCB	Ave	+++++ 537997	20823 1071987	36838	81193	172927	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 135513	5030 263881	9076	19968	42563	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
n-Propylbenzene	DCB	Ave	13600 1493726	50375 2972842	94293	213309	460934	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	7757 909256	29505 1819394	56068	123885	274047	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 74285	+++++ 155294	4572	11151	21654	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	+++++ 4375567	152584 8465302	290858	657833	1402958	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	9956 1142500	38146 2301321	71271	163709	351127	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	10369 1123077	38043 2253098	72578	161802	351449	0.300 30.0	1.00 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	35723 4312499	145605 8605148	275723	635776	1367667	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	+++++ 4386753	151888 8537582	292486	661595	1399240	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	+++++ 1166617	38200 2431830	72259	165851	357727	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	+++++ 4831990	164624 9498898	315278	728523	1539418	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	17646 1916300	63170 3910322	122603	281176	594389	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	16848 1865233	62409 3799721	118998	272710	584064	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	+++++ 5128596	181119 9912335	351530	817087	1676489	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	15202 1573748	51224 3238948	101918	236277	490039	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 1063230	32755 2168495	68186	162179	324913	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	+++++ 704796	20874 1470216	45077	106430	217824	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 10:28 Calibration End Date: 11/28/2010 12:25 Calibration ID: 3821

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	DCB	Ave	+++++ 1705894	54895 3370571	108335	259671	518166	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	+++++ 834365	25570 1679817	52480	126018	251773	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7794.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 10:28
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,M0.5
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:51 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	7.859	7.859	(1.000)	1074622	10.0000	
* 85	Chlorobenzene-d5	119	10.126	10.126	(1.000)	191599	10.0000	
* 110	1,4-Dichlorobenzene-d4	152	11.999	11.999	(1.000)	291060	10.0000	(Q)
M 1	1,2-Dichloroethene (total)	96				23869	0.60000	0.754746(a)
M 2	Xylene (total)	106				53742	0.90000	1.02718
M 3	1,3-Dichloropropene (total)	100				20495	0.60000	0.595695(a)
M 4	Trihalomethanes (total)	100				35411	1.20000	1.04498
5	dichlorodifluoromethane	85	4.059	4.059	(0.517)	14975	0.30000	0.370960(a)
7	Chloromethane	50	4.297	4.297	(0.547)	16607	0.30000	0.397202(a)
8	Vinyl Chloride	62	4.450	4.450	(0.566)	17624	0.30000	0.384289
10	Bromomethane	94	4.827	4.827	(0.614)	12125	0.30000	0.512314(a)
11	Chloroethane	64	4.911	4.911	(0.625)	13135	0.30000	0.453668(a)
13	Trichlorofluoromethane	101	5.163	5.163	(0.657)	17988	0.30000	0.353556(a)
14	Ethanol	45	Compound Not Detected.					
19	Acrolein	56	5.470	5.470	(0.696)	6228	3.00000	3.35028(a)
20	Acetone	43	5.582	5.582	(0.710)	14891	1.20000	1.15895(a)
23	1,1-Dichloroethene	96	5.624	5.624	(0.716)	12471	0.30000	0.422219(a)
24	Iodomethane	142	5.791	5.791	(0.737)	12204	0.30000	0.395807(a)
25	Acetonitrile	41	5.791	5.791	(0.737)	6151	3.00000	4.29766(a)
29	tert-Butyl alcohol	59	5.917	5.917	(0.753)	10968	6.00000	-2.19990(a)
30	Methylene Chloride	84	Compound Not Detected.					
31	Acrylonitrile	53	6.122	6.122	(0.779)	20443	3.00000	4.78215(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.208	6.208	(0.790)	12248	0.30000	0.394597(a)
36 Isopropyl ether	87	6.487	6.487	(0.825)	40525	1.50000	1.80685(aQ)
37 1,1-Dichloroethane	63	6.529	6.529	(0.831)	23406	0.30000	0.368278(a)
38 Chloroprene	53	6.601	6.601	(0.840)	24546	0.30000	0.369112(a)
41 2-Butanone	43	6.901	6.901	(0.878)	7915	1.20000	1.56853(a)
43 cis-1,2-Dichloroethene	96	6.958	6.958	(0.885)	11621	0.30000	0.360149(a)
42 Propionitrile	54	6.951	6.951	(0.884)	8870	3.00000	5.37800(a)
44 2,2-Dichloropropane	77	6.987	6.987	(0.889)	16249	0.30000	0.471242(a)
45 Methacrylonitrile	41	7.087	7.087	(0.902)	28420	3.00000	3.61709(a)
46 Bromochloromethane	128	7.166	7.166	(0.912)	3472	0.30000	0.362403(a)
47 Chloroform	83	7.173	7.173	(0.913)	19956	0.30000	0.379318(a)
51 1,1,1-Trichloroethane	97	7.402	7.402	(0.942)	17063	0.30000	0.373340(a)
50 Isobutanol	41	7.359	7.359	(0.936)	3903	6.00000	10.4932(aQ)
53 1,1-Dichloropropene	75	7.502	7.502	(0.955)	16739	0.30000	0.335915(a)
54 Carbon Tetrachloride	117	7.545	7.545	(0.960)	12993	0.30000	0.353920(a)
56 1,2-Dichloroethane	62	7.659	7.659	(0.975)	9726	0.30000	0.324890(a)
58 Benzene	78	7.688	7.688	(0.978)	45051	0.30000	0.342813(a)
60 n-Butanol	56	7.859	7.859	(1.000)	11326	9.00000	-19.5200(a)
61 Trichloroethene	130	8.153	8.153	(1.037)	9460	0.30000	0.332379(a)
64 1,2-Dichloropropane	63	8.324	8.324	(1.059)	10322	0.30000	0.335610(a)
66 1,4-Dioxane	88	8.381	8.381	(1.066)	1483	15.0000	14.3822(a)
67 Dibromomethane	93	8.424	8.424	(1.072)	3705	0.30000	0.361656(a)
68 Bromodichloromethane	83	8.489	8.489	(1.080)	11300	0.30000	0.350748(a)
71 cis-1,3-Dichloropropene	75	8.810	8.810	(1.121)	12233	0.30000	0.307150(a)
72 4-Methyl-2-pentanone	43	8.860	8.860	(1.127)	16306	1.20000	1.40964(a)
74 Toluene	91	9.089	9.089	(1.156)	43835	0.30000	0.336254(a)
76 trans-1,3-Dichloropropene	75	9.175	9.175	(1.167)	8262	0.30000	0.288545(a)
77 1,1,2-Trichloroethane	97	9.339	9.339	(1.188)	4300	0.30000	0.319214(a)
78 2-Hexanone	43	9.447	9.447	(0.933)	12428	1.20000	1.65689(a)
79 1,3-Dichloropropane	76	9.475	9.475	(0.936)	8380	0.30000	0.323503(a)
80 Tetrachloroethene	164	9.511	9.511	(0.939)	6137	0.30000	0.323330(a)
81 Dibromochloromethane	129	9.676	9.676	(0.956)	4155	0.30000	0.314920(aQ)
83 1,2-Dibromoethane	107	9.804	9.804	(0.968)	3639	0.30000	0.314538(a)
84 1-Chlorohexane	91	10.040	10.040	(0.992)	14268	0.30000	0.338771(a)
86 Chlorobenzene	112	10.155	10.155	(1.003)	22462	0.30000	0.336464(a)
87 1,1,1,2-Tetrachloroethane	131	10.183	10.183	(1.006)	6771	0.30000	0.340106(a)
88 Ethylbenzene	106	10.190	10.190	(1.006)	14096	0.30000	0.330522(a)
89 m and p-Xylene	106	10.269	10.269	(1.014)	36604	0.60000	0.689383
91 o-Xylene	106	10.591	10.591	(1.046)	17138	0.30000	0.337800(a)
90 Styrene	104	10.591	10.591	(1.046)	26776	0.30000	0.349738(a)
92 Bromoform	173	Compound Not Detected.					
93 isopropyl benzene	105	10.855	10.855	(0.905)	47733	0.30000	0.339406(a)
95 Cyclohexanone	55	10.977	10.977	(1.084)	8067	12.0000	18.7036(a)
97 1,1,2,2-Tetrachloroethane	83	11.048	11.048	(0.921)	6497	0.30000	0.412510(a)
99 1,2,3-Trichloropropane	110	11.127	11.127	(0.927)	1303	0.30000	0.336155(aQ)
101 Bromobenzene	156	11.184	11.184	(0.932)	7757	0.30000	0.312843(aQ)
100 n-Propylbenzene	120	11.177	11.177	(0.931)	13600	0.30000	0.324600(aQ)
103 2-Chlorotoluene	126	11.306	11.306	(0.942)	9956	0.30000	0.313315(aQ)
102 1,3,5-Trimethylbenzene	105	11.291	11.291	(0.941)	42185	0.30000	0.339652(a)
104 4-Chlorotoluene	126	11.384	11.384	(0.949)	10369	0.30000	0.325720(aQ)
105 tert-Butylbenzene	119	11.599	11.599	(0.967)	35723	0.30000	0.296311(a)
106 1,2,4-Trimethylbenzene	105	11.628	11.628	(0.969)	42864	0.30000	0.344316(a)
107 sec-Butylbenzene	134	11.785	11.785	(0.982)	9635	0.30000	0.299421(aQ)
108 4-Isopropyltoluene	119	11.878	11.878	(0.990)	46234	0.30000	0.339049(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109	1,3-Dichlorobenzene	146	11.949	11.949	(0.996)	17646	0.30000	0.325682(a)
112	1,4-dichlorobenzene	146	12.021	12.021	(1.002)	16848	0.30000	0.319636(a)
113	n-Butylbenzene	91	12.257	12.257	(1.021)	54425	0.30000	0.366220(a)
114	1,2-Dichlorobenzene	146	12.393	12.393	(1.033)	15202	0.30000	0.337457(a)
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	14.152	14.152	(1.179)	10797	0.30000	0.367036(a)
117	Hexachlorobutadiene	225	14.316	14.316	(1.193)	6684	0.30000	0.343895(a)
118	Naphthalene	128	14.531	14.531	(1.211)	18252	0.30000	0.386916(a)
119	1,2,3-Trichlorobenzene	180	14.867	14.867	(1.239)	8148	0.30000	0.356546(a)

QC Flag Legend

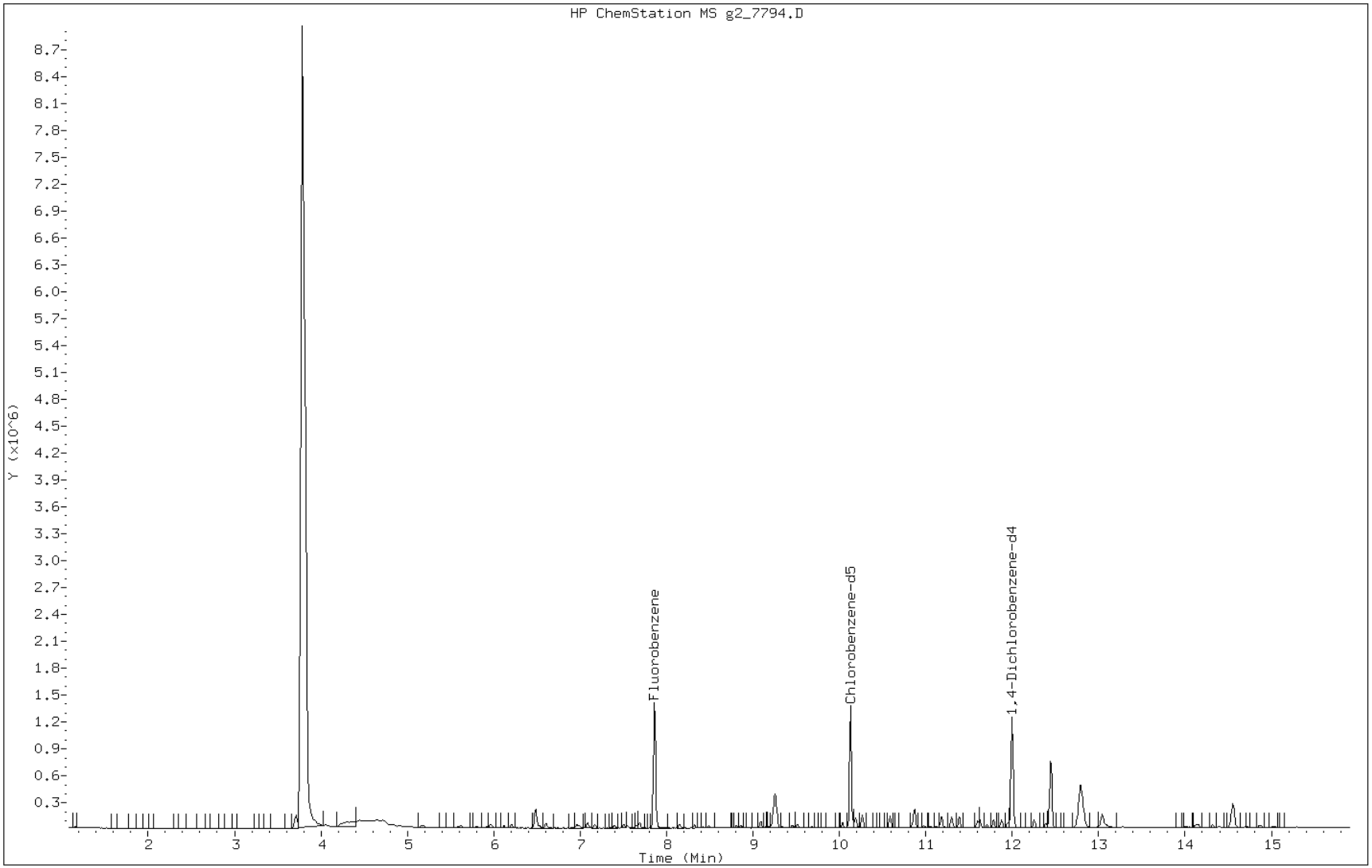
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7794.D

Date: 28-NOV-2010 10:28

Client ID: Instrument: GCMS2.i

Sample Info: IC,,M0.5 Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7795.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 10:48
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,M001
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:51 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 13:43 Cal File: g2_7804.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	7.859	7.859	(1.000)	1290987	10.0000	
* 85	Chlorobenzene-d5	119	10.126	10.126	(1.000)	247352	10.0000	
* 110	1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	319552	10.0000	
M 1	1,2-Dichloroethene (total)	96				81556	2.00000	2.14532
M 2	Xylene (total)	106				209145	3.00000	3.09680
M 3	1,3-Dichloropropene (total)	100				91962	2.00000	2.24064
M 4	Trihalomethanes (total)	100				130839	4.00000	4.09693
5	dichlorodifluoromethane	85	4.059	4.059	(0.517)	42593	1.00000	0.878278(a)
7	Chloromethane	50	4.311	4.311	(0.548)	54252	1.00000	1.08011(a)
8	Vinyl Chloride	62	4.450	4.450	(0.566)	55894	1.00000	1.01450
10	Bromomethane	94	4.841	4.841	(0.616)	31910	1.00000	1.12232(a)
11	Chloroethane	64	4.925	4.925	(0.627)	39155	1.00000	1.12572(a)
13	Trichlorofluoromethane	101	5.163	5.163	(0.657)	63201	1.00000	1.03403(a)
14	Ethanol	45	5.163	5.163	(0.657)	11292	50.0000	-36.0686(a)
19	Acrolein	56	5.470	5.470	(0.696)	25051	10.0000	11.2174(a)
20	Acetone	43	5.582	5.582	(0.710)	26195	4.00000	3.43681(a)
23	1,1-Dichloroethene	96	5.624	5.624	(0.716)	38796	1.00000	1.09334
24	Iodomethane	142	5.791	5.791	(0.737)	37735	1.00000	1.01873
25	Acetonitrile	41	5.791	5.791	(0.737)	18352	10.0000	10.6734(a)
29	tert-Butyl alcohol	59	5.917	5.917	(0.753)	26794	20.0000	13.1310(a)
30	Methylene Chloride	84	5.959	5.959	(0.758)	33843	1.00000	1.10198
31	Acrylonitrile	53	6.115	6.115	(0.778)	59606	10.0000	11.6065(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.208	6.208	(0.790)	40570	1.00000	1.08800
36 Isopropyl ether	87	6.487	6.487	(0.825)	143078	5.00000	5.31015(a)
37 1,1-Dichloroethane	63	6.522	6.522	(0.830)	79574	1.00000	1.04220
38 Chloroprene	53	6.601	6.601	(0.840)	88344	1.00000	1.10583
41 2-Butanone	43	6.901	6.901	(0.878)	28468	4.00000	4.69606(a)
43 cis-1,2-Dichloroethene	96	6.966	6.966	(0.886)	40986	1.00000	1.05732
42 Propionitrile	54	6.951	6.951	(0.884)	24182	10.0000	12.2046
44 2,2-Dichloropropane	77	6.994	6.994	(0.890)	46477	1.00000	1.12199(a)
45 Methacrylonitrile	41	7.087	7.087	(0.902)	106428	10.0000	11.2752
46 Bromochloromethane	128	7.159	7.159	(0.911)	12323	1.00000	1.07069
47 Chloroform	83	7.173	7.173	(0.913)	65595	1.00000	1.03785
51 1,1,1-Trichloroethane	97	7.395	7.395	(0.941)	57326	1.00000	1.04408
50 Isobutanol	41	7.359	7.359	(0.936)	9214	20.0000	20.6201(aQ)
53 1,1-Dichloropropene	75	7.502	7.502	(0.955)	64541	1.00000	1.07812
54 Carbon Tetrachloride	117	7.545	7.545	(0.960)	44655	1.00000	1.01251
56 1,2-Dichloroethane	62	7.652	7.652	(0.974)	39902	1.00000	1.10951
58 Benzene	78	7.688	7.688	(0.978)	170109	1.00000	1.07749
60 n-Butanol	56	7.859	7.859	(1.000)	31660	30.0000	27.8961(a)
61 Trichloroethene	130	8.145	8.145	(1.036)	34344	1.00000	1.00445
64 1,2-Dichloropropane	63	8.324	8.324	(1.059)	40361	1.00000	1.09236
66 1,4-Dioxane	88	8.374	8.374	(1.065)	6484	50.0000	52.3432(a)
67 Dibromomethane	93	8.424	8.424	(1.072)	13942	1.00000	1.13283
68 Bromodichloromethane	83	8.489	8.489	(1.080)	40431	1.00000	1.04464
71 cis-1,3-Dichloropropene	75	8.803	8.803	(1.120)	52968	1.00000	1.10704
72 4-Methyl-2-pentanone	43	8.853	8.853	(1.126)	65298	4.00000	4.69888(a)
74 Toluene	91	9.089	9.089	(1.156)	172755	1.00000	1.10309
76 trans-1,3-Dichloropropene	75	9.175	9.175	(1.167)	38994	1.00000	1.13360
77 1,1,2-Trichloroethane	97	9.332	9.332	(1.187)	18464	1.00000	1.14097
78 2-Hexanone	43	9.447	9.447	(0.933)	46552	4.00000	4.80738(a)
79 1,3-Dichloropropane	76	9.475	9.475	(0.936)	37079	1.00000	1.10877
80 Tetrachloroethene	164	9.511	9.511	(0.939)	25354	1.00000	1.03470
81 Dibromochloromethane	129	9.668	9.668	(0.955)	17329	1.00000	1.01737(Q)
83 1,2-Dibromoethane	107	9.797	9.797	(0.968)	16930	1.00000	1.13351
84 1-Chlorohexane	91	10.033	10.033	(0.991)	61528	1.00000	1.13160
86 Chlorobenzene	112	10.147	10.147	(1.002)	91935	1.00000	1.06672
87 1,1,1,2-Tetrachloroethane	131	10.183	10.183	(1.006)	25586	1.00000	0.995500(a)
88 Ethylbenzene	106	10.183	10.183	(1.006)	57564	1.00000	1.04552
89 m and p-Xylene	106	10.262	10.262	(1.013)	141893	2.00000	2.07000
91 o-Xylene	106	10.584	10.584	(1.045)	67252	1.00000	1.02679
90 Styrene	104	10.584	10.584	(1.045)	105407	1.00000	1.06646
92 Bromoform	173	10.784	10.784	(1.065)	7484	1.00000	0.997075(a)
93 isopropyl benzene	105	10.848	10.848	(0.905)	177341	1.00000	1.14855
95 Cyclohexanone	55	10.970	10.970	(1.083)	23453	40.0000	42.1202
97 1,1,2,2-Tetrachloroethane	83	11.048	11.048	(0.921)	20823	1.00000	1.20422
99 1,2,3-Trichloropropane	110	11.120	11.120	(0.927)	5030	1.00000	1.18196(Q)
101 Bromobenzene	156	11.177	11.177	(0.932)	29505	1.00000	1.08385
100 n-Propylbenzene	120	11.177	11.177	(0.932)	50375	1.00000	1.09513
103 2-Chlorotoluene	126	11.306	11.306	(0.943)	38146	1.00000	1.09342
102 1,3,5-Trimethylbenzene	105	11.284	11.284	(0.941)	152584	1.00000	1.11899
104 4-Chlorotoluene	126	11.377	11.377	(0.949)	38043	1.00000	1.08849(Q)
105 tert-Butylbenzene	119	11.592	11.592	(0.967)	145605	1.00000	1.10006
106 1,2,4-Trimethylbenzene	105	11.620	11.620	(0.969)	151888	1.00000	1.11129
107 sec-Butylbenzene	134	11.778	11.778	(0.982)	38200	1.00000	1.08127
108 4-Isopropyltoluene	119	11.871	11.871	(0.990)	164624	1.00000	1.09960

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	11.942	11.942	(0.996)	63170	1.00000	1.06194
112 1,4-dichlorobenzene	146	12.014	12.014	(1.002)	62409	1.00000	1.07844
113 n-Butylbenzene	91	12.250	12.250	(1.021)	181119	1.00000	1.11006
114 1,2-Dichlorobenzene	146	12.385	12.385	(1.033)	51224	1.00000	1.03570
115 1,2-Dibromo-3-chloropropane	157	13.143	13.143	(1.096)	2290	1.00000	1.03424(a)
116 1,2,4-Trichlorobenzene	180	14.144	14.144	(1.179)	32755	1.00000	1.01420
117 Hexachlorobutadiene	225	14.309	14.309	(1.193)	20874	1.00000	0.978218(a)
118 Naphthalene	128	14.523	14.523	(1.211)	54895	1.00000	1.05994
119 1,2,3-Trichlorobenzene	180	14.859	14.859	(1.239)	25570	1.00000	1.01915

QC Flag Legend

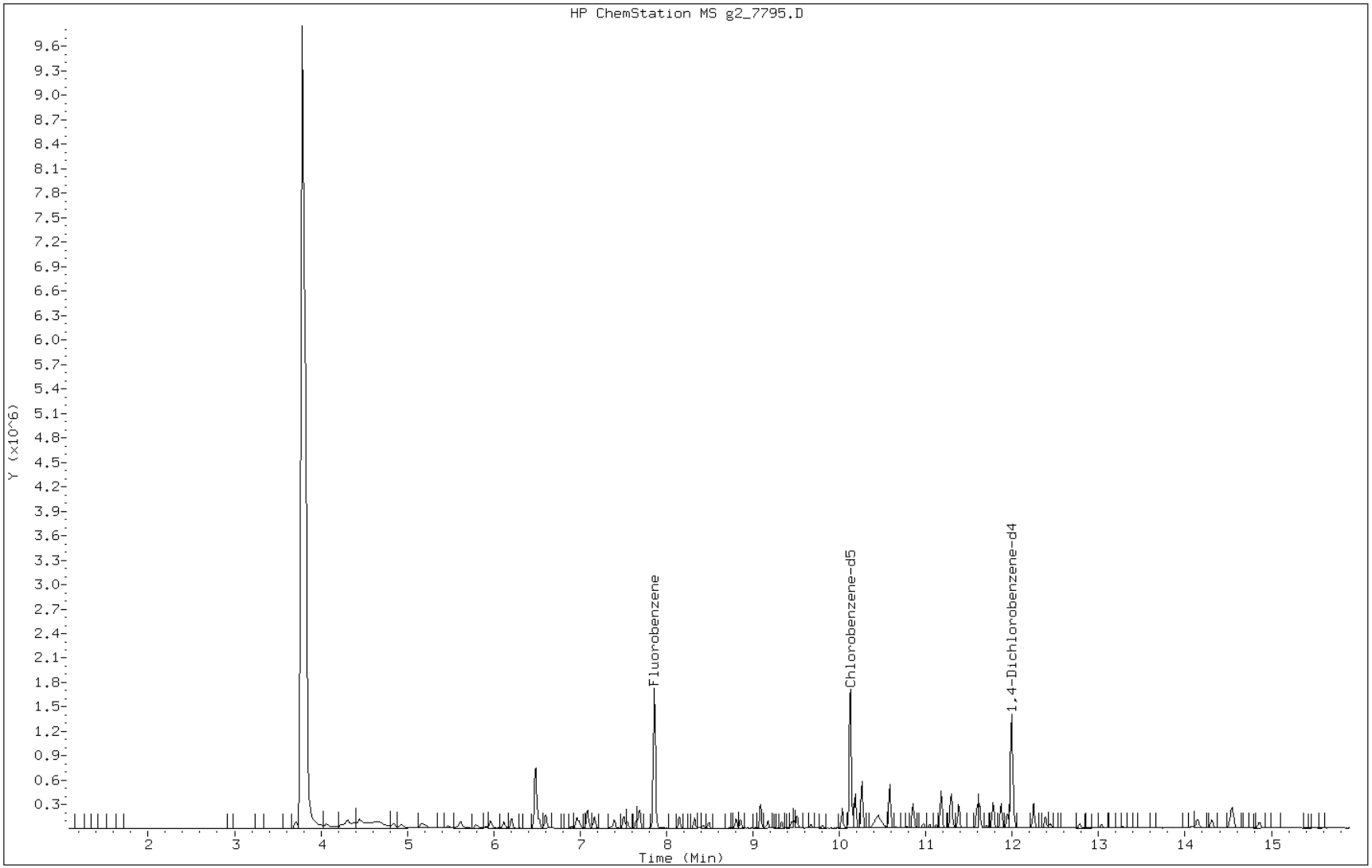
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7795.D

Date: 28-NOV-2010 10:48

Client ID: Instrument: GCMS2.i

Sample Info: IC,,M001 Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7796.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 11:07
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,M002
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:51 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 14:03 Cal File: g2_7805.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	7.859	7.859	(1.000)	1249473	10.0000	
* 85	Chlorobenzene-d5	119	10.126	10.126	(1.000)	231700	10.0000	
* 110	1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	316997	10.0000	
M 1	1,2-Dichloroethene (total)	96				152717	4.00000	4.15131
M 2	Xylene (total)	106				391023	6.00000	6.18056
M 3	1,3-Dichloropropene (total)	100				162056	4.00000	4.07003
M 4	Trihalomethanes (total)	100				247085	8.00000	8.02471
5	dichlorodifluoromethane	85	4.059	4.059	(0.517)	98124	2.00000	2.09056
7	Chloromethane	50	4.311	4.311	(0.548)	102989	2.00000	2.11856
8	Vinyl Chloride	62	4.450	4.450	(0.566)	109201	2.00000	2.04790
10	Bromomethane	94	4.841	4.841	(0.616)	58492	2.00000	2.12559
11	Chloroethane	64	4.925	4.925	(0.627)	72490	2.00000	2.15335
13	Trichlorofluoromethane	101	5.163	5.163	(0.657)	120132	2.00000	2.03078
14	Ethanol	45	5.163	5.163	(0.657)	32322	100.000	107.615(a)
19	Acrolein	56	5.470	5.470	(0.696)	45366	20.0000	20.9890
20	Acetone	43	5.582	5.582	(0.710)	43059	8.00000	8.45408(a)
23	1,1-Dichloroethene	96	5.624	5.624	(0.716)	71577	2.00000	2.08420
24	Iodomethane	142	5.791	5.791	(0.737)	75818	2.00000	2.11486
25	Acetonitrile	41	5.791	5.791	(0.737)	37062	20.0000	22.2712
29	tert-Butyl alcohol	59	5.917	5.917	(0.753)	52654	40.0000	44.2138(a)
30	Methylene Chloride	84	5.959	5.959	(0.758)	61264	2.00000	2.06113
31	Acrylonitrile	53	6.115	6.115	(0.778)	110259	20.0000	22.1830

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.208	6.208	(0.790)	76571	2.00000	2.12169
36 Isopropyl ether	87	6.487	6.487	(0.825)	268031	10.0000	10.2781
37 1,1-Dichloroethane	63	6.522	6.522	(0.830)	154303	2.00000	2.08810
38 Chloroprene	53	6.601	6.601	(0.840)	166792	2.00000	2.15715
41 2-Butanone	43	6.901	6.901	(0.878)	51041	8.00000	8.69943
43 cis-1,2-Dichloroethene	96	6.958	6.958	(0.885)	76146	2.00000	2.02962
42 Propionitrile	54	6.951	6.951	(0.884)	41920	20.0000	21.8598
44 2,2-Dichloropropane	77	6.994	6.994	(0.890)	85937	2.00000	2.14352(a)
45 Methacrylonitrile	41	7.087	7.087	(0.902)	195877	20.0000	21.4411
46 Bromochloromethane	128	7.159	7.159	(0.911)	22893	2.00000	2.05515
47 Chloroform	83	7.166	7.166	(0.912)	125381	2.00000	2.04970
51 1,1,1-Trichloroethane	97	7.395	7.395	(0.941)	108036	2.00000	2.03304
50 Isobutanol	41	7.359	7.359	(0.936)	18777	40.0000	43.4174(a)
53 1,1-Dichloropropene	75	7.502	7.502	(0.955)	120651	2.00000	2.08238
54 Carbon Tetrachloride	117	7.545	7.545	(0.960)	86524	2.00000	2.02703
56 1,2-Dichloroethane	62	7.652	7.652	(0.974)	72533	2.00000	2.08385
58 Benzene	78	7.688	7.688	(0.978)	315484	2.00000	2.06471
60 n-Butanol	56	7.859	7.859	(1.000)	44957	60.0000	66.7425
61 Trichloroethene	130	8.145	8.145	(1.036)	68042	2.00000	2.05612
64 1,2-Dichloropropane	63	8.324	8.324	(1.059)	73068	2.00000	2.04328
66 1,4-Dioxane	88	8.374	8.374	(1.065)	11571	100.000	96.5125(a)
67 Dibromomethane	93	8.424	8.424	(1.072)	24697	2.00000	2.07338
68 Bromodichloromethane	83	8.489	8.489	(1.080)	75962	2.00000	2.02788
71 cis-1,3-Dichloropropene	75	8.803	8.803	(1.120)	94482	2.00000	2.04031
72 4-Methyl-2-pentanone	43	8.853	8.853	(1.126)	113344	8.00000	8.42729
74 Toluene	91	9.089	9.089	(1.156)	314728	2.00000	2.07640
76 trans-1,3-Dichloropropene	75	9.175	9.175	(1.167)	67574	2.00000	2.02972
77 1,1,2-Trichloroethane	97	9.332	9.332	(1.187)	31897	2.00000	2.03654
78 2-Hexanone	43	9.447	9.447	(0.933)	81183	8.00000	8.95002
79 1,3-Dichloropropane	76	9.468	9.468	(0.935)	66658	2.00000	2.12791
80 Tetrachloroethene	164	9.511	9.511	(0.939)	45649	2.00000	1.98879
81 Dibromochloromethane	129	9.668	9.668	(0.955)	32163	2.00000	2.01582
83 1,2-Dibromoethane	107	9.797	9.797	(0.968)	29434	2.00000	2.10382
84 1-Chlorohexane	91	10.033	10.033	(0.991)	107253	2.00000	2.10582
86 Chlorobenzene	112	10.147	10.147	(1.002)	166850	2.00000	2.06673
87 1,1,1,2-Tetrachloroethane	131	10.176	10.176	(1.005)	47519	2.00000	1.97377
88 Ethylbenzene	106	10.183	10.183	(1.006)	105538	2.00000	2.04635
89 m and p-Xylene	106	10.262	10.262	(1.013)	265852	4.00000	4.14037
91 o-Xylene	106	10.584	10.584	(1.045)	125171	2.00000	2.04019
90 Styrene	104	10.584	10.584	(1.045)	195531	2.00000	2.11193
92 Bromoform	173	10.784	10.784	(1.065)	13579	2.00000	1.93131
93 isopropyl benzene	105	10.848	10.848	(0.905)	328194	2.00000	2.14269
95 Cyclohexanone	55	10.970	10.970	(1.083)	45056	80.0000	86.3842
97 1,1,2,2-Tetrachloroethane	83	11.048	11.048	(0.921)	36838	2.00000	2.14756
99 1,2,3-Trichloropropane	110	11.120	11.120	(0.927)	9076	2.00000	2.14990
101 Bromobenzene	156	11.177	11.177	(0.932)	56068	2.00000	2.07622
100 n-Propylbenzene	120	11.177	11.177	(0.932)	94293	2.00000	2.06641
103 2-Chlorotoluene	126	11.299	11.299	(0.942)	71271	2.00000	2.05938
102 1,3,5-Trimethylbenzene	105	11.284	11.284	(0.941)	290858	2.00000	2.15023
104 4-Chlorotoluene	126	11.377	11.377	(0.949)	72578	2.00000	2.09334
105 tert-Butylbenzene	119	11.592	11.592	(0.967)	275723	2.00000	2.09991
106 1,2,4-Trimethylbenzene	105	11.620	11.620	(0.969)	292486	2.00000	2.15723
107 sec-Butylbenzene	134	11.778	11.778	(0.982)	72259	2.00000	2.06181
108 4-Isopropyltoluene	119	11.871	11.871	(0.990)	315278	2.00000	2.12286

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	11.942	11.942	(0.996)	122603	2.00000	2.07767
112 1,4-dichlorobenzene	146	12.014	12.014	(1.002)	118998	2.00000	2.07288
113 n-Butylbenzene	91	12.250	12.250	(1.021)	351530	2.00000	2.17187
114 1,2-Dichlorobenzene	146	12.386	12.386	(1.033)	101918	2.00000	2.07729
115 1,2-Dibromo-3-chloropropane	157	13.143	13.143	(1.096)	4572	2.00000	2.08152
116 1,2,4-Trichlorobenzene	180	14.144	14.144	(1.179)	68186	2.00000	2.12828
117 Hexachlorobutadiene	225	14.309	14.309	(1.193)	45077	2.00000	2.12947
118 Naphthalene	128	14.523	14.523	(1.211)	108335	2.00000	2.10864
119 1,2,3-Trichlorobenzene	180	14.859	14.859	(1.239)	52480	2.00000	2.10856

QC Flag Legend

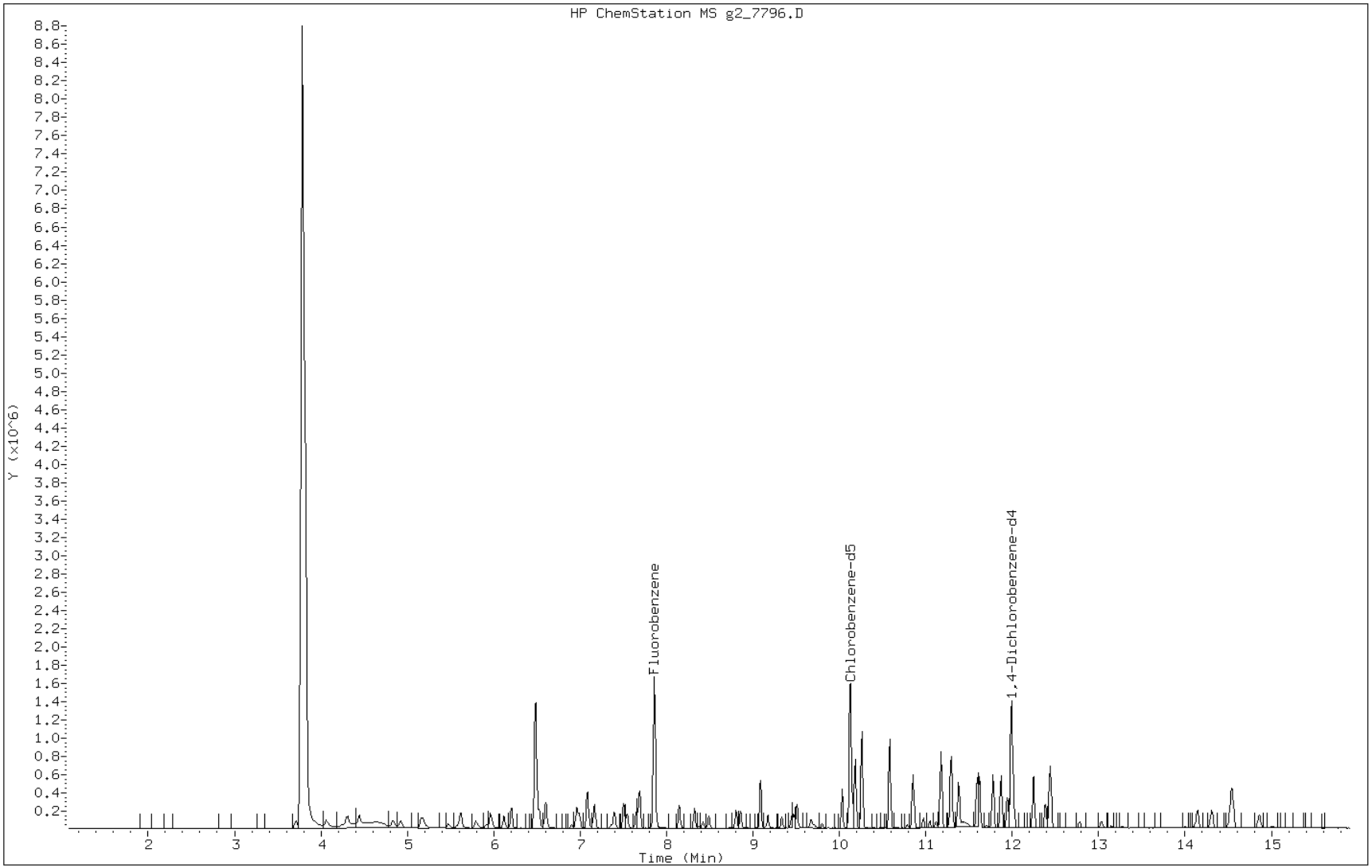
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: g2_7796.D

Date: 28-NOV-2010 11:07

Client ID: Instrument: GCMS2.i

Sample Info: IC,,M002 Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7797.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 11:27
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,M005
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 14:23 Cal File: g2_7806.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	1180542	10.0000	
*	85 Chlorobenzene-d5	119	10.126	10.126	(1.000)	216753	10.0000	
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	310947	10.0000	
M	1 1,2-Dichloroethene (total)	96				351950	10.0000	10.1267
M	2 Xylene (total)	106				865890	15.0000	14.6346
M	3 1,3-Dichloropropene (total)	100				345687	10.0000	9.14682
M	4 Trihalomethanes (total)	100				548885	20.0000	19.0206
	5 dichlorodifluoromethane	85	4.059	4.059	(0.517)	225075	5.00000	5.07530
	7 Chloromethane	50	4.297	4.297	(0.547)	240184	5.00000	5.22924
	8 Vinyl Chloride	62	4.451	4.451	(0.566)	255200	5.00000	5.06534
	10 Bromomethane	94	4.828	4.828	(0.614)	131410	5.00000	5.05426
	11 Chloroethane	64	4.925	4.925	(0.627)	163891	5.00000	5.15274
	13 Trichlorofluoromethane	101	5.163	5.163	(0.657)	283863	5.00000	5.07877
	14 Ethanol	45	5.163	5.163	(0.657)	50053	250.000	246.332
	19 Acrolein	56	5.470	5.470	(0.696)	99189	50.0000	48.5702
	20 Acetone	43	5.582	5.582	(0.710)	83378	20.0000	21.2584
	23 1,1-Dichloroethene	96	5.624	5.624	(0.716)	166897	5.00000	5.14351
	24 Iodomethane	142	5.791	5.791	(0.737)	178881	5.00000	5.28104
	25 Acetonitrile	41	5.791	5.791	(0.737)	83764	50.0000	53.2743
	29 tert-Butyl alcohol	59	5.917	5.917	(0.753)	107183	100.000	114.922
	30 Methylene Chloride	84	5.959	5.959	(0.758)	148533	5.00000	5.28894
	31 Acrylonitrile	53	6.115	6.115	(0.778)	246306	50.0000	52.4478

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.201	6.201	(0.789)	177368	5.00000	5.20162
36 Isopropyl ether	87	6.487	6.487	(0.825)	610621	25.0000	24.7825
37 1,1-Dichloroethane	63	6.522	6.522	(0.830)	348383	5.00000	4.98976
38 Chloroprene	53	6.601	6.601	(0.840)	377179	5.00000	5.16296
41 2-Butanone	43	6.901	6.901	(0.878)	104188	20.0000	18.7947
43 cis-1,2-Dichloroethene	96	6.959	6.959	(0.885)	174582	5.00000	4.92507
42 Propionitrile	54	6.951	6.951	(0.884)	89996	50.0000	49.6700
44 2,2-Dichloropropane	77	6.994	6.994	(0.890)	201844	5.00000	5.32853
45 Methacrylonitrile	41	7.080	7.080	(0.901)	429882	50.0000	49.8034
46 Bromochloromethane	128	7.159	7.159	(0.911)	52400	5.00000	4.97872
47 Chloroform	83	7.166	7.166	(0.912)	280446	5.00000	4.85236
51 1,1,1-Trichloroethane	97	7.395	7.395	(0.941)	251695	5.00000	5.01300
50 Isobutanol	41	7.359	7.359	(0.936)	43461	100.000	106.361
53 1,1-Dichloropropene	75	7.502	7.502	(0.955)	269466	5.00000	4.92241
54 Carbon Tetrachloride	117	7.545	7.545	(0.960)	197742	5.00000	4.90307
56 1,2-Dichloroethane	62	7.652	7.652	(0.974)	161068	5.00000	4.89763
58 Benzene	78	7.688	7.688	(0.978)	707539	5.00000	4.90092
60 n-Butanol	56	7.867	7.867	(1.001)	68438	150.000	141.306
61 Trichloroethene	130	8.146	8.146	(1.036)	150900	5.00000	4.82621
64 1,2-Dichloropropane	63	8.324	8.324	(1.059)	163486	5.00000	4.83867
66 1,4-Dioxane	88	8.374	8.374	(1.065)	26855	200.000	237.074
67 Dibromomethane	93	8.424	8.424	(1.072)	55622	5.00000	4.94228
68 Bromodichloromethane	83	8.489	8.489	(1.080)	166708	5.00000	4.71029
71 cis-1,3-Dichloropropene	75	8.803	8.803	(1.120)	206246	5.00000	4.71387
72 4-Methyl-2-pentanone	43	8.853	8.853	(1.126)	243000	20.0000	19.1223
74 Toluene	91	9.089	9.089	(1.156)	686079	5.00000	4.79065
76 trans-1,3-Dichloropropene	75	9.175	9.175	(1.167)	139441	5.00000	4.43295
77 1,1,2-Trichloroethane	97	9.332	9.332	(1.187)	69418	5.00000	4.69094
78 2-Hexanone	43	9.447	9.447	(0.933)	159315	20.0000	18.7749
79 1,3-Dichloropropane	76	9.468	9.468	(0.935)	140188	5.00000	4.78381
80 Tetrachloroethene	164	9.511	9.511	(0.939)	102981	5.00000	4.79596
81 Dibromochloromethane	129	9.669	9.669	(0.955)	70660	5.00000	4.73402
83 1,2-Dibromoethane	107	9.797	9.797	(0.968)	61281	5.00000	4.68215
84 1-Chlorohexane	91	10.033	10.033	(0.991)	232146	5.00000	4.87229
86 Chlorobenzene	112	10.148	10.148	(1.002)	360499	5.00000	4.77334
87 1,1,1,2-Tetrachloroethane	131	10.176	10.176	(1.005)	108125	5.00000	4.80082
88 Ethylbenzene	106	10.183	10.183	(1.006)	232143	5.00000	4.81158
89 m and p-Xylene	106	10.262	10.262	(1.013)	583015	10.0000	9.70599
91 o-Xylene	106	10.584	10.584	(1.045)	282875	5.00000	4.92859
90 Styrene	104	10.584	10.584	(1.045)	430571	5.00000	4.97130
92 Bromoform	173	10.784	10.784	(1.065)	31071	5.00000	4.72389
93 isopropyl benzene	105	10.848	10.848	(0.905)	741552	5.00000	4.93559
95 Cyclohexanone	55	10.970	10.970	(1.083)	98959	200.000	202.814
97 1,1,2,2-Tetrachloroethane	83	11.048	11.048	(0.921)	81193	5.00000	4.82544
99 1,2,3-Trichloropropane	110	11.120	11.120	(0.927)	19968	5.00000	4.82199
101 Bromobenzene	156	11.177	11.177	(0.932)	123885	5.00000	4.67678
100 n-Propylbenzene	120	11.177	11.177	(0.932)	213309	5.00000	4.76558
103 2-Chlorotoluene	126	11.299	11.299	(0.942)	163709	5.00000	4.82243
102 1,3,5-Trimethylbenzene	105	11.284	11.284	(0.941)	657833	5.00000	4.95778
104 4-Chlorotoluene	126	11.377	11.377	(0.949)	161802	5.00000	4.75760
105 tert-Butylbenzene	119	11.592	11.592	(0.967)	635776	5.00000	4.93628
106 1,2,4-Trimethylbenzene	105	11.621	11.621	(0.969)	661595	5.00000	4.97454
107 sec-Butylbenzene	134	11.778	11.778	(0.982)	165851	5.00000	4.82441
108 4-Isopropyltoluene	119	11.871	11.871	(0.990)	728523	5.00000	5.00081

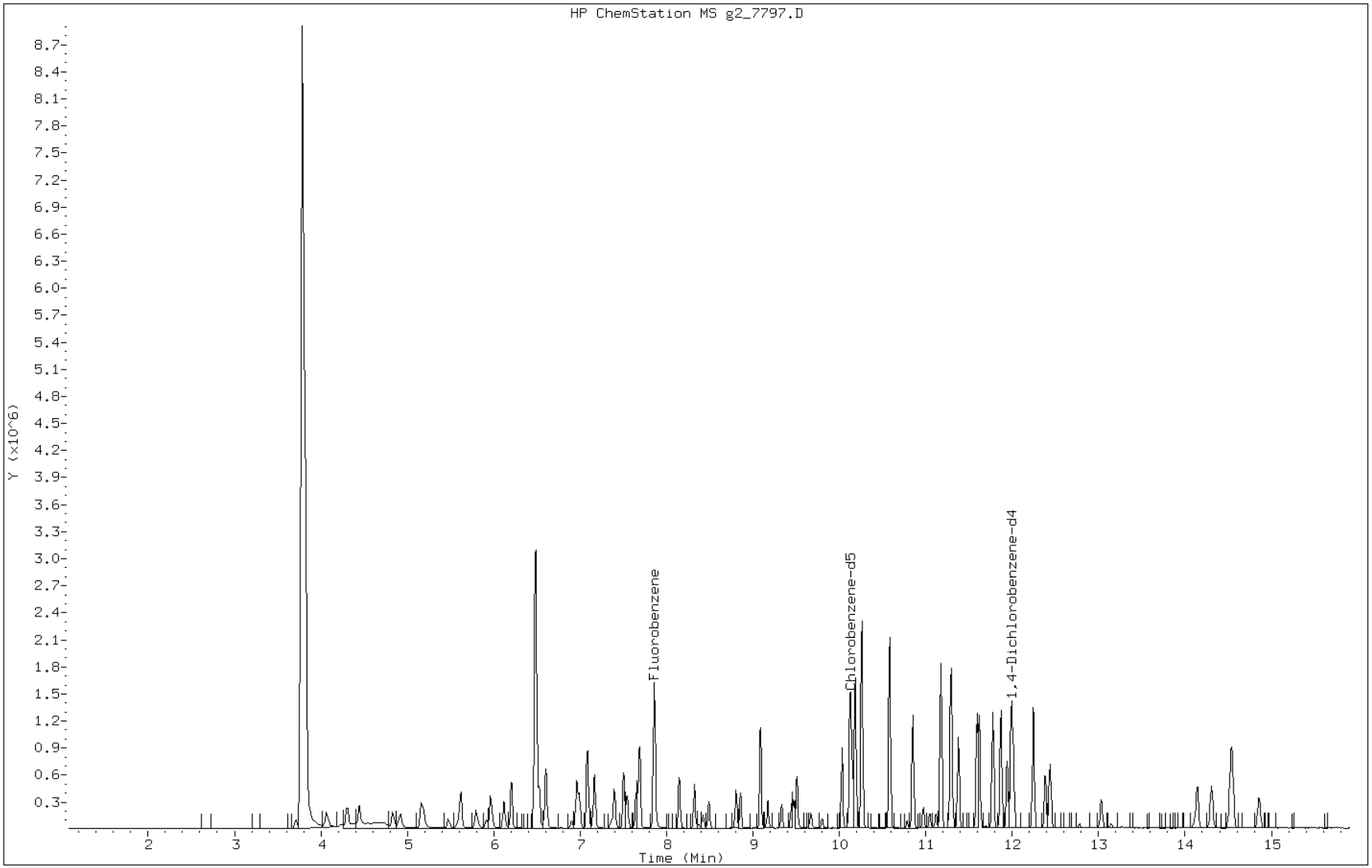
						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	11.942	11.942	(0.996)	281176	5.00000	4.85761
112 1,4-dichlorobenzene	146	12.014	12.014	(1.002)	272710	5.00000	4.84288
113 n-Butylbenzene	91	12.243	12.243	(1.021)	817087	5.00000	5.14645
114 1,2-Dichlorobenzene	146	12.386	12.386	(1.033)	236277	5.00000	4.90948
115 1,2-Dibromo-3-chloropropane	157	13.144	13.144	(1.096)	11151	5.00000	5.17555
116 1,2,4-Trichlorobenzene	180	14.145	14.145	(1.179)	162179	5.00000	5.16056
117 Hexachlorobutadiene	225	14.309	14.309	(1.193)	106430	5.00000	5.12566
118 Naphthalene	128	14.524	14.524	(1.211)	259671	5.00000	5.15259
119 1,2,3-Trichlorobenzene	180	14.860	14.860	(1.239)	126018	5.00000	5.16171

Data File: g2_7797.D

Date: 28-NOV-2010 11:27

Client ID: Instrument: GCMS2.i

Sample Info: IC,,M005 Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7798.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 11:46
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,M010
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 14:43 Cal File: g2_7807.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	1284890	10.0000	
*	85 Chlorobenzene-d5	119	10.119	10.119	(1.000)	243826	10.0000	
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	335121	10.0000	
M	1 1,2-Dichloroethene (total)	96				715562	20.0000	18.9123
M	2 Xylene (total)	106				1891380	30.0000	28.4147
M	3 1,3-Dichloropropene (total)	100				791870	20.0000	19.3508
M	4 Trihalomethanes (total)	100				1174406	40.0000	37.8041
	5 dichlorodifluoromethane	85	4.059	4.059	(0.517)	446855	10.0000	9.25798
	7 Chloromethane	50	4.311	4.311	(0.548)	482525	10.0000	9.65228
	8 Vinyl Chloride	62	4.450	4.450	(0.566)	506115	10.0000	9.22980
	10 Bromomethane	94	4.841	4.841	(0.616)	266911	10.0000	9.43215
	11 Chloroethane	64	4.925	4.925	(0.627)	331108	10.0000	9.56463
	13 Trichlorofluoromethane	101	5.163	5.163	(0.657)	565507	10.0000	9.29615
	14 Ethanol	45	5.163	5.163	(0.657)	86394	500.000	454.788
	19 Acrolein	56	5.470	5.470	(0.696)	215379	100.000	96.9003
	20 Acetone	43	5.568	5.568	(0.708)	166932	40.0000	42.2509
	23 1,1-Dichloroethene	96	5.624	5.624	(0.716)	342038	10.0000	9.68503
	24 Iodomethane	142	5.791	5.791	(0.737)	356341	10.0000	9.66577
	25 Acetonitrile	41	5.791	5.791	(0.737)	163601	100.000	95.6009
	29 tert-Butyl alcohol	59	5.917	5.917	(0.753)	214128	200.000	225.176
	30 Methylene Chloride	84	5.959	5.959	(0.758)	296384	10.0000	9.69652
	31 Acrylonitrile	53	6.115	6.115	(0.778)	500122	100.000	97.8462

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.201	6.201	(0.789)	356123	10.0000	9.59575
36 Isopropyl ether	87	6.487	6.487	(0.825)	1273885	50.0000	47.5029
37 1,1-Dichloroethane	63	6.522	6.522	(0.830)	707953	10.0000	9.31628
38 Chloroprene	53	6.601	6.601	(0.840)	768227	10.0000	9.66176
41 2-Butanone	43	6.901	6.901	(0.878)	229711	40.0000	38.0727
43 cis-1,2-Dichloroethene	96	6.958	6.958	(0.885)	359439	10.0000	9.31652
42 Propionitrile	54	6.951	6.951	(0.884)	180616	100.000	91.5889
44 2,2-Dichloropropane	77	6.994	6.994	(0.890)	398110	10.0000	9.65630
45 Methacrylonitrile	41	7.080	7.080	(0.901)	927011	100.000	98.6757
46 Bromochloromethane	128	7.159	7.159	(0.911)	109521	10.0000	9.56091
47 Chloroform	83	7.166	7.166	(0.912)	580464	10.0000	9.22772
51 1,1,1-Trichloroethane	97	7.395	7.395	(0.941)	501551	10.0000	9.17812
50 Isobutanol	41	7.359	7.359	(0.936)	84943	200.000	190.997
53 1,1-Dichloropropene	75	7.502	7.502	(0.955)	569927	10.0000	9.56552
54 Carbon Tetrachloride	117	7.545	7.545	(0.960)	407357	10.0000	9.28026
56 1,2-Dichloroethane	62	7.652	7.652	(0.974)	340878	10.0000	9.52339
58 Benzene	78	7.688	7.688	(0.978)	1496551	10.0000	9.52433
60 n-Butanol	56	7.867	7.867	(1.001)	136793	300.000	305.723
61 Trichloroethene	130	8.145	8.145	(1.036)	328072	10.0000	9.64054
64 1,2-Dichloropropane	63	8.324	8.324	(1.059)	347619	10.0000	9.45289
66 1,4-Dioxane	88	8.367	8.367	(1.065)	59586	500.000	483.301
67 Dibromomethane	93	8.424	8.424	(1.072)	116775	10.0000	9.53337
68 Bromodichloromethane	83	8.489	8.489	(1.080)	360976	10.0000	9.37098
71 cis-1,3-Dichloropropene	75	8.803	8.803	(1.120)	460314	10.0000	9.66634
72 4-Methyl-2-pentanone	43	8.853	8.853	(1.126)	532941	40.0000	38.5327
74 Toluene	91	9.089	9.089	(1.156)	1491019	10.0000	9.56575
76 trans-1,3-Dichloropropene	75	9.175	9.175	(1.167)	331556	10.0000	9.68444
77 1,1,2-Trichloroethane	97	9.332	9.332	(1.187)	148804	10.0000	9.23885
78 2-Hexanone	43	9.447	9.447	(0.934)	357015	40.0000	37.4017
79 1,3-Dichloropropane	76	9.468	9.468	(0.936)	313053	10.0000	9.49655
80 Tetrachloroethene	164	9.511	9.511	(0.940)	227463	10.0000	9.41704
81 Dibromochloromethane	129	9.668	9.668	(0.955)	162455	10.0000	9.67553
83 1,2-Dibromoethane	107	9.797	9.797	(0.968)	139433	10.0000	9.47044
84 1-Chlorohexane	91	10.033	10.033	(0.992)	509835	10.0000	9.51232
86 Chlorobenzene	112	10.147	10.147	(1.003)	797202	10.0000	9.38364
87 1,1,1,2-Tetrachloroethane	131	10.176	10.176	(1.006)	237855	10.0000	9.38830
88 Ethylbenzene	106	10.183	10.183	(1.006)	512178	10.0000	9.43709
89 m and p-Xylene	106	10.262	10.262	(1.014)	1277174	20.0000	18.9015
91 o-Xylene	106	10.584	10.584	(1.046)	614206	10.0000	9.51321
90 Styrene	104	10.584	10.584	(1.046)	940039	10.0000	9.64842
92 Bromoform	173	10.784	10.784	(1.066)	70511	10.0000	9.52986
93 isopropyl benzene	105	10.848	10.848	(0.905)	1594665	10.0000	9.84808
95 Cyclohexanone	55	10.970	10.970	(1.084)	212260	400.000	386.719
97 1,1,2,2-Tetrachloroethane	83	11.048	11.048	(0.921)	172927	10.0000	9.53598
99 1,2,3-Trichloropropane	110	11.120	11.120	(0.927)	42563	10.0000	9.53694
101 Bromobenzene	156	11.177	11.177	(0.932)	274047	10.0000	9.59927
100 n-Propylbenzene	120	11.177	11.177	(0.932)	460934	10.0000	9.55498
103 2-Chlorotoluene	126	11.299	11.299	(0.942)	351127	10.0000	9.59714
102 1,3,5-Trimethylbenzene	105	11.284	11.284	(0.941)	1402958	10.0000	9.81073
104 4-Chlorotoluene	126	11.377	11.377	(0.949)	351449	10.0000	9.58852
105 tert-Butylbenzene	119	11.592	11.592	(0.967)	1367667	10.0000	9.85282
106 1,2,4-Trimethylbenzene	105	11.620	11.620	(0.969)	1399240	10.0000	9.76197
107 sec-Butylbenzene	134	11.778	11.778	(0.982)	357727	10.0000	9.65523
108 4-Isopropyltoluene	119	11.871	11.871	(0.990)	1539418	10.0000	9.80480

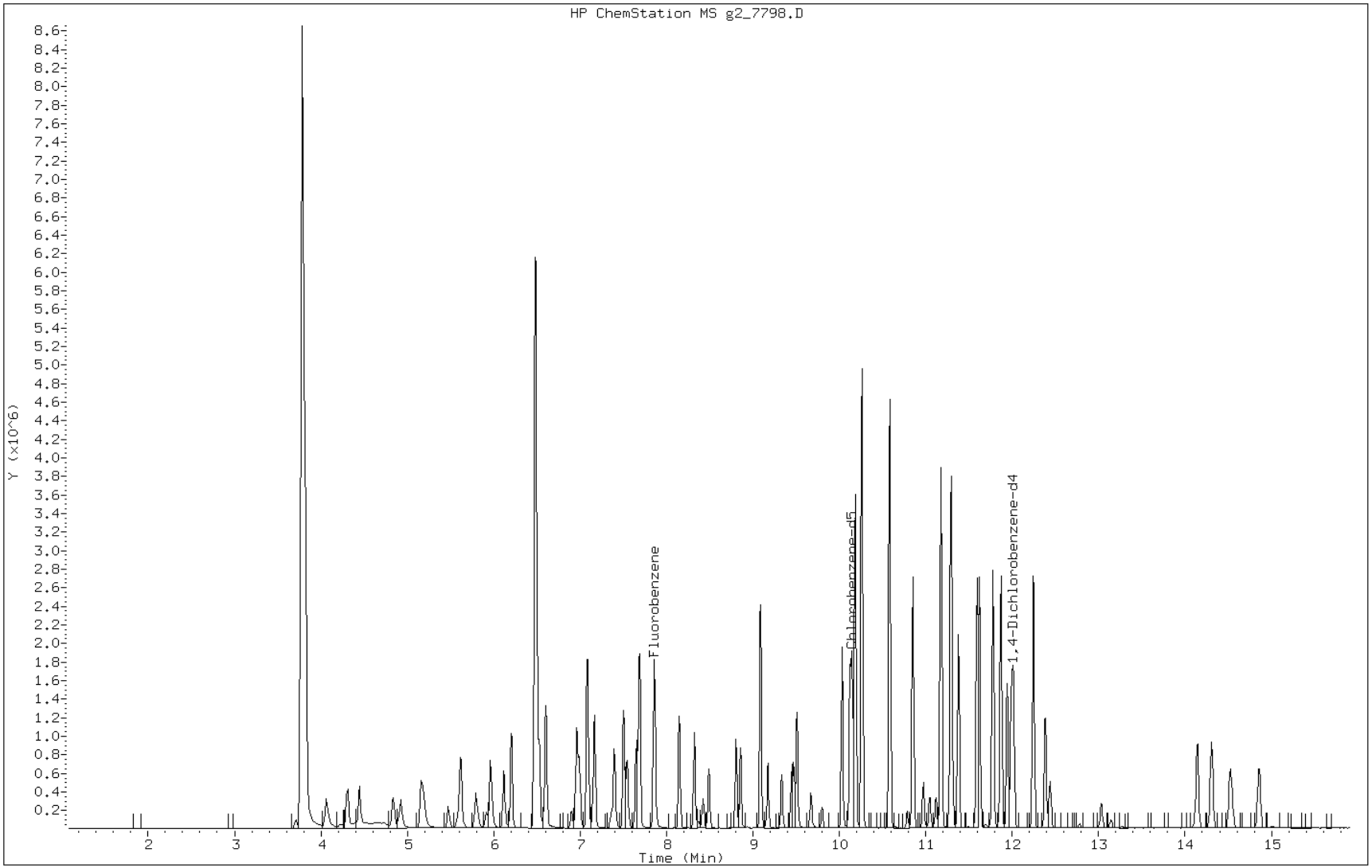
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109	1,3-Dichlorobenzene	146	11.942	11.942	(0.996)	594389	10.0000	9.52796
112	1,4-dichlorobenzene	146	12.014	12.014	(1.002)	584064	10.0000	9.62384
113	n-Butylbenzene	91	12.243	12.243	(1.021)	1676489	10.0000	9.79772
114	1,2-Dichlorobenzene	146	12.386	12.386	(1.033)	490039	10.0000	9.44778
115	1,2-Dibromo-3-chloropropane	157	13.143	13.143	(1.096)	21654	10.0000	9.32536
116	1,2,4-Trichlorobenzene	180	14.144	14.144	(1.179)	324913	10.0000	9.59298
117	Hexachlorobutadiene	225	14.309	14.309	(1.193)	217824	10.0000	9.73365
118	Naphthalene	128	14.523	14.523	(1.211)	518166	10.0000	9.54016
119	1,2,3-Trichlorobenzene	180	14.859	14.859	(1.239)	251773	10.0000	9.56875

Data File: g2_7798.D

Date: 28-NOV-2010 11:46

Client ID: Instrument: GCMS2.i

Sample Info: IC,,M010 Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7799.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 12:06
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,M030
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 15:02 Cal File: g2_7808.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	1337985	10.0000	
*	85 Chlorobenzene-d5	119	10.126	10.126	(1.000)	257522	10.0000	
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	361904	10.0000	
M	1 1,2-Dichloroethene (total)	96				2153826	60.0000	54.6626
M	2 Xylene (total)	106				6027647	90.0000	85.7331
M	3 1,3-Dichloropropene (total)	100				2592565	60.0000	60.9248
M	4 Trihalomethanes (total)	100				3713321	120.000	118.127
	5 dichlorodifluoromethane	85	4.059	4.059	(0.517)	1355630	30.0000	26.9715
	7 Chloromethane	50	4.311	4.311	(0.548)	1463097	30.0000	28.1059
	8 Vinyl Chloride	62	4.450	4.450	(0.566)	1517666	30.0000	26.5787
	10 Bromomethane	94	4.841	4.841	(0.616)	840830	30.0000	28.5343
	11 Chloroethane	64	4.925	4.925	(0.627)	1006050	30.0000	27.9082
	13 Trichlorofluoromethane	101	5.163	5.163	(0.657)	1741802	30.0000	27.4966
	14 Ethanol	45	5.163	5.163	(0.657)	264933	1500.00	1552.20
	19 Acrolein	56	5.470	5.470	(0.696)	678910	300.000	293.325
	20 Acetone	43	5.568	5.568	(0.708)	482101	120.000	123.824
	23 1,1-Dichloroethene	96	5.623	5.623	(0.716)	1029338	30.0000	27.9898
	24 Iodomethane	142	5.791	5.791	(0.737)	1082545	30.0000	28.1988
	25 Acetonitrile	41	5.791	5.791	(0.737)	493366	300.000	276.860
	29 tert-Butyl alcohol	59	5.917	5.917	(0.753)	571226	600.000	603.465
	30 Methylene Chloride	84	5.959	5.959	(0.758)	883519	30.0000	27.7582
	31 Acrylonitrile	53	6.115	6.115	(0.778)	1521266	300.000	285.817

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.200	6.200	(0.789)	1067904	30.0000	27.6328
36 Isopropyl ether	87	6.486	6.486	(0.825)	3839790	150.000	137.503
37 1,1-Dichloroethane	63	6.522	6.522	(0.830)	2107400	30.0000	26.6318
38 Chloroprene	53	6.601	6.601	(0.840)	2283561	30.0000	27.5800
41 2-Butanone	43	6.901	6.901	(0.878)	722647	120.000	115.020
43 cis-1,2-Dichloroethene	96	6.958	6.958	(0.885)	1085922	30.0000	27.0297
42 Propionitrile	54	6.951	6.951	(0.884)	559084	300.000	272.257
44 2,2-Dichloropropane	77	6.987	6.987	(0.889)	1147291	30.0000	26.7236
45 Methacrylonitrile	41	7.080	7.080	(0.901)	2785038	300.000	284.689
46 Bromochloromethane	128	7.159	7.159	(0.911)	346373	30.0000	29.0376
47 Chloroform	83	7.166	7.166	(0.912)	1766326	30.0000	26.9653
51 1,1,1-Trichloroethane	97	7.394	7.394	(0.941)	1515747	30.0000	26.6367
50 Isobutanol	41	7.359	7.359	(0.936)	266826	600.000	576.158
53 1,1-Dichloropropene	75	7.502	7.502	(0.955)	1704521	30.0000	27.4730
54 Carbon Tetrachloride	117	7.545	7.545	(0.960)	1282517	30.0000	28.0584
56 1,2-Dichloroethane	62	7.652	7.652	(0.974)	1047973	30.0000	28.1162
58 Benzene	78	7.688	7.688	(0.978)	4552221	30.0000	27.8215
60 n-Butanol	56	7.866	7.866	(1.001)	375825	900.000	897.141
61 Trichloroethene	130	8.145	8.145	(1.036)	1034128	30.0000	29.1824
64 1,2-Dichloropropane	63	8.324	8.324	(1.059)	1090959	30.0000	28.4895
66 1,4-Dioxane	88	8.374	8.374	(1.066)	184818	1500.00	1439.57
67 Dibromomethane	93	8.417	8.417	(1.071)	364489	30.0000	28.5756
68 Bromodichloromethane	83	8.488	8.488	(1.080)	1153440	30.0000	28.7552
71 cis-1,3-Dichloropropene	75	8.803	8.803	(1.120)	1496295	30.0000	30.1745
72 4-Methyl-2-pentanone	43	8.853	8.853	(1.126)	1677060	120.000	116.443
74 Toluene	91	9.089	9.089	(1.156)	4593559	30.0000	28.3009
76 trans-1,3-Dichloropropene	75	9.175	9.175	(1.167)	1096270	30.0000	30.7503
77 1,1,2-Trichloroethane	97	9.332	9.332	(1.187)	493425	30.0000	29.4198
78 2-Hexanone	43	9.447	9.447	(0.933)	1150280	120.000	114.097
79 1,3-Dichloropropane	76	9.468	9.468	(0.935)	1030802	30.0000	29.6066
80 Tetrachloroethene	164	9.511	9.511	(0.939)	751661	30.0000	29.4640
81 Dibromochloromethane	129	9.668	9.668	(0.955)	546864	30.0000	30.8380
83 1,2-Dibromoethane	107	9.797	9.797	(0.968)	456188	30.0000	29.3369
84 1-Chlorohexane	91	10.033	10.033	(0.991)	1632994	30.0000	28.8474
86 Chlorobenzene	112	10.147	10.147	(1.002)	2553567	30.0000	28.4588
87 1,1,1,2-Tetrachloroethane	131	10.176	10.176	(1.005)	784136	30.0000	29.3043
88 Ethylbenzene	106	10.183	10.183	(1.006)	1653177	30.0000	28.8405
89 m and p-Xylene	106	10.262	10.262	(1.013)	4079014	60.0000	57.1566
91 o-Xylene	106	10.583	10.583	(1.045)	1948633	30.0000	28.5765
90 Styrene	104	10.583	10.583	(1.045)	3023069	30.0000	29.3781
92 Bromoform	173	10.784	10.784	(1.065)	246691	30.0000	31.5681
93 isopropyl benzene	105	10.848	10.848	(0.905)	4917002	30.0000	28.1184
95 Cyclohexanone	55	10.970	10.970	(1.083)	669830	1200.00	1155.47
97 1,1,2,2-Tetrachloroethane	83	11.048	11.048	(0.921)	537997	30.0000	27.4720
99 1,2,3-Trichloropropane	110	11.120	11.120	(0.927)	135513	30.0000	28.1168
101 Bromobenzene	156	11.177	11.177	(0.932)	909256	30.0000	29.4922
100 n-Propylbenzene	120	11.177	11.177	(0.932)	1493726	30.0000	28.6728
103 2-Chlorotoluene	126	11.299	11.299	(0.942)	1142500	30.0000	28.9163
102 1,3,5-Trimethylbenzene	105	11.284	11.284	(0.941)	4375567	30.0000	28.3334
104 4-Chlorotoluene	126	11.377	11.377	(0.949)	1123077	30.0000	28.3731
105 tert-Butylbenzene	119	11.592	11.592	(0.967)	4312499	30.0000	28.7685
106 1,2,4-Trimethylbenzene	105	11.620	11.620	(0.969)	4386753	30.0000	28.3398
107 sec-Butylbenzene	134	11.778	11.778	(0.982)	1166617	30.0000	29.1573
108 4-Isopropyltoluene	119	11.871	11.871	(0.990)	4831990	30.0000	28.4981

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109	1,3-Dichlorobenzene	146	11.942	11.942	(0.996)	1916300	30.0000	28.4447
112	1,4-dichlorobenzene	146	12.014	12.014	(1.002)	1865233	30.0000	28.4596
113	n-Butylbenzene	91	12.242	12.242	(1.021)	5128596	30.0000	27.7544
114	1,2-Dichlorobenzene	146	12.385	12.385	(1.033)	1573748	30.0000	28.0959
115	1,2-Dibromo-3-chloropropane	157	13.143	13.143	(1.096)	74285	30.0000	29.6235
116	1,2,4-Trichlorobenzene	180	14.144	14.144	(1.179)	1063230	30.0000	29.0685
117	Hexachlorobutadiene	225	14.309	14.309	(1.193)	704796	30.0000	29.1636
118	Naphthalene	128	14.523	14.523	(1.211)	1705894	30.0000	29.0835
119	1,2,3-Trichlorobenzene	180	14.859	14.859	(1.239)	834365	30.0000	29.3637

Data File: g2_7799.D

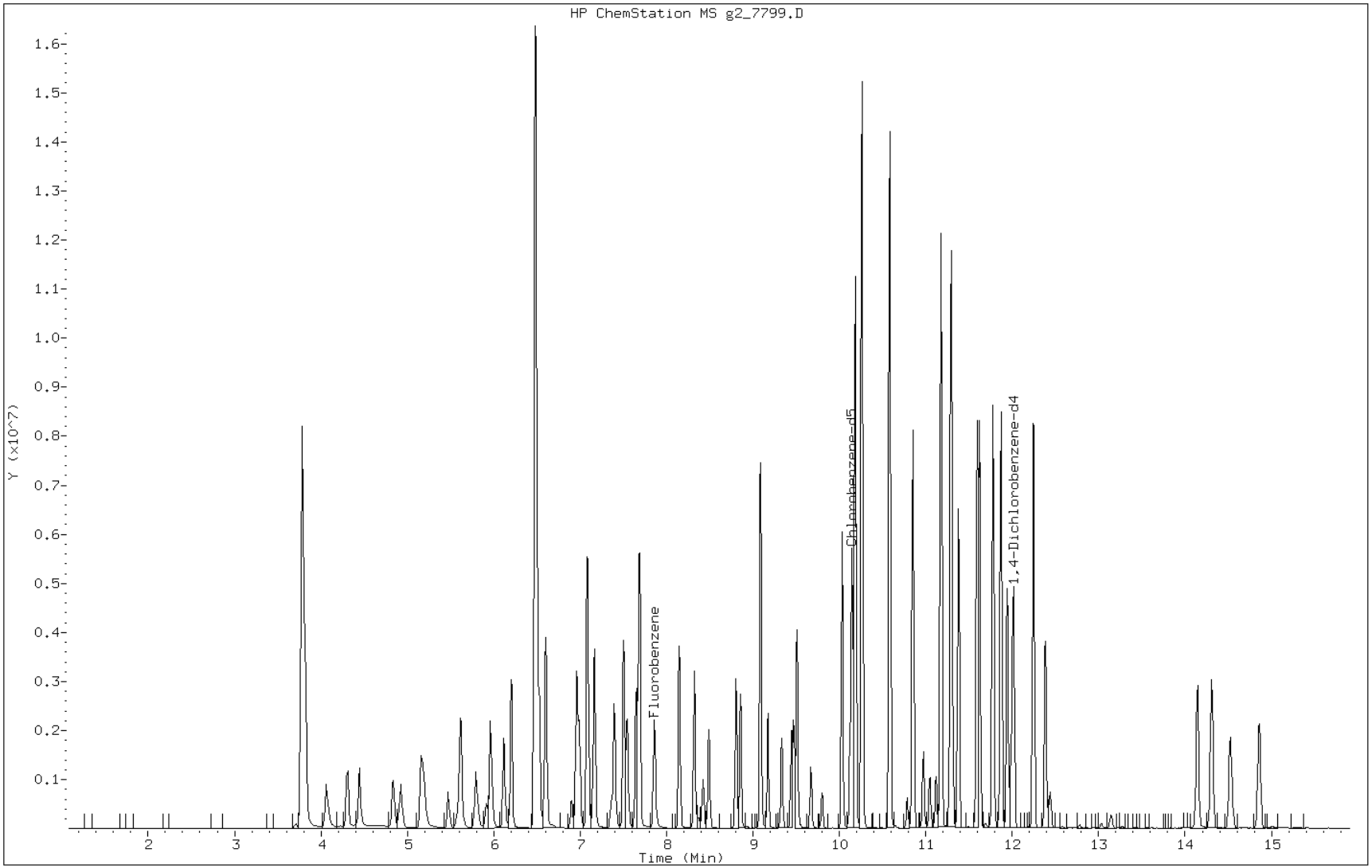
Date: 28-NOV-2010 12:06

Client ID:

Instrument: GCMS2.i

Sample Info: IC,,M030

Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7800.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 12:25
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,M060
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 15:22 Cal File: g2_7809.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	7.859	7.859	(1.000)	1322121	10.0000	
* 85	Chlorobenzene-d5	119	10.126	10.126	(1.000)	250538	10.0000	
* 110	1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	371994	10.0000	(Q)
M 1	1,2-Dichloroethene (total)	96				4298129	120.000	110.392
M 2	Xylene (total)	106				11335617	180.000	165.769
M 3	1,3-Dichloropropene (total)	100				4868701	120.000	115.744
M 4	Trihalomethanes (total)	100				7208131	240.000	236.105
5	dichlorodifluoromethane	85	4.059	4.059	(0.517)	2657884	60.0000	53.5156
7	Chloromethane	50	4.297	4.297	(0.547)	2816825	60.0000	54.7601
8	Vinyl Chloride	62	4.450	4.450	(0.566)	2906668	60.0000	51.5149
10	Bromomethane	94	4.827	4.827	(0.614)	1589279	60.0000	54.5807
11	Chloroethane	64	4.925	4.925	(0.627)	1881476	60.0000	52.8192
13	Trichlorofluoromethane	101	5.163	5.163	(0.657)	3418207	60.0000	54.6082
14	Ethanol	45	5.163	5.163	(0.657)	487118	3000.00	2982.42
19	Acrolein	56	5.470	5.470	(0.696)	1249654	600.000	546.394
20	Acetone	43	5.568	5.568	(0.708)	880808	240.000	232.124
23	1,1-Dichloroethene	96	5.609	5.609	(0.714)	2037247	60.0000	56.0615
24	Iodomethane	142	5.791	5.791	(0.737)	2187511	60.0000	57.6655
25	Acetonitrile	41	5.791	5.791	(0.737)	924179	600.000	524.840
29	tert-Butyl alcohol	59	5.917	5.917	(0.753)	1060420	1200.00	1148.68
30	Methylene Chloride	84	5.959	5.959	(0.758)	1726207	60.0000	54.8844
31	Acrylonitrile	53	6.115	6.115	(0.778)	2873869	600.000	546.424

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.200	6.200	(0.789)	2131262	60.0000	55.8098
36 Isopropyl ether	87	6.479	6.479	(0.824)	7016170	300.000	254.264(Q)
37 1,1-Dichloroethane	63	6.522	6.522	(0.830)	4076258	60.0000	52.1308
38 Chloroprene	53	6.601	6.601	(0.840)	4405749	60.0000	53.8495
41 2-Butanone	43	6.901	6.901	(0.878)	1323867	240.000	213.241
43 cis-1,2-Dichloroethene	96	6.958	6.958	(0.885)	2166867	60.0000	54.5828
42 Propionitrile	54	6.944	6.944	(0.884)	1058908	600.000	521.843
44 2,2-Dichloropropane	77	6.987	6.987	(0.889)	2250417	60.0000	53.0475
45 Methacrylonitrile	41	7.080	7.080	(0.901)	5038100	600.000	521.179
46 Bromochloromethane	128	7.159	7.159	(0.911)	694479	60.0000	58.9190
47 Chloroform	83	7.166	7.166	(0.912)	3420792	60.0000	52.8495
51 1,1,1-Trichloroethane	97	7.395	7.395	(0.941)	2991307	60.0000	53.1979
50 Isobutanol	41	7.359	7.359	(0.936)	513840	1200.00	1122.85
53 1,1-Dichloropropene	75	7.502	7.502	(0.955)	3325969	60.0000	54.2503
54 Carbon Tetrachloride	117	7.545	7.545	(0.960)	2575383	60.0000	57.0193
56 1,2-Dichloroethane	62	7.652	7.652	(0.974)	1981186	60.0000	53.7913
58 Benzene	78	7.688	7.688	(0.978)	8608982	60.0000	53.2463
60 n-Butanol	56	7.866	7.866	(1.001)	723290	1800.00	1799.66(A)
61 Trichloroethene	130	8.145	8.145	(1.036)	2011741	60.0000	57.4512
64 1,2-Dichloropropane	63	8.324	8.324	(1.059)	2053828	60.0000	54.2775
66 1,4-Dioxane	88	8.374	8.374	(1.066)	349194	3000.00	2752.55
67 Dibromomethane	93	8.417	8.417	(1.071)	707961	60.0000	56.1695
68 Bromodichloromethane	83	8.488	8.488	(1.080)	2222675	60.0000	56.0760
71 cis-1,3-Dichloropropene	75	8.803	8.803	(1.120)	2815277	60.0000	57.4545
72 4-Methyl-2-pentanone	43	8.853	8.853	(1.126)	3012805	240.000	211.698
74 Toluene	91	9.089	9.089	(1.156)	8466496	60.0000	52.7879
76 trans-1,3-Dichloropropene	75	9.175	9.175	(1.167)	2053424	60.0000	58.2896
77 1,1,2-Trichloroethane	97	9.332	9.332	(1.187)	928740	60.0000	56.0392
78 2-Hexanone	43	9.447	9.447	(0.933)	2012185	240.000	205.154
79 1,3-Dichloropropane	76	9.468	9.468	(0.935)	1898150	60.0000	56.0383
80 Tetrachloroethene	164	9.511	9.511	(0.939)	1504215	60.0000	60.6066(A)
81 Dibromochloromethane	129	9.668	9.668	(0.955)	1068712	60.0000	61.9454(A)
83 1,2-Dibromoethane	107	9.797	9.797	(0.968)	865223	60.0000	57.1925
84 1-Chlorohexane	91	10.033	10.033	(0.991)	3067172	60.0000	55.6931
86 Chlorobenzene	112	10.147	10.147	(1.002)	4906256	60.0000	56.2030
87 1,1,1,2-Tetrachloroethane	131	10.176	10.176	(1.005)	1574654	60.0000	60.4876(A)
88 Ethylbenzene	106	10.183	10.183	(1.006)	3219506	60.0000	57.7315
89 m and p-Xylene	106	10.262	10.262	(1.013)	7603870	120.000	109.518
91 o-Xylene	106	10.584	10.584	(1.045)	3731747	60.0000	56.2512
90 Styrene	104	10.584	10.584	(1.045)	5641480	60.0000	56.3521
92 Bromoform	173	10.784	10.784	(1.065)	495952	60.0000	65.2342(A)
93 isopropyl benzene	105	10.848	10.848	(0.905)	9392207	60.0000	52.2535
95 Cyclohexanone	55	10.970	10.970	(1.083)	1249924	2400.00	2216.24
97 1,1,2,2-Tetrachloroethane	83	11.048	11.048	(0.921)	1071987	60.0000	53.2547
99 1,2,3-Trichloropropane	110	11.120	11.120	(0.927)	263881	60.0000	53.2660
101 Bromobenzene	156	11.177	11.177	(0.932)	1819394	60.0000	57.4124
100 n-Propylbenzene	120	11.177	11.177	(0.932)	2972842	60.0000	55.5173
103 2-Chlorotoluene	126	11.299	11.299	(0.942)	2301321	60.0000	56.6658
102 1,3,5-Trimethylbenzene	105	11.284	11.284	(0.941)	8465302	60.0000	53.3292
104 4-Chlorotoluene	126	11.377	11.377	(0.949)	2253098	60.0000	55.3777
105 tert-Butylbenzene	119	11.592	11.592	(0.967)	8605148	60.0000	55.8476
106 1,2,4-Trimethylbenzene	105	11.620	11.620	(0.969)	8537582	60.0000	53.6594
107 sec-Butylbenzene	134	11.778	11.778	(0.982)	2431830	60.0000	59.1303
108 4-Isopropyltoluene	119	11.871	11.871	(0.990)	9498898	60.0000	54.5031

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	11.942	11.942	(0.996)	3910322	60.0000	56.4686
112 1,4-dichlorobenzene	146	12.014	12.014	(1.002)	3799721	60.0000	56.4034
113 n-Butylbenzene	91	12.242	12.242	(1.021)	9912335	60.0000	52.1875
114 1,2-Dichlorobenzene	146	12.385	12.385	(1.033)	3238948	60.0000	56.2560
115 1,2-Dibromo-3-chloropropane	157	13.143	13.143	(1.096)	155294	60.0000	60.2487(A)
116 1,2,4-Trichlorobenzene	180	14.144	14.144	(1.179)	2168495	60.0000	57.6781
117 Hexachlorobutadiene	225	14.309	14.309	(1.193)	1470216	60.0000	59.1857
118 Naphthalene	128	14.523	14.523	(1.211)	3370571	60.0000	55.9057
119 1,2,3-Trichlorobenzene	180	14.859	14.859	(1.239)	1679817	60.0000	57.5140

QC Flag Legend

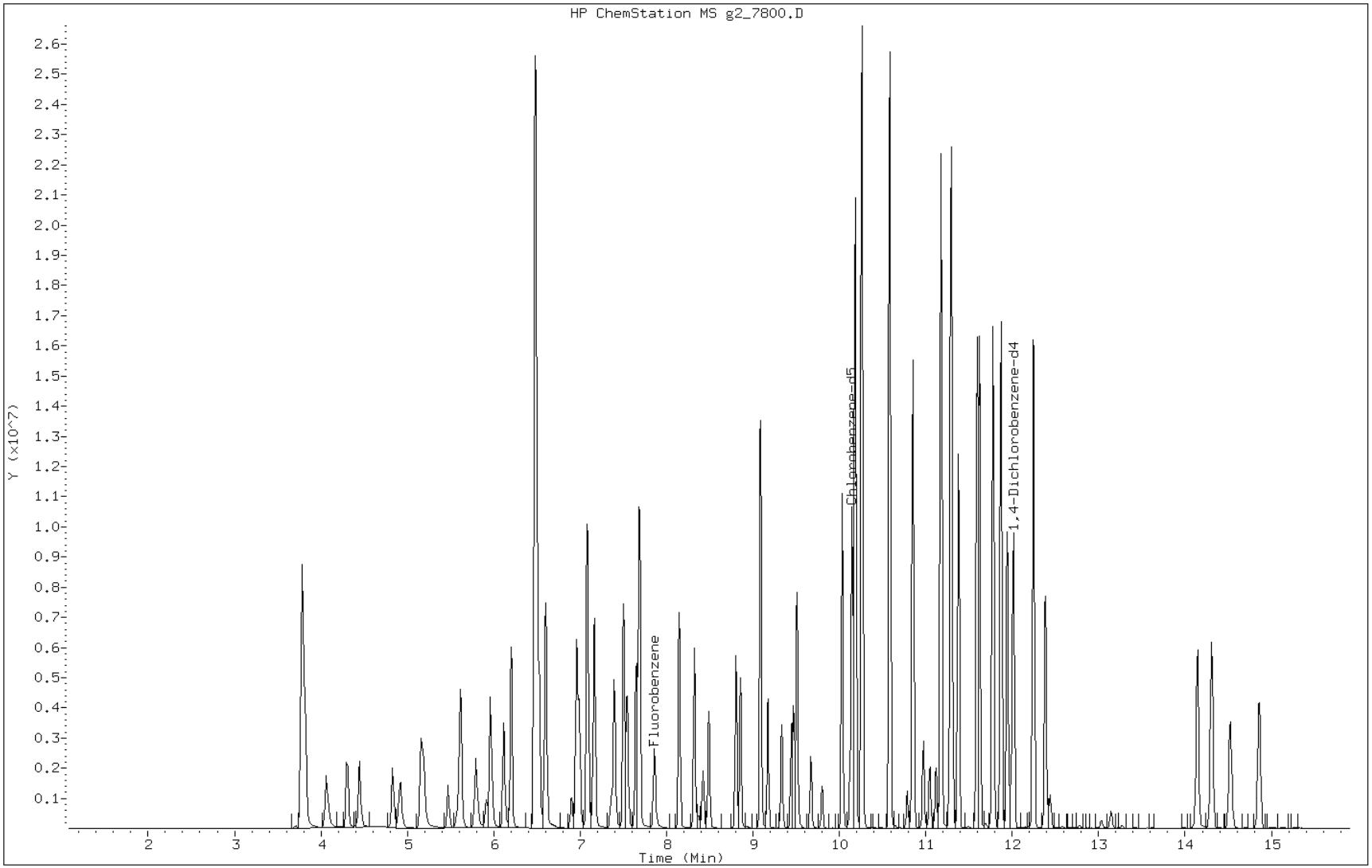
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: g2_7800.D

Date: 28-NOV-2010 12:25

Client ID: Instrument: GCMS2.i

Sample Info: IC,,M060 Operator: ILCZYSZD



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 13:43 Calibration End Date: 11/28/2010 15:42 Calibration ID: 3822

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-42958/9	g2_7804.D
Level 2	IC 280-42958/10	g2_7805.D
Level 3	IC 280-42958/11	g2_7806.D
Level 4	IC 280-42958/12	g2_7807.D
Level 5	ICIS 280-42958/13	g2_7808.D
Level 6	IC 280-42958/14	g2_7809.D
Level 7	IC 280-42958/15	g2_7810.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.3519	+++++ 0.4285	0.3904	0.3258	0.3779	Ave		0.3749				10.4		15.0			
2,2-Dichloro-1,1,1-trifluoroethane	+++++ 0.5806	0.6341 0.6872	0.6354	0.5514	0.6304	Ave		0.6198				7.7		15.0			
Ethylene oxide	+++++ 0.0083	0.0114 +++++	0.0105	0.0090	0.0101	Ave		0.0099				12.5		15.0			
Dichlorofluoromethane	+++++ 0.7641	0.8373 0.9331	0.8441	0.7146	0.8497	Ave		0.8238				9.2		15.0			
Carbon disulfide	+++++ 1.2273	1.6598 1.5307	1.7755	1.4676	1.5556	Ave		1.5361				12.1		15.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.2735 0.3206	0.3512 0.3876	0.3558	0.3106	0.3506	Ave		0.3357				11.1		15.0			
Ethyl ether	+++++ 0.1699	0.1907 0.1661	0.1764	0.1643	0.1651	Ave		0.1720				5.9		15.0			
Vinyl acetate	+++++ 0.1865	+++++ 0.1617	0.1999	0.1774	0.1550	Ave		0.1761				10.3		15.0			
1,1,2-Trichlorotrifluoroethane	+++++ 0.2704	0.2805 0.3461	0.2910	0.2503	0.2958	Ave		0.2890				11.2		15.0			
2-Propanol	+++++ 0.0075	0.0096 0.0087	0.0096	0.0072	0.0079	Ave		0.0084				12.4		15.0			
Methyl acetate	+++++ 0.0879	0.1013 0.0881	0.0935	0.0835	0.0861	Ave		0.0901				7.1		15.0			
Allyl chloride	+++++ 0.6858	0.7517 0.7409	0.7547	0.6627	0.7282	Ave		0.7207				5.3		15.0			
Methyl tert-butyl ether	+++++ 0.5875	0.6158 0.6858	0.6046	0.5223	0.5990	Ave		0.6025				8.7		15.0			
Tetrahydrofuran	+++++ 0.0307	+++++ 0.0301	0.0386	0.0340	0.0307	Ave		0.0328				10.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 13:43 Calibration End Date: 11/28/2010 15:42 Calibration ID: 3822

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexane	3.3115 2.9322	3.2165 2.9455	3.0461	2.9322	2.8611	Ave		3.0350				5.5		15.0			
Tert-butyl ethyl ether	+++++ 0.7809	0.7960 0.8233	0.7753	0.7187	0.8080	Ave		0.7837				4.6		15.0			
Ethyl acetate	+++++ 0.0764	0.0939 0.0645	0.0846	0.0795	0.0673	Ave		0.0777				14.1		15.0			
Cyclohexane	0.7892 0.8278	0.9697 0.9910	0.9424	0.8114	0.9347	Ave		0.8952				9.3		15.0			
Tert-amyl methyl ether	0.4754 0.5909	0.5605 0.6455	0.5432	0.5127	0.5843	Ave		0.5589				9.9		15.0			
2-Pentanone	+++++ 0.0556	0.0679 0.0470	0.0587	0.0558	0.0522	Ave		0.0562				12.4		15.0			
Methyl methacrylate	+++++ 0.0222	0.0214 0.0192	0.0209	0.0217	0.0200	Lin	-0.127	0.0196							0.9941		
Methylcyclohexane	0.6986 0.6480	0.7843 0.7707	0.7481	0.6477	0.7231	Ave		0.7172				7.7		15.0			
2-Nitropropane	+++++ 0.1275	+++++ 0.1117	0.1467	0.1164	0.1015	Ave		0.1208				14.3		15.0			
2-Chloroethyl vinyl ether	+++++ 0.2720	0.1921 0.2428	0.1695	0.1940	0.1880	Lin	0.0744	0.2522							0.9942		
Ethyl methacrylate	+++++ 0.8829	0.9237 0.8051	0.8634	0.8263	0.7936	Lin1	-0.018	0.8262							0.9978		0.9900
Tetrahydrothiophene	+++++ 0.5160	0.5546 0.5102	0.4870	0.4762	0.4618	Ave		0.5010				6.6		15.0			
cis-1,4-Dichloro-2-butene	+++++ 0.1513	+++++ 0.1348	0.1237	0.1291	0.1236	Ave		0.1325				8.7		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1362	0.1209 0.1290	0.1116	0.1084	0.1063	Lin1	0.0284	0.1301							0.9950		0.9900
1,2,3-Trimethylbenzene	4.2396 3.8531	4.3137 3.8770	4.0691	3.9243	3.7649	Ave		4.0060				5.2		15.0			
Dibromofluoromethane (Surr)	+++++ 0.2208	0.2467 0.2267	0.2201	0.2131	0.2142	Ave		0.2236				5.5		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2070	0.2457 0.1913	0.2150	0.2121	0.1980	Ave		0.2115				8.9		15.0			
Toluene-d8 (Surr)	+++++ 4.7256	5.4921 4.6331	4.7593	4.8850	4.5949	Ave		4.8483				6.8		15.0			
4-Bromofluorobenzene (Surr)	+++++ 1.7743	2.1517 1.8990	1.9060	1.8162	1.8500	Ave		1.8995				7.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 13:43 Calibration End Date: 11/28/2010 15:42 Calibration ID: 3822

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-42958/9	g2_7804.D
Level 2	IC 280-42958/10	g2_7805.D
Level 3	IC 280-42958/11	g2_7806.D
Level 4	IC 280-42958/12	g2_7807.D
Level 5	ICIS 280-42958/13	g2_7808.D
Level 6	IC 280-42958/14	g2_7809.D
Level 7	IC 280-42958/15	g2_7810.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	FB	Ave	+++++ 904543	+++++ 1754147	65431	154933	287544	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
2,2-Dichloro-1,1,1-trifluoroethane	FB	Ave	+++++ 1492435	56756 2813198	106491	262176	479641	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Ethylene oxide	FB	Ave	+++++ 2676453	128003 +++++	220434	534236	965240	+++++ 3750	125 +++++	250	625	1250
Dichlorofluoromethane	FB	Ave	+++++ 1964162	74949 3820085	141481	339793	646481	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	+++++ 3154830	148571 6266653	297589	697884	1183547	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	10384 824197	31435 1587006	59628	147699	266742	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethyl ether	FB	Ave	+++++ 436618	17069 679833	29558	78106	125595	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl acetate	FB	Ave	+++++ 958629	+++++ 1323996	67001	168730	235910	+++++ 60.0	+++++ 120	4.00	10.0	20.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	+++++ 695019	25112 1416776	48776	119027	225043	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Propanol	FB	Ave	+++++ 386995	17142 712236	32285	68454	120060	+++++ 600	20.0 1200	40.0	100	200
Methyl acetate	FB	Ave	+++++ 1129243	45331 1803224	78383	198550	327428	+++++ 150	5.00 300	10.0	25.0	50.0
Allyl chloride	FB	Ave	+++++ 1762926	67288 3033155	126496	315103	554026	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	+++++ 1510079	55123 2807682	101337	248352	455709	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 158009	+++++ 246460	12950	32294	46772	+++++ 60.0	+++++ 120	4.00	10.0	20.0
Hexane	CBZ	Ave	24195 1399188	55975 2325631	102693	266936	435884	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 42958

SDG No.:

Instrument ID: MSV_G2 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2010 13:43 Calibration End Date: 11/28/2010 15:42 Calibration ID: 3822

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tert-butyl ethyl ether	FB	Ave	+++++ 10036136	356281 16853499	649707	1708875	3073761	+++++ 150	5.00 300	10.0	25.0	50.0
Ethyl acetate	FB	Ave	+++++ 392817	16814 528127	28363	75586	102334	+++++ 60.0	2.00 120	4.00	10.0	20.0
Cyclohexane	FB	Ave	29966 2127937	86799 4057169	157951	385836	711191	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Ave	90258 7594346	250844 13213104	455203	1218994	2222795	1.50 150	5.00 300	10.0	25.0	50.0
2-Pentanone	FB	Ave	+++++ 572110	24300 769563	39386	106098	158918	+++++ 120	4.00 240	8.00	20.0	40.0
Methyl methacrylate	FB	Lin	+++++ 114216	3833 156974	6997	20602	30508	+++++ 60.0	2.00 120	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	26526 1665612	70202 3155079	125381	307976	550194	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Nitropropane	CBZ	Ave	+++++ 60846	+++++ 88155	4947	10596	15462	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
2-Chloroethyl vinyl ether	CBZ	Lin	+++++ 129813	3343 191706	5714	17657	28643	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Ethyl methacrylate	CBZ	Lin1	+++++ 842628	32150 1271384	58214	150448	241819	+++++ 60.0	2.00 120	4.00	10.0	20.0
Tetrahydrothiophene	CBZ	Ave	+++++ 246234	9651 402867	16419	43350	70348	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,4-Dichloro-2-butene	DCB	Ave	+++++ 107666	+++++ 180619	6513	17503	30565	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	+++++ 96947	3298 172823	5876	14688	26295	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCB	Ave	40683 2741682	117645 5194804	214323	531878	931031	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 567504	22082 928247	36898	101340	162946	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 532089	21991 783258	36028	100856	150653	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 2254967	95576 3658148	160448	444711	700035	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	+++++ 846667	37445 1499390	64255	165343	281844	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7804.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 13:43
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,S0.5
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	7.859	7.859	(1.000)	1265616	10.0000	
* 85 Chlorobenzene-d5	119	10.126	10.126	(1.000)	243547	10.0000	
* 110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	319867	10.0000	(Q)
$ 49 Dibromofluoromethane (Surr)	111	7.294	7.294	(0.928)	8804	0.30000	0.311098(a)
$ 55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	9918	0.30000	0.370504(a)
$ 73 Toluene-d8	98	9.032	9.032	(0.892)	43847	0.30000	0.371333(a)
$ 96 4-Bromofluorobenzene (Surr)	95	11.005	11.005	(1.087)	14820	0.30000	0.320345(a)
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
9 Ethylene Oxide	43	4.771	4.771	(0.607)	43164	37.5000	34.4996(a)
12 Dichlorofluoromethane	67	5.051	5.051	(0.643)	25458	0.30000	0.244169(a)
15 1,2-dichloro-1,1,2-trifluoroe	117	5.316	5.316	(0.676)	10384	0.30000	0.244405(a)
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					
17 Ethyl Ether	59	5.344	5.344	(0.680)	6336	0.30000	0.290981(a)
18 Propylene Oxide	58	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	5.582	5.582	(0.710)	7709	0.30000	0.210753(a)
22 2-propanol	45	5.595	5.595	(0.712)	7655	6.00000	7.18337(aQ)
26 Methyl Acetate	43	5.819	5.819	(0.740)	17933	1.50000	1.57336
27 Allyl Chloride	41	5.875	5.875	(0.748)	23899	0.30000	0.262027(a)
28 Carbon Disulfide	76	Compound Not Detected.					
32 Methyl t-butyl ether	73	6.157	6.157	(0.783)	18460	0.30000	0.242092(a)
34 Hexane	57	6.386	6.386	(0.631)	24195	0.30000	0.327328(a)
35 Vinyl acetate	43	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
39 ETBE	59	6.765	6.765	(0.861)	128325	1.50000	1.29376
40 Ethyl Acetate	43	6.894	6.894	(0.877)	9791	0.60000	0.995711(a)
48 Tetrahydrofuran	42	Compound Not Detected.					
52 Cyclohexane	56	7.480	7.480	(0.952)	29966	0.30000	0.264493(a)
57 TAME	73	7.666	7.666	(0.975)	90258	1.50000	1.27594
62 2-Pentanone	43	8.174	8.174	(1.040)	11887	1.20000	1.67098(a)
65 Methyl Cyclohexane	55	8.338	8.338	(1.061)	26526	0.30000	0.292233(a)
63 Methyl Methacrylate	100	8.267	8.267	(1.052)	2115	0.60000	-0.418588(aQ)
69 2-nitropropane	41	8.624	8.624	(0.852)	1066	0.30000	0.362460(aQ)
70 2-Chloroethyl vinyl ether	63	8.624	8.624	(0.852)	1927	0.30000	1.05784(a)
75 Ethyl methacrylate	69	9.161	9.161	(0.905)	14622	0.60000	0.546311(a)
82 Tetrahydrothiophene	60	9.718	9.718	(0.960)	4023	0.30000	0.329729(a)
94 cis-1,4-dichloro-2-butene	53	10.862	10.862	(0.906)	1976	0.30000	0.466226(a)
98 t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	1523	0.30000	0.650012(aQ)
111 1,2,3-Trimethylbenzene	105	12.014	12.014	(1.002)	40683	0.30000	0.317495(a)

QC Flag Legend

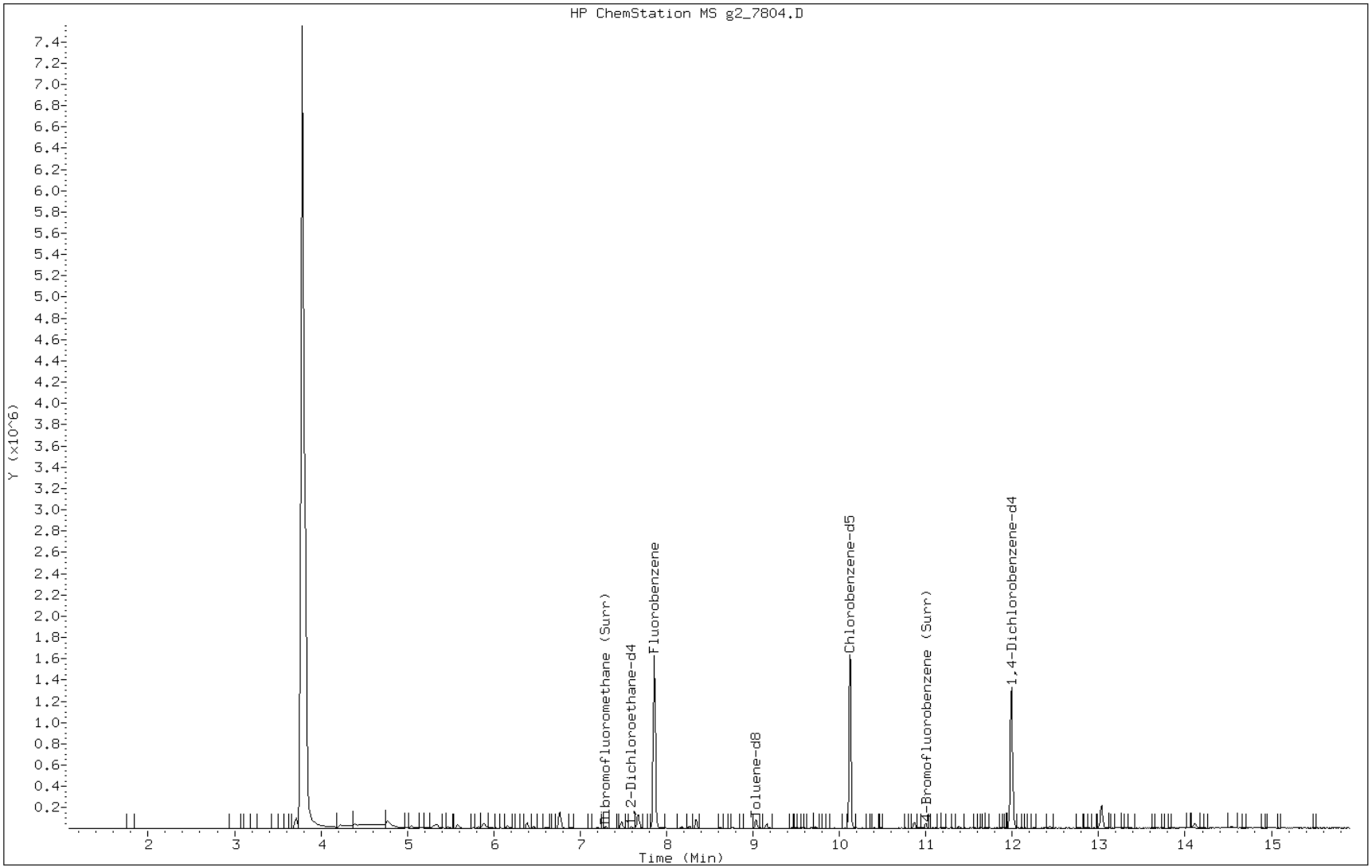
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7804.D

Date: 28-NOV-2010 13:43

Client ID: Instrument: GCMS2.i

Sample Info: IC,,S0.5 Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7805.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 14:03
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,S001
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 13:43 Cal File: g2_7804.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	7.859	7.859	(1.000)	895127	10.0000	
* 85 Chlorobenzene-d5	119	10.119	10.119	(1.000)	174026	10.0000	
* 110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	272723	10.0000	
$ 49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	22082	1.00000	1.10325
$ 55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	21991	1.00000	1.16153
$ 73 Toluene-d8	98	9.032	9.032	(0.893)	95576	1.00000	1.13277
$ 96 4-Bromofluorobenzene (Surr)	95	10.998	10.998	(1.087)	37445	1.00000	1.13274
6 1,2-Dichlorotetrafluoroethane	85	4.213	4.213	(0.536)	30447	1.00000	0.907288(a)
9 Ethylene Oxide	43	4.772	4.772	(0.607)	128003	125.000	144.654
12 Dichlorofluoromethane	67	5.037	5.037	(0.641)	74949	1.00000	1.01636(a)
15 1,2-dichloro-1,1,2-trifluoroe	117	5.302	5.302	(0.675)	31435	1.00000	1.04611
16 2,2-dichloro-1,1,1-trifluoroe	83	5.344	5.344	(0.680)	56756	1.00000	1.02296
17 Ethyl Ether	59	5.344	5.344	(0.680)	17069	1.00000	1.10835(a)
18 Propylene Oxide	58	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	5.582	5.582	(0.710)	25112	1.00000	0.970677(a)
22 2-propanol	45	5.582	5.582	(0.710)	17142	20.0000	22.7437
26 Methyl Acetate	43	5.819	5.819	(0.740)	45331	5.00000	5.62326
27 Allyl Chloride	41	5.875	5.875	(0.748)	67288	1.00000	1.04309(a)
28 Carbon Disulfide	76	5.903	5.903	(0.751)	148571	1.00000	1.08052(M)
32 Methyl t-butyl ether	73	6.158	6.158	(0.783)	55123	1.00000	1.02211(a)
34 Hexane	57	6.386	6.386	(0.631)	55975	1.00000	1.05979
35 Vinyl acetate	43	6.458	6.458	(0.822)	43459	2.00000	2.75702

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 ETBE	59	6.765	6.765	(0.861)	356281	5.00000	5.07870
40 Ethyl Acetate	43	6.894	6.894	(0.877)	16814	2.00000	2.41766(a)
48 Tetrahydrofuran	42	7.202	7.202	(0.916)	7010	2.00000	2.38524(a)
52 Cyclohexane	56	7.480	7.480	(0.952)	86799	1.00000	1.08322(a)
57 TAME	73	7.673	7.673	(0.976)	250844	5.00000	5.01380
62 2-Pentanone	43	8.174	8.174	(1.040)	24300	4.00000	4.82973
65 Methyl Cyclohexane	55	8.346	8.346	(1.062)	70202	1.00000	1.09351
63 Methyl Methacrylate	100	8.267	8.267	(1.052)	3833	2.00000	0.915275(a)
69 2-nitropropane	41	8.617	8.617	(0.852)	3355	1.00000	1.59648(aQ)
70 2-Chloroethyl vinyl ether	63	8.624	8.624	(0.852)	3343	1.00000	1.50582(a)
75 Ethyl methacrylate	69	9.161	9.161	(0.905)	32150	2.00000	2.05567
82 Tetrahydrothiophene	60	9.718	9.718	(0.960)	9651	1.00000	1.10700
94 cis-1,4-dichloro-2-butene	53	10.862	10.862	(0.906)	3862	1.00000	1.06873
98 t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	3298	1.00000	1.21337(Q)
111 1,2,3-Trimethylbenzene	105	12.014	12.014	(1.002)	117645	1.00000	1.07682

QC Flag Legend

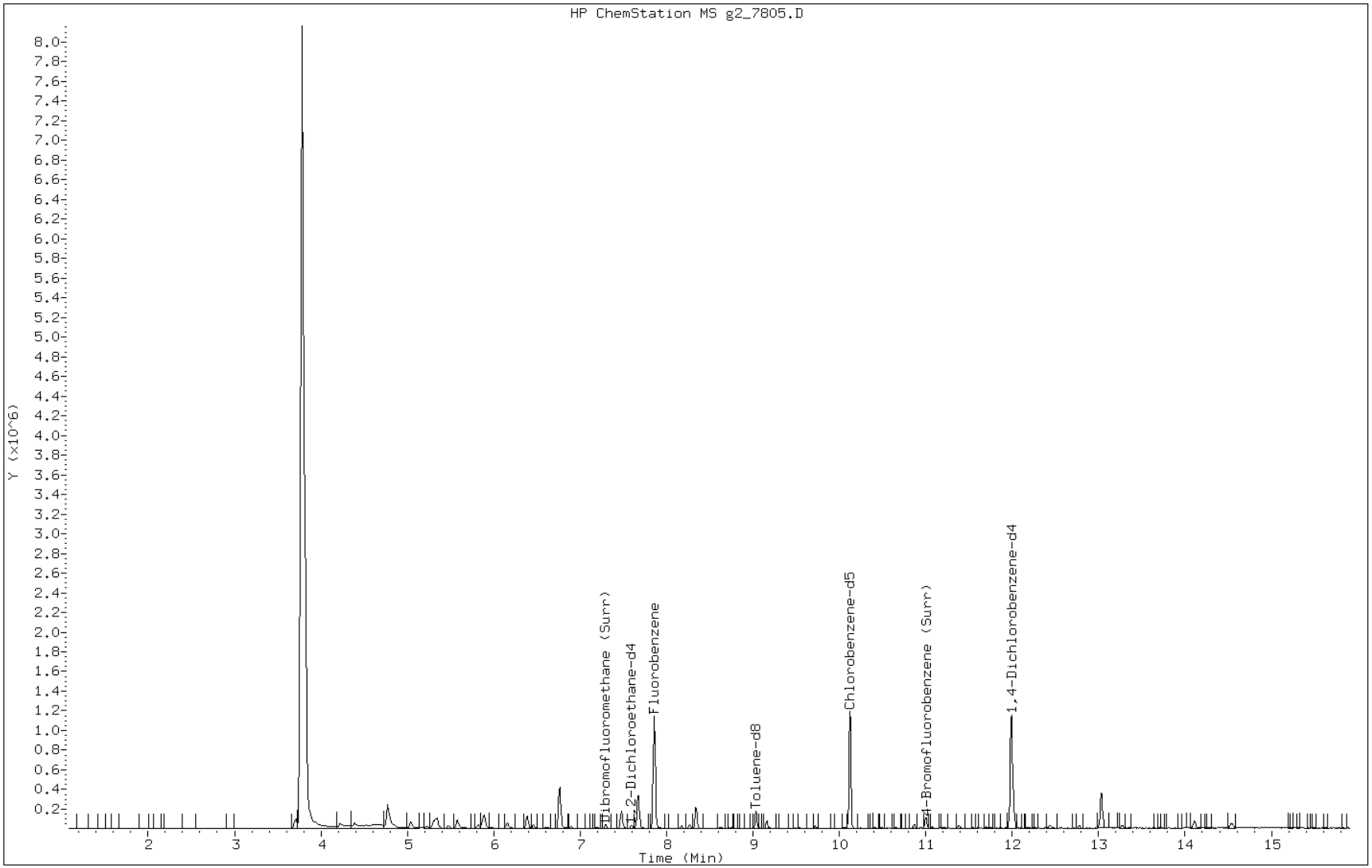
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: g2_7805.D

Date: 28-NOV-2010 14:03

Client ID: Instrument: GCMS2.i

Sample Info: IC,,S001 Operator: ILCZYSZD



Manual Integration Report

Data File: g2_7805.D
Inj. Date and Time: 28-NOV-2010 14:03
Instrument ID: GCMS2.i
Client ID:
Compound: 28 Carbon Disulfide
CAS #: 75-15-0
Report Date: 11/29/2010

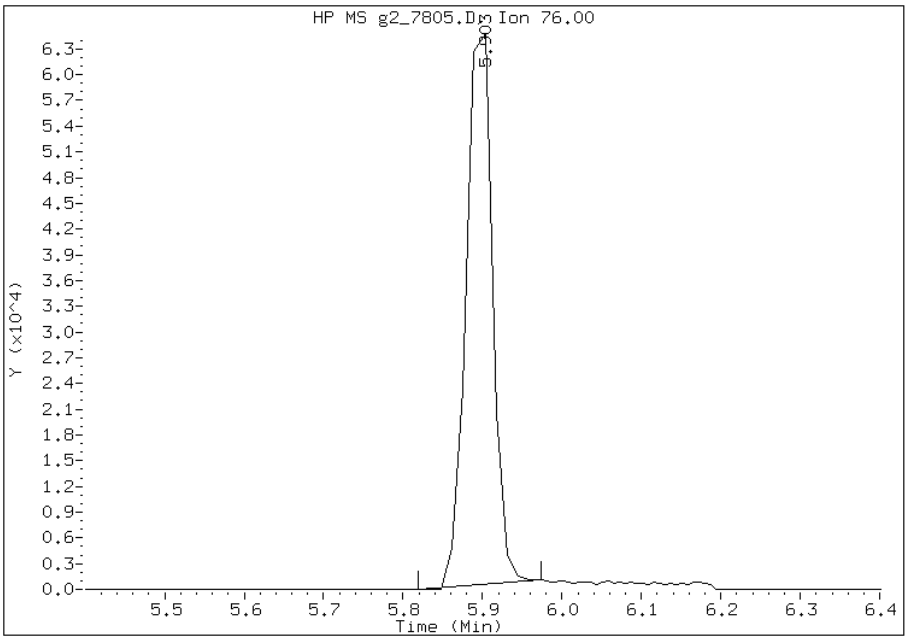
Processing Integration Results

RT: 5.90

Response: 148571

Amount: 0

Conc: 0



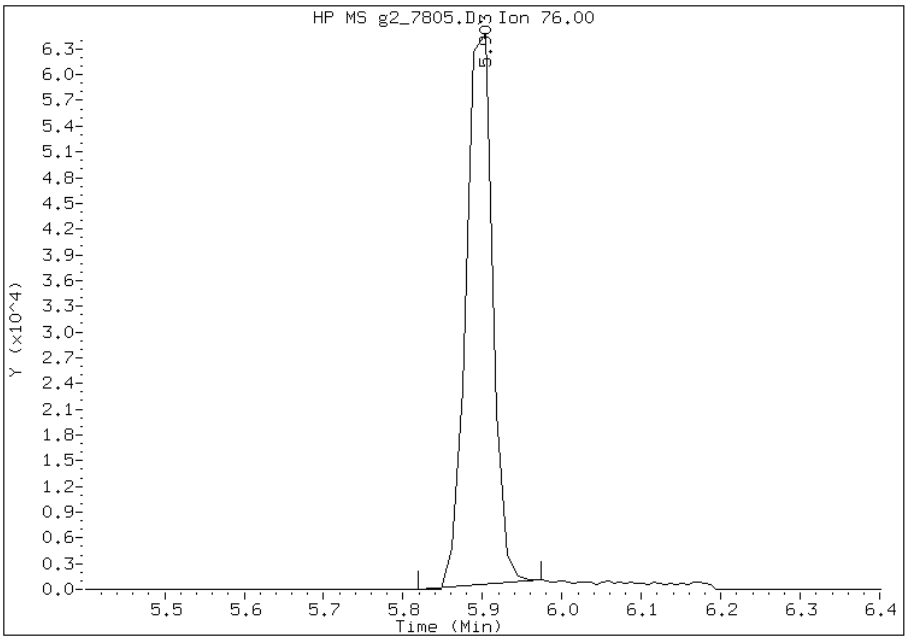
Manual Integration Results

RT: 5.90

Response: 148571

Amount: 1

Conc: 1



Manually Integrated By: jacksonto
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7806.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 14:23
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,S002
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 14:03 Cal File: g2_7805.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	838039	10.0000	
*	85 Chlorobenzene-d5	119	10.119	10.119	(1.000)	168563	10.0000	
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	263353	10.0000	
$	49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	36898	2.00000	1.96905
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	36028	2.00000	2.03258
$	73 Toluene-d8	98	9.032	9.032	(0.893)	160448	2.00000	1.96326
$	96 4-Bromofluorobenzene (Surr)	95	10.998	10.998	(1.087)	64255	2.00000	2.00677
	6 1,2-Dichlorotetrafluoroethane	85	4.213	4.213	(0.536)	65431	2.00000	2.08259
	9 Ethylene Oxide	43	4.772	4.772	(0.607)	220434	250.000	266.078
	12 Dichlorofluoromethane	67	5.037	5.037	(0.641)	141481	2.00000	2.04928
	15 1,2-dichloro-1,1,2-trifluoroe	117	5.302	5.302	(0.675)	59628	2.00000	2.11950
	16 2,2-dichloro-1,1,1-trifluoroe	83	5.344	5.344	(0.680)	106491	2.00000	2.05013
	17 Ethyl Ether	59	5.344	5.344	(0.680)	29558	2.00000	2.05004
	18 Propylene Oxide	58	Compound Not Detected.					
	21 Trichlorotrifluoroethane	151	5.582	5.582	(0.710)	48776	2.00000	2.01382
	22 2-propanol	45	5.582	5.582	(0.710)	32285	40.0000	45.7532
	26 Methyl Acetate	43	5.819	5.819	(0.740)	78383	10.0000	10.3857
	27 Allyl Chloride	41	5.875	5.875	(0.748)	126496	2.00000	2.09450
	28 Carbon Disulfide	76	5.903	5.903	(0.751)	297589	2.00000	2.31173
	32 Methyl t-butyl ether	73	6.158	6.158	(0.783)	101337	2.00000	2.00704(a)
	34 Hexane	57	6.387	6.387	(0.631)	102693	2.00000	2.00733
	35 Vinyl acetate	43	6.458	6.458	(0.822)	67001	4.00000	4.54006

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 ETBE	59	6.765	6.765	(0.861)	649707	10.0000	9.89232
40 Ethyl Acetate	43	6.894	6.894	(0.877)	28363	4.00000	4.35608(a)
48 Tetrahydrofuran	42	7.202	7.202	(0.916)	12950	4.00000	4.70658(a)
52 Cyclohexane	56	7.481	7.481	(0.952)	157951	2.00000	2.10545
57 TAME	73	7.674	7.674	(0.976)	455203	10.0000	9.71827
62 2-Pentanone	43	8.174	8.174	(1.040)	39386	8.00000	8.36139
65 Methyl Cyclohexane	55	8.346	8.346	(1.062)	125381	2.00000	2.08606
63 Methyl Methacrylate	100	8.267	8.267	(1.052)	6997	4.00000	2.99308(Q)
69 2-nitropropane	41	8.617	8.617	(0.852)	4947	2.00000	2.43033
70 2-Chloroethyl vinyl ether	63	8.625	8.625	(0.852)	5714	2.00000	2.08826
75 Ethyl methacrylate	69	9.161	9.161	(0.905)	58214	4.00000	3.99963
82 Tetrahydrothiophene	60	9.719	9.719	(0.960)	16419	2.00000	1.94435
94 cis-1,4-dichloro-2-butene	53	10.863	10.863	(0.906)	6513	2.00000	1.86648
98 t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	5876	2.00000	1.99864
111 1,2,3-Trimethylbenzene	105	12.014	12.014	(1.002)	214323	2.00000	2.03153

QC Flag Legend

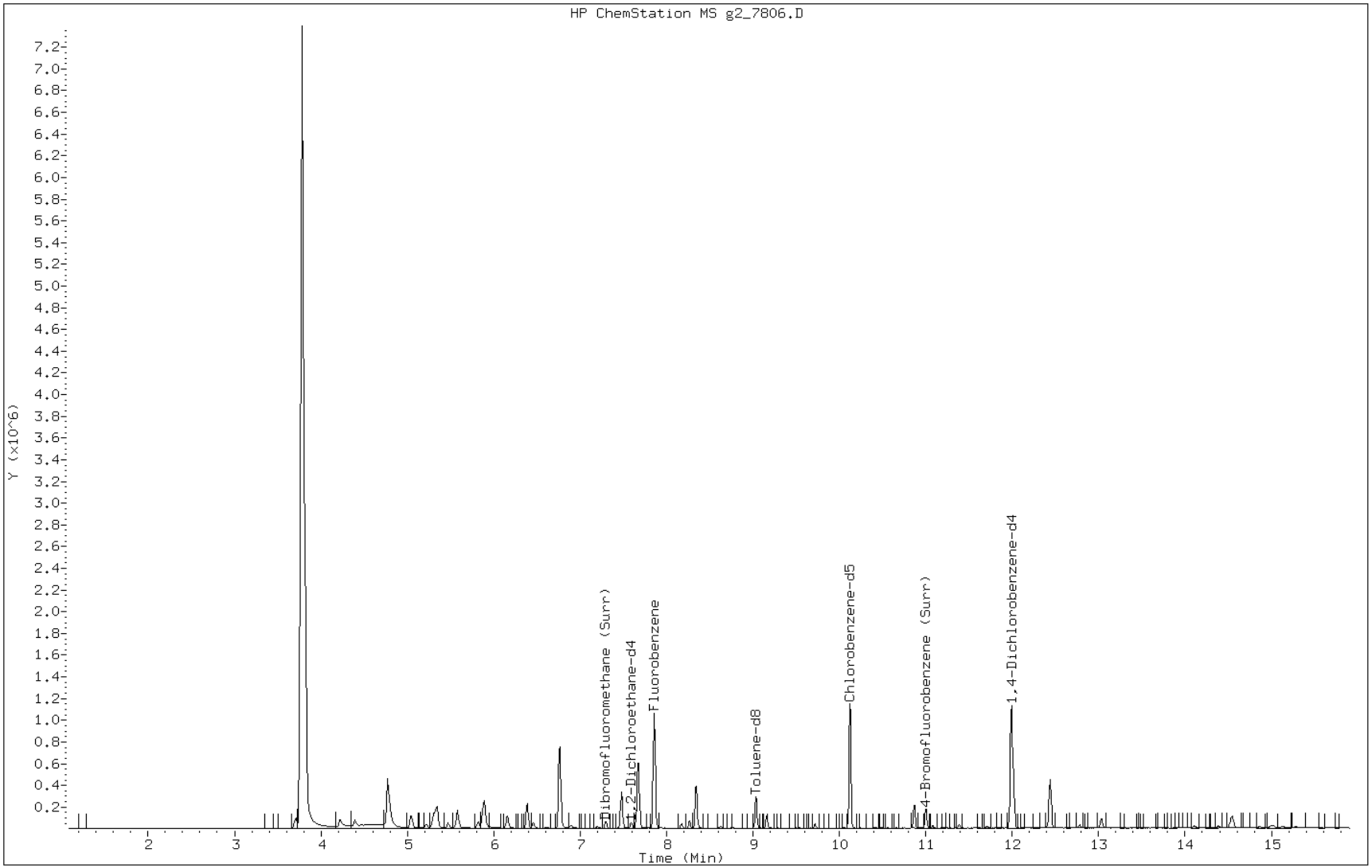
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7806.D

Date: 28-NOV-2010 14:23

Client ID: Instrument: GCMS2.i

Sample Info: IC,,S002 Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7807.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 14:43
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,S005
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 14:23 Cal File: g2_7806.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	7.859	7.859	(1.000)	951032	10.0000	
* 85	Chlorobenzene-d5	119	10.119	10.119	(1.000)	182071	10.0000	
* 110	1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	271068	10.0000	
$ 49	Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	101340	5.00000	4.76546
$ 55	1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	100856	5.00000	5.01392
$ 73	Toluene-d8	98	9.032	9.032	(0.893)	444711	5.00000	5.03783
$ 96	4-Bromofluorobenzene (Surr)	95	10.998	10.998	(1.087)	165343	5.00000	4.78076
6	1,2-Dichlorotetrafluoroethane	85	4.213	4.213	(0.536)	154933	5.00000	4.34544
9	Ethylene Oxide	43	4.772	4.772	(0.607)	534236	625.000	568.242
12	Dichlorofluoromethane	67	5.051	5.051	(0.643)	339793	5.00000	4.33698
15	1,2-dichloro-1,1,2-trifluoroe	117	5.302	5.302	(0.675)	147699	5.00000	4.62626
16	2,2-dichloro-1,1,1-trifluoroe	83	5.344	5.344	(0.680)	262176	5.00000	4.44765
17	Ethyl Ether	59	5.344	5.344	(0.680)	78106	5.00000	4.77355
18	Propylene Oxide	58	Compound Not Detected.					
21	Trichlorotrifluoroethane	151	5.582	5.582	(0.710)	119027	5.00000	4.33041
22	2-propanol	45	5.596	5.596	(0.712)	68454	100.000	85.4847
26	Methyl Acetate	43	5.819	5.819	(0.740)	198550	25.0000	23.1821
27	Allyl Chloride	41	5.875	5.875	(0.748)	315103	5.00000	4.59754
28	Carbon Disulfide	76	5.903	5.903	(0.751)	697884	5.00000	4.77718
32	Methyl t-butyl ether	73	6.158	6.158	(0.783)	248352	5.00000	4.33435(a)
34	Hexane	57	6.386	6.386	(0.631)	266936	5.00000	4.83066
35	Vinyl acetate	43	6.458	6.458	(0.822)	168730	10.0000	10.0749

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 ETBE	59	6.765	6.765	(0.861)	1708875	25.0000	22.9277
40 Ethyl Acetate	43	6.894	6.894	(0.877)	75586	10.0000	10.2295
48 Tetrahydrofuran	42	7.202	7.202	(0.916)	32294	10.0000	10.3425
52 Cyclohexane	56	7.480	7.480	(0.952)	385836	5.00000	4.53205
57 TAME	73	7.674	7.674	(0.976)	1218994	25.0000	22.9327
62 2-Pentanone	43	8.174	8.174	(1.040)	106098	20.0000	19.8478
65 Methyl Cyclohexane	55	8.338	8.338	(1.061)	307976	5.00000	4.51524
63 Methyl Methacrylate	100	8.267	8.267	(1.052)	20602	10.0000	9.79460
69 2-nitropropane	41	8.617	8.617	(0.852)	10596	5.00000	4.81933(Q)
70 2-Chloroethyl vinyl ether	63	8.624	8.624	(0.852)	17657	5.00000	4.58960
75 Ethyl methacrylate	69	9.161	9.161	(0.905)	150448	10.0000	9.82091
82 Tetrahydrothiophene	60	9.718	9.718	(0.960)	43350	5.00000	4.75268
94 cis-1,4-dichloro-2-butene	53	10.863	10.863	(0.906)	17503	5.00000	4.87319
98 t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	14688	5.00000	4.44783
111 1,2,3-Trimethylbenzene	105	12.014	12.014	(1.002)	531878	5.00000	4.89809

QC Flag Legend

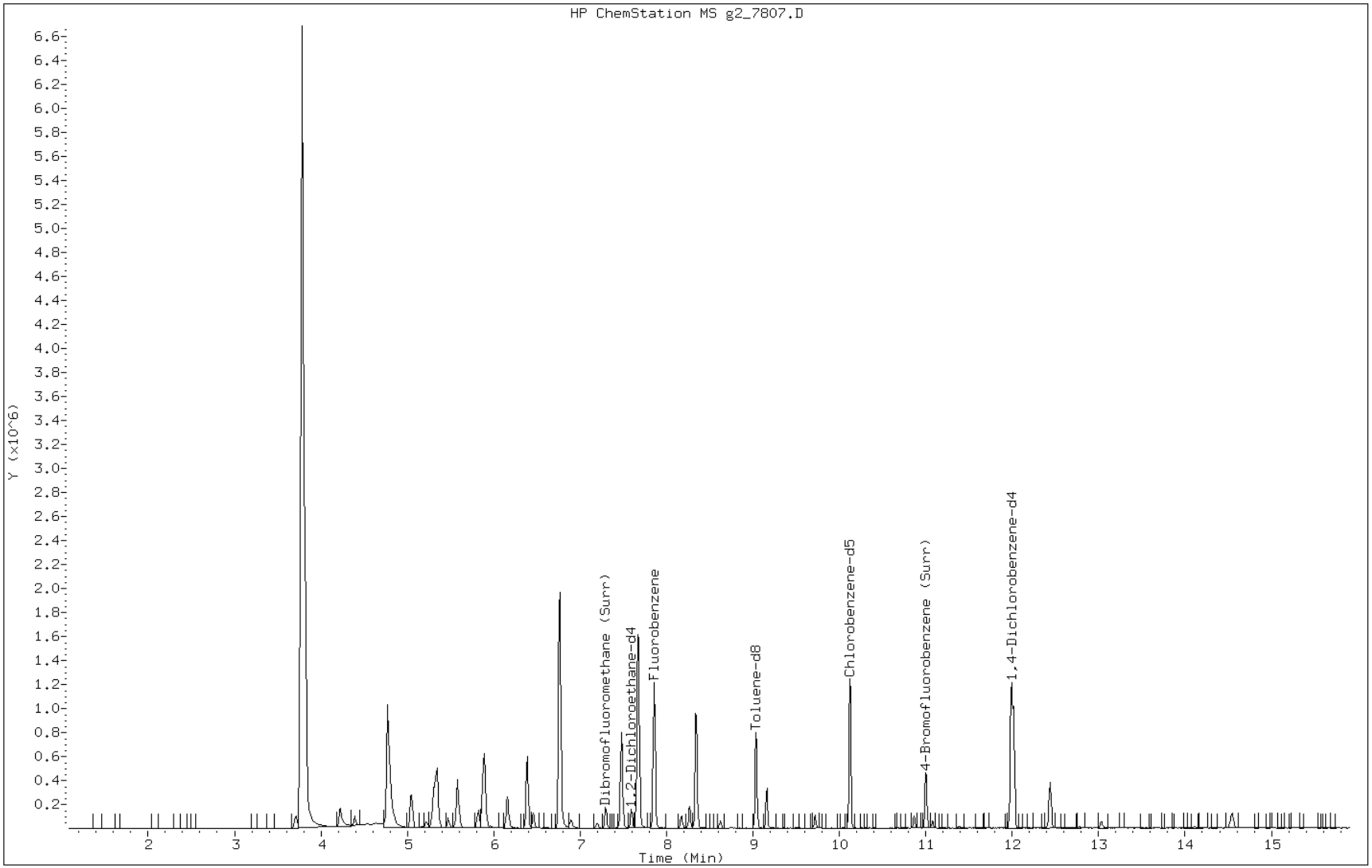
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7807.D

Date: 28-NOV-2010 14:43

Client ID: Instrument: GCMS2.i

Sample Info: IC,,S005 Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7808.D
Lab Smp Id: ICIS
Inj Date : 28-NOV-2010 15:02
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : ICIS,,S010
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 14:43 Cal File: g2_7807.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 59 Fluorobenzene	96	7.859	7.859	(1.000)	760838	10.0000	
* 85 Chlorobenzene-d5	119	10.119	10.119	(1.000)	152349	10.0000	
* 110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	247294	10.0000	
$ 49 Dibromofluoromethane (Surr)	111	7.294	7.294	(0.928)	162946	10.0000	9.57790
$ 55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	150653	10.0000	9.36174
$ 73 Toluene-d8	98	9.032	9.032	(0.893)	700035	10.0000	9.47734
$ 96 4-Bromofluorobenzene (Surr)	95	11.005	11.005	(1.088)	281844	10.0000	9.73916
6 1,2-Dichlorotetrafluoroethane	85	4.227	4.227	(0.538)	287544	10.0000	10.0808
9 Ethylene Oxide	43	4.772	4.772	(0.607)	965240	1250.00	1283.33
12 Dichlorofluoromethane	67	5.051	5.051	(0.643)	646481	10.0000	10.3141
15 1,2-dichloro-1,1,2-trifluoroe	117	5.302	5.302	(0.675)	266742	10.0000	10.4435
16 2,2-dichloro-1,1,1-trifluoroe	83	5.344	5.344	(0.680)	479641	10.0000	10.1708
17 Ethyl Ether	59	5.344	5.344	(0.680)	125595	10.0000	9.59472
18 Propylene Oxide	58	5.582	5.582	(0.710)	3185	500.000	0.000000(a)
21 Trichlorotrifluoroethane	151	5.582	5.582	(0.710)	225043	10.0000	10.2341
22 2-propanol	45	5.596	5.596	(0.712)	120060	200.000	187.409
26 Methyl Acetate	43	5.819	5.819	(0.740)	327428	50.0000	47.7860
27 Allyl Chloride	41	5.875	5.875	(0.748)	554026	10.0000	10.1043
28 Carbon Disulfide	76	5.903	5.903	(0.751)	1183547	10.0000	10.1269
32 Methyl t-butyl ether	73	6.158	6.158	(0.783)	455709	10.0000	9.94138
34 Hexane	57	6.386	6.386	(0.631)	435884	10.0000	9.42695
35 Vinyl acetate	43	6.458	6.458	(0.822)	235910	20.0000	17.6075

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 ETBE	59	6.765	6.765	(0.861)	3073761	50.0000	51.5493
40 Ethyl Acetate	43	6.894	6.894	(0.877)	102334	20.0000	17.3115
48 Tetrahydrofuran	42	7.194	7.194	(0.915)	46772	20.0000	18.7238
52 Cyclohexane	56	7.480	7.480	(0.952)	711191	10.0000	10.4419
57 TAME	73	7.673	7.673	(0.976)	2222795	50.0000	52.2704
62 2-Pentanone	43	8.174	8.174	(1.040)	158918	40.0000	37.1605
65 Methyl Cyclohexane	55	8.346	8.346	(1.062)	550194	10.0000	10.0828
63 Methyl Methacrylate	100	8.267	8.267	(1.052)	30508	20.0000	19.2126
69 2-nitropropane	41	8.617	8.617	(0.852)	15462	10.0000	8.40450
70 2-Chloroethyl vinyl ether	63	8.624	8.624	(0.852)	28643	10.0000	8.19925
75 Ethyl methacrylate	69	9.161	9.161	(0.905)	241819	20.0000	19.0311
82 Tetrahydrothiophene	60	9.718	9.718	(0.960)	70348	10.0000	9.21727
94 cis-1,4-dichloro-2-butene	53	10.862	10.862	(0.906)	30565	10.0000	9.32804
98 t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	26295	10.0000	8.45473
111 1,2,3-Trimethylbenzene	105	12.014	12.014	(1.002)	931031	10.0000	9.39818

QC Flag Legend

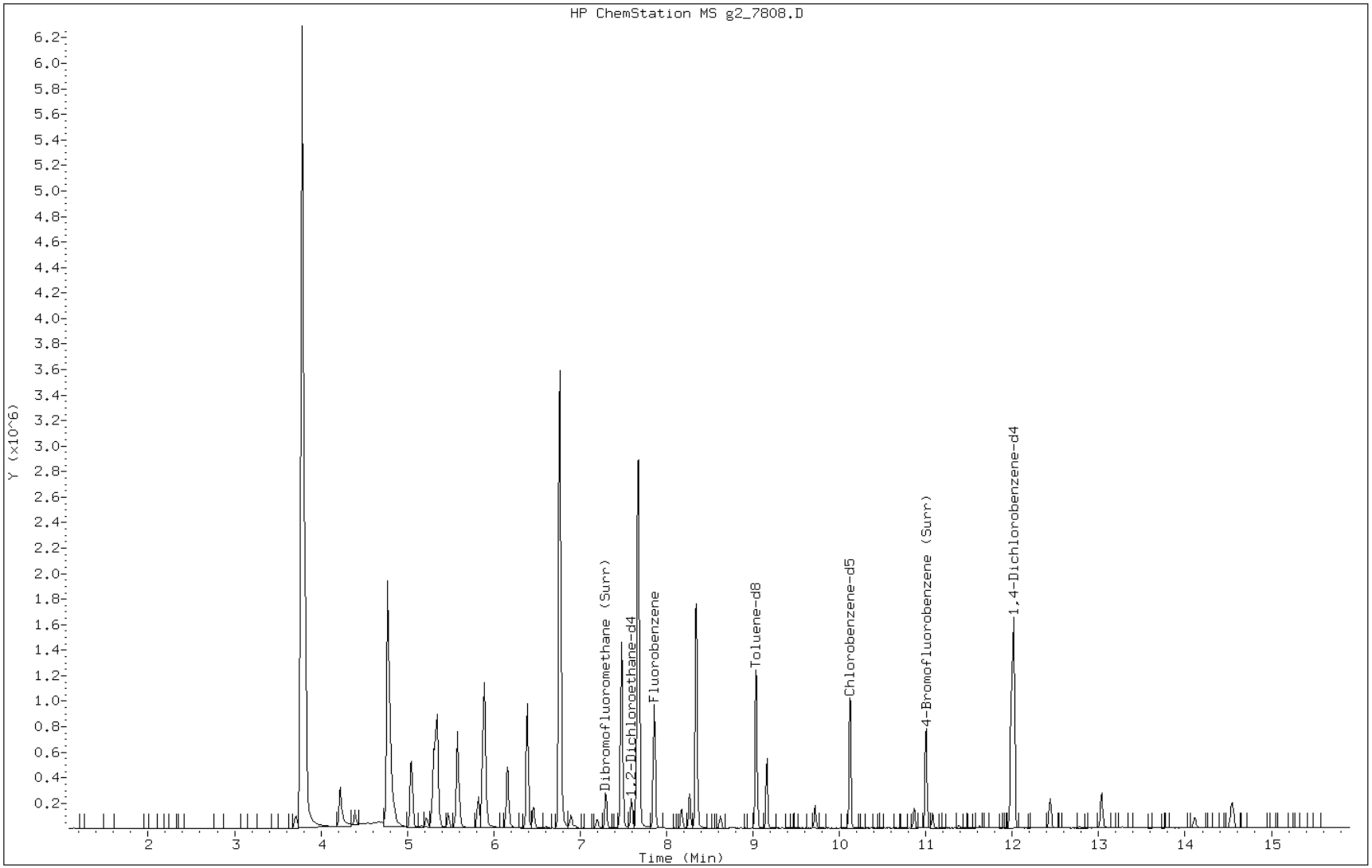
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: g2_7808.D

Date: 28-NOV-2010 15:02

Client ID: Instrument: GCMS2.i

Sample Info: ICIS,,S010 Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7809.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 15:22
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,S30
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 15:02 Cal File: g2_7808.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	856840	10.0000	
*	85 Chlorobenzene-d5	119	10.119	10.119	(1.000)	159059	10.0000	
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	237184	10.0000	
$	49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	567504	30.0000	29.6202
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	532089	30.0000	29.3600
$	73 Toluene-d8	98	9.032	9.032	(0.893)	2254967	30.0000	29.2407
$	96 4-Bromofluorobenzene (Surr)	95	11.006	11.006	(1.088)	846667	30.0000	28.0225
	6 1,2-Dichlorotetrafluoroethane	85	4.213	4.213	(0.536)	904543	30.0000	28.1588
	9 Ethylene Oxide	43	4.772	4.772	(0.607)	2676453	3750.00	3159.77
	12 Dichlorofluoromethane	67	5.037	5.037	(0.641)	1964162	30.0000	27.8257
	15 1,2-dichloro-1,1,2-trifluoroe	117	5.302	5.302	(0.675)	824197	30.0000	28.6536
	16 2,2-dichloro-1,1,1-trifluoroe	83	5.344	5.344	(0.680)	1492435	30.0000	28.1014
	17 Ethyl Ether	59	5.344	5.344	(0.680)	436618	30.0000	29.6179
	18 Propylene Oxide	58	Compound Not Detected.					
	21 Trichlorotrifluoroethane	151	5.582	5.582	(0.710)	695019	30.0000	28.0656
	22 2-propanol	45	5.582	5.582	(0.710)	386995	600.000	536.402
	26 Methyl Acetate	43	5.819	5.819	(0.740)	1129243	150.000	146.341
	27 Allyl Chloride	41	5.875	5.875	(0.748)	1762926	30.0000	28.5498
	28 Carbon Disulfide	76	5.889	5.889	(0.749)	3154830	30.0000	23.9696
	32 Methyl t-butyl ether	73	6.158	6.158	(0.783)	1510079	30.0000	29.2517
	34 Hexane	57	6.387	6.387	(0.631)	1399188	30.0000	28.9840
	35 Vinyl acetate	43	6.458	6.458	(0.822)	958629	60.0000	63.5324

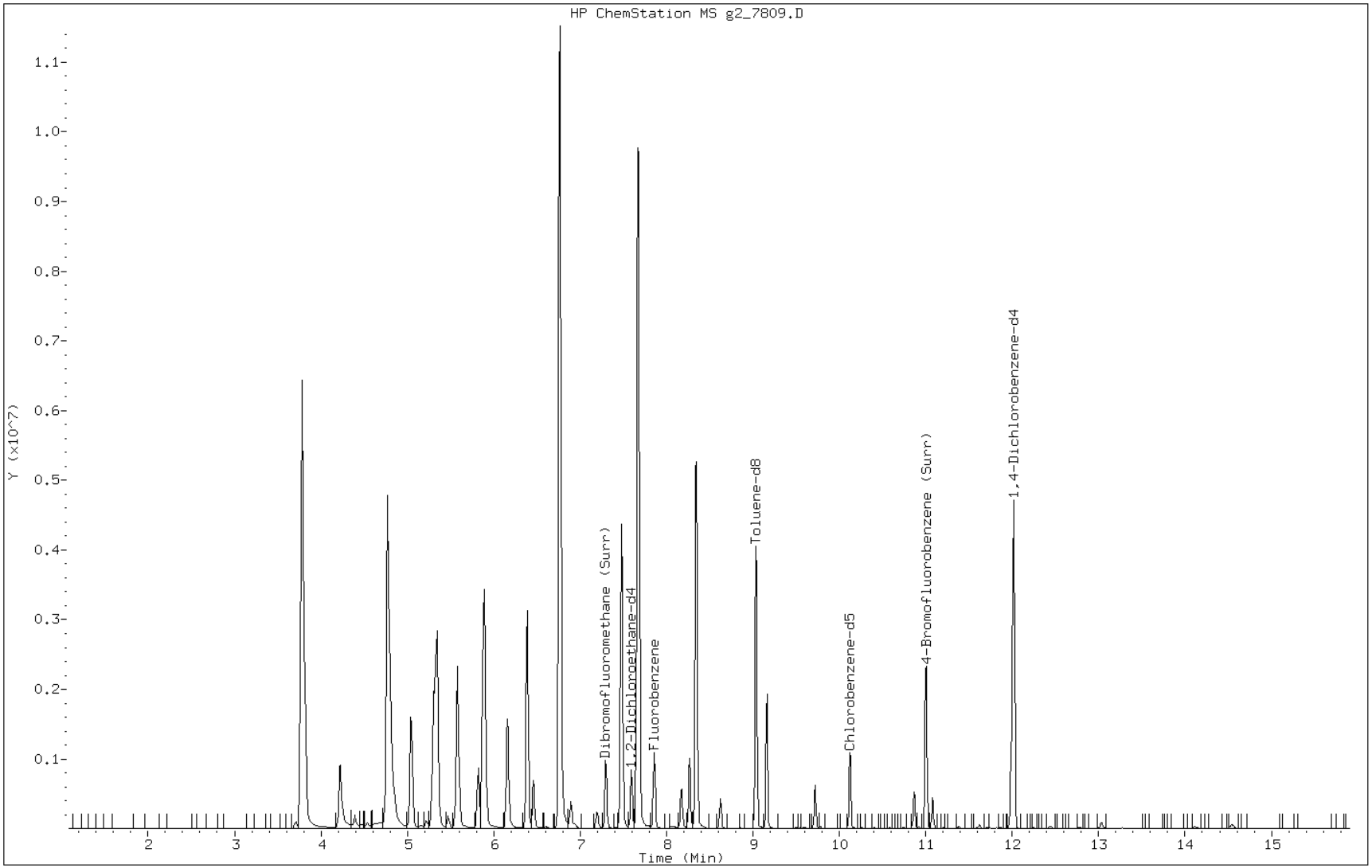
						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 ETBE	59	6.765	6.765	(0.861)	10036136	150.000	149.455
40 Ethyl Acetate	43	6.894	6.894	(0.877)	392817	60.0000	59.0063
48 Tetrahydrofuran	42	7.194	7.194	(0.915)	158009	60.0000	56.1670
52 Cyclohexane	56	7.480	7.480	(0.952)	2127937	30.0000	27.7425
57 TAME	73	7.674	7.674	(0.976)	7594346	150.000	158.576
62 2-Pentanone	43	8.174	8.174	(1.040)	572110	120.000	118.790
65 Methyl Cyclohexane	55	8.346	8.346	(1.062)	1665612	30.0000	27.1040
63 Methyl Methacrylate	100	8.267	8.267	(1.052)	114216	60.0000	66.8265
69 2-nitropropane	41	8.617	8.617	(0.852)	60846	30.0000	31.6781
70 2-Chloroethyl vinyl ether	63	8.625	8.625	(0.852)	129813	30.0000	33.1063
75 Ethyl methacrylate	69	9.161	9.161	(0.905)	842628	60.0000	63.9387
82 Tetrahydrothiophene	60	9.719	9.719	(0.960)	246234	30.0000	30.9015
94 cis-1,4-dichloro-2-butene	53	10.863	10.863	(0.906)	107666	30.0000	34.2588
98 t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	96947	30.0000	31.6923
111 1,2,3-Trimethylbenzene	105	12.014	12.014	(1.002)	2741682	30.0000	28.8552

Data File: g2_7809.D

Date: 28-NOV-2010 15:22

Client ID: Instrument: GCMS2.i

Sample Info: IC,,S30 Operator: ILCZYSZD



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7810.D
Lab Smp Id: IC
Inj Date : 28-NOV-2010 15:42
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : IC,,S60
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 15:22 Cal File: g2_7809.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	7.859	7.859	(1.000)	682324	10.0000	
* 85 Chlorobenzene-d5	119	10.119	10.119	(1.000)	131594	10.0000	
* 110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	223315	10.0000	
$ 49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	928247	60.0000	60.8403(A)
$ 55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	783258	60.0000	54.2732
$ 73 Toluene-d8	98	9.032	9.032	(0.893)	3658148	60.0000	57.3365
$ 96 4-Bromofluorobenzene (Surr)	95	11.005	11.005	(1.088)	1499390	60.0000	59.9833
6 1,2-Dichlorotetrafluoroethane	85	4.213	4.213	(0.536)	1754147	60.0000	68.5741(A)
9 Ethylene Oxide	43	4.772	4.772	(0.607)	4065382	7500.00	6027.06
12 Dichlorofluoromethane	67	5.037	5.037	(0.641)	3820085	60.0000	67.9596(A)
15 1,2-dichloro-1,1,2-trifluoroe	117	5.302	5.302	(0.675)	1587006	60.0000	69.2844(A)
16 2,2-dichloro-1,1,1-trifluoroe	83	5.344	5.344	(0.680)	2813198	60.0000	66.5185(A)
17 Ethyl Ether	59	5.344	5.344	(0.680)	679833	60.0000	57.9113
18 Propylene Oxide	58	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	5.582	5.582	(0.710)	1416776	60.0000	71.8437(A)
22 2-propanol	45	5.596	5.596	(0.712)	712236	1200.00	1239.70(A)
26 Methyl Acetate	43	5.819	5.819	(0.740)	1803224	300.000	293.452
27 Allyl Chloride	41	5.875	5.875	(0.748)	3033155	60.0000	61.6839(A)
28 Carbon Disulfide	76	5.889	5.889	(0.749)	6266653	60.0000	59.7900
32 Methyl t-butyl ether	73	6.158	6.158	(0.783)	2807682	60.0000	68.2981(A)
34 Hexane	57	6.386	6.386	(0.631)	2325631	60.0000	58.2297
35 Vinyl acetate	43	6.458	6.458	(0.822)	1323996	120.000	110.189

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 ETBE	59	6.765	6.765	(0.861)	16853499	300.000	315.170(A)
40 Ethyl Acetate	43	6.894	6.894	(0.877)	528127	120.000	99.6221
48 Tetrahydrofuran	42	7.194	7.194	(0.915)	246460	120.000	110.016
52 Cyclohexane	56	7.480	7.480	(0.952)	4057169	60.0000	66.4232(A)
57 TAME	73	7.666	7.666	(0.975)	13213104	300.000	346.467(A)
62 2-Pentanone	43	8.174	8.174	(1.040)	769563	240.000	200.657
65 Methyl Cyclohexane	55	8.338	8.338	(1.061)	3155079	60.0000	64.4731(A)
63 Methyl Methacrylate	100	8.267	8.267	(1.052)	156974	120.000	116.258
69 2-nitropropane	41	8.617	8.617	(0.852)	88155	60.0000	55.4749
70 2-Chloroethyl vinyl ether	63	8.624	8.624	(0.852)	191706	60.0000	58.5108
75 Ethyl methacrylate	69	9.161	9.161	(0.905)	1271384	120.000	116.756
82 Tetrahydrothiophene	60	9.718	9.718	(0.960)	402867	60.0000	61.1105(A)
94 cis-1,4-dichloro-2-butene	53	10.862	10.862	(0.906)	180619	60.0000	61.0415(A)
98 t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	172823	60.0000	59.7513
111 1,2,3-Trimethylbenzene	105	12.014	12.014	(1.002)	5194804	60.0000	58.0690

QC Flag Legend

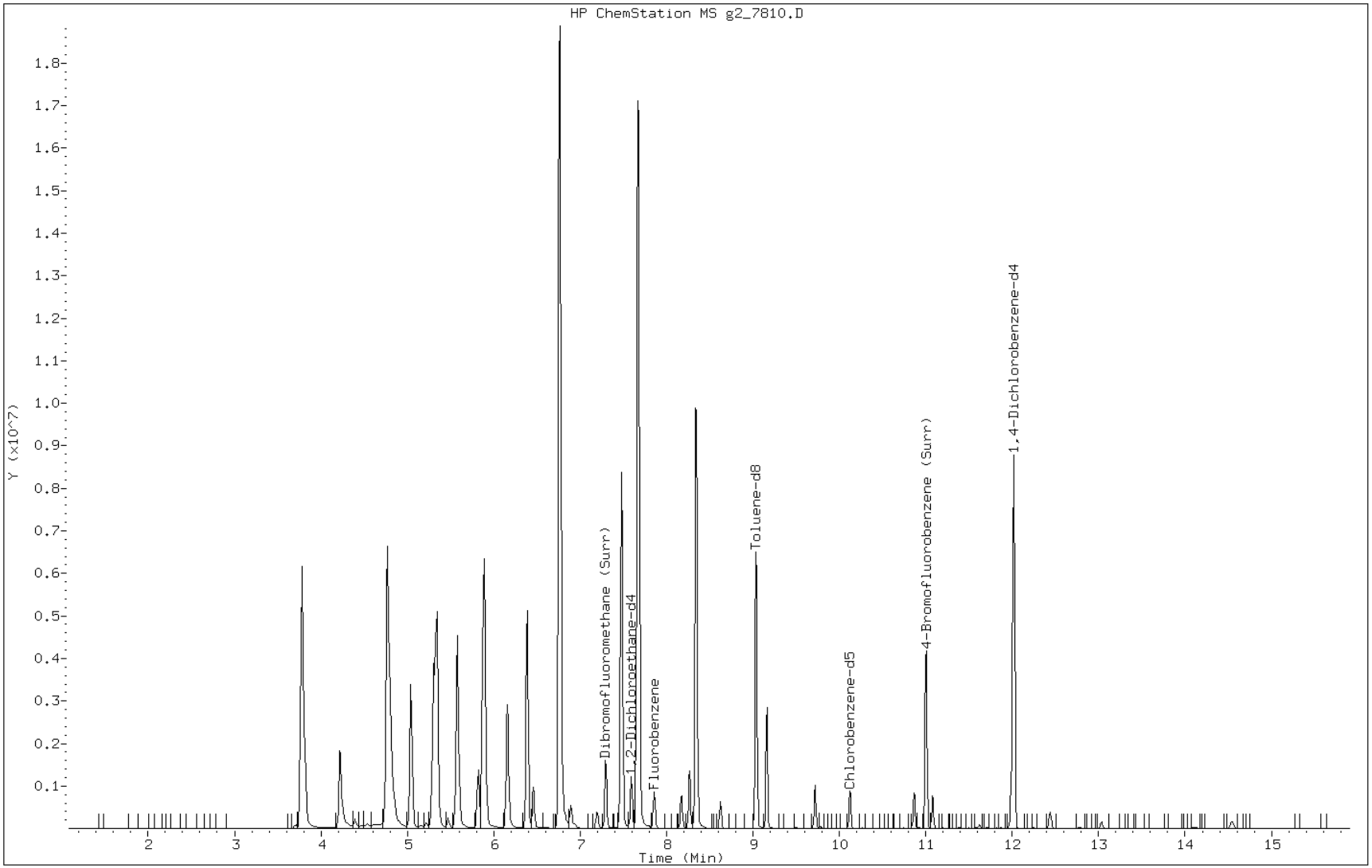
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: g2_7810.D

Date: 28-NOV-2010 15:42

Client ID: Instrument: GCMS2.i

Sample Info: IC,,S60 Operator: ILCZYSZD



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 35665

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2010 19:29 Calibration End Date: 10/12/2010 21:30 Calibration ID: 3308

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-35665/2	ms4739.D
Level 2	IC 280-35665/3	ms4740.D
Level 3	IC 280-35665/4	ms4741.D
Level 4	IC 280-35665/5	ms4742.D
Level 5	IC 280-35665/6	ms4743.D
Level 6	IC 280-35665/7	ms4744.D
Level 7	IC 280-35665/8	ms4745.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethene, Total	0.3053 0.3024	0.2714 0.2921	0.2726	0.3045	0.3007	Ave		0.2927				5.1		15.0			
Xylenes, Total	2.4574 2.4749	2.3289 2.5414	2.4315	2.6927	2.6554	Ave		2.5118				5.1		15.0			
Ethanol	+++++ 0.0007	+++++ 0.0007	0.0006	0.0007	0.0007	Ave		0.0007				6.4		15.0			
Vinyl chloride	+++++ 0.3795	0.3589 0.3495	0.3350	0.4111	0.4008	Ave		0.3725				8.0		30.0			
Dichlorodifluoromethane	0.3422 0.3389	0.2779 0.3232	0.2528	0.3572	0.3516	Ave		0.3205				12.4		15.0			
Chloromethane	0.3489 0.3185	0.3019 0.3041	0.2842	0.3416	0.3353	Ave		0.3192			0.1000	7.5		15.0			
Acrolein	+++++ 0.0116	0.0092 0.0110	0.0099	0.0106	0.0115	Ave		0.0106				8.8		15.0			
Bromomethane	0.2066 0.2097	0.1800 0.2125	0.1782	0.2091	0.2093	Ave		0.2008				7.4		15.0			
Chloroethane	0.2732 0.2554	0.2331 0.2438	0.2295	0.2651	0.2619	Ave		0.2517				6.6		15.0			
Trichlorofluoromethane	0.5457 0.4817	0.4447 0.4583	0.4376	0.5068	0.4950	Ave		0.4814				7.9		15.0			
Acetone	+++++ 0.0193	0.0263 0.0182	0.0221	0.0205	0.0203	Ave		0.0211				13.6		15.0			
1,1-Dichloroethene	0.2795 0.2812	0.2391 0.2637	0.2313	0.2742	0.2682	Ave		0.2624				7.5		30.0			
Acetonitrile	+++++ 0.0080	0.0088 0.0074	0.0083	0.0084	0.0083	Ave		0.0082				5.7		15.0			
1,4-Dioxane	+++++ 0.0006	+++++ 0.0006	0.0005	0.0006	0.0006	Ave		0.0006				9.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 35665

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2010 19:29 Calibration End Date: 10/12/2010 21:30 Calibration ID: 3308

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Iodomethane	0.3278 0.3411	0.2931 0.3349	0.2894	0.3332	0.3361	Ave		0.3222				6.7		15.0			
2-Butanone (MEK)	+++++ 0.0293	0.0273 0.0282	0.0257	0.0274	0.0274	Ave		0.0276				4.3		15.0			
Propionitrile	+++++ 0.0098	0.0086 0.0090	0.0088	0.0100	0.0098	Ave		0.0093				6.4		15.0			
Tert-butyl alcohol (2-methyl-2-propanol)	+++++ 0.0044	0.0036 0.0045	0.0037	0.0038	0.0040	Ave		0.0040				9.4		15.0			
Methylene Chloride	+++++ 0.2343	0.3195 0.2245	0.2704	0.2601	0.2460	Ave		0.2591				13.1		15.0			
Acrylonitrile	0.0233 0.0269	0.0233 0.0258	0.0247	0.0272	0.0272	Ave		0.0255				6.8		15.0			
trans-1,2-Dichloroethene	0.3292 0.3127	0.2799 0.3003	0.2816	0.3147	0.3111	Ave		0.3042				6.0		15.0			
Isopropyl ether	0.1583 0.1811	0.1577 0.1670	0.1656	0.1824	0.1832	Ave		0.1707				6.6		15.0			
1,1-Dichloroethane	0.5785 0.5475	0.5283 0.5157	0.5155	0.5746	0.5590	Ave		0.5456			0.1000	4.9		15.0			
Chloroprene	0.5121 0.6254	0.4877 0.5740	0.5016	0.6008	0.6036	Ave		0.5579				10.1		15.0			
cis-1,2-Dichloroethene	0.2814 0.2921	0.2628 0.2840	0.2635	0.2942	0.2903	Ave		0.2812				4.7		15.0			
2,2-Dichloropropane	0.3541 0.4286	0.3227 0.4200	0.3316	0.3935	0.4011	Ave		0.3788				11.2		15.0			
Methacrylonitrile	+++++ 0.0513	0.0464 0.0476	0.0479	0.0527	0.0524	Ave		0.0497				5.5		15.0			
Chlorobromomethane	0.0752 0.0862	0.0784 0.0868	0.0778	0.0840	0.0840	Ave		0.0818				5.6		15.0			
Chloroform	0.4887 0.4523	0.4358 0.4355	0.4256	0.4670	0.4617	Ave		0.4524				4.9		30.0			
Isobutyl alcohol	0.0020 0.0019	0.0020 0.0019	0.0019	0.0021	0.0019	Ave		0.0020				3.8		15.0			
1,1,1-Trichloroethane	0.4637 0.4667	0.3947 0.4445	0.3919	0.4516	0.4556	Ave		0.4384				7.2		15.0			
1,1-Dichloropropene	0.4768 0.4948	0.4212 0.4628	0.4261	0.4837	0.4808	Ave		0.4637				6.3		15.0			
Carbon tetrachloride	0.3886 0.4075	0.3226 0.3918	0.3267	0.3878	0.3887	Ave		0.3734				9.1		15.0			
1,2-Dichloroethane	0.2347 0.2138	0.2032 0.2064	0.2087	0.2221	0.2182	Ave		0.2153				5.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 35665

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2010 19:29 Calibration End Date: 10/12/2010 21:30 Calibration ID: 3308

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzene	1.2938 1.1847	1.1480 1.0748	1.1459	1.2320	1.2145	Ave		1.1848				6.0		15.0			
n-Butanol	+++++ 0.0017	+++++ 0.0017	0.0024	0.0018	0.0017	Lin	-0.839	0.0017							0.9998		
1,1,2-Trichloroethane	+++++ 0.1050	0.1000 0.1032	0.0963	0.1038	0.1033	Ave		0.1020				3.2		15.0			
2-Hexanone	+++++ 0.0474	0.0312 0.0457	0.0323	0.0382	0.0429	Lin	0.1581	0.0464							0.9993		
Trichloroethene	0.3100 0.3160	0.2791 0.3129	0.2801	0.3018	0.3054	Ave		0.3008				5.0		15.0			
1,2-Dichloropropane	0.2539 0.2568	0.2399 0.2484	0.2394	0.2568	0.2589	Ave		0.2506				3.3		30.0			
Dibromomethane	0.0695 0.0762	0.0684 0.0748	0.0684	0.0750	0.0739	Ave		0.0723				4.7		15.0			
Dichlorobromomethane	0.2286 0.2591	0.2181 0.2568	0.2189	0.2427	0.2474	Ave		0.2388				7.2		15.0			
cis-1,3-Dichloropropene	1.2240 1.4996	1.2233 1.6600	1.2785	1.4655	1.5167	Ave		1.4096				12.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.2639 0.3370	0.2768 0.3534	0.2905	0.3384	0.3456	Ave		0.3151				11.7		15.0			
Toluene	1.4193 1.2508	1.2406 1.1128	1.2092	1.3092	1.2944	Ave		1.2623				7.5		30.0			
trans-1,3-Dichloropropene	0.1659 0.2145	0.1528 0.2182	0.1580	0.1859	0.1973	Ave		0.1847				14.4		15.0			
Bromoform	+++++ 0.2403	0.1818 0.2902	0.1987	0.2152	0.2294	Lin1	0.0468	0.2756			0.1000				0.9907		0.9900
1,3-Dichloropropane	1.0931 1.0169	1.0472 1.0984	1.0966	1.1424	1.1095	Ave		1.0863				3.8		15.0			
Tetrachloroethene	1.3614 1.2179	1.1318 1.3373	1.1994	1.2935	1.2521	Ave		1.2562				6.4		15.0			
Chlorodibromomethane	0.5085 0.5717	0.4835 0.6519	0.4866	0.5475	0.5576	Ave		0.5439				10.8		15.0			
1,2-Dibromoethane	0.3766 0.4331	0.3806 0.4831	0.4063	0.4395	0.4411	Ave		0.4229				8.9		15.0			
1-Chlorohexane	2.1061 2.4019	1.9299 2.4808	2.1200	2.5163	2.4988	Ave		2.2934				10.3		15.0			
Chlorobenzene	3.7843 3.2241	3.4171 3.4672	3.4541	3.5908	3.5076	Ave		3.4922			0.3000	4.9		15.0			
1,1,1,2-Tetrachloroethane	0.9197 0.9719	0.8406 1.1200	0.8821	0.9683	0.9946	Ave		0.9567				9.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 35665

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2010 19:29 Calibration End Date: 10/12/2010 21:30 Calibration ID: 3308

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethylbenzene	2.2111 2.1315	2.0503 2.3010	2.0690	2.2707	2.2562	Ave		2.1843				4.6		30.0			
m-Xylene & p-Xylene	2.6048 2.5536	2.4397 2.5723	2.5204	2.7863	2.7318	Ave		2.6013				4.6		15.0			
o-Xylene	2.1627 2.3175	2.1074 2.4794	2.2538	2.5055	2.5027	Ave		2.3327				7.1		15.0			
Styrene	+++++ 3.3273	2.4470 3.5698	2.7300	3.2599	3.4241	Ave		3.1264				14.0		15.0			
Isopropylbenzene	5.4876 5.4747	5.0869 4.6635	5.2291	5.7068	5.7394	Ave		5.3411				7.1		15.0			
Cyclohexanone	0.0118 0.0108	0.0086 0.0114	0.0088	0.0095	0.0102	Ave		0.0102				12.4		15.0			
1,1,2,2-Tetrachloroethane	0.4690 0.4195	0.4446 0.4004	0.4371	0.4447	0.4375	Ave		0.4361			0.3000	4.9		15.0			
1,2,3-Trichloropropane	+++++ 0.1118	0.0996 0.1063	0.1131	0.1138	0.1101	Ave		0.1091				4.9		15.0			
N-Propylbenzene	1.5696 1.6578	1.4754 1.5654	1.4801	1.6421	1.6403	Ave		1.5758				4.8		15.0			
Bromobenzene	0.9169 0.9188	0.8996 0.9111	0.8752	0.9038	0.9128	Ave		0.9054				1.7		15.0			
1,3,5-Trimethylbenzene	4.0002 4.5552	3.9104 4.0603	4.1987	4.5858	4.7037	Ave		4.2878				7.5		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0429	+++++ 0.0468	0.0257	0.0366	0.0372	Lin1	0.0866	0.0464							0.9975		0.9900
2-Chlorotoluene	1.2502 1.2472	1.2083 1.2008	1.2013	1.2600	1.2674	Ave		1.2336				2.4		15.0			
4-Chlorotoluene	1.1183 1.1633	1.0349 1.1339	1.0749	1.1568	1.1760	Ave		1.1226				4.6		15.0			
tert-Butylbenzene	4.4294 4.8098	4.1557 4.3642	4.3540	4.8237	4.8835	Ave		4.5458				6.3		15.0			
1,2,4-Trimethylbenzene	3.7459 4.3793	3.9153 3.9668	4.0444	4.4639	4.5379	Ave		4.1505				7.4		15.0			
sec-Butylbenzene	1.2179 1.3366	1.1102 1.2777	1.1614	1.3155	1.3305	Ave		1.2500				7.1		15.0			
4-Isopropyltoluene	4.5490 5.2409	4.4694 4.5922	4.7210	5.3001	5.3790	Ave		4.8931				8.1		15.0			
1,3-Dichlorobenzene	2.0294 1.9574	1.8535 1.9106	1.8824	1.9748	1.9949	Ave		1.9433				3.3		15.0			
1,4-Dichlorobenzene	1.8413 1.7931	1.7624 1.7531	1.7413	1.8166	1.8138	Ave		1.7888				2.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 35665

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2010 19:29 Calibration End Date: 10/12/2010 21:30 Calibration ID: 3308

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	+++++ 0.8589	0.7293 0.8715	0.7660	0.8341	0.8321	Ave		0.8153				6.8		15.0			
n-Butylbenzene	4.3217 4.9119	4.1622 4.2955	4.3559	4.9924	5.1046	Ave		4.5920				8.6		15.0			
1,2-Dichlorobenzene	1.5646 1.4469	1.3783 1.4335	1.3919	1.4709	1.4810	Ave		1.4524				4.3		15.0			
Naphthalene	+++++ 0.9462	0.7307 1.0263	0.9223	0.8205	0.8530	Ave		0.8832				11.8		15.0			
Hexachlorobutadiene	0.8800 0.7896	0.7408 0.7485	0.7550	0.8264	0.8131	Ave		0.7933				6.4		15.0			
1,2,3-Trichlorobenzene	0.5935 0.6414	0.5685 0.6453	0.5813	0.6215	0.6242	Ave		0.6108				4.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 35665

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2010 19:29 Calibration End Date: 10/12/2010 21:30 Calibration ID: 3308

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-35665/2	ms4739.D
Level 2	IC 280-35665/3	ms4740.D
Level 3	IC 280-35665/4	ms4741.D
Level 4	IC 280-35665/5	ms4742.D
Level 5	IC 280-35665/6	ms4743.D
Level 6	IC 280-35665/7	ms4744.D
Level 7	IC 280-35665/8	ms4745.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethene, Total	FB	Ave	31400 3451253	97587 7006920	198245	539867	1096852	0.600 60.0	2.00 120	4.00	10.0	20.0
Xylenes, Total	CBZ	Ave	72354 9135320	242110 17782392	504472	1388974	2879443	0.900 90.0	3.00 180	6.00	15.0	30.0
Ethanol	FB	Ave	+++++ 198936	+++++ 407776	11397	32752	66359	+++++ 1500	+++++ 3000	100	250	500
Vinyl chloride	FB	Ave	+++++ 2165959	64541 4191240	121821	364450	731017	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dichlorodifluoromethane	FB	Ave	17594 1934212	49969 3876623	91932	316692	641218	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloromethane	FB	Ave	17940 1817489	54289 3646688	103346	302831	611567	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Acrolein	FB	Ave	+++++ 662816	16501 1321779	36159	94376	208984	+++++ 300	10.0 600	20.0	50.0	100
Bromomethane	FB	Ave	10622 1196806	32371 2548923	64803	185376	381666	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroethane	FB	Ave	14050 1457860	41915 2923267	83466	235058	477670	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	28062 2749287	79956 5495816	159129	449284	902699	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Acetone	FB	Ave	+++++ 439536	18914 872339	32096	72535	147748	+++++ 120	4.00 240	8.00	20.0	40.0
1,1-Dichloroethene	FB	Ave	14370 1604633	42989 3161929	84120	243118	489212	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Acetonitrile	FB	Ave	+++++ 454768	15849 888729	30152	74491	151119	+++++ 300	10.0 600	20.0	50.0	100
1,4-Dioxane	FB	Ave	+++++ 168480	+++++ 345829	8599	24498	54195	+++++ 1500	+++++ 3000	100	250	500
Iodomethane	FB	Ave	16858 1946800	52696 4016255	105254	295454	613029	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 35665

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2010 19:29 Calibration End Date: 10/12/2010 21:30 Calibration ID: 3308

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Butanone (MEK)	FB	Ave	+++++ 669141	19618 1352652	37447	97250	200113	+++++ 120	4.00 240	8.00	20.0	40.0
Propionitrile	FB	Ave	+++++ 559675	15522 1076163	31905	88257	178806	+++++ 300	10.0 600	20.0	50.0	100
Tert-butyl alcohol (2-methyl-2-propanol)	FB	Ave	+++++ 496965	12854 1076795	26650	66997	146807	+++++ 600	20.0 1200	40.0	100	200
Methylene Chloride	FB	Ave	+++++ 1337390	57448 2692186	98330	230584	448570	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acrylonitrile	FB	Ave	11971 1535152	41882 3099993	90007	241124	495207	3.00 300	10.0 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	16929 1784494	50333 3601008	102411	278993	567376	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	40692 5166914	141790 10012307	301128	808490	1670622	1.50 150	5.00 300	10.0	25.0	50.0
1,1-Dichloroethane	FB	Ave	29749 3124822	94988 6184959	187465	509407	1019447	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroprene	FB	Ave	26330 3569225	87690 6883701	182420	532642	1100847	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	14471 1666759	47254 3405912	95834	260874	529476	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2,2-Dichloropropane	FB	Ave	18208 2446316	58018 5036942	120609	348910	731559	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Methacrylonitrile	FB	Ave	+++++ 2928715	83479 5708881	174042	466883	955186	+++++ 300	10.0 600	20.0	50.0	100
Chlorobromomethane	FB	Ave	3868 491743	14099 1040715	28289	74434	153189	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	25128 2581544	78362 5223329	154773	414028	842116	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	2043 217547	7173 459983	14102	37134	68310	6.00 600	20.0 1200	40.0	100	200
1,1,1-Trichloroethane	FB	Ave	23846 2663555	70979 5330243	142536	400369	830838	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	24516 2824103	75734 5550105	154955	428856	876929	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	19980 2325429	58001 4698702	118796	343838	708926	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Ave	12070 1220287	36547 2475546	75901	196906	397910	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Benzene	FB	Ave	66529 6761006	206424 12890075	416753	1092322	2214963	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butanol	FB	Lin	+++++ 293681	+++++ 618004	26128	48237	92755	+++++ 900	+++++ 1800	60.0	150	300

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 35665

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2010 19:29 Calibration End Date: 10/12/2010 21:30 Calibration ID: 3308

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloroethane	FB	Ave	+++++ 599527	17989 1237635	35030	92052	188380	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Hexanone	FB	Lin	+++++ 1082252	22470 2190869	47044	135340	313248	+++++ 120	4.00 240	8.00	20.0	40.0
Trichloroethene	FB	Ave	15940 1803597	50184 3752941	101879	267537	556917	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	13056 1465768	43143 2978892	87081	227644	472221	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	3572 434853	12298 897011	24861	66456	134848	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Dichlorobromomethane	FB	Ave	11753 1478593	39219 3079663	79615	215153	451124	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBZ	Ave	12013 1845101	42391 3871680	88415	251974	548207	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	10361 1658744	38368 3297192	80369	232746	499598	1.20 120	4.00 240	8.00	20.0	40.0
Toluene	FB	Ave	72983 7138305	223071 13345938	439759	1160706	2360668	0.300 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	8530 1224231	27476 2616378	57462	164851	359847	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromoform	CBZ	Lin1	+++++ 295652	6300 676912	13739	37009	82915	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichloropropane	CBZ	Ave	10728 1251146	36287 2561958	75838	196428	401014	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	13361 1498448	39218 3119171	82950	222411	452562	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chlorodibromomethane	CBZ	Ave	4991 703428	16754 1520396	33650	94135	201529	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	3696 532903	13190 1126680	28100	75564	159435	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	20670 2955317	66876 5786312	146613	432652	903180	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	37141 3966907	118411 8086912	238874	617414	1267817	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	9026 1195821	29130 2612325	61002	166485	359503	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	21701 2622609	71049 5366846	143088	390420	815494	0.300 30.0	1.00 60.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	51128 6283898	169082 11999459	348605	958173	1974822	0.600 60.0	2.00 120	4.00	10.0	20.0
o-Xylene	CBZ	Ave	21226 2851422	73028 5782933	155867	430801	904621	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 35665

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2010 19:29 Calibration End Date: 10/12/2010 21:30 Calibration ID: 3308

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBZ	Ave	+++++ 4093945	84795 8326170	188801	560509	1237638	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	59970 7888552	202322 14674200	432414	1223738	2531493	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexanone	CBZ	Ave	4620 532037	11865 1066986	24223	65496	147861	12.0 1200	40.0 2400	80.0	200	400
1,1,2,2-Tetrachloroethane	DCB	Ave	5125 604467	17685 1260044	36146	95356	192971	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 161123	3963 334615	9350	24405	48547	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
N-Propylbenzene	DCB	Ave	17153 2388816	58683 4925614	122394	352122	723509	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	10020 1323926	35779 2866780	72371	193799	402612	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	43715 6563668	155530 12776131	347207	983349	2074694	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Lin1	+++++ 61792	+++++ 147410	2126	7847	16424	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	13662 1797046	48060 3778521	99339	270182	559014	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	12221 1676287	41161 3567802	88886	248060	518706	0.300 30.0	1.00 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	48406 6930565	165287 13732202	360050	1034365	2153988	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	40936 6310154	155723 12481917	334449	957223	2001546	0.300 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	13309 1925998	44155 4020423	96044	282092	586854	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	49713 7551659	177763 14449709	390404	1136532	2372533	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	22178 2820449	73720 6012006	155666	423469	879889	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	20122 2583652	70097 5516429	143999	389540	800005	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 1237643	29006 2742346	63340	178855	367001	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	47229 7077582	165547 13516172	360211	1070545	2251487	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	17098 2084819	54820 4510509	115102	315415	653231	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Naphthalene	DCB	Ave	+++++ 1363385	29061 3229340	76272	175937	376240	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 35665

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/12/2010 19:29 Calibration End Date: 10/12/2010 21:30 Calibration ID: 3308

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Hexachlorobutadiene	DCB	Ave	9617 1137751	29464 2355324	62432	177199	358632	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	6486 924215	22612 2030480	48071	133262	275309	0.300 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\ms4739.D
Lab Smp Id: IC
Inj Date : 12-OCT-2010 19:29
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M0.3
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\8260B-H2OAFC.m
Meth Date : 13-Oct-2010 11:45 dobranskym Quant Type: ISTD
Cal Date : 13-OCT-2010 00:52 Cal File: ms4755.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	8.368	8.368	(1.000)	2142518	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	408932	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.558	12.543	(1.000)	455344	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				31400	0.60000	0.624918(a)
M	2 Xylene (total)	106				72354	0.90000	0.878942(a)
M	3 Trihalomethane (total)	100				41872	1.20000	0.891734
M	4 1,3-Dichloropropene (total)	100				20543	0.60000	0.529998
	5 dichlorodifluoromethane	85	4.569	4.569	(0.546)	17594	0.30000	0.320232(a)
	7 Chloromethane	50	4.820	4.806	(0.576)	17940	0.30000	0.327900(a)
	8 Vinyl Chloride	62	Compound Not Detected.					
	10 Bromomethane	94	5.365	5.351	(0.641)	10622	0.30000	0.308668(a)
	11 Chloroethane	64	5.435	5.421	(0.650)	14050	0.30000	0.325636(a)
	14 Trichlorofluoromethane	101	5.686	5.686	(0.680)	28062	0.30000	0.340106(a)
	13 Ethanol	45	Compound Not Detected.					
	18 Acrolein	56	Compound Not Detected.					
	22 Acetone	43	6.105	6.105	(0.730)	10704	1.20000	2.96192(a)
	23 1,1-Dichloroethene	96	6.147	6.147	(0.735)	14370	0.30000	0.319450(a)
	24 Iodomethane	142	6.329	6.329	(0.756)	16858	0.30000	0.305214(a)
	25 Acetonitrile	41	6.329	6.315	(0.756)	6129	3.00000	4.36322(a)
	29 tert-Butyl alcohol	59	6.440	6.440	(0.770)	3785	6.00000	5.54731(aQ)
	30 Methylene Chloride	84	6.496	6.496	(0.776)	29933	0.30000	0.673958(a)
	31 Acrylonitrile	53	6.636	6.636	(0.793)	11971	3.00000	2.74013(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.805)	16929	0.30000	0.324670(a)
36 Isopropyl ether	87	6.999	6.999	(0.836)	40692	1.50000	1.39042(aQ)
37 1,1-Dichloroethane	63	7.055	7.055	(0.843)	29749	0.30000	0.318124(a)
38 Chloroprene	53	7.125	7.125	(0.851)	26330	0.30000	0.275360(a)
41 2-Butanone	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	7.488	7.488	(0.895)	14471	0.30000	0.300248(a)
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	7.516	7.516	(0.898)	18208	0.30000	0.280427(a)
45 Methacrylonitrile	41	7.600	7.600	(0.908)	23645	3.00000	2.77533(a)
46 Bromochloromethane	128	7.683	7.683	(0.918)	3868	0.30000	0.276018(aQ)
47 Chloroform	83	7.683	7.683	(0.918)	25128	0.30000	0.324070(a)
51 1,1,1-Trichloroethane	97	7.921	7.921	(0.947)	23846	0.30000	0.317352(a)
53 1,1-Dichloropropene	75	8.019	8.019	(0.958)	24516	0.30000	0.308429(a)
54 Carbon Tetrachloride	117	8.061	8.060	(0.963)	19980	0.30000	0.312208(a)
57 1,2-Dichloroethane	62	8.172	8.172	(0.977)	12070	0.30000	0.327054(a)
58 Benzene	78	8.200	8.200	(0.980)	66529	0.30000	0.327598(a)
59 n-Butanol	56	8.354	8.353	(0.998)	14680	15.0000	39.7727(aQ)
61 Trichloroethene	130	8.633	8.633	(1.032)	15940	0.30000	0.309212(a)
64 1,2-Dichloropropane	63	8.801	8.801	(1.052)	13056	0.30000	0.303958(a)
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	8.898	8.898	(1.063)	3572	0.30000	0.288238(a)
68 Bromodichloromethane	83	8.968	8.968	(1.072)	11753	0.30000	0.287161(a)
71 cis-1,3-Dichloropropene	75	9.276	9.262	(0.874)	12013	0.30000	0.260496(a)
72 4-Methyl-2-pentanone	43	9.317	9.317	(0.878)	10361	1.20000	1.00512(a)
74 Toluene	91	9.555	9.555	(1.142)	72983	0.30000	0.337314(a)
76 trans-1,3-Dichloropropene	75	9.639	9.639	(1.152)	8530	0.30000	0.269502(a)
77 1,1,2-Trichloroethane	97	Compound Not Detected.					
78 2-Hexanone	43	Compound Not Detected.					
79 1,3-Dichloropropane	76	9.946	9.946	(0.937)	10728	0.30000	0.301879(a)
80 Tetrachloroethene	164	9.988	9.988	(0.941)	13361	0.30000	0.325119(a)
81 Dibromochloromethane	129	10.155	10.155	(0.957)	4991	0.30000	0.280504(a)
83 1,2-Dibromoethane	107	10.295	10.281	(0.970)	3696	0.30000	0.267150(a)
84 1-Chlorohexane	91	10.519	10.505	(0.991)	20670	0.30000	0.275499(a)
86 Chlorobenzene	112	10.644	10.631	(1.003)	37141	0.30000	0.325100(a)
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	9026	0.30000	0.288377(a)
87 Ethylbenzene	106	10.672	10.673	(1.005)	21701	0.30000	0.303692(aQ)
89 m and p-Xylene	106	10.756	10.742	(1.013)	51128	0.60000	0.600803(Q)
90 o-Xylene	106	11.077	11.077	(1.043)	21226	0.30000	0.278139(a)
91 Styrene	104	11.077	11.078	(1.043)	21804	0.30000	0.213185(a)
92 Bromoform	173	Compound Not Detected.					
93 isopropyl benzene	105	11.357	11.356	(0.904)	59970	0.30000	0.308227(a)
95 Cyclohexanone	55	11.482	11.482	(1.082)	4620	12.0000	13.9072(a)
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.920)	5125	0.30000	0.322594(a)
99 1,2,3-Trichloropropane	110	11.636	11.636	(0.927)	1148	0.30000	0.288796(aQ)
101 Bromobenzene	156	11.706	11.706	(0.932)	10020	0.30000	0.303794(a)
100 n-Propylbenzene	120	11.692	11.692	(0.931)	17153	0.30000	0.298815(aQ)
103 2-Chlorotoluene	126	11.831	11.831	(0.942)	13662	0.30000	0.304028(aQ)
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.940)	43715	0.30000	0.279879(a)
104 4-Chlorotoluene	126	11.901	11.901	(0.948)	12221	0.30000	0.298854(a)
105 tert-Butylbenzene	119	12.125	12.125	(0.966)	48406	0.30000	0.292323(a)
106 1,2,4-Trimethylbenzene	105	12.153	12.153	(0.968)	40936	0.30000	0.270755(a)
107 sec-Butylbenzene	134	12.320	12.320	(0.981)	13309	0.30000	0.292290(aQ)
108 4-Isopropyltoluene	119	12.418	12.418	(0.989)	49713	0.30000	0.278905(a)
109 1,3-Dichlorobenzene	146	12.502	12.502	(0.996)	22178	0.30000	0.313295

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
111 1,4-dichlorobenzene	146	12.572	12.572	(1.001)	20122	0.30000	0.308802
113 n-Butylbenzene	91	12.809	12.809	(1.020)	47229	0.30000	0.282341(a)
114 1,2-Dichlorobenzene	146	12.977	12.963	(1.033)	17098	0.30000	0.323162
115 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
117 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
118 Hexachlorobutadiene	225	15.044	15.030	(1.198)	9617	0.30000	0.332776(a)
119 Naphthalene	128	Compound Not Detected.					
120 1,2,3-Trichlorobenzene	180	15.644	15.630	(1.246)	6486	0.30000	0.291501(a)

QC Flag Legend

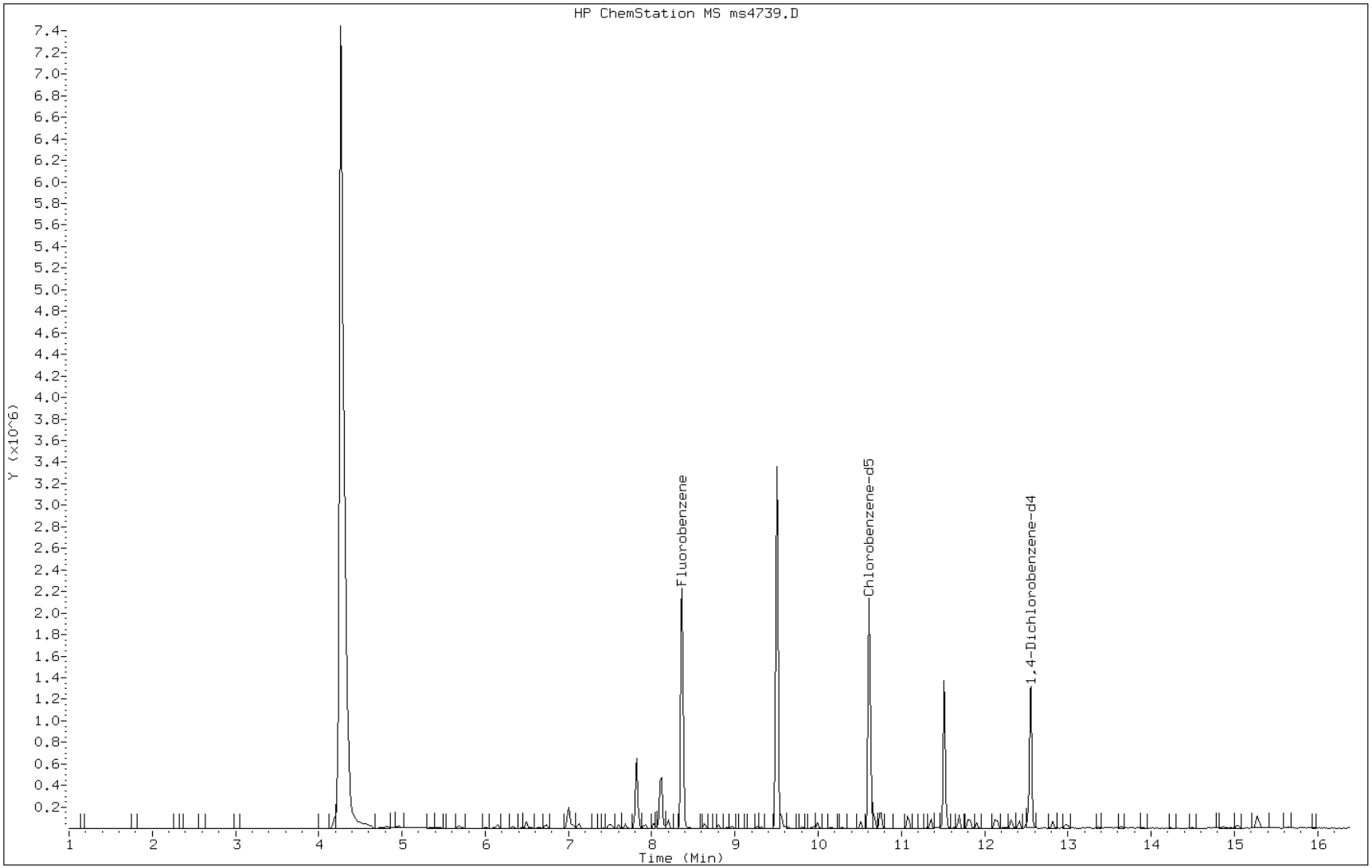
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms4739.D

Date: 12-OCT-2010 19:29

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M0.3 Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\ms4740.D
Lab Smp Id: IC
Inj Date : 12-OCT-2010 19:49
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\8260B-H2OAFC.m
Meth Date : 13-Oct-2010 11:45 dobranskym Quant Type: ISTD
Cal Date : 13-OCT-2010 00:52 Cal File: ms4755.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	8.368	8.368	(1.000)	2247677	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	433154	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	497168	12.5000	(Q)
M 1 1,2-Dichloroethene (total)	96				97587	2.00000	1.85471
M 2 Xylene (total)	106				242110	3.00000	2.77919
M 3 Trihalomethane (total)	100				140635	4.00000	4.00976
M 4 1,3-Dichloropropene (total)	100				69867	2.00000	1.69530
5 dichlorodifluoromethane	85	4.569	4.569	(0.546)	49969	1.00000	0.866945(a)
7 Chloromethane	50	4.806	4.806	(0.574)	54289	1.00000	0.945849(a)
8 Vinyl Chloride	62	4.960	4.960	(0.593)	64541	1.00000	0.963658(a)
10 Bromomethane	94	5.365	5.351	(0.641)	32371	1.00000	0.896669(a)
11 Chloroethane	64	5.435	5.421	(0.650)	41915	1.00000	0.926010(a)
14 Trichlorofluoromethane	101	5.686	5.686	(0.680)	79956	1.00000	0.923714(a)
13 Ethanol	45	Compound Not Detected.					
18 Acrolein	56	6.007	5.993	(0.718)	16501	10.0000	8.62220(a)
22 Acetone	43	6.105	6.105	(0.730)	18914	4.00000	4.98886(a)
23 1,1-Dichloroethene	96	6.147	6.147	(0.735)	42989	1.00000	0.910948(a)
24 Iodomethane	142	6.328	6.329	(0.756)	52696	1.00000	0.909426(a)
25 Acetonitrile	41	6.328	6.315	(0.756)	15849	10.0000	10.7550(a)
29 tert-Butyl alcohol	59	6.440	6.440	(0.770)	12854	20.0000	17.9575(aQ)
30 Methylene Chloride	84	6.496	6.496	(0.776)	57448	1.00000	1.23296
31 Acrylonitrile	53	6.636	6.636	(0.793)	41882	10.0000	9.13816(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.805)	50333	1.00000	0.920141
36 Isopropyl ether	87	6.999	6.999	(0.836)	141790	5.00000	4.61822(aQ)
37 1,1-Dichloroethane	63	7.055	7.055	(0.843)	94988	1.00000	0.968241(a)
38 Chloroprene	53	7.125	7.125	(0.851)	87690	1.00000	0.874160(a)
41 2-Butanone	43	7.418	7.418	(0.887)	19618	4.00000	3.95820(a)
43 cis-1,2-Dichloroethene	96	7.488	7.488	(0.895)	47254	1.00000	0.934567(a)
42 Propionitrile	54	7.474	7.460	(0.893)	15522	10.0000	9.25805(a)
44 2,2-Dichloropropane	77	7.516	7.516	(0.898)	58018	1.00000	0.851748(a)
45 Methacrylonitrile	41	7.599	7.600	(0.908)	83479	10.0000	9.33992(a)
46 Bromochloromethane	128	7.683	7.683	(0.918)	14099	1.00000	0.959023(a)
47 Chloroform	83	7.683	7.683	(0.918)	78362	1.00000	0.963334(a)
51 1,1,1-Trichloroethane	97	7.921	7.921	(0.947)	70979	1.00000	0.900421(a)
50 Isobutanol	41	7.865	7.865	(0.940)	7173	20.0000	20.3666(aQ)
53 1,1-Dichloropropene	75	8.018	8.019	(0.958)	75734	1.00000	0.908212(a)
54 Carbon Tetrachloride	117	8.060	8.060	(0.963)	58001	1.00000	0.863922(a)
57 1,2-Dichloroethane	62	8.172	8.172	(0.977)	36547	1.00000	0.943962(a)
58 Benzene	78	8.200	8.200	(0.980)	206424	1.00000	0.968903(a)
59 n-Butanol	56	8.354	8.353	(0.998)	19116	30.0000	51.8969
61 Trichloroethene	130	8.633	8.633	(1.032)	50184	1.00000	0.927948(a)
64 1,2-Dichloropropane	63	8.801	8.801	(1.052)	43143	1.00000	0.957426(a)
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	8.898	8.898	(1.063)	12298	1.00000	0.945944(a)
68 Bromodichloromethane	83	8.968	8.968	(1.072)	39219	1.00000	0.913406(a)
71 cis-1,3-Dichloropropene	75	9.275	9.262	(0.874)	42391	1.00000	0.867825(a)
72 4-Methyl-2-pentanone	43	9.317	9.317	(0.878)	38368	4.00000	3.51395(a)
74 Toluene	91	9.555	9.555	(1.142)	223071	1.00000	0.982758(a)
76 trans-1,3-Dichloropropene	75	9.638	9.639	(1.152)	27476	1.00000	0.827480(a)
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.172)	17989	1.00000	0.981235(a)
78 2-Hexanone	43	9.918	9.904	(1.185)	22470	4.00000	4.66676(a)
79 1,3-Dichloropropane	76	9.946	9.946	(0.937)	36287	1.00000	0.963993(a)
80 Tetrachloroethene	164	9.988	9.988	(0.941)	39218	1.00000	0.900943(a)
81 Dibromochloromethane	129	10.155	10.155	(0.957)	16754	1.00000	0.888951(a)
83 1,2-Dibromoethane	107	10.281	10.281	(0.968)	13190	1.00000	0.900070(a)
84 1-Chlorohexane	91	10.518	10.505	(0.991)	66876	1.00000	0.841508(a)
86 Chlorobenzene	112	10.644	10.631	(1.003)	118411	1.00000	0.978506(a)
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	29130	1.00000	0.878648(a)
87 Ethylbenzene	106	10.672	10.673	(1.005)	71049	1.00000	0.938687(aQ)
89 m and p-Xylene	106	10.756	10.742	(1.013)	169082	2.00000	1.87577(Q)
90 o-Xylene	106	11.077	11.077	(1.043)	73028	1.00000	0.903425
91 Styrene	104	11.077	11.078	(1.043)	84795	1.00000	0.782708(a)
92 Bromoform	173	11.300	11.301	(1.064)	6300	1.00000	1.24407
93 isopropyl benzene	105	11.356	11.356	(0.905)	202322	1.00000	0.952393(a)
95 Cyclohexanone	55	11.482	11.482	(1.082)	11865	40.0000	33.7191
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	17685	1.00000	1.01954
99 1,2,3-Trichloropropane	110	11.636	11.636	(0.928)	3963	1.00000	0.913082(aQ)
101 Bromobenzene	156	11.705	11.706	(0.933)	35779	1.00000	0.993518(a)
100 n-Propylbenzene	120	11.692	11.692	(0.932)	58683	1.00000	0.936292(aQ)
103 2-Chlorotoluene	126	11.831	11.831	(0.943)	48060	1.00000	0.979534(a)
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	155530	1.00000	0.911992(a)
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	41161	1.00000	0.921879(a)
105 tert-Butylbenzene	119	12.124	12.125	(0.967)	165287	1.00000	0.914195(a)
106 1,2,4-Trimethylbenzene	105	12.152	12.153	(0.969)	155723	1.00000	0.943322(a)
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	44155	1.00000	0.888147(aQ)
108 4-Isopropyltoluene	119	12.418	12.418	(0.990)	177763	1.00000	0.913407(a)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	12.502	12.502	(0.997)	73720	1.00000	0.953790
111 1,4-dichlorobenzene	146	12.571	12.572	(1.002)	70097	1.00000	0.985246
113 n-Butylbenzene	91	12.809	12.809	(1.021)	165547	1.00000	0.906406(a)
114 1,2-Dichlorobenzene	146	12.976	12.963	(1.035)	54820	1.00000	0.948965
115 1,2-Dibromo-3-chloropropane	157	13.786	13.773	(1.099)	1001	1.00000	1.62526(aQ)
117 1,2,4-Trichlorobenzene	180	14.862	14.862	(1.185)	29006	1.00000	0.894488(a)
118 Hexachlorobutadiene	225	15.043	15.030	(1.199)	29464	1.00000	0.933772(a)
119 Naphthalene	128	15.281	15.267	(1.218)	29061	1.00000	0.827327(a)
120 1,2,3-Trichlorobenzene	180	15.644	15.630	(1.247)	22612	1.00000	0.930762(a)

QC Flag Legend

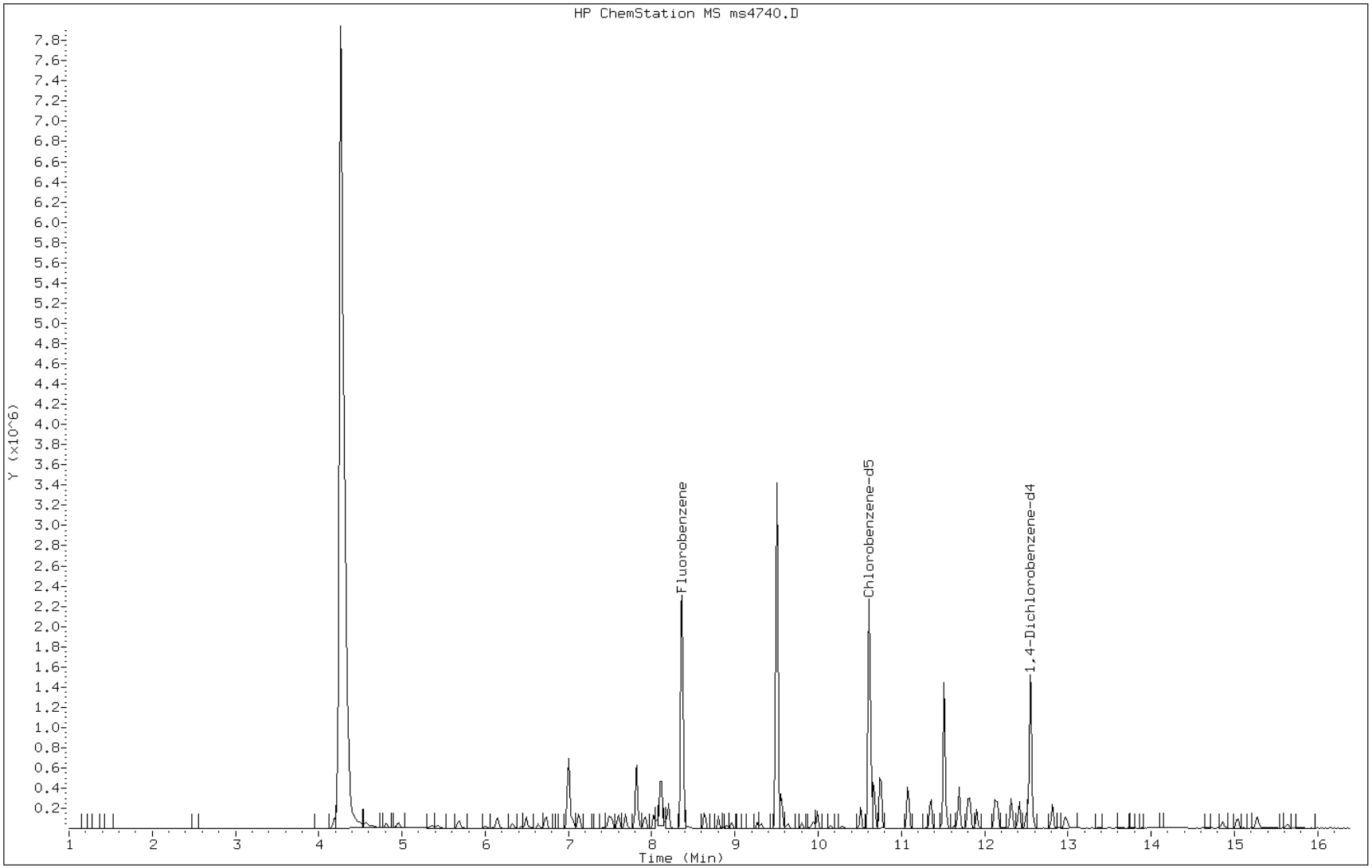
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms4740.D

Date: 12-OCT-2010 19:49

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M1.0 Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\ms4741.D
Lab Smp Id: IC
Inj Date : 12-OCT-2010 20:09
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M2.0
Misc Info :
Comment :
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Meth Date : 13-Oct-2010 11:45 dobranskym Quant Type: ISTD
Cal Date : 13-OCT-2010 00:52 Cal File: ms4755.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	8.368	8.368	(1.000)	2272977	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	432234	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.544	12.543	(1.000)	516841	12.5000	(Q)
M 1 1,2-Dichloroethene (total)	96				198245	4.00000	3.72561
M 2 Xylene (total)	106				504472	6.00000	5.80793
M 3 Trihalomethane (total)	100				281777	8.00000	7.53041
M 4 1,3-Dichloropropene (total)	100				145877	4.00000	3.52517
5 dichlorodifluoromethane	85	4.569	4.569	(0.546)	91932	2.00000	1.57724(a)
7 Chloromethane	50	4.820	4.806	(0.576)	103346	2.00000	1.78050(a)
8 Vinyl Chloride	62	4.960	4.960	(0.593)	121821	2.00000	1.79866
10 Bromomethane	94	5.365	5.351	(0.641)	64803	2.00000	1.77505(a)
11 Chloroethane	64	5.435	5.421	(0.650)	83466	2.00000	1.82345(a)
14 Trichlorofluoromethane	101	5.686	5.686	(0.680)	159129	2.00000	1.81792(a)
13 Ethanol	45	5.700	5.686	(0.681)	11397	100.000	90.2988(a)
18 Acrolein	56	6.008	5.993	(0.718)	36159	20.0000	18.6837(a)
22 Acetone	43	6.105	6.105	(0.730)	32096	8.00000	8.37158(a)
23 1,1-Dichloroethene	96	6.147	6.147	(0.735)	84120	2.00000	1.76268
24 Iodomethane	142	6.329	6.329	(0.756)	105254	2.00000	1.79625
25 Acetonitrile	41	6.329	6.315	(0.756)	30152	20.0000	20.2331
29 tert-Butyl alcohol	59	6.440	6.440	(0.770)	26650	40.0000	36.8165(a)
30 Methylene Chloride	84	6.496	6.496	(0.776)	98330	2.00000	2.08688
31 Acrylonitrile	53	6.636	6.636	(0.793)	90007	20.0000	19.4199(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.805)	102411	2.00000	1.85134
36 Isopropyl ether	87	6.999	6.999	(0.836)	301128	10.0000	9.69881(aQ)
37 1,1-Dichloroethane	63	7.055	7.055	(0.843)	187465	2.00000	1.88962
38 Chloroprene	53	7.125	7.125	(0.851)	182420	2.00000	1.79826
41 2-Butanone	43	7.418	7.418	(0.887)	37447	8.00000	7.47134
43 cis-1,2-Dichloroethene	96	7.488	7.488	(0.895)	95834	2.00000	1.87426
42 Propionitrile	54	7.474	7.460	(0.893)	31905	20.0000	18.8178
44 2,2-Dichloropropane	77	7.516	7.516	(0.898)	120609	2.00000	1.75092(a)
45 Methacrylonitrile	41	7.600	7.600	(0.908)	174042	20.0000	19.2557
46 Bromochloromethane	128	7.683	7.683	(0.918)	28289	2.00000	1.90282
47 Chloroform	83	7.683	7.683	(0.918)	154773	2.00000	1.88150
51 1,1,1-Trichloroethane	97	7.921	7.921	(0.947)	142536	2.00000	1.78805
50 Isobutanol	41	7.865	7.865	(0.940)	14102	40.0000	39.5946(aQ)
53 1,1-Dichloropropene	75	8.019	8.019	(0.958)	154955	2.00000	1.83756
54 Carbon Tetrachloride	117	8.061	8.060	(0.963)	118796	2.00000	1.74976
57 1,2-Dichloroethane	62	8.172	8.172	(0.977)	75901	2.00000	1.93860
58 Benzene	78	8.200	8.200	(0.980)	416753	2.00000	1.93436
59 n-Butanol	56	8.354	8.353	(0.998)	26128	60.0000	73.8293
61 Trichloroethene	130	8.633	8.633	(1.032)	101879	2.00000	1.86287
64 1,2-Dichloropropane	63	8.801	8.801	(1.052)	87081	2.00000	1.91098
66 1,4-Dioxane	88	8.857	8.856	(1.058)	8599	100.000	84.8388(a)
67 Dibromomethane	93	8.899	8.898	(1.063)	24861	2.00000	1.89099
68 Bromodichloromethane	83	8.968	8.968	(1.072)	79615	2.00000	1.83358
71 cis-1,3-Dichloropropene	75	9.276	9.262	(0.874)	88415	2.00000	1.81388
72 4-Methyl-2-pentanone	43	9.318	9.317	(0.878)	80369	8.00000	7.37629
74 Toluene	91	9.555	9.555	(1.142)	439759	2.00000	1.91583
76 trans-1,3-Dichloropropene	75	9.639	9.639	(1.152)	57462	2.00000	1.71129
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.172)	35030	2.00000	1.88949
78 2-Hexanone	43	9.918	9.904	(1.185)	47044	8.00000	7.54638
79 1,3-Dichloropropane	76	9.946	9.946	(0.937)	75838	2.00000	2.01898
80 Tetrachloroethene	164	9.988	9.988	(0.941)	82950	2.00000	1.90964
81 Dibromochloromethane	129	10.155	10.155	(0.957)	33650	2.00000	1.78924
83 1,2-Dibromoethane	107	10.281	10.281	(0.968)	28100	2.00000	1.92159
84 1-Chlorohexane	91	10.505	10.505	(0.989)	146613	2.00000	1.84877
86 Chlorobenzene	112	10.644	10.631	(1.003)	238874	2.00000	1.97817
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	61002	2.00000	1.84392
87 Ethylbenzene	106	10.672	10.673	(1.005)	143088	2.00000	1.89448(Q)
89 m and p-Xylene	106	10.742	10.742	(1.012)	348605	4.00000	3.87560(Q)
90 o-Xylene	106	11.077	11.077	(1.043)	155867	2.00000	1.93232
91 Styrene	104	11.077	11.078	(1.043)	188801	2.00000	1.74645
92 Bromoform	173	11.301	11.301	(1.064)	13739	2.00000	2.02609
93 isopropyl benzene	105	11.357	11.356	(0.905)	432414	2.00000	1.95803
95 Cyclohexanone	55	11.482	11.482	(1.082)	24223	80.0000	68.9857
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	36146	2.00000	2.00450
99 1,2,3-Trichloropropane	110	11.636	11.636	(0.928)	9350	2.00000	2.07226
101 Bromobenzene	156	11.706	11.706	(0.933)	72371	2.00000	1.93312
100 n-Propylbenzene	120	11.692	11.692	(0.932)	122394	2.00000	1.87847(Q)
103 2-Chlorotoluene	126	11.831	11.831	(0.943)	99339	2.00000	1.94761
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	347207	2.00000	1.95844
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	88886	2.00000	1.91500
105 tert-Butylbenzene	119	12.125	12.125	(0.967)	360050	2.00000	1.91562
106 1,2,4-Trimethylbenzene	105	12.153	12.153	(0.969)	334449	2.00000	1.94887
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	96044	2.00000	1.85832(Q)
108 4-Isopropyltoluene	119	12.418	12.418	(0.990)	390404	2.00000	1.92967

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	12.502	12.502	(0.997)	155666	2.00000	1.93735
111 1,4-dichlorobenzene	146	12.572	12.572	(1.002)	143999	2.00000	1.94693
113 n-Butylbenzene	91	12.809	12.809	(1.021)	360211	2.00000	1.89716
114 1,2-Dichlorobenzene	146	12.963	12.963	(1.033)	115102	2.00000	1.91664
115 1,2-Dibromo-3-chloropropane	157	13.787	13.773	(1.099)	2126	2.00000	2.19108(Q)
117 1,2,4-Trichlorobenzene	180	14.862	14.862	(1.185)	63340	2.00000	1.87893
118 Hexachlorobutadiene	225	15.044	15.030	(1.199)	62432	2.00000	1.90328
119 Naphthalene	128	15.267	15.267	(1.217)	76272	2.00000	2.08871
120 1,2,3-Trichlorobenzene	180	15.644	15.630	(1.247)	48071	2.00000	1.90340

QC Flag Legend

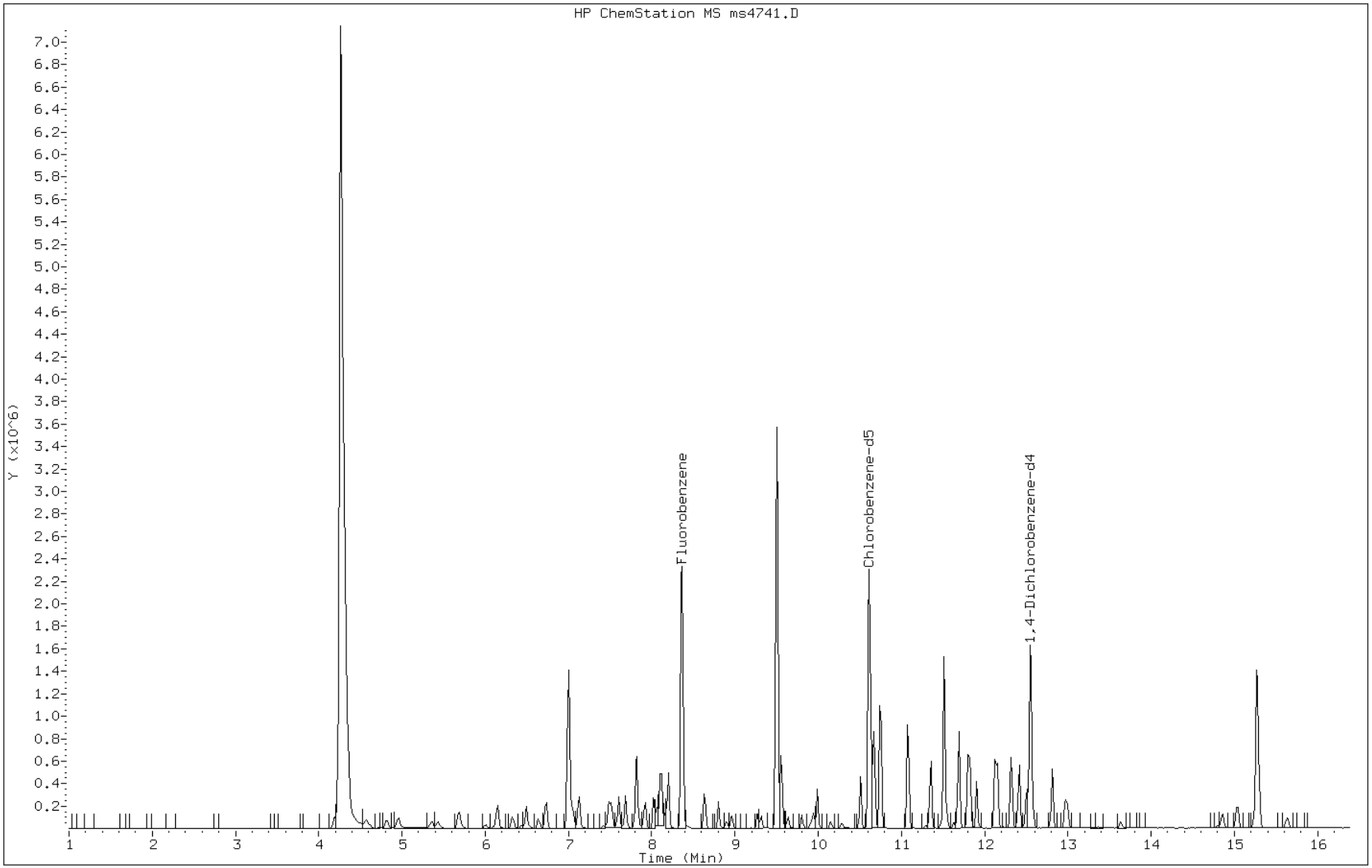
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms4741.D

Date: 12-OCT-2010 20:09

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M2.0 Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\ms4742.D
Lab Smp Id: IC
Inj Date : 12-OCT-2010 20:30
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M5.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\8260B-H2OAFC.m
Meth Date : 13-Oct-2010 11:45 dobranskym Quant Type: ISTD
Cal Date : 13-OCT-2010 00:52 Cal File: ms4755.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 60	Fluorobenzene	96	8.368	8.368	(1.000)	2216473	12.5000	
* 85	Chlorobenzene-d5	119	10.616	10.616	(1.000)	429853	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	12.544	12.543	(1.000)	536086	12.5000	(Q)
M 1	1,2-Dichloroethene (total)	96				539867	10.0000	10.4042
M 2	Xylene (total)	106				1388974	15.0000	16.0818
M 3	Trihalomethane (total)	100				760325	20.0000	19.7654
M 4	1,3-Dichloropropene (total)	100				416825	10.0000	10.2326
5	dichlorodifluoromethane	85	4.569	4.569	(0.546)	316692	5.00000	5.57185
7	Chloromethane	50	4.820	4.806	(0.576)	302831	5.00000	5.35035
8	Vinyl Chloride	62	4.960	4.960	(0.593)	364450	5.00000	5.51819
10	Bromomethane	94	5.365	5.351	(0.641)	185376	5.00000	5.20716
11	Chloroethane	64	5.435	5.421	(0.650)	235058	5.00000	5.26614
14	Trichlorofluoromethane	101	5.686	5.686	(0.680)	449284	5.00000	5.26355
13	Ethanol	45	5.686	5.686	(0.680)	32752	250.000	266.110
18	Acrolein	56	6.007	5.993	(0.718)	94376	50.0000	50.0082
22	Acetone	43	6.105	6.105	(0.730)	72535	20.0000	19.4016
23	1,1-Dichloroethene	96	6.147	6.147	(0.735)	243118	5.00000	5.22426
24	Iodomethane	142	6.329	6.329	(0.756)	295454	5.00000	5.17072
25	Acetonitrile	41	6.329	6.315	(0.756)	74491	50.0000	51.2605
29	tert-Butyl alcohol	59	6.440	6.440	(0.770)	66997	100.000	94.9148
30	Methylene Chloride	84	6.496	6.496	(0.776)	230584	5.00000	5.01850
31	Acrylonitrile	53	6.636	6.636	(0.793)	241124	50.0000	53.3511

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.805)	278993	5.00000	5.17209
36 Isopropyl ether	87	6.999	6.999	(0.836)	808490	25.0000	26.7039(Q)
37 1,1-Dichloroethane	63	7.055	7.055	(0.843)	509407	5.00000	5.26564
38 Chloroprene	53	7.125	7.125	(0.851)	532642	5.00000	5.38453
41 2-Butanone	43	7.418	7.418	(0.887)	97250	20.0000	19.8977
43 cis-1,2-Dichloroethene	96	7.488	7.488	(0.895)	260874	5.00000	5.23208
42 Propionitrile	54	7.474	7.460	(0.893)	88257	50.0000	53.3817
44 2,2-Dichloropropane	77	7.516	7.516	(0.898)	348910	5.00000	5.19437
45 Methacrylonitrile	41	7.600	7.600	(0.908)	466883	50.0000	52.9719
46 Bromochloromethane	128	7.683	7.683	(0.918)	74434	5.00000	5.13433
47 Chloroform	83	7.683	7.683	(0.918)	414028	5.00000	5.16146
51 1,1,1-Trichloroethane	97	7.921	7.921	(0.947)	400369	5.00000	5.15048
50 Isobutanol	41	7.879	7.865	(0.942)	37134	100.000	106.920
53 1,1-Dichloropropene	75	8.019	8.019	(0.958)	428856	5.00000	5.21530
54 Carbon Tetrachloride	117	8.060	8.060	(0.963)	343838	5.00000	5.19355
57 1,2-Dichloroethane	62	8.172	8.172	(0.977)	196906	5.00000	5.15743
58 Benzene	78	8.200	8.200	(0.980)	1092322	5.00000	5.19927
59 n-Butanol	56	8.354	8.353	(0.998)	48237	150.000	149.140
61 Trichloroethene	130	8.633	8.633	(1.032)	267537	5.00000	5.01665
64 1,2-Dichloropropane	63	8.801	8.801	(1.052)	227644	5.00000	5.12298
66 1,4-Dioxane	88	8.857	8.856	(1.058)	24498	250.000	247.862
67 Dibromomethane	93	8.898	8.898	(1.063)	66456	5.00000	5.18366
68 Bromodichloromethane	83	8.968	8.968	(1.072)	215153	5.00000	5.08143
71 cis-1,3-Dichloropropene	75	9.276	9.262	(0.874)	251974	5.00000	5.19800
72 4-Methyl-2-pentanone	43	9.317	9.317	(0.878)	232746	20.0000	21.4798
74 Toluene	91	9.555	9.555	(1.142)	1160706	5.00000	5.18558
76 trans-1,3-Dichloropropene	75	9.639	9.639	(1.152)	164851	5.00000	5.03463
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.172)	92052	5.00000	5.09179
78 2-Hexanone	43	9.918	9.904	(1.185)	135340	20.0000	18.4092
79 1,3-Dichloropropane	76	9.946	9.946	(0.937)	196428	5.00000	5.25834
80 Tetrachloroethene	164	9.988	9.988	(0.941)	222411	5.00000	5.14861
81 Dibromochloromethane	129	10.155	10.155	(0.957)	94135	5.00000	5.03307
83 1,2-Dibromoethane	107	10.281	10.281	(0.968)	75564	5.00000	5.19599
84 1-Chlorohexane	91	10.505	10.505	(0.989)	432652	5.00000	5.48591
86 Chlorobenzene	112	10.630	10.631	(1.001)	617414	5.00000	5.14127
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	166485	5.00000	5.06025
87 Ethylbenzene	106	10.672	10.673	(1.005)	390420	5.00000	5.19777(Q)
89 m and p-Xylene	106	10.742	10.742	(1.012)	958173	10.0000	10.7114(Q)
90 o-Xylene	106	11.077	11.077	(1.043)	430801	5.00000	5.37034
91 Styrene	104	11.077	11.078	(1.043)	560509	5.00000	5.21356
92 Bromoform	173	11.301	11.301	(1.064)	37009	5.00000	4.48944
93 isopropyl benzene	105	11.356	11.356	(0.905)	1223738	5.00000	5.34232
95 Cyclohexanone	55	11.482	11.482	(1.082)	65496	200.000	187.562
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	95356	5.00000	5.09818
99 1,2,3-Trichloropropane	110	11.636	11.636	(0.928)	24405	5.00000	5.21475
101 Bromobenzene	156	11.706	11.706	(0.933)	193799	5.00000	4.99077
100 n-Propylbenzene	120	11.692	11.692	(0.932)	352122	5.00000	5.21028(Q)
103 2-Chlorotoluene	126	11.831	11.831	(0.943)	270182	5.00000	5.10694
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	983349	5.00000	5.34753
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	248060	5.00000	5.15245
105 tert-Butylbenzene	119	12.125	12.125	(0.967)	1034365	5.00000	5.30570
106 1,2,4-Trimethylbenzene	105	12.153	12.153	(0.969)	957223	5.00000	5.37760
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	282092	5.00000	5.26216(Q)
108 4-Isopropyltoluene	119	12.418	12.418	(0.990)	1136532	5.00000	5.41594

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	12.502	12.502	(0.997)	423469	5.00000	5.08110
111 1,4-dichlorobenzene	146	12.572	12.572	(1.002)	389540	5.00000	5.07769
113 n-Butylbenzene	91	12.809	12.809	(1.021)	1070545	5.00000	5.43595
114 1,2-Dichlorobenzene	146	12.963	12.963	(1.033)	315415	5.00000	5.06363
115 1,2-Dibromo-3-chloropropane	157	13.773	13.773	(1.098)	7847	5.00000	5.02660
117 1,2,4-Trichlorobenzene	180	14.862	14.862	(1.185)	178855	5.00000	5.11512
118 Hexachlorobutadiene	225	15.044	15.030	(1.199)	177199	5.00000	5.20810
119 Naphthalene	128	15.267	15.267	(1.217)	175937	5.00000	4.64507
120 1,2,3-Trichlorobenzene	180	15.644	15.630	(1.247)	133262	5.00000	5.08715

QC Flag Legend

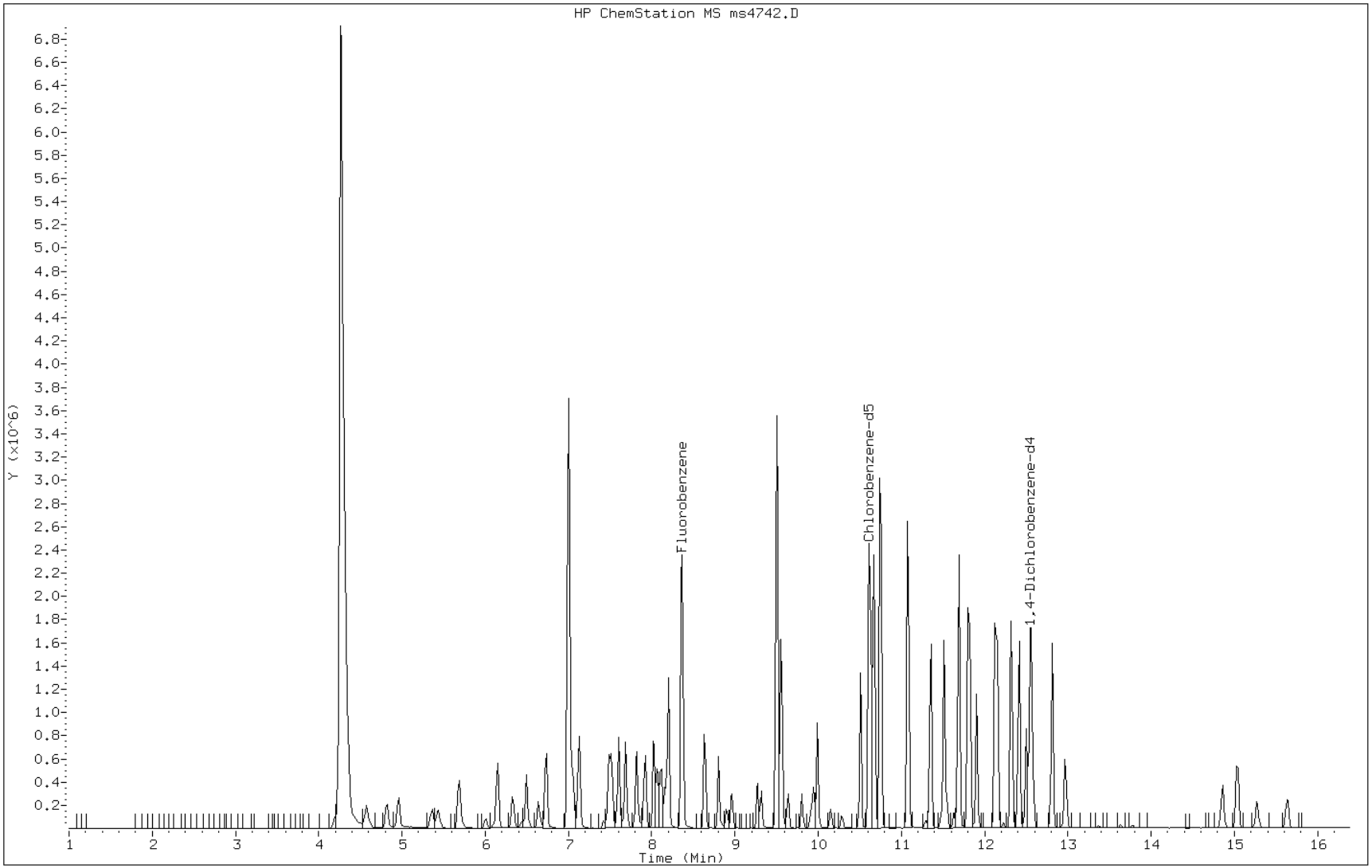
Q - Qualifier signal failed the ratio test.

Data File: ms4742.D

Date: 12-OCT-2010 20:30

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M5.0 Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\ms4743.D
Lab Smp Id: IC
Inj Date : 12-OCT-2010 20:50
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M10
Misc Info :
Comment :
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Meth Date : 13-Oct-2010 11:45 dobranskym Quant Type: ISTD
Cal Date : 13-OCT-2010 00:52 Cal File: ms4755.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	8.368	8.368	(1.000)	2279690	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	451814	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.544	12.543	(1.000)	551341	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				1096852	20.0000	20.5513
M	2 Xylene (total)	106				2879443	30.0000	31.7324
M	3 Trihalomethane (total)	100				1577684	40.0000	39.7255
M	4 1,3-Dichloropropene (total)	100				908054	20.0000	21.4445
	5 dichlorodifluoromethane	85	4.569	4.569	(0.546)	641218	10.0000	10.9687
	7 Chloromethane	50	4.806	4.806	(0.574)	611567	10.0000	10.5054
	8 Vinyl Chloride	62	4.960	4.960	(0.593)	731017	10.0000	10.7615
	10 Bromomethane	94	5.365	5.351	(0.641)	381666	10.0000	10.4236
	11 Chloroethane	64	5.435	5.421	(0.650)	477670	10.0000	10.4048
	14 Trichlorofluoromethane	101	5.686	5.686	(0.680)	902699	10.0000	10.2822
	13 Ethanol	45	5.686	5.686	(0.680)	66359	500.000	524.216
	18 Acrolein	56	5.994	5.993	(0.716)	208984	100.000	107.666
	22 Acetone	43	6.105	6.105	(0.730)	147748	40.0000	38.4235
	23 1,1-Dichloroethene	96	6.147	6.147	(0.735)	489212	10.0000	10.2210
	24 Iodomethane	142	6.329	6.329	(0.756)	613029	10.0000	10.4311
	25 Acetonitrile	41	6.315	6.315	(0.755)	151119	100.000	101.108
	29 tert-Butyl alcohol	59	6.440	6.440	(0.770)	146807	200.000	202.214
	30 Methylene Chloride	84	6.496	6.496	(0.776)	448570	10.0000	9.49209
	31 Acrylonitrile	53	6.636	6.636	(0.793)	495207	100.000	106.531

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.805)	567376	10.0000	10.2266
36 Isopropyl ether	87	6.999	6.999	(0.836)	1670622	50.0000	53.6494(Q)
37 1,1-Dichloroethane	63	7.055	7.055	(0.843)	1019447	10.0000	10.2456
38 Chloroprene	53	7.125	7.125	(0.851)	1100847	10.0000	10.8200
41 2-Butanone	43	7.418	7.418	(0.887)	200113	40.0000	39.8085
43 cis-1,2-Dichloroethene	96	7.488	7.488	(0.895)	529476	10.0000	10.3247
42 Propionitrile	54	7.460	7.460	(0.892)	178806	100.000	105.151
44 2,2-Dichloropropane	77	7.516	7.516	(0.898)	731559	10.0000	10.5890
45 Methacrylonitrile	41	7.600	7.600	(0.908)	955186	100.000	105.369
46 Bromochloromethane	128	7.683	7.683	(0.918)	153189	10.0000	10.2737
47 Chloroform	83	7.683	7.683	(0.918)	842116	10.0000	10.2071
51 1,1,1-Trichloroethane	97	7.921	7.921	(0.947)	830838	10.0000	10.3918
50 Isobutanol	41	7.865	7.865	(0.940)	68310	200.000	191.231
53 1,1-Dichloropropene	75	8.019	8.019	(0.958)	876929	10.0000	10.3686
54 Carbon Tetrachloride	117	8.061	8.060	(0.963)	708926	10.0000	10.4111
57 1,2-Dichloroethane	62	8.172	8.172	(0.977)	397910	10.0000	10.1332
58 Benzene	78	8.200	8.200	(0.980)	2214963	10.0000	10.2505
59 n-Butanol	56	8.354	8.353	(0.998)	92755	300.000	287.944
61 Trichloroethene	130	8.633	8.633	(1.032)	556917	10.0000	10.1533
64 1,2-Dichloropropane	63	8.801	8.801	(1.052)	472221	10.0000	10.3323
66 1,4-Dioxane	88	8.857	8.856	(1.058)	54195	500.000	533.120
67 Dibromomethane	93	8.899	8.898	(1.063)	134848	10.0000	10.2266
68 Bromodichloromethane	83	8.968	8.968	(1.072)	451124	10.0000	10.3591
71 cis-1,3-Dichloropropene	75	9.262	9.262	(0.872)	548207	10.0000	10.7593
72 4-Methyl-2-pentanone	43	9.317	9.317	(0.878)	499598	40.0000	43.8661
74 Toluene	91	9.555	9.555	(1.142)	2360668	10.0000	10.2541
76 trans-1,3-Dichloropropene	75	9.639	9.639	(1.152)	359847	10.0000	10.6851
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.172)	188380	10.0000	10.1312
78 2-Hexanone	43	9.918	9.904	(1.185)	313248	40.0000	38.9558
79 1,3-Dichloropropane	76	9.946	9.946	(0.937)	401014	10.0000	10.2133
80 Tetrachloroethene	164	9.988	9.988	(0.941)	452562	10.0000	9.96718
81 Dibromochloromethane	129	10.155	10.155	(0.957)	201529	10.0000	10.2513
83 1,2-Dibromoethane	107	10.281	10.281	(0.968)	159435	10.0000	10.4303
84 1-Chlorohexane	91	10.505	10.505	(0.989)	903180	10.0000	10.8954
86 Chlorobenzene	112	10.630	10.631	(1.001)	1267817	10.0000	10.0441
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	359503	10.0000	10.3958
87 Ethylbenzene	106	10.672	10.673	(1.005)	815494	10.0000	10.3292(Q)
89 m and p-Xylene	106	10.742	10.742	(1.012)	1974822	20.0000	21.0036(Q)
90 o-Xylene	106	11.077	11.077	(1.043)	904621	10.0000	10.7288
91 Styrene	104	11.077	11.078	(1.043)	1237638	10.0000	10.9523
92 Bromoform	173	11.301	11.301	(1.064)	82915	10.0000	8.90804
93 isopropyl benzene	105	11.357	11.356	(0.905)	2531493	10.0000	10.7456
95 Cyclohexanone	55	11.482	11.482	(1.082)	147861	400.000	402.851
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	192971	10.0000	10.0317
99 1,2,3-Trichloropropane	110	11.636	11.636	(0.928)	48547	10.0000	10.0863
101 Bromobenzene	156	11.706	11.706	(0.933)	402612	10.0000	10.0813
100 n-Propylbenzene	120	11.692	11.692	(0.932)	723509	10.0000	10.4094(Q)
103 2-Chlorotoluene	126	11.831	11.831	(0.943)	559014	10.0000	10.2740
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	2074694	10.0000	10.9702
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	518706	10.0000	10.4759
105 tert-Butylbenzene	119	12.125	12.125	(0.967)	2153988	10.0000	10.7430
106 1,2,4-Trimethylbenzene	105	12.153	12.153	(0.969)	2001546	10.0000	10.9334
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	586854	10.0000	10.6443(Q)
108 4-Isopropyltoluene	119	12.418	12.418	(0.990)	2372533	10.0000	10.9930

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	12.502	12.502	(0.997)	879889	10.0000	10.2654
111 1,4-dichlorobenzene	146	12.572	12.572	(1.002)	800005	10.0000	10.1396
113 n-Butylbenzene	91	12.809	12.809	(1.021)	2251487	10.0000	11.1161
114 1,2-Dichlorobenzene	146	12.963	12.963	(1.033)	653231	10.0000	10.1967
115 1,2-Dibromo-3-chloropropane	157	13.787	13.773	(1.099)	16424	10.0000	9.10891
117 1,2,4-Trichlorobenzene	180	14.862	14.862	(1.185)	367001	10.0000	10.2056
118 Hexachlorobutadiene	225	15.044	15.030	(1.199)	358632	10.0000	10.2490
119 Naphthalene	128	15.267	15.267	(1.217)	376240	10.0000	9.65860
120 1,2,3-Trichlorobenzene	180	15.644	15.630	(1.247)	275309	10.0000	10.2189

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: ms4743.D

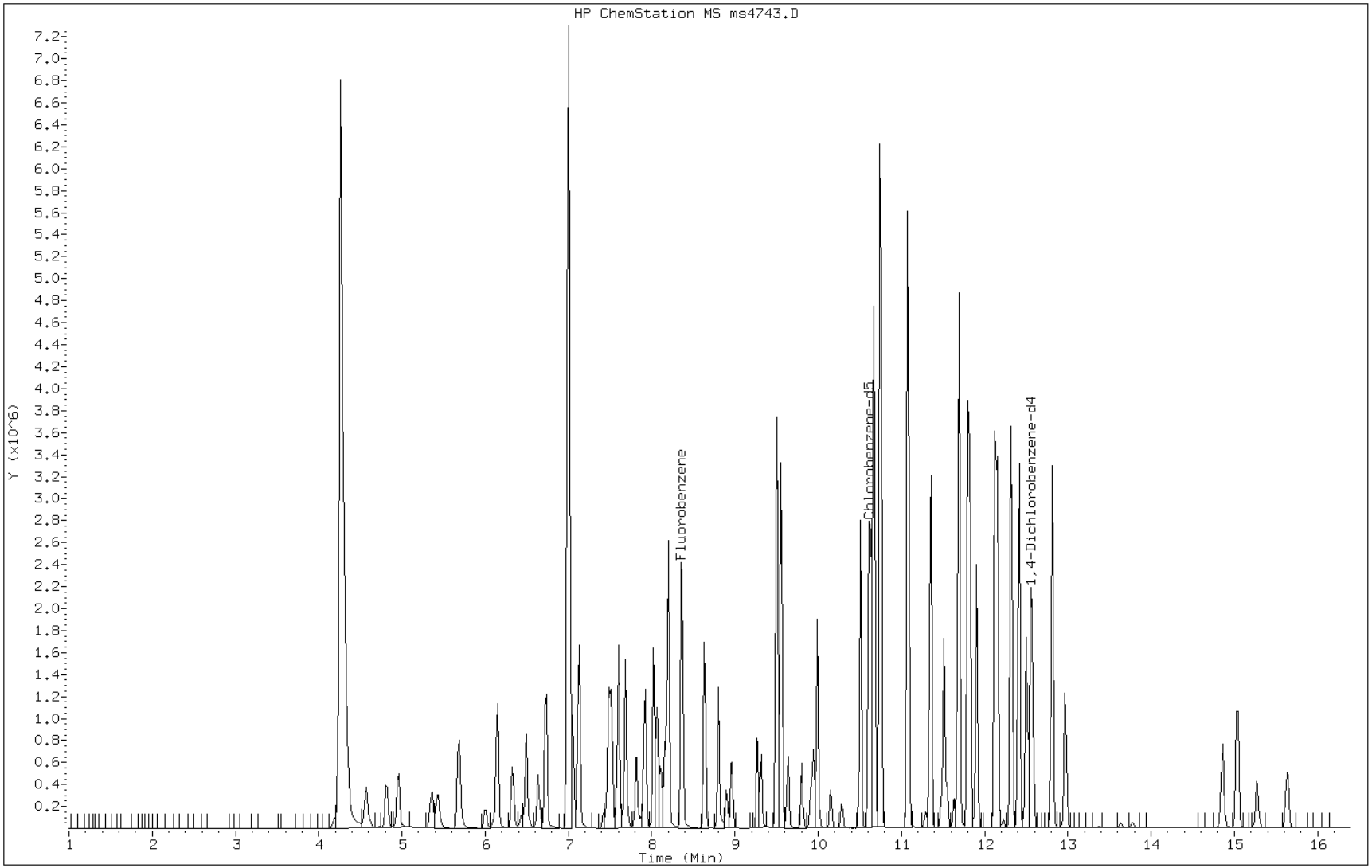
Date: 12-OCT-2010 20:50

Client ID:

Instrument: GCMS1.i

Sample Info: IC,,M10

Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\ms4744.D
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Operator : RYERSONJ Inst ID: GCMS1.i
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Meth Date : 13-Oct-2010 11:45 dobranskym Quant Type: ISTD
Cal Date : 13-OCT-2010 00:52 Cal File: ms4755.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 60	Fluorobenzene	96	8.354	8.368	(1.000)	2377956	12.5000	
* 85	Chlorobenzene-d5	119	10.616	10.616	(1.000)	512667	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	12.544	12.543	(1.000)	600382	12.5000	(Q)
M 1	1,2-Dichloroethene (total)	96				3451253	60.0000	61.9936
M 2	Xylene (total)	106				9135320	90.0000	88.7042
M 3	Trihalomethane (total)	100				5059217	120.000	120.823
M 4	1,3-Dichloropropene (total)	100				3069332	60.0000	66.7639
5	dichlorodifluoromethane	85	4.569	4.569	(0.547)	1934212	30.0000	31.7194
7	Chloromethane	50	4.806	4.806	(0.575)	1817489	30.0000	29.9304
8	Vinyl Chloride	62	4.960	4.960	(0.594)	2165959	30.0000	30.5680
10	Bromomethane	94	5.365	5.351	(0.642)	1196806	30.0000	31.3350
11	Chloroethane	64	5.421	5.421	(0.649)	1457860	30.0000	30.4433
14	Trichlorofluoromethane	101	5.686	5.686	(0.681)	2749287	30.0000	30.0218
13	Ethanol	45	5.686	5.686	(0.681)	198936	1500.00	1506.59
18	Acrolein	56	5.993	5.993	(0.717)	662816	300.000	327.364
22	Acetone	43	6.105	6.105	(0.731)	439536	120.000	109.583
23	1,1-Dichloroethene	96	6.147	6.147	(0.736)	1604633	30.0000	32.1397
24	Iodomethane	142	6.329	6.329	(0.758)	1946800	30.0000	31.7571
25	Acetonitrile	41	6.315	6.315	(0.756)	454768	300.000	291.694
29	tert-Butyl alcohol	59	6.440	6.440	(0.771)	496965	600.000	656.240
30	Methylene Chloride	84	6.496	6.496	(0.778)	1337390	30.0000	27.1307
31	Acrylonitrile	53	6.636	6.636	(0.794)	1535152	300.000	316.601

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.806)	1784494	30.0000	30.8352
36 Isopropyl ether	87	6.999	6.999	(0.838)	5166914	150.000	159.071(Q)
37 1,1-Dichloroethane	63	7.041	7.055	(0.843)	3124822	30.0000	30.1072
38 Chloroprene	53	7.125	7.125	(0.853)	3569225	30.0000	33.6314
41 2-Butanone	43	7.418	7.418	(0.888)	669141	120.000	127.612
43 cis-1,2-Dichloroethene	96	7.488	7.488	(0.896)	1666759	30.0000	31.1584
42 Propionitrile	54	7.460	7.460	(0.893)	559675	300.000	315.528
44 2,2-Dichloropropane	77	7.516	7.516	(0.900)	2446316	30.0000	33.9462
45 Methacrylonitrile	41	7.600	7.600	(0.910)	2928715	300.000	309.723
46 Bromochloromethane	128	7.683	7.683	(0.920)	491743	30.0000	31.6162
47 Chloroform	83	7.683	7.683	(0.920)	2581544	30.0000	29.9972
51 1,1,1-Trichloroethane	97	7.921	7.921	(0.948)	2663555	30.0000	31.9380
50 Isobutanol	41	7.865	7.865	(0.941)	217547	600.000	583.848
53 1,1-Dichloropropene	75	8.019	8.019	(0.960)	2824103	30.0000	32.0116
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	2325429	30.0000	32.7395
57 1,2-Dichloroethane	62	8.158	8.172	(0.977)	1220287	30.0000	29.7917
58 Benzene	78	8.200	8.200	(0.982)	6761006	30.0000	29.9959
59 n-Butanol	56	8.354	8.353	(1.000)	293681	900.000	895.348
61 Trichloroethene	130	8.633	8.633	(1.033)	1803597	30.0000	31.5230
64 1,2-Dichloropropane	63	8.801	8.801	(1.053)	1465768	30.0000	30.7461
66 1,4-Dioxane	88	8.856	8.856	(1.060)	168480	1500.00	1588.86
67 Dibromomethane	93	8.898	8.898	(1.065)	434853	30.0000	31.6158
68 Bromodichloromethane	83	8.954	8.968	(1.072)	1478593	30.0000	32.5496
71 cis-1,3-Dichloropropene	75	9.262	9.262	(0.872)	1845101	30.0000	31.9143
72 4-Methyl-2-pentanone	43	9.317	9.317	(0.878)	1658744	120.000	128.355
74 Toluene	91	9.555	9.555	(1.144)	7138305	30.0000	29.7255
76 trans-1,3-Dichloropropene	75	9.639	9.639	(1.154)	1224231	30.0000	34.8496
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	599527	30.0000	30.9104
78 2-Hexanone	43	9.904	9.904	(1.186)	1082252	120.000	124.458
79 1,3-Dichloropropane	76	9.946	9.946	(0.937)	1251146	30.0000	28.0826
80 Tetrachloroethene	164	9.988	9.988	(0.941)	1498448	30.0000	29.0844
81 Dibromochloromethane	129	10.155	10.155	(0.957)	703428	30.0000	31.5345
83 1,2-Dibromoethane	107	10.281	10.281	(0.968)	532903	30.0000	30.7246
84 1-Chlorohexane	91	10.505	10.505	(0.989)	2955317	30.0000	31.4195
86 Chlorobenzene	112	10.630	10.631	(1.001)	3966907	30.0000	27.6968
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	1195821	30.0000	30.4752
87 Ethylbenzene	106	10.672	10.673	(1.005)	2622609	30.0000	29.2754
89 m and p-Xylene	106	10.742	10.742	(1.012)	6283898	60.0000	58.9004
90 o-Xylene	106	11.077	11.077	(1.043)	2851422	30.0000	29.8038
91 Styrene	104	11.077	11.078	(1.043)	4093945	30.0000	31.9285
92 Bromoform	173	11.301	11.301	(1.064)	295652	30.0000	26.7413
93 isopropyl benzene	105	11.356	11.356	(0.905)	7888552	30.0000	30.7501
95 Cyclohexanone	55	11.482	11.482	(1.082)	532037	1200.00	1277.49
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	604467	30.0000	28.8567
99 1,2,3-Trichloropropane	110	11.636	11.636	(0.928)	161123	30.0000	30.7411
101 Bromobenzene	156	11.706	11.706	(0.933)	1323926	30.0000	30.4429
100 n-Propylbenzene	120	11.692	11.692	(0.932)	2388816	30.0000	31.5615(Q)
103 2-Chlorotoluene	126	11.831	11.831	(0.943)	1797046	30.0000	30.3299
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	6563668	30.0000	31.8712
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	1676287	30.0000	31.0894
105 tert-Butylbenzene	119	12.125	12.125	(0.967)	6930565	30.0000	31.7427
106 1,2,4-Trimethylbenzene	105	12.153	12.153	(0.969)	6310154	30.0000	31.6536
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	1925998	30.0000	32.0801(Q)
108 4-Isopropyltoluene	119	12.418	12.418	(0.990)	7551659	30.0000	32.1322

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	12.502	12.502	(0.997)	2820449	30.0000	30.2177
111 1,4-dichlorobenzene	146	12.572	12.572	(1.002)	2583652	30.0000	30.0715
113 n-Butylbenzene	91	12.809	12.809	(1.021)	7077582	30.0000	32.0894
114 1,2-Dichlorobenzene	146	12.963	12.963	(1.033)	2084819	30.0000	29.8851
115 1,2-Dibromo-3-chloropropane	157	13.787	13.773	(1.099)	61792	30.0000	28.8129
117 1,2,4-Trichlorobenzene	180	14.862	14.862	(1.185)	1237643	30.0000	31.6051
118 Hexachlorobutadiene	225	15.044	15.030	(1.199)	1137751	30.0000	29.8588
119 Naphthalene	128	15.267	15.267	(1.217)	1363385	30.0000	32.1411
120 1,2,3-Trichlorobenzene	180	15.644	15.630	(1.247)	924215	30.0000	31.5027

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: ms4744.D

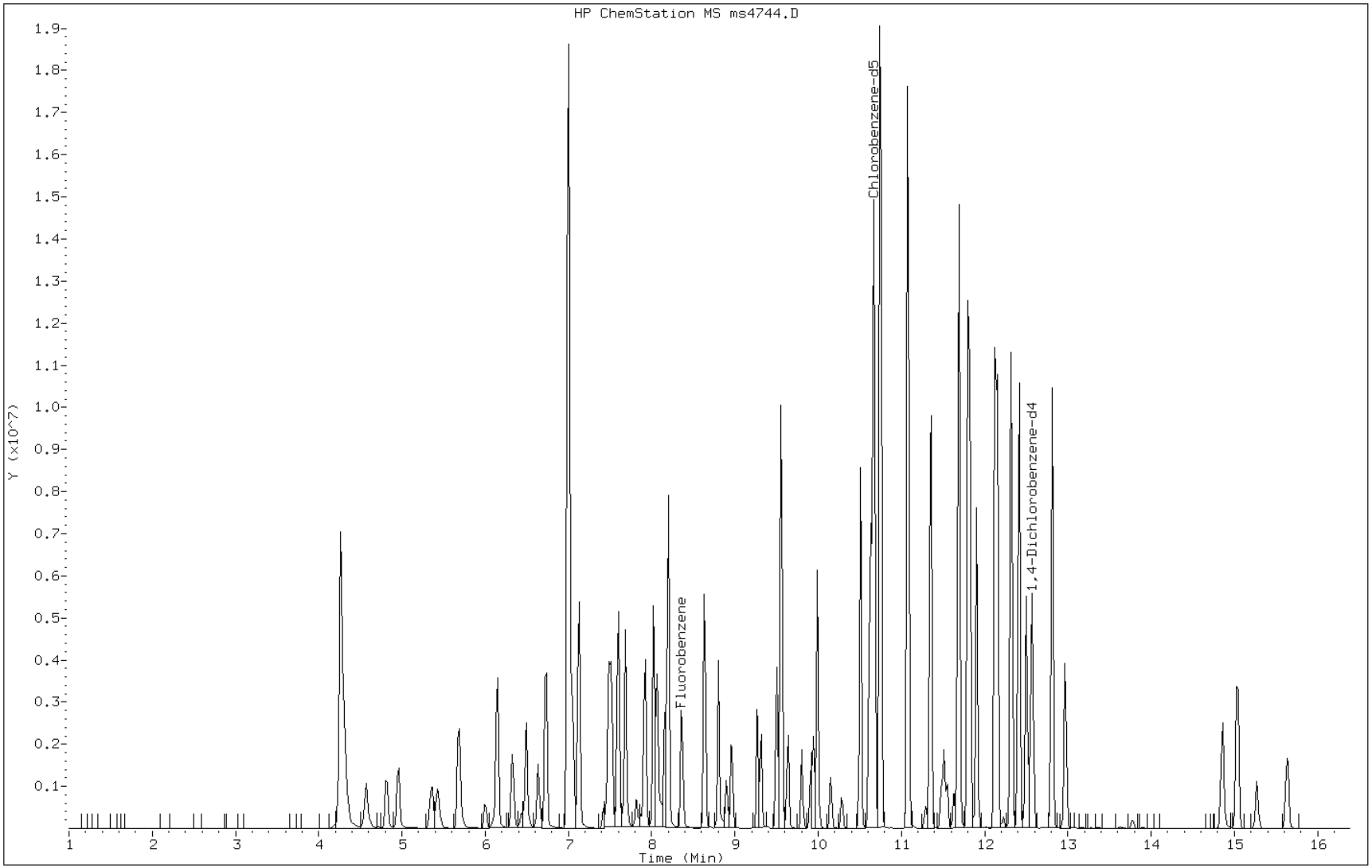
Date: 12-OCT-2010 21:10

Client ID:

Instrument: GCMS1.i

Sample Info: IC,,M30

Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\ms4745.D
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Inj Date : 12-OCT-2010 21:30
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M60
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Meth Date : 13-Oct-2010 11:45 dobranskym Quant Type: ISTD
Cal Date : 13-OCT-2010 00:52 Cal File: ms4755.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 60	Fluorobenzene	96	8.368	8.368	(1.000)	2498480	12.5000	
* 85	Chlorobenzene-d5	119	10.616	10.616	(1.000)	485916	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	12.544	12.543	(1.000)	655538	12.5000	(Q)
M 1	1,2-Dichloroethene (total)	96				7006920	120.000	119.821
M 2	Xylene (total)	106				17782392	180.000	182.438
M 3	Trihalomethane (total)	100				10500300	240.000	257.972
M 4	1,3-Dichloropropene (total)	100				6488058	120.000	141.541
5	dichlorodifluoromethane	85	4.569	4.569	(0.546)	3876623	60.0000	60.5066(A)
7	Chloromethane	50	4.806	4.806	(0.574)	3646688	60.0000	57.1566
8	Vinyl Chloride	62	4.960	4.960	(0.593)	4191240	60.0000	56.2974
10	Bromomethane	94	5.351	5.351	(0.640)	2548923	60.0000	63.5171(A)
11	Chloroethane	64	5.421	5.421	(0.648)	2923267	60.0000	58.0996
14	Trichlorofluoromethane	101	5.686	5.686	(0.680)	5495816	60.0000	57.1185
13	Ethanol	45	5.686	5.686	(0.680)	407776	3000.00	2939.22
18	Acrolein	56	5.993	5.993	(0.716)	1321779	600.000	621.334(A)
22	Acetone	43	6.105	6.105	(0.730)	872339	240.000	206.996
23	1,1-Dichloroethene	96	6.147	6.147	(0.735)	3161929	60.0000	60.2763(A)
24	Iodomethane	142	6.329	6.329	(0.756)	4016255	60.0000	62.3547(A)
25	Acetonitrile	41	6.315	6.315	(0.755)	888729	600.000	542.544
29	tert-Butyl alcohol	59	6.440	6.440	(0.770)	1076795	1200.00	1353.31(A)
30	Methylene Chloride	84	6.496	6.496	(0.776)	2692186	60.0000	51.9800
31	Acrylonitrile	53	6.636	6.636	(0.793)	3099993	600.000	608.485(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.805)	3601008	60.0000	59.2221
36 Isopropyl ether	87	6.999	6.999	(0.836)	10012307	300.000	293.373
37 1,1-Dichloroethane	63	7.055	7.055	(0.843)	6184959	60.0000	56.7165
38 Chloroprene	53	7.125	7.125	(0.851)	6883701	60.0000	61.7335(A)
41 2-Butanone	43	7.418	7.418	(0.887)	1352652	240.000	245.520(A)
43 cis-1,2-Dichloroethene	96	7.488	7.488	(0.895)	3405912	60.0000	60.5987(A)
42 Propionitrile	54	7.460	7.460	(0.892)	1076163	600.000	577.441
44 2,2-Dichloropropane	77	7.516	7.516	(0.898)	5036942	60.0000	66.5232(A)
45 Methacrylonitrile	41	7.600	7.600	(0.908)	5708881	600.000	574.612
46 Bromochloromethane	128	7.683	7.683	(0.918)	1040715	60.0000	63.6841(A)
47 Chloroform	83	7.683	7.683	(0.918)	5223329	60.0000	57.7666
51 1,1,1-Trichloroethane	97	7.921	7.921	(0.947)	5330243	60.0000	60.8304(A)
50 Isobutanol	41	7.865	7.865	(0.940)	459983	1200.00	1174.94
53 1,1-Dichloropropene	75	8.019	8.019	(0.958)	5550105	60.0000	59.8764
54 Carbon Tetrachloride	117	8.060	8.060	(0.963)	4698702	60.0000	62.9615(A)
57 1,2-Dichloroethane	62	8.172	8.172	(0.977)	2475546	60.0000	57.5217
58 Benzene	78	8.200	8.200	(0.980)	12890075	60.0000	54.4294
59 n-Butanol	56	8.354	8.353	(0.998)	618004	1800.00	1803.74(A)
61 Trichloroethene	130	8.633	8.633	(1.032)	3752941	60.0000	62.4292(A)
64 1,2-Dichloropropane	63	8.801	8.801	(1.052)	2978892	60.0000	59.4713
66 1,4-Dioxane	88	8.856	8.856	(1.058)	345829	3000.00	3104.04(A)
67 Dibromomethane	93	8.898	8.898	(1.063)	897011	60.0000	62.0707(A)
68 Bromodichloromethane	83	8.968	8.968	(1.072)	3079663	60.0000	64.5250(A)
71 cis-1,3-Dichloropropene	75	9.262	9.262	(0.872)	3871680	60.0000	70.6544(A)
72 4-Methyl-2-pentanone	43	9.317	9.317	(0.878)	3297192	240.000	269.185(A)
74 Toluene	91	9.555	9.555	(1.142)	13345938	60.0000	52.8945
76 trans-1,3-Dichloropropene	75	9.639	9.639	(1.152)	2616378	60.0000	70.8864(A)
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.172)	1237635	60.0000	60.7319(A)
78 2-Hexanone	43	9.904	9.904	(1.184)	2190869	240.000	237.964
79 1,3-Dichloropropane	76	9.946	9.946	(0.937)	2561958	60.0000	60.6702(A)
80 Tetrachloroethene	164	9.988	9.988	(0.941)	3119171	60.0000	63.8752(A)
81 Dibromochloromethane	129	10.155	10.155	(0.957)	1520396	60.0000	71.9113(A)
83 1,2-Dibromoethane	107	10.281	10.281	(0.968)	1126680	60.0000	68.5351(A)
84 1-Chlorohexane	91	10.505	10.505	(0.989)	5786312	60.0000	64.9039(A)
86 Chlorobenzene	112	10.630	10.631	(1.001)	8086912	60.0000	59.5711
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	2612325	60.0000	70.2397(A)
87 Ethylbenzene	106	10.672	10.673	(1.005)	5366846	60.0000	63.2067(A)
89 m and p-Xylene	106	10.742	10.742	(1.012)	11999459	120.000	118.666
90 o-Xylene	106	11.077	11.077	(1.043)	5782933	60.0000	63.7723(A)
91 Styrene	104	11.077	11.078	(1.043)	8326170	60.0000	68.5103(A)
92 Bromoform	173	11.301	11.301	(1.064)	676912	60.0000	63.7691(A)
93 isopropyl benzene	105	11.356	11.356	(0.905)	14674200	60.0000	52.3881
95 Cyclohexanone	55	11.482	11.482	(1.082)	1066986	2400.00	2703.01(A)
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	1260044	60.0000	55.0922
99 1,2,3-Trichloropropane	110	11.636	11.636	(0.928)	334615	60.0000	58.4705
101 Bromobenzene	156	11.706	11.706	(0.933)	2866780	60.0000	60.3736(A)
100 n-Propylbenzene	120	11.692	11.692	(0.932)	4925614	60.0000	59.6025
103 2-Chlorotoluene	126	11.831	11.831	(0.943)	3778521	60.0000	58.4067
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	12776131	60.0000	56.8174
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	3567802	60.0000	60.6030(A)
105 tert-Butylbenzene	119	12.125	12.125	(0.967)	13732202	60.0000	57.6031
106 1,2,4-Trimethylbenzene	105	12.153	12.153	(0.969)	12481917	60.0000	57.3448
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	4020423	60.0000	61.3313(A)
108 4-Isopropyltoluene	119	12.418	12.418	(0.990)	14449709	60.0000	56.3103

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	12.502	12.502	(0.997)	6012006	60.0000	58.9919
111 1,4-dichlorobenzene	146	12.572	12.572	(1.002)	5516429	60.0000	58.8042
113 n-Butylbenzene	91	12.809	12.809	(1.021)	13516172	60.0000	56.1255
114 1,2-Dichlorobenzene	146	12.963	12.963	(1.033)	4510509	60.0000	59.2164
115 1,2-Dibromo-3-chloropropane	157	13.773	13.773	(1.098)	147410	60.0000	61.6693(A)
117 1,2,4-Trichlorobenzene	180	14.862	14.862	(1.185)	2742346	60.0000	64.1378(A)
118 Hexachlorobutadiene	225	15.030	15.030	(1.198)	2355324	60.0000	56.6115
119 Naphthalene	128	15.267	15.267	(1.217)	3229340	60.0000	69.7245(A)
120 1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	2030480	60.0000	63.3875(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: ms4745.D

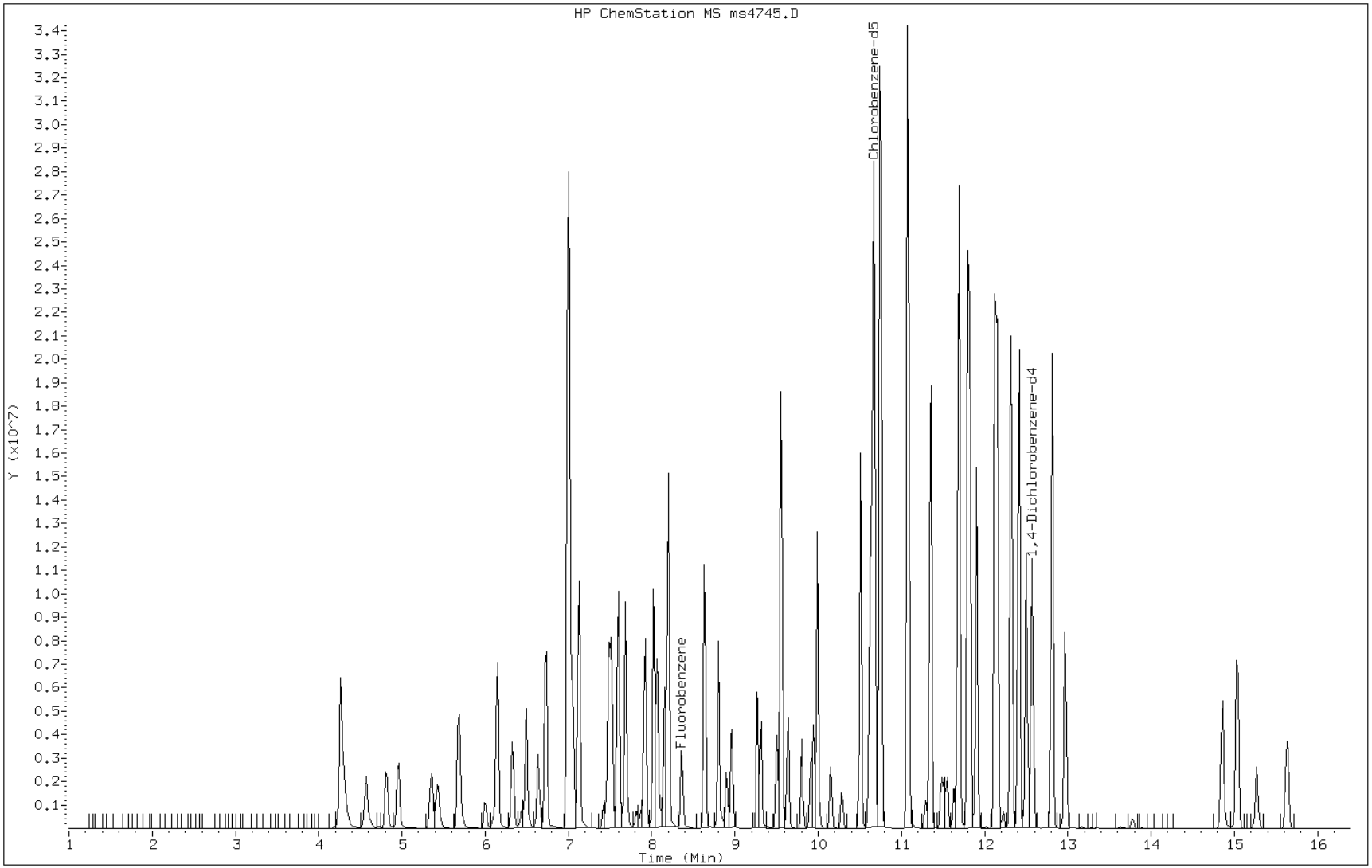
Date: 12-OCT-2010 21:30

Client ID:

Instrument: GCMS1.i

Sample Info: IC,,M60

Operator: RYERSONJ



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40333

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2010 18:01 Calibration End Date: 11/10/2010 20:04 Calibration ID: 3590

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-40333/2	ms6298.D
Level 2	IC 280-40333/3	ms6299.D
Level 3	IC 280-40333/4	ms6300.D
Level 4	IC 280-40333/5	ms6301.D
Level 5	ICIS 280-40333/6	ms6302.D
Level 6	IC 280-40333/7	ms6303.D
Level 7	IC 280-40333/8	ms6304.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethylene oxide	+++++ 0.0052	0.0055 0.0044	0.0055	0.0060	0.0059	Ave		0.0054				10.7		15.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.3047 0.3265	0.2712 0.3202	0.2376	0.3359	0.3056	Ave		0.3003				11.5		15.0			
2-Propanol	+++++ 0.0044	0.0042 0.0045	0.0044	0.0040	0.0045	Ave		0.0043				5.0		15.0			
Dichlorofluoromethane	0.7153 0.6439	0.6317 0.6370	0.5973	0.6646	0.6408	Ave		0.6472				5.6		15.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.3856 0.3492	0.3443 0.3463	0.3054	0.3504	0.3313	Ave		0.3447				7.0		15.0			
2,2-Dichloro-1,1,1-trifluoroethane	0.5996 0.5433	0.5247 0.5358	0.4891	0.5517	0.5160	Ave		0.5372				6.4		15.0			
Ethyl ether	0.1293 0.1338	0.1162 0.1322	0.1210	0.1323	0.1276	Ave		0.1275				5.1		15.0			
Propene oxide	0.0122 0.0169	0.0120 0.0168	0.0135	0.0163	0.0171	Lin2	0.6736	0.0166							0.9927		
Vinyl acetate	+++++ 0.2104	0.1792 0.2027	0.1858	0.2171	0.2099	Ave		0.2009				7.5		15.0			
1,1,2-Trichlorotrifluoroethane	+++++ 0.3165	0.3024 0.3177	0.2684	0.3186	0.2941	Ave		0.3030				6.5		15.0			
Methyl acetate	0.0600 0.0619	0.0565 0.0621	0.0578	0.0595	0.0590	Ave		0.0595				3.4		15.0			
Allyl chloride	0.5692 0.5409	0.5042 0.5503	0.4891	0.5367	0.5357	Ave		0.5323				5.1		15.0			
Carbon disulfide	+++++ 1.3245	1.2371 1.2752	1.1579	1.3408	1.2845	Ave		1.2700				5.2		15.0			
Methyl tert-butyl ether	0.3098 0.4107	0.2910 0.4290	0.3140	0.3587	0.3793	Ave		0.3561				14.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40333

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2010 18:01 Calibration End Date: 11/10/2010 20:04 Calibration ID: 3590

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexane	2.6886 3.0235	2.5638 3.0458	2.3378	3.0137	2.7973	Ave		2.7815				9.7		15.0			
Tert-butyl ethyl ether	0.4235 0.5664	0.4026 0.4712	0.4424	0.5437	0.5793	Ave		0.4899				14.8		15.0			
Ethyl acetate	+++++ 0.0841	0.0707 0.0853	0.0749	0.0798	0.0803	Ave		0.0792				7.0		15.0			
Tetrahydrofuran	0.0240 0.0225	0.0227 0.0228	0.0208	0.0206	0.0208	Ave		0.0220				5.9		15.0			
2-Chloroethyl vinyl ether	+++++ 0.1839	0.0924 +++++	0.0925	0.1268	0.1854	Lin1	0.0606	0.1885							0.9917		0.9900
2-Nitropropane	+++++ 0.0986	0.0952 0.1050	0.0880	0.0954	0.0923	Ave		0.0958				6.0		15.0			
Cyclohexane	0.6306 0.7233	0.5919 0.7106	0.5537	0.7014	0.6763	Ave		0.6554				9.9		15.0			
Tert-amyl methyl ether	+++++ 0.4198	0.2650 0.3845	0.2845	0.3664	0.4026	Lin2	0.1567	0.4038							0.9946		0.9900
2-Pentanone	+++++ 0.0581	0.0447 0.0601	0.0481	0.0496	0.0529	Ave		0.0522				11.4		15.0			
Methyl methacrylate	+++++ 0.0270	0.0156 0.0278	0.0184	0.0210	0.0233	Lin2	0.0723	0.0259							0.9910		0.9900
Methylcyclohexane	0.5695 0.6124	0.5319 0.5995	0.5051	0.6215	0.5809	Ave		0.5744				7.4		15.0			
Ethyl methacrylate	+++++ 0.7806	0.4498 0.8264	0.4879	0.6054	0.6920	Lin1	0.1110	0.8145							0.9971		0.9900
cis-1,4-Dichloro-2-butene	+++++ 0.1230	0.0884 0.1353	0.0945	0.1022	0.1054	Lin1	0.0455	0.1311							0.9947		0.9900
Tetrahydrothiophene	+++++ 0.3775	0.2320 0.4209	0.2340	0.2803	0.3166	Lin1	0.0619	0.4075							0.9926		0.9900
trans-1,4-Dichloro-2-butene	+++++ 0.1154	0.0821 0.1221	0.0763	0.1018	0.1080	Lin1	0.0420	0.1204							0.9983		0.9900
1,2,3-Trimethylbenzene	+++++ 4.4273	3.7296 4.2077	3.6977	4.3352	4.3868	Ave		4.1307				8.0		15.0			
Dibromofluoromethane (Surr)	+++++ 0.2471	0.2394 +++++	0.2341	0.2512	0.2483	Ave		0.2440				2.9		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.2291	+++++ 0.2306	0.2334	0.2401	0.2361	Ave		0.2339				1.9		15.0			
Toluene-d8 (Surr)	+++++ 5.4694	+++++ 5.9442	5.3371	5.8834	5.9430	Ave		5.7154				5.1		15.0			
4-Bromofluorobenzene (Surr)	+++++ 1.3494	+++++ 1.3967	1.1878	1.3671	1.4021	Ave		1.3406				6.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40333

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2010 18:01 Calibration End Date: 11/10/2010 20:04 Calibration ID: 3590

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-40333/2	ms6298.D
Level 2	IC 280-40333/3	ms6299.D
Level 3	IC 280-40333/4	ms6300.D
Level 4	IC 280-40333/5	ms6301.D
Level 5	ICIS 280-40333/6	ms6302.D
Level 6	IC 280-40333/7	ms6303.D
Level 7	IC 280-40333/8	ms6304.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethylene oxide	FB	Ave	+++++ 3354726	117178 5874854	217191	622731	1227226	+++++ 3750	125 7500	250	625	1250
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	FB	Ave	25143 1687564	45901 3428695	75585	278143	512364	0.500 30.0	1.00 60.0	2.00	5.00	10.0
2-Propanol	FB	Ave	+++++ 454617	14143 973621	27701	65581	149761	+++++ 600	20.0 1200	40.0	100	200
Dichlorofluoromethane	FB	Ave	59014 3327531	106906 6820307	190005	550282	1074296	0.500 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	31817 1804906	58276 3707849	97155	290168	555527	0.500 30.0	1.00 60.0	2.00	5.00	10.0
2,2-Dichloro-1,1,1-trifluoroethane	FB	Ave	49468 2808114	88806 5736416	155572	456785	865065	0.500 30.0	1.00 60.0	2.00	5.00	10.0
Ethyl ether	FB	Ave	10666 691248	19657 1415301	38503	109550	213965	0.500 30.0	1.00 60.0	2.00	5.00	10.0
Propene oxide	FB	Lin2	50463 4363529	101695 9011641	214283	674369	1429925	25.0 1500	50.0 3000	100	250	500
Vinyl acetate	FB	Ave	+++++ 2175156	60671 4341295	118217	359514	703794	+++++ 60.0	2.00 120	4.00	10.0	20.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	+++++ 1635840	51171 3401795	85369	263783	493173	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	24732 1598327	47836 3321810	92003	246228	494499	2.50 150	5.00 300	10.0	25.0	50.0
Allyl chloride	FB	Ave	46966 2795482	85336 5891896	155584	444428	898110	0.500 30.0	1.00 60.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	+++++ 6845281	209361 13653651	368339	1110209	2153617	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	25562 2122466	49248 4593624	99885	297016	635902	0.500 30.0	1.00 60.0	2.00	5.00	10.0
Hexane	CBZ	Ave	43067 3171747	84482 6402161	147291	498061	931452	0.500 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40333

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2010 18:01 Calibration End Date: 11/10/2010 20:04 Calibration ID: 3590

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tert-butyl ethyl ether	FB	Ave	174700 14637311	340710 25226128	703665	2250841	4856298	2.50 150	5.00 300	10.0	25.0	50.0
Ethyl acetate	FB	Ave	+++++ 869325	23935 1826570	47659	132114	269365	+++++ 60.0	2.00 120	4.00	10.0	20.0
Tetrahydrofuran	FB	Ave	3955 232979	7681 489083	13252	34137	69656	1.00 60.0	2.00 120	4.00	10.0	20.0
2-Chloroethyl vinyl ether	CBZ	Lin1	+++++ 192872	3045 +++++	5829	20950	61732	+++++ 30.0	1.00 +++++	2.00	5.00	10.0
2-Nitropropane	CBZ	Ave	+++++ 103485	3137 220798	5546	15771	30733	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexane	FB	Ave	52029 3738067	100172 7608192	176125	580778	1133891	0.500 30.0	1.00 60.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Lin2	+++++ 10849128	224217 20584392	452492	1516987	3374670	+++++ 150	5.00 300	10.0	25.0	50.0
2-Pentanone	FB	Ave	+++++ 1202091	30242 2571781	61217	164170	354978	+++++ 120	4.00 240	8.00	20.0	40.0
Methyl methacrylate	FB	Lin2	+++++ 278937	5289 596014	11723	34704	77990	+++++ 60.0	2.00 120	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	46984 3165170	90023 6418410	160664	514613	973943	0.500 30.0	1.00 60.0	2.00	5.00	10.0
Ethyl methacrylate	CBZ	Lin1	+++++ 1637826	29641 3474116	61473	200092	460828	+++++ 60.0	2.00 120	4.00	10.0	20.0
cis-1,4-Dichloro-2-butene	DCB	Lin1	+++++ 163160	3479 374911	7443	20849	45043	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Tetrahydrothiophene	CBZ	Lin1	+++++ 395980	7645 884830	14743	46327	105422	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	+++++ 153077	3234 338174	6009	20784	46147	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCB	Ave	+++++ 5871412	146836 11658597	291164	884803	1874965	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 851289	40514 +++++	74452	208029	499564	+++++ 20.0	1.00 +++++	2.00	5.00	12.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 789461	+++++ 1234275	74230	198842	474963	+++++ 20.0	+++++ 30.0	2.00	5.00	12.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 3825049	+++++ 6247371	336257	972316	2374712	+++++ 20.0	+++++ 30.0	2.00	5.00	12.0
4-Bromofluorobenzene (Surr)	DCB	Ave	+++++ 1192994	+++++ 1935023	93529	279021	719136	+++++ 20.0	+++++ 30.0	2.00	5.00	12.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver | Job No.: 280-10064-1 | Analy Batch No.: 40333

SDG No.:

Instrument ID: MSV_MS1 | GC Column: DB-624 | ID: 0.32(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2010 18:01 | Calibration End Date: 11/10/2010 20:04 | Calibration ID: 3590

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\ms6298.D
Lab Smp Id: IC
Inj Date : 10-NOV-2010 18:01
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,S0.5 2.5uL 10x
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\8260B-H2OAFC.m
Meth Date : 10-Nov-2010 21:27 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

							AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
* 60 Fluorobenzene	96	8.354	8.354	(1.000)	2062674	12.5000		
* 85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	400457	12.5000		
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	476981	12.5000		(Q)
$ 49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	20911	0.50000	0.519330	
$ 55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	19822	0.50000	0.513670(a)	
$ 73 Toluene-d8	98	9.499	9.499	(0.895)	97314	0.50000	0.531472(a)	
$ 96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	28156	0.50000	0.550396	
6 1,2-Dichlorotetrafluoroethane	85	4.722	4.722	(0.565)	25143	0.50000	0.507448	
9 Ethylene Oxide	43	Compound Not Detected.						
12 Dichlorofluoromethane	67	5.560	5.560	(0.666)	59014	0.50000	0.552573(a)	
15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.826	(0.697)	31817	0.50000	0.559409(a)	
17 Ethyl Ether	59	5.868	5.868	(0.702)	10666	0.50000	0.507055(a)	
16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.854	(0.701)	49468	0.50000	0.558084(a)	
19 Propylene Oxide	58	5.951	5.951	(0.712)	50463	25.0000	26.8665	
20 Trichlorotrifluoroethane	151	6.119	6.119	(0.733)	27084	0.50000	0.541776(a)	
21 2-propanol	45	Compound Not Detected.						
26 Methyl Acetate	43	6.342	6.342	(0.759)	24732	2.50000	2.51779	
27 Allyl Chloride	41	6.412	6.412	(0.768)	46966	0.50000	0.534682(a)	
28 Carbon Disulfide	76	6.440	6.440	(0.771)	114071	0.50000	0.544309(a)	
32 Methyl t-butyl ether	73	6.678	6.678	(0.799)	25562	0.50000	0.435042(a)	
34 Hexane	57	6.915	6.915	(0.651)	43067	0.50000	0.483303(a)	
35 Vinyl acetate	43	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
39 ETBE	59	7.278	7.278	(0.871)	174700	2.50000	2.16113
40 Ethyl Acetate	43	7.278	7.278	(0.871)	23499	1.00000	1.79829(a)
48 Tetrahydrofuran	42	7.725	7.725	(0.925)	3955	1.00000	1.08762(a)
52 Cyclohexane	56	8.004	8.004	(0.958)	52029	0.50000	0.481083(a)
56 TAME	73	8.172	8.172	(0.978)	110603	2.50000	3.61865
62 2-Pentanone	43	8.647	8.647	(1.035)	14792	2.00000	1.71571(a)
65 Methyl Cyclohexane	55	8.828	8.828	(1.057)	46984	0.50000	0.495698(a)
63 Methyl Methacrylate	100	8.745	8.745	(1.047)	2428	1.00000	1.47088(Q)
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
75 Ethyl methacrylate	69	9.610	9.610	(0.905)	13944	1.00000	1.92166
82 Tetrahydrothiophene	60	10.211	10.211	(0.962)	3268	0.50000	1.02436
94 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
98 t-1,4-Dichloro-2-butene	53	11.580	11.580	(0.923)	1205	0.50000	0.786662(aQ)
112 1,2,3-Trimethylbenzene	105	12.571	12.571	(1.002)	72424	0.50000	0.459480(a)

QC Flag Legend

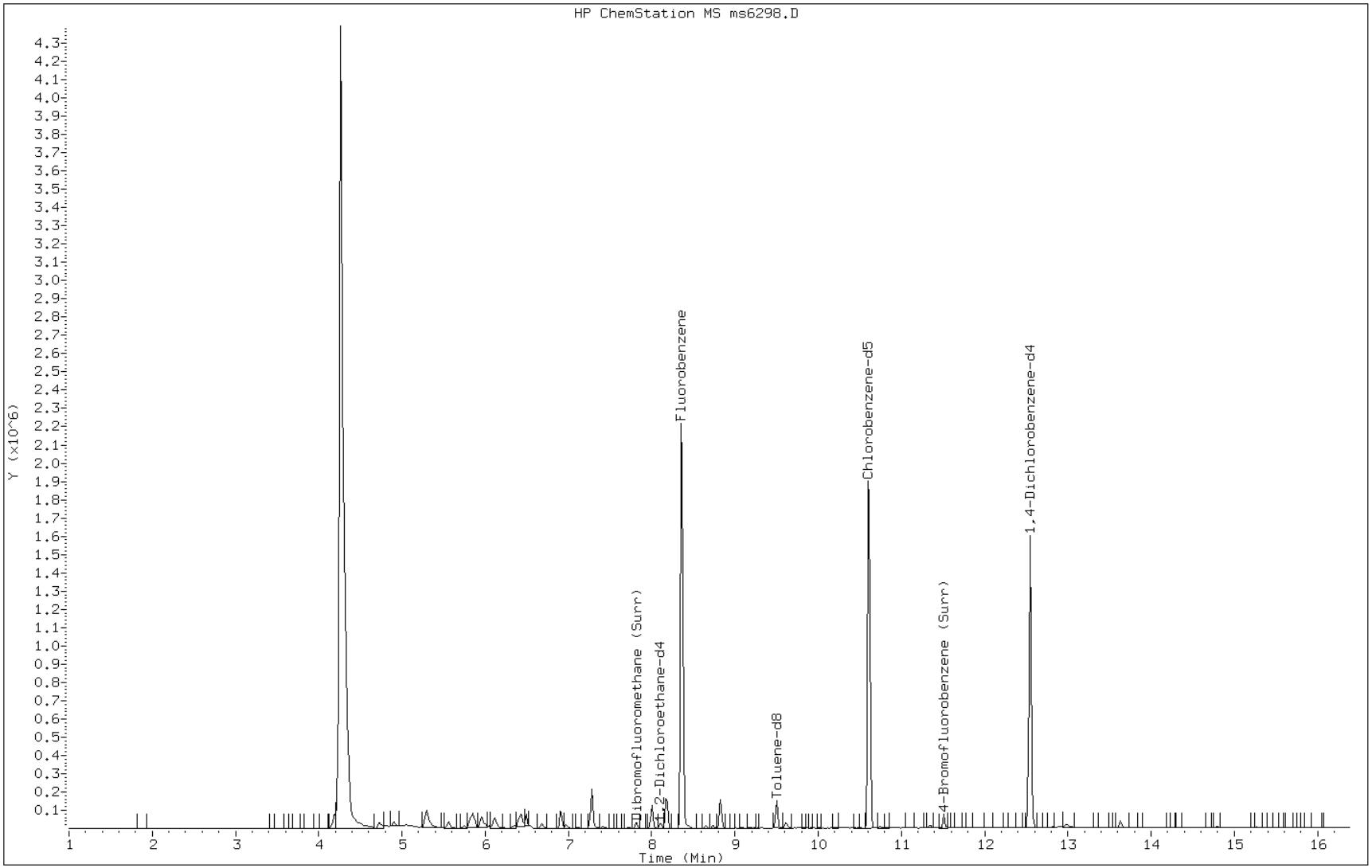
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms6298.D

Date: 10-NOV-2010 18:01

Client ID: Instrument: GCMS1.i

Sample Info: IC,,S0.5 2.5uL 10x Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\ms6299.D
Lab Smp Id: IC
Inj Date : 10-NOV-2010 18:22
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,S1.0 5uL 10x
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\8260B-H2OAFC.m
Meth Date : 10-Nov-2010 21:27 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 18:01 Cal File: ms6298.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	8.353	8.353	(1.000)	2115469	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	411898	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	492129	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.808	7.808	(0.935)	40514	1.00000	0.981064
$ 55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	38796	1.00000	0.980274(a)
$ 73 Toluene-d8	98	9.498	9.498	(0.895)	178809	1.00000	0.949425(a)
$ 96 4-Bromofluorobenzene (Surr)	95	11.509	11.509	(0.918)	48456	1.00000	0.918067
6 1,2-Dichlorotetrafluoroethane	85	4.722	4.722	(0.565)	45901	1.00000	0.903277
9 Ethylene Oxide	43	5.295	5.295	(0.634)	117178	125.000	127.998
12 Dichlorofluoromethane	67	5.560	5.560	(0.666)	106906	1.00000	0.976024(a)
15 1,2-dichloro-1,1,2-trifluoroe	117	5.825	5.825	(0.697)	58276	1.00000	0.999043(a)
17 Ethyl Ether	59	5.867	5.867	(0.702)	19657	1.00000	0.911160(a)
16 2,2-dichloro-1,1,1-trifluoroe	83	5.853	5.853	(0.701)	88806	1.00000	0.976881(a)
19 Propylene Oxide	58	5.951	5.951	(0.712)	101695	50.0000	44.6661
20 Trichlorotrifluoroethane	151	6.119	6.119	(0.732)	51171	1.00000	0.998056(a)
21 2-propanol	45	6.105	6.105	(0.731)	14143	20.0000	19.3566(a)
26 Methyl Acetate	43	6.342	6.342	(0.759)	47836	5.00000	4.74831
27 Allyl Chloride	41	6.398	6.398	(0.766)	85336	1.00000	0.947258(a)
28 Carbon Disulfide	76	6.440	6.440	(0.771)	209361	1.00000	0.974070(a)
32 Methyl t-butyl ether	73	6.677	6.677	(0.799)	49248	1.00000	0.817239(a)
34 Hexane	57	6.901	6.901	(0.650)	84482	1.00000	0.921733(a)
35 Vinyl acetate	43	6.970	6.970	(0.834)	60671	2.00000	1.78472(a)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 ETBE	59	7.278	7.278	(0.871)	340710	5.00000	4.10957
40 Ethyl Acetate	43	7.403	7.403	(0.886)	23935	2.00000	1.78594(a)
48 Tetrahydrofuran	42	7.725	7.725	(0.925)	7681	2.00000	2.05956(a)
52 Cyclohexane	56	8.004	8.004	(0.958)	100172	1.00000	0.903119(a)
56 TAME	73	8.172	8.172	(0.978)	224217	5.00000	5.23975
62 2-Pentanone	43	8.646	8.646	(1.035)	30242	4.00000	3.42019(a)
65 Methyl Cyclohexane	55	8.828	8.828	(1.057)	90023	1.00000	0.926072(a)
63 Methyl Methacrylate	100	8.744	8.744	(1.047)	5289	2.00000	2.10888
69 2-nitropropane	41	9.079	9.079	(0.855)	3137	1.00000	0.994007(aQ)
70 2-Chloroethyl vinyl ether	63	9.079	9.079	(0.855)	3045	1.00000	1.24710(aM)
75 Ethyl methacrylate	69	9.610	9.610	(0.905)	29641	2.00000	2.49164
82 Tetrahydrothiophene	60	10.197	10.197	(0.961)	7645	1.00000	1.34340
94 cis-1,4-dichloro-2-butene	53	11.356	11.356	(0.905)	3479	1.00000	1.24253
98 t-1,4-Dichloro-2-butene	53	11.579	11.579	(0.923)	3234	1.00000	1.20653(Q)
112 1,2,3-Trimethylbenzene	105	12.571	12.571	(1.002)	146836	1.00000	0.902899(a)

QC Flag Legend

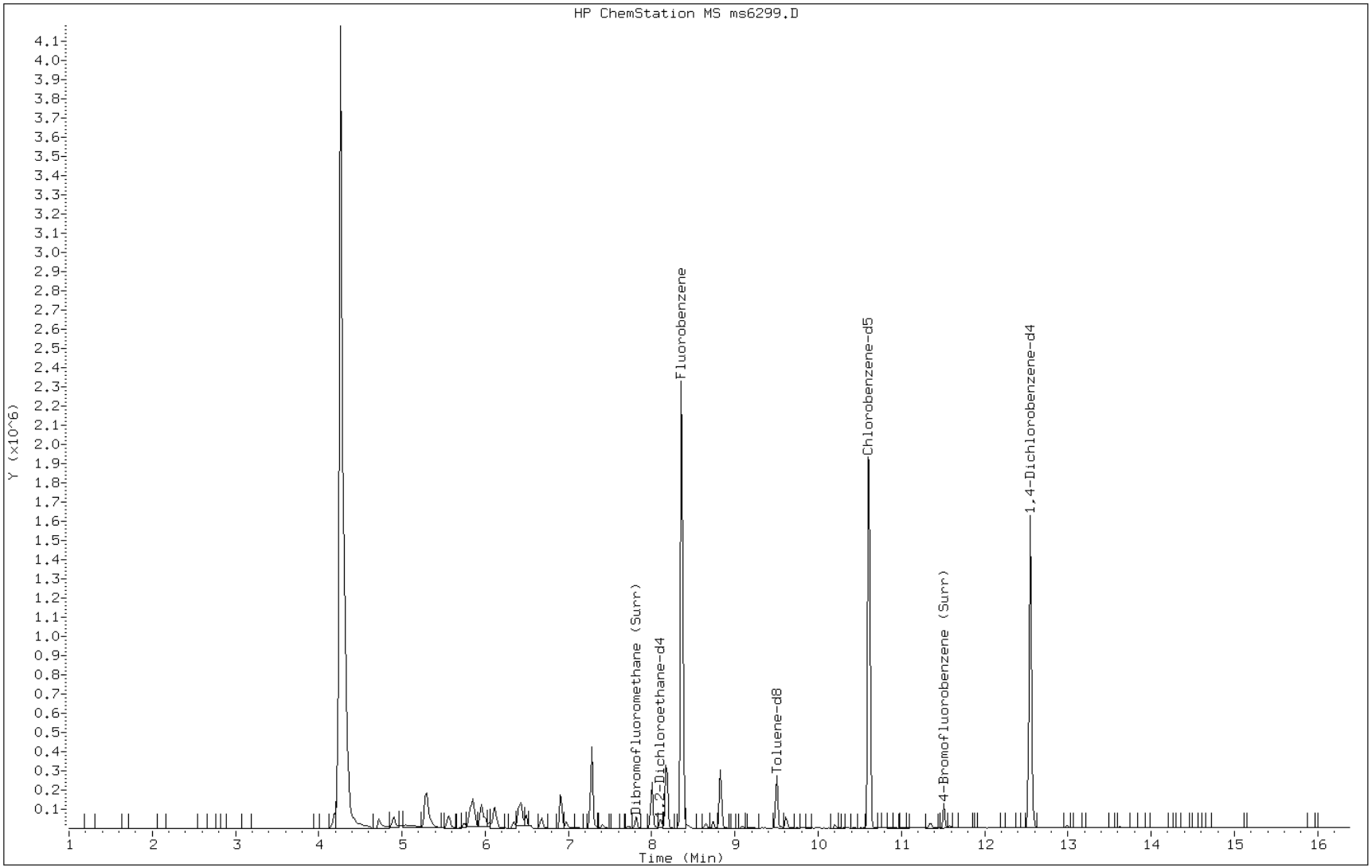
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: ms6299.D

Date: 10-NOV-2010 18:22

Client ID: Instrument: GCMS1.i

Sample Info: IC,,S1.0 5uL 10x Operator: RYERSONJ



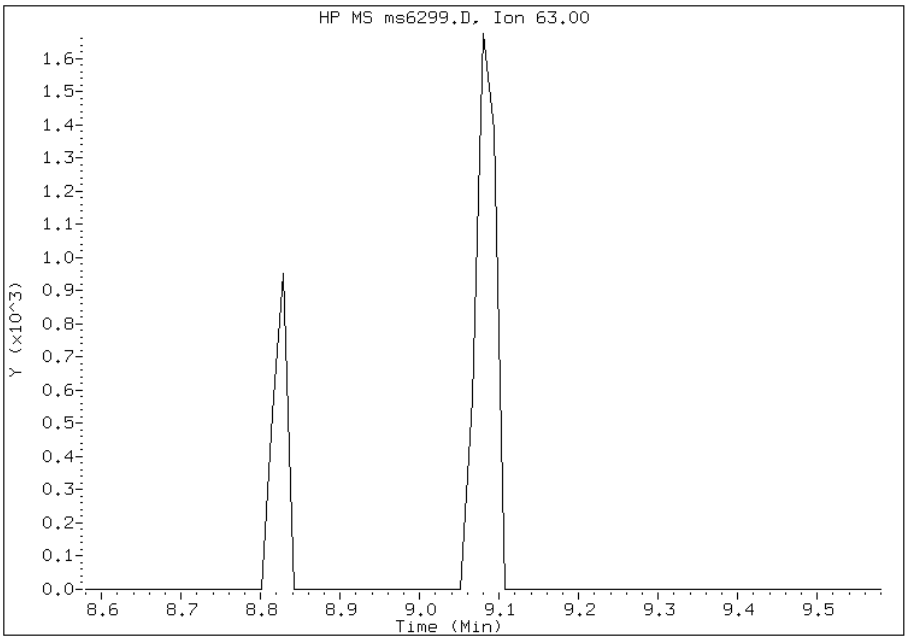
Manual Integration Report

Data File: ms6299.D
Inj. Date and Time: 10-NOV-2010 18:22
Instrument ID: GCMS1.i
Client ID:
Compound: 70 2-Chloroethyl vinyl ether
CAS #: 110-75-8
Report Date: 11/10/2010

Processing Integration Results

Not Detected

Expected RT: 9.08



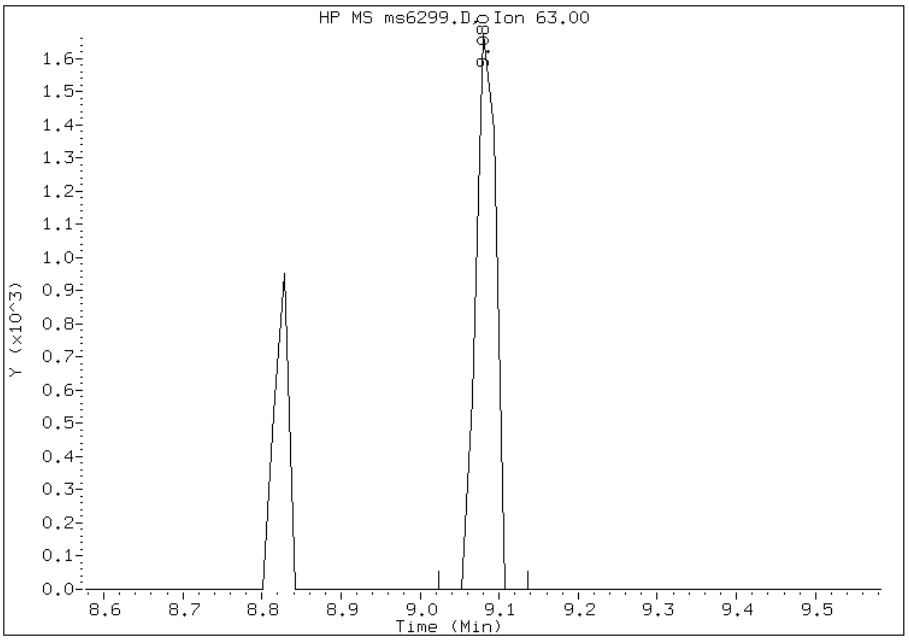
Manual Integration Results

RT: 9.08

Response: 3045

Amount: 1

Conc: 1



Manually Integrated By: ryersonj
Manual Integration Reason: Analyte not Identified by the Data System

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VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\ms6300.D
Lab Smp Id: IC
Inj Date : 10-NOV-2010 18:42
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,S2.0 10uL 10X
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\8260B-H2OAFC.m
Meth Date : 10-Nov-2010 21:27 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 18:22 Cal File: ms6299.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 60 Fluorobenzene	96	8.353	8.353	(1.000)	1988105	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	393773	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	492142	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	74452	2.00000	1.91839
$ 55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	74230	2.00000	1.99576
$ 73 Toluene-d8	98	9.499	9.499	(0.895)	336257	2.00000	1.86761
$ 96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	93529	2.00000	1.77199
6 1,2-Dichlorotetrafluoroethane	85	4.722	4.722	(0.565)	75585	2.00000	1.58271
9 Ethylene Oxide	43	5.295	5.295	(0.634)	217191	250.000	252.444
12 Dichlorofluoromethane	67	5.560	5.560	(0.666)	190005	2.00000	1.84583(a)
15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.826	(0.697)	97155	2.00000	1.77226
17 Ethyl Ether	59	5.867	5.867	(0.702)	38503	2.00000	1.89906(a)
16 2,2-dichloro-1,1,1-trifluoroe	83	5.853	5.853	(0.701)	155572	2.00000	1.82095
19 Propylene Oxide	58	5.951	5.951	(0.712)	214283	100.000	89.6870
20 Trichlorotrifluoroethane	151	6.119	6.119	(0.733)	85369	2.00000	1.77174
21 2-propanol	45	6.105	6.105	(0.731)	27701	40.0000	40.3414
26 Methyl Acetate	43	6.342	6.342	(0.759)	92003	10.0000	9.71747
27 Allyl Chloride	41	6.412	6.412	(0.768)	155584	2.00000	1.83767(a)
28 Carbon Disulfide	76	6.440	6.440	(0.771)	368339	2.00000	1.82352
32 Methyl t-butyl ether	73	6.677	6.677	(0.799)	99885	2.00000	1.76371(a)
34 Hexane	57	6.901	6.901	(0.650)	147291	2.00000	1.68097
35 Vinyl acetate	43	6.971	6.971	(0.834)	118217	4.00000	3.70028

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39 ETBE	59	7.278	7.278	(0.871)	703665	10.0000	9.03120
40 Ethyl Acetate	43	7.404	7.404	(0.886)	47659	4.00000	3.78396(a)
48 Tetrahydrofuran	42	7.725	7.725	(0.925)	13252	4.00000	3.78098(a)
52 Cyclohexane	56	8.004	8.004	(0.958)	176125	2.00000	1.68961(a)
56 TAME	73	8.172	8.172	(0.978)	452492	10.0000	9.00430
62 2-Pentanone	43	8.647	8.647	(1.035)	61217	8.00000	7.36681
65 Methyl Cyclohexane	55	8.828	8.828	(1.057)	160664	2.00000	1.75864
63 Methyl Methacrylate	100	8.744	8.744	(1.047)	11723	4.00000	3.74671(Q)
69 2-nitropropane	41	9.080	9.080	(0.855)	5546	2.00000	1.83822(a)
70 2-Chloroethyl vinyl ether	63	9.080	9.080	(0.855)	5829	2.00000	1.73850(a)
75 Ethyl methacrylate	69	9.610	9.610	(0.905)	61473	4.00000	3.78303
82 Tetrahydrothiophene	60	10.197	10.197	(0.961)	14743	2.00000	1.92258
94 cis-1,4-dichloro-2-butene	53	11.356	11.356	(0.905)	7443	2.00000	2.01042
98 t-1,4-Dichloro-2-butene	53	11.580	11.580	(0.923)	6009	2.00000	1.79177
112 1,2,3-Trimethylbenzene	105	12.571	12.571	(1.002)	291164	2.00000	1.79033

QC Flag Legend

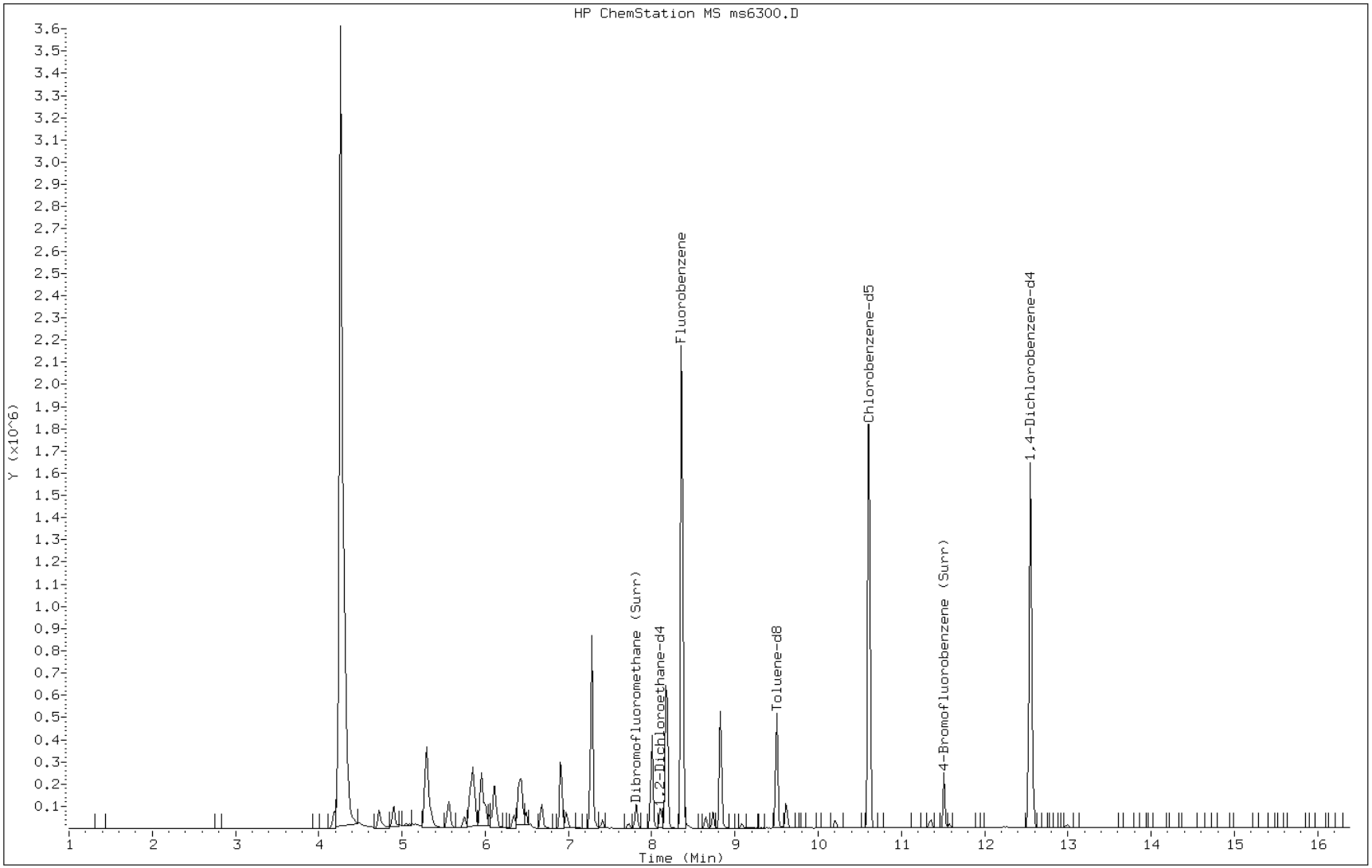
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms6300.D

Date: 10-NOV-2010 18:42

Client ID: Instrument: GCMS1.i

Sample Info: IC,,S2.0 10uL 10X Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\ms6301.D
Lab Smp Id: IC
Inj Date : 10-NOV-2010 19:03
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,S5.0 2.5uL
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\8260B-H2OAFC.m
Meth Date : 10-Nov-2010 21:27 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 18:42 Cal File: ms6300.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	8.353	8.353	(1.000)	2070034	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	413160	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	510246	12.5000	
$	49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	208029	5.00000	5.14808
$	55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	198842	5.00000	5.13450
$	73 Toluene-d8	98	9.499	9.499	(0.895)	972316	5.00000	5.14695
$	96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	279021	5.00000	5.09874
	6 1,2-Dichlorotetrafluoroethane	85	4.722	4.722	(0.565)	278143	5.00000	5.59366
	9 Ethylene Oxide	43	5.295	5.295	(0.634)	622731	625.000	695.161
	12 Dichlorofluoromethane	67	5.560	5.560	(0.666)	550282	5.00000	5.13420
	15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.826	(0.697)	290168	5.00000	5.08362
	17 Ethyl Ether	59	5.867	5.867	(0.702)	109550	5.00000	5.18942
	16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.854	(0.701)	456785	5.00000	5.13500
	19 Propylene Oxide	58	5.951	5.951	(0.712)	674369	250.000	254.052
	20 Trichlorotrifluoroethane	151	6.119	6.119	(0.733)	263783	5.00000	5.25784
	21 2-propanol	45	6.105	6.105	(0.731)	65581	100.000	91.7267
	26 Methyl Acetate	43	6.342	6.342	(0.759)	246228	25.0000	24.9776
	27 Allyl Chloride	41	6.412	6.412	(0.768)	444428	5.00000	5.04158
	28 Carbon Disulfide	76	6.440	6.440	(0.771)	1110209	5.00000	5.27872
	32 Methyl t-butyl ether	73	6.678	6.678	(0.799)	297016	5.00000	5.03697
	34 Hexane	57	6.901	6.901	(0.650)	498061	5.00000	5.41745
	35 Vinyl acetate	43	6.971	6.971	(0.834)	359514	10.0000	10.8077

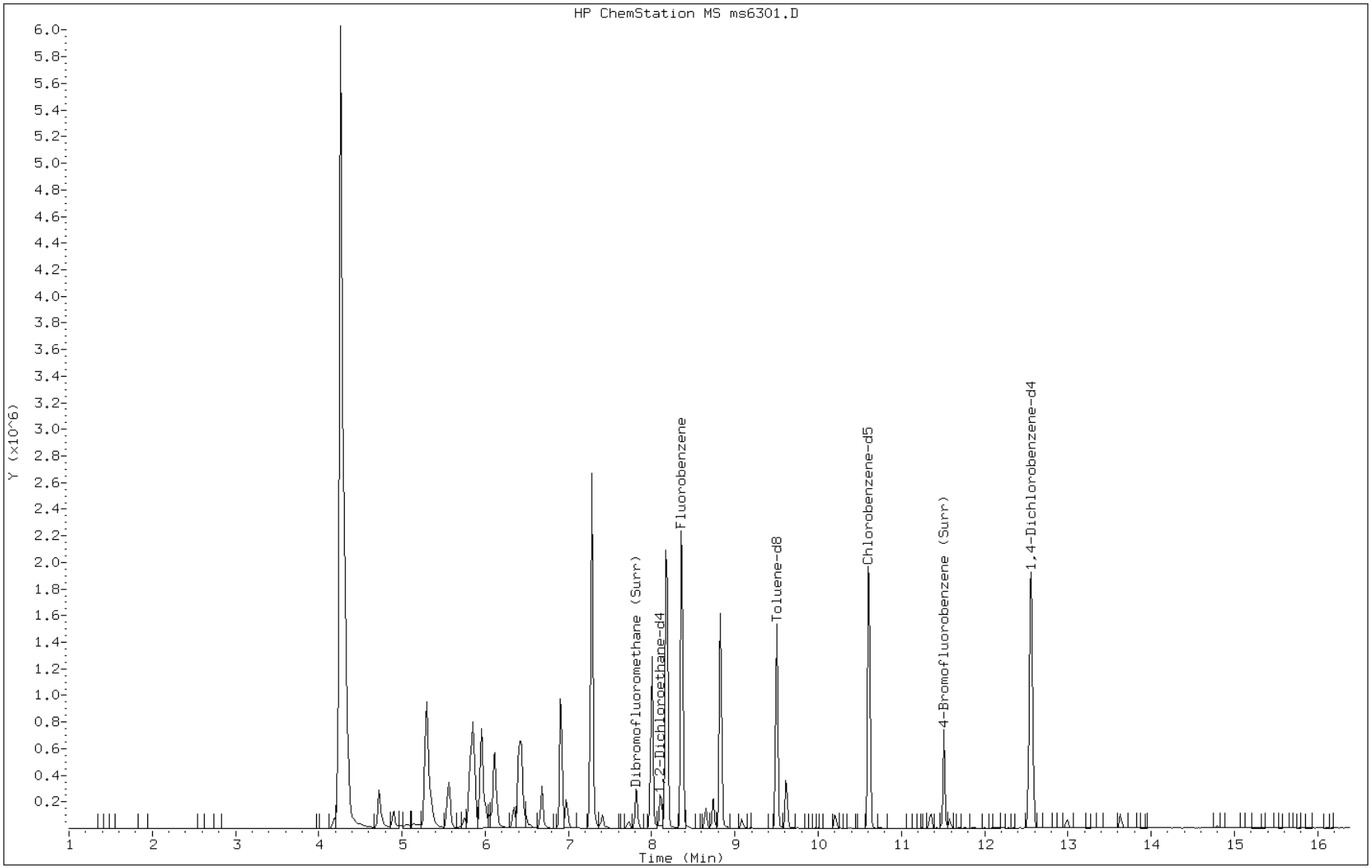
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39	ETBE	59	7.278	7.278	(0.871)	2250841	25.0000	27.7451
40	Ethyl Acetate	43	7.404	7.404	(0.886)	132114	10.0000	10.0742
48	Tetrahydrofuran	42	7.725	7.725	(0.925)	34137	10.0000	9.35428
52	Cyclohexane	56	8.004	8.004	(0.958)	580778	5.00000	5.35104
56	TAME	73	8.172	8.172	(0.978)	1516987	25.0000	24.6442
62	2-Pentanone	43	8.647	8.647	(1.035)	164170	20.0000	18.9742
65	Methyl Cyclohexane	55	8.828	8.828	(1.057)	514613	5.00000	5.41005
63	Methyl Methacrylate	100	8.745	8.745	(1.047)	34704	10.0000	8.98768
69	2-nitropropane	41	9.080	9.080	(0.855)	15771	5.00000	4.98202
70	2-Chloroethyl vinyl ether	63	9.080	9.080	(0.855)	20950	5.00000	4.11937
75	Ethyl methacrylate	69	9.610	9.610	(0.905)	200092	10.0000	8.81936
82	Tetrahydrothiophene	60	10.197	10.197	(0.961)	46327	5.00000	4.21380
94	cis-1,4-dichloro-2-butene	53	11.356	11.356	(0.905)	20849	5.00000	4.46414
98	t-1,4-Dichloro-2-butene	53	11.580	11.580	(0.923)	20784	5.00000	4.75236
112	1,2,3-Trimethylbenzene	105	12.571	12.571	(1.002)	884803	5.00000	5.24750

Data File: ms6301.D

Date: 10-NOV-2010 19:03

Client ID: Instrument: GCMS1.i

Sample Info: IC,,S5.0 2.5uL Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\ms6302.D
Lab Smp Id: IC
Inj Date : 10-NOV-2010 19:23
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : ICIS,,S10 5uL
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\8260B-H2OAFC.m
Meth Date : 10-Nov-2010 21:27 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 19:03 Cal File: ms6301.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	8.353	8.353	(1.000)	2095778	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	416232	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	534262	12.5000	
$	49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	499564	12.0000	12.2108
$	55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	474963	12.0000	12.1138
$	73 Toluene-d8	98	9.499	9.499	(0.895)	2374712	12.0000	12.4778
$	96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	719136	12.0000	12.5505
	6 1,2-Dichlorotetrafluoroethane	85	4.722	4.722	(0.565)	512364	10.0000	10.1774
	9 Ethylene Oxide	43	5.295	5.295	(0.634)	1227226	1250.00	1353.14
	12 Dichlorofluoromethane	67	5.560	5.560	(0.666)	1074296	10.0000	9.90019
	15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.826	(0.697)	555527	10.0000	9.61304
	17 Ethyl Ether	59	5.867	5.867	(0.702)	213965	10.0000	10.0111
	16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.854	(0.701)	865065	10.0000	9.60527
	19 Propylene Oxide	58	5.951	5.951	(0.712)	1429925	500.000	522.857
	20 Trichlorotrifluoroethane	151	6.105	6.105	(0.731)	493173	10.0000	9.70939
	21 2-propanol	45	6.119	6.119	(0.733)	149761	200.000	206.894
	26 Methyl Acetate	43	6.342	6.342	(0.759)	494499	50.0000	49.5462
	27 Allyl Chloride	41	6.398	6.398	(0.766)	898110	10.0000	10.0630
	28 Carbon Disulfide	76	6.440	6.440	(0.771)	2153617	10.0000	10.1140
	32 Methyl t-butyl ether	73	6.678	6.678	(0.799)	635902	10.0000	10.6515
	34 Hexane	57	6.901	6.901	(0.650)	931452	10.0000	10.0567
	35 Vinyl acetate	43	6.971	6.971	(0.834)	703794	20.0000	20.8975

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39	ETBE	59	7.278	7.278	(0.871)	4856298	50.0000	59.1260
40	Ethyl Acetate	43	7.404	7.404	(0.886)	269365	20.0000	20.2879
48	Tetrahydrofuran	42	7.725	7.725	(0.925)	69656	20.0000	18.8528
52	Cyclohexane	56	8.004	8.004	(0.958)	1133891	10.0000	10.3188
56	TAME	73	8.172	8.172	(0.978)	3374670	50.0000	51.8046
62	2-Pentanone	43	8.647	8.647	(1.035)	354978	40.0000	40.5231
65	Methyl Cyclohexane	55	8.828	8.828	(1.057)	973943	10.0000	10.1131
63	Methyl Methacrylate	100	8.745	8.745	(1.047)	77990	20.0000	18.8482
69	2-nitropropane	41	9.080	9.080	(0.855)	30733	10.0000	9.63682
70	2-Chloroethyl vinyl ether	63	9.080	9.080	(0.855)	61732	10.0000	10.5918
75	Ethyl methacrylate	69	9.610	9.610	(0.905)	460828	20.0000	18.3776
82	Tetrahydrothiophene	60	10.197	10.197	(0.961)	105422	10.0000	8.54384
94	cis-1,4-dichloro-2-butene	53	11.356	11.356	(0.905)	45043	10.0000	8.60640
98	t-1,4-Dichloro-2-butene	53	11.580	11.580	(0.923)	46147	10.0000	9.48977
112	1,2,3-Trimethylbenzene	105	12.571	12.571	(1.002)	1874965	10.0000	10.6200

Data File: ms6302.D

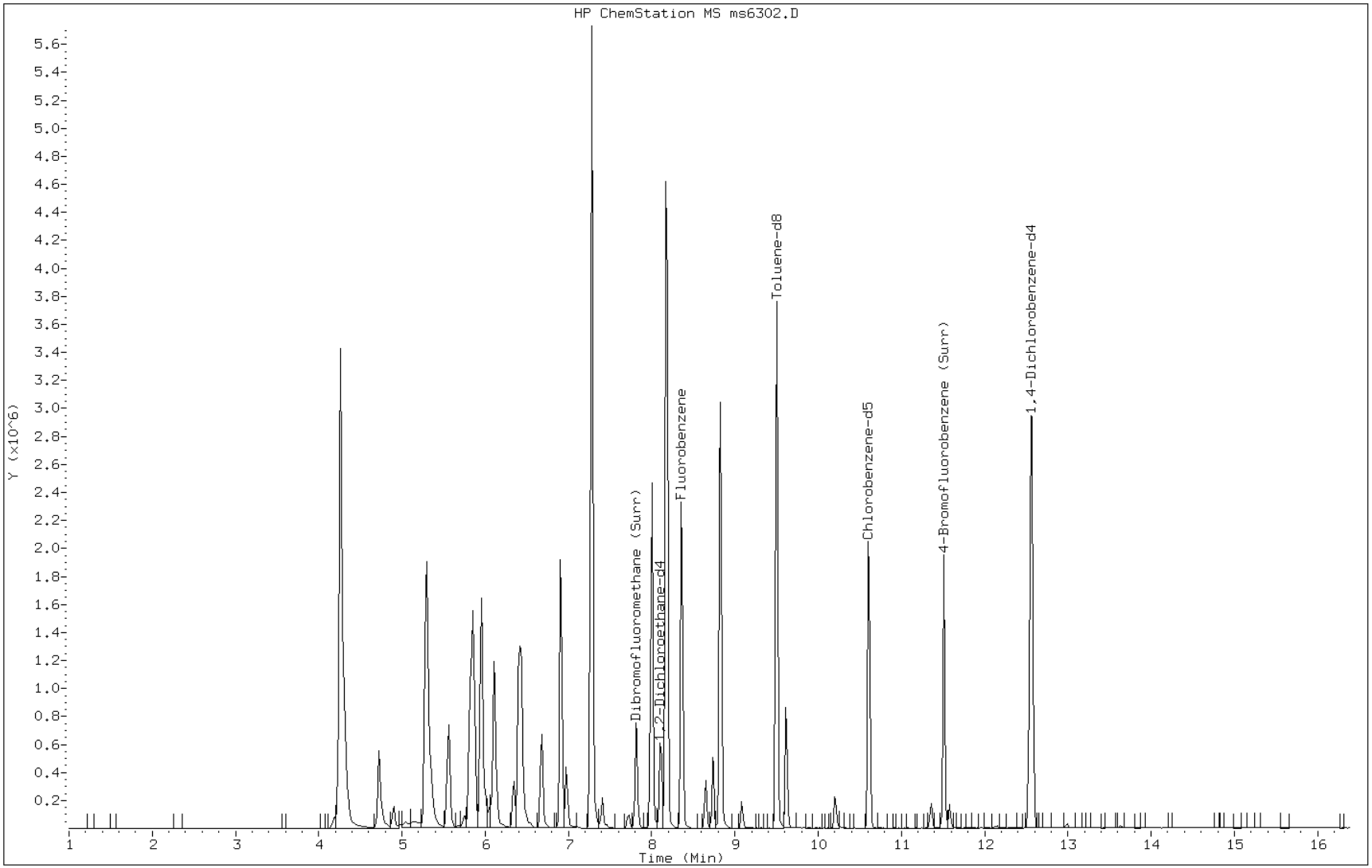
Date: 10-NOV-2010 19:23

Client ID:

Instrument: GCMS1.i

Sample Info: ICIS,,S10 5uL

Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\ms6303.D
Lab Smp Id: IC
Inj Date : 10-NOV-2010 19:44
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,S30 15uL
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\8260B-H2OAFC.m
Meth Date : 10-Nov-2010 21:27 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 19:23 Cal File: ms6302.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 60 Fluorobenzene	96	8.354	8.354	(1.000)	2153406	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	437094	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	552577	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	851289	20.0000	20.2512
$ 55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	789461	20.0000	19.5962
$ 73 Toluene-d8	98	9.499	9.499	(0.895)	3825049	20.0000	19.1392
$ 96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	1192994	20.0000	20.1303
6 1,2-Dichlorotetrafluoroethane	85	4.722	4.722	(0.565)	1687564	30.0000	32.6242
9 Ethylene Oxide	43	5.295	5.295	(0.634)	3354726	3750.00	3599.93
12 Dichlorofluoromethane	67	5.560	5.560	(0.666)	3327531	30.0000	29.8443
15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.826	(0.697)	1804906	30.0000	30.3969
17 Ethyl Ether	59	5.868	5.868	(0.702)	691248	30.0000	31.4769
16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.854	(0.701)	2808114	30.0000	30.3455
19 Propylene Oxide	58	5.951	5.951	(0.712)	4363529	1500.00	1536.25
20 Trichlorotrifluoroethane	151	6.119	6.119	(0.733)	1635840	30.0000	31.3439
21 2-propanol	45	6.105	6.105	(0.731)	454617	600.000	611.244
26 Methyl Acetate	43	6.342	6.342	(0.759)	1598327	150.000	155.858
27 Allyl Chloride	41	6.398	6.398	(0.766)	2795482	30.0000	30.4841
28 Carbon Disulfide	76	6.440	6.440	(0.771)	6845281	30.0000	31.2872
32 Methyl t-butyl ether	73	6.678	6.678	(0.799)	2122466	30.0000	34.6005
34 Hexane	57	6.901	6.901	(0.650)	3171747	30.0000	32.6103
35 Vinyl acetate	43	6.971	6.971	(0.834)	2175156	60.0000	62.8578

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 ETBE	59	7.278	7.278	(0.871)	14637311	150.000	173.442
40 Ethyl Acetate	43	7.404	7.404	(0.886)	869325	60.0000	63.7232
48 Tetrahydrofuran	42	7.725	7.725	(0.925)	232979	60.0000	61.3696
52 Cyclohexane	56	8.004	8.004	(0.958)	3738067	30.0000	33.1075
56 TAME	73	8.172	8.172	(0.978)	10849128	150.000	157.918
62 2-Pentanone	43	8.647	8.647	(1.035)	1202091	120.000	133.554
65 Methyl Cyclohexane	55	8.828	8.828	(1.057)	3165170	30.0000	31.9867
63 Methyl Methacrylate	100	8.745	8.745	(1.047)	278937	60.0000	63.3670
69 2-nitropropane	41	9.080	9.080	(0.855)	103485	30.0000	30.9006
70 2-Chloroethyl vinyl ether	63	9.080	9.080	(0.855)	192872	30.0000	30.0179
75 Ethyl methacrylate	69	9.611	9.611	(0.905)	1637826	60.0000	58.8903
82 Tetrahydrothiophene	60	10.197	10.197	(0.961)	395980	30.0000	28.5656
94 cis-1,4-dichloro-2-butene	53	11.356	11.356	(0.905)	163160	30.0000	28.7191
98 t-1,4-Dichloro-2-butene	53	11.580	11.580	(0.923)	153077	30.0000	29.2782
112 1,2,3-Trimethylbenzene	105	12.571	12.571	(1.002)	5871412	30.0000	32.1540

Data File: ms6303.D

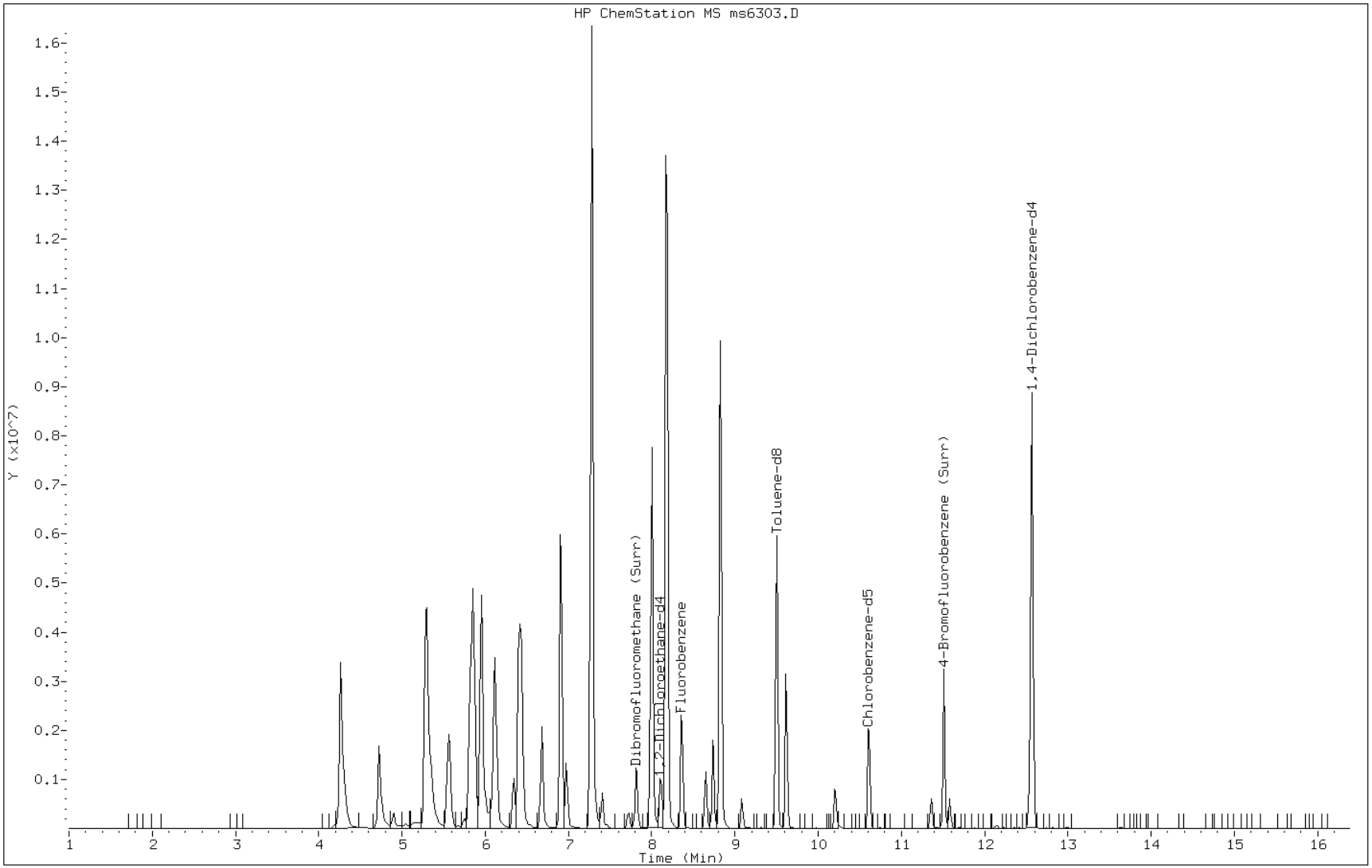
Date: 10-NOV-2010 19:44

Client ID:

Instrument: GCMS1.i

Sample Info: IC,,S30 15uL

Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\ms6304.D
Lab Smp Id: IC
Inj Date : 10-NOV-2010 20:04
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,S60 30uL
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\8260B-H2OAFC.m
Meth Date : 10-Nov-2010 21:27 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 19:44 Cal File: ms6303.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	8.353	8.353	(1.000)	2230556	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	437916	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	577246	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	1369902	30.0000	31.4612
$ 55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	1234275	30.0000	29.5778
$ 73 Toluene-d8	98	9.499	9.499	(0.895)	6247371	30.0000	31.2009
$ 96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	1935023	30.0000	31.2558
6 1,2-Dichlorotetrafluoroethane	85	4.722	4.722	(0.565)	3428695	60.0000	63.9913(A)
9 Ethylene Oxide	43	5.281	5.281	(0.632)	5874854	7500.00	6086.20
12 Dichlorofluoromethane	67	5.560	5.560	(0.666)	6820307	60.0000	59.0549
15 1,2-dichloro-1,1,2-trifluoroe	117	5.811	5.811	(0.696)	3707849	60.0000	60.2851(A)
17 Ethyl Ether	59	5.867	5.867	(0.702)	1415301	60.0000	62.2185(A)
16 2,2-dichloro-1,1,1-trifluoroe	83	5.853	5.853	(0.701)	5736416	60.0000	59.8458
19 Propylene Oxide	58	5.951	5.951	(0.712)	9011641	3000.00	3054.60(A)
20 Trichlorotrifluoroethane	151	6.119	6.119	(0.733)	3401795	60.0000	62.9264(A)
21 2-propanol	45	6.105	6.105	(0.731)	973621	1200.00	1263.78(A)
26 Methyl Acetate	43	6.342	6.342	(0.759)	3321810	300.000	312.718(A)
27 Allyl Chloride	41	6.398	6.398	(0.766)	5891896	60.0000	62.0275(A)
28 Carbon Disulfide	76	6.426	6.426	(0.769)	13653651	60.0000	60.2472(A)
32 Methyl t-butyl ether	73	6.677	6.677	(0.799)	4593624	60.0000	72.2952(A)
34 Hexane	57	6.901	6.901	(0.650)	6402161	60.0000	65.7002(A)
35 Vinyl acetate	43	6.971	6.971	(0.834)	4341295	120.000	121.116(A)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 ETBE	59	7.278	7.278	(0.871)	25226128	300.000	288.573
40 Ethyl Acetate	43	7.404	7.404	(0.886)	1826570	120.000	129.260(A)
48 Tetrahydrofuran	42	7.725	7.725	(0.925)	489083	120.000	124.375(A)
52 Cyclohexane	56	8.004	8.004	(0.958)	7608192	60.0000	65.0539(A)
56 TAME	73	8.172	8.172	(0.978)	20584392	300.000	287.631
62 2-Pentanone	43	8.647	8.647	(1.035)	2571781	240.000	275.846(A)
65 Methyl Cyclohexane	55	8.828	8.828	(1.057)	6418410	60.0000	62.6199(A)
63 Methyl Methacrylate	100	8.744	8.744	(1.047)	596014	120.000	129.755(A)
69 2-nitropropane	41	9.080	9.080	(0.855)	220798	60.0000	65.8065(A)
70 2-Chloroethyl vinyl ether	63	9.080	9.080	(0.855)	500544	60.0000	76.5528(A)
75 Ethyl methacrylate	69	9.610	9.610	(0.905)	3474116	120.000	123.132(A)
82 Tetrahydrothiophene	60	10.197	10.197	(0.961)	884830	60.0000	62.7587(A)
94 cis-1,4-dichloro-2-butene	53	11.356	11.356	(0.905)	374911	60.0000	62.4889(A)
98 t-1,4-Dichloro-2-butene	53	11.580	11.580	(0.923)	338174	60.0000	61.3318(A)
112 1,2,3-Trimethylbenzene	105	12.571	12.571	(1.002)	11658597	60.0000	61.1182(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: ms6304.D

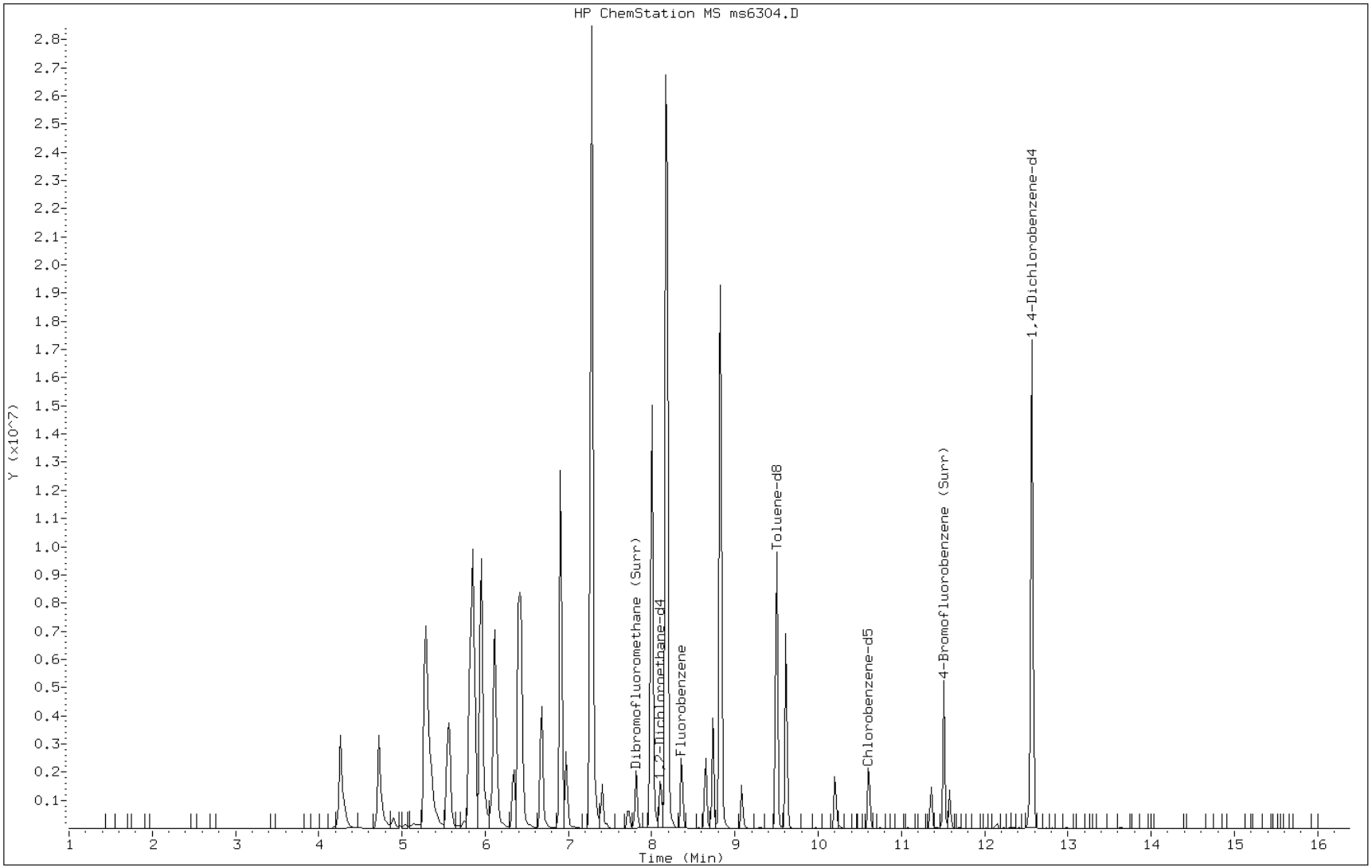
Date: 10-NOV-2010 20:04

Client ID:

Instrument: GCMS1.i

Sample Info: IC,,S60 30uL

Operator: RYERSONJ



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40764

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/12/2010 19:43 Calibration End Date: 11/12/2010 21:46 Calibration ID: 3618

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-40764/2	ms6434.D
Level 2	IC 280-40764/3	ms6435.D
Level 3	IC 280-40764/4	ms6436.D
Level 4	IC 280-40764/5	ms6437.D
Level 5	IC 280-40764/6	ms6438.D
Level 6	IC 280-40764/7	ms6439.D
Level 7	IC 280-40764/8	ms6440.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethene, Total	0.2875 0.3038	0.2936 0.2875	0.2892	0.3054	0.3034	Ave		0.2958				2.8		15.0			
Xylenes, Total	2.4759 2.7660	2.5727 2.4609	2.6277	2.7644	2.5972	Ave		2.6093				4.7		15.0			
Ethanol	+++++ 0.0008	+++++ 0.0007	0.0008	0.0008	0.0008	Ave		0.0008				8.1		15.0			
Dichlorodifluoromethane	0.4338 0.4281	0.3929 0.3860	0.3685	0.4698	0.4210	Ave		0.4143				8.3		15.0			
Chloromethane	0.4640 0.4251	0.4652 0.3776	0.4354	0.4563	0.4252	Ave		0.4355			0.1000	7.1		15.0			
Vinyl chloride	+++++ 0.4421	0.4643 0.3913	0.4588	0.4882	0.4378	Ave		0.4471				7.3		30.0			
Bromomethane	0.2411 0.2408	0.2267 0.2265	0.2292	0.2432	0.2409	Ave		0.2355				3.2		15.0			
Chloroethane	0.2808 0.2745	0.2745 0.2628	0.2697	0.2860	0.2738	Ave		0.2746				2.7		15.0			
Trichlorofluoromethane	0.7227 0.6163	0.6597 0.5618	0.6319	0.6742	0.6089	Ave		0.6393				8.1		15.0			
Acrolein	+++++ 0.0126	0.0091 0.0123	0.0102	0.0119	0.0122	Ave		0.0114				12.5		15.0			
Acetone	+++++ 0.0296	0.0448 0.0282	0.0387	0.0344	0.0317	Lin2	-0.171	0.0297							0.9974		0.9900
1,1-Dichloroethene	0.2505 0.2669	0.2608 0.2447	0.2413	0.2667	0.2556	Ave		0.2552				4.0		30.0			
1,4-Dioxane	+++++ 0.0006	+++++ 0.0006	0.0005	0.0006	0.0007	Ave		0.0006				10.9		15.0			
Acetonitrile	+++++ 0.0082	0.0094 0.0076	0.0098	0.0091	0.0089	Ave		0.0088				9.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40764

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/12/2010 19:43 Calibration End Date: 11/12/2010 21:46 Calibration ID: 3618

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Iodomethane	0.2963 0.3296	0.2914 0.3182	0.2941	0.3210	0.3217	Ave		0.3103				5.1		15.0			
2-Butanone (MEK)	+++++ 0.0378	0.0366 0.0381	0.0367	0.0368	0.0380	Ave		0.0373				1.9		15.0			
Propionitrile	+++++ 0.0101	0.0087 0.0100	0.0097	0.0105	0.0105	Ave		0.0099				6.6		15.0			
Tert-butyl alcohol (2-methyl-2-propanol)	+++++ 0.0056	0.0047 0.0057	0.0045	0.0051	0.0054	Ave		0.0052				9.3		15.0			
Methylene Chloride	+++++ 0.2357	0.4207 0.2208	0.3284	0.2739	0.2542	Lin2	-0.068	0.2293							0.9988		0.9900
Acrylonitrile	0.0209 0.0270	0.0248 0.0260	0.0246	0.0266	0.0273	Ave		0.0253				8.7		15.0			
trans-1,2-Dichloroethene	0.3006 0.3110	0.3060 0.2910	0.2959	0.3159	0.3081	Ave		0.3041				2.9		15.0			
Isobutyl alcohol	+++++ 0.0027	0.0026 0.0025	0.0023	0.0029	0.0029	Ave		0.0026				8.9		15.0			
Isopropyl ether	0.1430 0.1851	0.1655 0.1705	0.1739	0.1896	0.1883	Ave		0.1737				9.5		15.0			
1,1-Dichloroethane	0.5918 0.5657	0.5839 0.5267	0.5775	0.5971	0.5820	Ave		0.5749			0.1000	4.1		15.0			
Chloroprene	0.4999 0.6498	0.5274 0.5989	0.5343	0.6339	0.6129	Ave		0.5796				10.1		15.0			
cis-1,2-Dichloroethene	0.2745 0.2967	0.2812 0.2839	0.2825	0.2948	0.2987	Ave		0.2875				3.2		15.0			
2,2-Dichloropropane	0.3911 0.4636	0.3777 0.4291	0.3954	0.4196	0.4280	Ave		0.4149				7.0		15.0			
Methacrylonitrile	+++++ 0.0583	0.0467 0.0554	0.0547	0.0584	0.0600	Ave		0.0556				8.6		15.0			
Bromochloromethane	0.0841 0.0915	0.0822 0.0888	0.0903	0.0903	0.0920	Ave		0.0885				4.3		15.0			
Chloroform	0.5125 0.4983	0.5106 0.4724	0.5208	0.5367	0.5143	Ave		0.5094				3.9		30.0			
1,1,1-Trichloroethane	0.5283 0.5394	0.5201 0.4928	0.5006	0.5439	0.5236	Ave		0.5213				3.6		15.0			
1,1-Dichloropropene	0.4354 0.5040	0.4731 0.4607	0.4564	0.5111	0.4903	Ave		0.4759				5.8		15.0			
Carbon tetrachloride	0.4404 0.4738	0.4550 0.4455	0.4384	0.4929	0.4552	Ave		0.4573				4.3		15.0			
1,2-Dichloroethane	0.2663 0.2684	0.2855 0.2506	0.2865	0.2874	0.2789	Ave		0.2748				5.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40764

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/12/2010 19:43 Calibration End Date: 11/12/2010 21:46 Calibration ID: 3618

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzene	1.2277 1.1920	1.2289 1.0807	1.2525	1.2936	1.2375	Ave		1.2161				5.5		15.0			
n-Butanol	+++++ 0.0021	+++++ 0.0020	0.0032	0.0024	0.0022	Lin2	-3.125	0.0019							0.9986		0.9900
Trichloroethene	0.3291 0.3413	0.3198 0.3297	0.3195	0.3405	0.3250	Ave		0.3293				2.7		15.0			
1,2-Dichloropropane	0.2360 0.2581	0.2406 0.2504	0.2504	0.2575	0.2591	Ave		0.2503				3.6		30.0			
Dibromomethane	0.0729 0.0854	0.0808 0.0840	0.0856	0.0877	0.0843	Ave		0.0829				5.9		15.0			
Bromodichloromethane	0.2609 0.3002	0.2625 0.2904	0.2683	0.2918	0.2917	Ave		0.2808				5.8		15.0			
cis-1,3-Dichloropropene	1.2336 1.7395	1.2581 1.7211	1.3313	1.5256	1.5249	Ave		1.4763				14.1		15.0			
4-Methyl-2-pentanone	+++++ 0.4671	0.3346 0.4658	0.3597	0.4140	0.4267	Ave		0.4113				13.3		15.0			
Toluene	1.4341 1.3075	1.3669 1.1431	1.3392	1.3973	1.3318	Ave		1.3314				7.0		30.0			
trans-1,3-Dichloropropene	0.1612 0.2458	0.1905 0.2437	0.1994	0.2166	0.2321	Ave		0.2128				14.6		15.0			
Bromoform	+++++ 0.3254	0.2572 0.3442	0.2289	0.2662	0.2731	Lin1	0.0419	0.3369			0.1000				0.9955		0.9900
1,1,2-Trichloroethane	+++++ 0.1149	0.1080 0.1134	0.1141	0.1146	0.1162	Ave		0.1135				2.5		15.0			
2-Hexanone	+++++ 0.0646	0.0417 0.0648	0.0468	0.0537	0.0587	Lin2	0.1205	0.0625							0.9957		0.9900
1,3-Dichloropropane	1.0703 1.1789	1.0646 1.1440	1.1493	1.1766	1.1190	Ave		1.1290				4.1		15.0			
1,2,3-Trichloropropane	+++++ 0.1187	0.0945 0.1228	0.1208	0.1221	0.1217	Ave		0.1168				9.4		15.0			
Tetrachloroethene	1.3973 1.4272	1.4193 1.3329	1.3522	1.4014	1.2973	Ave		1.3754				3.5		15.0			
Dibromochloromethane	0.5276 0.7072	0.5544 0.7243	0.5661	0.6234	0.6197	Ave		0.6175				12.2		15.0			
1,2-Dibromoethane (EDB)	0.3613 0.5201	0.4337 0.5236	0.4413	0.4829	0.4728	Ave		0.4622				12.2		15.0			
1-Chlorohexane	1.8219 2.4334	1.8167 2.2133	1.9680	2.2792	2.1507	Ave		2.0976				11.2		15.0			
Chlorobenzene	3.7504 3.7353	3.8214 3.4724	3.8226	3.7581	3.5349	Ave		3.6993			0.3000	3.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40764

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/12/2010 19:43 Calibration End Date: 11/12/2010 21:46 Calibration ID: 3618

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,1,2-Tetrachloroethane	1.0447 1.2214	1.0282 1.1806	1.0775	1.1226	1.1088	Ave		1.1120				6.3		15.0			
Ethylbenzene	2.2020 2.3347	2.1737 2.1441	2.1885	2.2552	2.1323	Ave		2.2044				3.2		30.0			
m-Xylene & p-Xylene	2.6389 2.8331	2.7130 2.4889	2.7684	2.8505	2.6781	Ave		2.7101				4.6		15.0			
o-Xylene	2.1499 2.6319	2.2922 2.4051	2.3463	2.5923	2.4354	Ave		2.4076				7.0		15.0			
Styrene	+++++ 3.6725	2.2577 3.5014	2.6399	3.0679	3.1634	Lin2	0.0306	3.4664							0.9962		0.9900
Isopropylbenzene	5.0207 5.1246	5.0242 4.5772	5.3095	5.6782	5.2989	Ave		5.1476				6.6		15.0			
Cyclohexanone	0.0179 0.0221	0.0161 0.0193	0.0162	0.0183	0.0193	Ave		0.0185				11.2		15.0			
1,1,2,2-Tetrachloroethane	0.4094 0.4101	0.4473 0.4135	0.4525	0.4548	0.4258	Ave		0.4305			0.3000	4.8		15.0			
Bromobenzene	0.9495 0.9215	0.9372 0.9526	0.9798	0.9960	0.9487	Ave		0.9551				2.6		15.0			
n-Propylbenzene	1.4215 1.4984	1.4712 1.4408	1.5218	1.6227	1.5043	Ave		1.4972				4.4		15.0			
1,3,5-Trimethylbenzene	3.9940 4.4562	4.1596 4.0221	4.4362	4.8575	4.5654	Ave		4.3559				7.2		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0518	+++++ 0.0582	0.0384	0.0462	0.0459	Lin2	0.0501	0.0540							0.9936		0.9900
2-Chlorotoluene	1.2242 1.1820	1.2058 1.1545	1.2693	1.2987	1.1949	Ave		1.2185				4.1		15.0			
4-Chlorotoluene	1.0769 1.1507	1.1342 1.1385	1.1662	1.2272	1.1605	Ave		1.1506				3.9		15.0			
tert-Butylbenzene	4.0269 4.6311	4.1685 4.1307	4.5462	4.9472	4.6525	Ave		4.4433				7.6		15.0			
1,2,4-Trimethylbenzene	3.6847 4.4139	4.1884 3.9369	4.4905	4.8433	4.4974	Ave		4.2936				9.1		15.0			
sec-Butylbenzene	0.9641 1.2625	1.2061 1.1716	1.2510	1.3524	1.2682	Ave		1.2108				10.1		15.0			
4-Isopropyltoluene	4.2719 5.0561	4.6345 4.3628	5.0643	5.4802	5.1218	Ave		4.8559				9.1		15.0			
1,3-Dichlorobenzene	2.0343 2.0017	2.0494 1.9471	2.0512	2.1293	2.0376	Ave		2.0358				2.7		15.0			
1,4-Dichlorobenzene	2.1219 1.9312	1.9992 1.8608	2.0715	2.0617	1.9475	Ave		1.9991				4.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40764

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/12/2010 19:43 Calibration End Date: 11/12/2010 21:46 Calibration ID: 3618

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butylbenzene	3.9495 4.8194	4.3210 4.1150	4.7864	5.1874	4.8927	Ave		4.5816				10.0		15.0			
1,2-Dichlorobenzene	1.5802 1.5786	1.5548 1.5314	1.6117	1.6582	1.5962	Ave		1.5873				2.6		15.0			
Naphthalene	+++++ 1.1610	0.7719 1.1756	0.7899	0.8594	0.9705	Lin1	0.0476	1.1691							0.9965		0.9900
1,2,4-Trichlorobenzene	+++++ 1.0886	0.8827 1.0142	0.9496	0.9859	1.0196	Ave		0.9901				7.0		15.0			
Hexachlorobutadiene	1.0122 0.9987	1.0549 0.8662	1.0183	1.0488	0.9900	Ave		0.9985				6.3		15.0			
1,2,3-Trichlorobenzene	0.6356 0.8343	0.7153 0.7829	0.7392	0.7780	0.8037	Ave		0.7556				8.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40764

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/12/2010 19:43 Calibration End Date: 11/12/2010 21:46 Calibration ID: 3618

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-40764/2	ms6434.D
Level 2	IC 280-40764/3	ms6435.D
Level 3	IC 280-40764/4	ms6436.D
Level 4	IC 280-40764/5	ms6437.D
Level 5	IC 280-40764/6	ms6438.D
Level 6	IC 280-40764/7	ms6439.D
Level 7	IC 280-40764/8	ms6440.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethene, Total	FB	Ave	26776 3226950	86116 6834711	171147	482325	979922	0.600 60.0	2.00 120	4.00	10.0	20.0
Xylenes, Total	CBZ	Ave	66732 8849276	225903 17559992	468526	1343435	2671161	0.900 90.0	3.00 180	6.00	15.0	30.0
Ethanol	FB	Ave	+++++ 204588	+++++ 401423	11232	31954	67977	+++++ 1500	+++++ 3000	100	250	500
Dichlorodifluoromethane	FB	Ave	20199 2273373	57611 4589481	109040	371047	679889	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloromethane	FB	Ave	21606 2257432	68215 4489126	128819	360364	686620	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	+++++ 2347724	68089 4651899	135767	385588	706924	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromomethane	FB	Ave	11225 1278886	33249 2692576	67805	192089	389038	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroethane	FB	Ave	13076 1457613	40254 3124745	79788	225846	442041	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	33651 3273023	96743 6678703	186961	532436	983144	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Acrolein	FB	Ave	+++++ 671724	13392 1467297	30038	94255	197255	+++++ 300	10.0 600	20.0	50.0	100
Acetone	FB	Lin2	+++++ 627787	26251 1343036	45795	108698	204602	+++++ 120	4.00 240	8.00	20.0	40.0
1,1-Dichloroethene	FB	Ave	11665 1417488	38249 2909237	71410	210671	412784	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dioxane	FB	Ave	+++++ 169104	+++++ 336063	7475	25353	53587	+++++ 1500	+++++ 3000	100	250	500
Acetonitrile	FB	Ave	+++++ 436555	13767 899239	28934	71883	143240	+++++ 300	10.0 600	20.0	50.0	100
Iodomethane	FB	Ave	13794 1750486	42738 3783300	87023	253551	519509	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40764

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/12/2010 19:43 Calibration End Date: 11/12/2010 21:46 Calibration ID: 3618

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Butanone (MEK)	FB	Ave	+++++ 802444	21477 1810791	43393	116114	245226	+++++ 120	4.00 240	8.00	20.0	40.0
Propionitrile	FB	Ave	+++++ 537425	12807 1183845	28701	82849	169072	+++++ 300	10.0 600	20.0	50.0	100
Tert-butyl alcohol (2-methyl-2-propanol)	FB	Ave	+++++ 597932	13813 1353945	26847	79817	172872	+++++ 600	20.0 1200	40.0	100	200
Methylene Chloride	FB	Lin2	+++++ 1251730	61701 2625444	97174	216320	410412	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acrylonitrile	FB	Ave	9721 1432943	36402 3085877	72787	210415	441028	3.00 300	10.0 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	13996 1651270	44878 3459443	87565	249503	497542	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 281935	7642 594991	13554	46140	92582	+++++ 600	20.0 1200	40.0	100	200
Isopropyl ether	FB	Ave	33281 4915580	121317 10134315	257229	748783	1520554	1.50 150	5.00 300	10.0	25.0	50.0
1,1-Dichloroethane	FB	Ave	27555 3003929	85629 6262043	170869	471550	939725	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroprene	FB	Ave	23278 3450615	77334 7119585	158089	500678	989697	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	12780 1575680	41238 3375268	83582	232822	482380	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2,2-Dichloropropane	FB	Ave	18210 2461625	55387 5101788	116988	331391	691066	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Methacrylonitrile	FB	Ave	+++++ 3098572	68501 6587777	161934	461482	968326	+++++ 300	10.0 600	20.0	50.0	100
Bromochloromethane	FB	Ave	3917 485911	12055 1055883	26729	71283	148573	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	23864 2646034	74874 5616429	154099	423884	830514	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	24596 2864453	76264 5859148	148128	429590	845560	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	20273 2676562	69383 5476621	135050	403668	791696	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	20507 2516024	66717 5296386	129730	389280	735091	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Ave	12399 1425079	41874 2979149	84772	226985	450305	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Benzene	FB	Ave	57164 6329740	180212 12848363	370607	1021676	1998185	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butanol	FB	Lin2	+++++ 333632	+++++ 696716	28591	55814	105076	+++++ 900	+++++ 1800	60.0	150	300

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40764

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/12/2010 19:43 Calibration End Date: 11/12/2010 21:46 Calibration ID: 3618

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Trichloroethene	FB	Ave	15324 1812552	46904 3920164	94544	268938	524800	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	10987 1370405	35276 2976273	74098	203358	418463	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	3392 453492	11843 998546	25335	69243	136149	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	12148 1594150	38495 3451848	79389	230495	470950	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBZ	Ave	11083 1855038	36823 4093710	79123	247139	522757	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Methyl-2-pentanone	CBZ	Ave	+++++ 1992570	39174 4431719	85515	268267	585198	+++++ 120	4.00 240	8.00	20.0	40.0
Toluene	FB	Ave	66772 6943185	200453 13589722	396247	1103560	2150577	0.300 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	7505 1305257	27939 2897500	59005	171046	374838	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromoform	CBZ	Lin1	+++++ 347018	7527 818744	13604	43128	93617	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloroethane	FB	Ave	+++++ 609940	15839 1347747	33757	90516	187706	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Hexanone	FB	Lin2	+++++ 1373134	24441 3080483	55430	169648	378950	+++++ 120	4.00 240	8.00	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	9616 1257241	31160 2721061	68310	190594	383634	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 183984	3601 394183	9304	25821	54790	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	12554 1521974	41542 3170177	80367	227010	444746	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Dibromochloromethane	CBZ	Ave	4740 754148	16227 1722789	33646	100985	212438	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromoethane (EDB)	CBZ	Ave	3246 554629	12693 1245389	26228	78226	162093	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	16368 2595046	53173 5264431	116968	369211	737324	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	33694 3983407	111848 8259056	227193	608792	1211859	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	9386 1302517	30094 2808108	64039	181853	380139	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	19783 2489834	63623 5099708	130073	365324	731017	0.300 30.0	1.00 60.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	47417 6042582	158813 11839576	329074	923507	1836248	0.600 60.0	2.00 120	4.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40764

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/12/2010 19:43 Calibration End Date: 11/12/2010 21:46 Calibration ID: 3618

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
o-Xylene	CBZ	Ave	19315 2806694	67090 5720416	139452	419928	834913	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Styrene	CBZ	Lin2	+++++ 3916433	66081 8328138	156898	496981	1084493	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	55732 7941450	191415 14694814	409022	1201273	2385176	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexanone	CBZ	Ave	6430 943046	18892 1837806	38527	118344	264626	12.0 1200	40.0 2400	80.0	200	400
1,1,2,2-Tetrachloroethane	DCB	Ave	4545 635580	17043 1327374	34862	96216	191653	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	10540 1428053	35706 3058411	75478	210722	427053	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Propylbenzene	DCB	Ave	15779 2322038	56049 4625741	117235	343299	677135	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	44335 6905682	158476 12912940	341742	1027638	2055010	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Lin2	+++++ 80349	+++++ 186750	2958	9777	20670	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	13589 1831710	45938 3706567	97780	274753	537866	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	11954 1783203	43213 3655039	89837	259616	522389	0.300 30.0	1.00 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	44700 7176766	158812 13261377	350221	1046629	2094218	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	40902 6840164	159571 12639181	345928	1024633	2024411	0.300 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	10702 1956405	45952 3761299	96375	286108	570832	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	47420 7835320	176567 14006592	390131	1159380	2305488	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	22582 3101999	78080 6250968	158019	450472	917170	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	23554 2992711	76165 5973952	159581	436171	876610	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	43841 7468446	164625 13211147	368723	1097433	2202357	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	17541 2446335	59235 4916652	124162	350816	718497	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Naphthalene	DCB	Lin1	+++++ 1799144	29409 3774233	60848	181812	436852	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 1686926	33628 3255980	73155	208566	458929	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-10064-1 Analy Batch No.: 40764

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/12/2010 19:43 Calibration End Date: 11/12/2010 21:46 Calibration ID: 3618

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Hexachlorobutadiene	DCB	Ave	11236 1547730	40192 2780938	78448	221878	445614	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	7055 1292830	27251 2513462	56948	164595	361752	0.300 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6434.D
Lab Smp Id: IC
Inj Date : 12-NOV-2010 19:43
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M 0.3
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\8260B-H2OAFC.m
Meth Date : 12-Nov-2010 22:16 ryersonj Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	8.367	8.353	(1.000)	1940035	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.602	(1.000)	374341	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	462516	12.5000	(Q)
M 1 1,2-Dichloroethene (total)	96				26776	0.60000	0.583003(a)
M 2 Xylene (total)	106				66732	0.90000	0.852126(a)
M 3 Trihalomethane (total)	100				40752	1.20000	0.836891
M 4 1,3-Dichloropropene (total)	100				18588	0.60000	0.477959
5 dichlorodifluoromethane	85	4.569	4.568	(0.546)	20199	0.30000	0.314125(a)
7 Chloromethane	50	4.806	4.806	(0.574)	21606	0.30000	0.319630(a)
10 Bromomethane	94	5.351	5.365	(0.639)	11225	0.30000	0.307124(a)
11 Chloroethane	64	5.435	5.434	(0.650)	13076	0.30000	0.306842(a)
14 Trichlorofluoromethane	101	5.686	5.686	(0.680)	33651	0.30000	0.339126(a)
13 Ethanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	6.147	6.147	(0.735)	11665	0.30000	0.294460(a)
24 Iodomethane	142	6.328	6.328	(0.756)	13794	0.30000	0.286379(a)
25 Acetonitrile	41	6.328	6.314	(0.756)	4692	3.00000	3.42736(a)
29 tert-Butyl alcohol	59	6.440	6.440	(0.770)	3465	6.00000	4.32436(aQ)
31 Acrylonitrile	53	6.636	6.635	(0.793)	9721	3.00000	2.47432(a)
33 trans-1,2-Dichloroethene	96	6.733	6.733	(0.805)	13996	0.30000	0.296565(a)
36 Isopropyl ether	87	6.999	6.999	(0.836)	33281	1.50000	1.23456(aQ)
37 1,1-Dichloroethane	63	7.041	7.040	(0.841)	27555	0.30000	0.308797(a)
38 Chloroprene	53	7.124	7.124	(0.851)	23278	0.30000	0.258779(a)
41 2-Butanone	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
43	cis-1,2-Dichloroethene	96	7.488	7.487	(0.895)	12780	0.30000	0.286439(a)
42	Propionitrile	54	Compound Not Detected.					
44	2,2-Dichloropropane	77	7.516	7.515	(0.898)	18210	0.30000	0.282779(a)
45	Methacrylonitrile	41	7.599	7.599	(0.908)	20681	3.00000	2.39660(a)
46	Bromochloromethane	128	7.683	7.683	(0.918)	3917	0.30000	0.285289(a)
47	Chloroform	83	7.683	7.683	(0.918)	23864	0.30000	0.301858(a)
51	1,1,1-Trichloroethane	97	7.921	7.920	(0.947)	24596	0.30000	0.304030(a)
50	Isobutanol	41	Compound Not Detected.					
53	1,1-Dichloropropene	75	8.018	8.018	(0.958)	20273	0.30000	0.274495(a)
54	Carbon Tetrachloride	117	8.060	8.060	(0.963)	20507	0.30000	0.288921(a)
57	1,2-Dichloroethane	62	8.172	8.158	(0.977)	12399	0.30000	0.290722(a)
58	Benzene	78	8.200	8.200	(0.980)	57164	0.30000	0.302860(a)
59	n-Butanol	56	8.354	8.353	(0.998)	17431	15.0000	19.0581(aQ)
61	Trichloroethene	130	8.633	8.633	(1.032)	15324	0.30000	0.299836(a)
64	1,2-Dichloropropane	63	8.800	8.800	(1.052)	10987	0.30000	0.282842(a)
66	1,4-Dioxane	88	Compound Not Detected.					
67	Dibromomethane	93	8.898	8.898	(1.063)	3392	0.30000	0.263492(a)
68	Bromodichloromethane	83	8.954	8.954	(1.070)	12148	0.30000	0.278722(a)
71	cis-1,3-Dichloropropene	75	9.261	9.261	(0.872)	11083	0.30000	0.250684(a)
72	4-Methyl-2-pentanone	43	9.317	9.303	(0.878)	10800	1.20000	0.876746(a)
74	Toluene	91	9.555	9.554	(1.142)	66772	0.30000	0.323134(a)
76	trans-1,3-Dichloropropene	75	9.638	9.638	(1.152)	7505	0.30000	0.227275(a)
78	2-Hexanone	43	9.918	9.904	(1.185)	6953	1.20000	2.22409(a)
79	1,3-Dichloropropane	76	9.946	9.945	(0.937)	9616	0.30000	0.284415(a)
80	Tetrachloroethene	164	9.988	9.987	(0.941)	12554	0.30000	0.304794(a)
81	Dibromochloromethane	129	10.155	10.155	(0.957)	4740	0.30000	0.256311(aQ)
83	1,2-Dibromoethane	107	10.281	10.281	(0.968)	3246	0.30000	0.234491(a)
84	1-Chlorohexane	91	10.504	10.504	(0.989)	16368	0.30000	0.260564(a)
86	Chlorobenzene	112	10.630	10.630	(1.001)	33694	0.30000	0.304141(a)
88	1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	9386	0.30000	0.281856(a)
87	Ethylbenzene	106	10.672	10.672	(1.005)	19783	0.30000	0.299675(a)
89	m and p-Xylene	106	10.742	10.742	(1.012)	47417	0.60000	0.584235
90	o-Xylene	106	11.077	11.077	(1.043)	19315	0.30000	0.267891(a)
91	Styrene	104	11.077	11.077	(1.043)	18653	0.30000	0.561966(a)
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	11.356	11.342	(0.905)	55732	0.30000	0.292605(a)
95	Cyclohexanone	55	11.482	11.482	(1.082)	6430	12.0000	11.6311(a)
97	1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	4545	0.30000	0.285329(a)
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	11.691	11.691	(0.932)	10540	0.30000	0.298258(a)
100	n-Propylbenzene	120	11.691	11.691	(0.932)	15779	0.30000	0.284819(aQ)
103	2-Chlorotoluene	126	11.817	11.817	(0.942)	13589	0.30000	0.301405(a)
102	1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	44335	0.30000	0.275078(a)
104	4-Chlorotoluene	126	11.901	11.901	(0.949)	11954	0.30000	0.280784(a)
105	tert-Butylbenzene	119	12.124	12.124	(0.967)	44700	0.30000	0.271885(a)
106	1,2,4-Trimethylbenzene	105	12.152	12.152	(0.969)	40902	0.30000	0.257459(a)
107	sec-Butylbenzene	134	12.320	12.320	(0.982)	10702	0.30000	0.238870(aQ)
108	4-Isopropyltoluene	119	12.418	12.404	(0.990)	47420	0.30000	0.263919(a)
109	1,3-Dichlorobenzene	146	12.501	12.501	(0.997)	22582	0.30000	0.299784
111	1,4-dichlorobenzene	146	12.571	12.571	(1.002)	23554	0.30000	0.318429
113	n-Butylbenzene	91	12.809	12.809	(1.021)	43841	0.30000	0.258609(a)
114	1,2-Dichlorobenzene	146	12.962	12.962	(1.033)	17541	0.30000	0.298657
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	Hexachlorobutadiene	225	15.029	15.029	(1.198)	11236	0.30000	0.304134(a)
119	Naphthalene	128	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
120 1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	7055	0.30000	0.252355(a)

QC Flag Legend

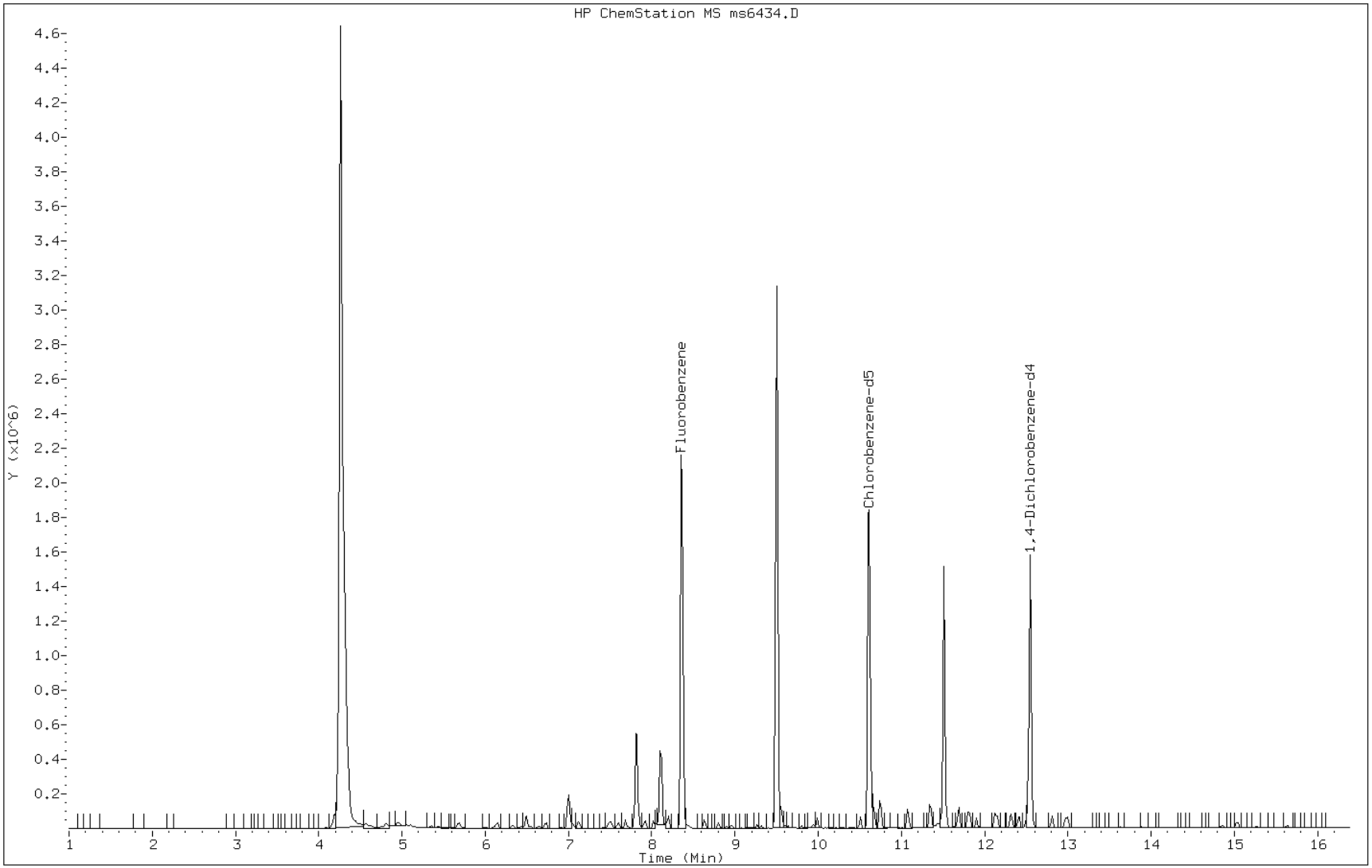
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms6434.D

Date: 12-NOV-2010 19:43

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 0.3 Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6435.D
Lab Smp Id: IC
Inj Date : 12-NOV-2010 20:04
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M 1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\8260B-H2OAFC.m
Meth Date : 12-Nov-2010 22:16 ryersonj Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	8.354	8.353	(1.000)	1833077	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.602	(1.000)	365864	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	476232	12.5000	(Q)
M 1 1,2-Dichloroethene (total)	96				86116	2.00000	1.98462
M 2 Xylene (total)	106				225903	3.00000	2.95418
M 3 Trihalomethane (total)	100				137123	4.00000	4.12189
M 4 1,3-Dichloropropene (total)	100				64762	2.00000	1.74764
5 dichlorodifluoromethane	85	4.569	4.568	(0.547)	57611	1.00000	0.948217(a)
7 Chloromethane	50	4.806	4.806	(0.575)	68215	1.00000	1.06803(a)
8 Vinyl Chloride	62	4.946	4.960	(0.592)	68089	1.00000	1.03850
10 Bromomethane	94	5.351	5.365	(0.641)	33249	1.00000	0.962798(a)
11 Chloroethane	64	5.435	5.434	(0.651)	40254	1.00000	0.999717(a)
14 Trichlorofluoromethane	101	5.686	5.686	(0.681)	96743	1.00000	1.03184(a)
13 Ethanol	45	Compound Not Detected.					
18 Acrolein	56	6.007	5.993	(0.719)	13392	10.0000	8.00768(a)
22 Acetone	43	6.105	6.091	(0.731)	26251	4.00000	3.88963(a)
23 1,1-Dichloroethene	96	6.147	6.147	(0.736)	38249	1.00000	1.02186
24 Iodomethane	142	6.328	6.328	(0.758)	42738	1.00000	0.939062(a)
25 Acetonitrile	41	6.314	6.314	(0.756)	13767	10.0000	10.6431(a)
29 tert-Butyl alcohol	59	6.440	6.440	(0.771)	13813	20.0000	18.2446(aQ)
30 Methylene Chloride	84	6.496	6.496	(0.778)	61701	1.00000	0.988812(a)
31 Acrylonitrile	53	6.636	6.635	(0.794)	36402	10.0000	9.80615(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.733	6.733	(0.806)	44878	1.00000	1.00642
36 Isopropyl ether	87	6.999	6.999	(0.838)	121317	5.00000	4.76286(aQ)
37 1,1-Dichloroethane	63	7.055	7.040	(0.845)	85629	1.00000	1.01560
38 Chloroprene	53	7.125	7.124	(0.853)	77334	1.00000	0.909877(a)
41 2-Butanone	43	7.418	7.418	(0.888)	21477	4.00000	3.92544(a)
43 cis-1,2-Dichloroethene	96	7.488	7.487	(0.896)	41238	1.00000	0.978200(a)
42 Propionitrile	54	7.474	7.459	(0.895)	12807	10.0000	8.81079(a)
44 2,2-Dichloropropane	77	7.516	7.515	(0.900)	55387	1.00000	0.910278(a)
45 Methacrylonitrile	41	7.599	7.599	(0.910)	68501	10.0000	8.40135(a)
46 Bromochloromethane	128	7.683	7.683	(0.920)	12055	1.00000	0.929240(a)
47 Chloroform	83	7.683	7.683	(0.920)	74874	1.00000	1.00235
51 1,1,1-Trichloroethane	97	7.921	7.920	(0.948)	76264	1.00000	0.997702(a)
50 Isobutanol	41	7.865	7.865	(0.941)	7642	20.0000	19.7384(aQ)
53 1,1-Dichloropropene	75	8.018	8.018	(0.960)	69383	1.00000	0.994255(a)
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	66717	1.00000	0.994815(a)
57 1,2-Dichloroethane	62	8.158	8.158	(0.977)	41874	1.00000	1.03912
58 Benzene	78	8.200	8.200	(0.982)	180212	1.00000	1.01049
59 n-Butanol	56	8.354	8.353	(1.000)	21210	30.0000	35.7849(a)
61 Trichloroethene	130	8.633	8.633	(1.033)	46904	1.00000	0.971293(a)
64 1,2-Dichloropropane	63	8.800	8.800	(1.053)	35276	1.00000	0.961110(a)
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	8.898	8.898	(1.065)	11843	1.00000	0.973648(a)
68 Bromodichloromethane	83	8.954	8.954	(1.072)	38495	1.00000	0.934759(a)
71 cis-1,3-Dichloropropene	75	9.261	9.261	(0.872)	36823	1.00000	0.852189(a)
72 4-Methyl-2-pentanone	43	9.317	9.303	(0.878)	39174	4.00000	3.25384(a)
74 Toluene	91	9.555	9.554	(1.144)	200453	1.00000	1.02667
76 trans-1,3-Dichloropropene	75	9.638	9.638	(1.154)	27939	1.00000	0.895450(a)
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	15839	1.00000	0.951372(a)
78 2-Hexanone	43	9.918	9.904	(1.187)	24441	4.00000	4.17536(a)
79 1,3-Dichloropropane	76	9.946	9.945	(0.937)	31160	1.00000	0.942982(a)
80 Tetrachloroethene	164	9.988	9.987	(0.941)	41542	1.00000	1.03195
81 Dibromochloromethane	129	10.155	10.155	(0.957)	16227	1.00000	0.897791(a)
83 1,2-Dibromoethane	107	10.281	10.281	(0.968)	12693	1.00000	0.938186(a)
84 1-Chlorohexane	91	10.504	10.504	(0.989)	53173	1.00000	0.866078(a)
86 Chlorobenzene	112	10.630	10.630	(1.001)	111848	1.00000	1.03300
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	30094	1.00000	0.924643(a)
87 Ethylbenzene	106	10.672	10.672	(1.005)	63623	1.00000	0.986097(a)
89 m and p-Xylene	106	10.742	10.742	(1.012)	158813	2.00000	2.00211(Q)
90 o-Xylene	106	11.077	11.077	(1.043)	67090	1.00000	0.952071
91 Styrene	104	11.077	11.077	(1.043)	66081	1.00000	1.03359
92 Bromoform	173	11.286	11.287	(1.063)	7527	1.00000	1.28699
93 isopropyl benzene	105	11.342	11.342	(0.904)	191415	1.00000	0.976026(a)
95 Cyclohexanone	55	11.482	11.482	(1.082)	18892	40.0000	34.9651
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	17043	1.00000	1.03912
99 1,2,3-Trichloropropane	110	11.622	11.621	(0.927)	3601	1.00000	0.809495(aQ)
101 Bromobenzene	156	11.691	11.691	(0.932)	35706	1.00000	0.981298(a)
100 n-Propylbenzene	120	11.691	11.691	(0.932)	56049	1.00000	0.982575(aQ)
103 2-Chlorotoluene	126	11.817	11.817	(0.942)	45938	1.00000	0.989563(a)
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	158476	1.00000	0.954952(a)
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	43213	1.00000	0.985786(a)
105 tert-Butylbenzene	119	12.124	12.124	(0.967)	158812	1.00000	0.938143(a)
106 1,2,4-Trimethylbenzene	105	12.152	12.152	(0.969)	159571	1.00000	0.975496(a)
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	45952	1.00000	0.996116(aQ)
108 4-Isopropyltoluene	119	12.418	12.404	(0.990)	176567	1.00000	0.954393(a)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	12.502	12.501	(0.997)	78080	1.00000	1.00669
111 1,4-dichlorobenzene	146	12.571	12.571	(1.002)	76165	1.00000	1.00003
113 n-Butylbenzene	91	12.809	12.809	(1.021)	164625	1.00000	0.943120(a)
114 1,2-Dichlorobenzene	146	12.962	12.962	(1.033)	59235	1.00000	0.979501
115 1,2-Dibromo-3-chloropropane	157	13.772	13.773	(1.098)	1139	1.00000	1.17985(aQ)
117 1,2,4-Trichlorobenzene	180	14.862	14.848	(1.185)	33628	1.00000	0.891509(a)
118 Hexachlorobutadiene	225	15.029	15.029	(1.198)	40192	1.00000	1.05658
119 Naphthalene	128	15.267	15.267	(1.217)	29409	1.00000	1.25493
120 1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	27251	1.00000	0.946685(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms6435.D

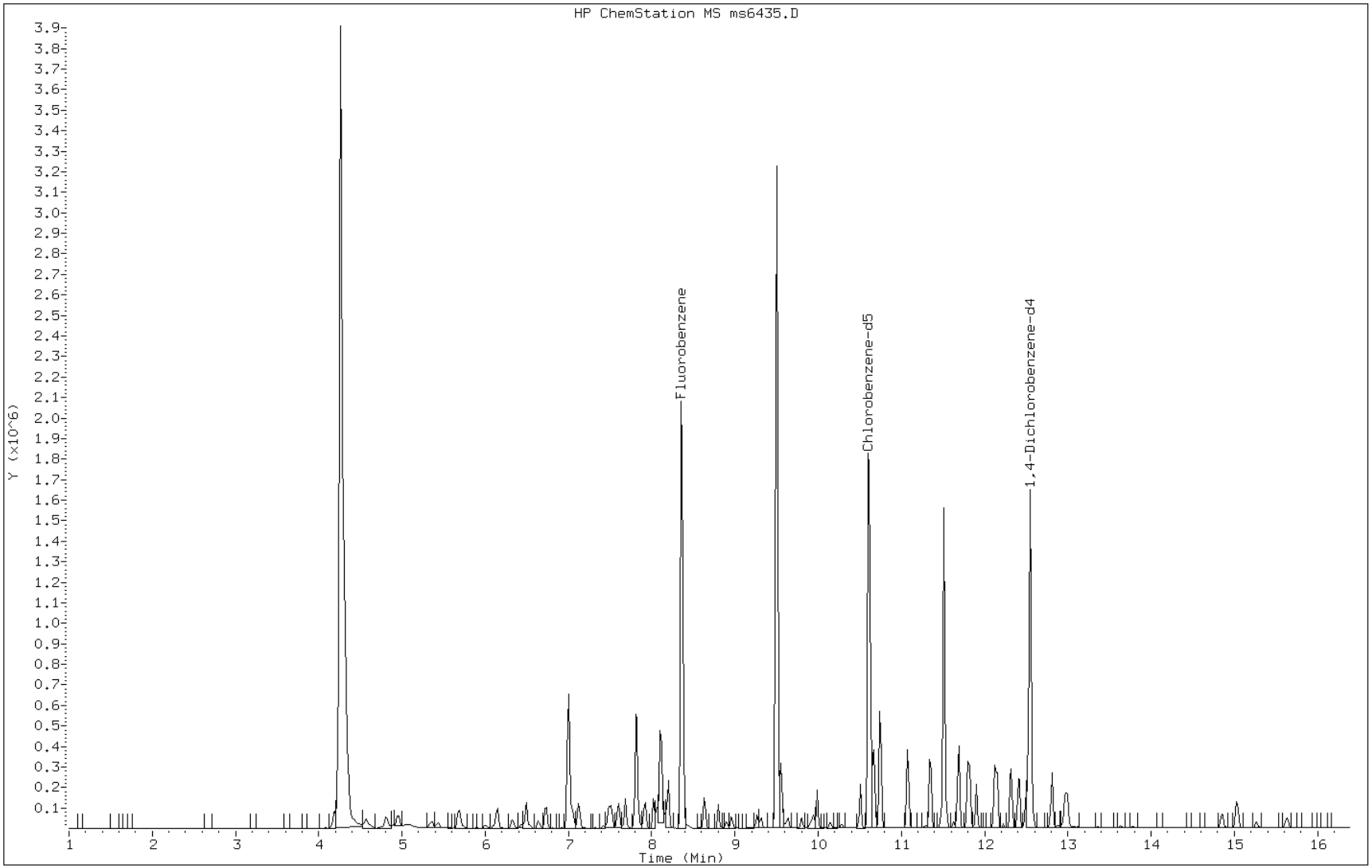
Date: 12-NOV-2010 20:04

Client ID:

Instrument: GCMS1.i

Sample Info: IC,,M 1.0

Operator: RYERSONJ



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VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6436.D
Lab Smp Id: IC
Inj Date : 12-NOV-2010 20:24
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M 2.0
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Meth Date : 12-Nov-2010 22:16 ryersonj Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 60	Fluorobenzene	96	8.353	8.353	(1.000)	1849315	12.5000	
* 85	Chlorobenzene-d5	119	10.602	10.602	(1.000)	371460	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	481473	12.5000	(Q)
M 1	1,2-Dichloroethene (total)	96				171147	4.00000	3.91168
M 2	Xylene (total)	106				468526	6.00000	6.03518
M 3	Trihalomethane (total)	100				280738	8.00000	7.67166
M 4	1,3-Dichloropropene (total)	100				138128	4.00000	3.67806
5	dichlorodifluoromethane	85	4.569	4.568	(0.547)	109040	2.00000	1.77892(a)
7	Chloromethane	50	4.806	4.806	(0.575)	128819	2.00000	1.99918(a)
8	Vinyl Chloride	62	4.946	4.960	(0.592)	135767	2.00000	2.05255
10	Bromomethane	94	5.351	5.365	(0.641)	67805	2.00000	1.94620(a)
11	Chloroethane	64	5.435	5.434	(0.651)	79788	2.00000	1.96415(a)
14	Trichlorofluoromethane	101	5.686	5.686	(0.681)	186961	2.00000	1.97657(a)
13	Ethanol	45	5.686	5.686	(0.681)	11232	100.000	98.4393(a)
18	Acrolein	56	5.993	5.993	(0.717)	30038	20.0000	17.8034(a)
22	Acetone	43	6.105	6.091	(0.731)	45795	8.00000	8.28378(a)
23	1,1-Dichloroethene	96	6.147	6.147	(0.736)	71410	2.00000	1.89104
24	Iodomethane	142	6.328	6.328	(0.758)	87023	2.00000	1.89532
25	Acetonitrile	41	6.314	6.314	(0.756)	28934	20.0000	22.1722
29	tert-Butyl alcohol	59	6.440	6.440	(0.771)	26847	40.0000	35.1490(a)
30	Methylene Chloride	84	6.496	6.496	(0.778)	97174	2.00000	2.01839
31	Acrylonitrile	53	6.636	6.635	(0.794)	72787	20.0000	19.4356(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.733	6.733	(0.806)	87565	2.00000	1.94646
36 Isopropyl ether	87	6.999	6.999	(0.838)	257229	10.0000	10.0100(Q)
37 1,1-Dichloroethane	63	7.041	7.040	(0.843)	170869	2.00000	2.00879
38 Chloroprene	53	7.124	7.124	(0.853)	158089	2.00000	1.84367
41 2-Butanone	43	7.418	7.418	(0.888)	43393	8.00000	7.86147
43 cis-1,2-Dichloroethene	96	7.488	7.487	(0.896)	83582	2.00000	1.96523
42 Propionitrile	54	7.474	7.459	(0.895)	28701	20.0000	19.5720
44 2,2-Dichloropropane	77	7.515	7.515	(0.900)	116988	2.00000	1.90580(a)
45 Methacrylonitrile	41	7.599	7.599	(0.910)	161934	20.0000	19.6861
46 Bromochloromethane	128	7.683	7.683	(0.920)	26729	2.00000	2.04227
47 Chloroform	83	7.683	7.683	(0.920)	154099	2.00000	2.04483
51 1,1,1-Trichloroethane	97	7.921	7.920	(0.948)	148128	2.00000	1.92083
50 Isobutanol	41	7.865	7.865	(0.941)	13554	40.0000	34.7010(aQ)
53 1,1-Dichloropropene	75	8.018	8.018	(0.960)	135050	2.00000	1.91827
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	129730	2.00000	1.91742
57 1,2-Dichloroethane	62	8.158	8.158	(0.977)	84772	2.00000	2.08518
58 Benzene	78	8.200	8.200	(0.982)	370607	2.00000	2.05983
59 n-Butanol	56	8.353	8.353	(1.000)	28591	60.0000	60.9455
61 Trichloroethene	130	8.633	8.633	(1.033)	94544	2.00000	1.94064
64 1,2-Dichloropropane	63	8.800	8.800	(1.053)	74098	2.00000	2.00111
66 1,4-Dioxane	88	8.842	8.842	(1.059)	7475	100.000	83.8389(a)
67 Dibromomethane	93	8.898	8.898	(1.065)	25335	2.00000	2.06458
68 Bromodichloromethane	83	8.954	8.954	(1.072)	79389	2.00000	1.91084
71 cis-1,3-Dichloropropene	75	9.261	9.261	(0.874)	79123	2.00000	1.80355
72 4-Methyl-2-pentanone	43	9.317	9.303	(0.879)	85515	8.00000	6.99597
74 Toluene	91	9.555	9.554	(1.144)	396247	2.00000	2.01165
76 trans-1,3-Dichloropropene	75	9.638	9.638	(1.154)	59005	2.00000	1.87452
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	33757	2.00000	2.00982
78 2-Hexanone	43	9.904	9.904	(1.186)	55430	8.00000	7.50572
79 1,3-Dichloropropane	76	9.946	9.945	(0.938)	68310	2.00000	2.03609
80 Tetrachloroethene	164	9.988	9.987	(0.942)	80367	2.00000	1.96634
81 Dibromochloromethane	129	10.155	10.155	(0.958)	33646	2.00000	1.83349
83 1,2-Dibromoethane	107	10.281	10.281	(0.970)	26228	2.00000	1.90940
84 1-Chlorohexane	91	10.504	10.504	(0.991)	116968	2.00000	1.87646
86 Chlorobenzene	112	10.630	10.630	(1.003)	227193	2.00000	2.06668
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.007)	64039	2.00000	1.93797
87 Ethylbenzene	106	10.672	10.672	(1.007)	130073	2.00000	1.98564
89 m and p-Xylene	106	10.742	10.742	(1.013)	329074	4.00000	4.08604
90 o-Xylene	106	11.077	11.077	(1.045)	139452	2.00000	1.94914
91 Styrene	104	11.077	11.077	(1.045)	156898	2.00000	1.90540
92 Bromoform	173	11.286	11.287	(1.065)	13604	2.00000	1.88250
93 isopropyl benzene	105	11.342	11.342	(0.904)	409022	2.00000	2.06290
95 Cyclohexanone	55	11.482	11.482	(1.083)	38527	80.0000	70.2311
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	34862	2.00000	2.10242
99 1,2,3-Trichloropropane	110	11.622	11.621	(0.926)	9304	2.00000	2.06875
101 Bromobenzene	156	11.691	11.691	(0.932)	75478	2.00000	2.05176
100 n-Propylbenzene	120	11.691	11.691	(0.932)	117235	2.00000	2.03283(Q)
103 2-Chlorotoluene	126	11.817	11.817	(0.942)	97780	2.00000	2.08338
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	341742	2.00000	2.03687
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	89837	2.00000	2.02708
105 tert-Butylbenzene	119	12.124	12.124	(0.967)	350221	2.00000	2.04632
106 1,2,4-Trimethylbenzene	105	12.152	12.152	(0.969)	345928	2.00000	2.09172
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	96375	2.00000	2.06641(Q)
108 4-Isopropyltoluene	119	12.404	12.404	(0.989)	390131	2.00000	2.08581

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	12.501	12.501	(0.997)	158019	2.00000	2.01516
111 1,4-dichlorobenzene	146	12.571	12.571	(1.002)	159581	2.00000	2.07245
113 n-Butylbenzene	91	12.809	12.809	(1.021)	368723	2.00000	2.08938
114 1,2-Dichlorobenzene	146	12.962	12.962	(1.033)	124162	2.00000	2.03077
115 1,2-Dibromo-3-chloropropane	157	13.772	13.773	(1.098)	2958	2.00000	2.04760
117 1,2,4-Trichlorobenzene	180	14.862	14.848	(1.185)	73155	2.00000	1.91829
118 Hexachlorobutadiene	225	15.029	15.029	(1.198)	78448	2.00000	2.03981
119 Naphthalene	128	15.267	15.267	(1.217)	60848	2.00000	1.94593
120 1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	56948	2.00000	1.95681

QC Flag Legend

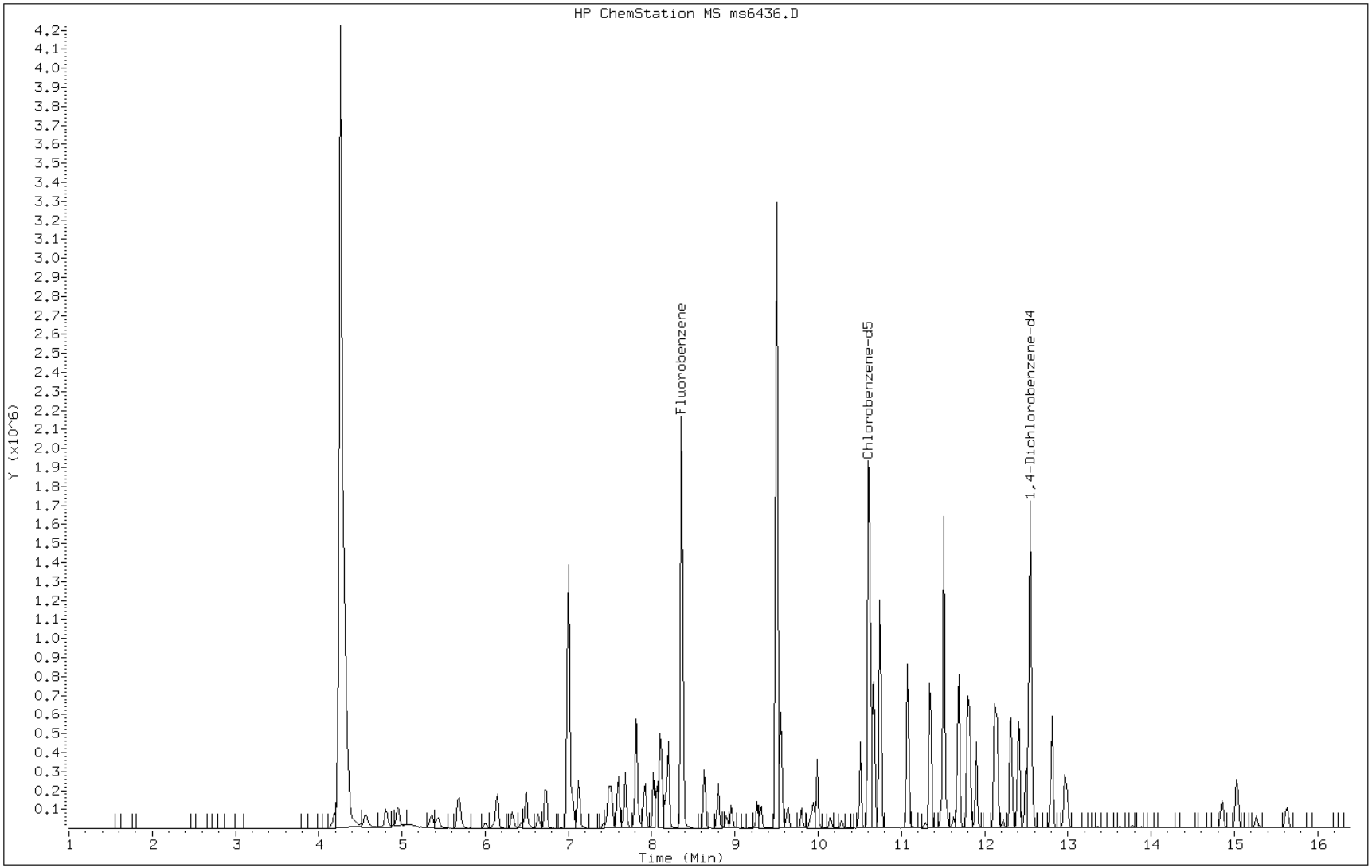
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms6436.D

Date: 12-NOV-2010 20:24

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 2.0 Operator: RYERSONJ



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VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6437.D
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Inj Date : 12-NOV-2010 20:45
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M 5.0
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Meth Date : 12-Nov-2010 22:16 ryersonj Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 60	Fluorobenzene	96	8.353	8.353	(1.000)	1974441	12.5000	
* 85	Chlorobenzene-d5	119	10.616	10.602	(1.000)	404982	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	528896	12.5000	(Q)
M 1	1,2-Dichloroethene (total)	96				482325	10.0000	10.3220
M 2	Xylene (total)	106				1343435	15.0000	15.9014
M 3	Trihalomethane (total)	100				798492	20.0000	19.9871
M 4	1,3-Dichloropropene (total)	100				418185	10.0000	10.2566
5	dichlorodifluoromethane	85	4.569	4.568	(0.547)	371047	5.00000	5.66980
7	Chloromethane	50	4.806	4.806	(0.575)	360364	5.00000	5.23818
8	Vinyl Chloride	62	4.960	4.960	(0.594)	385588	5.00000	5.45997
10	Bromomethane	94	5.365	5.365	(0.642)	192089	5.00000	5.16411
11	Chloroethane	64	5.434	5.434	(0.651)	225846	5.00000	5.20735
14	Trichlorofluoromethane	101	5.686	5.686	(0.681)	532436	5.00000	5.27225
13	Ethanol	45	5.686	5.686	(0.681)	31954	250.000	262.303
18	Acrolein	56	6.007	5.993	(0.719)	94255	50.0000	52.3242
22	Acetone	43	6.091	6.091	(0.729)	108698	20.0000	21.0294
23	1,1-Dichloroethene	96	6.147	6.147	(0.736)	210671	5.00000	5.22532
24	Iodomethane	142	6.328	6.328	(0.758)	253551	5.00000	5.17228
25	Acetonitrile	41	6.328	6.314	(0.758)	71883	50.0000	51.5932
29	tert-Butyl alcohol	59	6.440	6.440	(0.771)	79817	100.000	97.8767
30	Methylene Chloride	84	6.496	6.496	(0.778)	216320	5.00000	5.12652
31	Acrylonitrile	53	6.636	6.635	(0.794)	210415	50.0000	52.6243

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.733	6.733	(0.806)	249503	5.00000	5.19465
36 Isopropyl ether	87	6.999	6.999	(0.838)	748783	25.0000	27.2922(Q)
37 1,1-Dichloroethane	63	7.055	7.040	(0.845)	471550	5.00000	5.19236
38 Chloroprene	53	7.124	7.124	(0.853)	500678	5.00000	5.46899
41 2-Butanone	43	7.418	7.418	(0.888)	116114	20.0000	19.7031
43 cis-1,2-Dichloroethene	96	7.487	7.487	(0.896)	232822	5.00000	5.12732
42 Propionitrile	54	7.474	7.459	(0.895)	82849	50.0000	52.9165
44 2,2-Dichloropropane	77	7.515	7.515	(0.900)	331391	5.00000	5.05642
45 Methacrylonitrile	41	7.599	7.599	(0.910)	461482	50.0000	52.5464
46 Bromochloromethane	128	7.683	7.683	(0.920)	71283	5.00000	5.10133
47 Chloroform	83	7.683	7.683	(0.920)	423884	5.00000	5.26831
51 1,1,1-Trichloroethane	97	7.920	7.920	(0.948)	429590	5.00000	5.21761
50 Isobutanol	41	7.865	7.865	(0.941)	46140	100.000	110.642
53 1,1-Dichloropropene	75	8.018	8.018	(0.960)	403668	5.00000	5.37039
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	389280	5.00000	5.38896
57 1,2-Dichloroethane	62	8.158	8.158	(0.977)	226985	5.00000	5.22943
58 Benzene	78	8.200	8.200	(0.982)	1021676	5.00000	5.31861
59 n-Butanol	56	8.353	8.353	(1.000)	55814	150.000	143.796
61 Trichloroethene	130	8.633	8.633	(1.033)	268938	5.00000	5.17046
64 1,2-Dichloropropane	63	8.800	8.800	(1.054)	203358	5.00000	5.14389
66 1,4-Dioxane	88	8.856	8.842	(1.060)	25353	250.000	266.336
67 Dibromomethane	93	8.898	8.898	(1.065)	69243	5.00000	5.28509
68 Bromodichloromethane	83	8.954	8.954	(1.072)	230495	5.00000	5.19629
71 cis-1,3-Dichloropropene	75	9.261	9.261	(0.872)	247139	5.00000	5.16704
72 4-Methyl-2-pentanone	43	9.317	9.303	(0.878)	268267	20.0000	20.1302
74 Toluene	91	9.554	9.554	(1.144)	1103560	5.00000	5.24746
76 trans-1,3-Dichloropropene	75	9.638	9.638	(1.154)	171046	5.00000	5.08956
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	90516	5.00000	5.04760
78 2-Hexanone	43	9.904	9.904	(1.186)	169648	20.0000	18.7035
79 1,3-Dichloropropane	76	9.946	9.945	(0.937)	190594	5.00000	5.21074
80 Tetrachloroethene	164	9.987	9.987	(0.941)	227010	5.00000	5.09450
81 Dibromochloromethane	129	10.155	10.155	(0.957)	100985	5.00000	5.04752
83 1,2-Dibromoethane	107	10.281	10.281	(0.968)	78226	5.00000	5.22348
84 1-Chlorohexane	91	10.504	10.504	(0.989)	369211	5.00000	5.43281
86 Chlorobenzene	112	10.630	10.630	(1.001)	608792	5.00000	5.07953
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	181853	5.00000	5.04776
87 Ethylbenzene	106	10.672	10.672	(1.005)	365324	5.00000	5.11526(Q)
89 m and p-Xylene	106	10.742	10.742	(1.012)	923507	10.0000	10.5178(Q)
90 o-Xylene	106	11.077	11.077	(1.043)	419928	5.00000	5.38357
91 Styrene	104	11.077	11.077	(1.043)	496981	5.00000	4.80748
92 Bromoform	173	11.286	11.287	(1.063)	43128	5.00000	4.47495
93 isopropyl benzene	105	11.342	11.342	(0.904)	1201273	5.00000	5.51538
95 Cyclohexanone	55	11.482	11.482	(1.082)	118344	200.000	197.873
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	96216	5.00000	5.28221
99 1,2,3-Trichloropropane	110	11.622	11.621	(0.926)	25821	5.00000	5.22652
101 Bromobenzene	156	11.691	11.691	(0.932)	210722	5.00000	5.21456
100 n-Propylbenzene	120	11.691	11.691	(0.932)	343299	5.00000	5.41899(Q)
103 2-Chlorotoluene	126	11.817	11.817	(0.942)	274753	5.00000	5.32920
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	1027638	5.00000	5.57579
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	259616	5.00000	5.33271
105 tert-Butylbenzene	119	12.124	12.124	(0.967)	1046629	5.00000	5.56707
106 1,2,4-Trimethylbenzene	105	12.152	12.152	(0.969)	1024633	5.00000	5.64012
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	286108	5.00000	5.58450(Q)
108 4-Isopropyltoluene	119	12.404	12.404	(0.989)	1159380	5.00000	5.64276

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	12.501	12.501	(0.997)	450472	5.00000	5.22963
111 1,4-dichlorobenzene	146	12.571	12.571	(1.002)	436171	5.00000	5.15658
113 n-Butylbenzene	91	12.809	12.809	(1.021)	1097433	5.00000	5.66106
114 1,2-Dichlorobenzene	146	12.962	12.962	(1.033)	350816	5.00000	5.22341
115 1,2-Dibromo-3-chloropropane	157	13.772	13.773	(1.098)	9777	5.00000	4.90206
117 1,2,4-Trichlorobenzene	180	14.862	14.848	(1.185)	208566	5.00000	4.97870
118 Hexachlorobutadiene	225	15.029	15.029	(1.198)	221878	5.00000	5.25200
119 Naphthalene	128	15.267	15.267	(1.217)	181812	5.00000	4.27024
120 1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	164595	5.00000	5.14859

QC Flag Legend

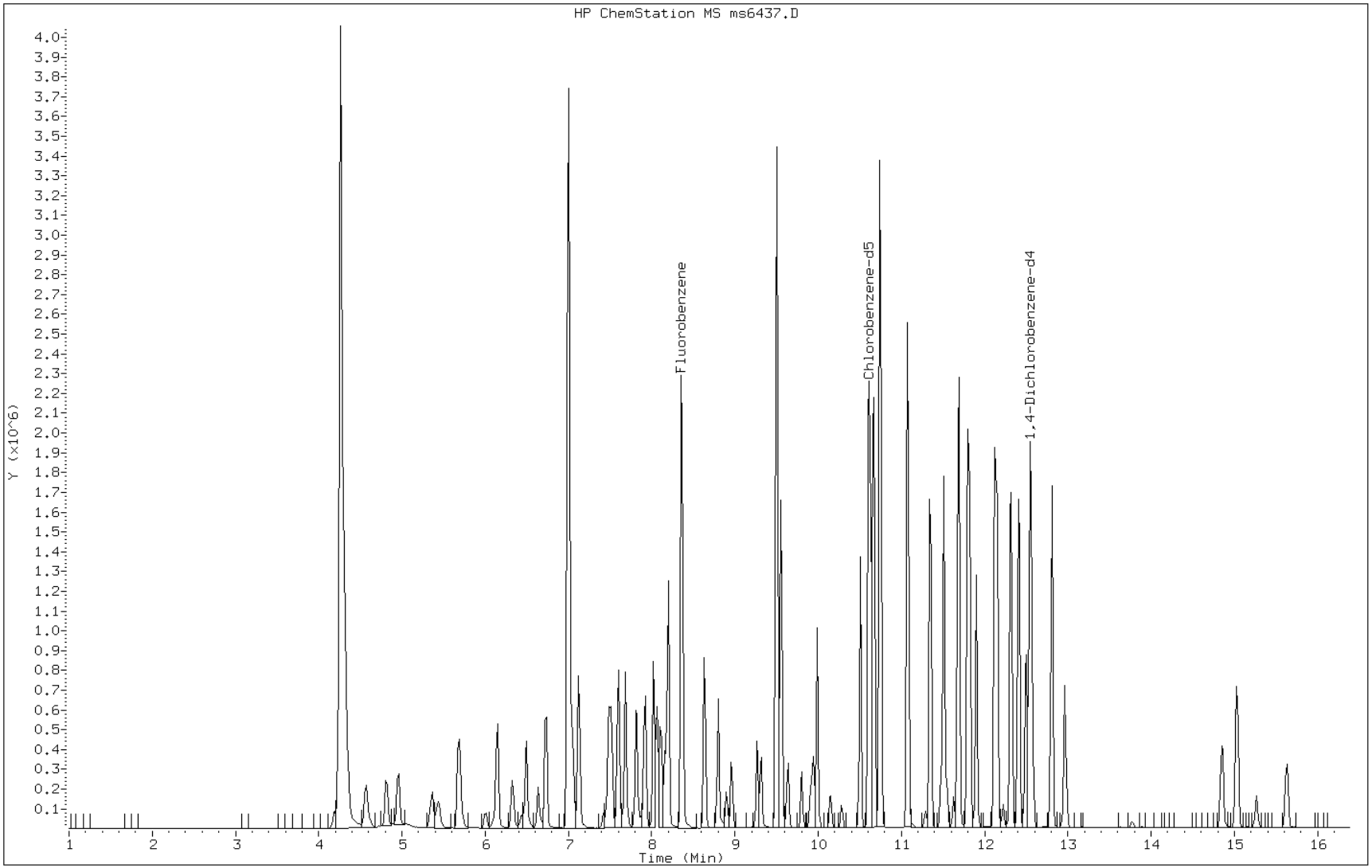
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Data File: ms6437.D

Date: 12-NOV-2010 20:45

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 5.0 Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6438.D
Lab Smp Id: IC
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Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M 10
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Meth Date : 12-Nov-2010 22:16 ryersonj Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	8.354	8.353	(1.000)	2018443	12.5000	
*	85 Chlorobenzene-d5	119	10.602	10.602	(1.000)	428530	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	562660	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				979922	20.0000	20.5246
M	2 Xylene (total)	106				2671161	30.0000	29.8794
M	3 Trihalomethane (total)	100				1607519	40.0000	39.1469
M	4 1,3-Dichloropropene (total)	100				897595	20.0000	21.2393
	5 dichlorodifluoromethane	85	4.569	4.568	(0.547)	679889	10.0000	10.1626
	7 Chloromethane	50	4.806	4.806	(0.575)	686620	10.0000	9.76299
	8 Vinyl Chloride	62	4.960	4.960	(0.594)	706924	10.0000	9.79191
	10 Bromomethane	94	5.351	5.365	(0.641)	389038	10.0000	10.2309
	11 Chloroethane	64	5.435	5.434	(0.651)	442041	10.0000	9.96999
	14 Trichlorofluoromethane	101	5.686	5.686	(0.681)	983144	10.0000	9.52299
	13 Ethanol	45	5.686	5.686	(0.681)	67977	500.000	545.843
	18 Acrolein	56	5.993	5.993	(0.717)	197255	100.000	107.116
	22 Acetone	43	6.105	6.091	(0.731)	204602	40.0000	40.5179
	23 1,1-Dichloroethene	96	6.147	6.147	(0.736)	412784	10.0000	10.0152
	24 Iodomethane	142	6.328	6.328	(0.758)	519509	10.0000	10.3666
	25 Acetonitrile	41	6.328	6.314	(0.758)	143240	100.000	100.568
	29 tert-Butyl alcohol	59	6.440	6.440	(0.771)	172872	200.000	207.365
	30 Methylene Chloride	84	6.496	6.496	(0.778)	410412	10.0000	10.2384
	31 Acrylonitrile	53	6.636	6.635	(0.794)	441028	100.000	107.896

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.733	6.733	(0.806)	497542	10.0000	10.1330
36 Isopropyl ether	87	6.999	6.999	(0.838)	1520554	50.0000	54.2140(Q)
37 1,1-Dichloroethane	63	7.041	7.040	(0.843)	939725	10.0000	10.1220
38 Chloroprene	53	7.125	7.124	(0.853)	989697	10.0000	10.5750
41 2-Butanone	43	7.418	7.418	(0.888)	245226	40.0000	40.7047
43 cis-1,2-Dichloroethene	96	7.488	7.487	(0.896)	482380	10.0000	10.3916
42 Propionitrile	54	7.460	7.459	(0.893)	169072	100.000	105.634
44 2,2-Dichloropropane	77	7.516	7.515	(0.900)	691066	10.0000	10.3145
45 Methacrylonitrile	41	7.599	7.599	(0.910)	968326	100.000	107.854
46 Bromochloromethane	128	7.683	7.683	(0.920)	148573	10.0000	10.4008
47 Chloroform	83	7.683	7.683	(0.920)	830514	10.0000	10.0972
51 1,1,1-Trichloroethane	97	7.921	7.920	(0.948)	845560	10.0000	10.0459
50 Isobutanol	41	7.865	7.865	(0.941)	92582	200.000	217.168
53 1,1-Dichloropropene	75	8.018	8.018	(0.960)	791696	10.0000	10.3031
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	735091	10.0000	9.95431
57 1,2-Dichloroethane	62	8.158	8.158	(0.977)	450305	10.0000	10.1483
58 Benzene	78	8.200	8.200	(0.982)	1998185	10.0000	10.1753
59 n-Butanol	56	8.354	8.353	(1.000)	105076	300.000	297.684
61 Trichloroethene	130	8.633	8.633	(1.033)	524800	10.0000	9.86958
64 1,2-Dichloropropane	63	8.800	8.800	(1.053)	418463	10.0000	10.3542
66 1,4-Dioxane	88	8.856	8.842	(1.060)	53587	500.000	550.666
67 Dibromomethane	93	8.898	8.898	(1.065)	136149	10.0000	10.1653
68 Bromodichloromethane	83	8.954	8.954	(1.072)	470950	10.0000	10.3857
71 cis-1,3-Dichloropropene	75	9.261	9.261	(0.874)	522757	10.0000	10.3289
72 4-Methyl-2-pentanone	43	9.303	9.303	(0.877)	585198	40.0000	41.4991
74 Toluene	91	9.555	9.554	(1.144)	2150577	10.0000	10.0031
76 trans-1,3-Dichloropropene	75	9.638	9.638	(1.154)	374838	10.0000	10.9103
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	187706	10.0000	10.2392
78 2-Hexanone	43	9.904	9.904	(1.186)	378950	40.0000	39.0824
79 1,3-Dichloropropane	76	9.946	9.945	(0.938)	383634	10.0000	9.91200
80 Tetrachloroethene	164	9.988	9.987	(0.942)	444746	10.0000	9.43242
81 Dibromochloromethane	129	10.155	10.155	(0.958)	212438	10.0000	10.0348
83 1,2-Dibromoethane	107	10.281	10.281	(0.970)	162093	10.0000	10.2289
84 1-Chlorohexane	91	10.504	10.504	(0.991)	737324	10.0000	10.2533
86 Chlorobenzene	112	10.630	10.630	(1.003)	1211859	10.0000	9.55567
88 1,1,1,2-Tetrachloroethane	131	10.658	10.672	(1.005)	380139	10.0000	9.97184
87 Ethylbenzene	106	10.672	10.672	(1.007)	731017	10.0000	9.67323
89 m and p-Xylene	106	10.742	10.742	(1.013)	1836248	20.0000	19.7638
90 o-Xylene	106	11.077	11.077	(1.045)	834913	10.0000	10.1156
91 Styrene	104	11.077	11.077	(1.045)	1084493	10.0000	9.50814
92 Bromoform	173	11.286	11.287	(1.065)	93617	10.0000	8.62933
93 isopropyl benzene	105	11.342	11.342	(0.904)	2385176	10.0000	10.2939
95 Cyclohexanone	55	11.482	11.482	(1.083)	264626	400.000	418.146
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	191653	10.0000	9.89027
99 1,2,3-Trichloropropane	110	11.622	11.621	(0.927)	54790	10.0000	10.4247
101 Bromobenzene	156	11.691	11.691	(0.932)	427053	10.0000	9.93377
100 n-Propylbenzene	120	11.691	11.691	(0.932)	677135	10.0000	10.0472(Q)
103 2-Chlorotoluene	126	11.817	11.817	(0.942)	537866	10.0000	9.80659
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	2055010	10.0000	10.4810
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	522389	10.0000	10.0864
105 tert-Butylbenzene	119	12.124	12.124	(0.967)	2094218	10.0000	10.4708
106 1,2,4-Trimethylbenzene	105	12.152	12.152	(0.969)	2024411	10.0000	10.4747
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	570832	10.0000	10.4734(Q)
108 4-Isopropyltoluene	119	12.404	12.404	(0.989)	2305488	10.0000	10.5476

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	12.502	12.501	(0.997)	917170	10.0000	10.0087
111 1,4-dichlorobenzene	146	12.571	12.571	(1.002)	876610	10.0000	9.74171
113 n-Butylbenzene	91	12.809	12.809	(1.021)	2202357	10.0000	10.6790
114 1,2-Dichlorobenzene	146	12.962	12.962	(1.033)	718497	10.0000	10.0560
115 1,2-Dibromo-3-chloropropane	157	13.772	13.773	(1.098)	20670	10.0000	9.12304
117 1,2,4-Trichlorobenzene	180	14.848	14.848	(1.184)	458929	10.0000	10.2978
118 Hexachlorobutadiene	225	15.029	15.029	(1.198)	445614	10.0000	9.91501
119 Naphthalene	128	15.267	15.267	(1.217)	436852	10.0000	8.89629
120 1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	361752	10.0000	10.6367

QC Flag Legend

Q - Qualifier signal failed the ratio test.

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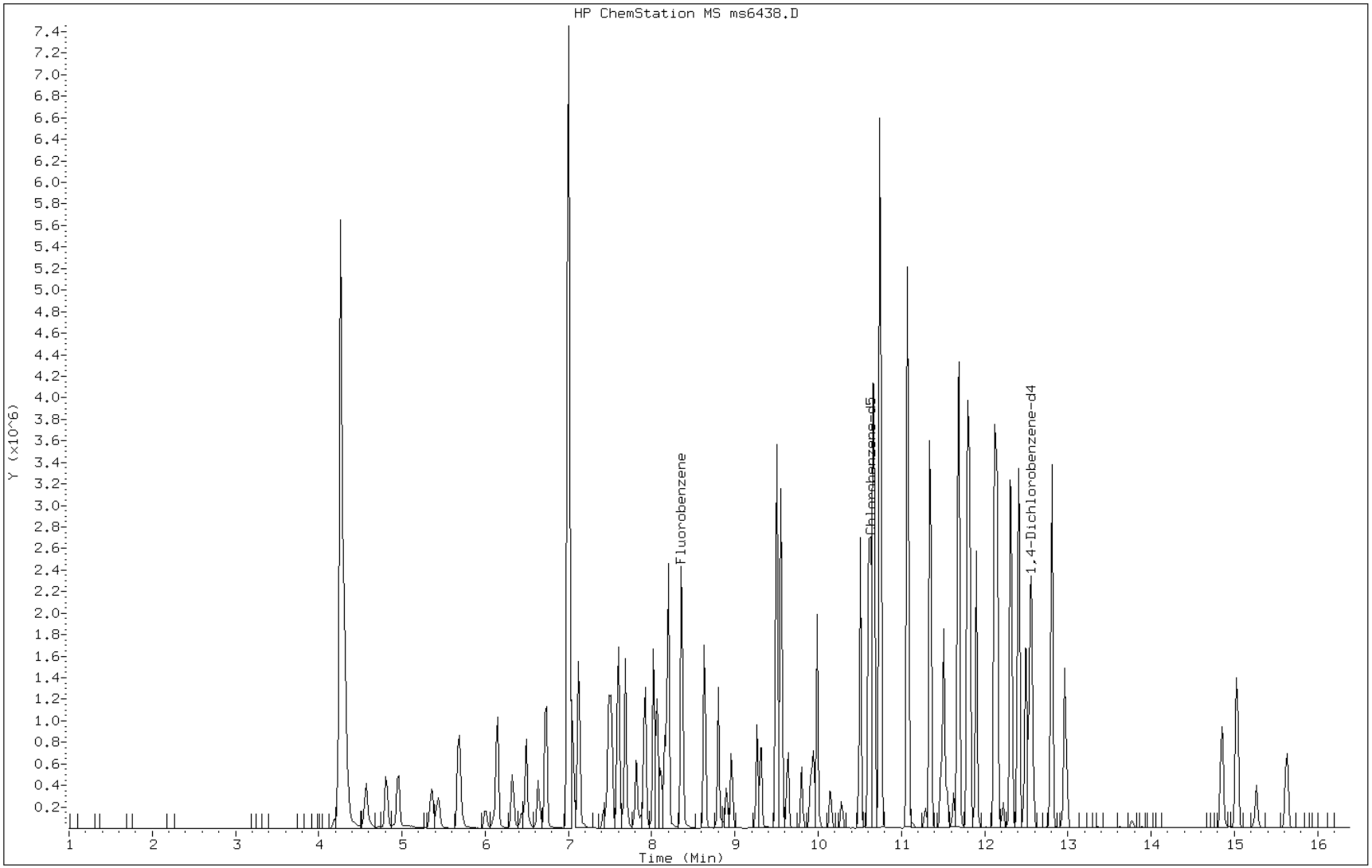
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Client ID:

Instrument: GCMS1.i

Sample Info: IC,,M 10

Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

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Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	8.354	8.353	(1.000)	2212646	12.5000	
*	85 Chlorobenzene-d5	119	10.602	10.602	(1.000)	444347	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	645698	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				3226950	60.0000	61.6430
M	2 Xylene (total)	106				8849276	90.0000	95.5169
M	3 Trihalomethane (total)	100				5341350	120.000	125.271
M	4 1,3-Dichloropropene (total)	100				3160295	60.0000	70.0056
	5 dichlorodifluoromethane	85	4.569	4.568	(0.547)	2273273	30.0000	30.9972
	7 Chloromethane	50	4.806	4.806	(0.575)	2257432	30.0000	29.2810
	8 Vinyl Chloride	62	4.946	4.960	(0.592)	2347724	30.0000	29.6651
	10 Bromomethane	94	5.351	5.365	(0.641)	1278886	30.0000	30.6801
	11 Chloroethane	64	5.435	5.434	(0.651)	1457613	30.0000	29.9902
	14 Trichlorofluoromethane	101	5.686	5.686	(0.681)	3273023	30.0000	28.9208
	13 Ethanol	45	5.686	5.686	(0.681)	204588	1500.00	1498.62
	18 Acrolein	56	5.993	5.993	(0.717)	671724	300.000	332.752
	22 Acetone	43	6.105	6.091	(0.731)	627787	120.000	117.254
	23 1,1-Dichloroethene	96	6.147	6.147	(0.736)	1417488	30.0000	31.3732
	24 Iodomethane	142	6.328	6.328	(0.758)	1750486	30.0000	31.8645
	25 Acetonitrile	41	6.314	6.314	(0.756)	436555	300.000	279.600
	29 tert-Butyl alcohol	59	6.440	6.440	(0.771)	597932	600.000	654.286
	30 Methylene Chloride	84	6.496	6.496	(0.778)	1251730	30.0000	29.9939
	31 Acrylonitrile	53	6.636	6.635	(0.794)	1432943	300.000	319.794

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.719	6.733	(0.804)	1651270	30.0000	30.6783
36 Isopropyl ether	87	6.999	6.999	(0.838)	4915580	150.000	159.878(Q)
37 1,1-Dichloroethane	63	7.041	7.040	(0.843)	3003929	30.0000	29.5161
38 Chloroprene	53	7.124	7.124	(0.853)	3450615	30.0000	33.6339
41 2-Butanone	43	7.418	7.418	(0.888)	802444	120.000	121.506
43 cis-1,2-Dichloroethene	96	7.488	7.487	(0.896)	1575680	30.0000	30.9647
42 Propionitrile	54	7.460	7.459	(0.893)	537425	300.000	306.305
44 2,2-Dichloropropane	77	7.516	7.515	(0.900)	2461625	30.0000	33.5164
45 Methacrylonitrile	41	7.599	7.599	(0.910)	3098572	300.000	314.835
46 Bromochloromethane	128	7.683	7.683	(0.920)	485911	30.0000	31.0303
47 Chloroform	83	7.683	7.683	(0.920)	2646034	30.0000	29.3462
51 1,1,1-Trichloroethane	97	7.921	7.920	(0.948)	2864453	30.0000	31.0450
50 Isobutanol	41	7.865	7.865	(0.941)	281935	600.000	603.284
53 1,1-Dichloropropene	75	8.018	8.018	(0.960)	2676562	30.0000	31.7754
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	2516024	30.0000	31.0806
57 1,2-Dichloroethane	62	8.158	8.158	(0.977)	1425079	30.0000	29.2974
58 Benzene	78	8.200	8.200	(0.982)	6329740	30.0000	29.4038
59 n-Butanol	56	8.354	8.353	(1.000)	333632	900.000	936.311
61 Trichloroethene	130	8.633	8.633	(1.033)	1812552	30.0000	31.0957
64 1,2-Dichloropropane	63	8.800	8.800	(1.053)	1370405	30.0000	30.9322
66 1,4-Dioxane	88	8.842	8.842	(1.059)	169104	1500.00	1585.21
67 Dibromomethane	93	8.898	8.898	(1.065)	453492	30.0000	30.8872
68 Bromodichloromethane	83	8.954	8.954	(1.072)	1594150	30.0000	32.0696
71 cis-1,3-Dichloropropene	75	9.261	9.261	(0.874)	1855038	30.0000	35.3482
72 4-Methyl-2-pentanone	43	9.303	9.303	(0.877)	1992570	120.000	136.273
74 Toluene	91	9.555	9.554	(1.144)	6943185	30.0000	29.4608
76 trans-1,3-Dichloropropene	75	9.638	9.638	(1.154)	1305257	30.0000	34.6574
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	609940	30.0000	30.3514
78 2-Hexanone	43	9.904	9.904	(1.186)	1373134	120.000	125.712
79 1,3-Dichloropropane	76	9.946	9.945	(0.938)	1257241	30.0000	31.3272
80 Tetrachloroethene	164	9.988	9.987	(0.942)	1521974	30.0000	31.1299
81 Dibromochloromethane	129	10.155	10.155	(0.958)	754148	30.0000	34.3551
83 1,2-Dibromoethane	107	10.281	10.281	(0.970)	554629	30.0000	33.7540
84 1-Chlorohexane	91	10.504	10.504	(0.991)	2595046	30.0000	34.8023
86 Chlorobenzene	112	10.630	10.630	(1.003)	3983407	30.0000	30.2916
88 1,1,1,2-Tetrachloroethane	131	10.658	10.672	(1.005)	1302517	30.0000	32.9515
87 Ethylbenzene	106	10.672	10.672	(1.007)	2489834	30.0000	31.7741
89 m and p-Xylene	106	10.742	10.742	(1.013)	6042582	60.0000	62.7222
90 o-Xylene	106	11.077	11.077	(1.045)	2806694	30.0000	32.7947
91 Styrene	104	11.077	11.077	(1.045)	3916433	30.0000	32.1654
92 Bromoform	173	11.286	11.287	(1.065)	347018	30.0000	29.5001
93 isopropyl benzene	105	11.342	11.342	(0.904)	7941450	30.0000	29.8658
95 Cyclohexanone	55	11.482	11.482	(1.083)	943046	1200.00	1437.10
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	635580	30.0000	28.5811
99 1,2,3-Trichloropropane	110	11.622	11.621	(0.926)	183984	30.0000	30.5042
101 Bromobenzene	156	11.691	11.691	(0.932)	1428053	30.0000	28.9463
100 n-Propylbenzene	120	11.691	11.691	(0.932)	2322038	30.0000	30.0232(Q)
103 2-Chlorotoluene	126	11.817	11.817	(0.942)	1831710	30.0000	29.1016
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	6905682	30.0000	30.6912
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	1783203	30.0000	30.0025
105 tert-Butylbenzene	119	12.124	12.124	(0.967)	7176766	30.0000	31.2683
106 1,2,4-Trimethylbenzene	105	12.152	12.152	(0.969)	6840164	30.0000	30.8409
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	1956405	30.0000	31.2790
108 4-Isopropyltoluene	119	12.404	12.404	(0.989)	7835320	30.0000	31.2366

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
109 1,3-Dichlorobenzene	146	12.501	12.501	(0.997)	3101999	30.0000	29.4975
111 1,4-dichlorobenzene	146	12.571	12.571	(1.002)	2992711	30.0000	28.9808
113 n-Butylbenzene	91	12.809	12.809	(1.021)	7468446	30.0000	31.5566
114 1,2-Dichlorobenzene	146	12.962	12.962	(1.033)	2446335	30.0000	29.8354
115 1,2-Dibromo-3-chloropropane	157	13.772	13.773	(1.098)	80349	30.0000	29.4066
117 1,2,4-Trichlorobenzene	180	14.848	14.848	(1.184)	1686926	30.0000	32.9845
118 Hexachlorobutadiene	225	15.029	15.029	(1.198)	1547730	30.0000	30.0086
119 Naphthalene	128	15.267	15.267	(1.217)	1799144	30.0000	30.3876
120 1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	1292830	30.0000	33.1248

QC Flag Legend

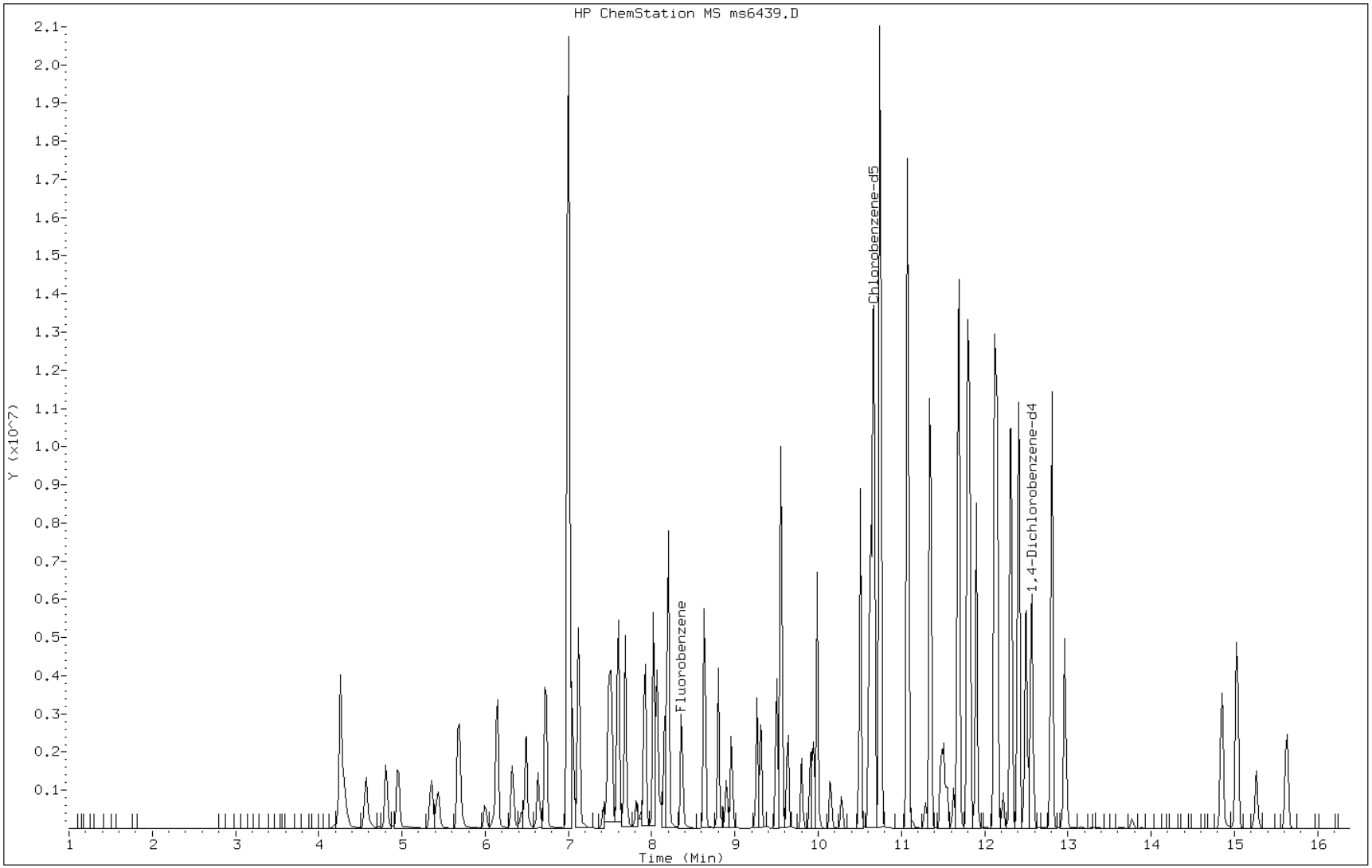
Q - Qualifier signal failed the ratio test.

Data File: ms6439.D

Date: 12-NOV-2010 21:26

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 30 Operator: RYERSONJ



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6440.D
Lab Smp Id: IC
Inj Date : 12-NOV-2010 21:46
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : IC,,M 60
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\8260B-H2OAFC.m
Meth Date : 12-Nov-2010 22:16 ryersonj Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	8.353	8.353	(1.000)	2476756	12.5000	
*	85 Chlorobenzene-d5	119	10.602	10.602	(1.000)	495519	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	668848	12.5000	
M	1 1,2-Dichloroethene (total)	96				6834711	120.000	116.674
M	2 Xylene (total)	106				17559992	180.000	170.141
M	3 Trihalomethane (total)	100				11609810	240.000	249.890
M	4 1,3-Dichloropropene (total)	100				6991210	120.000	138.682
	5 dichlorodifluoromethane	85	4.568	4.568	(0.547)	4589481	60.0000	55.9066
	7 Chloromethane	50	4.806	4.806	(0.575)	4489126	60.0000	52.0189
	8 Vinyl Chloride	62	4.960	4.960	(0.594)	4651899	60.0000	52.5119
	10 Bromomethane	94	5.365	5.365	(0.642)	2692576	60.0000	57.7062
	11 Chloroethane	64	5.434	5.434	(0.651)	3124745	60.0000	57.4355
	14 Trichlorofluoromethane	101	5.686	5.686	(0.681)	6678703	60.0000	52.7208
	13 Ethanol	45	5.686	5.686	(0.681)	401423	3000.00	2626.89
	18 Acrolein	56	5.993	5.993	(0.717)	1467297	600.000	649.347(A)
	22 Acetone	43	6.091	6.091	(0.729)	1343036	240.000	226.042
	23 1,1-Dichloroethene	96	6.147	6.147	(0.736)	2909237	60.0000	57.5238
	24 Iodomethane	142	6.328	6.328	(0.758)	3783300	60.0000	61.5245(A)
	25 Acetonitrile	41	6.314	6.314	(0.756)	899239	600.000	514.520
	29 tert-Butyl alcohol	59	6.440	6.440	(0.771)	1353945	1200.00	1323.57(A)
	30 Methylene Chloride	84	6.496	6.496	(0.778)	2625444	60.0000	56.9416
	31 Acrylonitrile	53	6.635	6.635	(0.794)	3085877	600.000	615.247(A)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
33 trans-1,2-Dichloroethene	96	6.733	6.733	(0.806)	3459443	60.0000	57.4180
36 Isopropyl ether	87	6.999	6.999	(0.838)	10134315	300.000	294.468
37 1,1-Dichloroethane	63	7.040	7.040	(0.843)	6262043	60.0000	54.9686
38 Chloroprene	53	7.124	7.124	(0.853)	7119585	60.0000	61.9961(A)
41 2-Butanone	43	7.418	7.418	(0.888)	1810791	240.000	244.952(A)
43 cis-1,2-Dichloroethene	96	7.487	7.487	(0.896)	3375268	60.0000	59.2565
42 Propionitrile	54	7.459	7.459	(0.893)	1183845	600.000	602.781(A)
44 2,2-Dichloropropane	77	7.515	7.515	(0.900)	5101788	60.0000	62.0563(A)
45 Methacrylonitrile	41	7.599	7.599	(0.910)	6587777	600.000	597.982
46 Bromochloromethane	128	7.683	7.683	(0.920)	1055883	60.0000	60.2385(A)
47 Chloroform	83	7.683	7.683	(0.920)	5616429	60.0000	55.6475
51 1,1,1-Trichloroethane	97	7.920	7.920	(0.948)	5859148	60.0000	56.7300
50 Isobutanol	41	7.864	7.865	(0.941)	594991	1200.00	1137.40
53 1,1-Dichloropropene	75	8.018	8.018	(0.960)	5476621	60.0000	58.0838
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	5296386	60.0000	58.4498
57 1,2-Dichloroethane	62	8.158	8.158	(0.977)	2979149	60.0000	54.7155
58 Benzene	78	8.200	8.200	(0.982)	12848363	60.0000	53.3205
59 n-Butanol	56	8.353	8.353	(1.000)	696716	1800.00	1780.59(A)
61 Trichloroethene	130	8.633	8.633	(1.033)	3920164	60.0000	60.0817(A)
64 1,2-Dichloropropane	63	8.800	8.800	(1.053)	2976273	60.0000	60.0156(A)
66 1,4-Dioxane	88	8.842	8.842	(1.059)	336063	3000.00	2814.38
67 Dibromomethane	93	8.898	8.898	(1.065)	998546	60.0000	60.7583(A)
68 Bromodichloromethane	83	8.954	8.954	(1.072)	3451848	60.0000	62.0361(A)
71 cis-1,3-Dichloropropene	75	9.261	9.261	(0.874)	4093710	60.0000	69.9509(A)
72 4-Methyl-2-pentanone	43	9.303	9.303	(0.877)	4431719	240.000	271.787(A)
74 Toluene	91	9.554	9.554	(1.144)	13589722	60.0000	51.5139
76 trans-1,3-Dichloropropene	75	9.638	9.638	(1.154)	2897500	60.0000	68.7308(A)
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	1347747	60.0000	59.9140
78 2-Hexanone	43	9.904	9.904	(1.186)	3080483	240.000	250.436(A)
79 1,3-Dichloropropane	76	9.945	9.945	(0.938)	2721061	60.0000	60.8000(A)
80 Tetrachloroethene	164	9.987	9.987	(0.942)	3170177	60.0000	58.1454
81 Dibromochloromethane	129	10.155	10.155	(0.958)	1722789	60.0000	70.3766(A)
83 1,2-Dibromoethane	107	10.281	10.281	(0.970)	1245389	60.0000	67.9656(A)
84 1-Chlorohexane	91	10.504	10.504	(0.991)	5264431	60.0000	63.3106(A)
86 Chlorobenzene	112	10.630	10.630	(1.003)	8259056	60.0000	56.3197
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.007)	2808108	60.0000	63.7041(A)
87 Ethylbenzene	106	10.672	10.672	(1.007)	5099708	60.0000	58.3593
89 m and p-Xylene	106	10.742	10.742	(1.013)	11839576	120.000	110.204
90 o-Xylene	106	11.077	11.077	(1.045)	5720416	60.0000	59.9375
91 Styrene	104	11.077	11.077	(1.045)	8328138	60.0000	60.9883(A)
92 Bromoform	173	11.286	11.287	(1.065)	818744	60.0000	61.8297(A)
93 isopropyl benzene	105	11.342	11.342	(0.904)	14694814	60.0000	53.3508
95 Cyclohexanone	55	11.482	11.482	(1.083)	1837806	2400.00	2511.40(A)
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	1327374	60.0000	57.6241
99 1,2,3-Trichloropropane	110	11.621	11.621	(0.926)	394183	60.0000	63.0928(A)
101 Bromobenzene	156	11.691	11.691	(0.932)	3058411	60.0000	59.8476
100 n-Propylbenzene	120	11.691	11.691	(0.932)	4625741	60.0000	57.7391
103 2-Chlorotoluene	126	11.817	11.817	(0.942)	3706567	60.0000	56.8505
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	12912940	60.0000	55.4031
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	3655039	60.0000	59.3678
105 tert-Butylbenzene	119	12.124	12.124	(0.967)	13261377	60.0000	55.7784
106 1,2,4-Trimethylbenzene	105	12.152	12.152	(0.969)	12639181	60.0000	55.0151
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	3761299	60.0000	58.0543
108 4-Isopropyltoluene	119	12.404	12.404	(0.989)	14006592	60.0000	53.9065

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	12.501	12.501	(0.997)	6250968	60.0000	57.3843
111 1,4-dichlorobenzene	146	12.571	12.571	(1.002)	5973952	60.0000	55.8482
113 n-Butylbenzene	91	12.809	12.809	(1.021)	13211147	60.0000	53.8894
114 1,2-Dichlorobenzene	146	12.962	12.962	(1.033)	4916652	60.0000	57.8878
115 1,2-Dibromo-3-chloropropane	157	13.772	13.773	(1.098)	186750	60.0000	65.2026(A)
117 1,2,4-Trichlorobenzene	180	14.848	14.848	(1.184)	3255980	60.0000	61.4607(A)
118 Hexachlorobutadiene	225	15.029	15.029	(1.198)	2780938	60.0000	52.0528
119 Naphthalene	128	15.267	15.267	(1.217)	3774233	60.0000	60.9308(A)
120 1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	2513462	60.0000	62.1708(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: ms6440.D

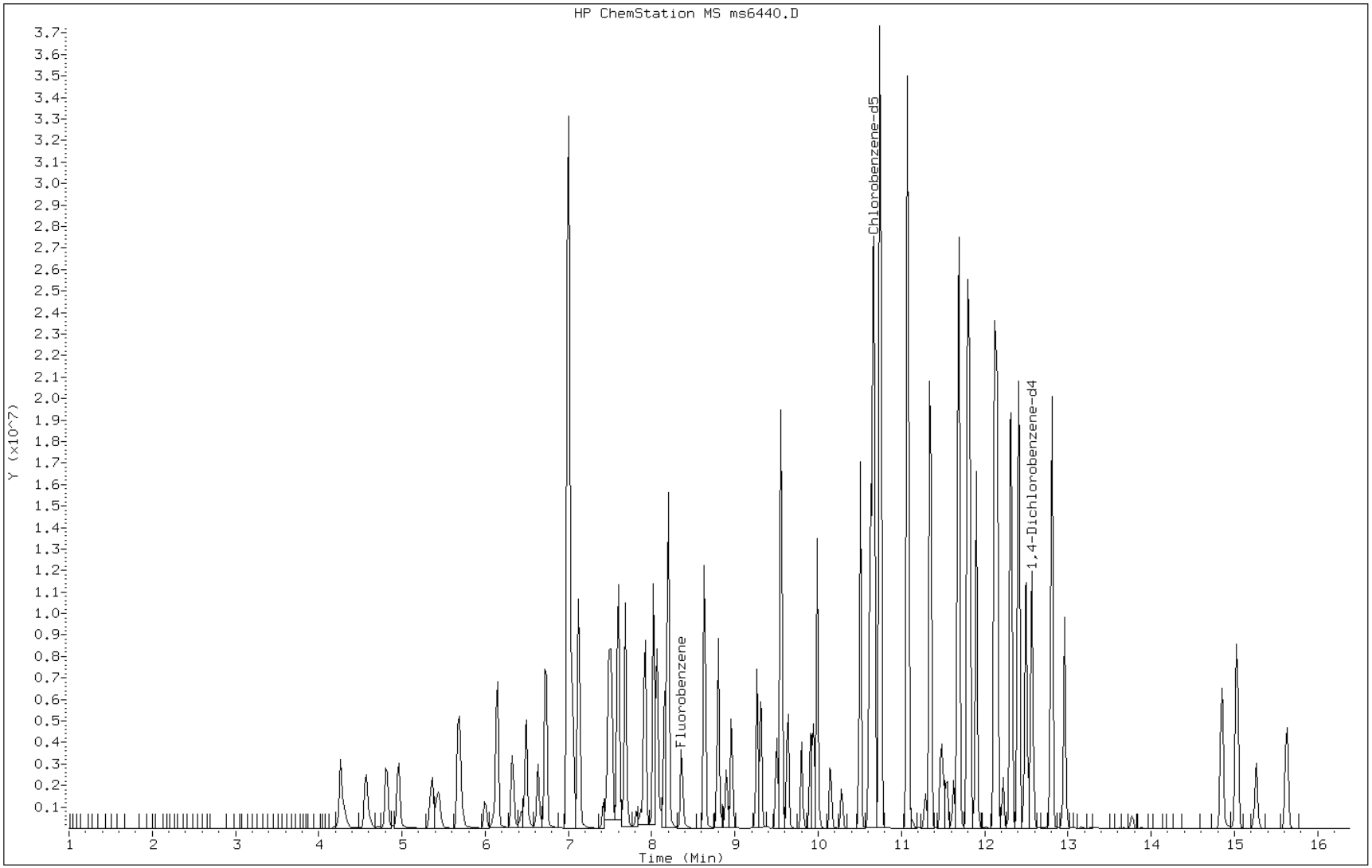
Date: 12-NOV-2010 21:46

Client ID:

Instrument: GCMS1.i

Sample Info: IC,,M 60

Operator: RYERSONJ



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-42958/16 Calibration Date: 11/28/2010 13:04

Instrument ID: MSV_G2 Calib Start Date: 11/28/2010 10:28

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/28/2010 12:25

Lab File ID: g2_7802.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0133	0.0118		44.1	50.0	-11.7	55.0
Tert-butyl alcohol (2-methyl-2-propanol)	Lin1	0.0087	0.0074		250	250	0.2	55.0
Isopropyl ether	Ave	0.2087	0.1905		45.6	50.0	-8.7	35.0
n-Butanol	Lin1	0.0046	0.0028		233	300	-22.2	55.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7802.D
Lab Smp Id: ICV
Inj Date : 28-NOV-2010 13:04
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : ICV,,MC
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 jacksonto Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: icvmc.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	7.859	7.859	(1.000)	1281087	10.0000	
* 85 Chlorobenzene-d5	119	10.119	10.119	(1.000)	240805	10.0000	
* 110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	307025	10.0000	(Q)
25 Acetonitrile	41	5.791	5.791	(0.737)	75289	44.1261	44.1260
36 Isopropyl ether	87	6.486	6.479	(0.825)	1220259	45.6382	45.6382(Q)
29 tert-Butyl alcohol	59	5.917	5.917	(0.753)	235814	250.498	250.498
60 n-Butanol	56	7.866	7.866	(1.001)	109019	233.285	233.285

QC Flag Legend

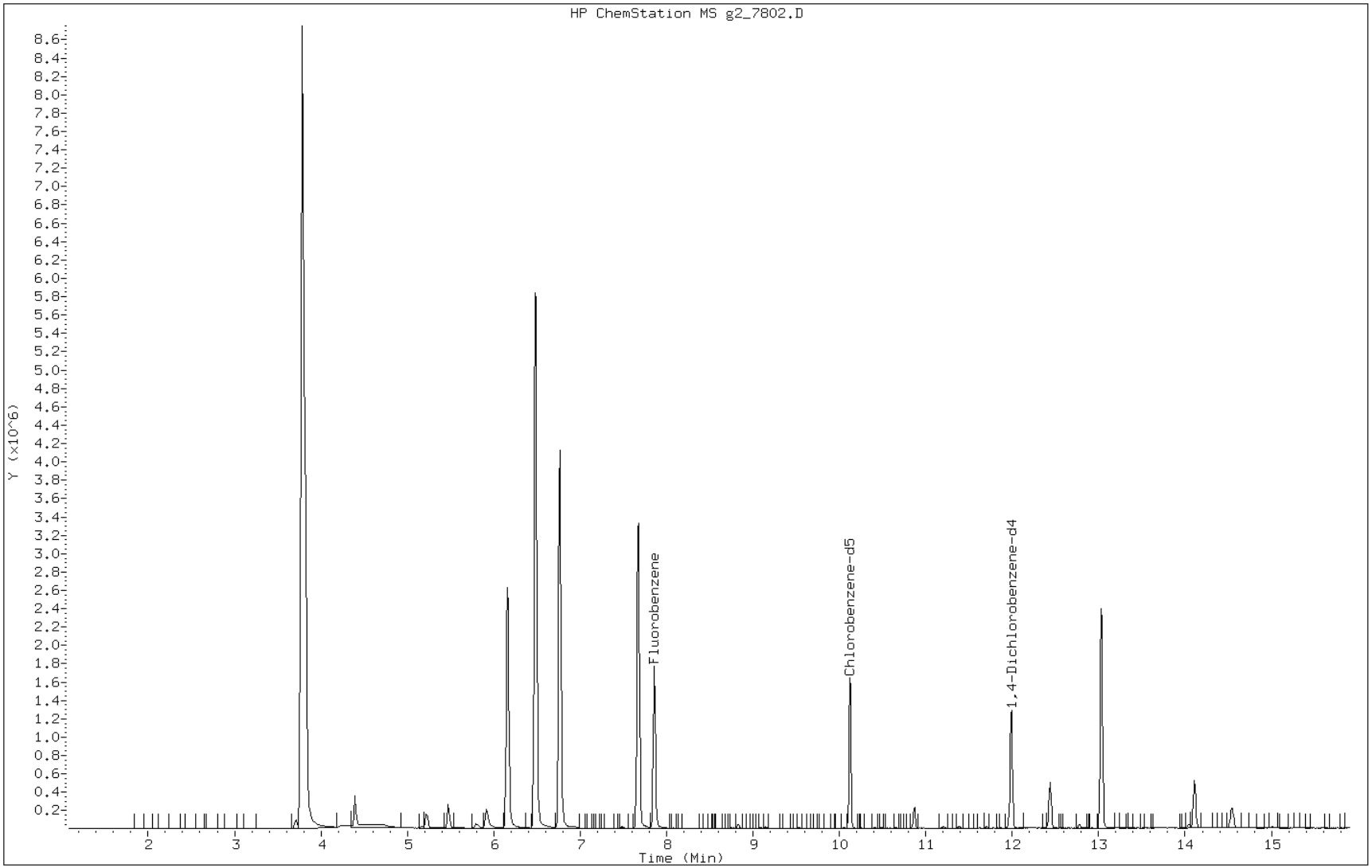
Q - Qualifier signal failed the ratio test.

Data File: g2_7802.D

Date: 28-NOV-2010 13:04

Client ID: Instrument: GCMS2.i

Sample Info: ICV,,MC Operator: ILCZYSZD



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-42958/17 Calibration Date: 11/28/2010 13:24

Instrument ID: MSV_G2 Calib Start Date: 11/28/2010 10:28

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/28/2010 12:25

Lab File ID: g2_7803.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.3011	0.3021		20.5	20.0	0.3	35.0
Xylenes, Total	Ave	2.730	2.553		28.1	30.0	-6.5	35.0
Dichlorodifluoromethane	Ave	0.3757	0.4203		11.2	10.0	11.9	55.0
Chloromethane	Ave	0.3891	0.4459	0.1000	11.5	10.0	14.6	35.0
Vinyl chloride	Ave	0.4268	0.4668		10.9	10.0	9.4	35.0
Bromomethane	Ave	0.2202	0.2556		11.6	10.0	16.0	35.0
Chloroethane	Ave	0.2694	0.2996		11.1	10.0	11.2	35.0
Trichlorofluoromethane	Ave	0.4734	0.5049		10.7	10.0	6.6	50.0
Acrolein	Ave	0.0173	0.0149		86.2	100	-13.8	55.0
Acetone	Lin1	0.0478	0.0369		48.4	40.0	21.1	55.0
1,1-Dichloroethene	Ave	0.2749	0.3077		11.2	10.0	12.0	35.0
Iodomethane	Ave	0.2869	0.3588		12.5	10.0	25.0	35.0
Methylene Chloride	Ave	0.2379	0.2562		10.8	10.0	7.7	35.0
Acrylonitrile	Ave	0.0398	0.0391		98.2	100	-1.8	55.0
trans-1,2-Dichloroethene	Ave	0.2888	0.3075		10.6	10.0	6.5	35.0
1,1-Dichloroethane	Ave	0.5914	0.5985	0.1000	10.1	10.0	1.2	35.0
2-Butanone (MEK)	Ave	0.0470	0.0488		41.6	40.0	4.0	55.0
cis-1,2-Dichloroethene	Ave	0.3003	0.2967		9.88	10.0	-1.2	35.0
2,2-Dichloropropane	Ave	0.3209	0.3325		10.4	10.0	3.6	35.0
Bromochloromethane	Ave	0.0892	0.0914		10.3	10.0	2.6	35.0
Chloroform	Ave	0.4896	0.4755		9.71	10.0	-2.9	35.0
1,1,1-Trichloroethane	Ave	0.4253	0.4293		10.1	10.0	0.9	35.0
1,1-Dichloropropene	Ave	0.4637	0.4618		9.96	10.0	-0.4	35.0
Carbon tetrachloride	Ave	0.3416	0.3399		9.95	10.0	-0.5	35.0
1,2-Dichloroethane	Ave	0.2786	0.2746		9.86	10.0	-1.4	35.0
Benzene	Ave	1.223	1.234		10.1	10.0	0.9	35.0
Trichloroethene	Ave	0.2649	0.2630		9.93	10.0	-0.7	35.0
1,2-Dichloropropane	Ave	0.2862	0.2785		9.73	10.0	-2.7	35.0
Dibromomethane	Ave	0.0953	0.0938		9.84	10.0	-1.6	35.0
Bromodichloromethane	Ave	0.2998	0.2830		9.44	10.0	-5.6	35.0
cis-1,3-Dichloropropene	Ave	0.3706	0.3541		9.55	10.0	-4.5	35.0
4-Methyl-2-pentanone	Ave	0.1076	0.1165		43.3	40.0	8.2	55.0
Toluene	Ave	1.213	1.172		9.66	10.0	-3.4	35.0
trans-1,3-Dichloropropene	Ave	0.2665	0.2522		9.47	10.0	-5.3	35.0
1,1,2-Trichloroethane	Ave	0.1254	0.1196		9.54	10.0	-4.6	35.0
2-Hexanone	Ave	0.3915	0.4090		41.8	40.0	4.5	55.0
1,3-Dichloropropane	Ave	1.352	1.304		9.64	10.0	-3.6	35.0
Tetrachloroethene	Ave	0.9906	0.9530		9.62	10.0	-3.8	35.0
Dibromochloromethane	Ave	0.6886	0.6778		9.84	10.0	-1.6	35.0
1,2-Dibromoethane (EDB)	Ave	0.6038	0.5864		9.71	10.0	-2.9	35.0
1-Chlorohexane	Ave	2.198	2.052		9.34	10.0	-6.6	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-42958/17 Calibration Date: 11/28/2010 13:24

Instrument ID: MSV_G2 Calib Start Date: 11/28/2010 10:28

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/28/2010 12:25

Lab File ID: g2_7803.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	3.484	3.323	0.3000	9.54	10.0	-4.6	35.0
1,1,1,2-Tetrachloroethane	Ave	1.039	1.013		9.75	10.0	-2.5	35.0
Ethylbenzene	Ave	2.226	2.120		9.53	10.0	-4.7	35.0
m-Xylene & p-Xylene	Ave	2.771	2.603		18.8	20.0	-6.1	35.0
o-Xylene	Ave	2.648	2.454		9.27	10.0	-7.3	35.0
Styrene	Ave	3.996	3.819		9.56	10.0	-4.4	35.0
Bromoform	Ave	0.3035	0.3106	0.1000	10.2	10.0	2.4	35.0
Isopropylbenzene	Ave	4.832	5.067		10.5	10.0	4.9	35.0
Cyclohexanone	Ave	0.0225	0.0210		233	250	-6.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.5411	0.5557	0.3000	10.3	10.0	2.7	35.0
1,2,3-Trichloropropane	Ave	0.1332	0.1393		10.5	10.0	4.6	35.0
Bromobenzene	Ave	0.8519	0.8376		9.83	10.0	-1.7	35.0
n-Propylbenzene	Ave	1.439	1.350		9.38	10.0	-6.2	35.0
1,3,5-Trimethylbenzene	Ave	4.267	4.167		9.77	10.0	-2.3	35.0
2-Chlorotoluene	Ave	1.092	1.069		9.79	10.0	-2.1	35.0
4-Chlorotoluene	Ave	1.094	1.053		9.63	10.0	-3.7	35.0
tert-Butylbenzene	Ave	4.142	4.038		9.75	10.0	-2.5	35.0
1,2,4-Trimethylbenzene	Ave	4.277	4.106		9.60	10.0	-4.0	35.0
sec-Butylbenzene	Ave	1.106	1.053		9.52	10.0	-4.8	35.0
4-Isopropyltoluene	Ave	4.685	4.400		9.39	10.0	-6.1	35.0
1,3-Dichlorobenzene	Ave	1.862	1.828		9.82	10.0	-1.8	35.0
1,4-Dichlorobenzene	Ave	1.811	1.780		9.83	10.0	-1.7	35.0
n-Butylbenzene	Ave	5.106	4.727		9.26	10.0	-7.4	35.0
1,2-Dichlorobenzene	Ave	1.548	1.539		9.94	10.0	-0.6	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0693	0.0695		10.0	10.0	0.3	55.0
1,2,4-Trichlorobenzene	Ave	1.011	0.9734		9.63	10.0	-3.7	35.0
Hexachlorobutadiene	Ave	0.6678	0.6202		9.29	10.0	-7.1	35.0
Naphthalene	Ave	1.621	1.590		9.81	10.0	-1.9	35.0
1,2,3-Trichlorobenzene	Ave	0.7851	0.7570		9.64	10.0	-3.6	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7803.D
Lab Smp Id: ICV
Inj Date : 28-NOV-2010 13:24
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : ICV,,MA
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 jacksonto Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: icvma.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	1204658	10.0000		
*	85 Chlorobenzene-d5	119	10.119	10.119	(1.000)	226058	10.0000		
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	300245	10.0000		(Q)
M	1 1,2-Dichloroethene (total)	96				727823	20.5265	20.5264	
M	2 Xylene (total)	106				1731592	28.0533	28.0533	
M	3 1,3-Dichloropropene (total)	100				730415	19.0204	19.0204	
M	4 Trihalomethanes (total)	100				1137200	39.2308	39.2308	
	5 dichlorodifluoromethane	85	4.059	4.059	(0.517)	506255	11.1872	11.1872	
	7 Chloromethane	50	4.297	4.297	(0.547)	537133	11.4602	11.4602	
	8 Vinyl Chloride	62	4.436	4.450	(0.564)	562363	10.9386	10.9386	
	10 Bromomethane	94	4.827	4.827	(0.614)	307888	11.6048	11.6048	
	11 Chloroethane	64	4.911	4.925	(0.625)	360857	11.1182	11.1182	
	13 Trichlorofluoromethane	101	5.163	5.163	(0.657)	608263	10.6649	10.6649	
	19 Acrolein	56	5.470	5.470	(0.696)	179699	86.2322	86.2322	
	20 Acetone	43	5.568	5.568	(0.708)	177550	48.4351	48.4351	
	23 1,1-Dichloroethene	96	5.609	5.609	(0.714)	370721	11.1963	11.1963	
	24 Iodomethane	142	5.791	5.791	(0.737)	432176	12.5036	12.5036	
	30 Methylene Chloride	84	5.959	5.959	(0.758)	308617	10.7692	10.7692	
	31 Acrylonitrile	53	6.115	6.115	(0.778)	470440	98.1690	98.1690	
	33 trans-1,2-Dichloroethene	96	6.200	6.200	(0.789)	370418	10.6457	10.6457	
	37 1,1-Dichloroethane	63	6.522	6.522	(0.830)	720935	10.1190	10.1190	
	41 2-Butanone	43	6.901	6.901	(0.878)	235276	41.5922	41.5922	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
43 cis-1,2-Dichloroethene	96	6.958	6.958	(0.885)	357405	9.88078	9.88078
44 2,2-Dichloropropane	77	6.987	6.987	(0.889)	400578	10.3633	10.3633
46 Bromochloromethane	128	7.159	7.159	(0.911)	110147	10.2560	10.2560
47 Chloroform	83	7.166	7.166	(0.912)	572846	9.71313	9.71313
51 1,1,1-Trichloroethane	97	7.395	7.395	(0.941)	517208	10.0950	10.0950
53 1,1-Dichloropropene	75	7.502	7.502	(0.955)	556315	9.95892	9.95892
54 Carbon Tetrachloride	117	7.545	7.545	(0.960)	409464	9.94954	9.94954
56 1,2-Dichloroethane	62	7.652	7.652	(0.974)	330830	9.85824	9.85824
58 Benzene	78	7.688	7.688	(0.978)	1486101	10.0877	10.0877
61 Trichloroethene	130	8.145	8.145	(1.036)	316875	9.93167	9.93167
64 1,2-Dichloropropane	63	8.324	8.324	(1.059)	335524	9.73166	9.73166
67 Dibromomethane	93	8.417	8.417	(1.071)	113007	9.84021	9.84021
68 Bromodichloromethane	83	8.488	8.488	(1.080)	340923	9.43985	9.43985
71 cis-1,3-Dichloropropene	75	8.803	8.803	(1.120)	426574	9.55442	9.55442
72 4-Methyl-2-pentanone	43	8.853	8.853	(1.126)	561367	43.2912	43.2912
74 Toluene	91	9.089	9.089	(1.156)	1411819	9.66089	9.66089
76 trans-1,3-Dichloropropene	75	9.175	9.175	(1.167)	303841	9.46600	9.46600
77 1,1,2-Trichloroethane	97	9.332	9.332	(1.187)	144036	9.53842	9.53842
78 2-Hexanone	43	9.447	9.447	(0.934)	369858	41.7927	41.7927
79 1,3-Dichloropropane	76	9.468	9.468	(0.936)	294675	9.64165	9.64165
80 Tetrachloroethene	164	9.511	9.511	(0.940)	215433	9.62002	9.62002
81 Dibromochloromethane	129	9.668	9.668	(0.955)	153221	9.84284	9.84284
83 1,2-Dibromoethane	107	9.797	9.797	(0.968)	132557	9.71108	9.71108
84 1-Chlorohexane	91	10.033	10.033	(0.992)	463918	9.33594	9.33594
86 Chlorobenzene	112	10.147	10.147	(1.003)	751271	9.53806	9.53806
87 1,1,1,2-Tetrachloroethane	131	10.176	10.176	(1.006)	228931	9.74629	9.74629
88 Ethylbenzene	106	10.183	10.183	(1.006)	479291	9.52525	9.52525
89 m and p-Xylene	106	10.262	10.262	(1.014)	1176769	18.7844	18.7844
91 o-Xylene	106	10.584	10.584	(1.046)	554823	9.26889	9.26889
90 Styrene	104	10.584	10.584	(1.046)	863207	9.55621	9.55620
92 Bromoform	173	10.784	10.784	(1.066)	70210	10.2350	10.2350
93 isopropyl benzene	105	10.848	10.848	(0.905)	1521464	10.4874	10.4874
95 Cyclohexanone	55	10.970	10.970	(1.084)	118561	232.986	232.986
97 1,1,2,2-Tetrachloroethane	83	11.048	11.048	(0.921)	166832	10.2685	10.2685
99 1,2,3-Trichloropropane	110	11.120	11.120	(0.927)	41824	10.4599	10.4599
101 Bromobenzene	156	11.177	11.177	(0.932)	251472	9.83170	9.83170
100 n-Propylbenzene	120	11.177	11.177	(0.932)	405205	9.37544	9.37544(Q)
103 2-Chlorotoluene	126	11.299	11.299	(0.942)	320911	9.79012	9.79012
102 1,3,5-Trimethylbenzene	105	11.284	11.284	(0.941)	1251120	9.76521	9.76521
104 4-Chlorotoluene	126	11.377	11.377	(0.949)	316260	9.63073	9.63073
105 tert-Butylbenzene	119	11.592	11.592	(0.967)	1212443	9.74917	9.74917
106 1,2,4-Trimethylbenzene	105	11.620	11.620	(0.969)	1232664	9.59878	9.59878
107 sec-Butylbenzene	134	11.778	11.778	(0.982)	316020	9.52032	9.52032(Q)
108 4-Isopropyltoluene	119	11.871	11.871	(0.990)	1321130	9.39190	9.39190
109 1,3-Dichlorobenzene	146	11.942	11.942	(0.996)	548785	9.81877	9.81877
112 1,4-dichlorobenzene	146	12.014	12.014	(1.002)	534444	9.82915	9.82915
113 n-Butylbenzene	91	12.242	12.242	(1.021)	1419361	9.25856	9.25856
114 1,2-Dichlorobenzene	146	12.385	12.385	(1.033)	461953	9.94083	9.94083
115 1,2-Dibromo-3-chloropropane	157	13.143	13.143	(1.096)	20875	10.0341	10.0341
116 1,2,4-Trichlorobenzene	180	14.144	14.144	(1.179)	292255	9.63107	9.63107
117 Hexachlorobutadiene	225	14.309	14.309	(1.193)	186210	9.28750	9.28750
118 Naphthalene	128	14.523	14.523	(1.211)	477362	9.80981	9.80980
119 1,2,3-Trichlorobenzene	180	14.859	14.859	(1.239)	227292	9.64175	9.64175

QC Flag Legend

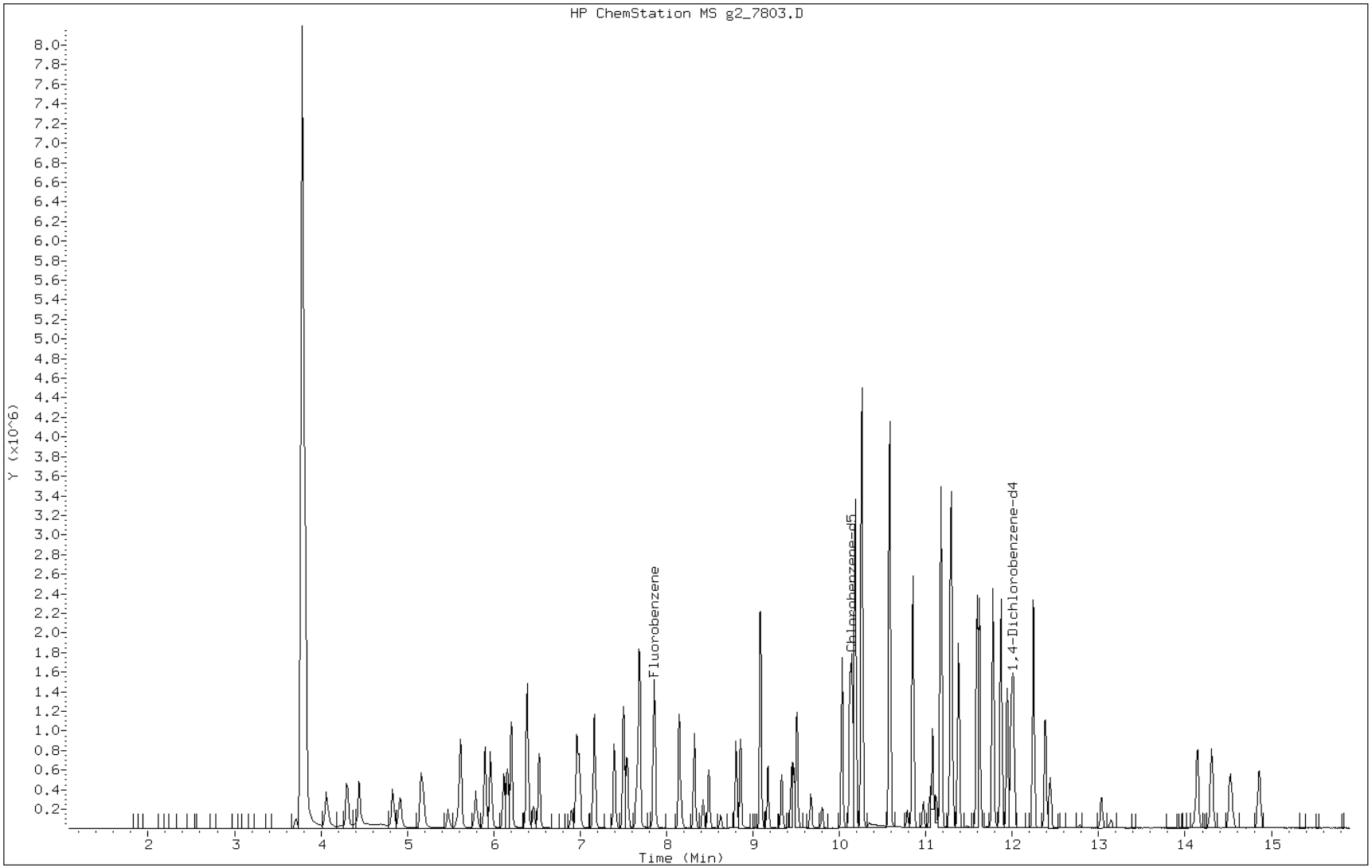
Q - Qualifier signal failed the ratio test.

Data File: g2_7803.D

Date: 28-NOV-2010 13:24

Client ID: Instrument: GCMS2.i

Sample Info: ICV,,MA Operator: ILCZYSZD



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-42958/18 Calibration Date: 11/28/2010 16:02

Instrument ID: MSV_G2 Calib Start Date: 11/13/2010 00:53

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/13/2010 02:55

Lab File ID: g2_7811.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propene oxide	Ave		0.0023		4.10	500		

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7811.D
Lab Smp Id: ICV
Inj Date : 28-NOV-2010 16:02
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : ICV,,SA
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 jacksonto Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: icvsa.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS		
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
* 59 Fluorobenzene	96	7.860	7.859	(1.000)	873022	10.0000		
* 85 Chlorobenzene-d5	119	10.126	10.119	(1.000)	160311	10.0000		
* 110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	218279	10.0000		(Q)
$ 49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	189219	9.69300	9.69300	
$ 55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	182632	9.89061	9.89060	
$ 73 Toluene-d8	98	9.032	9.032	(0.892)	782320	10.0653	10.0653	
$ 96 4-Bromofluorobenzene (Surr)	95	11.006	11.005	(1.087)	272995	8.96486	8.96486	
6 1,2-Dichlorotetrafluoroethane	85	4.213	4.213	(0.536)	320850	9.80307	9.80307	
9 Ethylene Oxide	43	4.772	4.772	(0.607)	1111095	1287.42	1287.42	
12 Dichlorofluoromethane	67	5.037	5.037	(0.641)	712022	9.90004	9.90004	
15 1,2-dichloro-1,1,2-trifluoroe	117	5.302	5.302	(0.675)	282731	9.64707	9.64707	
17 Ethyl Ether	59	5.344	5.344	(0.680)	141237	9.40319	9.40319	
18 Propylene Oxide	58	5.526	5.582	(0.703)	98949			(aQ)
16 2,2-dichloro-1,1,1-trifluoroe	83	5.344	5.344	(0.680)	506997	9.36943	9.36943	
21 Trichlorotrifluoroethane	151	5.582	5.582	(0.710)	238126	9.43756	9.43756	
22 2-propanol	45	5.582	5.596	(0.710)	120673	164.161	164.161	
26 Methyl Acetate	43	5.819	5.819	(0.740)	352992	44.8970	44.8970	
27 Allyl Chloride	41	5.875	5.875	(0.748)	615826	9.78816	9.78816	
28 Carbon Disulfide	76	5.889	5.889	(0.749)	1222516	9.11619	9.11619	
32 Methyl t-butyl ether	73	6.158	6.158	(0.783)	472887	8.99049	8.99049	
34 Hexane	57	6.387	6.386	(0.631)	495583	10.1857	10.1857	
35 Vinyl acetate	43	6.458	6.458	(0.822)	334002	21.7254	21.7254	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
39	ETBE	59	6.766	6.765	(0.861)	3314809	48.4483	48.4482
40	Ethyl Acetate	43	6.894	6.894	(0.877)	128581	18.9566	18.9566
48	Tetrahydrofuran	42	7.195	7.194	(0.915)	49108	17.1327	17.1327
52	Cyclohexane	56	7.481	7.480	(0.952)	690873	8.84016	8.84016
57	TAME	73	7.666	7.666	(0.975)	2384738	48.8724	48.8724
62	2-Pentanone	43	8.174	8.174	(1.040)	224690	45.7888	45.7888
65	Methyl Cyclohexane	55	8.346	8.338	(1.062)	537609	8.58619	8.58619
63	Methyl Methacrylate	100	8.267	8.267	(1.052)	39074	21.5929	21.5929
69	2-nitropropane	41	8.617	8.617	(0.851)	24409	12.6088	12.6088
70	2-Chloroethyl vinyl ether	63	8.625	8.624	(0.852)	46514	12.2494	12.2494
75	Ethyl methacrylate	69	9.161	9.161	(0.905)	269223	20.1459	20.1459
82	Tetrahydrothiophene	60	9.719	9.718	(0.960)	73226	9.11785	9.11784
94	cis-1,4-dichloro-2-butene	53	10.863	10.862	(0.906)	28892	9.98953	9.98953
98	t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	29295	10.5969	10.5969
111	1,2,3-Trimethylbenzene	105	12.014	12.014	(1.002)	837877	9.58212	9.58212

QC Flag Legend

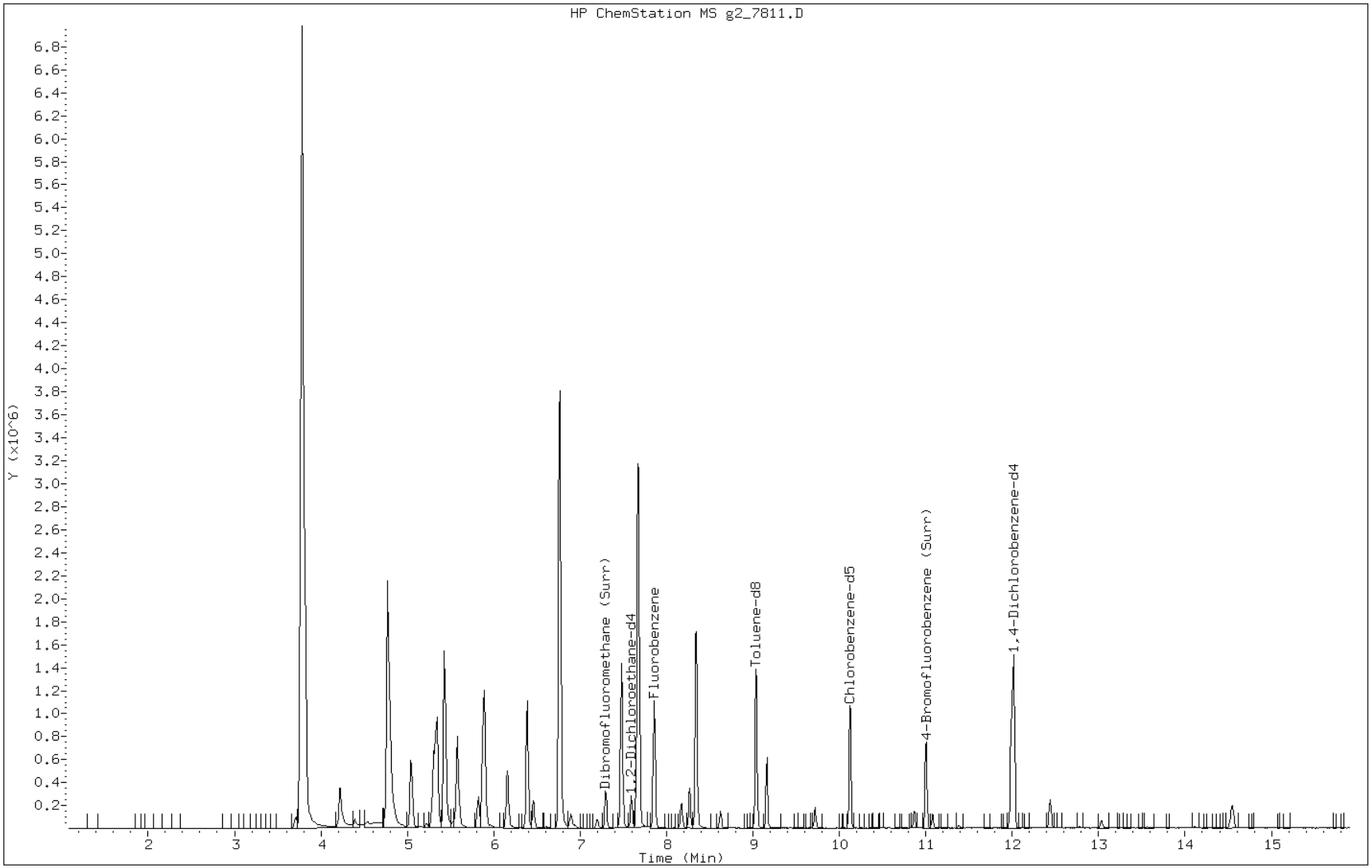
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7811.D

Date: 28-NOV-2010 16:02

Client ID: Instrument: GCMS2.i

Sample Info: ICV,,SA Operator: ILCZYSZD



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-42958/18 Calibration Date: 11/28/2010 16:02

Instrument ID: MSV_G2 Calib Start Date: 11/28/2010 13:43

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/28/2010 15:42

Lab File ID: g2_7811.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.3749	0.3675		9.80	10.0	-2.0	50.0
Ethylene oxide	Ave	0.0099	0.0102		1290	1250	3.0	55.0
Dichlorofluoromethane	Ave	0.8238	0.8156		9.90	10.0	-1.0	55.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.3357	0.3239		9.65	10.0	-3.5	55.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.6198	0.5807		9.37	10.0	-6.3	55.0
Ethyl ether	Ave	0.1720	0.1618		9.40	10.0	-6.0	35.0
1,1,2-Trichlorotrifluoroethane	Ave	0.2890	0.2728		9.44	10.0	-5.6	55.0
2-Propanol	Ave	0.0084	0.0069		164	200	-17.9	55.0
Methyl acetate	Ave	0.0901	0.0809		44.9	50.0	-10.2	55.0
Allyl chloride	Ave	0.7207	0.7054		9.79	10.0	-2.1	35.0
Carbon disulfide	Ave	1.536	1.400		9.12	10.0	-8.8	55.0
Methyl tert-butyl ether	Ave	0.6025	0.5417		8.99	10.0	-10.1	35.0
Hexane	Ave	3.035	3.091		10.2	10.0	1.9	35.0
Vinyl acetate	Ave	0.1761	0.1913		21.7	20.0	8.6	55.0
Tert-butyl ethyl ether	Ave	0.7837	0.7594		48.4	50.0	-3.1	35.0
Ethyl acetate	Ave	0.0777	0.0736		19.0	20.0	-5.2	55.0
Tetrahydrofuran	Ave	0.0328	0.0281		17.1	20.0	-14.3	55.0
Cyclohexane	Ave	0.8952	0.7914		8.84	10.0	-11.6	35.0
Tert-amyl methyl ether	Ave	0.5589	0.5463		48.9	50.0	-2.3	35.0
2-Pentanone	Ave	0.0562	0.0643		45.8	40.0	14.5	55.0
Methyl methacrylate	Lin	0.0209	0.0224		21.6	20.0	8.0	35.0
Methylcyclohexane	Ave	0.7172	0.6158		8.59	10.0	-14.1	35.0
2-Nitropropane	Ave	0.1208	0.1523		12.6	10.0	26.1	55.0
2-Chloroethyl vinyl ether	Lin	0.2097	0.2902		12.2	10.0	22.5	55.0
Ethyl methacrylate	Lin1	0.8492	0.8397		20.1	20.0	0.7	35.0
Tetrahydrothiophene	Ave	0.5010	0.4568		9.12	10.0	-8.8	55.0
cis-1,4-Dichloro-2-butene	Ave	0.1325	0.1324		9.99	10.0	-0.1	55.0
trans-1,4-Dichloro-2-butene	Lin1	0.1187	0.1342		10.6	10.0	6.0	55.0
1,2,3-Trimethylbenzene	Ave	4.006	3.839		9.58	10.0	-4.2	35.0
Dibromofluoromethane (Surr)	Ave	0.2236	0.2167		9.69	10.0	-3.1	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2115	0.2092		9.89	10.0	-1.1	35.0
Toluene-d8 (Surr)	Ave	4.848	4.880		10.1	10.0	0.7	35.0
4-Bromofluorobenzene (Surr)	Ave	1.900	1.703		8.96	10.0	-10.4	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7811.D
Lab Smp Id: ICV
Inj Date : 28-NOV-2010 16:02
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : ICV,,SA
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\8260B-H2O.m
Meth Date : 29-Nov-2010 16:52 jacksonto Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: icvsa.sub
Target Version: 4.14
Processing Host: DENPC192

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 59 Fluorobenzene	96	7.860	7.859	(1.000)	873022	10.0000		
* 85 Chlorobenzene-d5	119	10.126	10.119	(1.000)	160311	10.0000		
* 110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	218279	10.0000		(Q)
$ 49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	189219	9.69300	9.69300	
$ 55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	182632	9.89061	9.89060	
$ 73 Toluene-d8	98	9.032	9.032	(0.892)	782320	10.0653	10.0653	
$ 96 4-Bromofluorobenzene (Surr)	95	11.006	11.005	(1.087)	272995	8.96486	8.96486	
6 1,2-Dichlorotetrafluoroethane	85	4.213	4.213	(0.536)	320850	9.80307	9.80307	
9 Ethylene Oxide	43	4.772	4.772	(0.607)	1111095	1287.42	1287.42	
12 Dichlorofluoromethane	67	5.037	5.037	(0.641)	712022	9.90004	9.90004	
15 1,2-dichloro-1,1,2-trifluoroe	117	5.302	5.302	(0.675)	282731	9.64707	9.64707	
17 Ethyl Ether	59	5.344	5.344	(0.680)	141237	9.40319	9.40319	
18 Propylene Oxide	58	5.526	5.582	(0.703)	98949			(aQ)
16 2,2-dichloro-1,1,1-trifluoroe	83	5.344	5.344	(0.680)	506997	9.36943	9.36943	
21 Trichlorotrifluoroethane	151	5.582	5.582	(0.710)	238126	9.43756	9.43756	
22 2-propanol	45	5.582	5.596	(0.710)	120673	164.161	164.161	
26 Methyl Acetate	43	5.819	5.819	(0.740)	352992	44.8970	44.8970	
27 Allyl Chloride	41	5.875	5.875	(0.748)	615826	9.78816	9.78816	
28 Carbon Disulfide	76	5.889	5.889	(0.749)	1222516	9.11619	9.11619	
32 Methyl t-butyl ether	73	6.158	6.158	(0.783)	472887	8.99049	8.99049	
34 Hexane	57	6.387	6.386	(0.631)	495583	10.1857	10.1857	
35 Vinyl acetate	43	6.458	6.458	(0.822)	334002	21.7254	21.7254	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
39	ETBE	59	6.766	6.765	(0.861)	3314809	48.4483	48.4482
40	Ethyl Acetate	43	6.894	6.894	(0.877)	128581	18.9566	18.9566
48	Tetrahydrofuran	42	7.195	7.194	(0.915)	49108	17.1327	17.1327
52	Cyclohexane	56	7.481	7.480	(0.952)	690873	8.84016	8.84016
57	TAME	73	7.666	7.666	(0.975)	2384738	48.8724	48.8724
62	2-Pentanone	43	8.174	8.174	(1.040)	224690	45.7888	45.7888
65	Methyl Cyclohexane	55	8.346	8.338	(1.062)	537609	8.58619	8.58619
63	Methyl Methacrylate	100	8.267	8.267	(1.052)	39074	21.5929	21.5929
69	2-nitropropane	41	8.617	8.617	(0.851)	24409	12.6088	12.6088
70	2-Chloroethyl vinyl ether	63	8.625	8.624	(0.852)	46514	12.2494	12.2494
75	Ethyl methacrylate	69	9.161	9.161	(0.905)	269223	20.1459	20.1459
82	Tetrahydrothiophene	60	9.719	9.718	(0.960)	73226	9.11785	9.11784
94	cis-1,4-dichloro-2-butene	53	10.863	10.862	(0.906)	28892	9.98953	9.98953
98	t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	29295	10.5969	10.5969
111	1,2,3-Trimethylbenzene	105	12.014	12.014	(1.002)	837877	9.58212	9.58212

QC Flag Legend

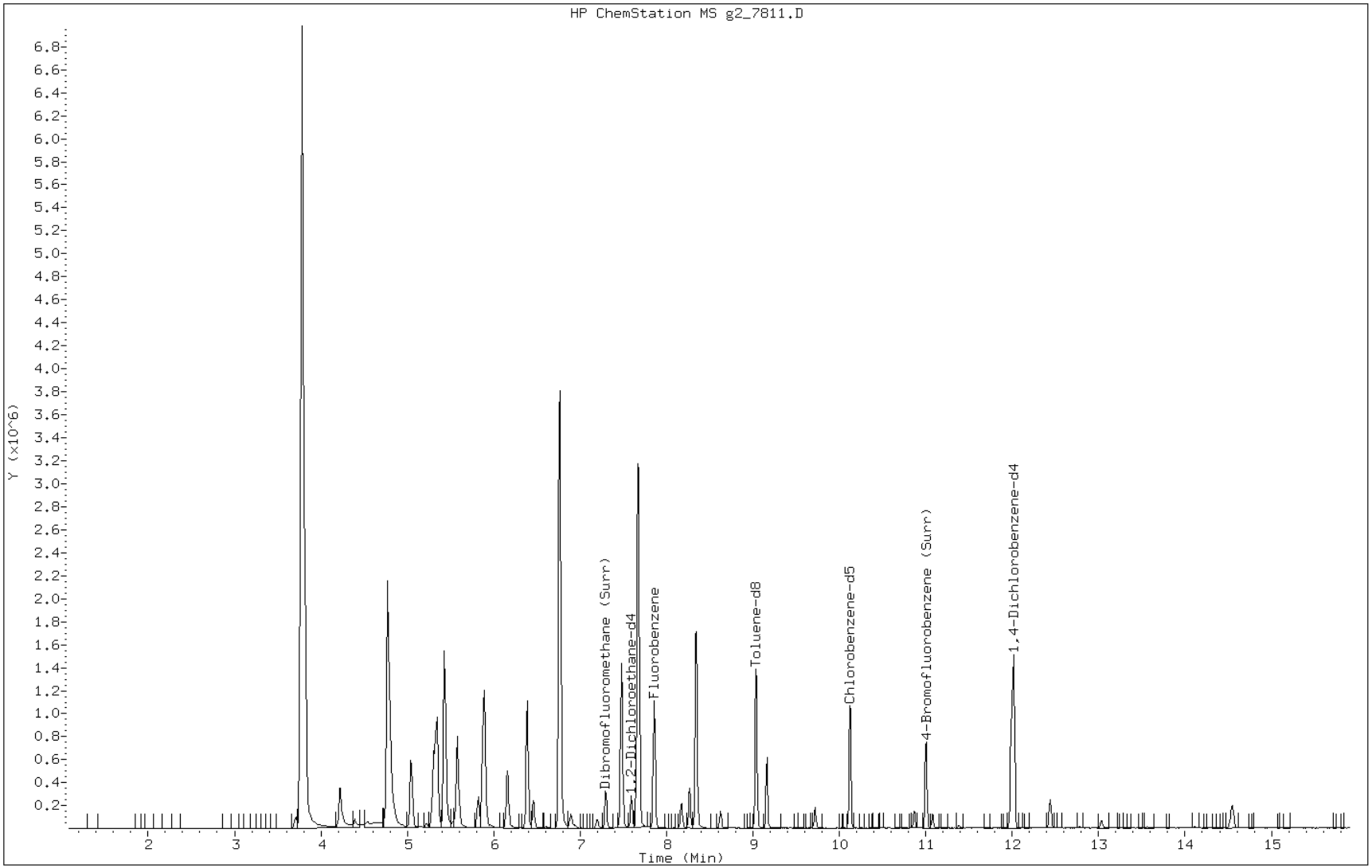
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7811.D

Date: 28-NOV-2010 16:02

Client ID: Instrument: GCMS2.i

Sample Info: ICV,,SA Operator: ILCZYSZD



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-43097/2 Calibration Date: 11/29/2010 17:45

Instrument ID: MSV_G2 Calib Start Date: 11/28/2010 10:28

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/28/2010 12:25

Lab File ID: g2_7817.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin1	0.0016	0.0016		160	200	-19.8	55.0
Chloroprene	Ave	0.6188	0.4867		7.86	10.0	-21.4	35.0
Propionitrile	Ave	0.0153	0.0142		92.6	100	-7.4	55.0
Methacrylonitrile	Ave	0.0731	0.0685		93.7	100	-6.3	55.0
Isobutyl alcohol	Ave	0.0035	0.0031		180	200	-10.1	55.0
1,4-Dioxane	Ave	0.0010	0.0009		196	200	-2.0	55.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112910p.b\g2_7817.D
Lab Smp Id: ICV
Inj Date : 29-NOV-2010 17:45
Operator : jacksonto Inst ID: GCMS2.i
Smp Info : ICV,,MB 5uL
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112910p.b\8260B-H2O.m
Meth Date : 29-Nov-2010 22:29 jacksonto Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: icvmb.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	7.859	7.859	(1.000)	1249645	10.0000	
* 85 Chlorobenzene-d5	119	10.119	10.119	(1.000)	236179	10.0000	
* 110 1,4-Dichlorobenzene-d4	152	11.985	11.992	(1.000)	308637	10.0000	(Q)
14 Ethanol	45	5.163	5.163	(0.657)	40198	160.476	160.476(a)
38 Chloroprene	53	6.601	6.601	(0.840)	608158	7.86435	7.86435
42 Propionitrile	54	6.951	6.944	(0.884)	177577	92.5876	92.5876
45 Methacrylonitrile	41	7.087	7.080	(0.902)	856158	93.7041	93.7041
50 Isobutanol	41	7.359	7.359	(0.936)	77809	179.890	179.890
66 1,4-Dioxane	88	8.374	8.374	(1.066)	23499	195.976	195.976(a)

QC Flag Legend

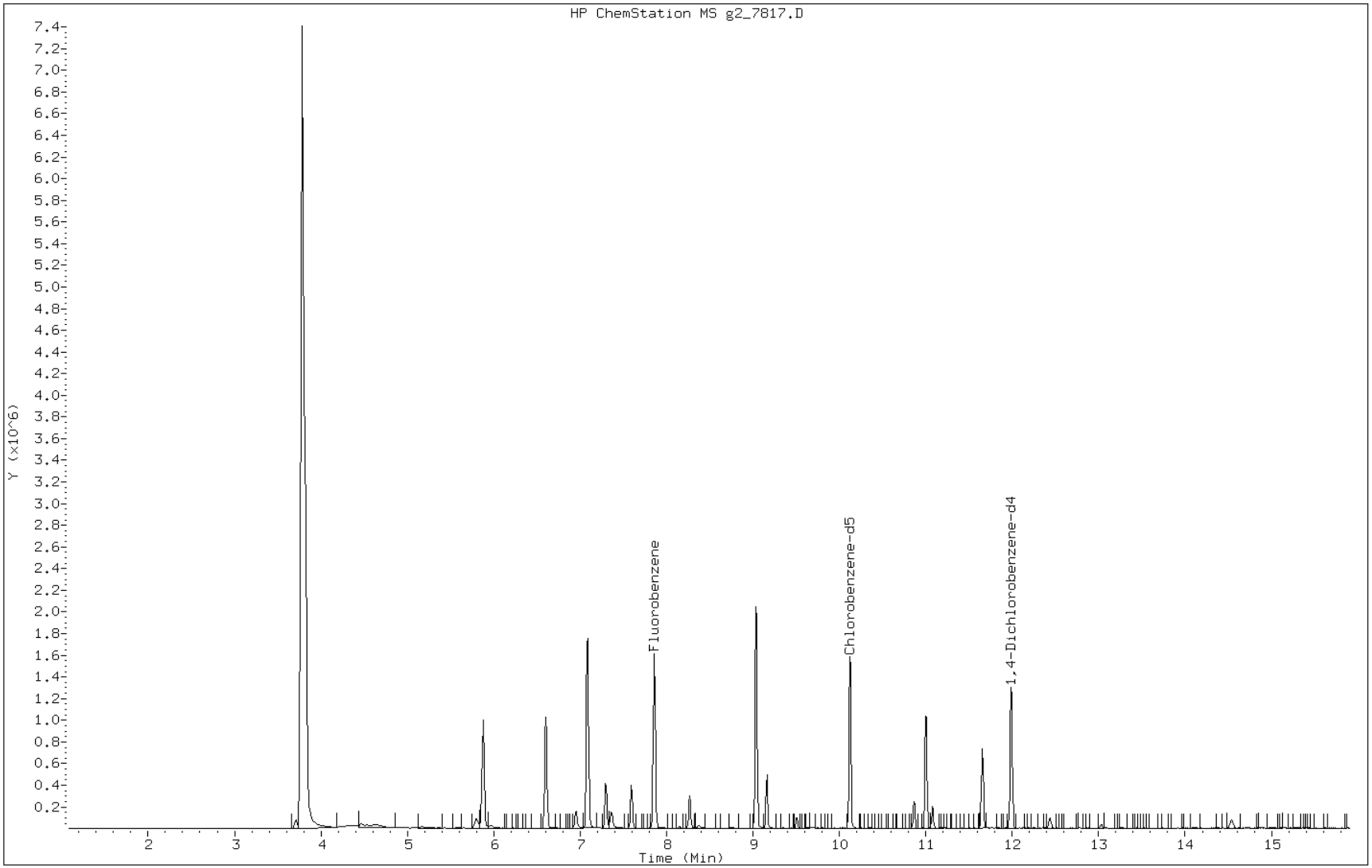
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7817.D

Date: 29-NOV-2010 17:45

Client ID: Instrument: GCMS2.i

Sample Info: ICV,,MB 5uL Operator: jacksonto



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: CCV 280-43492/2 Calibration Date: 12/01/2010 17:05

Instrument ID: MSV_G2 Calib Start Date: 11/28/2010 10:28

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/28/2010 12:25

Lab File ID: g2_7865.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.3011	0.2900		19.7	20.0	-3.7	35.0
Xylenes, Total	Ave	2.730	2.551		28.0	30.0	-6.6	35.0
Dichlorodifluoromethane	Ave	0.3757	0.3556		9.47	10.0	-5.3	50.0
Chloromethane	Ave	0.3891	0.3648	0.1000	9.38	10.0	-6.2	35.0
Vinyl chloride	Ave	0.4268	0.3754		8.80	10.0	-12.0	20.0
Bromomethane	Ave	0.2202	0.2057		9.34	10.0	-6.6	35.0
Chloroethane	Ave	0.2694	0.2509		9.31	10.0	-6.9	35.0
Ethanol	Lin1	0.0016	0.0015		517	500	3.4	50.0
Trichlorofluoromethane	Ave	0.4734	0.4557		9.62	10.0	-3.8	50.0
Acrolein	Ave	0.0173	0.0152		87.8	100	-12.2	50.0
Acetone	Lin1	0.0478	0.0368		48.4	40.0	20.9	50.0
1,1-Dichloroethene	Ave	0.2749	0.2812		10.2	10.0	2.3	20.0
Acetonitrile	Ave	0.0133	0.0147		110	100	10.2	50.0
Iodomethane	Ave	0.2869	0.3104		10.8	10.0	8.2	35.0
Tert-butyl alcohol (2-methyl-2-propanol)	Lin1	0.0087	0.0077		206	200	3.1	50.0
Methylene Chloride	Ave	0.2379	0.2511		10.6	10.0	5.5	35.0
Acrylonitrile	Ave	0.0398	0.0393		98.8	100	-1.2	50.0
trans-1,2-Dichloroethene	Ave	0.2888	0.2927		10.1	10.0	1.3	35.0
Isopropyl ether	Ave	0.2087	0.1970		47.2	50.0	-5.6	35.0
1,1-Dichloroethane	Ave	0.5914	0.5587	0.1000	9.45	10.0	-5.5	35.0
Chloroprene	Ave	0.6188	0.6249		10.1	10.0	1.0	35.0
2-Butanone (MEK)	Ave	0.0470	0.0418		35.6	40.0	-11.1	50.0
Propionitrile	Ave	0.0153	0.0141		92.1	100	-7.9	50.0
cis-1,2-Dichloroethene	Ave	0.3003	0.2873		9.57	10.0	-4.3	35.0
2,2-Dichloropropane	Ave	0.3209	0.3401		10.6	10.0	6.0	35.0
Methacrylonitrile	Ave	0.0731	0.0702		96.0	100	-4.0	50.0
Bromochloromethane	Ave	0.0892	0.0881		9.88	10.0	-1.2	35.0
Chloroform	Ave	0.4896	0.4583		9.36	10.0	-6.4	20.0
Isobutyl alcohol	Ave	0.0035	0.0037		215	200	7.6	50.0
1,1,1-Trichloroethane	Ave	0.4253	0.4246		9.98	10.0	-0.2	35.0
1,1-Dichloropropene	Ave	0.4637	0.4318		9.31	10.0	-6.9	35.0
Carbon tetrachloride	Ave	0.3416	0.3453		10.1	10.0	1.1	35.0
1,2-Dichloroethane	Ave	0.2786	0.2667		9.57	10.0	-4.3	35.0
Benzene	Ave	1.223	1.113		9.10	10.0	-9.0	35.0
n-Butanol	Lin1	0.0046	0.0030		245	300	-18.3	50.0
Trichloroethene	Ave	0.2649	0.2461		9.29	10.0	-7.1	35.0
1,2-Dichloropropane	Ave	0.2862	0.2394		8.37	10.0	-16.3	20.0
1,4-Dioxane	Ave	0.0010	0.0009		471	500	-5.8	50.0
Dibromomethane	Ave	0.0953	0.0877		9.19	10.0	-8.1	35.0
Bromodichloromethane	Ave	0.2998	0.2569		8.57	10.0	-14.3	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: CCV 280-43492/2 Calibration Date: 12/01/2010 17:05

Instrument ID: MSV_G2 Calib Start Date: 11/28/2010 10:28

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/28/2010 12:25

Lab File ID: g2_7865.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
cis-1,3-Dichloropropene	Ave	0.3706	0.3016		8.14	10.0	-18.6	35.0
4-Methyl-2-pentanone	Ave	0.1076	0.0996		37.0	40.0	-7.5	50.0
Toluene	Ave	1.213	1.047		8.63	10.0	-13.7	20.0
trans-1,3-Dichloropropene	Ave	0.2665	0.1982		7.44	10.0	-25.6	35.0
1,1,2-Trichloroethane	Ave	0.1254	0.1035		8.25	10.0	-17.5	35.0
2-Hexanone	Ave	0.3915	0.3386		34.6	40.0	-13.5	50.0
1,3-Dichloropropane	Ave	1.352	1.170		8.65	10.0	-13.5	35.0
Tetrachloroethene	Ave	0.9906	0.9808		9.90	10.0	-1.0	35.0
Dibromochloromethane	Ave	0.6886	0.6176		8.97	10.0	-10.3	35.0
1,2-Dibromoethane (EDB)	Ave	0.6038	0.5268		8.72	10.0	-12.8	35.0
1-Chlorohexane	Ave	2.198	1.943		8.82	9.98	-11.6	35.0
Chlorobenzene	Ave	3.484	3.099	0.3000	8.89	10.0	-11.1	35.0
1,1,1,2-Tetrachloroethane	Ave	1.039	1.017		9.79	10.0	-2.1	35.0
Ethylbenzene	Ave	2.226	2.044		9.18	10.0	-8.2	20.0
m-Xylene & p-Xylene	Ave	2.771	2.551		18.4	20.0	-8.0	35.0
o-Xylene	Ave	2.648	2.551		9.63	10.0	-3.7	35.0
Styrene	Ave	3.996	3.521		8.81	10.0	-11.9	35.0
Bromoform	Ave	0.3035	0.2743	0.1000	9.04	10.0	-9.6	35.0
Isopropylbenzene	Ave	4.832	4.496		9.31	10.0	-6.9	35.0
Cyclohexanone	Ave	0.0225	0.0232		412	400	3.0	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5411	0.4648	0.3000	8.59	10.0	-14.1	35.0
1,2,3-Trichloropropane	Ave	0.1332	0.1148		8.62	10.0	-13.8	35.0
Bromobenzene	Ave	0.8519	0.7425		8.72	10.0	-12.8	35.0
n-Propylbenzene	Ave	1.439	1.245		8.65	10.0	-13.5	35.0
1,3,5-Trimethylbenzene	Ave	4.267	3.931		9.21	10.0	-7.9	35.0
2-Chlorotoluene	Ave	1.092	0.9869		9.04	10.0	-9.6	35.0
4-Chlorotoluene	Ave	1.094	0.9262		8.47	10.0	-15.3	35.0
tert-Butylbenzene	Ave	4.142	3.770		9.10	10.0	-9.0	35.0
1,2,4-Trimethylbenzene	Ave	4.277	3.924		9.17	10.0	-8.3	35.0
sec-Butylbenzene	Ave	1.106	1.017		9.20	10.0	-8.0	35.0
4-Isopropyltoluene	Ave	4.685	4.410		9.41	10.0	-5.9	35.0
1,3-Dichlorobenzene	Ave	1.862	1.685		9.05	10.0	-9.5	35.0
1,4-Dichlorobenzene	Ave	1.811	1.634		9.02	10.0	-9.8	35.0
n-Butylbenzene	Ave	5.106	4.853		9.51	10.0	-4.9	35.0
1,2-Dichlorobenzene	Ave	1.548	1.457		9.42	10.0	-5.8	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0693	0.0610		8.80	10.0	-12.0	50.0
1,2,4-Trichlorobenzene	Ave	1.011	1.117		11.0	10.0	10.5	35.0
Hexachlorobutadiene	Ave	0.6678	0.7335		11.0	10.0	9.8	35.0
Naphthalene	Ave	1.621	1.699		10.5	10.0	4.8	35.0
1,2,3-Trichlorobenzene	Ave	0.7851	0.8854		11.3	10.0	12.8	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7865.D
Lab Smp Id: CCV
Inj Date : 01-DEC-2010 17:05
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : CCV,,M
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	829276	10.0000		
*	85 Chlorobenzene-d5	119	10.126	10.126	(1.000)	146589	10.0000		
*	110 1,4-Dichlorobenzene-d4	152	11.999	11.992	(1.000)	222543	10.0000		(Q)
M	1 1,2-Dichloroethene (total)	96				480984	20.0000	19.7020	
M	2 Xylene (total)	106				1121644	30.0000	28.0394	
M	3 1,3-Dichloropropene (total)	100				414483	20.0000	15.5766	
M	4 Trihalomethanes (total)	100				723787	40.0000	35.9360	
	5 dichlorodifluoromethane	85	4.059	4.059	(0.517)	294898	10.0000	9.46647	
	7 Chloromethane	50	4.297	4.297	(0.547)	302497	10.0000	9.37557	
	8 Vinyl Chloride	62	4.436	4.436	(0.565)	311310	10.0000	8.79636	
	10 Bromomethane	94	4.828	4.828	(0.614)	170544	10.0000	9.33786	
	11 Chloroethane	64	4.911	4.911	(0.625)	208036	10.0000	9.31116	
	13 Trichlorofluoromethane	101	5.163	5.163	(0.657)	377870	10.0000	9.62442	
	14 Ethanol	45	5.163	5.163	(0.657)	61900	500.000	516.930	
	19 Acrolein	56	5.470	5.470	(0.696)	125984	100.000	87.8222	
	20 Acetone	43	5.582	5.582	(0.710)	122067	40.0000	48.3681	
	23 1,1-Dichloroethene	96	5.624	5.624	(0.716)	233169	10.0000	10.2297	
	24 Iodomethane	142	5.791	5.791	(0.737)	257441	10.0000	10.8197	
	25 Acetonitrile	41	5.791	5.791	(0.737)	121753	100.000	110.236	
	29 tert-Butyl alcohol	59	5.917	5.917	(0.753)	127374	200.000	206.203	
	30 Methylene Chloride	84	5.973	5.973	(0.760)	208197	10.0000	10.5536	
	31 Acrylonitrile	53	6.122	6.122	(0.779)	326026	100.000	98.8296	
	33 trans-1,2-Dichloroethene	96	6.208	6.208	(0.790)	242711	10.0000	10.1329	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
36 Isopropyl ether	87	6.487	6.487	(0.825)	816848	50.0000	47.1952(Q)
37 1,1-Dichloroethane	63	6.529	6.529	(0.831)	463287	10.0000	9.44615
38 Chloroprene	53	6.601	6.601	(0.840)	518196	10.0000	10.0978
41 2-Butanone	43	6.901	6.901	(0.878)	138501	40.0000	35.5674
43 cis-1,2-Dichloroethene	96	6.966	6.966	(0.886)	238273	10.0000	9.56908
42 Propionitrile	54	6.951	6.951	(0.884)	117241	100.000	92.1156
44 2,2-Dichloropropane	77	6.994	6.994	(0.890)	282014	10.0000	10.5985
45 Methacrylonitrile	41	7.087	7.087	(0.902)	581861	100.000	95.9647
46 Bromochloromethane	128	7.159	7.159	(0.911)	73047	10.0000	9.88032
47 Chloroform	83	7.173	7.173	(0.913)	380049	10.0000	9.36107
51 1,1,1-Trichloroethane	97	7.402	7.402	(0.942)	352079	10.0000	9.98264
50 Isobutanol	41	7.359	7.359	(0.936)	61763	200.000	215.176
53 1,1-Dichloropropene	75	7.509	7.509	(0.955)	358054	10.0000	9.31118
54 Carbon Tetrachloride	117	7.545	7.545	(0.960)	286336	10.0000	10.1071
56 1,2-Dichloroethane	62	7.659	7.659	(0.975)	221182	10.0000	9.57434
58 Benzene	78	7.688	7.688	(0.978)	923255	10.0000	9.10398
60 n-Butanol	56	7.867	7.867	(1.001)	73434	300.000	244.993
61 Trichloroethene	130	8.153	8.153	(1.037)	204090	10.0000	9.29225
64 1,2-Dichloropropane	63	8.324	8.324	(1.059)	198545	10.0000	8.36540
66 1,4-Dioxane	88	8.374	8.374	(1.065)	37466	500.000	470.845
67 Dibromomethane	93	8.424	8.424	(1.072)	72692	10.0000	9.19497
68 Bromodichloromethane	83	8.496	8.496	(1.081)	213002	10.0000	8.56756
71 cis-1,3-Dichloropropene	75	8.810	8.810	(1.121)	250126	10.0000	8.13830
72 4-Methyl-2-pentanone	43	8.860	8.860	(1.127)	330380	40.0000	37.0110
74 Toluene	91	9.089	9.089	(1.156)	868193	10.0000	8.63016
76 trans-1,3-Dichloropropene	75	9.182	9.182	(1.168)	164357	10.0000	7.43828
77 1,1,2-Trichloroethane	97	9.339	9.339	(1.188)	85800	10.0000	8.25386
78 2-Hexanone	43	9.454	9.454	(0.934)	198511	40.0000	34.5914
79 1,3-Dichloropropane	76	9.475	9.475	(0.936)	171445	10.0000	8.65070
80 Tetrachloroethene	164	9.518	9.518	(0.940)	143767	10.0000	9.90014
81 Dibromochloromethane	129	9.676	9.676	(0.956)	90526	10.0000	8.96796
83 1,2-Dibromoethane	107	9.804	9.804	(0.968)	77217	10.0000	8.72361
84 1-Chlorohexane	91	10.040	10.040	(0.992)	284194	10.0000	8.81963
86 Chlorobenzene	112	10.155	10.155	(1.003)	454243	10.0000	8.89344
87 1,1,1,2-Tetrachloroethane	131	10.183	10.183	(1.006)	149095	10.0000	9.78850
88 Ethylbenzene	106	10.190	10.190	(1.006)	299592	10.0000	9.18176
89 m and p-Xylene	106	10.269	10.269	(1.014)	747754	20.0000	18.4070
91 o-Xylene	106	10.591	10.591	(1.046)	373890	10.0000	9.63243
90 Styrene	104	10.591	10.591	(1.046)	516122	10.0000	8.81133
92 Bromoform	173	10.791	10.791	(1.066)	40210	10.0000	9.03946
93 isopropyl benzene	105	10.855	10.855	(0.905)	1000658	10.0000	9.30584
95 Cyclohexanone	55	10.977	10.977	(1.084)	135892	400.000	411.813
97 1,1,2,2-Tetrachloroethane	83	11.056	11.056	(0.921)	103434	10.0000	8.58922
99 1,2,3-Trichloropropane	110	11.127	11.127	(0.927)	25547	10.0000	8.61994
101 Bromobenzene	156	11.184	11.184	(0.932)	165239	10.0000	8.71592
100 n-Propylbenzene	120	11.184	11.184	(0.932)	277092	10.0000	8.64973(Q)
103 2-Chlorotoluene	126	11.313	11.313	(0.943)	219634	10.0000	9.03993
102 1,3,5-Trimethylbenzene	105	11.292	11.292	(0.941)	874836	10.0000	9.21236
104 4-Chlorotoluene	126	11.384	11.384	(0.949)	206124	10.0000	8.46848
105 tert-Butylbenzene	119	11.599	11.599	(0.967)	839036	10.0000	9.10225
106 1,2,4-Trimethylbenzene	105	11.628	11.628	(0.969)	873243	10.0000	9.17420
107 sec-Butylbenzene	134	11.785	11.785	(0.982)	226348	10.0000	9.19974(Q)
108 4-Isopropyltoluene	119	11.878	11.878	(0.990)	981346	10.0000	9.41222
109 1,3-Dichlorobenzene	146	11.949	11.949	(0.996)	375037	10.0000	9.05296

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
112 1,4-dichlorobenzene	146	12.021	12.021	(1.002)	363570	10.0000	9.02118
113 n-Butylbenzene	91	12.257	12.257	(1.021)	1080051	10.0000	9.50510
114 1,2-Dichlorobenzene	146	12.393	12.393	(1.033)	324322	10.0000	9.41593
115 1,2-Dibromo-3-chloropropane	157	13.158	13.158	(1.097)	13570	10.0000	8.80025
116 1,2,4-Trichlorobenzene	180	14.159	14.159	(1.180)	248483	10.0000	11.0477
117 Hexachlorobutadiene	225	14.323	14.323	(1.194)	163229	10.0000	10.9839
118 Naphthalene	128	14.538	14.538	(1.212)	378115	10.0000	10.4833
119 1,2,3-Trichlorobenzene	180	14.874	14.874	(1.240)	197034	10.0000	11.2765

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: g2_7865.D

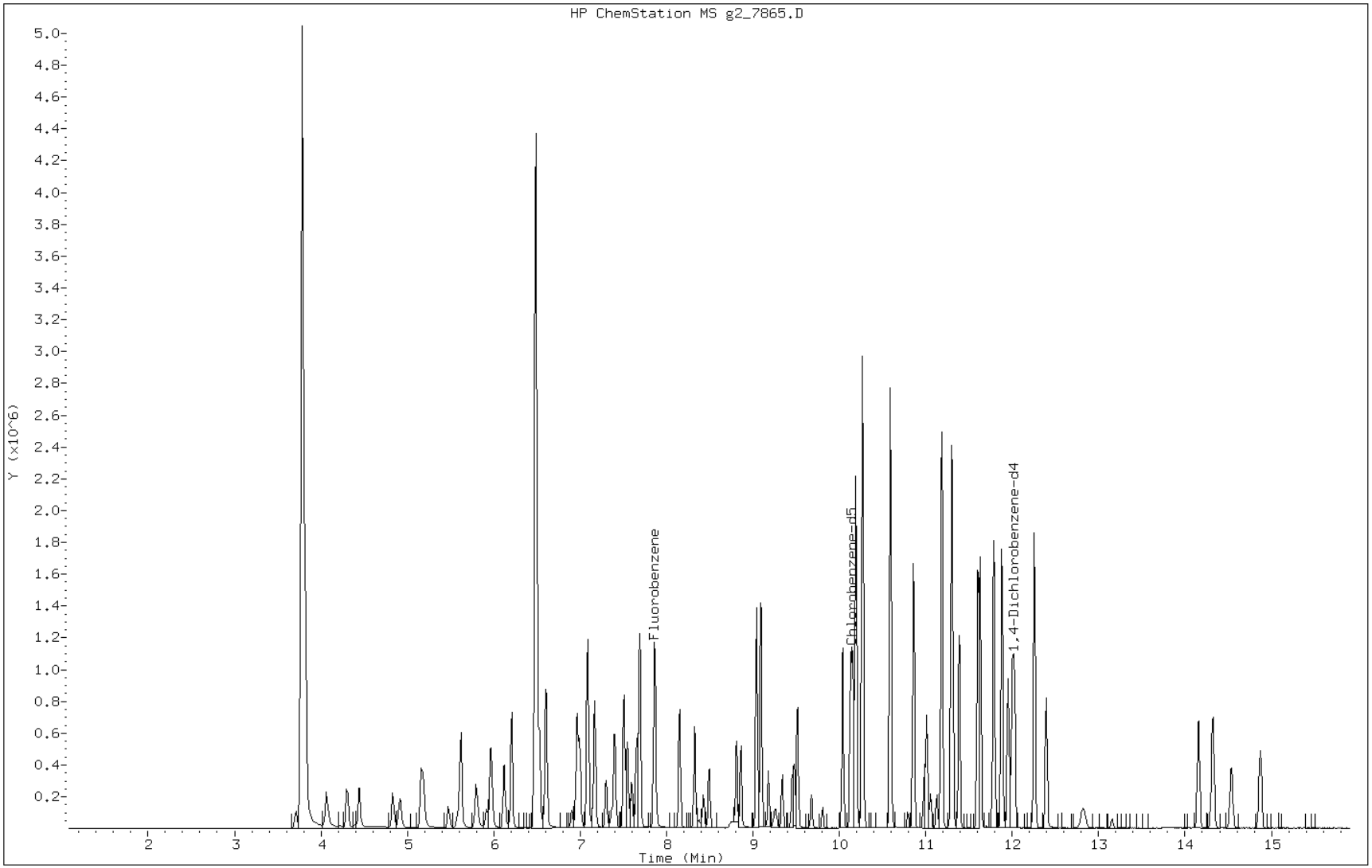
Date: 01-DEC-2010 17:05

Client ID:

Instrument: GCMS2.i

Sample Info: CCV,,M

Operator: ILCZYSZD



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: CCV 280-43492/3 Calibration Date: 12/01/2010 17:24

Instrument ID: MSV_G2 Calib Start Date: 11/28/2010 13:43

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/28/2010 15:42

Lab File ID: g2_7866.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.3749	0.2138		5.70	10.0	-43.0	50.0
Ethylene oxide	Ave	0.0099	0.0066		835	1250	-33.2	50.0
Dichlorofluoromethane	Ave	0.8238	0.5169		6.27	10.0	-37.3	50.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.3357	0.2280		6.79	10.0	-32.1	50.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.6198	0.4002		6.46	10.0	-35.4	50.0
Ethyl ether	Ave	0.1720	0.1353		7.87	10.0	-21.3	35.0
1,1,2-Trichlorotrifluoroethane	Ave	0.2890	0.1858		6.43	10.0	-35.7	50.0
2-Propanol	Ave	0.0084	0.0059		140	200	-29.9	50.0
Methyl acetate	Ave	0.0901	0.0756		42.0	50.0	-16.0	50.0
Allyl chloride	Ave	0.7207	0.4877		6.77	10.0	-32.3	35.0
Carbon disulfide	Ave	1.536	0.8451		5.50	10.0	-45.0	50.0
Methyl tert-butyl ether	Ave	0.6025	0.3948		6.55	10.0	-34.5	35.0
Hexane	Ave	3.035	2.577		8.49	10.0	-15.1	35.0
Vinyl acetate	Ave	0.1761	0.2530		28.7	20.0	43.7	50.0
Tert-butyl ethyl ether	Ave	0.7837	0.5656		36.1	50.0	-27.8	35.0
Ethyl acetate	Ave	0.0777	0.0935		24.1	20.0	20.3	50.0
Tetrahydrofuran	Ave	0.0328	0.0286		17.4	20.0	-12.9	50.0
Cyclohexane	Ave	0.8952	0.5965		6.66	10.0	-33.4	35.0
Tert-amyl methyl ether	Ave	0.5589	0.3984		35.6	50.0	-28.7	35.0
2-Pentanone	Ave	0.0562	0.0648		46.1	40.0	15.3	50.0
Methyl methacrylate	Lin	0.0209	0.0224		21.6	20.0	7.9	35.0
Methylcyclohexane	Ave	0.7172	0.4908		6.84	10.0	-31.6	35.0
2-Nitropropane	Ave	0.1208	0.1372		11.4	10.0	13.6	50.0
2-Chloroethyl vinyl ether	Lin	0.2097	0.1988		8.63	10.0	-13.7	50.0
Ethyl methacrylate	Lin1	0.8492	0.7958		19.1	20.0	-4.6	35.0
Tetrahydrothiophene	Ave	0.5010	0.4171		8.33	10.0	-16.7	50.0
cis-1,4-Dichloro-2-butene	Ave	0.1325	0.1217		9.18	10.0	-8.2	50.0
trans-1,4-Dichloro-2-butene	Lin1	0.1187	0.1132		8.98	10.0	-10.2	50.0
1,2,3-Trimethylbenzene	Ave	4.006	3.237		8.08	10.0	-19.2	35.0
Dibromofluoromethane (Surr)	Ave	0.2236	0.1920		8.59	10.0	-14.1	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2115	0.2143		10.1	10.0	1.3	35.0
Toluene-d8 (Surr)	Ave	4.848	4.839		9.98	10.0	-0.2	35.0
4-Bromofluorobenzene (Surr)	Ave	1.900	1.613		8.49	10.0	-15.1	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7866.D
Lab Smp Id: CCV
Inj Date : 01-DEC-2010 17:24
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : CCV,,S
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
* 59 Fluorobenzene	96	7.859	7.859	(1.000)	983494	10.0000		
* 85 Chlorobenzene-d5	119	10.126	10.126	(1.000)	184462	10.0000		
* 110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	263073	10.0000		(Q)
$ 49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	188815	10.0000	8.58586	
$ 55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	210763	10.0000	10.1320	
$ 73 Toluene-d8	98	9.039	9.039	(0.893)	892570	10.0000	9.98026	
$ 96 4-Bromofluorobenzene (Surr)	95	11.006	11.006	(1.087)	297524	10.0000	8.49116	
6 1,2-Dichlorotetrafluoroethane	85	4.227	4.227	(0.538)	210229	10.0000	5.70172	
9 Ethylene Oxide	43	4.772	4.772	(0.607)	811859	1250.00	835.034	
12 Dichlorofluoromethane	67	5.051	5.051	(0.643)	508318	10.0000	6.27382	
15 1,2-dichloro-1,1,2-trifluoroe	117	5.316	5.316	(0.676)	224229	10.0000	6.79152	
16 2,2-dichloro-1,1,1-trifluoroe	83	5.344	5.344	(0.680)	393606	10.0000	6.45688	
17 Ethyl Ether	59	5.344	5.344	(0.680)	133092	10.0000	7.86561	
18 Propylene Oxide	58	Compound Not Detected.						
21 Trichlorotrifluoroethane	151	5.582	5.582	(0.710)	182680	10.0000	6.42684	
22 2-propanol	45	5.596	5.596	(0.712)	116039	200.000	140.125	
26 Methyl Acetate	43	5.819	5.819	(0.740)	371934	50.0000	41.9925	
27 Allyl Chloride	41	5.875	5.875	(0.748)	479655	10.0000	6.76745	
28 Carbon Disulfide	76	5.903	5.903	(0.751)	831177	10.0000	5.50181	
32 Methyl t-butyl ether	73	6.158	6.158	(0.783)	388243	10.0000	6.55214	
34 Hexane	57	6.387	6.387	(0.631)	475407	10.0000	8.49178	
35 Vinyl acetate	43	6.465	6.465	(0.823)	497714	20.0000	28.7377	
39 ETBE	59	6.766	6.766	(0.861)	2781153	50.0000	36.0826	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
40	Ethyl Acetate	43	6.894	6.894	(0.877)	183902	20.0000	24.0670
48	Tetrahydrofuran	42	7.202	7.202	(0.916)	56245	20.0000	17.4185
52	Cyclohexane	56	7.481	7.481	(0.952)	586686	10.0000	6.66379
57	TAME	73	7.674	7.674	(0.976)	1959112	50.0000	35.6398
62	2-Pentanone	43	8.174	8.174	(1.040)	254882	40.0000	46.1072
65	Methyl Cyclohexane	55	8.346	8.346	(1.062)	482728	10.0000	6.84368
63	Methyl Methacrylate	100	8.267	8.267	(1.052)	44007	20.0000	21.5870
69	2-nitropropane	41	8.617	8.617	(0.851)	25313	10.0000	11.3638
70	2-Chloroethyl vinyl ether	63	8.625	8.625	(0.852)	36675	10.0000	8.62799
75	Ethyl methacrylate	69	9.161	9.161	(0.905)	293591	20.0000	19.0836
82	Tetrahydrothiophene	60	9.719	9.719	(0.960)	76931	10.0000	8.32501
94	cis-1,4-dichloro-2-butene	53	10.863	10.863	(0.906)	32002	10.0000	9.18080
98	t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	29778	10.0000	8.98201
111	1,2,3-Trimethylbenzene	105	12.021	12.021	(1.002)	851548	10.0000	8.08027

QC Flag Legend

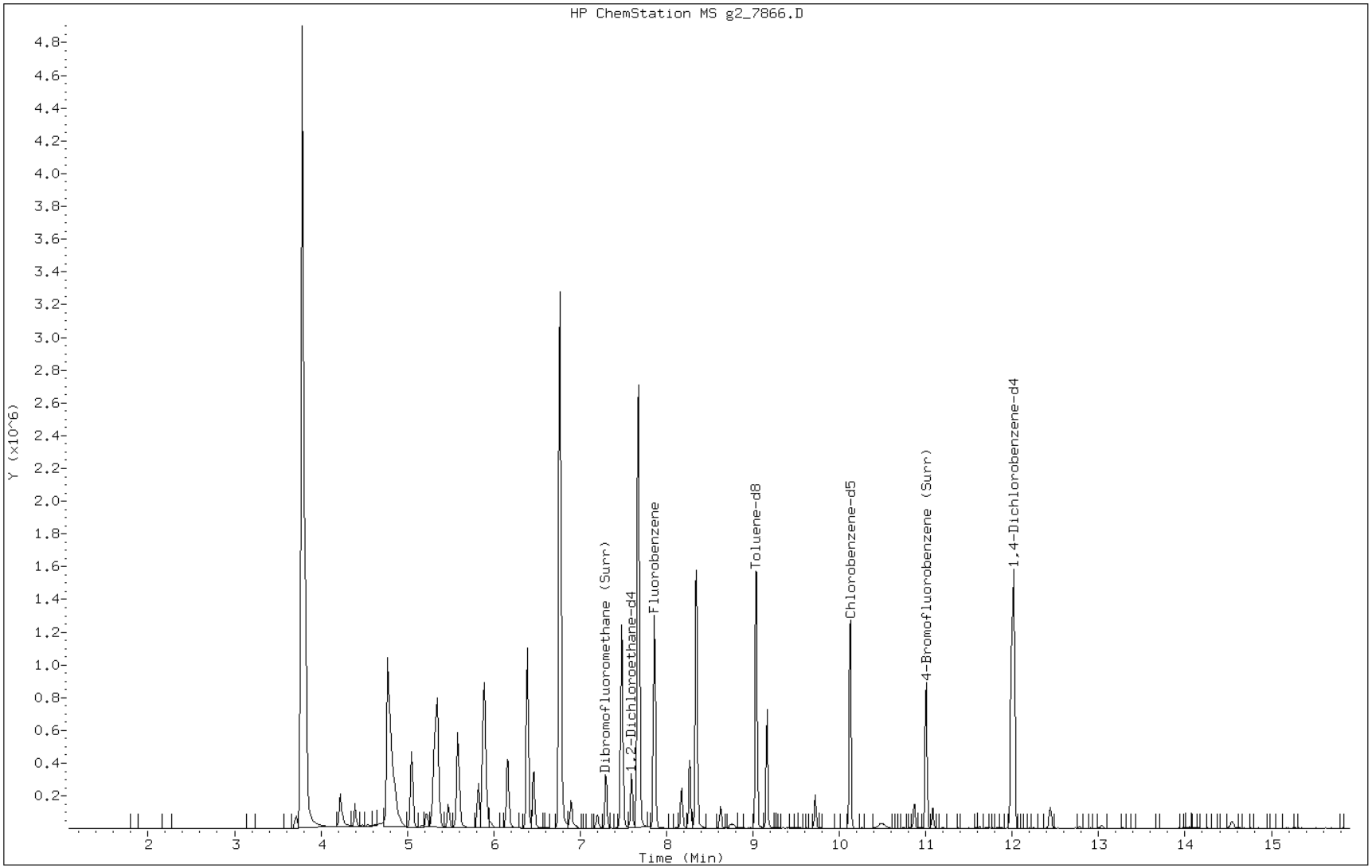
Q - Qualifier signal failed the ratio test.

Data File: g2_7866.D

Date: 01-DEC-2010 17:24

Client ID: Instrument: GCMS2.i

Sample Info: CCV,,S Operator: ILCZYSZD



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-40333/9 Calibration Date: 11/10/2010 20:45

Instrument ID: MSV_MS1 Calib Start Date: 11/10/2010 18:01

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/10/2010 20:04

Lab File ID: ms6306.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.3003	0.3864		12.9	10.0	28.7	50.0
Ethylene oxide	Ave	0.0054	0.0069		1590	1250	27.0	55.0
Dichlorofluoromethane	Ave	0.6472	0.7143		11.0	10.0	10.4	55.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.3447	0.3447		10.0	10.0	-0.0	55.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.5372	0.5507		10.3	10.0	2.5	55.0
Ethyl ether	Ave	0.1275	0.1431		11.2	10.0	12.3	35.0
Propene oxide	Lin2	0.0150	0.0100		613	1000	-38.7	
2-Propanol	Ave	0.0043	0.0048		223	200	11.5	55.0
1,1,2-Trichlorotrifluoroethane	Ave	0.3030	0.3258		10.8	10.0	7.5	55.0
Methyl acetate	Ave	0.0595	0.0630		52.9	50.0	5.8	55.0
Allyl chloride	Ave	0.5323	0.5748		10.8	10.0	8.0	35.0
Carbon disulfide	Ave	1.270	1.393		11.0	10.0	9.7	55.0
Methyl tert-butyl ether	Ave	0.3561	0.4048		11.4	10.0	13.7	35.0
Hexane	Ave	2.782	3.026		10.9	10.0	8.8	35.0
Vinyl acetate	Ave	0.2009	0.1874		18.7	20.0	-6.7	55.0
Tert-butyl ethyl ether	Ave	0.4899	0.6147		62.7	50.0	25.5	35.0
Ethyl acetate	Ave	0.0792	0.0854		21.6	20.0	7.8	55.0
Tetrahydrofuran	Ave	0.0220	0.0230		20.9	20.0	4.5	55.0
Cyclohexane	Ave	0.6554	0.7083		10.8	10.0	8.1	35.0
Tert-amyl methyl ether	Lin2	0.3538	0.4303		55.2	50.0	10.5	35.0
2-Pentanone	Ave	0.0522	0.0713		54.6	40.0	36.5	55.0
Methyl methacrylate	Lin2	0.0222	0.0254		20.5	20.0	2.4	35.0
Methylcyclohexane	Ave	0.5744	0.6098		10.6	10.0	6.2	35.0
2-Chloroethyl vinyl ether	Lin1	0.1362	0.1629		9.40	10.0	-6.0	55.0
2-Nitropropane	Ave	0.0958	0.1000		10.4	10.0	4.4	55.0
Ethyl methacrylate	Lin1	0.6403	0.7367		19.5	20.0	-2.6	35.0
Tetrahydrothiophene	Lin1	0.3102	0.3207		8.65	10.0	-13.5	55.0
cis-1,4-Dichloro-2-butene	Lin1	0.1081	0.1011		8.28	10.0	-17.2	55.0
trans-1,4-Dichloro-2-butene	Lin1	0.1010	0.1031		9.08	10.0	-9.2	55.0
1,2,3-Trimethylbenzene	Ave	4.131	4.552		11.0	10.0	10.2	35.0
Dibromofluoromethane (Surr)	Ave	0.2440	0.2282		11.2	12.0	-6.5	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2339	0.2134		10.9	12.0	-8.8	35.0
Toluene-d8 (Surr)	Ave	5.715	5.809		12.2	12.0	1.6	35.0
4-Bromofluorobenzene (Surr)	Ave	1.341	1.256		11.2	12.0	-6.3	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\ms6306.D
Lab Smp Id: ICV
Inj Date : 10-NOV-2010 20:45
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : ICV,,S
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\8260B-H2OAFC.m
Meth Date : 10-Nov-2010 21:27 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVSA.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 60 Fluorobenzene	96	8.354	8.367	(1.000)	2079790	12.5000		
* 85 Chlorobenzene-d5	119	10.602	10.616	(1.000)	418446	12.5000		
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	545144	12.5000		(Q)
$ 49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	455533	11.2202	11.2202	
$ 55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	426012	10.9489	10.9489	
$ 73 Toluene-d8	98	9.499	9.499	(0.896)	2333545	12.1966	12.1966	
$ 96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	657286	11.2421	11.2421	
6 1,2-Dichlorotetrafluoroethane	85	4.722	4.722	(0.565)	642849	12.8675	12.8675	
9 Ethylene Oxide	43	5.295	5.281	(0.634)	1429250	1588.00	1588.00	
12 Dichlorofluoromethane	67	5.560	5.560	(0.666)	1188436	11.0362	11.0362	
15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.811	(0.697)	573434	9.99919	9.99919	
17 Ethyl Ether	59	5.868	5.867	(0.702)	238085	11.2253	11.2253	
16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.853	(0.701)	916294	10.2523	10.2523	
19 Propylene Oxide	58	5.951	5.951	(0.712)	1668666	613.363	613.363	
20 Trichlorotrifluoroethane	151	6.119	6.119	(0.733)	542031	10.7533	10.7533	
21 2-propanol	45	6.105	6.105	(0.731)	160177	222.985	222.985	
26 Methyl Acetate	43	6.342	6.342	(0.759)	523788	52.8843	52.8843	
27 Allyl Chloride	41	6.398	6.398	(0.766)	956308	10.7974	10.7974	
28 Carbon Disulfide	76	6.440	6.426	(0.771)	2317991	10.9697	10.9697	
32 Methyl t-butyl ether	73	6.678	6.677	(0.799)	673488	11.3678	11.3678	
34 Hexane	57	6.901	6.901	(0.651)	1013021	10.8795	10.8795	
35 Vinyl acetate	43	6.971	6.971	(0.834)	623697	18.6616	18.6616	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
39	ETBE	59	7.278	7.278	(0.871)	5113946	62.7416	62.7416
40	Ethyl Acetate	43	7.404	7.404	(0.886)	284010	21.5554	21.5554
48	Tetrahydrofuran	42	7.725	7.725	(0.925)	76652	20.9058	20.9058
52	Cyclohexane	56	8.004	8.004	(0.958)	1178564	10.8078	10.8078
56	TAME	73	8.172	8.172	(0.978)	3579460	55.2359	55.2359
62	2-Pentanone	43	8.647	8.647	(1.035)	474775	54.6154	54.6154
65	Methyl Cyclohexane	55	8.828	8.828	(1.057)	1014574	10.6160	10.6160
63	Methyl Methacrylate	100	8.745	8.744	(1.047)	84445	20.4828	20.4828
69	2-nitropropane	41	9.080	9.080	(0.856)	33458	10.4358	10.4358
70	2-Chloroethyl vinyl ether	63	9.080	9.080	(0.856)	54542	9.40032	9.40032
75	Ethyl methacrylate	69	9.611	9.610	(0.906)	493213	19.4754	19.4754
82	Tetrahydrothiophene	60	10.197	10.197	(0.962)	107371	8.64562	8.64562
94	cis-1,4-dichloro-2-butene	53	11.356	11.356	(0.905)	44077	8.27701	8.27701
98	t-1,4-Dichloro-2-butene	53	11.580	11.580	(0.923)	44961	9.08500	9.08500
112	1,2,3-Trimethylbenzene	105	12.571	12.571	(1.002)	1985341	11.0207	11.0207

QC Flag Legend

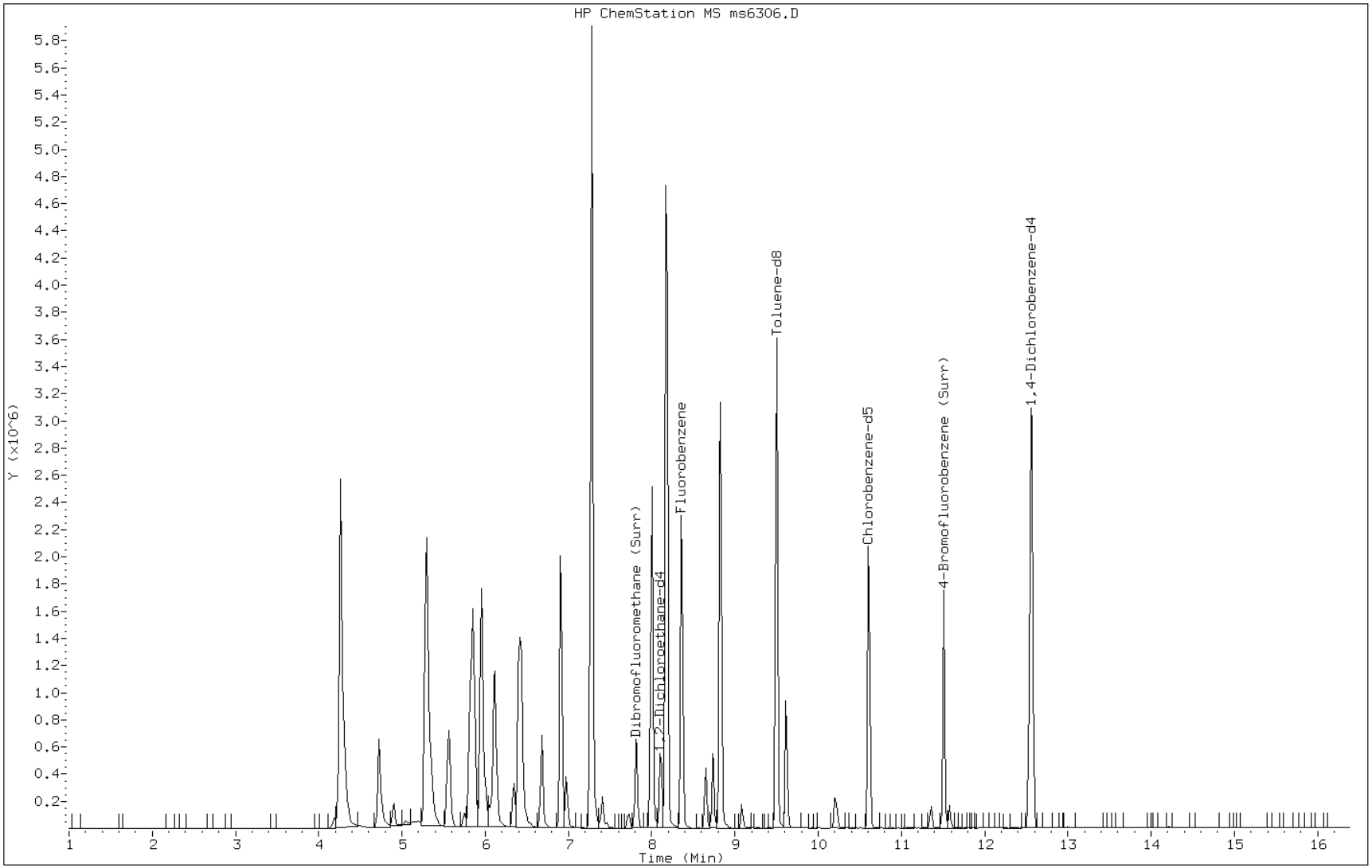
Q - Qualifier signal failed the ratio test.

Data File: ms6306.D

Date: 10-NOV-2010 20:45

Client ID: Instrument: GCMS1.i

Sample Info: ICV,,S Operator: RYERSONJ



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-40764/9 Calibration Date: 11/12/2010 22:07

Instrument ID: MSV_MS1 Calib Start Date: 11/12/2010 19:43

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/12/2010 21:46

Lab File ID: ms6441.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0008	0.0010		254	200	26.8	55.0
Acrylonitrile	Ave	0.0253	0.0290		114	100	14.3	55.0
Chloroprene	Ave	0.5796	0.5675		9.79	10.0	-2.1	35.0
Propionitrile	Ave	0.0099	0.0111		112	100	12.0	55.0
Methacrylonitrile	Ave	0.0556	0.0605		109	100	8.9	55.0
Isobutyl alcohol	Ave	0.0026	0.0026		198	200	-1.1	55.0
1,4-Dioxane	Ave	0.0006	0.0007		235	200	17.6	55.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6441.D
Lab Smp Id: ICV
Inj Date : 12-NOV-2010 22:07
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : ICV,,MB
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\8260B-H2OAFC.m
Meth Date : 12-Nov-2010 22:40 ryersonj Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVMB.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 60 Fluorobenzene	96	8.353	8.353	(1.000)	2502712	12.5000		
* 85 Chlorobenzene-d5	119	10.602	10.602	(1.000)	500488	12.5000		
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	643883	12.5000		(Q)
13 Ethanol	45	5.686	5.686	(0.681)	39145	253.506	253.506	
31 Acrylonitrile	53	6.636	6.635	(0.794)	579544	114.348	114.348	
38 Chloroprene	53	7.124	7.124	(0.853)	1136284	9.79194	9.79194	
42 Propionitrile	54	7.460	7.459	(0.893)	222191	111.960	111.960	
45 Methacrylonitrile	41	7.599	7.599	(0.910)	1211892	108.864	108.864	
50 Isobutanol	41	7.865	7.865	(0.941)	104599	197.880	197.880	
66 1,4-Dioxane	88	8.856	8.842	(1.060)	28384	235.238	235.238	

QC Flag Legend

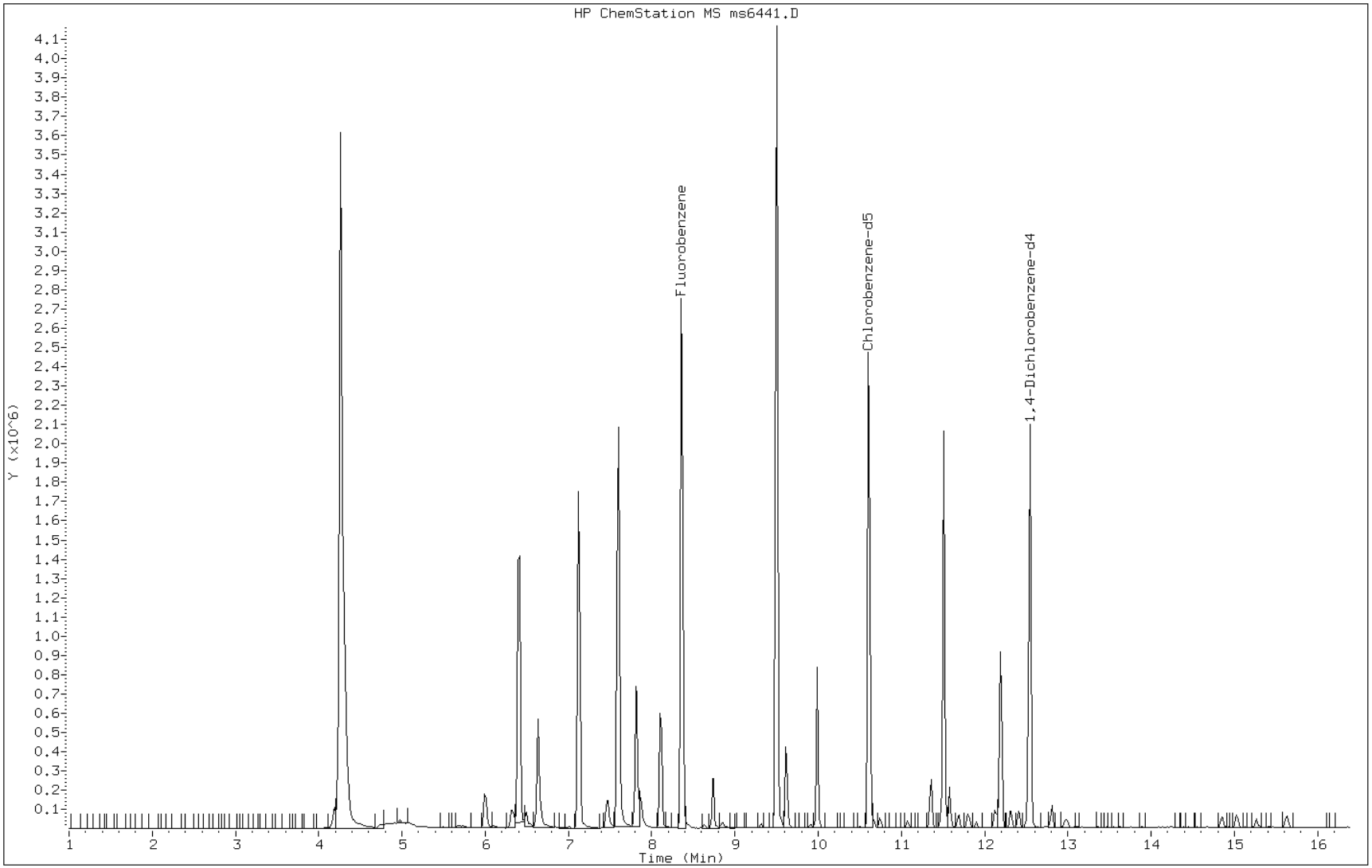
Q - Qualifier signal failed the ratio test.

Data File: ms6441.D

Date: 12-NOV-2010 22:07

Client ID: Instrument: GCMS1.i

Sample Info: ICV,,MB Operator: RYERSONJ



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-40764/10 Calibration Date: 11/12/2010 22:27

Instrument ID: MSV_MS1 Calib Start Date: 11/12/2010 19:43

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/12/2010 21:46

Lab File ID: ms6442.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.2958	0.2749		18.6	20.0	-7.1	35.0
Xylenes, Total	Ave	2.609	2.326		26.8	30.0	-10.9	35.0
Acrolein	Ave	0.0114	0.0115		101	100	1.1	55.0
1,1-Dichloroethene	Ave	0.2552	0.2371		9.29	10.0	-7.1	35.0
Methylene Chloride	Lin2	0.2890	0.2373		9.50	10.0	-5.0	35.0
trans-1,2-Dichloroethene	Ave	0.3041	0.2838		9.33	10.0	-6.7	35.0
1,1-Dichloroethane	Ave	0.5749	0.5164	0.1000	8.98	10.0	-10.2	35.0
cis-1,2-Dichloroethene	Ave	0.2875	0.2659		9.25	10.0	-7.5	35.0
2,2-Dichloropropane	Ave	0.4149	0.3656		8.81	10.0	-11.9	35.0
Bromochloromethane	Ave	0.0885	0.0833		9.42	10.0	-5.8	35.0
1,1,1-Trichloroethane	Ave	0.5213	0.4485		8.61	10.0	-13.9	35.0
1,1-Dichloropropene	Ave	0.4759	0.4329		9.10	10.0	-9.0	35.0
Carbon tetrachloride	Ave	0.4573	0.3873		8.47	10.0	-15.3	35.0
1,2-Dichloroethane	Ave	0.2748	0.2337		8.50	10.0	-15.0	35.0
Benzene	Ave	1.216	1.103		9.07	10.0	-9.3	35.0
Trichloroethene	Ave	0.3293	0.3052		9.27	10.0	-7.3	35.0
1,2-Dichloropropane	Ave	0.2503	0.2345		9.37	10.0	-6.3	35.0
Dibromomethane	Ave	0.0829	0.0739		8.90	10.0	-11.0	35.0
cis-1,3-Dichloropropene	Ave	1.476	1.394		9.44	10.0	-5.6	35.0
Toluene	Ave	1.331	1.203		9.04	10.0	-9.6	35.0
trans-1,3-Dichloropropene	Ave	0.2128	0.2021		9.50	10.0	-5.0	35.0
1,1,2-Trichloroethane	Ave	0.1135	0.1083		9.54	10.0	-4.6	35.0
1,3-Dichloropropane	Ave	1.129	1.008		8.93	10.0	-10.7	35.0
Tetrachloroethene	Ave	1.375	1.205		8.76	10.0	-12.4	35.0
1,2-Dibromoethane (EDB)	Ave	0.4622	0.4455		9.64	10.0	-3.6	35.0
1-Chlorohexane	Ave	2.098	2.002		9.54	10.0	-4.6	35.0
Chlorobenzene	Ave	3.699	3.245	0.3000	8.77	10.0	-12.3	35.0
1,1,1,2-Tetrachloroethane	Ave	1.112	1.002		9.01	10.0	-9.9	35.0
Ethylbenzene	Ave	2.204	1.933		8.77	10.0	-12.3	35.0
m-Xylene & p-Xylene	Ave	2.710	2.388		17.6	20.0	-11.9	35.0
o-Xylene	Ave	2.408	2.202		9.14	10.0	-8.6	35.0
Styrene	Lin2	3.050	2.816		8.51	10.0	-14.9	35.0
Isopropylbenzene	Ave	5.148	5.114		9.93	10.0	-0.7	35.0
1,1,2,2-Tetrachloroethane	Ave	0.4305	0.3974	0.3000	9.23	10.0	-7.7	35.0
1,2,3-Trichloropropane	Ave	0.1168	0.1023		8.76	10.0	-12.4	35.0
Bromobenzene	Ave	0.9551	0.8766		9.18	10.0	-8.2	35.0
n-Propylbenzene	Ave	1.497	1.336		8.93	10.0	-10.7	35.0
1,3,5-Trimethylbenzene	Ave	4.356	4.055		9.31	10.0	-6.9	35.0
2-Chlorotoluene	Ave	1.218	1.091		8.96	10.0	-10.4	35.0
4-Chlorotoluene	Ave	1.151	1.064		9.25	10.0	-7.5	35.0
tert-Butylbenzene	Ave	4.443	4.134		9.30	10.0	-7.0	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-40764/10 Calibration Date: 11/12/2010 22:27

Instrument ID: MSV_MS1 Calib Start Date: 11/12/2010 19:43

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/12/2010 21:46

Lab File ID: ms6442.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trimethylbenzene	Ave	4.294	3.934		9.16	10.0	-8.4	35.0
sec-Butylbenzene	Ave	1.211	1.125		9.29	10.0	-7.1	35.0
4-Isopropyltoluene	Ave	4.856	4.436		9.14	10.0	-8.6	35.0
1,3-Dichlorobenzene	Ave	2.036	1.873		9.20	10.0	-8.0	35.0
1,4-Dichlorobenzene	Ave	1.999	1.800		9.01	10.0	-9.9	35.0
n-Butylbenzene	Ave	4.582	4.140		9.04	10.0	-9.6	35.0
1,2-Dichlorobenzene	Ave	1.587	1.479		9.32	10.0	-6.8	35.0
1,2-Dibromo-3-Chloropropane	Lin2	0.0481	0.0434		8.66	10.0	-13.4	55.0
1,2,4-Trichlorobenzene	Ave	0.9901	0.9505		9.60	10.0	-4.0	35.0
Hexachlorobutadiene	Ave	0.998	0.8907		8.92	10.0	-10.8	35.0
Naphthalene	Lin1	0.9547	0.8962		8.26	10.0	-17.4	35.0
1,2,3-Trichlorobenzene	Ave	0.7556	0.7399		9.79	10.0	-2.1	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6442.D
Lab Smp Id: ICV
Inj Date : 12-NOV-2010 22:27
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : ICV,,MA
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\8260B-H2OAFC.m
Meth Date : 15-Nov-2010 17:16 ryersonj Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVMA-g-BrForm.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60 Fluorobenzene	96	8.353	8.353	(1.000)	2482396	12.5000	
* 85 Chlorobenzene-d5	119	10.602	10.602	(1.000)	518742	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	672147	12.5000	
M 1 1,2-Dichloroethene (total)	96				1091700	18.5833	18.5833
M 2 Xylene (total)	106				2895446	26.7654	26.7654
M 4 1,3-Dichloropropene (total)	100				979633	18.9375	18.9375
18 Acrolein	56	5.993	5.993	(0.717)	228995	101.111	101.111
22 Acetone	43	6.105	6.091	(0.731)	206438	32.8572	32.8572
23 1,1-Dichloroethene	96	6.147	6.147	(0.736)	470945	9.29076	9.29076
30 Methylene Chloride	84	6.496	6.496	(0.778)	471307	9.50406	9.50406
33 trans-1,2-Dichloroethene	96	6.733	6.733	(0.806)	563663	9.33412	9.33412
37 1,1-Dichloroethane	63	7.054	7.040	(0.845)	1025536	8.98176	8.98176
43 cis-1,2-Dichloroethene	96	7.487	7.487	(0.896)	528037	9.24920	9.24920
41 2-Butanone	43	7.418	7.418	(0.888)	262970	35.4920	35.4920
44 2,2-Dichloropropane	77	7.515	7.515	(0.900)	726140	8.81244	8.81244
46 Bromochloromethane	128	7.683	7.683	(0.920)	165513	9.42112	9.42112
51 1,1,1-Trichloroethane	97	7.920	7.920	(0.948)	890766	8.60507	8.60507
53 1,1-Dichloropropene	75	8.018	8.018	(0.960)	859617	9.09619	9.09619
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	769148	8.46887	8.46887
58 Benzene	78	8.200	8.200	(0.982)	2190558	9.07012	9.07012
57 1,2-Dichloroethane	62	8.158	8.158	(0.977)	464070	8.50382	8.50382
61 Trichloroethene	130	8.633	8.633	(1.033)	606168	9.26922	9.26922

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
64	1,2-Dichloropropane	63	8.800	8.800	(1.053)	465689	9.36913	9.36913
67	Dibromomethane	93	8.898	8.898	(1.065)	146651	8.90297	8.90297
71	cis-1,3-Dichloropropene	75	9.261	9.261	(0.874)	578309	9.43942	9.43942
72	4-Methyl-2-pentanone	43	9.317	9.303	(0.879)	685014	40.1297	40.1297
74	Toluene	91	9.554	9.554	(1.144)	2389277	9.03635	9.03634
76	trans-1,3-Dichloropropene	75	9.638	9.638	(1.154)	401324	9.49807	9.49807
77	1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	215159	9.54316	9.54316
79	1,3-Dichloropropane	76	9.945	9.945	(0.938)	418371	8.92968	8.92968
80	Tetrachloroethene	164	9.987	9.987	(0.942)	499942	8.75912	8.75912
78	2-Hexanone	43	9.904	9.904	(1.186)	432004	36.3371	36.3371
83	1,2-Dibromoethane	107	10.281	10.281	(0.970)	184895	9.63870	9.63870
84	1-Chlorohexane	91	10.504	10.504	(0.991)	830664	9.54244	9.54244
86	Chlorobenzene	112	10.630	10.630	(1.003)	1346727	8.77240	8.77240
88	1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.007)	415857	9.01170	9.01170
87	Ethylbenzene	106	10.672	10.672	(1.007)	802228	8.76944	8.76944
89	m and p-Xylene	106	10.742	10.742	(1.013)	1981803	17.6210	17.6210
90	o-Xylene	106	11.077	11.077	(1.045)	913643	9.14442	9.14442
91	Styrene	104	11.077	11.077	(1.045)	1168689	8.50639	8.50639
93	isopropyl benzene	105	11.342	11.342	(0.904)	2749652	9.93385	9.93385
95	Cyclohexanone	55	11.482	11.482	(1.083)	128230	167.384	167.384
97	1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	213705	9.23185	9.23185
101	Bromobenzene	156	11.691	11.691	(0.932)	471364	9.17848	9.17848
99	1,2,3-Trichloropropane	110	11.621	11.621	(0.926)	55006	8.76103	8.76103
100	n-Propylbenzene	120	11.691	11.691	(0.932)	718573	8.92531	8.92530(Q)
102	1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	2180455	9.30935	9.30935
103	2-Chlorotoluene	126	11.817	11.817	(0.942)	586777	8.95569	8.95569
104	4-Chlorotoluene	126	11.901	11.901	(0.949)	572229	9.24895	9.24895
105	tert-Butylbenzene	119	12.124	12.124	(0.967)	2222973	9.30410	9.30410
106	1,2,4-Trimethylbenzene	105	12.152	12.152	(0.969)	2115366	9.16245	9.16245
107	sec-Butylbenzene	134	12.320	12.320	(0.982)	604818	9.28934	9.28934(Q)
108	4-Isopropyltoluene	119	12.404	12.404	(0.989)	2385556	9.13611	9.13611
109	1,3-Dichlorobenzene	146	12.501	12.501	(0.997)	1007376	9.20239	9.20239
111	1,4-dichlorobenzene	146	12.571	12.571	(1.002)	968007	9.00511	9.00511
113	n-Butylbenzene	91	12.809	12.809	(1.021)	2226367	9.03696	9.03696
114	1,2-Dichlorobenzene	146	12.962	12.962	(1.033)	795278	9.31751	9.31751
115	1,2-Dibromo-3-chloropropane	157	13.772	13.773	(1.098)	23349	8.66088	8.66088
117	1,2,4-Trichlorobenzene	180	14.862	14.848	(1.185)	511110	9.60049	9.60049
118	Hexachlorobutadiene	225	15.029	15.029	(1.198)	478929	8.92046	8.92046
119	Naphthalene	128	15.267	15.267	(1.217)	481894	8.26055	8.26054
120	1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	397869	9.79304	9.79304

QC Flag Legend

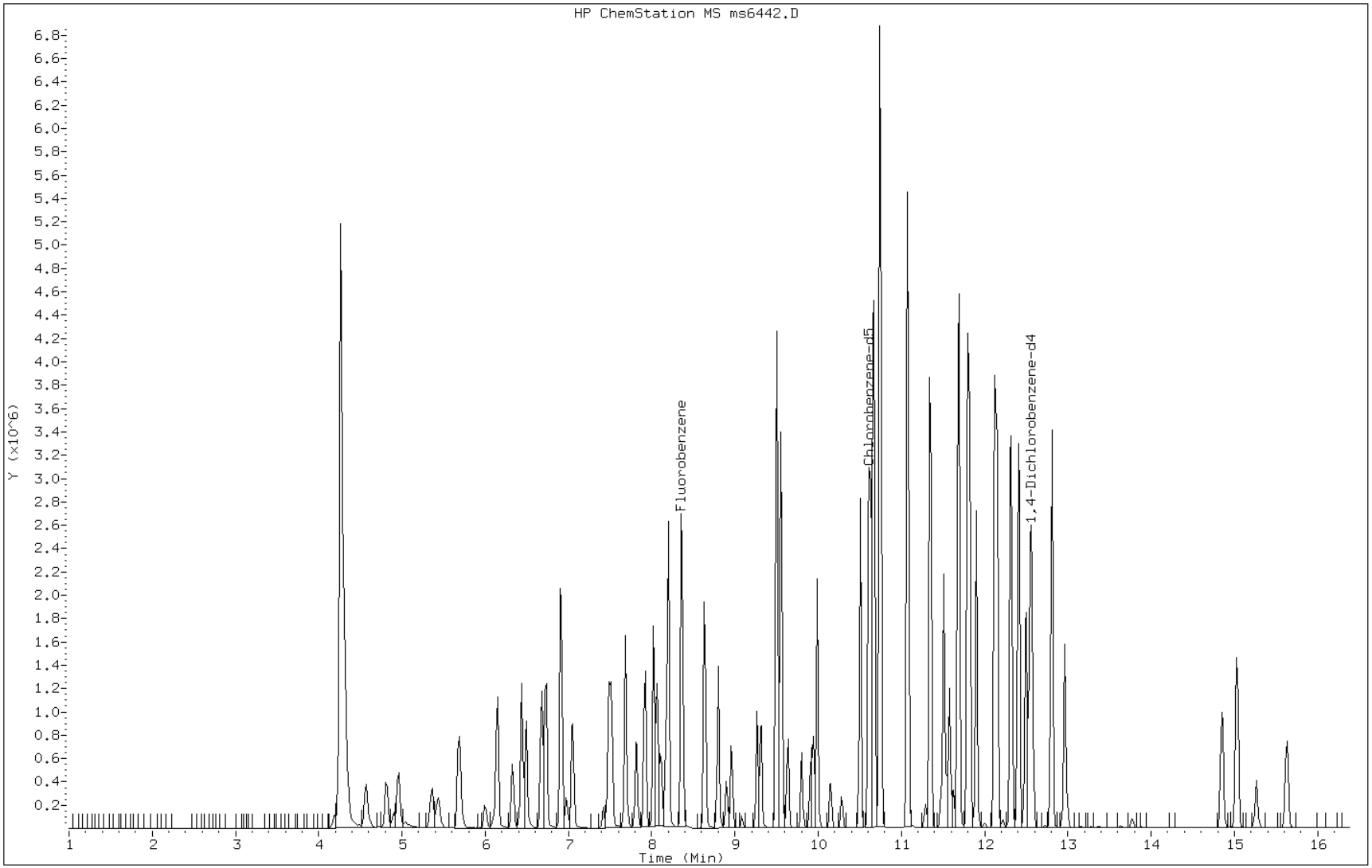
Q - Qualifier signal failed the ratio test.

Data File: ms6442.D

Date: 12-NOV-2010 22:27

Client ID: Instrument: GCMS1.i

Sample Info: ICV,,MA Operator: RYERSONJ



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-40764/11 Calibration Date: 11/12/2010 22:47

Instrument ID: MSV_MS1 Calib Start Date: 11/12/2010 19:43

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/12/2010 21:46

Lab File ID: ms6443.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetonitrile	Ave	0.0088	0.0088		49.8	50.0	-0.3	55.0
Tert-butyl alcohol (2-methyl-2-propanol)	Ave	0.0052	0.0090		434	250	73.6*	55.0
Isopropyl ether	Ave	0.1737	0.2026		58.3	50.0	16.6	35.0
n-Butanol	Lin2	0.0024	0.0020		269	300	-10.3	55.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6443.D
Lab Smp Id: ICV
Inj Date : 12-NOV-2010 22:47
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : ICV,,MC
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\8260B-H2OAFC.m
Meth Date : 13-Nov-2010 02:01 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVMC.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60 Fluorobenzene	96	8.354	8.353	(1.000)	2535772	12.5000	
* 85 Chlorobenzene-d5	119	10.602	10.602	(1.000)	497194	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	613420	12.5000	(Q)
25 Acetonitrile	41	6.314	6.314	(0.756)	89196	49.8478	49.8478
29 tert-Butyl alcohol	59	6.440	6.440	(0.771)	454590	434.048	434.048
36 Isopropyl ether	87	6.999	6.999	(0.838)	2054466	58.3063	58.3063(Q)
59 n-Butanol	56	8.354	8.353	(1.000)	120858	269.243	269.243

QC Flag Legend

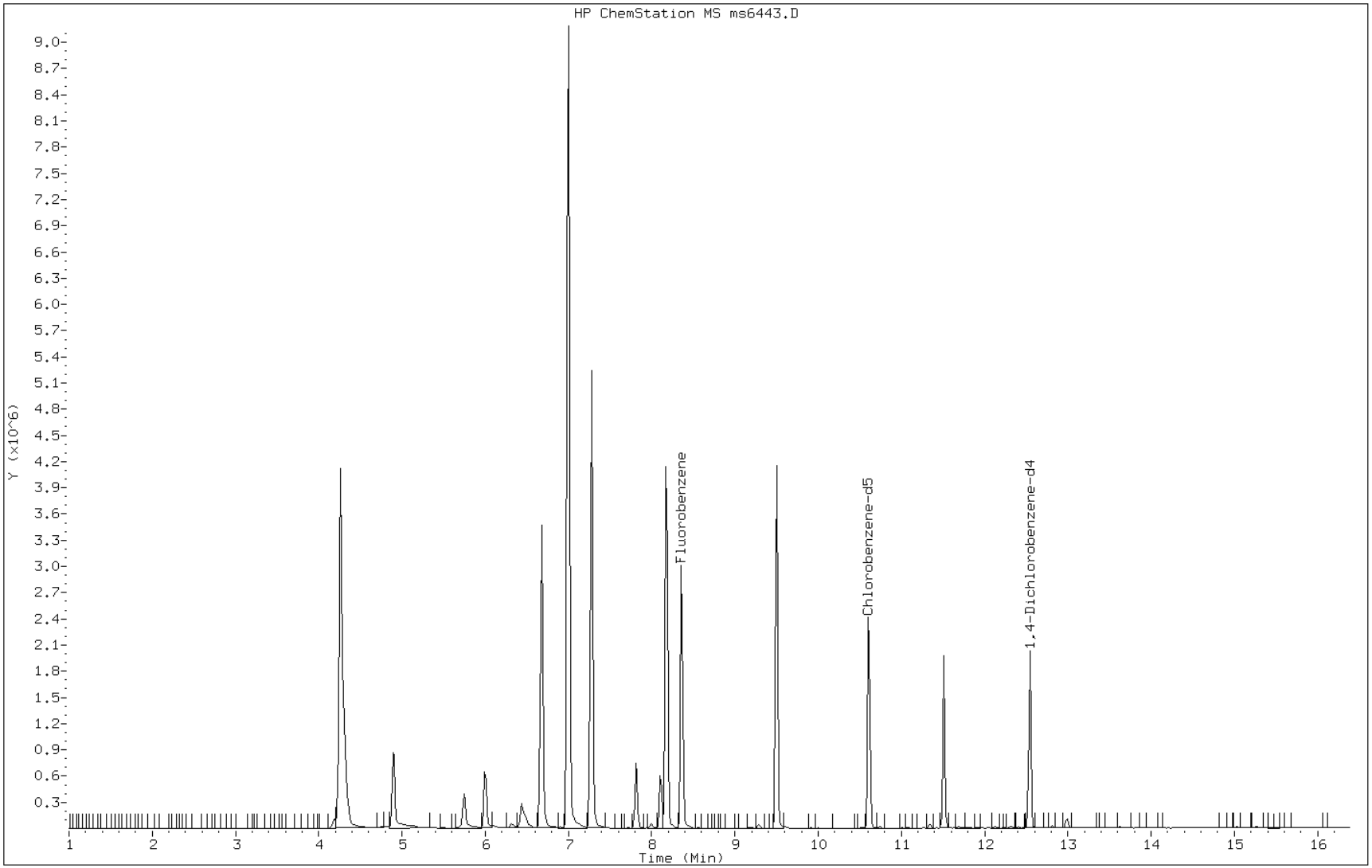
Q - Qualifier signal failed the ratio test.

Data File: ms6443.D

Date: 12-NOV-2010 22:47

Client ID: Instrument: GCMS1.i

Sample Info: ICV,,MC Operator: RYERSONJ



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-40764/12 Calibration Date: 11/12/2010 23:49

Instrument ID: MSV_MS1 Calib Start Date: 11/12/2010 19:43

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/12/2010 21:46

Lab File ID: ms6446.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4143	0.4249		10.3	10.0	2.5	55.0
Chloromethane	Ave	0.4355	0.3817	0.1000	8.76	10.0	-12.4	35.0
Vinyl chloride	Ave	0.4471	0.4124		9.22	10.0	-7.8	35.0
Bromomethane	Ave	0.2355	0.2360		10.0	10.0	0.2	35.0
Chloroethane	Ave	0.2746	0.2657		9.68	10.0	-3.2	35.0
Trichlorofluoromethane	Ave	0.6393	0.5664		8.86	10.0	-11.4	50.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6446.D
Lab Smp Id: ICV
Inj Date : 12-NOV-2010 23:49
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : ICV,,G
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\8260B-H2OAFC.m
Meth Date : 13-Nov-2010 02:01 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 3-gas.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

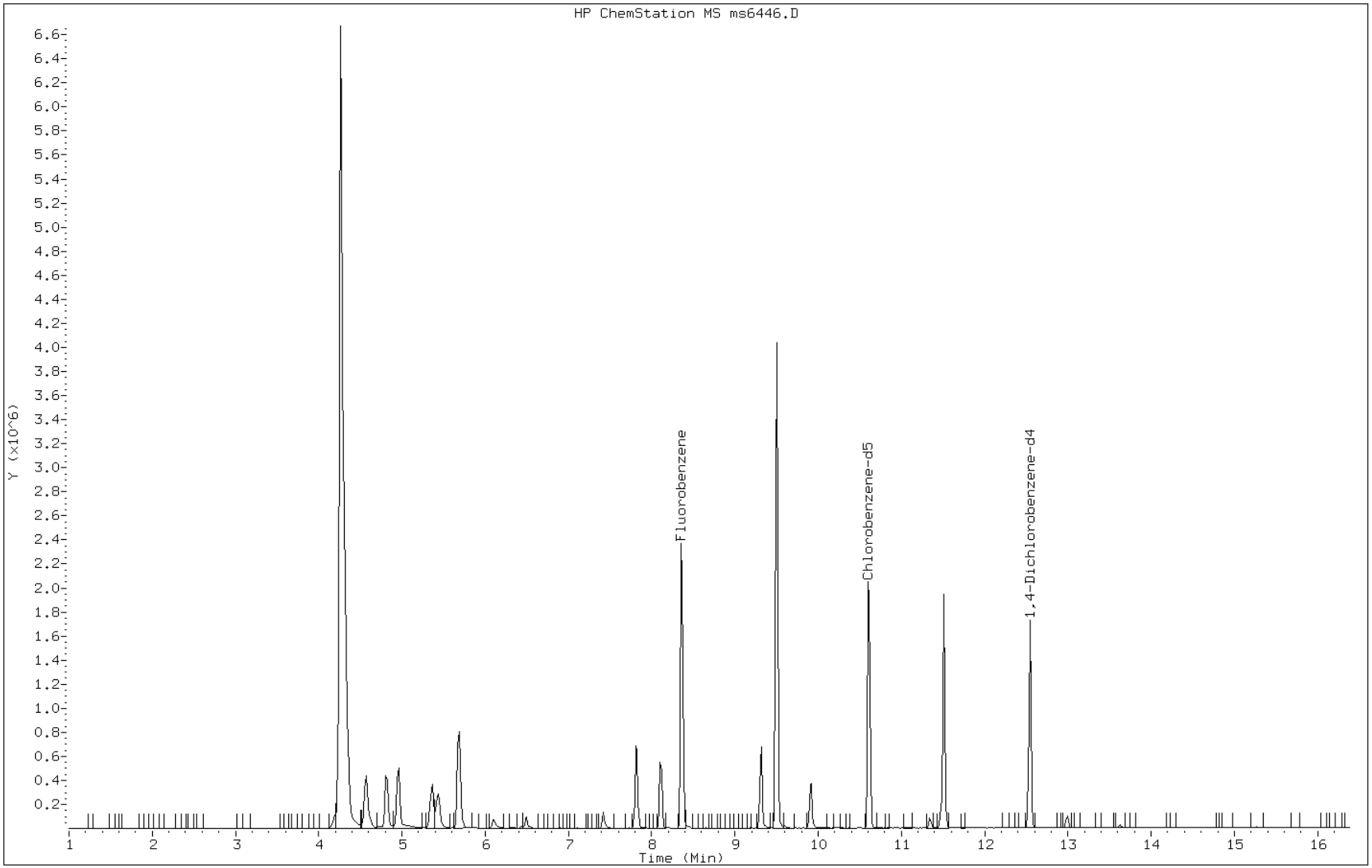
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60 Fluorobenzene	96	8.353	8.353	(1.000)	2186327	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.602	(1.000)	425061	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	523762	12.5000	
5 dichlorodifluoromethane	85	4.569	4.568	(0.547)	743100	10.2545	10.2545
7 Chloromethane	50	4.806	4.806	(0.575)	667688	8.76479	8.76479
8 Vinyl Chloride	62	4.960	4.960	(0.594)	721253	9.22324	9.22324
10 Bromomethane	94	5.365	5.365	(0.642)	412751	10.0210	10.0210
11 Chloroethane	64	5.434	5.434	(0.651)	464655	9.67530	9.67530
14 Trichlorofluoromethane	101	5.686	5.686	(0.681)	990606	8.85847	8.85847

Data File: ms6446.D

Date: 12-NOV-2010 23:49

Client ID: Instrument: GCMS1.i

Sample Info: ICV,,G Operator: RYERSONJ



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: ICV 280-40764/13 Calibration Date: 11/13/2010 06:56

Instrument ID: MSV_MS1 Calib Start Date: 11/12/2010 19:43

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/12/2010 21:46

Lab File ID: ms6467.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.5094	0.5179		10.2	10.0	1.7	35.0
Bromodichloromethane	Ave	0.2808	0.2868		10.2	10.0	2.1	35.0
Dibromochloromethane	Ave	0.6175	0.6020		9.75	10.0	-2.5	35.0
Bromoform	Lin1	0.2825	0.2584	0.1000	8.19	10.0	-18.1	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6467.D
Lab Smp Id: ICV
Inj Date : 13-NOV-2010 06:56
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : ICV,,BrForm
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\8260B-H2OAFC.m
Meth Date : 15-Nov-2010 17:14 ryersonj Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVBrForm.sub
Target Version: 4.14
Processing Host: DENPC211

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

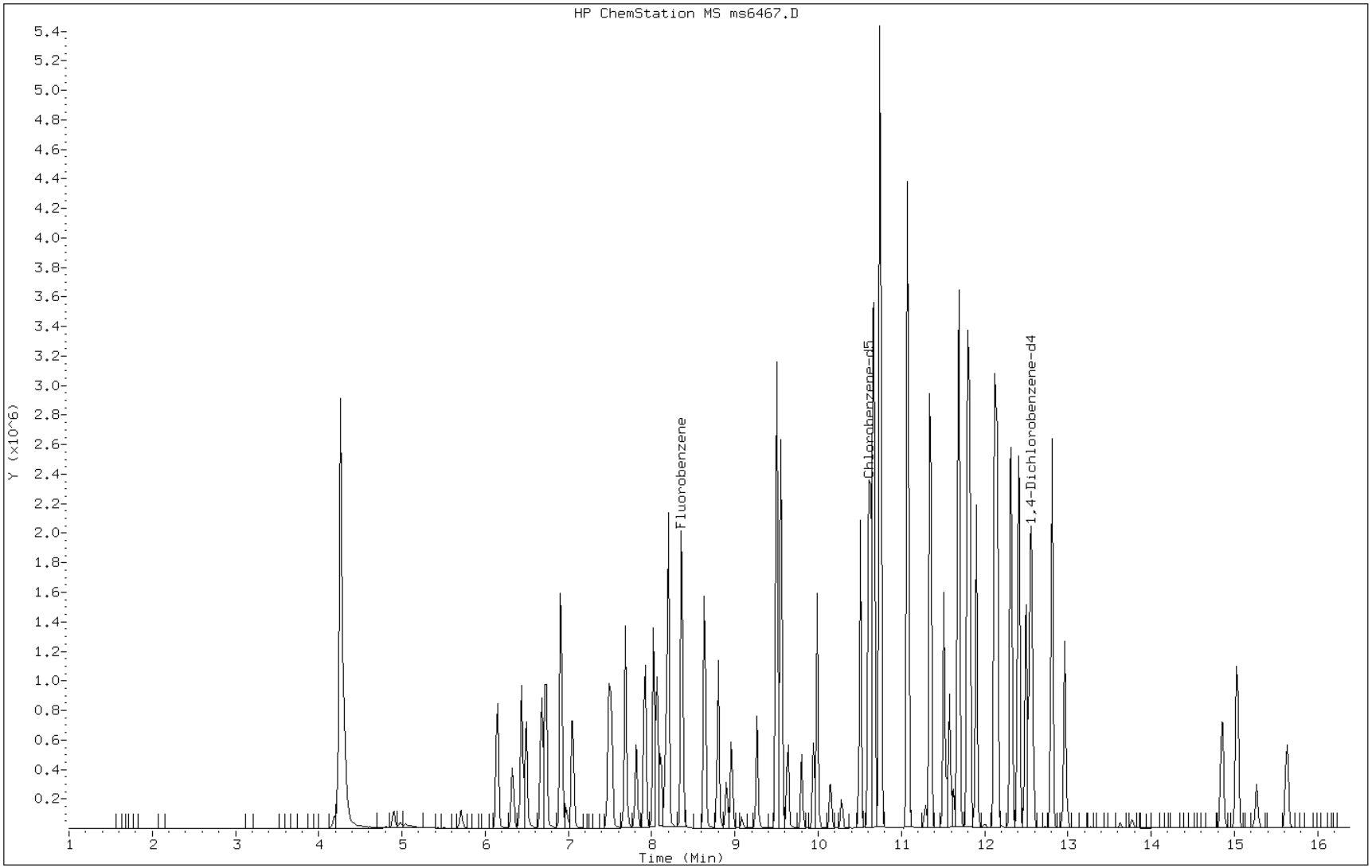
		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	60 Fluorobenzene	96	8.353	8.353	(1.000)	1755199	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.602	(1.000)	373410	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	500330	12.5000	
M	3 Trihalomethane (total)	100				1386867	38.3201	38.3201
	47 Chloroform	83	7.683	7.683	(0.920)	727192	10.1670	10.1670
	68 Bromodichloromethane	83	8.954	8.954	(1.072)	402658	10.2114	10.2114
	81 Dibromochloromethane	129	10.155	10.155	(0.957)	179828	9.74828	9.74828
	92 Bromoform	173	11.286	11.287	(1.063)	77189	8.19347	8.19347

Data File: ms6467.D

Date: 13-NOV-2010 06:56

Client ID: Instrument: GCMS1.i

Sample Info: ICV,,BrForm Operator: RYERSONJ



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: CCV 280-43324/2 Calibration Date: 12/01/2010 06:22

Instrument ID: MSV_MS1 Calib Start Date: 11/12/2010 19:43

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/12/2010 21:46

Lab File ID: ms7214.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.2958	0.3227		21.8	20.0	9.1	35.0
Xylenes, Total	Ave	2.609	2.760		31.7	30.0	5.8	35.0
Dichlorodifluoromethane	Ave	0.4143	0.4686		11.3	10.0	13.1	50.0
Chloromethane	Ave	0.4355	0.4136	0.1000	9.50	10.0	-5.0	35.0
Vinyl chloride	Ave	0.4471	0.4600		10.3	10.0	2.9	20.0
Bromomethane	Ave	0.2355	0.2425		10.3	10.0	3.0	35.0
Chloroethane	Ave	0.2746	0.3051		11.1	10.0	11.1	35.0
Ethanol	Ave	0.0008	0.0009		591	500	18.2	50.0
Trichlorofluoromethane	Ave	0.6393	0.6374		9.97	10.0	-0.3	50.0
Acrolein	Ave	0.0114	0.0133		116	100	16.5	50.0
Acetone	Lin2	0.0346	0.0291		37.0	40.0	-7.4	50.0
1,1-Dichloroethene	Ave	0.2552	0.2802		11.0	10.0	9.8	20.0
Acetonitrile	Ave	0.0088	0.0096		109	100	8.8	50.0
Iodomethane	Ave	0.3103	0.3096		9.97	10.0	-0.3	35.0
Tert-butyl alcohol (2-methyl-2-propanol)	Ave	0.0052	0.0052		202	200	1.0	50.0
Methylene Chloride	Lin2	0.2890	0.2609		10.5	10.0	5.3	35.0
Acrylonitrile	Ave	0.0253	0.0291		115	100	14.8	50.0
trans-1,2-Dichloroethene	Ave	0.3041	0.3331		11.0	10.0	9.6	35.0
Isopropyl ether	Ave	0.1737	0.2030		58.4	50.0	16.9	35.0
1,1-Dichloroethane	Ave	0.5749	0.6386	0.1000	11.1	10.0	11.1	35.0
Chloroprene	Ave	0.5796	0.7335		12.7	10.0	26.6	35.0
2-Butanone (MEK)	Ave	0.0373	0.0382		41.0	40.0	2.4	50.0
Propionitrile	Ave	0.0099	0.0113		114	100	13.7	50.0
cis-1,2-Dichloroethene	Ave	0.2875	0.3122		10.9	10.0	8.6	35.0
2,2-Dichloropropane	Ave	0.4149	0.4023		9.70	10.0	-3.0	35.0
Methacrylonitrile	Ave	0.0556	0.0657		118	100	18.2	50.0
Bromochloromethane	Ave	0.0885	0.0869		9.82	10.0	-1.8	35.0
Chloroform	Ave	0.5094	0.5474		10.7	10.0	7.5	20.0
Isobutyl alcohol	Ave	0.0026	0.0028		213	200	6.5	50.0
1,1,1-Trichloroethane	Ave	0.5213	0.5633		10.8	10.0	8.1	35.0
1,1-Dichloropropene	Ave	0.4759	0.5491		11.5	10.0	15.4	35.0
Carbon tetrachloride	Ave	0.4573	0.4714		10.3	10.0	3.1	35.0
1,2-Dichloroethane	Ave	0.2748	0.2931		10.7	10.0	6.6	35.0
Benzene	Ave	1.216	1.346		11.1	10.0	10.7	35.0
n-Butanol	Lin2	0.0024	0.0023		321	300	6.9	50.0
Trichloroethene	Ave	0.3293	0.3273		9.94	10.0	-0.6	35.0
1,2-Dichloropropane	Ave	0.2503	0.2882		11.5	10.0	15.1	20.0
1,4-Dioxane	Ave	0.0006	0.0007		590	500	18.0	50.0
Dibromomethane	Ave	0.0829	0.0853		10.3	10.0	2.9	35.0
Bromodichloromethane	Ave	0.2808	0.3078		11.0	10.0	9.6	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: CCV 280-43324/2 Calibration Date: 12/01/2010 06:22

Instrument ID: MSV_MS1 Calib Start Date: 11/12/2010 19:43

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/12/2010 21:46

Lab File ID: ms7214.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
cis-1,3-Dichloropropene	Ave	1.476	1.615		10.9	10.0	9.4	35.0
4-Methyl-2-pentanone	Ave	0.4113	0.4476		43.5	40.0	8.8	50.0
Toluene	Ave	1.331	1.456		10.9	10.0	9.3	20.0
trans-1,3-Dichloropropene	Ave	0.2128	0.2355		11.1	10.0	10.7	35.0
1,1,2-Trichloroethane	Ave	0.1135	0.1188		10.5	10.0	4.6	35.0
2-Hexanone	Lin2	0.0550	0.0614		40.8	40.0	2.1	50.0
1,3-Dichloropropane	Ave	1.129	1.184		10.5	10.0	4.9	35.0
Tetrachloroethene	Ave	1.375	1.275		9.27	10.0	-7.3	35.0
Dibromochloromethane	Ave	0.6175	0.6074		9.84	10.0	-1.6	35.0
1,2-Dibromoethane (EDB)	Ave	0.4622	0.4737		10.2	10.0	2.5	35.0
1-Chlorohexane	Ave	2.098	2.370		11.3	9.98	13.0	35.0
Chlorobenzene	Ave	3.699	3.511	0.3000	9.49	10.0	-5.1	35.0
1,1,1,2-Tetrachloroethane	Ave	1.112	1.038		9.33	10.0	-6.7	35.0
Ethylbenzene	Ave	2.204	2.285		10.4	10.0	3.7	20.0
m-Xylene & p-Xylene	Ave	2.710	2.856		21.1	20.0	5.4	35.0
o-Xylene	Ave	2.408	2.568		10.7	10.0	6.6	35.0
Styrene	Lin2	3.050	3.470		10.4	10.0	3.9	35.0
Bromoform	Lin1	0.2825	0.2540	0.1000	8.06	10.0	-19.4	35.0
Isopropylbenzene	Ave	5.148	5.969		11.6	10.0	16.0	35.0
Cyclohexanone	Ave	0.0185	0.0140		303	400	-24.3	50.0
1,1,2,2-Tetrachloroethane	Ave	0.4305	0.4518	0.3000	10.5	10.0	5.0	35.0
1,2,3-Trichloropropane	Ave	0.1168	0.1245		10.7	10.0	6.6	35.0
Bromobenzene	Ave	0.9551	0.9273		9.71	10.0	-2.9	35.0
n-Propylbenzene	Ave	1.497	1.616		10.8	10.0	7.9	35.0
1,3,5-Trimethylbenzene	Ave	4.356	5.058		11.6	10.0	16.1	35.0
2-Chlorotoluene	Ave	1.218	1.206		9.90	10.0	-1.0	35.0
4-Chlorotoluene	Ave	1.151	1.170		10.2	10.0	1.7	35.0
tert-Butylbenzene	Ave	4.443	5.016		11.3	10.0	12.9	35.0
1,2,4-Trimethylbenzene	Ave	4.294	4.944		11.5	10.0	15.1	35.0
sec-Butylbenzene	Ave	1.211	1.302		10.8	10.0	7.5	35.0
4-Isopropyltoluene	Ave	4.856	5.613		11.6	10.0	15.6	35.0
1,3-Dichlorobenzene	Ave	2.036	2.022		9.93	10.0	-0.7	35.0
1,4-Dichlorobenzene	Ave	1.999	1.963		9.82	10.0	-1.8	35.0
n-Butylbenzene	Ave	4.582	5.639		12.3	10.0	23.1	35.0
1,2-Dichlorobenzene	Ave	1.587	1.559		9.82	10.0	-1.8	35.0
1,2-Dibromo-3-Chloropropane	Lin2	0.0481	0.0454		9.02	10.0	-9.8	50.0
1,2,4-Trichlorobenzene	Ave	0.9901	0.9597		9.69	10.0	-3.1	35.0
Hexachlorobutadiene	Ave	0.998	0.9015		9.03	10.0	-9.7	35.0
Naphthalene	Lin1	0.9547	0.9421		8.65	10.0	-13.5	35.0
1,2,3-Trichlorobenzene	Ave	0.7556	0.6952		9.20	10.0	-8.0	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7214.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 01-DEC-2010 06:22
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : CCV,,M 5uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\8260B-H2OAFC.m
Meth Date : 01-Dec-2010 07:21 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC096

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	60 Fluorobenzene	96	8.354	8.354	(1.000)	2217003	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	476780	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.544	12.544	(1.000)	600577	12.5000	
M	1 1,2-Dichloroethene (total)	96				1144616	20.0000	21.8166
M	2 Xylene (total)	106				3157989	30.0000	31.7408
M	3 Trihalomethane (total)	100				1845240	40.0000	39.6044
M	4 1,3-Dichloropropene (total)	100				1033555	20.0000	22.0060
	5 dichlorodifluoromethane	85	4.569	4.569	(0.547)	831101	10.0000	11.3102
	7 Chloromethane	50	4.820	4.820	(0.577)	733507	10.0000	9.49557
	8 Vinyl Chloride	62	4.960	4.960	(0.594)	815842	10.0000	10.2885
	10 Bromomethane	94	5.365	5.365	(0.642)	430165	10.0000	10.2993
	11 Chloroethane	64	5.435	5.435	(0.651)	541114	10.0000	11.1115
	14 Trichlorofluoromethane	101	5.686	5.686	(0.681)	1130537	10.0000	9.96991
	13 Ethanol	45	5.686	5.686	(0.681)	80849	500.000	591.059
	18 Acrolein	56	6.007	6.007	(0.719)	235604	100.000	116.482
	22 Acetone	43	6.105	6.105	(0.731)	206389	40.0000	37.0369
	23 1,1-Dichloroethene	96	6.147	6.147	(0.736)	496992	10.0000	10.9783
	24 Iodomethane	142	6.329	6.329	(0.758)	549056	10.0000	9.97496
	25 Acetonitrile	41	6.315	6.315	(0.756)	170134	100.000	108.752
	29 tert-Butyl alcohol	59	6.440	6.440	(0.771)	184972	200.000	202.008
	30 Methylene Chloride	84	6.496	6.496	(0.778)	462744	10.0000	10.5325
	31 Acrylonitrile	53	6.636	6.636	(0.794)	515608	100.000	114.844

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.806)	590822	10.0000	10.9551
36 Isopropyl ether	87	6.999	6.999	(0.838)	1799907	50.0000	58.4266(Q)
37 1,1-Dichloroethane	63	7.055	7.055	(0.845)	1132699	10.0000	11.1078
38 Chloroprene	53	7.125	7.125	(0.853)	1300908	10.0000	12.6553
41 2-Butanone	43	7.418	7.418	(0.888)	271120	40.0000	40.9723
43 cis-1,2-Dichloroethene	96	7.488	7.488	(0.896)	553794	10.0000	10.8616
42 Propionitrile	54	7.474	7.474	(0.895)	199938	100.000	113.730
44 2,2-Dichloropropane	77	7.516	7.516	(0.900)	713514	10.0000	9.69579
45 Methacrylonitrile	41	7.600	7.600	(0.910)	1165406	100.000	118.180
46 Bromochloromethane	128	7.683	7.683	(0.920)	154140	10.0000	9.82405
47 Chloroform	83	7.683	7.683	(0.920)	970807	10.0000	10.7457
51 1,1,1-Trichloroethane	97	7.921	7.921	(0.948)	999121	10.0000	10.8072
50 Isobutanol	41	7.865	7.865	(0.941)	99725	200.000	212.972
53 1,1-Dichloropropene	75	8.019	8.019	(0.960)	973891	10.0000	11.5390
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	836111	10.0000	10.3082
57 1,2-Dichloroethane	62	8.172	8.172	(0.978)	519780	10.0000	10.6648
58 Benzene	78	8.200	8.200	(0.982)	2387431	10.0000	11.0686
59 n-Butanol	56	8.354	8.354	(1.000)	123274	300.000	320.621
61 Trichloroethene	130	8.633	8.633	(1.033)	580406	10.0000	9.93772
64 1,2-Dichloropropane	63	8.801	8.801	(1.053)	511064	10.0000	11.5129
66 1,4-Dioxane	88	8.857	8.857	(1.060)	63054	500.000	589.918
67 Dibromomethane	93	8.898	8.898	(1.065)	151322	10.0000	10.2862
68 Bromodichloromethane	83	8.954	8.954	(1.072)	545879	10.0000	10.9599
71 cis-1,3-Dichloropropene	75	9.262	9.262	(0.872)	615852	10.0000	10.9369
72 4-Methyl-2-pentanone	43	9.317	9.317	(0.878)	682839	40.0000	43.5229
74 Toluene	91	9.555	9.555	(1.144)	2581644	10.0000	10.9327
76 trans-1,3-Dichloropropene	75	9.639	9.639	(1.154)	417703	10.0000	11.0691
77 1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	210670	10.0000	10.4626
78 2-Hexanone	43	9.904	9.904	(1.186)	435756	40.0000	40.8452
79 1,3-Dichloropropane	76	9.946	9.946	(0.937)	451786	10.0000	10.4916
80 Tetrachloroethene	164	9.988	9.988	(0.941)	486140	10.0000	9.26693
81 Dibromochloromethane	129	10.155	10.155	(0.957)	231676	10.0000	9.83603
83 1,2-Dibromoethane	107	10.281	10.281	(0.968)	180692	10.0000	10.2486
84 1-Chlorohexane	91	10.505	10.505	(0.989)	902065	10.0000	11.2747
86 Chlorobenzene	112	10.630	10.630	(1.001)	1339208	10.0000	9.49119
88 1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	395847	10.0000	9.33304
87 Ethylbenzene	106	10.672	10.672	(1.005)	871684	10.0000	10.3673
89 m and p-Xylene	106	10.742	10.742	(1.012)	2178651	20.0000	21.0761
90 o-Xylene	106	11.077	11.077	(1.043)	979338	10.0000	10.6646
91 Styrene	104	11.077	11.077	(1.043)	1323354	10.0000	10.3912
92 Bromoform	173	11.287	11.287	(1.063)	96878	10.0000	8.06281
93 isopropyl benzene	105	11.343	11.343	(0.904)	2867937	10.0000	11.5959
95 Cyclohexanone	55	11.482	11.482	(1.082)	213133	400.000	302.698
97 1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	217086	10.0000	10.4955
99 1,2,3-Trichloropropane	110	11.622	11.622	(0.927)	59800	10.0000	10.6596
101 Bromobenzene	156	11.692	11.692	(0.932)	445543	10.0000	9.70956
100 n-Propylbenzene	120	11.692	11.692	(0.932)	776272	10.0000	10.7910
103 2-Chlorotoluene	126	11.817	11.817	(0.942)	579646	10.0000	9.90112
102 1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	2430134	10.0000	11.6118
104 4-Chlorotoluene	126	11.901	11.901	(0.949)	562279	10.0000	10.1711
105 tert-Butylbenzene	119	12.125	12.125	(0.967)	2409854	10.0000	11.2882
106 1,2,4-Trimethylbenzene	105	12.153	12.153	(0.969)	2375320	10.0000	11.5145
107 sec-Butylbenzene	134	12.320	12.320	(0.982)	625679	10.0000	10.7549
108 4-Isopropyltoluene	119	12.418	12.418	(0.990)	2696890	10.0000	11.5593

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	12.502	12.502	(0.997)	971611	10.0000	9.93338
111 1,4-dichlorobenzene	146	12.572	12.572	(1.002)	943047	10.0000	9.81837
113 n-Butylbenzene	91	12.809	12.809	(1.021)	2709470	10.0000	12.3085
114 1,2-Dichlorobenzene	146	12.963	12.963	(1.033)	749184	10.0000	9.82347
115 1,2-Dibromo-3-chloropropane	157	13.773	13.773	(1.098)	21804	10.0000	9.02333
117 1,2,4-Trichlorobenzene	180	14.862	14.862	(1.185)	461118	10.0000	9.69363
118 Hexachlorobutadiene	225	15.030	15.030	(1.198)	433134	10.0000	9.02888
119 Naphthalene	128	15.267	15.267	(1.217)	452656	10.0000	8.65354
120 1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	334009	10.0000	9.20092

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: ms7214.D

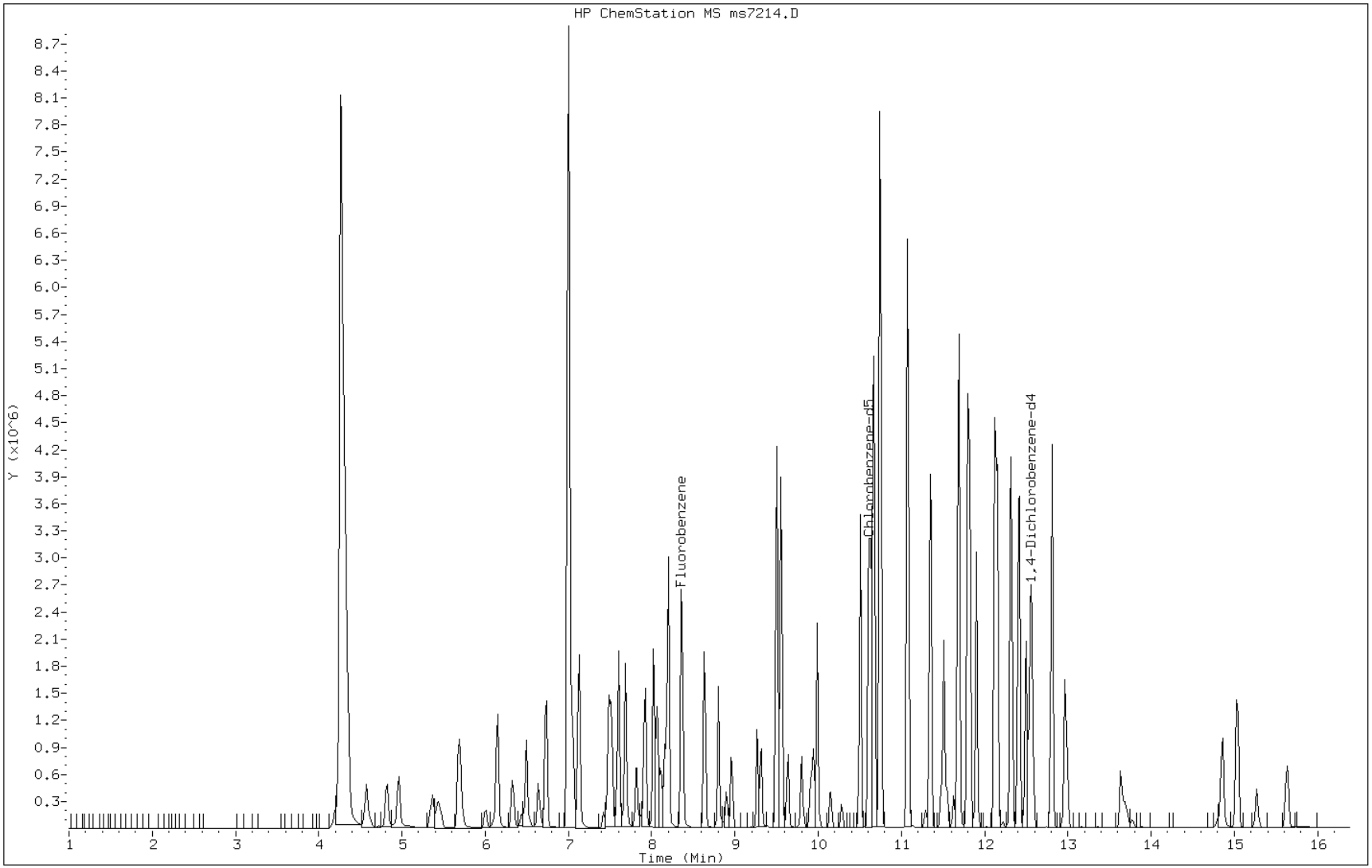
Date: 01-DEC-2010 06:22

Client ID: CCV

Instrument: GCMS1.i

Sample Info: CCV,,M 5uL

Operator: DOBRANSKYM



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Lab Sample ID: CCV 280-43324/3 Calibration Date: 12/01/2010 06:43

Instrument ID: MSV_MS1 Calib Start Date: 11/10/2010 18:01

GC Column: DB-624 (60.32) ID: 0.32(mm) Calib End Date: 11/10/2010 20:04

Lab File ID: ms7215.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.3003	0.3201		10.7	10.0	6.6	50.0
Ethylene oxide	Ave	0.0054	0.0064		1480	1250	18.8	50.0
Dichlorofluoromethane	Ave	0.6472	0.7028		10.9	10.0	8.6	50.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.3447	0.3185		9.24	10.0	-7.6	50.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.5372	0.5391		10.0	10.0	0.4	50.0
Ethyl ether	Ave	0.1275	0.1588		12.5	10.0	24.6	35.0
2-Propanol	Ave	0.0043	0.0052		242	200	21.1	50.0
1,1,2-Trichlorotrifluoroethane	Ave	0.3030	0.2556		8.44	10.0	-15.6	50.0
Methyl acetate	Ave	0.0595	0.0699		58.7	50.0	17.4	50.0
Allyl chloride	Ave	0.5323	0.6644		12.5	10.0	24.8	35.0
Carbon disulfide	Ave	1.270	1.336		10.5	10.0	5.2	50.0
Methyl tert-butyl ether	Ave	0.3561	0.4016		11.3	10.0	12.8	35.0
Hexane	Ave	2.782	3.368		12.1	10.0	21.1	35.0
Vinyl acetate	Ave	0.2009	0.2756		27.4	20.0	37.2	50.0
Tert-butyl ethyl ether	Ave	0.4899	0.5969		60.9	50.0	21.9	35.0
Ethyl acetate	Ave	0.0792	0.0989		25.0	20.0	24.9	50.0
Tetrahydrofuran	Ave	0.0220	0.0279		25.3	20.0	26.6	50.0
Cyclohexane	Ave	0.6554	0.8198		12.5	10.0	25.1	35.0
Tert-amyl methyl ether	Lin2	0.3538	0.3774		48.7	50.0	-2.6	35.0
2-Pentanone	Ave	0.0522	0.0658		50.4	40.0	26.0	50.0
Methyl methacrylate	Lin2	0.0222	0.0235		19.0	20.0	-4.8	35.0
Methylcyclohexane	Ave	0.5744	0.6949		12.1	10.0	21.0	35.0
2-Chloroethyl vinyl ether	Lin1	0.1362	0.1230		7.28	10.0	-27.2	50.0
2-Nitropropane	Ave	0.0958	0.0794		8.29	10.0	-17.1	50.0
Ethyl methacrylate	Lin1	0.6403	0.7451		19.7	20.0	-1.6	35.0
Tetrahydrothiophene	Lin1	0.3102	0.3368		9.04	10.0	-9.6	50.0
cis-1,4-Dichloro-2-butene	Lin1	0.1081	0.1310		10.6	10.0	5.6	50.0
trans-1,4-Dichloro-2-butene	Lin1	0.1010	0.1143		10.0	10.0	0.2	50.0
1,2,3-Trimethylbenzene	Ave	4.131	4.440		10.7	10.0	7.5	35.0
Dibromofluoromethane (Surr)	Ave	0.2440	0.2200		10.8	12.0	-9.8	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2339	0.2232		11.5	12.0	-4.6	35.0
Toluene-d8 (Surr)	Ave	5.715	6.014		12.6	12.0	5.2	35.0
4-Bromofluorobenzene (Surr)	Ave	1.341	1.332		11.9	12.0	-0.7	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7215.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 01-DEC-2010 06:43
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : CCV,,S 5uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\8260B-H2OAFC.m
Meth Date : 01-Dec-2010 07:21 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC096

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 60 Fluorobenzene	96	8.354	8.354	(1.000)	2310050	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	467050	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.544	12.544	(1.000)	569498	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	487935	12.0000	10.8203
$ 55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	494997	12.0000	11.4538
$ 73 Toluene-d8	98	9.499	9.499	(0.895)	2696685	12.0000	12.6278
$ 96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	728044	12.0000	11.9198
6 1,2-Dichlorotetrafluoroethane	85	4.723	4.723	(0.565)	591540	10.0000	10.6603
9 Ethylene Oxide	43	5.295	5.295	(0.634)	1483958	1250.00	1484.44
12 Dichlorofluoromethane	67	5.561	5.561	(0.666)	1298871	10.0000	10.8595
15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.826	(0.697)	588660	10.0000	9.24153
17 Ethyl Ether	59	5.868	5.868	(0.702)	293535	10.0000	12.4601
16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.854	(0.701)	996214	10.0000	10.0355
19 Propylene Oxide	58	Compound Not Detected.					
20 Trichlorotrifluoroethane	151	6.119	6.119	(0.733)	472278	10.0000	8.43556
21 2-propanol	45	6.105	6.105	(0.731)	193247	200.000	242.207
26 Methyl Acetate	43	6.343	6.343	(0.759)	645849	50.0000	58.7084
27 Allyl Chloride	41	6.413	6.413	(0.768)	1227746	10.0000	12.4804
28 Carbon Disulfide	76	6.440	6.440	(0.771)	2469895	10.0000	10.5234
32 Methyl t-butyl ether	73	6.678	6.678	(0.799)	742173	10.0000	11.2785
34 Hexane	57	6.901	6.901	(0.650)	1258492	10.0000	12.1093
35 Vinyl acetate	43	6.971	6.971	(0.834)	1018775	20.0000	27.4442

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 ETBE	59	7.278	7.278	(0.871)	5515742	50.0000	60.9258
40 Ethyl Acetate	43	7.404	7.404	(0.886)	365587	20.0000	24.9810
48 Tetrahydrofuran	42	7.725	7.725	(0.925)	103151	20.0000	25.3288
52 Cyclohexane	56	8.005	8.005	(0.958)	1514992	10.0000	12.5082
56 TAME	73	8.172	8.172	(0.978)	3487577	50.0000	48.6940
62 2-Pentanone	43	8.647	8.647	(1.035)	486554	40.0000	50.3914
65 Methyl Cyclohexane	55	8.829	8.829	(1.057)	1284247	10.0000	12.0983
63 Methyl Methacrylate	100	8.745	8.745	(1.047)	86883	20.0000	19.0401(Q)
69 2-nitropropane	41	9.080	9.080	(0.855)	29650	10.0000	8.28563
70 2-Chloroethyl vinyl ether	63	9.080	9.080	(0.855)	45970	10.0000	7.28376
75 Ethyl methacrylate	69	9.611	9.611	(0.905)	556784	20.0000	19.6818
82 Tetrahydrothiophene	60	10.211	10.211	(0.962)	125832	10.0000	9.03902
94 cis-1,4-dichloro-2-butene	53	11.357	11.357	(0.905)	59661	10.0000	10.5562
98 t-1,4-Dichloro-2-butene	53	11.580	11.580	(0.923)	52086	10.0000	10.0175
112 1,2,3-Trimethylbenzene	105	12.572	12.572	(1.002)	2022719	10.0000	10.7480

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: ms7215.D

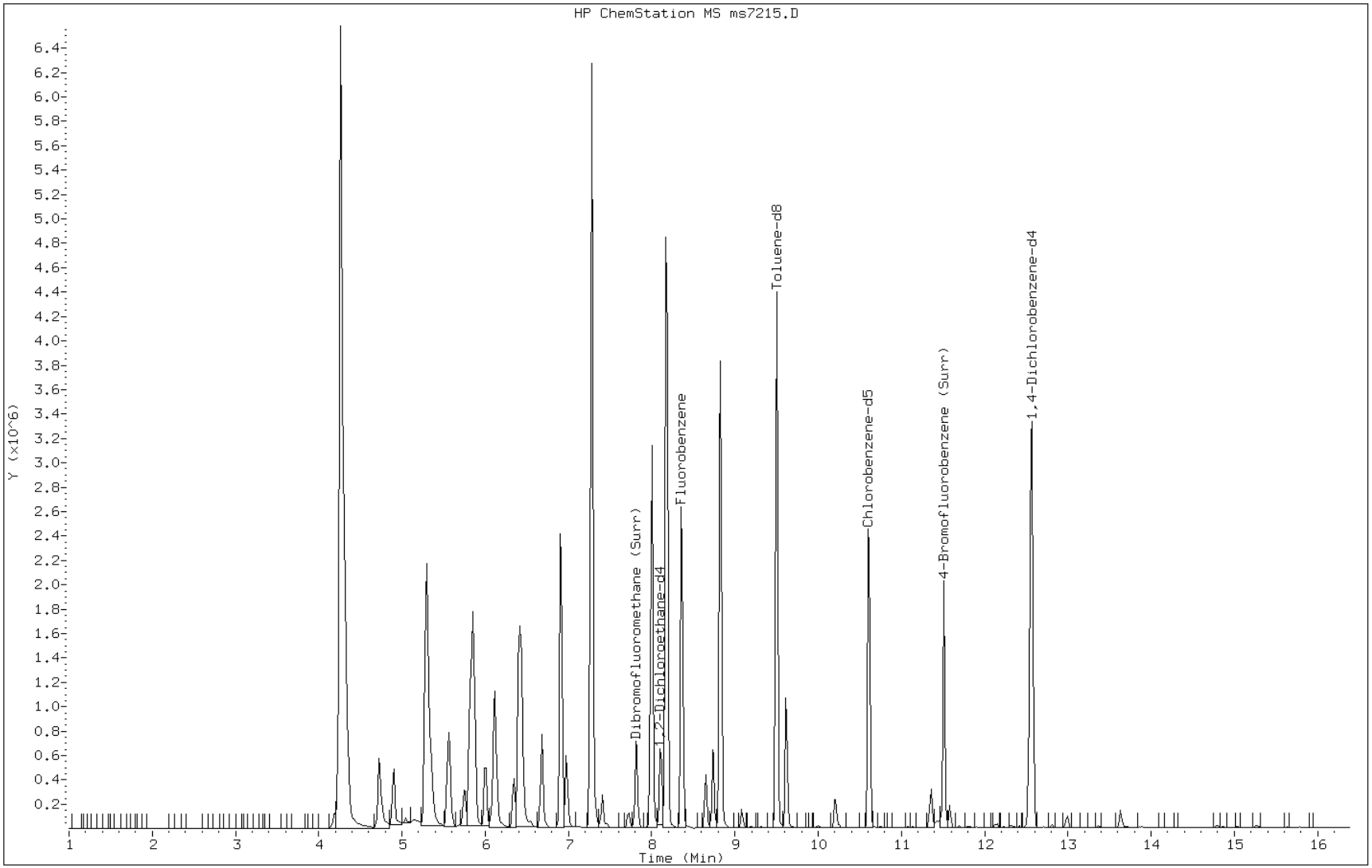
Date: 01-DEC-2010 06:43

Client ID: CCV

Instrument: GCMS1.i

Sample Info: CCV,,S 5uL

Operator: DOBRANSKYM



TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7793.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-NOV-2010 10:07
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : BFB
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\bfb390.m
Meth Date : 28-Nov-2010 10:00 target Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC088

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.895	4.895	(0.000)	95	353152			0.00- 100.00	100.00
4.895	4.895	(0.000)	50	84648			15.00- 40.00	23.97
4.895	4.895	(0.000)	75	189440			30.00- 60.00	53.64
4.895	4.895	(0.000)	96	24128			5.00- 9.00	6.83
4.895	4.895	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.895	4.895	(0.000)	174	213632			50.00- 0.00	60.49
4.895	4.895	(0.000)	175	15973			5.00- 9.00	7.48
4.895	4.895	(0.000)	176	205760			95.00- 101.00	96.32
4.895	4.895	(0.000)	177	13936			5.00- 9.00	6.77

Data File: g2_7793.D

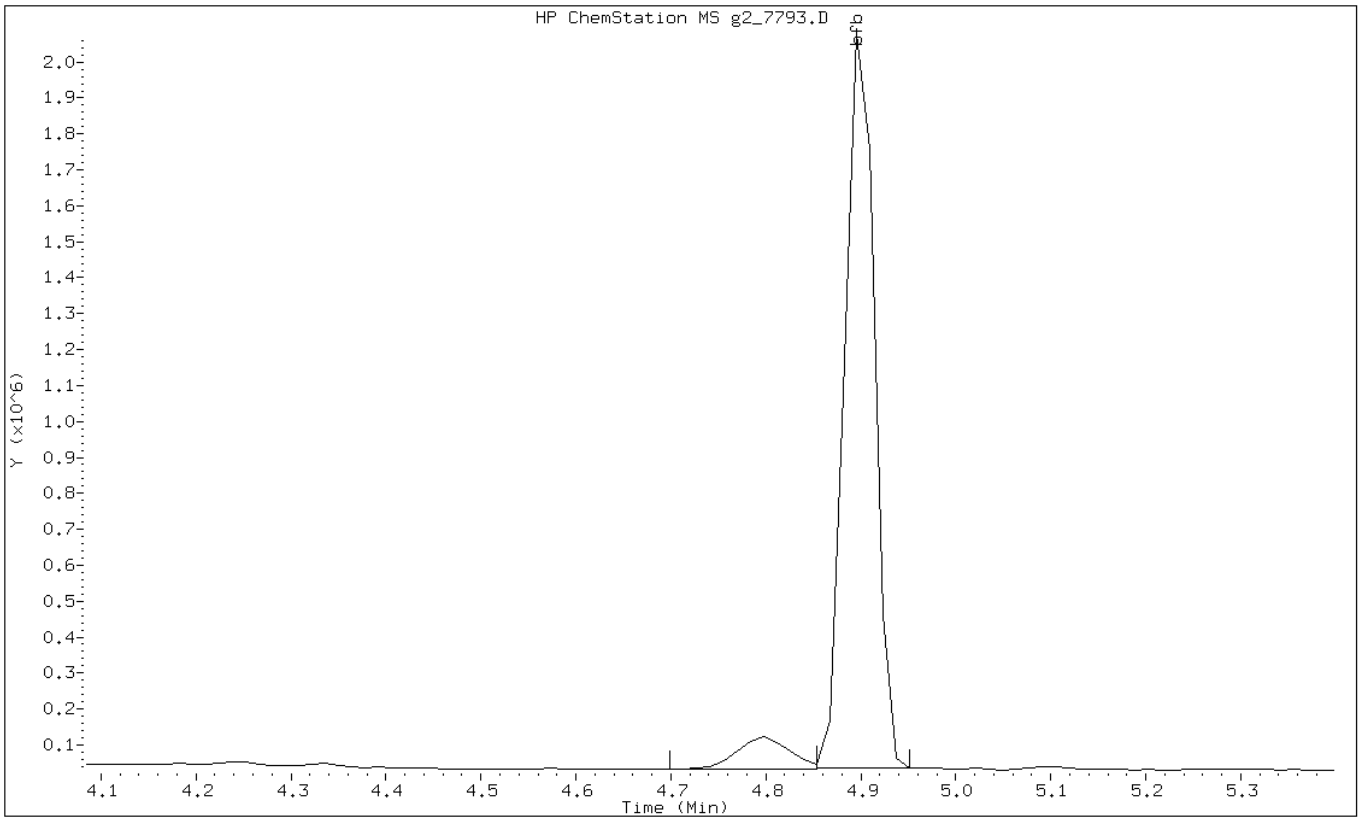
Date: 28-NOV-2010 10:07

Client ID: BFB

Instrument: GCMS2.i

Sample Info: BFB

Operator: ILCZYSZD



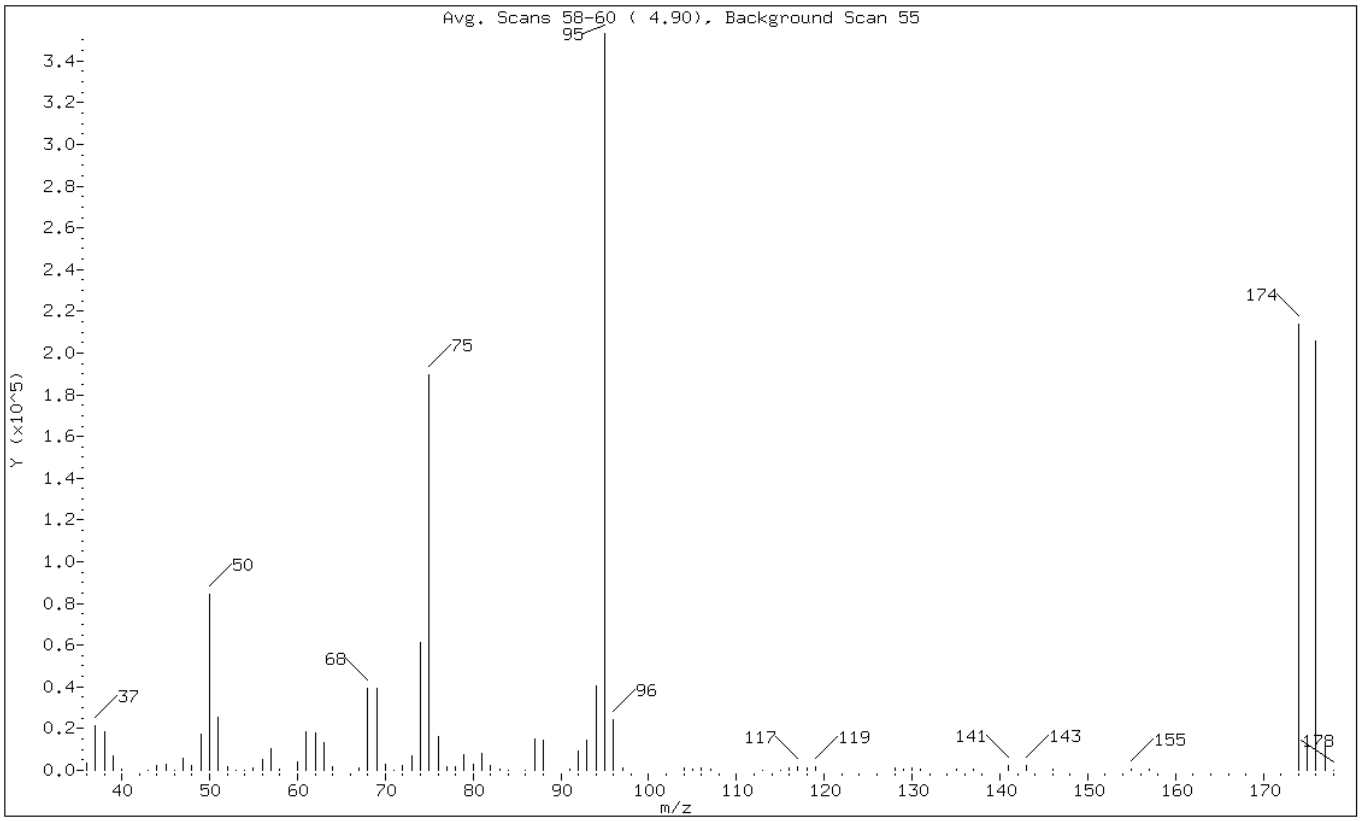
Data File: g2_7793.D

Date: 28-NOV-2010 10:07

Client ID: BFB Instrument: GCMS2.i

Sample Info: BFB Operator: ILCZYSZD

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.97
75	30.00 - 60.00% of mass 95	53.64
96	5.00 - 9.00% of mass 95	6.83
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	60.49
175	5.00 - 9.00% of mass 174	4.52 (7.48)
176	95.00 - 101.00% of mass 174	58.26 (96.32)
177	5.00 - 9.00% of mass 176	3.95 (6.77)

Data File: g2_7793.D

Date: 28-NOV-2010 10:07

Client ID: BFB Instrument: GCMS2.i

Sample Info: BFB Operator: ILCZYSZD

Data File: \\DenSvr03\Public\chem\MSV\GCMS2.i\112810I.b\g2_7793.D
Spectrum: Avg. Scans 58-60 (4.90), Background Scan 55
Location of Maximum: 95.00
Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3403	60.00	3947	83.00	631	119.00	1602
37.00	21288	61.00	18512	84.00	190	128.00	1092
38.00	18408	62.00	18008	86.00	192	129.00	469
39.00	7114	63.00	13196	87.00	15291	130.00	1044
40.00	289	64.00	1473	88.00	14670	131.00	426
43.00	146	67.00	1150	91.00	774	135.00	429
44.00	2080	68.00	39368	92.00	9375	137.00	456
45.00	3105	69.00	39328	93.00	14197	141.00	2519
46.00	218	70.00	2786	94.00	40384	143.00	2412
47.00	5782	71.00	169	95.00	353152	146.00	370
48.00	2442	72.00	2075	96.00	24128	155.00	548
49.00	17376	73.00	7117	97.00	969	157.00	389
50.00	84648	74.00	61528	104.00	1374	174.00	213632
51.00	25280	75.00	189440	105.00	729	175.00	15973
52.00	1473	76.00	16400	106.00	1293	176.00	205760
53.00	6	77.00	2002	107.00	340	177.00	13936
54.00	60	78.00	1949	113.00	182	178.00	194
55.00	946	79.00	7605	115.00	173		
56.00	5190	80.00	2790	116.00	1024		
57.00	10422	81.00	7996	117.00	1827		
58.00	792	82.00	2238	118.00	1008		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\112910p.b\g2_7812.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-NOV-2010 16:01
Operator : jacksonto Inst ID: GCMS2.i
Smp Info : BFB
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\112910p.b\bfb390.m
Meth Date : 28-Nov-2010 10:00 target Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC088

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.895	4.895	(0.000)	95	94496			0.00- 100.00	100.00
4.895	4.895	(0.000)	50	21584			15.00- 40.00	22.84
4.895	4.895	(0.000)	75	49944			30.00- 60.00	52.85
4.895	4.895	(0.000)	96	6821			5.00- 9.00	7.22
4.895	4.895	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.895	4.895	(0.000)	174	57192			50.00- 0.00	60.52
4.895	4.895	(0.000)	175	4258			5.00- 9.00	7.45
4.895	4.895	(0.000)	176	54600			95.00- 101.00	95.47
4.895	4.895	(0.000)	177	3691			5.00- 9.00	6.76

Data File: g2_7812.D

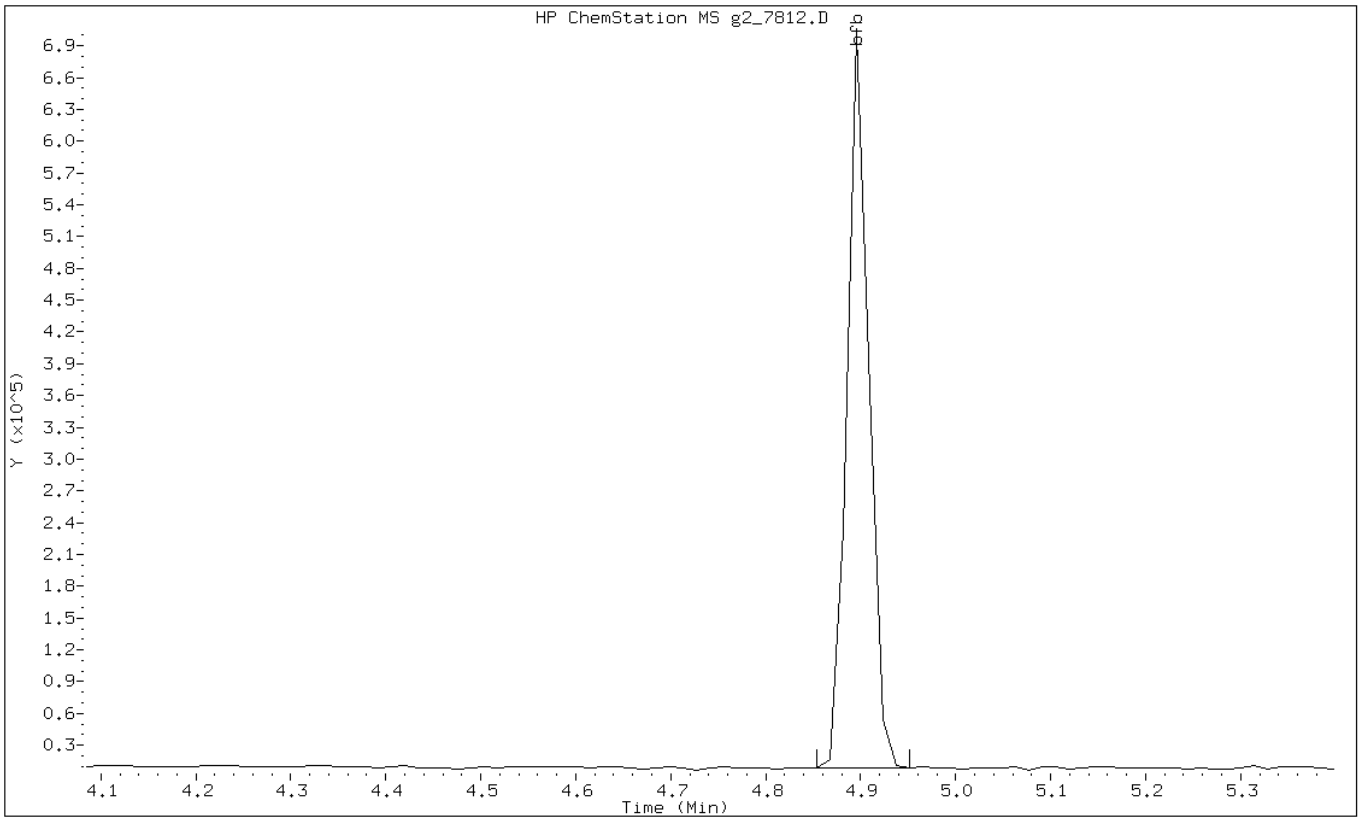
Date: 29-NOV-2010 16:01

Client ID: BFB

Instrument: GCMS2.i

Sample Info: BFB

Operator: jacksonto



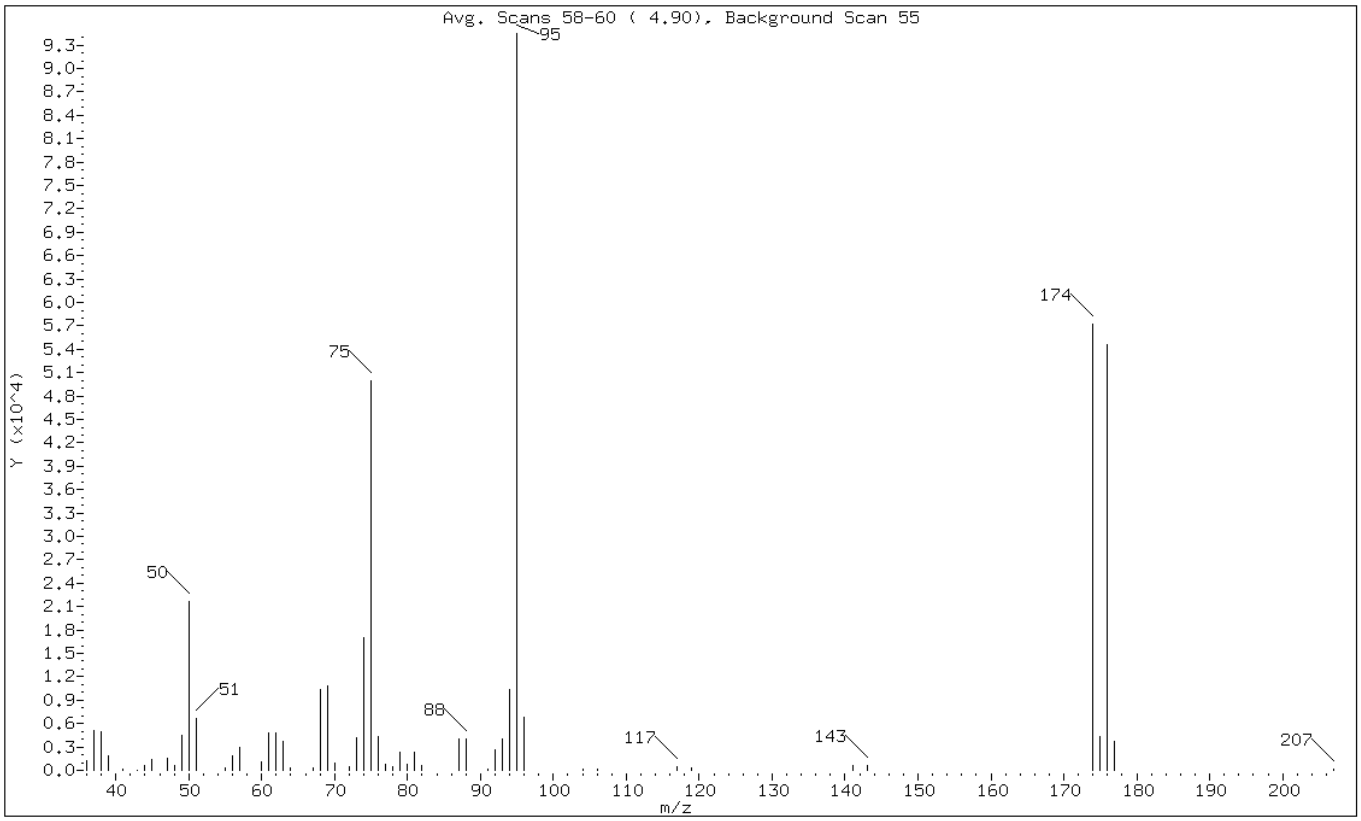
Data File: g2_7812.D

Date: 29-NOV-2010 16:01

Client ID: BFB Instrument: GCMS2.i

Sample Info: BFB Operator: jacksonto

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.84
75	30.00 - 60.00% of mass 95	52.85
96	5.00 - 9.00% of mass 95	7.22
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	60.52
175	5.00 - 9.00% of mass 174	4.51 (7.45)
176	95.00 - 101.00% of mass 174	57.78 (95.47)
177	5.00 - 9.00% of mass 176	3.91 (6.76)

Data File: g2_7812.D

Date: 29-NOV-2010 16:01

Client ID: BFB Instrument: GCMS2.i

Sample Info: BFB Operator: jacksonto

Data File: \\DenSvr03\Public\chem\MSV\GCMS2.i\112910p.b\g2_7812.D
Spectrum: Avg. Scans 58-60 (4.90), Background Scan 55
Location of Maximum: 95.00
Number of points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1232	56.00	1780	75.00	49944	95.00	94496
37.00	5138	57.00	2930	76.00	4312	96.00	6821
38.00	4973	60.00	1123	77.00	728	104.00	195
39.00	1914	61.00	4839	78.00	465	106.00	207
41.00	133	62.00	4761	79.00	2352	117.00	445
43.00	46	63.00	3776	80.00	812	119.00	246
44.00	549	64.00	235	81.00	2373	141.00	567
45.00	1336	67.00	236	82.00	555	143.00	630
47.00	1543	68.00	10336	87.00	4051	174.00	57192
48.00	600	69.00	10810	88.00	4085	175.00	4258
49.00	4443	70.00	901	91.00	215	176.00	54600
50.00	21584	72.00	539	92.00	2605	177.00	3691
51.00	6695	73.00	4118	93.00	4003	207.00	134
55.00	253	74.00	16960	94.00	10429		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7864.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 01-DEC-2010 16:33
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : BFB,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\bfb390.m
Meth Date : 01-Sep-2010 17:53 ilczyszynd Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC088

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.909	5.088	(0.000)	95	141440			0.00- 100.00	100.00
4.909	5.088	(0.000)	50	34088			15.00- 40.00	24.10
4.909	5.088	(0.000)	75	77776			30.00- 60.00	54.99
4.909	5.088	(0.000)	96	9516			5.00- 9.00	6.73
4.909	5.088	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.909	5.088	(0.000)	174	92848			50.00- 0.00	65.64
4.909	5.088	(0.000)	175	6950			5.00- 9.00	7.49
4.909	5.088	(0.000)	176	90208			95.00- 101.00	97.16
4.909	5.088	(0.000)	177	6063			5.00- 9.00	6.72

Data File: g2_7864.D

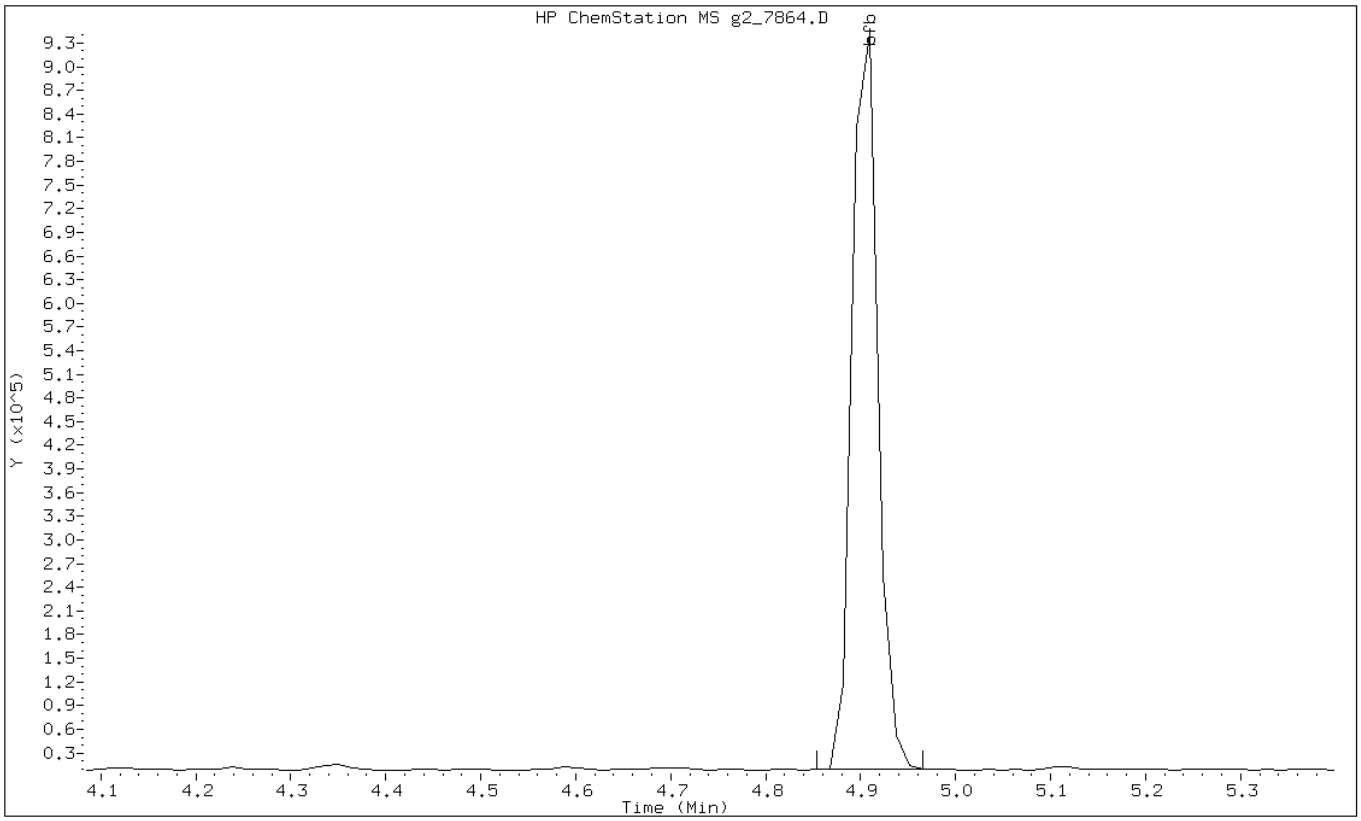
Date: 01-DEC-2010 16:33

Client ID: BFB

Instrument: GCMS2.i

Sample Info: BFB,,

Operator: ILCZYSZD



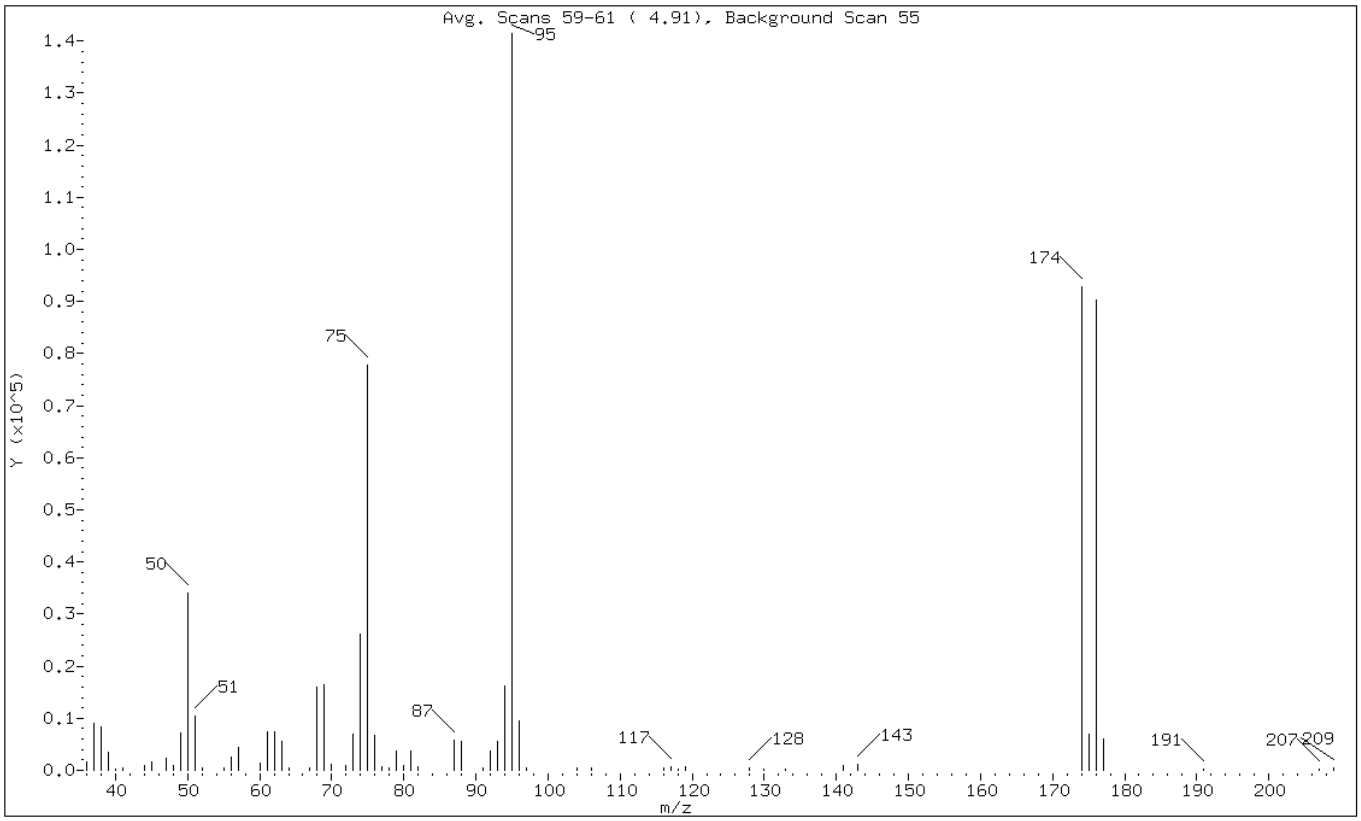
Data File: g2_7864.D

Date: 01-DEC-2010 16:33

Client ID: BFB Instrument: GCMS2.i

Sample Info: BFB,, Operator: ILCZYSZD

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.10
75	30.00 - 60.00% of mass 95	54.99
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	65.64
175	5.00 - 9.00% of mass 174	4.91 (7.49)
176	95.00 - 101.00% of mass 174	63.78 (97.16)
177	5.00 - 9.00% of mass 176	4.29 (6.72)

Data File: g2_7864.D

Date: 01-DEC-2010 16:33

Client ID: BFB Instrument: GCMS2.i

Sample Info: BFB,, Operator: ILCZYSZD

Data File: \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7864.D
Spectrum: Avg. Scans 59-61 (4.91), Background Scan 55
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1736	60.00	1455	80.00	1027	119.00	627
37.00	9035	61.00	7505	81.00	3801	128.00	423
38.00	8261	62.00	7387	82.00	780	130.00	202
39.00	3442	63.00	5600	87.00	5761	133.00	176
40.00	208	64.00	411	88.00	5599	141.00	935
41.00	567	67.00	415	91.00	523	143.00	1114
44.00	816	68.00	16019	92.00	3813	174.00	92848
45.00	1703	69.00	16456	93.00	5638	175.00	6950
47.00	2286	70.00	1138	94.00	16182	176.00	90208
48.00	878	72.00	822	95.00	141440	177.00	6063
49.00	7208	73.00	7050	96.00	9516	191.00	172
50.00	34088	74.00	26168	97.00	356	207.00	213
51.00	10339	75.00	77776	104.00	531	209.00	363
52.00	447	76.00	6741	106.00	460		
55.00	509	77.00	810	116.00	432		
56.00	2451	78.00	555	117.00	653		
57.00	4441	79.00	3648	118.00	195		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\ms4737.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-OCT-2010 18:48
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : BFB,,1uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\bfb390.m
Meth Date : 23-Sep-2010 20:12 ryersonj Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC088

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.966	4.938	(0.000)	95	96680			0.00- 100.00	100.00
4.966	4.938	(0.000)	50	16432			15.00- 40.00	17.00
4.966	4.938	(0.000)	75	44736			30.00- 60.00	46.27
4.966	4.938	(0.000)	96	6255			5.00- 9.00	6.47
4.966	4.938	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.966	4.938	(0.000)	174	72208			50.00- 0.00	74.69
4.966	4.938	(0.000)	175	5211			5.00- 9.00	7.22
4.966	4.938	(0.000)	176	70320			95.00- 101.00	97.39
4.966	4.938	(0.000)	177	4851			5.00- 9.00	6.90

Data File: ms4737.D

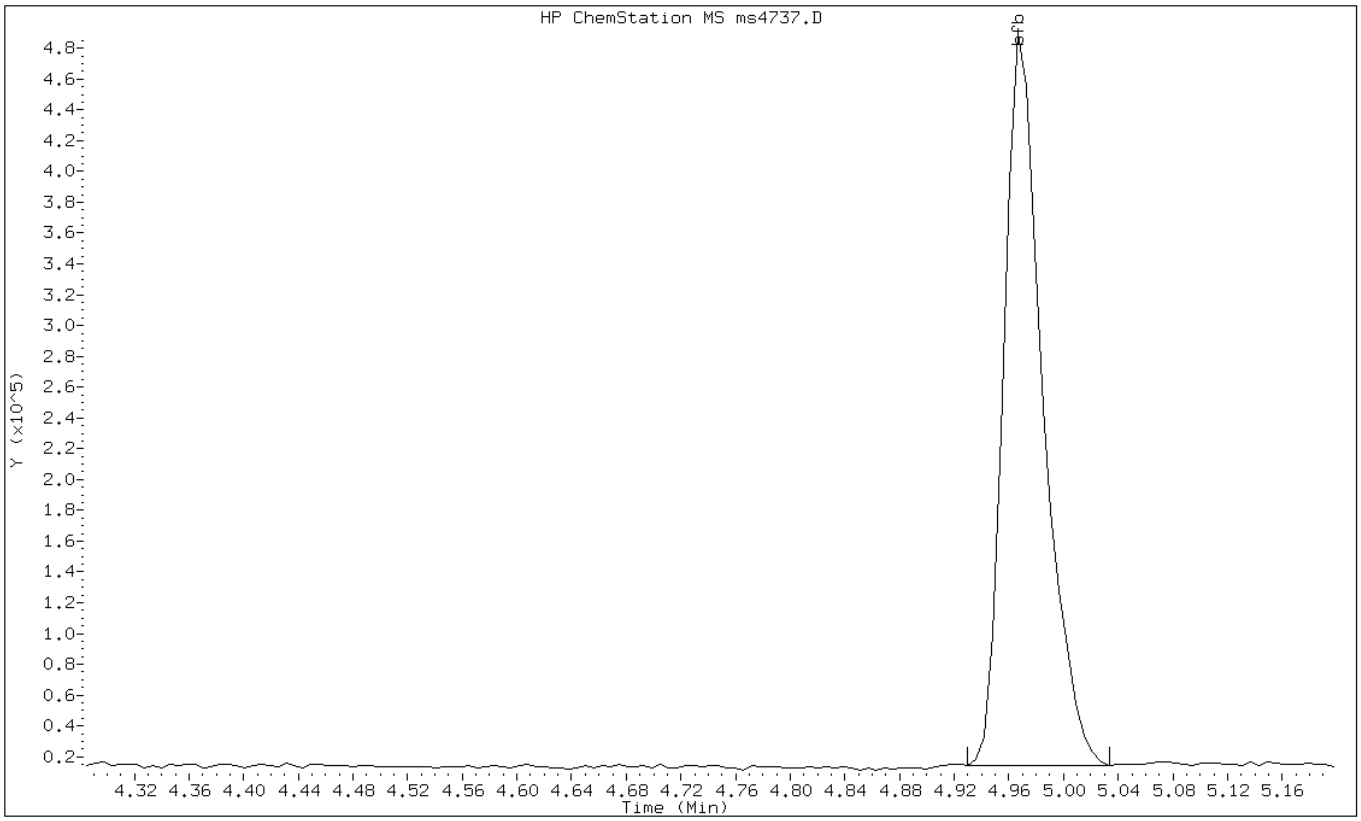
Date: 12-OCT-2010 18:48

Client ID: BFB

Instrument: GCMS1.i

Sample Info: BFB,,1uL

Operator: RYERSONJ



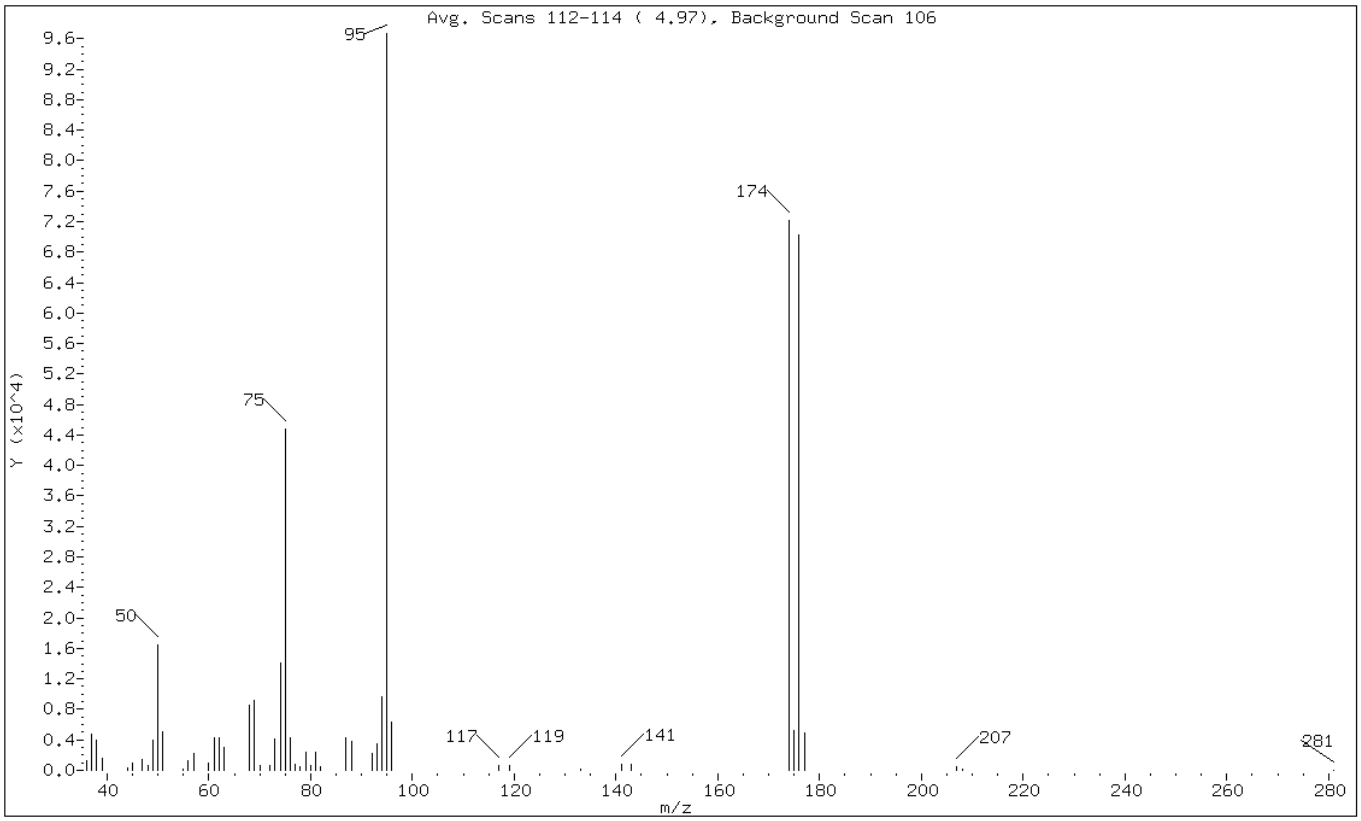
Data File: ms4737.D

Date: 12-OCT-2010 18:48

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB,,1uL Operator: RYERSONJ

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.00
75	30.00 - 60.00% of mass 95	46.27
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	74.69
175	5.00 - 9.00% of mass 174	5.39 (7.22)
176	95.00 - 101.00% of mass 174	72.73 (97.39)
177	5.00 - 9.00% of mass 176	5.02 (6.90)

Data File: ms4737.D

Date: 12-OCT-2010 18:48

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB,,1uL Operator: RYERSONJ

Data File: \\DenSvr03\Public\chem\MSV\GCMS1.i\101210P.b\ms4737.D
Spectrum: Avg. Scans 112-114 (4.97), Background Scan 106
Location of Maximum: 95.00
Number of points: 51

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1299	57.00	2137	77.00	756	117.00	571
37.00	4751	60.00	1003	78.00	398	119.00	568
38.00	3878	61.00	4228	79.00	2433	133.00	167
39.00	1605	62.00	4196	80.00	583	141.00	817
44.00	332	63.00	2962	81.00	2401	143.00	814
45.00	932	68.00	8504	82.00	456	174.00	72208
47.00	1494	69.00	9168	87.00	4265	175.00	5211
48.00	667	70.00	706	88.00	3825	176.00	70320
49.00	3904	72.00	624	92.00	2238	177.00	4851
50.00	16432	73.00	4084	93.00	3415	207.00	478
51.00	5132	74.00	14077	94.00	9670	208.00	105
55.00	172	75.00	44736	95.00	96680	281.00	4
56.00	1187	76.00	4274	96.00	6255		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\ms6295.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 10-NOV-2010 16:58
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : BFB,,1uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\bfb390.m
Meth Date : 23-Sep-2010 20:12 ryersonj Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC088

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.966	4.938	(0.000)	95	116104			0.00- 100.00	100.00
4.966	4.938	(0.000)	50	22544			15.00- 40.00	19.42
4.966	4.938	(0.000)	75	59048			30.00- 60.00	50.86
4.966	4.938	(0.000)	96	8072			5.00- 9.00	6.95
4.966	4.938	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.966	4.938	(0.000)	174	94048			50.00- 0.00	81.00
4.966	4.938	(0.000)	175	7052			5.00- 9.00	7.50
4.966	4.938	(0.000)	176	92216			95.00- 101.00	98.05
4.966	4.938	(0.000)	177	6229			5.00- 9.00	6.75

Data File: ms6295.D

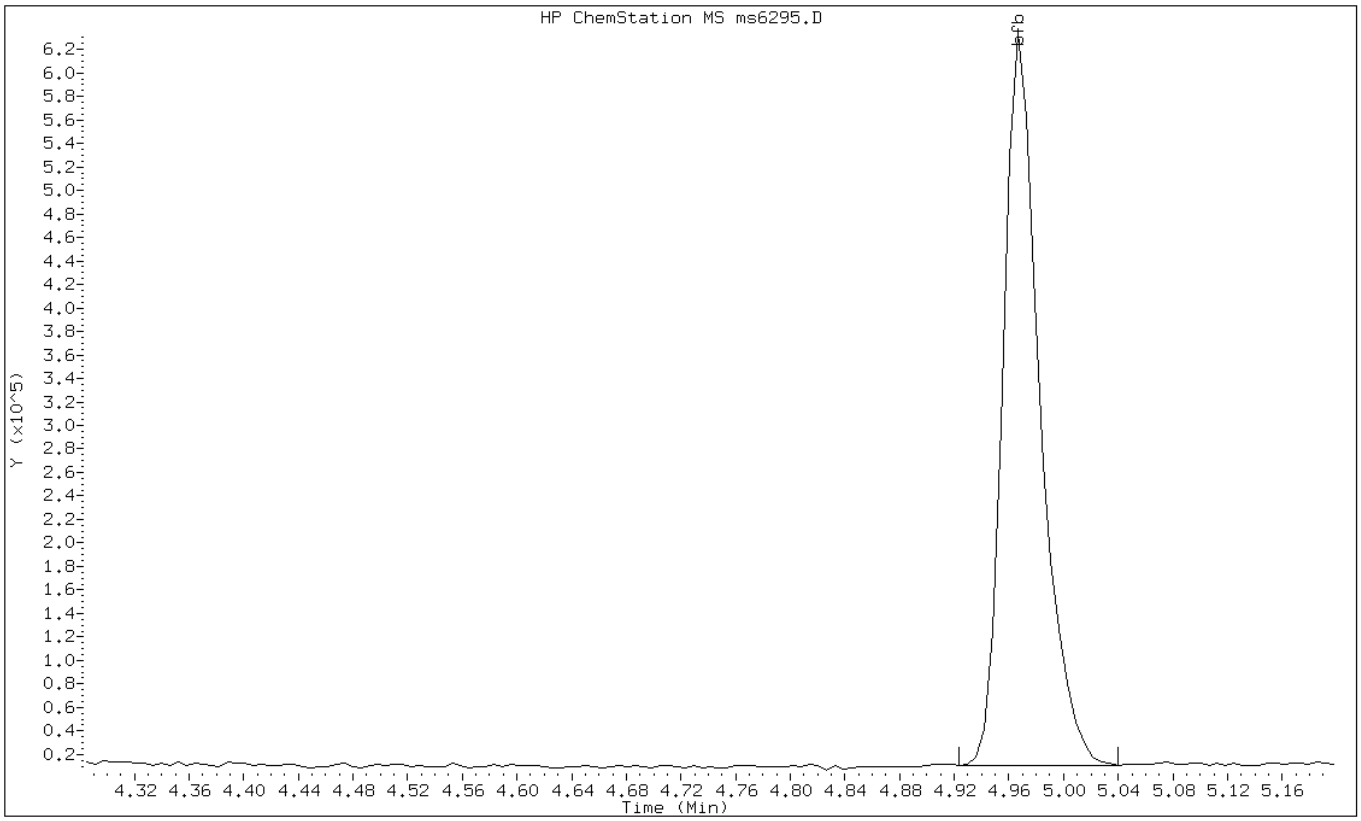
Date: 10-NOV-2010 16:58

Client ID: BFB

Instrument: GCMS1.i

Sample Info: BFB,,1uL

Operator: RYERSONJ



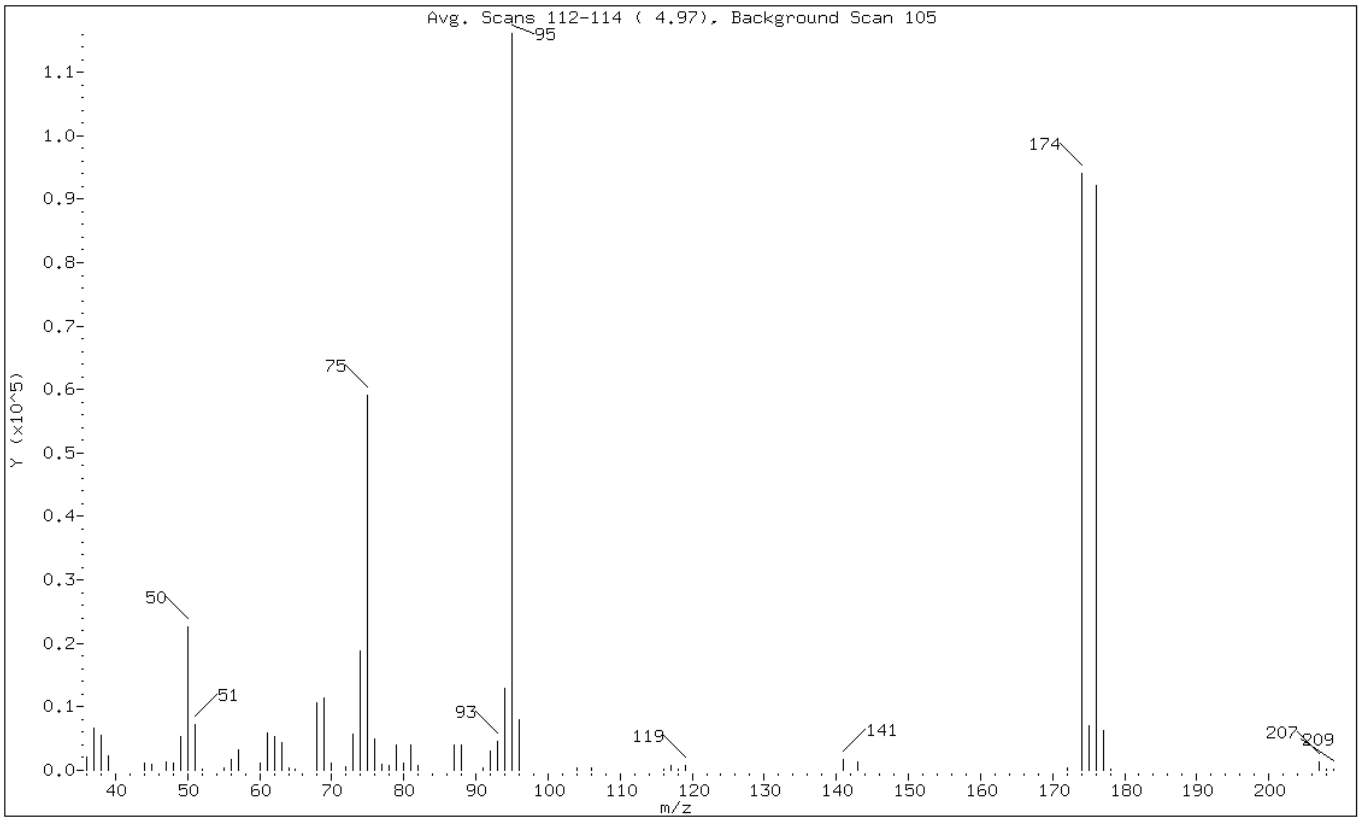
Data File: ms6295.D

Date: 10-NOV-2010 16:58

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB,,1uL Operator: RYERSONJ

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.42
75	30.00 - 60.00% of mass 95	50.86
96	5.00 - 9.00% of mass 95	6.95
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.00
175	5.00 - 9.00% of mass 174	6.07 (7.50)
176	95.00 - 101.00% of mass 174	79.43 (98.05)
177	5.00 - 9.00% of mass 176	5.37 (6.75)

Data File: ms6295.D

Date: 10-NOV-2010 16:58

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB,,1uL Operator: RYERSONJ

Data File: \\DenSvr03\Public\chem\MSV\GCMS1.i\111010I.b\ms6295.D
Spectrum: Avg. Scans 112-114 (4.97), Background Scan 105
Location of Maximum: 95.00
Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2062	61.00	5796	80.00	1176	119.00	809
37.00	6698	62.00	5371	81.00	4052	141.00	1665
38.00	5565	63.00	4365	82.00	808	143.00	1369
39.00	2261	64.00	359	87.00	3992	172.00	417
44.00	1228	65.00	208	88.00	3987	174.00	94048
45.00	921	68.00	10722	91.00	465	175.00	7052
47.00	1402	69.00	11433	92.00	2960	176.00	92216
48.00	1231	70.00	1139	93.00	4650	177.00	6229
49.00	5400	72.00	663	94.00	12832	178.00	182
50.00	22544	73.00	5714	95.00	116104	207.00	1285
51.00	7180	74.00	18824	96.00	8072	208.00	107
52.00	198	75.00	59048	104.00	406	209.00	107
55.00	441	76.00	4994	106.00	447		
56.00	1651	77.00	992	116.00	183		
57.00	3168	78.00	669	117.00	766		
60.00	1211	79.00	3925	118.00	204		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6432.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-NOV-2010 19:02
Operator : RYERSONJ Inst ID: GCMS1.i
Smp Info : BFB,,1uL
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\bfb390.m
Meth Date : 23-Sep-2010 20:12 ryersonj Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC088

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.966	4.938	(0.000)	95	207104			0.00- 100.00	100.00
4.966	4.938	(0.000)	50	44240			15.00- 40.00	21.36
4.966	4.938	(0.000)	75	112176			30.00- 60.00	54.16
4.966	4.938	(0.000)	96	14036			5.00- 9.00	6.78
4.966	4.938	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.966	4.938	(0.000)	174	160256			50.00- 0.00	77.38
4.966	4.938	(0.000)	175	11748			5.00- 9.00	7.33
4.966	4.938	(0.000)	176	152896			95.00- 101.00	95.41
4.966	4.938	(0.000)	177	10743			5.00- 9.00	7.03

Data File: ms6432.D

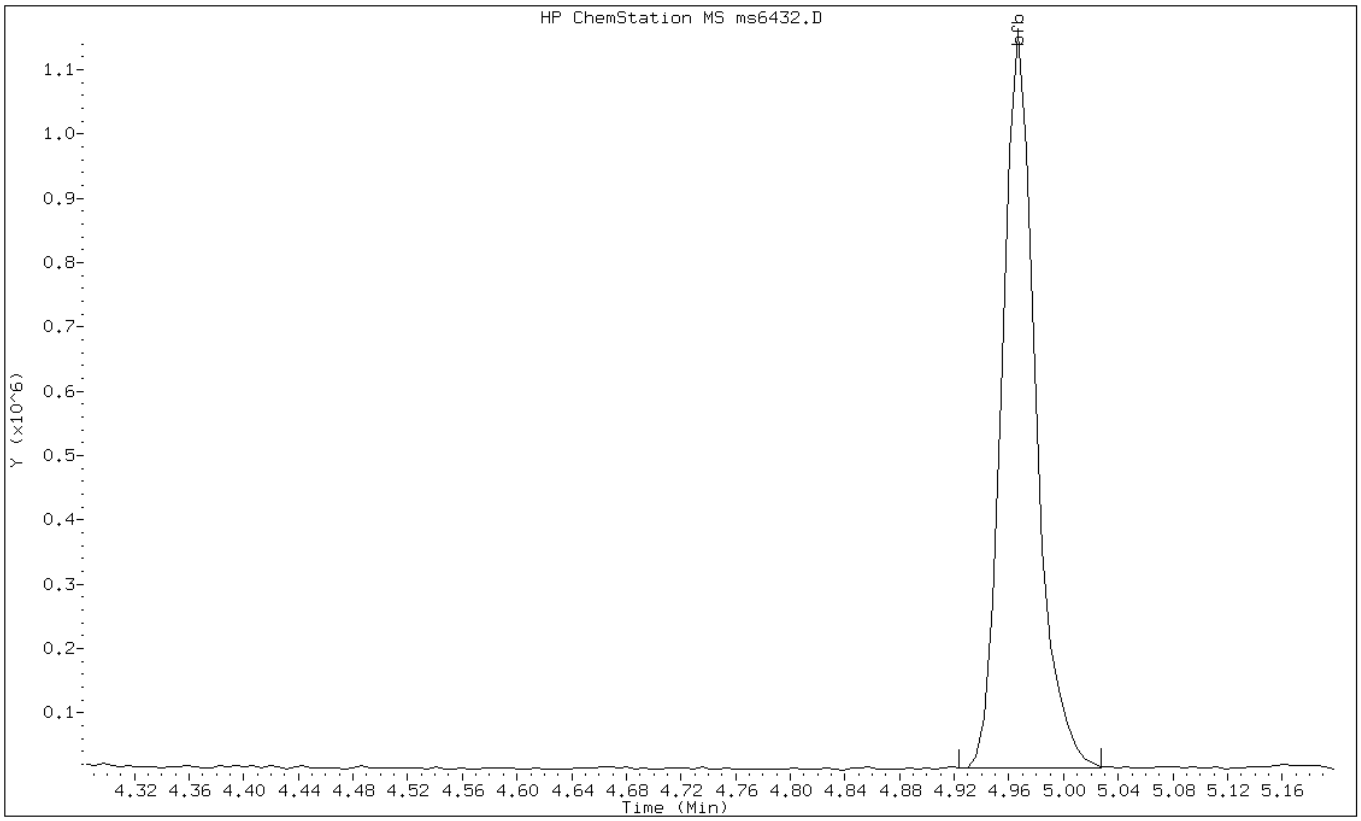
Date: 12-NOV-2010 19:02

Client ID: BFB

Instrument: GCMS1.i

Sample Info: BFB,,1uL

Operator: RYERSONJ



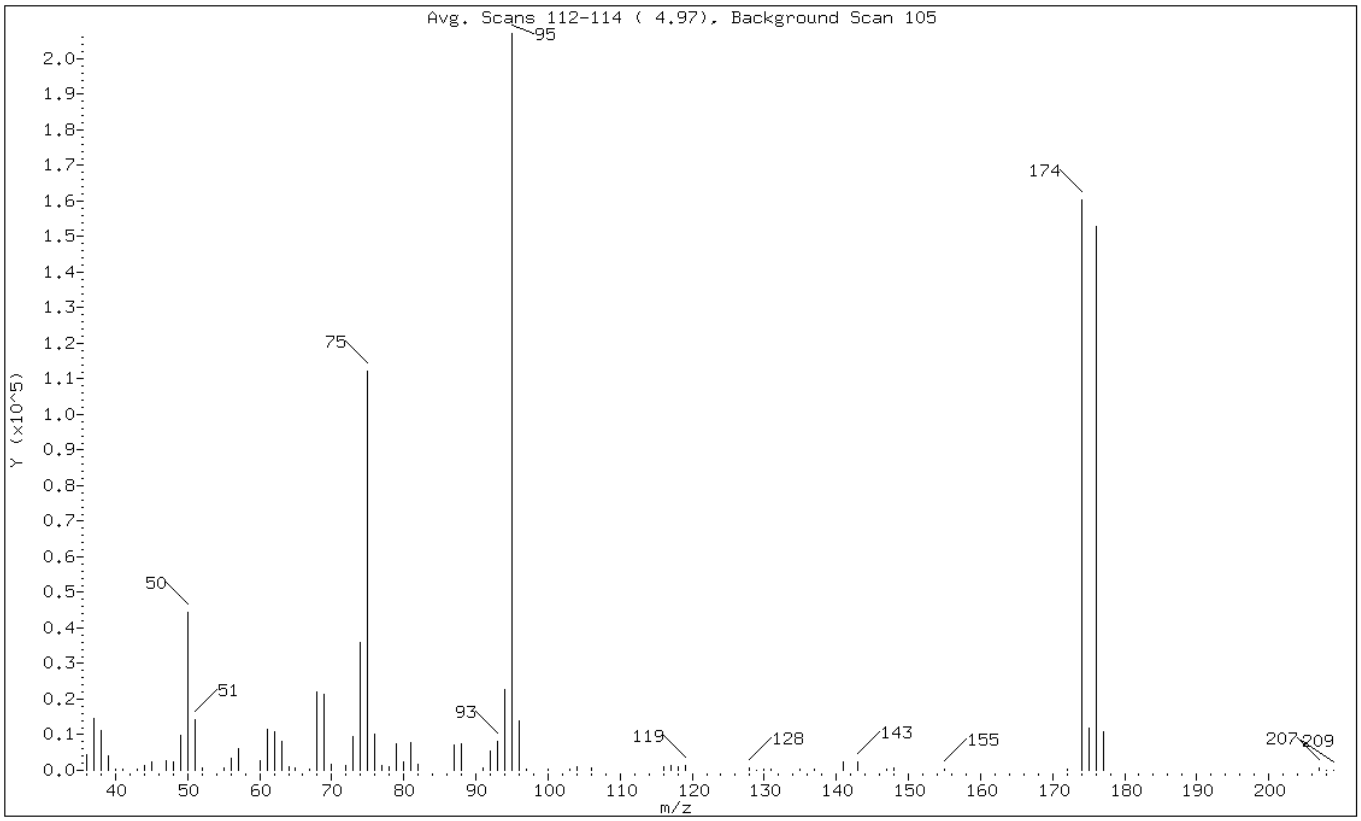
Data File: ms6432.D

Date: 12-NOV-2010 19:02

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB,,1uL Operator: RYERSONJ

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.36
75	30.00 - 60.00% of mass 95	54.16
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.38
175	5.00 - 9.00% of mass 174	5.67 (7.33)
176	95.00 - 101.00% of mass 174	73.83 (95.41)
177	5.00 - 9.00% of mass 176	5.19 (7.03)

Data File: ms6432.D

Date: 12-NOV-2010 19:02

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB,,1uL Operator: RYERSONJ

Data File: \\DenSvr03\Public\chem\MSV\GCMS1.i\111210I.b\ms6432.D
Spectrum: Avg. Scans 112-114 (4.97), Background Scan 105
Location of Maximum: 95.00
Number of points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4355	61.00	11513	82.00	1540	129.00	166
37.00	14614	62.00	10687	87.00	7055	130.00	458
38.00	11224	63.00	8202	88.00	7352	131.00	236
39.00	4172	64.00	990	91.00	824	135.00	473
40.00	335	65.00	560	92.00	5533	137.00	206
41.00	176	67.00	441	93.00	8051	141.00	2450
43.00	212	68.00	22176	94.00	22632	143.00	2517
44.00	1362	69.00	21512	95.00	207104	147.00	208
45.00	2222	70.00	1825	96.00	14036	148.00	598
47.00	2595	72.00	1449	97.00	463	155.00	394
48.00	2412	73.00	9488	100.00	183	172.00	461
49.00	9806	74.00	35840	103.00	176	174.00	160256
50.00	44240	75.00	112176	104.00	1036	175.00	11748
51.00	14402	76.00	10270	106.00	827	176.00	152896
52.00	605	77.00	1472	116.00	870	177.00	10743
55.00	794	78.00	963	117.00	1360	207.00	712
56.00	3434	79.00	7539	118.00	911	208.00	165
57.00	5997	80.00	2269	119.00	1467	209.00	41
60.00	2747	81.00	7729	128.00	774		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7213.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 01-DEC-2010 06:13
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : BFB,,1uL
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\bfb390.m
Meth Date : 01-Dec-2010 07:18 dobranskym Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC096

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
4.972	4.938	(0.000)	95	147648			0.00- 100.00	100.00
4.972	4.938	(0.000)	50	31840			15.00- 40.00	21.56
4.972	4.938	(0.000)	75	79808			30.00- 60.00	54.05
4.972	4.938	(0.000)	96	10012			5.00- 9.00	6.78
4.972	4.938	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.972	4.938	(0.000)	174	107152			50.00- 0.00	72.57
4.972	4.938	(0.000)	175	8041			5.00- 9.00	7.50
4.972	4.938	(0.000)	176	107696			95.00- 101.00	100.51
4.972	4.938	(0.000)	177	6958			5.00- 9.00	6.46

Data File: ms7213.D

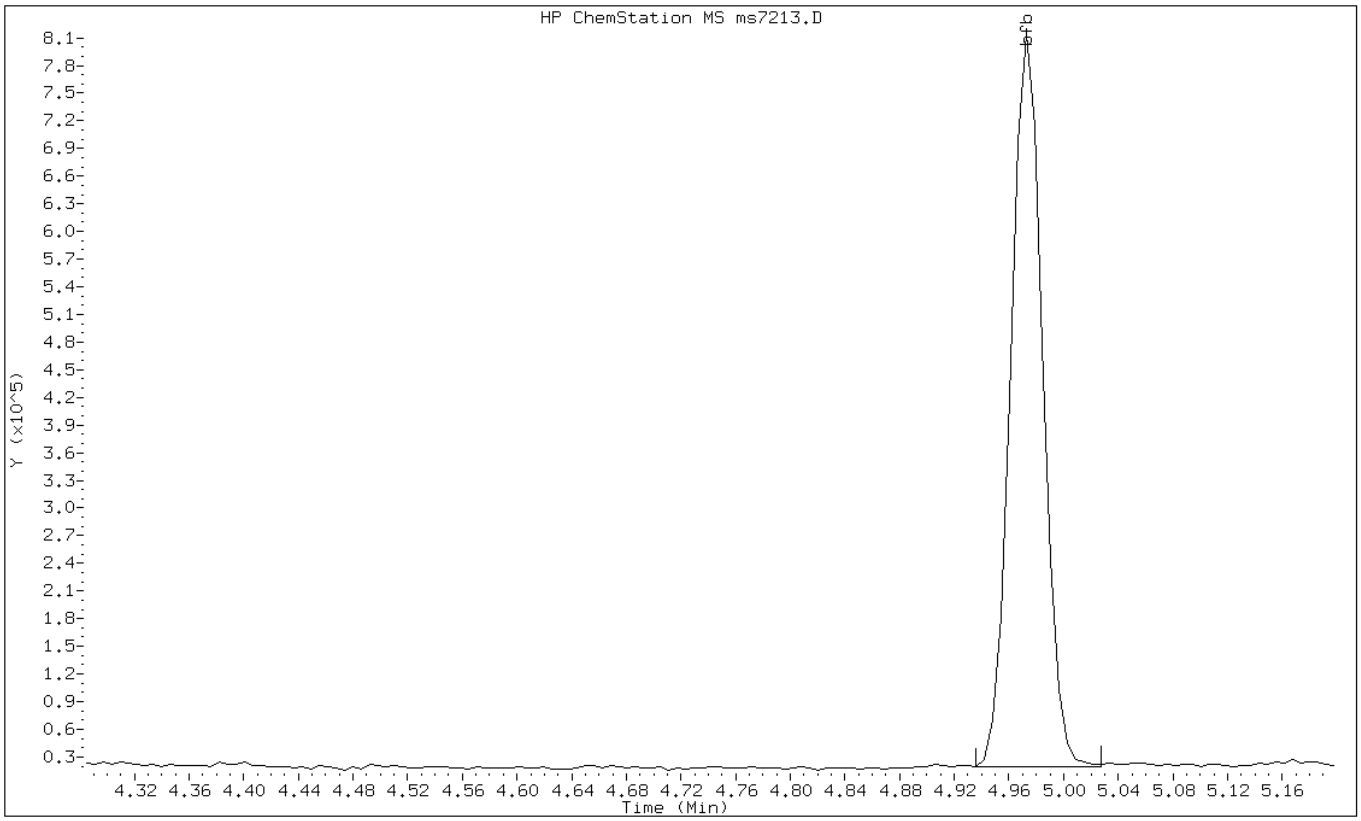
Date: 01-DEC-2010 06:13

Client ID: BFB

Instrument: GCMS1.i

Sample Info: BFB,,1uL

Operator: DOBRANSKYM



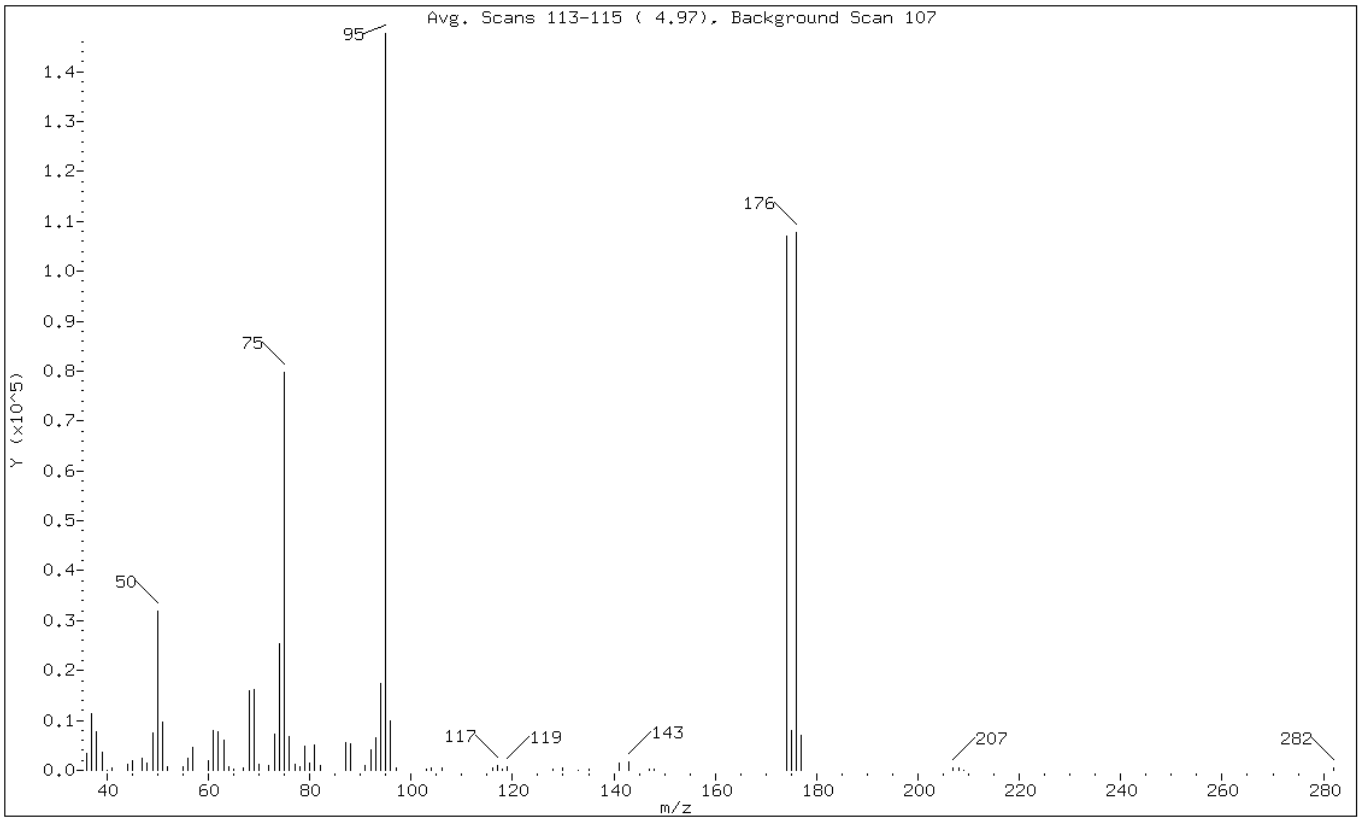
Data File: ms7213.D

Date: 01-DEC-2010 06:13

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB,,1uL Operator: DOBRANSKYM

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.56
75	30.00 - 60.00% of mass 95	54.05
96	5.00 - 9.00% of mass 95	6.78
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	72.57
175	5.00 - 9.00% of mass 174	5.45 (7.50)
176	95.00 - 101.00% of mass 174	72.94 (100.51)
177	5.00 - 9.00% of mass 176	4.71 (6.46)

Data File: ms7213.D

Date: 01-DEC-2010 06:13

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB,,1uL Operator: DOBRANSKYM

Data File: \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7213.D
Spectrum: Avg. Scans 113-115 (4.97), Background Scan 107
Location of Maximum: 95.00
Number of points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3276	61.00	8041	81.00	5047	128.00	178
37.00	11329	62.00	7640	82.00	1033	130.00	438
38.00	7852	63.00	6125	87.00	5587	133.00	16
39.00	3505	64.00	716	88.00	5406	135.00	177
40.00	2	65.00	229	91.00	867	141.00	1510
41.00	436	67.00	406	92.00	4159	143.00	1576
44.00	1121	68.00	15884	93.00	6513	147.00	223
45.00	1897	69.00	16117	94.00	17312	148.00	350
47.00	2314	70.00	1278	95.00	147648	174.00	107152
48.00	1439	72.00	1020	96.00	10012	175.00	8041
49.00	7409	73.00	7241	97.00	541	176.00	107696
50.00	31840	74.00	25352	103.00	255	177.00	6958
51.00	9721	75.00	79808	104.00	482	207.00	582
52.00	614	76.00	6820	106.00	409	208.00	414
55.00	676	77.00	1171	116.00	428	209.00	84
56.00	2466	78.00	747	117.00	1058	282.00	377
57.00	4649	79.00	4953	118.00	221		
60.00	2028	80.00	1360	119.00	827		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-43324/4

Matrix: Water | Lab File ID: ms7217.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 07:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-43324/4

Matrix: Water | Lab File ID: ms7217.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 07:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-43324/4

Matrix: Water Lab File ID: ms7217.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 07:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		78-120
1868-53-7	Dibromofluoromethane (Surr)	92		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
2037-26-5	Toluene-d8 (Surr)	103		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7217.D
Lab Smp Id: MB
Inj Date : 01-DEC-2010 07:24
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : MB,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\8260B-H2OAFC.m
Meth Date : 02-Dec-2010 08:24 target Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC096

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	60 Fluorobenzene	96	8.354	8.354	(1.000)	2198999	12.5000	
*	85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	457115	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.544	12.544	(1.000)	580549	12.5000	
$	49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	471995	10.9954	10.9954
$	55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	498561	12.1188	12.1188
$	73 Toluene-d8	98	9.499	9.499	(0.895)	2579525	12.3417	12.3417
$	96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	712147	11.4376	11.4376
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106	Compound Not Detected.					
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	Compound Not Detected.					
	8 Vinyl Chloride	62	Compound Not Detected.					
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	Compound Not Detected.					
	11 Chloroethane	64	Compound Not Detected.					
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	13 Ethanol	45	Compound Not Detected.					
	15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	17 Ethyl Ether	59	Compound Not Detected.					
	16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
20 Trichlorotrifluoroethane	151	Compound Not Detected.					
21 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	Compound Not Detected.					
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
57 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
56 TAME	73	Compound Not Detected.					
59 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

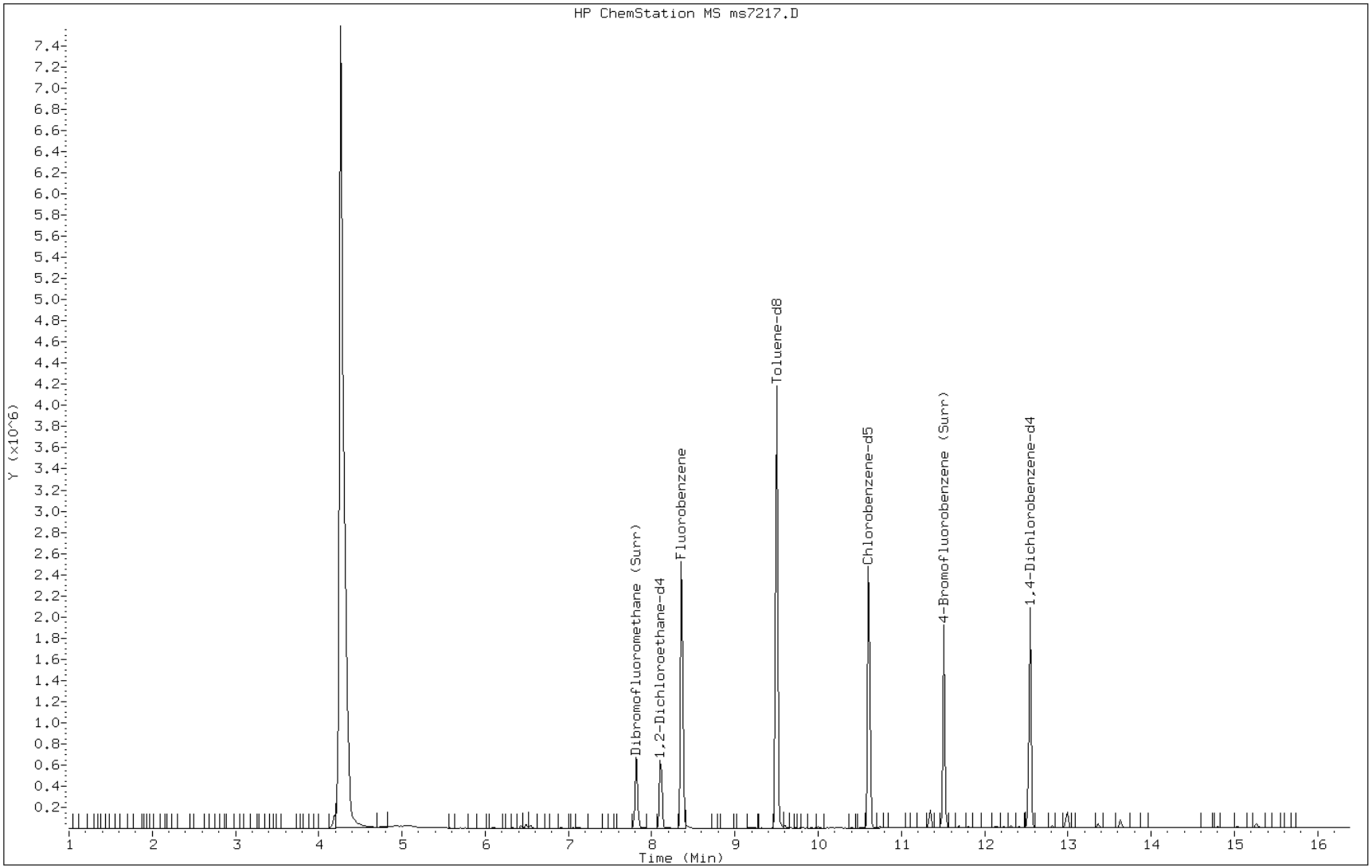
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
88	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
87	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
90	o-Xylene	106	Compound Not Detected.					
91	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	Compound Not Detected.					
100	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
111	1,4-dichlorobenzene	146	Compound Not Detected.					
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
117	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
118	Hexachlorobutadiene	225	Compound Not Detected.					
119	Naphthalene	128	Compound Not Detected.					
120	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: ms7217.D

Date: 01-DEC-2010 07:24

Client ID: Instrument: GCMS1.i

Sample Info: MB,, Operator: DOBRANSKYM



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-43492/5

Matrix: Water | Lab File ID: g2_7869.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 18:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-43492/5

Matrix: Water | Lab File ID: g2_7869.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 18:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.455	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.40	U	1.0	0.40
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-43492/5

Matrix: Water Lab File ID: g2_7869.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 18:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43492 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		78-120
1868-53-7	Dibromofluoromethane (Surr)	82		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-127
2037-26-5	Toluene-d8 (Surr)	98		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7869.D
Lab Smp Id: MB
Inj Date : 01-DEC-2010 18:23
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : MB,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC277

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	1004386	10.0000		
*	85 Chlorobenzene-d5	119	10.126	10.126	(1.000)	194769	10.0000		
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	265092	10.0000		(Q)
$	49 Dibromofluoromethane (Surr)	111	7.294	7.295	(0.928)	183645	8.17706	8.17706	
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	212148	9.98641	9.98641	
$	73 Toluene-d8	98	9.032	9.039	(0.892)	928272	9.83019	9.83019	
$	96 4-Bromofluorobenzene (Surr)	95	11.005	11.006	(1.087)	305088	8.24627	8.24627	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
M	3 1,3-Dichloropropene (total)	100	Compound Not Detected.						
M	4 Trihalomethanes (total)	100	Compound Not Detected.						
	5 dichlorodifluoromethane	85	Compound Not Detected.						
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	7 Chloromethane	50	Compound Not Detected.						
	8 Vinyl Chloride	62	Compound Not Detected.						
	9 Ethylene Oxide	43	Compound Not Detected.						
	10 Bromomethane	94	Compound Not Detected.						
	11 Chloroethane	64	Compound Not Detected.						
	12 Dichlorofluoromethane	67	Compound Not Detected.						
	13 Trichlorofluoromethane	101	Compound Not Detected.						
	14 Ethanol	45	Compound Not Detected.						
	17 Ethyl Ether	59	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	Compound Not Detected.					
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	5.959	5.973	(0.758)	10879	0.45532	0.455319(a)
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	Compound Not Detected.					
33 trans-1,2-Dichloroethene	96	Compound Not Detected.					
34 Hexane	57	Compound Not Detected.					
35 Vinyl acetate	43	Compound Not Detected.					
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	Compound Not Detected.					
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	Compound Not Detected.					
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	Compound Not Detected.					
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	Compound Not Detected.					
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	Compound Not Detected.					
47 Chloroform	83	Compound Not Detected.					
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	Compound Not Detected.					
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	Compound Not Detected.					
54 Carbon Tetrachloride	117	Compound Not Detected.					
56 1,2-Dichloroethane	62	Compound Not Detected.					
58 Benzene	78	Compound Not Detected.					
57 TAME	73	Compound Not Detected.					
60 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	Compound Not Detected.					
62 2-Pentanone	43	Compound Not Detected.					
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	Compound Not Detected.					
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	Compound Not Detected.					
68 Bromodichloromethane	83	Compound Not Detected.					
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	Compound Not Detected.					
72 4-Methyl-2-pentanone	43	Compound Not Detected.					
74 Toluene	91	Compound Not Detected.					
76 trans-1,3-Dichloropropene	75	Compound Not Detected.					
75 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	Compound Not Detected.					
78	2-Hexanone	43	Compound Not Detected.					
79	1,3-Dichloropropane	76	Compound Not Detected.					
80	Tetrachloroethene	164	Compound Not Detected.					
81	Dibromochloromethane	129	Compound Not Detected.					
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	Compound Not Detected.					
84	1-Chlorohexane	91	Compound Not Detected.					
86	Chlorobenzene	112	Compound Not Detected.					
87	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
88	Ethylbenzene	106	Compound Not Detected.					
89	m and p-Xylene	106	Compound Not Detected.					
91	o-Xylene	106	Compound Not Detected.					
90	Styrene	104	Compound Not Detected.					
92	Bromoform	173	Compound Not Detected.					
93	isopropyl benzene	105	Compound Not Detected.					
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	Compound Not Detected.					
97	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	Compound Not Detected.					
101	Bromobenzene	156	Compound Not Detected.					
100	n-Propylbenzene	120	Compound Not Detected.					
103	2-Chlorotoluene	126	Compound Not Detected.					
102	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
104	4-Chlorotoluene	126	Compound Not Detected.					
105	tert-Butylbenzene	119	Compound Not Detected.					
106	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
107	sec-Butylbenzene	134	Compound Not Detected.					
108	4-Isopropyltoluene	119	Compound Not Detected.					
109	1,3-Dichlorobenzene	146	Compound Not Detected.					
112	1,4-dichlorobenzene	146	Compound Not Detected.					
111	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	Compound Not Detected.					
114	1,2-Dichlorobenzene	146	Compound Not Detected.					
115	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
117	Hexachlorobutadiene	225	Compound Not Detected.					
118	Naphthalene	128	Compound Not Detected.					
119	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

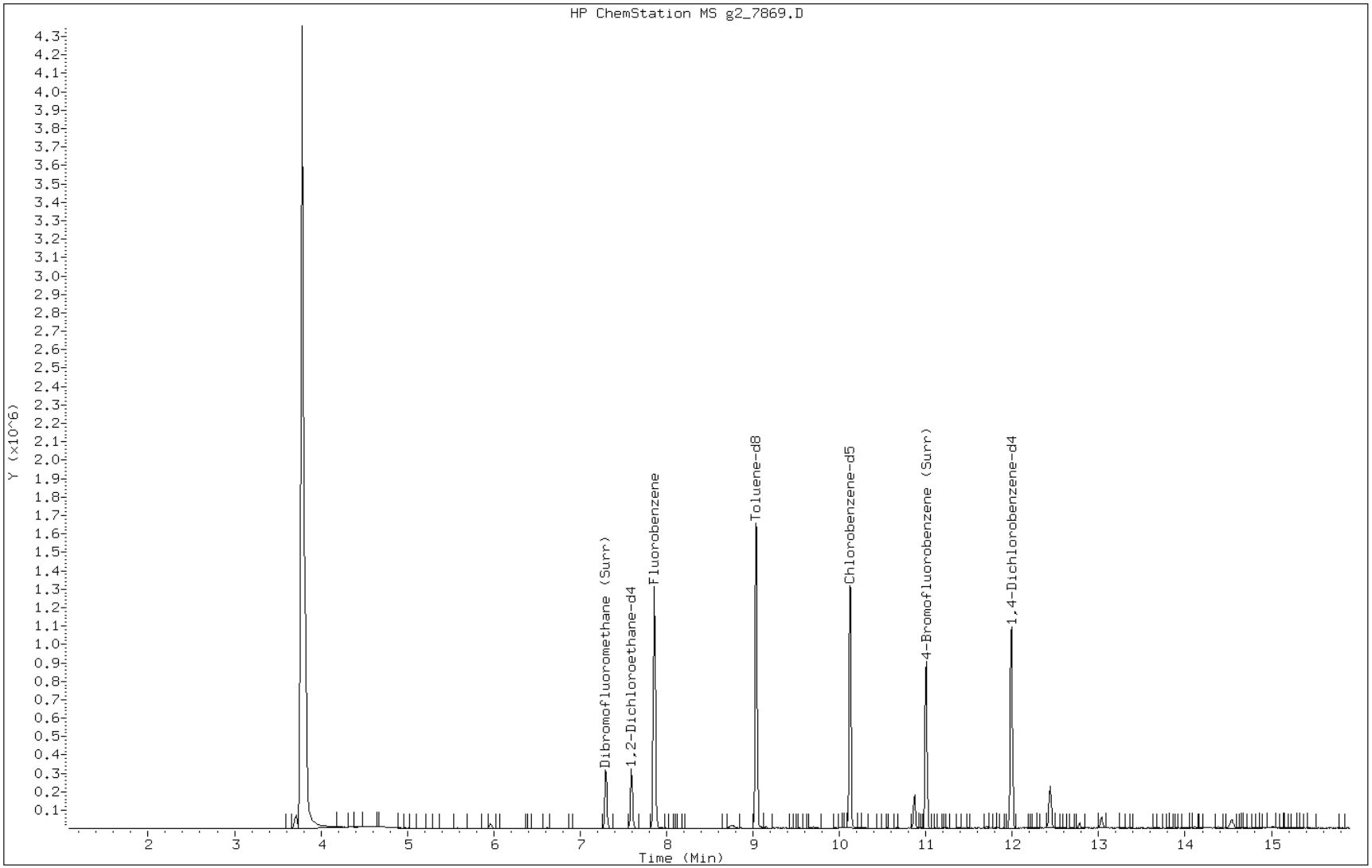
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: g2_7869.D

Date: 01-DEC-2010 18:23

Client ID: Instrument: GCMS2.i

Sample Info: MB,, Operator: ILCZYSZD



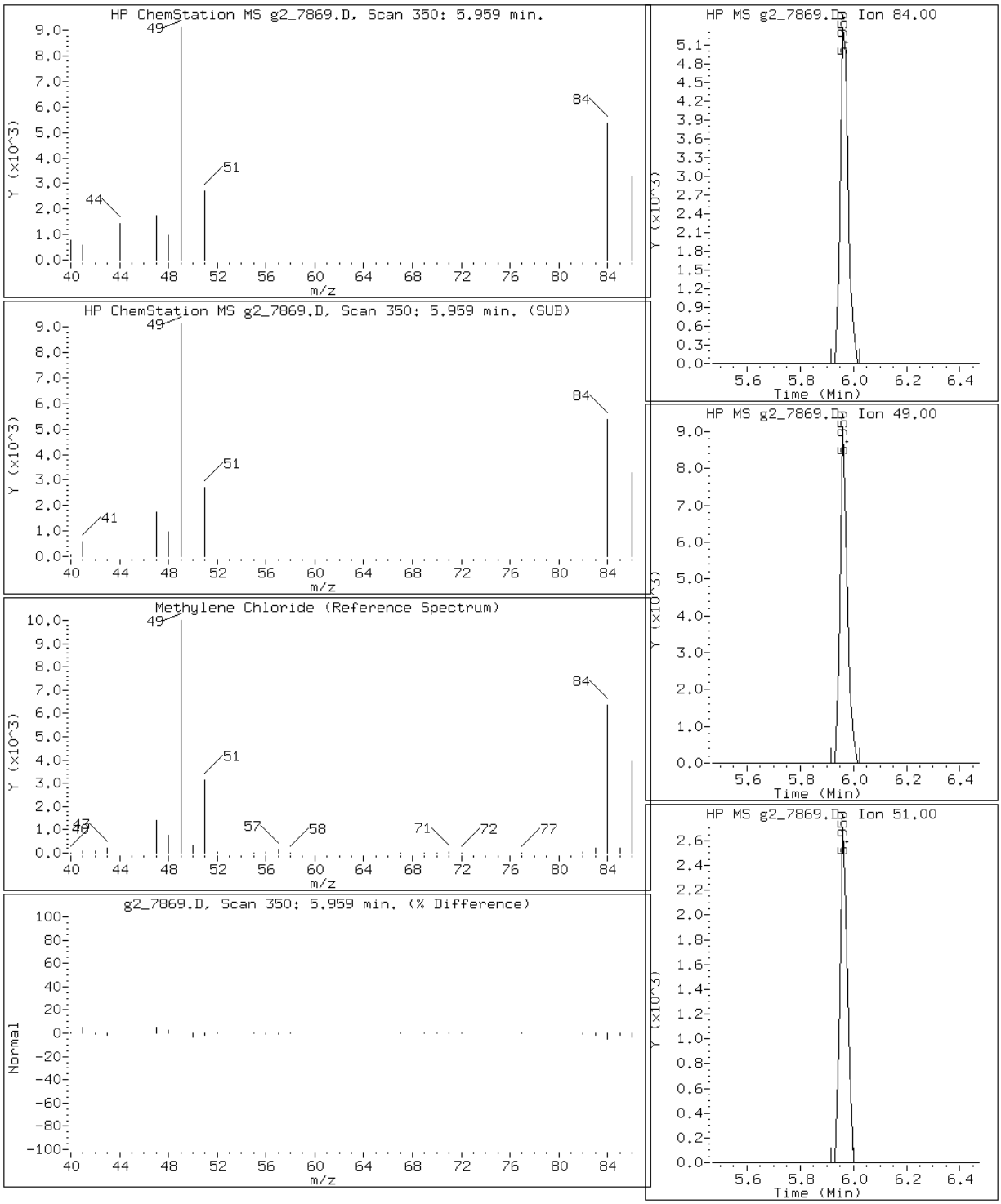
Data File: g2_7869.D

Date: 01-DEC-2010 18:23

Client ID: Instrument: GCMS2.i

Sample Info: MB,, Operator: ILCZYSZD

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-43324/5

Matrix: Water | Lab File ID: ms7218.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 07:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	19.6		10	1.9
71-43-2	Benzene	5.23		1.0	0.16
108-86-1	Bromobenzene	4.54		1.0	0.17
75-27-4	Bromodichloromethane	4.85		1.0	0.17
75-25-2	Bromoform	3.70		1.0	0.19
74-83-9	Bromomethane	4.38		2.0	0.21
78-93-3	2-Butanone (MEK)	21.3		6.0	2.0
56-23-5	Carbon tetrachloride	4.52		1.0	0.19
108-90-7	Chlorobenzene	4.51		1.0	0.17
74-97-5	Bromochloromethane	4.61		1.0	0.10
124-48-1	Dibromochloromethane	4.23		1.0	0.17
75-00-3	Chloroethane	4.89		2.0	0.41
67-66-3	Chloroform	4.98		1.0	0.16
74-87-3	Chloromethane	3.81		2.0	0.30
95-49-8	2-Chlorotoluene	4.60		1.0	0.17
106-43-4	4-Chlorotoluene	4.60		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	5.00		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.79		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.93	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.70		1.0	0.18
74-95-3	Dibromomethane	4.69		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.61		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.62		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.53		1.0	0.16
75-71-8	Dichlorodifluoromethane	4.84		2.0	0.31
75-34-3	1,1-Dichloroethane	5.26		1.0	0.22
107-06-2	1,2-Dichloroethane	4.98		1.0	0.13
75-35-4	1,1-Dichloroethene	5.12		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	10.2		1.0	0.24
78-87-5	1,2-Dichloropropane	5.36		1.0	0.18
142-28-9	1,3-Dichloropropane	4.93		1.0	0.22
594-20-7	2,2-Dichloropropane	4.09		1.0	0.18
563-58-6	1,1-Dichloropropene	5.23		1.0	0.19
100-41-4	Ethylbenzene	4.77		1.0	0.16
87-68-3	Hexachlorobutadiene	4.15		1.0	0.12
591-78-6	2-Hexanone	20.7		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-43324/5

Matrix: Water | Lab File ID: ms7218.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 07:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.63		1.0	0.19
99-87-6	4-Isopropyltoluene	4.98		1.0	0.20
75-09-2	Methylene Chloride	4.87		2.0	0.32
108-10-1	4-Methyl-2-pentanone	23.0		5.0	0.98
1634-04-4	Methyl tert-butyl ether	3.85	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	9.58		2.0	0.34
91-20-3	Naphthalene	3.89		1.0	0.22
104-51-8	n-Butylbenzene	5.30		1.0	0.14
103-65-1	n-Propylbenzene	4.77		1.0	0.16
95-47-6	o-Xylene	4.87		1.0	0.19
135-98-8	sec-Butylbenzene	4.78		1.0	0.17
100-42-5	Styrene	4.61		1.0	0.17
98-06-6	tert-Butylbenzene	5.05		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.17		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.97		1.0	0.21
127-18-4	Tetrachloroethene	4.26		1.0	0.20
108-88-3	Toluene	5.12		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	5.17		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.67		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.08		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.15		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.79		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.94		1.0	0.27
79-01-6	Trichloroethene	4.45		1.0	0.16
75-69-4	Trichlorofluoromethane	4.51		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.02		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.05		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.14		1.0	0.16
75-01-4	Vinyl chloride	4.16		1.0	0.40
1330-20-7	Xylenes, Total	14.5		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-43324/5

Matrix: Water Lab File ID: ms7218.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 07:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
1868-53-7	Dibromofluoromethane (Surr)	95		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
2037-26-5	Toluene-d8 (Surr)	104		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7218.D
Lab Smp Id: LCS
Inj Date : 01-DEC-2010 07:44
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : LCS,,2.5uL
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\8260B-H2OAFC.m
Meth Date : 01-Dec-2010 07:21 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcs-full.sub
Target Version: 4.14
Processing Host: DENPC096

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60 Fluorobenzene	96	8.354	8.354	(1.000)	2178930	12.5000	
* 85 Chlorobenzene-d5	119	10.602	10.616	(1.000)	461871	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.544	12.544	(1.000)	589615	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	484350	11.3871	11.3871
$ 55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	492915	12.0919	12.0919
$ 73 Toluene-d8	98	9.499	9.499	(0.896)	2646296	12.5308	12.5308
$ 96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	774898	12.2541	12.2541
M 1 1,2-Dichloroethene (total)	96				524958	10.1772	10.1772
M 2 Xylene (total)	106				1392664	14.4513	14.4513
5 dichlorodifluoromethane	85	4.569	4.569	(0.547)	349721	4.84241	4.84241
7 Chloromethane	50	4.806	4.820	(0.575)	289426	3.81221	3.81221
8 Vinyl Chloride	62	4.960	4.960	(0.594)	323940	4.15654	4.15654
10 Bromomethane	94	5.365	5.365	(0.642)	179940	4.38351	4.38351
11 Chloroethane	64	5.435	5.435	(0.651)	234221	4.89363	4.89363
14 Trichlorofluoromethane	101	5.686	5.686	(0.681)	502314	4.50718	4.50718
22 Acetone	43	6.105	6.105	(0.731)	112707	19.6295	19.6295
23 1,1-Dichloroethene	96	6.147	6.147	(0.736)	227761	5.11903	5.11903
28 Carbon Disulfide	76	6.440	6.440	(0.771)	1100894	4.97283	4.97283
30 Methylene Chloride	84	6.496	6.496	(0.778)	228317	4.86615	4.86615
32 Methyl t-butyl ether	73	6.678	6.678	(0.799)	238768	3.84681	3.84680(a)
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.806)	274176	5.17263	5.17263
35 Vinyl acetate	43	6.971	6.971	(0.834)	237982	6.79666	6.79666(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
37	1,1-Dichloroethane	63	7.041	7.055	(0.843)	527223	5.26057	5.26057
41	2-Butanone	43	7.418	7.418	(0.888)	138699	21.3268	21.3268
43	cis-1,2-Dichloroethene	96	7.488	7.488	(0.896)	250782	5.00454	5.00454
44	2,2-Dichloropropane	77	7.516	7.516	(0.900)	296176	4.09500	4.09500(a)
46	Bromochloromethane	128	7.683	7.683	(0.920)	71044	4.60708	4.60708
47	Chloroform	83	7.683	7.683	(0.920)	442316	4.98147	4.98147
51	1,1,1-Trichloroethane	97	7.921	7.921	(0.948)	435430	4.79222	4.79222
53	1,1-Dichloropropene	75	8.019	8.019	(0.960)	433766	5.22923	5.22923
54	Carbon Tetrachloride	117	8.060	8.060	(0.965)	360435	4.52137	4.52137
57	1,2-Dichloroethane	62	8.158	8.172	(0.977)	238447	4.97795	4.97794
58	Benzene	78	8.200	8.200	(0.982)	1108664	5.22981	5.22981
61	Trichloroethene	130	8.633	8.633	(1.033)	255533	4.45169	4.45169
62	2-Pentanone	43	8.647	8.647	(1.035)	115084	12.6363	12.6362(R)
64	1,2-Dichloropropane	63	8.801	8.801	(1.053)	233842	5.35986	5.35986
67	Dibromomethane	93	8.898	8.898	(1.065)	67881	4.69489	4.69489
68	Bromodichloromethane	83	8.954	8.954	(1.072)	237413	4.84995	4.84995
70	2-Chloroethyl vinyl ether	63	9.080	9.080	(0.856)	20605	3.71521	3.71521
71	cis-1,3-Dichloropropene	75	9.262	9.262	(0.874)	261073	4.78606	4.78606
72	4-Methyl-2-pentanone	43	9.317	9.317	(0.879)	349530	22.9975	22.9975
74	Toluene	91	9.555	9.555	(1.144)	1187575	5.11700	5.11700
76	trans-1,3-Dichloropropene	75	9.639	9.639	(1.154)	173155	4.66878	4.66878
77	1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	97686	4.93620	4.93620
78	2-Hexanone	43	9.904	9.904	(1.186)	208970	20.7015	20.7015
79	1,3-Dichloropropane	76	9.946	9.946	(0.938)	205853	4.93471	4.93471
80	Tetrachloroethene	164	9.988	9.988	(0.942)	216607	4.26230	4.26230
81	Dibromochloromethane	129	10.155	10.155	(0.958)	96516	4.22995	4.22995
83	1,2-Dibromoethane	107	10.281	10.281	(0.970)	80310	4.70212	4.70212
86	Chlorobenzene	112	10.630	10.630	(1.003)	616247	4.50842	4.50842
88	1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.007)	171339	4.17013	4.17013
87	Ethylbenzene	106	10.672	10.672	(1.007)	388550	4.77036	4.77036
89	m and p-Xylene	106	10.742	10.742	(1.013)	959272	9.57949	9.57949
90	o-Xylene	106	11.077	11.077	(1.045)	433392	4.87182	4.87182
91	Styrene	104	11.077	11.077	(1.045)	542024	4.61409	4.61409
92	Bromoform	173	11.287	11.287	(1.065)	39524	3.69874	3.69874(R)
93	isopropyl benzene	105	11.343	11.343	(0.904)	1367228	5.63088	5.63088
97	1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	100999	4.97379	4.97378
99	1,2,3-Trichloropropane	110	11.622	11.622	(0.927)	27659	5.02201	5.02201
101	Bromobenzene	156	11.692	11.692	(0.932)	204528	4.54007	4.54007
100	n-Propylbenzene	120	11.692	11.692	(0.932)	336895	4.77026	4.77026
103	2-Chlorotoluene	126	11.817	11.817	(0.942)	264576	4.60333	4.60333
102	1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	1056502	5.14207	5.14207
104	4-Chlorotoluene	126	11.901	11.901	(0.949)	249597	4.59894	4.59894
105	tert-Butylbenzene	119	12.125	12.125	(0.967)	1057958	5.04783	5.04783
106	1,2,4-Trimethylbenzene	105	12.153	12.153	(0.969)	1023513	5.05377	5.05376
107	sec-Butylbenzene	134	12.320	12.320	(0.982)	273045	4.78068	4.78068
108	4-Isopropyltoluene	119	12.404	12.418	(0.989)	1141700	4.98448	4.98448
109	1,3-Dichlorobenzene	146	12.502	12.502	(0.997)	443386	4.61729	4.61728
111	1,4-dichlorobenzene	146	12.572	12.572	(1.002)	427564	4.53427	4.53427
113	n-Butylbenzene	91	12.809	12.809	(1.021)	1146326	5.30432	5.30432
114	1,2-Dichlorobenzene	146	12.963	12.963	(1.033)	344849	4.60580	4.60580
115	1,2-Dibromo-3-chloropropane	157	13.773	13.773	(1.098)	8423	3.93067	3.93067
117	1,2,4-Trichlorobenzene	180	14.862	14.862	(1.185)	193949	4.15300	4.15300
118	Hexachlorobutadiene	225	15.030	15.030	(1.198)	195606	4.15331	4.15331
119	Naphthalene	128	15.267	15.267	(1.217)	181790	3.89132	3.89132

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
120 1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	145561	4.08431	4.08430

QC Flag Legend

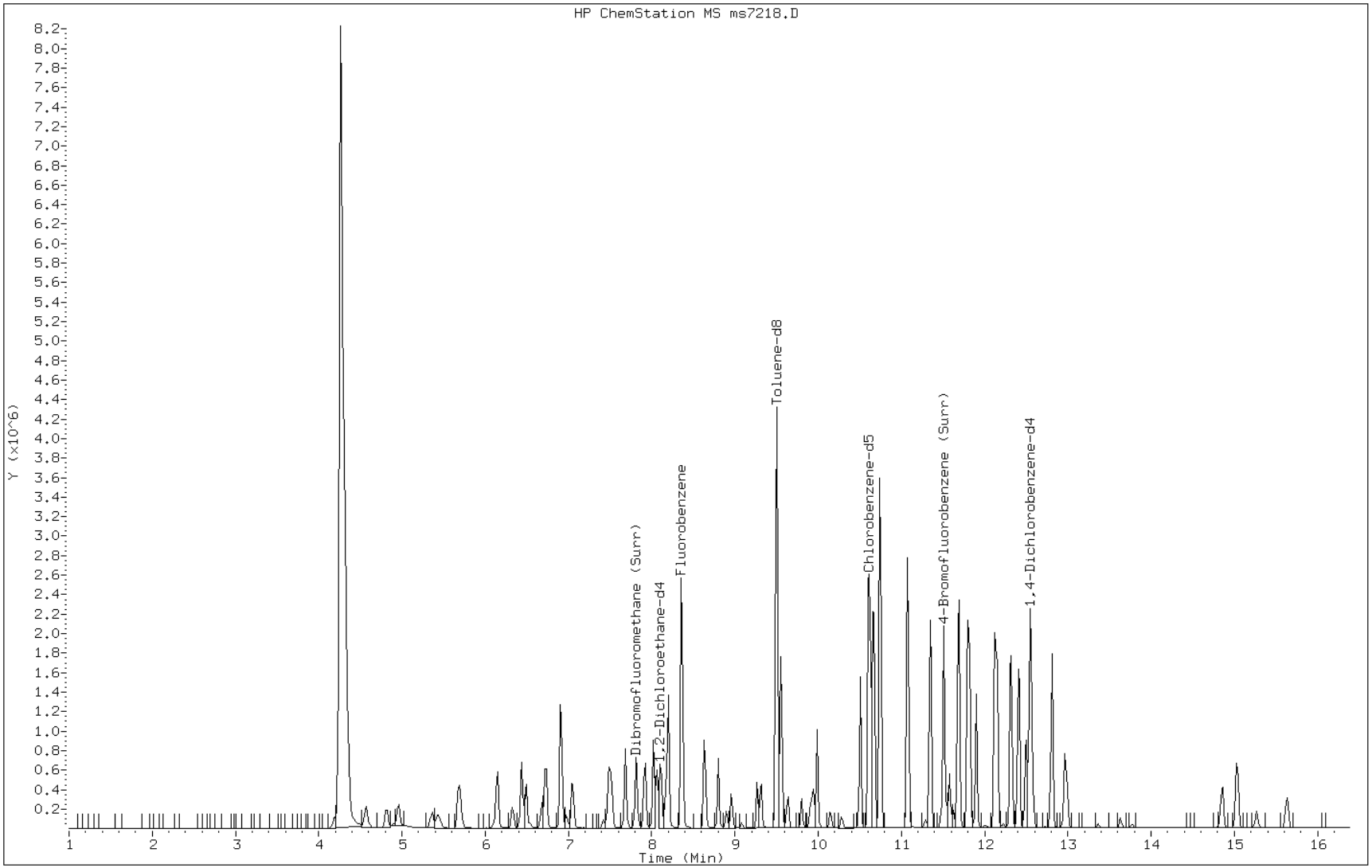
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: ms7218.D

Date: 01-DEC-2010 07:44

Client ID: Instrument: GCMS1.i

Sample Info: LCS,,2.5uL Operator: DOBRANSKYM



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-43492/4

Matrix: Water | Lab File ID: g2_7867.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 17:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	19.6		10	1.9
71-43-2	Benzene	4.50		1.0	0.16
108-86-1	Bromobenzene	4.61		1.0	0.17
75-27-4	Bromodichloromethane	4.12		1.0	0.17
75-25-2	Bromoform	3.96		1.0	0.19
74-83-9	Bromomethane	3.93		2.0	0.21
78-93-3	2-Butanone (MEK)	17.9		6.0	2.0
56-23-5	Carbon tetrachloride	4.46		1.0	0.19
108-90-7	Chlorobenzene	4.54		1.0	0.17
74-97-5	Bromochloromethane	4.46		1.0	0.10
124-48-1	Dibromochloromethane	4.13		1.0	0.17
75-00-3	Chloroethane	4.10		2.0	0.41
67-66-3	Chloroform	4.27		1.0	0.16
74-87-3	Chloromethane	4.27		2.0	0.30
95-49-8	2-Chlorotoluene	4.50		1.0	0.17
106-43-4	4-Chlorotoluene	4.54		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.23		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.23		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.53	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.20		1.0	0.18
74-95-3	Dibromomethane	4.26		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.46		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.56		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.61		1.0	0.16
75-71-8	Dichlorodifluoromethane	4.37		2.0	0.31
75-34-3	1,1-Dichloroethane	4.39		1.0	0.22
107-06-2	1,2-Dichloroethane	4.56		1.0	0.13
75-35-4	1,1-Dichloroethene	4.86		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	8.91		1.0	0.24
78-87-5	1,2-Dichloropropane	4.34		1.0	0.18
142-28-9	1,3-Dichloropropane	4.45		1.0	0.22
594-20-7	2,2-Dichloropropane	4.60		1.0	0.18
563-58-6	1,1-Dichloropropene	4.62		1.0	0.19
100-41-4	Ethylbenzene	4.50		1.0	0.16
87-68-3	Hexachlorobutadiene	4.89		1.0	0.12
591-78-6	2-Hexanone	17.5		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-43492/4

Matrix: Water | Lab File ID: g2_7867.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 17:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	4.96		1.0	0.19
99-87-6	4-Isopropyltoluene	4.50		1.0	0.20
75-09-2	Methylene Chloride	5.08		2.0	0.32
108-10-1	4-Methyl-2-pentanone	18.4		5.0	0.98
1634-04-4	Methyl tert-butyl ether	2.97	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	8.96		2.0	0.34
91-20-3	Naphthalene	3.97		1.0	0.22
104-51-8	n-Butylbenzene	4.43		1.0	0.14
103-65-1	n-Propylbenzene	4.42		1.0	0.16
95-47-6	o-Xylene	4.31		1.0	0.19
135-98-8	sec-Butylbenzene	4.51		1.0	0.17
100-42-5	Styrene	4.26		1.0	0.17
98-06-6	tert-Butylbenzene	4.60		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.13		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.10		1.0	0.21
127-18-4	Tetrachloroethene	4.91		1.0	0.20
108-88-3	Toluene	4.61		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.69		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.18		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.44		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.60		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.47		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.41		1.0	0.27
79-01-6	Trichloroethene	4.63		1.0	0.16
75-69-4	Trichlorofluoromethane	4.18		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.26		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	4.48		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.53		1.0	0.16
75-01-4	Vinyl chloride	4.03		1.0	0.40
1330-20-7	Xylenes, Total	13.3		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-43492/4

Matrix: Water Lab File ID: g2_7867.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 17:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43492 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	84		78-120
1868-53-7	Dibromofluoromethane (Surr)	83		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-127
2037-26-5	Toluene-d8 (Surr)	100		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7867.D
Lab Smp Id: LCS
Inj Date : 01-DEC-2010 17:44
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : LCS,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 17:50 GCMS2.i Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcs-full.sub
Target Version: 4.14
Processing Host: DENPC277

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	1045279	10.0000		
*	85 Chlorobenzene-d5	119	10.126	10.126	(1.000)	199021	10.0000		
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	272471	10.0000		(Q)
$	49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	194107	8.30477	8.30477	
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	216368	9.78660	9.78660	
$	73 Toluene-d8	98	9.039	9.039	(0.893)	966811	10.0196	10.0196	
$	96 4-Bromofluorobenzene (Surr)	95	11.006	11.006	(1.087)	319180	8.44285	8.44285	
M	1 1,2-Dichloroethene (total)	96				274151	8.91317	8.91317	
M	2 Xylene (total)	106				721573	13.2749	13.2749	
	5 dichlorodifluoromethane	85	4.059	4.059	(0.517)	171672	4.37203	4.37202	
	7 Chloromethane	50	4.311	4.297	(0.548)	173587	4.26836	4.26836	
	8 Vinyl Chloride	62	4.450	4.436	(0.566)	179735	4.02911	4.02911	
	10 Bromomethane	94	4.842	4.828	(0.616)	90452	3.92913	3.92913	
	11 Chloroethane	64	4.925	4.911	(0.627)	115577	4.10396	4.10396	
	13 Trichlorofluoromethane	101	5.163	5.163	(0.657)	206753	4.17783	4.17783	
	20 Acetone	43	5.582	5.582	(0.710)	68979	19.6170	19.6170	
	23 1,1-Dichloroethene	96	5.624	5.624	(0.716)	139649	4.86069	4.86069	
	28 Carbon Disulfide	76	5.903	5.903	(0.751)	463155	2.88455	2.88455	
	30 Methylene Chloride	84	5.959	5.973	(0.758)	126337	5.08072	5.08072	
	32 Methyl t-butyl ether	73	6.158	6.158	(0.783)	186993	2.96923	2.96923(a)	
	33 trans-1,2-Dichloroethene	96	6.208	6.208	(0.790)	141521	4.68742	4.68742	
	35 Vinyl acetate	43	6.458	6.465	(0.822)	127077	6.90365	6.90365(R)	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
37	1,1-Dichloroethane	63	6.522	6.529	(0.830)	271218	4.38723	4.38723
41	2-Butanone	43	6.901	6.901	(0.878)	87978	17.9242	17.9242
43	cis-1,2-Dichloroethene	96	6.958	6.966	(0.885)	132630	4.22575	4.22575
44	2,2-Dichloropropane	77	6.994	6.994	(0.890)	154126	4.59533	4.59533(a)
46	Bromochloromethane	128	7.159	7.159	(0.911)	41547	4.45836	4.45836
47	Chloroform	83	7.166	7.173	(0.912)	218632	4.27235	4.27235
51	1,1,1-Trichloroethane	97	7.395	7.402	(0.941)	198919	4.47454	4.47454
53	1,1-Dichloropropene	75	7.502	7.509	(0.955)	224148	4.62443	4.62442
54	Carbon Tetrachloride	117	7.545	7.545	(0.960)	159429	4.46464	4.46464
56	1,2-Dichloroethane	62	7.652	7.659	(0.974)	132921	4.56478	4.56478
58	Benzene	78	7.688	7.688	(0.978)	575318	4.50075	4.50075
61	Trichloroethene	130	8.145	8.153	(1.036)	128226	4.63172	4.63172
62	2-Pentanone	43	8.174	8.174	(1.040)	68171	11.6029	11.6029
64	1,2-Dichloropropane	63	8.324	8.324	(1.059)	129765	4.33763	4.33763
67	Dibromomethane	93	8.424	8.424	(1.072)	42499	4.26490	4.26490
68	Bromodichloromethane	83	8.489	8.496	(1.080)	129047	4.11802	4.11802
70	2-Chloroethyl vinyl ether	63	8.625	8.625	(0.852)	17368	4.20451	4.20451
71	cis-1,3-Dichloropropene	75	8.803	8.810	(1.120)	163803	4.22828	4.22828
72	4-Methyl-2-pentanone	43	8.853	8.860	(1.126)	206922	18.3904	18.3904
74	Toluene	91	9.089	9.089	(1.156)	584554	4.60993	4.60993
76	trans-1,3-Dichloropropene	75	9.175	9.182	(1.167)	116431	4.18042	4.18042
77	1,1,2-Trichloroethane	97	9.332	9.339	(1.187)	57817	4.41258	4.41258
78	2-Hexanone	43	9.447	9.454	(0.933)	136500	17.5194	17.5194
79	1,3-Dichloropropane	76	9.475	9.475	(0.936)	119687	4.44812	4.44812
80	Tetrachloroethene	164	9.511	9.518	(0.939)	96826	4.91108	4.91108
81	Dibromochloromethane	129	9.668	9.676	(0.955)	56600	4.12990	4.12990
83	1,2-Dibromoethane	107	9.797	9.804	(0.968)	50422	4.19571	4.19571
86	Chlorobenzene	112	10.148	10.155	(1.002)	314867	4.54058	4.54058
87	1,1,1,2-Tetrachloroethane	131	10.183	10.183	(1.006)	85458	4.13246	4.13246
88	Ethylbenzene	106	10.183	10.190	(1.006)	199438	4.50201	4.50201
89	m and p-Xylene	106	10.262	10.269	(1.013)	494266	8.96163	8.96163
91	o-Xylene	106	10.584	10.591	(1.045)	227307	4.31328	4.31328
90	Styrene	104	10.584	10.591	(1.045)	338499	4.25646	4.25646
92	Bromoform	173	10.784	10.791	(1.065)	23927	3.96186	3.96186
93	isopropyl benzene	105	10.848	10.855	(0.905)	653528	4.96396	4.96396
97	1,1,2,2-Tetrachloroethane	83	11.048	11.056	(0.921)	60421	4.09800	4.09800
99	1,2,3-Trichloropropane	110	11.120	11.127	(0.927)	15473	4.26415	4.26415
101	Bromobenzene	156	11.177	11.184	(0.932)	106977	4.60877	4.60877
100	n-Propylbenzene	120	11.177	11.184	(0.932)	173526	4.42422	4.42422
103	2-Chlorotoluene	126	11.306	11.313	(0.943)	133781	4.49732	4.49732
102	1,3,5-Trimethylbenzene	105	11.284	11.292	(0.941)	526299	4.52658	4.52658
104	4-Chlorotoluene	126	11.377	11.384	(0.949)	135311	4.54050	4.54050
105	tert-Butylbenzene	119	11.592	11.599	(0.967)	519501	4.60308	4.60308
106	1,2,4-Trimethylbenzene	105	11.620	11.628	(0.969)	521798	4.47743	4.47743
107	sec-Butylbenzene	134	11.778	11.785	(0.982)	135915	4.51190	4.51190
108	4-Isopropyltoluene	119	11.871	11.878	(0.990)	575045	4.50469	4.50469
109	1,3-Dichlorobenzene	146	11.942	11.949	(0.996)	231321	4.56064	4.56064
112	1,4-dichlorobenzene	146	12.014	12.021	(1.002)	227306	4.60659	4.60659
113	n-Butylbenzene	91	12.250	12.257	(1.021)	616220	4.42937	4.42937
114	1,2-Dichlorobenzene	146	12.386	12.393	(1.033)	187880	4.45514	4.45514
115	1,2-Dibromo-3-chloropropane	157	13.143	13.158	(1.096)	6663	3.52922	3.52922
116	1,2,4-Trichlorobenzene	180	14.144	14.159	(1.179)	126719	4.60161	4.60161
117	Hexachlorobutadiene	225	14.309	14.323	(1.193)	88971	4.88990	4.88990
118	Naphthalene	128	14.523	14.538	(1.211)	175300	3.96963	3.96963

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
119 1,2,3-Trichlorobenzene	180	14.860	14.874	(1.239)	95025	4.44186	4.44186

QC Flag Legend

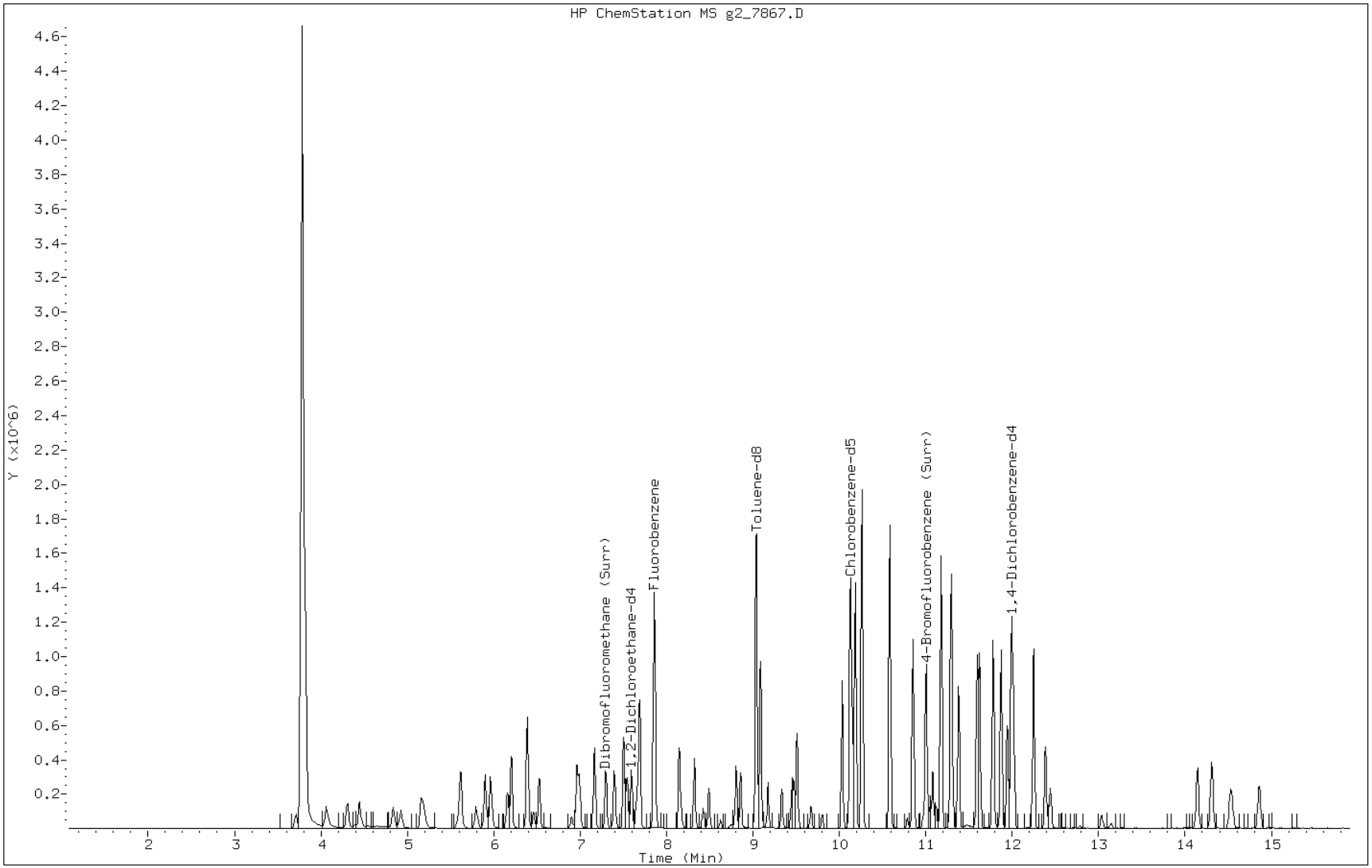
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: g2_7867.D

Date: 01-DEC-2010 17:44

Client ID: Instrument: GCMS2.i

Sample Info: LCS,, Operator: ILCZYSZD



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-21 MS | Lab Sample ID: 280-10064-3 MS

Matrix: Water | Lab File ID: ms7230.D

Analysis Method: 8260B | Date Collected: 11/18/2010 08:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 11:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	17.4		10	1.9
71-43-2	Benzene	4.89		1.0	0.16
108-86-1	Bromobenzene	4.15		1.0	0.17
75-27-4	Bromodichloromethane	4.56		1.0	0.17
75-25-2	Bromoform	3.65		1.0	0.19
74-83-9	Bromomethane	3.73		2.0	0.21
78-93-3	2-Butanone (MEK)	20.5		6.0	2.0
56-23-5	Carbon tetrachloride	3.93		1.0	0.19
108-90-7	Chlorobenzene	4.31		1.0	0.17
74-97-5	Bromochloromethane	4.73		1.0	0.10
124-48-1	Dibromochloromethane	4.19		1.0	0.17
75-00-3	Chloroethane	4.31		2.0	0.41
67-66-3	Chloroform	4.55		1.0	0.16
74-87-3	Chloromethane	2.88		2.0	0.30
95-49-8	2-Chlorotoluene	3.96		1.0	0.17
106-43-4	4-Chlorotoluene	4.15		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.80		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.46		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.80	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.68		1.0	0.18
74-95-3	Dibromomethane	4.66		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.23		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.17		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.19		1.0	0.16
75-71-8	Dichlorodifluoromethane	4.21		2.0	0.31
75-34-3	1,1-Dichloroethane	4.75		1.0	0.22
107-06-2	1,2-Dichloroethane	4.73		1.0	0.13
75-35-4	1,1-Dichloroethene	4.75		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.58		1.0	0.24
78-87-5	1,2-Dichloropropane	5.11		1.0	0.18
142-28-9	1,3-Dichloropropane	4.74		1.0	0.22
594-20-7	2,2-Dichloropropane	3.77		1.0	0.18
563-58-6	1,1-Dichloropropene	4.78		1.0	0.19
100-41-4	Ethylbenzene	4.38		1.0	0.16
87-68-3	Hexachlorobutadiene	3.69		1.0	0.12
591-78-6	2-Hexanone	20.1		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-21 MS | Lab Sample ID: 280-10064-3 MS

Matrix: Water | Lab File ID: ms7230.D

Analysis Method: 8260B | Date Collected: 11/18/2010 08:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 11:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	4.73		1.0	0.19
99-87-6	4-Isopropyltoluene	4.24		1.0	0.20
75-09-2	Methylene Chloride	4.55		2.0	0.32
108-10-1	4-Methyl-2-pentanone	21.8		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.28	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	8.80		2.0	0.34
91-20-3	Naphthalene	4.16		1.0	0.22
104-51-8	n-Butylbenzene	4.39		1.0	0.14
103-65-1	n-Propylbenzene	4.04		1.0	0.16
95-47-6	o-Xylene	4.44		1.0	0.19
135-98-8	sec-Butylbenzene	4.00		1.0	0.17
100-42-5	Styrene	4.49		1.0	0.17
98-06-6	tert-Butylbenzene	4.27		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	3.84		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.57		1.0	0.21
127-18-4	Tetrachloroethene	4.03		1.0	0.20
108-88-3	Toluene	4.84		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.77		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.79		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.22		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.08		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.23		1.0	0.16
79-00-5	1,1,2-Trichloroethane	5.11		1.0	0.27
79-01-6	Trichloroethene	4.31		1.0	0.16
75-69-4	Trichlorofluoromethane	3.69		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.71		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	4.32		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.33		1.0	0.16
75-01-4	Vinyl chloride	3.34		1.0	0.40
1330-20-7	Xylenes, Total	13.2		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-21 MS Lab Sample ID: 280-10064-3 MS

Matrix: Water Lab File ID: ms7230.D

Analysis Method: 8260B Date Collected: 11/18/2010 08:20

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 11:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		78-120
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		70-127
2037-26-5	Toluene-d8 (Surr)	96		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7230.D
Lab Smp Id: 280-10064-d-3 MS
Inj Date : 01-DEC-2010 11:51
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : 280-10064-d-3 MS,,PH<2 FOAMY
Misc Info : ms7229.D
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\8260B-H2OAFC.m
Meth Date : 01-Dec-2010 07:21 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC096

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
*	60 Fluorobenzene	96	8.354	8.354	(1.000)	2456215	12.5000	
*	85 Chlorobenzene-d5	119	10.602	10.616	(1.000)	535339	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.544	12.544	(1.000)	725045	12.5000	
$	49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	521537	10.8772	10.8772
$	55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	522862	11.3786	11.3786
$	73 Toluene-d8	98	9.499	9.499	(0.896)	2820532	11.5229	11.5229
$	96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	850958	10.9433	10.9433
M	1 1,2-Dichloroethene (total)	96				556518	9.57632	9.57632
M	2 Xylene (total)	106				1479481	13.2430	13.2430
	5 dichlorodifluoromethane	85	4.569	4.569	(0.547)	342683	4.20929	4.20929
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	7 Chloromethane	50	4.820	4.820	(0.577)	246296	2.87789	2.87789
	8 Vinyl Chloride	62	4.960	4.960	(0.594)	293652	3.34255	3.34255
	9 Ethylene Oxide	43	Compound Not Detected.					
	10 Bromomethane	94	5.365	5.365	(0.642)	172669	3.73152	3.73152
	11 Chloroethane	64	5.435	5.435	(0.651)	232801	4.31487	4.31486
	12 Dichlorofluoromethane	67	Compound Not Detected.					
	14 Trichlorofluoromethane	101	5.686	5.686	(0.681)	463729	3.69123	3.69123
	13 Ethanol	45	Compound Not Detected.					
	15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
	17 Ethyl Ether	59	Compound Not Detected.					
	16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
18 Acrolein	56	Compound Not Detected.					
22 Acetone	43	6.105	6.105	(0.731)	113922	17.3805	17.3805
20 Trichlorotrifluoroethane	151	Compound Not Detected.					
21 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	6.147	6.147	(0.736)	238373	4.75273	4.75272
24 Iodomethane	142	6.329	6.329	(0.758)	288075	4.72389	4.72389
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	6.440	6.440	(0.771)	1077824	4.31899	4.31899
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	6.496	6.496	(0.778)	243093	4.54923	4.54923
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	6.678	6.678	(0.799)	299317	4.27792	4.27792
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.806)	285177	4.77280	4.77280
34 Hexane	57	6.901	6.901	(0.651)	621407	5.21649	5.21649
35 Vinyl acetate	43	6.971	6.971	(0.834)	230886	5.84959	5.84959
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	7.041	7.055	(0.843)	536835	4.75178	4.75178
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	7.418	7.418	(0.888)	150515	20.5309	20.5309
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	7.488	7.488	(0.896)	271341	4.80352	4.80352
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	7.516	7.516	(0.900)	307706	3.77413	3.77413
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	7.683	7.683	(0.920)	82183	4.72778	4.72778
47 Chloroform	83	7.683	7.683	(0.920)	455778	4.55361	4.55361
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	7.921	7.921	(0.948)	433375	4.23116	4.23116
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	8.019	8.019	(0.960)	447116	4.78167	4.78167
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	353599	3.93488	3.93488(R)
57 1,2-Dichloroethane	62	8.158	8.172	(0.977)	255475	4.73133	4.73133
58 Benzene	78	8.200	8.200	(0.982)	1167656	4.88628	4.88628
56 TAME	73	Compound Not Detected.					
59 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	8.633	8.633	(1.033)	279039	4.31241	4.31241
62 2-Pentanone	43	8.647	8.647	(1.035)	121241	11.8095	11.8094
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	8.801	8.801	(1.053)	251312	5.11001	5.11000
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	8.898	8.898	(1.065)	75921	4.65818	4.65818
68 Bromodichloromethane	83	8.954	8.954	(1.072)	251620	4.55989	4.55989
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	9.262	9.262	(0.874)	281948	4.45940	4.45940
72 4-Methyl-2-pentanone	43	9.317	9.317	(0.879)	384214	21.8103	21.8103
74 Toluene	91	9.555	9.555	(1.144)	1265784	4.83828	4.83828
76 trans-1,3-Dichloropropene	75	9.639	9.639	(1.154)	200358	4.79239	4.79238
75 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	113900	5.10577	5.10577
78	2-Hexanone	43	9.904	9.904	(1.186)	228453	20.1221	20.1221
79	1,3-Dichloropropane	76	9.946	9.946	(0.938)	229242	4.74123	4.74123
80	Tetrachloroethene	164	9.988	9.988	(0.942)	237345	4.02943	4.02943
81	Dibromochloromethane	129	10.155	10.155	(0.958)	110862	4.19190	4.19190
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	10.281	10.281	(0.970)	92574	4.67633	4.67632
84	1-Chlorohexane	91	10.505	10.505	(0.991)	407888	4.54044	4.54044
86	Chlorobenzene	112	10.630	10.630	(1.003)	682614	4.30861	4.30861
88	1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.007)	182969	3.84205	3.84204(R)
87	Ethylbenzene	106	10.672	10.672	(1.007)	413151	4.37628	4.37628
89	m and p-Xylene	106	10.742	10.742	(1.013)	1021223	8.79859	8.79858
90	o-Xylene	106	11.077	11.077	(1.045)	458258	4.44439	4.44439
91	Styrene	104	11.077	11.077	(1.045)	609939	4.49081	4.49081
92	Bromoform	173	11.287	11.287	(1.065)	45170	3.65432	3.65432(R)
93	isopropyl benzene	105	11.343	11.343	(0.904)	1413077	4.73266	4.73266
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	11.482	11.482	(1.083)	59528	75.2954	75.2954
97	1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	114073	4.56832	4.56832
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	11.622	11.622	(0.927)	31911	4.71178	4.71178
101	Bromobenzene	156	11.692	11.692	(0.932)	229979	4.15147	4.15147
100	n-Propylbenzene	120	11.692	11.692	(0.932)	351253	4.04456	4.04456
103	2-Chlorotoluene	126	11.817	11.817	(0.942)	280228	3.96494	3.96494
102	1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	1095164	4.33462	4.33462
104	4-Chlorotoluene	126	11.901	11.901	(0.949)	277067	4.15151	4.15151
105	tert-Butylbenzene	119	12.125	12.125	(0.967)	1099239	4.26512	4.26512
106	1,2,4-Trimethylbenzene	105	12.153	12.153	(0.969)	1075371	4.31801	4.31801
107	sec-Butylbenzene	134	12.320	12.320	(0.982)	281016	4.00120	4.00120
108	4-Isopropyltoluene	119	12.418	12.418	(0.990)	1195511	4.24448	4.24448
109	1,3-Dichlorobenzene	146	12.502	12.502	(0.997)	492627	4.17183	4.17183
111	1,4-dichlorobenzene	146	12.572	12.572	(1.002)	485809	4.18963	4.18963
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	12.809	12.809	(1.021)	1167481	4.39314	4.39314
114	1,2-Dichlorobenzene	146	12.963	12.963	(1.033)	389333	4.22865	4.22864
115	1,2-Dibromo-3-chloropropane	157	13.773	13.773	(1.098)	9940	3.79743	3.79743
117	1,2,4-Trichlorobenzene	180	14.862	14.862	(1.185)	234231	4.07871	4.07871
118	Hexachlorobutadiene	225	15.030	15.030	(1.198)	213933	3.69397	3.69397
119	Naphthalene	128	15.267	15.267	(1.217)	241731	4.15950	4.15950
120	1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	184825	4.21733	4.21733

QC Flag Legend

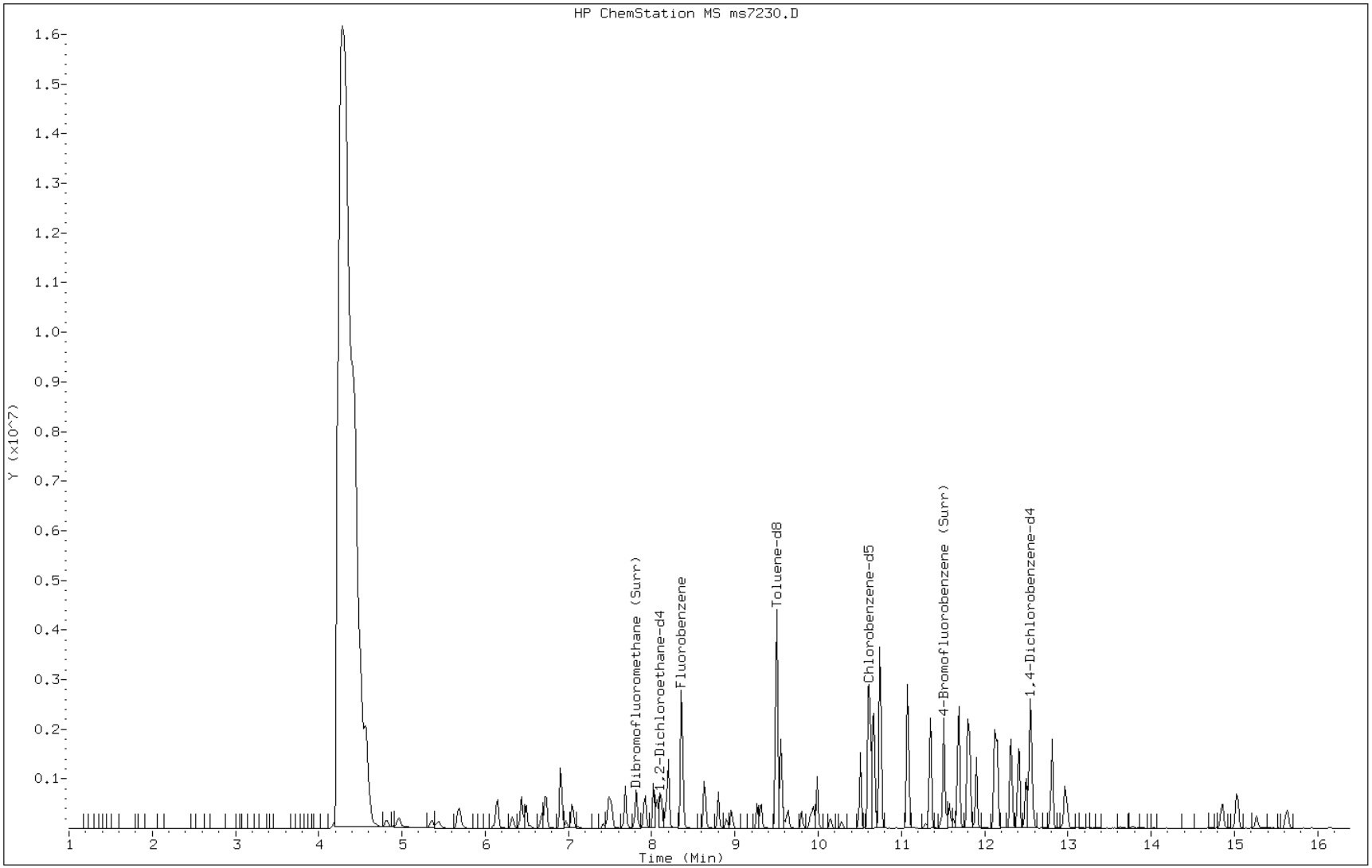
R - Spike/Surrogate failed recovery limits.

Data File: ms7230.D

Date: 01-DEC-2010 11:51

Client ID: Instrument: GCMS1.i

Sample Info: 280-10064-d-3 MS,,PH<2 FOAMY Operator: DOBRANSKYM



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-10042-I-6 MS

Matrix: Water | Lab File ID: g2_7872.D

Analysis Method: 8260B | Date Collected: 11/18/2010 16:25

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 19:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	20.3		10	1.9
71-43-2	Benzene	4.61		1.0	0.16
108-86-1	Bromobenzene	4.60		1.0	0.17
75-27-4	Bromodichloromethane	4.00		1.0	0.17
75-25-2	Bromoform	3.72		1.0	0.19
74-83-9	Bromomethane	4.67		2.0	0.21
78-93-3	2-Butanone (MEK)	16.9		6.0	2.0
56-23-5	Carbon tetrachloride	4.74		1.0	0.19
108-90-7	Chlorobenzene	4.58		1.0	0.17
74-97-5	Bromochloromethane	4.60		1.0	0.10
124-48-1	Dibromochloromethane	3.90		1.0	0.17
75-00-3	Chloroethane	4.80		2.0	0.41
67-66-3	Chloroform	4.47		1.0	0.16
74-87-3	Chloromethane	4.68		2.0	0.30
95-49-8	2-Chlorotoluene	4.63		1.0	0.17
106-43-4	4-Chlorotoluene	4.66		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.50		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	3.99		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.14	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.08		1.0	0.18
74-95-3	Dibromomethane	4.14		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.55		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.65		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.69		1.0	0.16
75-71-8	Dichlorodifluoromethane	5.23		2.0	0.31
75-34-3	1,1-Dichloroethane	4.60		1.0	0.22
107-06-2	1,2-Dichloroethane	4.64		1.0	0.13
75-35-4	1,1-Dichloroethene	5.21		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.45		1.0	0.24
78-87-5	1,2-Dichloropropane	4.28		1.0	0.18
142-28-9	1,3-Dichloropropane	4.15		1.0	0.22
594-20-7	2,2-Dichloropropane	4.97		1.0	0.18
563-58-6	1,1-Dichloropropene	4.77		1.0	0.19
100-41-4	Ethylbenzene	4.55		1.0	0.16
87-68-3	Hexachlorobutadiene	5.23		1.0	0.12
591-78-6	2-Hexanone	16.4		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-10042-I-6 MS

Matrix: Water | Lab File ID: g2_7872.D

Analysis Method: 8260B | Date Collected: 11/18/2010 16:25

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 19:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.09		1.0	0.19
99-87-6	4-Isopropyltoluene	4.64		1.0	0.20
75-09-2	Methylene Chloride	5.03		2.0	0.32
108-10-1	4-Methyl-2-pentanone	17.3		5.0	0.98
1634-04-4	Methyl tert-butyl ether	2.96	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	9.15		2.0	0.34
91-20-3	Naphthalene	3.91		1.0	0.22
104-51-8	n-Butylbenzene	4.68		1.0	0.14
103-65-1	n-Propylbenzene	4.55		1.0	0.16
95-47-6	o-Xylene	4.39		1.0	0.19
135-98-8	sec-Butylbenzene	4.64		1.0	0.17
100-42-5	Styrene	4.26		1.0	0.17
98-06-6	tert-Butylbenzene	4.68		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.21		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.01		1.0	0.21
127-18-4	Tetrachloroethene	5.04		1.0	0.20
108-88-3	Toluene	4.61		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.94		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	3.84		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.58		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.67		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.80		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.10		1.0	0.27
79-01-6	Trichloroethene	4.81		1.0	0.16
75-69-4	Trichlorofluoromethane	4.86		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.14		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	4.55		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.66		1.0	0.16
75-01-4	Vinyl chloride	4.52		1.0	0.40
1330-20-7	Xylenes, Total	13.5		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-10042-I-6 MS

Matrix: Water Lab File ID: g2_7872.D

Analysis Method: 8260B Date Collected: 11/18/2010 16:25

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 19:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43492 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		78-120
1868-53-7	Dibromofluoromethane (Surr)	84		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-127
2037-26-5	Toluene-d8 (Surr)	99		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7872.D
Lab Smp Id: 280-10042-i-6MS
Inj Date : 01-DEC-2010 19:21
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : 280-10042-i-6MS,,pH<2
Misc Info : g2_7871.D
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC277

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	946501	10.0000		
*	85 Chlorobenzene-d5	119	10.119	10.126	(1.000)	178437	10.0000		
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	246219	10.0000		(Q)
$	49 Dibromofluoromethane (Surr)	111	7.294	7.295	(0.928)	177843	8.40300	8.40300	
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	192213	9.60136	9.60136	
$	73 Toluene-d8	98	9.032	9.039	(0.893)	859055	9.92984	9.92984	
$	96 4-Bromofluorobenzene (Surr)	95	10.998	11.006	(1.087)	282777	8.34279	8.34279	
M	1 1,2-Dichloroethene (total)	96				263127	9.44657	9.44657	
M	2 Xylene (total)	106				659931	13.5410	13.5410	
M	3 1,3-Dichloropropene (total)	100				236798	7.83094	7.83094	
M	4 Trihalomethanes (total)	100				388989	16.0976	16.0976	
	5 dichlorodifluoromethane	85	4.059	4.059	(0.517)	185928	5.22925	5.22925	
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	7 Chloromethane	50	4.311	4.297	(0.548)	172206	4.67631	4.67631	
	8 Vinyl Chloride	62	4.450	4.436	(0.566)	182438	4.51651	4.51651	
	9 Ethylene Oxide	43	Compound Not Detected.						
	10 Bromomethane	94	4.827	4.828	(0.614)	97327	4.66899	4.66898	
	11 Chloroethane	64	4.925	4.911	(0.627)	122511	4.80417	4.80417	
	12 Dichlorofluoromethane	67	Compound Not Detected.						
	13 Trichlorofluoromethane	101	5.163	5.163	(0.657)	217826	4.86093	4.86093	
	14 Ethanol	45	Compound Not Detected.						
	17 Ethyl Ether	59	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	5.582	5.582	(0.710)	64251	20.2868	20.2868
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	5.624	5.624	(0.716)	135498	5.20840	5.20840
24 Iodomethane	142	5.791	5.791	(0.737)	160990	5.92809	5.92809
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	5.903	5.903	(0.751)	407292	2.80136	2.80136
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	5.973	5.973	(0.760)	113355	5.03439	5.03439
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	6.158	6.158	(0.783)	168731	2.95887	2.95886(a)
33 trans-1,2-Dichloroethene	96	6.208	6.208	(0.790)	135134	4.94297	4.94297
34 Hexane	57	6.386	6.387	(0.631)	249421	4.60562	4.60562
35 Vinyl acetate	43	6.465	6.465	(0.823)	113718	6.82264	6.82264(R)
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	6.529	6.529	(0.831)	257678	4.60320	4.60320
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	6.901	6.901	(0.878)	74934	16.8599	16.8599
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	6.958	6.966	(0.885)	127993	4.50360	4.50360
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	6.994	6.994	(0.890)	151081	4.97465	4.97464(a)
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	7.159	7.159	(0.911)	38774	4.59502	4.59502
47 Chloroform	83	7.166	7.173	(0.912)	207325	4.47420	4.47420
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	7.395	7.402	(0.941)	193222	4.79999	4.79999
50 Isobutanol	41	Compound Not Detected.					
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	7.502	7.509	(0.955)	209378	4.77051	4.77051
54 Carbon Tetrachloride	117	7.545	7.545	(0.960)	153284	4.74053	4.74053
56 1,2-Dichloroethane	62	7.652	7.659	(0.974)	122391	4.64180	4.64180
58 Benzene	78	7.688	7.688	(0.978)	533329	4.60769	4.60769
57 TAME	73	Compound Not Detected.					
60 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	8.145	8.153	(1.036)	120571	4.80972	4.80972
62 2-Pentanone	43	8.174	8.174	(1.040)	55359	10.4056	10.4056
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	8.324	8.324	(1.059)	115814	4.27530	4.27530
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	8.424	8.424	(1.072)	37392	4.14401	4.14400
68 Bromodichloromethane	83	8.489	8.496	(1.080)	113626	4.00432	4.00432
69 2-nitropropane	41	Compound Not Detected.					
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	8.803	8.810	(1.120)	139844	3.98654	3.98654
72 4-Methyl-2-pentanone	43	8.853	8.860	(1.126)	176576	17.3311	17.3311
74 Toluene	91	9.089	9.089	(1.156)	529217	4.60908	4.60908
76 trans-1,3-Dichloropropene	75	9.175	9.182	(1.167)	96954	3.84440	3.84440
75 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	9.332	9.339	(1.187)	48618	4.09775	4.09775
78	2-Hexanone	43	9.447	9.454	(0.934)	114500	16.3910	16.3910
79	1,3-Dichloropropane	76	9.468	9.475	(0.936)	100186	4.15289	4.15289
80	Tetrachloroethene	164	9.511	9.518	(0.940)	89007	5.03527	5.03527
81	Dibromochloromethane	129	9.668	9.676	(0.955)	47884	3.89697	3.89697
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	9.797	9.804	(0.968)	43984	4.08220	4.08220
84	1-Chlorohexane	91	10.033	10.040	(0.992)	183968	4.69023	4.69023
86	Chlorobenzene	112	10.147	10.155	(1.003)	284605	4.57763	4.57763
87	1,1,1,2-Tetrachloroethane	131	10.176	10.183	(1.006)	78148	4.21490	4.21490
88	Ethylbenzene	106	10.183	10.190	(1.006)	180812	4.55239	4.55239
89	m and p-Xylene	106	10.262	10.269	(1.014)	452433	9.14944	9.14944
91	o-Xylene	106	10.584	10.591	(1.046)	207498	4.39159	4.39159
90	Styrene	104	10.584	10.591	(1.046)	303678	4.25911	4.25911
92	Bromoform	173	10.784	10.791	(1.066)	20154	3.72208	3.72208
93	isopropyl benzene	105	10.848	10.855	(0.905)	605605	5.09040	5.09040
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	10.970	10.977	(1.084)	31222	77.7291	77.7290
97	1,1,2,2-Tetrachloroethane	83	11.048	11.056	(0.921)	53404	4.00827	4.00827
98	t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	68568	21.6831	21.6831
99	1,2,3-Trichloropropane	110	11.120	11.127	(0.927)	13561	4.13569	4.13569
101	Bromobenzene	156	11.177	11.184	(0.932)	96530	4.60209	4.60209
100	n-Propylbenzene	120	11.177	11.184	(0.932)	161226	4.54890	4.54890
103	2-Chlorotoluene	126	11.299	11.313	(0.942)	124548	4.63334	4.63334
102	1,3,5-Trimethylbenzene	105	11.284	11.292	(0.941)	489869	4.66248	4.66248
104	4-Chlorotoluene	126	11.377	11.384	(0.949)	125580	4.66326	4.66326
105	tert-Butylbenzene	119	11.592	11.599	(0.967)	477636	4.68336	4.68336
106	1,2,4-Trimethylbenzene	105	11.620	11.628	(0.969)	479523	4.55339	4.55339
107	sec-Butylbenzene	134	11.778	11.785	(0.982)	126353	4.64170	4.64170
108	4-Isopropyltoluene	119	11.871	11.878	(0.990)	534878	4.63679	4.63678
109	1,3-Dichlorobenzene	146	11.942	11.949	(0.996)	213125	4.64990	4.64990
112	1,4-dichlorobenzene	146	12.014	12.021	(1.002)	208947	4.68602	4.68602
111	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	12.242	12.257	(1.021)	587745	4.67513	4.67513
114	1,2-Dichlorobenzene	146	12.378	12.393	(1.032)	173464	4.55185	4.55185
115	1,2-Dibromo-3-chloropropane	157	13.143	13.158	(1.096)	5352	3.13706	3.13706(R)
116	1,2,4-Trichlorobenzene	180	14.137	14.159	(1.179)	116209	4.66989	4.66989
117	Hexachlorobutadiene	225	14.309	14.323	(1.193)	85981	5.22941	5.22941
118	Naphthalene	128	14.516	14.538	(1.210)	155981	3.90876	3.90876
119	1,2,3-Trichlorobenzene	180	14.852	14.874	(1.238)	88579	4.58202	4.58202

QC Flag Legend

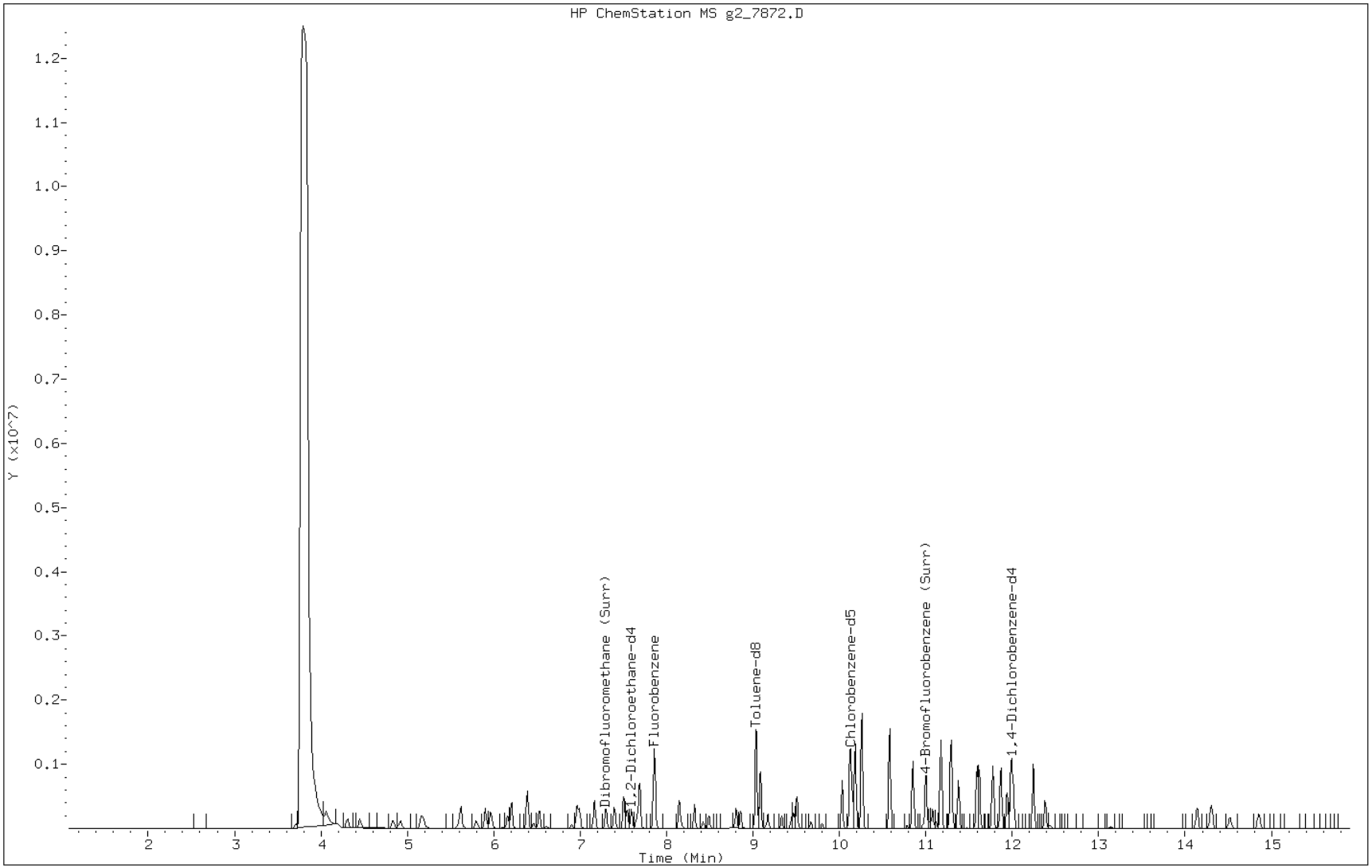
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: g2_7872.D

Date: 01-DEC-2010 19:21

Client ID: Instrument: GCMS2.i

Sample Info: 280-10042-i-6MS,,pH<2 Operator: ILCZYSZD



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-21 MSD | Lab Sample ID: 280-10064-3 MSD

Matrix: Water | Lab File ID: ms7231.D

Analysis Method: 8260B | Date Collected: 11/18/2010 08:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 12:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	19.4		10	1.9
71-43-2	Benzene	5.02		1.0	0.16
108-86-1	Bromobenzene	4.41		1.0	0.17
75-27-4	Bromodichloromethane	4.69		1.0	0.17
75-25-2	Bromoform	3.83		1.0	0.19
74-83-9	Bromomethane	4.03		2.0	0.21
78-93-3	2-Butanone (MEK)	22.5		6.0	2.0
56-23-5	Carbon tetrachloride	4.09		1.0	0.19
108-90-7	Chlorobenzene	4.41		1.0	0.17
74-97-5	Bromochloromethane	4.85		1.0	0.10
124-48-1	Dibromochloromethane	4.33		1.0	0.17
75-00-3	Chloroethane	4.63		2.0	0.41
67-66-3	Chloroform	4.76		1.0	0.16
74-87-3	Chloromethane	3.05		2.0	0.30
95-49-8	2-Chlorotoluene	4.14		1.0	0.17
106-43-4	4-Chlorotoluene	4.30		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.99		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.72		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.99	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.82		1.0	0.18
74-95-3	Dibromomethane	4.83		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.48		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.34		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.41		1.0	0.16
75-71-8	Dichlorodifluoromethane	4.53		2.0	0.31
75-34-3	1,1-Dichloroethane	5.00		1.0	0.22
107-06-2	1,2-Dichloroethane	4.88		1.0	0.13
75-35-4	1,1-Dichloroethene	4.90		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.97		1.0	0.24
78-87-5	1,2-Dichloropropane	5.26		1.0	0.18
142-28-9	1,3-Dichloropropane	5.09		1.0	0.22
594-20-7	2,2-Dichloropropane	3.80		1.0	0.18
563-58-6	1,1-Dichloropropene	4.93		1.0	0.19
100-41-4	Ethylbenzene	4.54		1.0	0.16
87-68-3	Hexachlorobutadiene	3.80		1.0	0.12
591-78-6	2-Hexanone	22.6		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-21 MSD | Lab Sample ID: 280-10064-3 MSD

Matrix: Water | Lab File ID: ms7231.D

Analysis Method: 8260B | Date Collected: 11/18/2010 08:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 12:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	4.94		1.0	0.19
99-87-6	4-Isopropyltoluene	4.41		1.0	0.20
75-09-2	Methylene Chloride	4.68		2.0	0.32
108-10-1	4-Methyl-2-pentanone	24.4		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.37	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	9.05		2.0	0.34
91-20-3	Naphthalene	4.38		1.0	0.22
104-51-8	n-Butylbenzene	4.51		1.0	0.14
103-65-1	n-Propylbenzene	4.25		1.0	0.16
95-47-6	o-Xylene	4.59		1.0	0.19
135-98-8	sec-Butylbenzene	4.23		1.0	0.17
100-42-5	Styrene	4.53		1.0	0.17
98-06-6	tert-Butylbenzene	4.48		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.06		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.84		1.0	0.21
127-18-4	Tetrachloroethene	4.17		1.0	0.20
108-88-3	Toluene	4.94		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.98		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.81		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.47		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.38		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.39		1.0	0.16
79-00-5	1,1,2-Trichloroethane	5.22		1.0	0.27
79-01-6	Trichloroethene	4.43		1.0	0.16
75-69-4	Trichlorofluoromethane	3.93		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.97		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	4.53		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.54		1.0	0.16
75-01-4	Vinyl chloride	3.61		1.0	0.40
1330-20-7	Xylenes, Total	13.6		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: MW-21 MSD Lab Sample ID: 280-10064-3 MSD

Matrix: Water Lab File ID: ms7231.D

Analysis Method: 8260B Date Collected: 11/18/2010 08:20

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 12:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		78-120
1868-53-7	Dibromofluoromethane (Surr)	98		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-127
2037-26-5	Toluene-d8 (Surr)	103		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\ms7231.D
Lab Smp Id: 280-10064-d-3 MSD
Inj Date : 01-DEC-2010 12:11
Operator : DOBRANSKYM Inst ID: GCMS1.i
Smp Info : 280-10064-d-3 MSD,,PH<2 FOAMY
Misc Info : ms7230.D
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\120110A.b\8260B-H2OAFC.m
Meth Date : 01-Dec-2010 07:21 GCMS1.i Quant Type: ISTD
Cal Date : 10-NOV-2010 20:04 Cal File: ms6304.D
Als bottle: 2 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC096

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 60 Fluorobenzene	96	8.354	8.354	(1.000)	2359445	12.5000	
* 85 Chlorobenzene-d5	119	10.616	10.616	(1.000)	507819	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.543	12.544	(1.000)	676956	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	540719	11.7398	11.7398
$ 55 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	530106	12.0094	12.0094
$ 73 Toluene-d8	98	9.499	9.499	(0.895)	2871060	12.3650	12.3650
$ 96 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	864451	11.9065	11.9065
M 1 1,2-Dichloroethene (total)	96				556613	9.97021	9.97020
M 2 Xylene (total)	106				1445812	13.6446	13.6446
5 dichlorodifluoromethane	85	4.569	4.569	(0.547)	354276	4.53017	4.53017
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
7 Chloromethane	50	4.820	4.820	(0.577)	250707	3.04958	3.04958
8 Vinyl Chloride	62	4.960	4.960	(0.594)	304806	3.61181	3.61181
9 Ethylene Oxide	43	Compound Not Detected.					
10 Bromomethane	94	5.365	5.365	(0.642)	179342	4.03469	4.03468
11 Chloroethane	64	5.449	5.435	(0.652)	239978	4.63031	4.63031
12 Dichlorofluoromethane	67	Compound Not Detected.					
14 Trichlorofluoromethane	101	5.686	5.686	(0.681)	474185	3.92926	3.92926
13 Ethanol	45	Compound Not Detected.					
15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18 Acrolein	56	Compound Not Detected.					
22 Acetone	43	6.105	6.105	(0.731)	120784	19.4047	19.4047
20 Trichlorotrifluoroethane	151	Compound Not Detected.					
21 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	6.147	6.147	(0.736)	235943	4.89722	4.89722
24 Iodomethane	142	6.329	6.329	(0.758)	287084	4.90072	4.90072
25 Acetonitrile	41	Compound Not Detected.					
26 Methyl Acetate	43	Compound Not Detected.					
28 Carbon Disulfide	76	6.440	6.440	(0.771)	1150951	4.80118	4.80118
27 Allyl Chloride	41	Compound Not Detected.					
29 tert-Butyl alcohol	59	Compound Not Detected.					
30 Methylene Chloride	84	6.496	6.496	(0.778)	239176	4.68002	4.68002
31 Acrylonitrile	53	Compound Not Detected.					
32 Methyl t-butyl ether	73	6.678	6.678	(0.799)	294029	4.37469	4.37469
33 trans-1,2-Dichloroethene	96	6.734	6.734	(0.806)	285800	4.97940	4.97940
34 Hexane	57	6.901	6.901	(0.650)	656964	5.81384	5.81384
35 Vinyl acetate	43	6.971	6.971	(0.834)	264719	6.98184	6.98184(R)
36 Isopropyl ether	87	Compound Not Detected.					
37 1,1-Dichloroethane	63	7.041	7.055	(0.843)	542305	4.99707	4.99707
38 Chloroprene	53	Compound Not Detected.					
39 ETBE	59	Compound Not Detected.					
41 2-Butanone	43	7.418	7.418	(0.888)	158461	22.5013	22.5013
40 Ethyl Acetate	43	Compound Not Detected.					
43 cis-1,2-Dichloroethene	96	7.488	7.488	(0.896)	270813	4.99080	4.99080
42 Propionitrile	54	Compound Not Detected.					
44 2,2-Dichloropropane	77	7.516	7.516	(0.900)	297266	3.79562	3.79562
45 Methacrylonitrile	41	Compound Not Detected.					
46 Bromochloromethane	128	7.683	7.683	(0.920)	81001	4.85090	4.85090
47 Chloroform	83	7.683	7.683	(0.920)	457720	4.76057	4.76057
48 Tetrahydrofuran	42	Compound Not Detected.					
51 1,1,1-Trichloroethane	97	7.921	7.921	(0.948)	431637	4.38703	4.38703
50 Isobutanol	41	7.935	7.865	(0.950)	1950	3.91300	3.91300(Q)
52 Cyclohexane	56	Compound Not Detected.					
53 1,1-Dichloropropene	75	8.018	8.019	(0.960)	443052	4.93254	4.93254
54 Carbon Tetrachloride	117	8.060	8.060	(0.965)	352697	4.08581	4.08581
57 1,2-Dichloroethane	62	8.158	8.172	(0.977)	253215	4.88181	4.88181
58 Benzene	78	8.200	8.200	(0.982)	1153082	5.02319	5.02319
56 TAME	73	Compound Not Detected.					
59 n-Butanol	56	Compound Not Detected.					
61 Trichloroethene	130	8.633	8.633	(1.033)	275150	4.42671	4.42671
62 2-Pentanone	43	8.647	8.647	(1.035)	132487	13.4341	13.4341(R)
63 Methyl Methacrylate	100	Compound Not Detected.					
64 1,2-Dichloropropane	63	8.801	8.801	(1.053)	248306	5.25596	5.25596
65 Methyl Cyclohexane	55	Compound Not Detected.					
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	8.898	8.898	(1.065)	75642	4.83141	4.83141
68 Bromodichloromethane	83	8.954	8.954	(1.072)	248671	4.69128	4.69128
69 2-nitropropane	41	8.954	9.080	(0.843)	1210	0.31099	0.310986(aQ)
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71 cis-1,3-Dichloropropene	75	9.261	9.262	(0.872)	283110	4.72045	4.72044
72 4-Methyl-2-pentanone	43	9.317	9.317	(0.878)	408345	24.4363	24.4363(R)
74 Toluene	91	9.555	9.555	(1.144)	1242701	4.94486	4.94486
76 trans-1,3-Dichloropropene	75	9.639	9.639	(1.154)	193272	4.81250	4.81250
75 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	9.806	9.806	(1.174)	111816	5.21792	5.21792
78	2-Hexanone	43	9.904	9.904	(1.186)	248776	22.6095	22.6095
79	1,3-Dichloropropane	76	9.946	9.946	(0.937)	233563	5.09238	5.09238
80	Tetrachloroethene	164	9.988	9.988	(0.941)	233249	4.17449	4.17449
81	Dibromochloromethane	129	10.155	10.155	(0.957)	108599	4.32886	4.32886
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	10.281	10.281	(0.968)	90572	4.82314	4.82314
84	1-Chlorohexane	91	10.504	10.505	(0.989)	399078	4.68311	4.68311
86	Chlorobenzene	112	10.630	10.630	(1.001)	663114	4.41235	4.41235
88	1,1,1,2-Tetrachloroethane	131	10.672	10.672	(1.005)	183263	4.05676	4.05676
87	Ethylbenzene	106	10.672	10.672	(1.005)	406161	4.53539	4.53539
89	m and p-Xylene	106	10.742	10.742	(1.012)	996533	9.05115	9.05115
90	o-Xylene	106	11.077	11.077	(1.043)	449279	4.59344	4.59344
91	Styrene	104	11.077	11.077	(1.043)	584639	4.53380	4.53380
92	Bromoform	173	11.287	11.287	(1.063)	45218	3.82749	3.82749
93	isopropyl benzene	105	11.342	11.343	(0.904)	1376254	4.93676	4.93676
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	11.482	11.482	(1.082)	64947	86.6017	86.6017
97	1,1,2,2-Tetrachloroethane	83	11.552	11.552	(0.921)	112896	4.84235	4.84235
98	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
99	1,2,3-Trichloropropane	110	11.622	11.622	(0.927)	31403	4.96616	4.96616
101	Bromobenzene	156	11.692	11.692	(0.932)	228080	4.40966	4.40966
100	n-Propylbenzene	120	11.692	11.692	(0.932)	344728	4.25141	4.25140
103	2-Chlorotoluene	126	11.817	11.817	(0.942)	273214	4.14031	4.14031
102	1,3,5-Trimethylbenzene	105	11.803	11.803	(0.941)	1070366	4.53741	4.53741
104	4-Chlorotoluene	126	11.901	11.901	(0.949)	267934	4.29986	4.29986
105	tert-Butylbenzene	119	12.125	12.125	(0.967)	1077993	4.47981	4.47981
106	1,2,4-Trimethylbenzene	105	12.152	12.153	(0.969)	1052856	4.52792	4.52792
107	sec-Butylbenzene	134	12.320	12.320	(0.982)	277639	4.23394	4.23394
108	4-Isopropyltoluene	119	12.418	12.418	(0.990)	1159797	4.41019	4.41019
109	1,3-Dichlorobenzene	146	12.502	12.502	(0.997)	478416	4.33929	4.33929
111	1,4-dichlorobenzene	146	12.571	12.572	(1.002)	477428	4.40984	4.40984
112	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	12.809	12.809	(1.021)	1119909	4.51349	4.51349
114	1,2-Dichlorobenzene	146	12.962	12.963	(1.033)	385456	4.48394	4.48394
115	1,2-Dibromo-3-chloropropane	157	13.773	13.773	(1.098)	9831	3.98543	3.98543
117	1,2,4-Trichlorobenzene	180	14.862	14.862	(1.185)	234804	4.37913	4.37913
118	Hexachlorobutadiene	225	15.029	15.030	(1.198)	205346	3.79757	3.79757
119	Naphthalene	128	15.267	15.267	(1.217)	239569	4.37859	4.37859
120	1,2,3-Trichlorobenzene	180	15.630	15.630	(1.246)	182971	4.47161	4.47160

QC Flag Legend

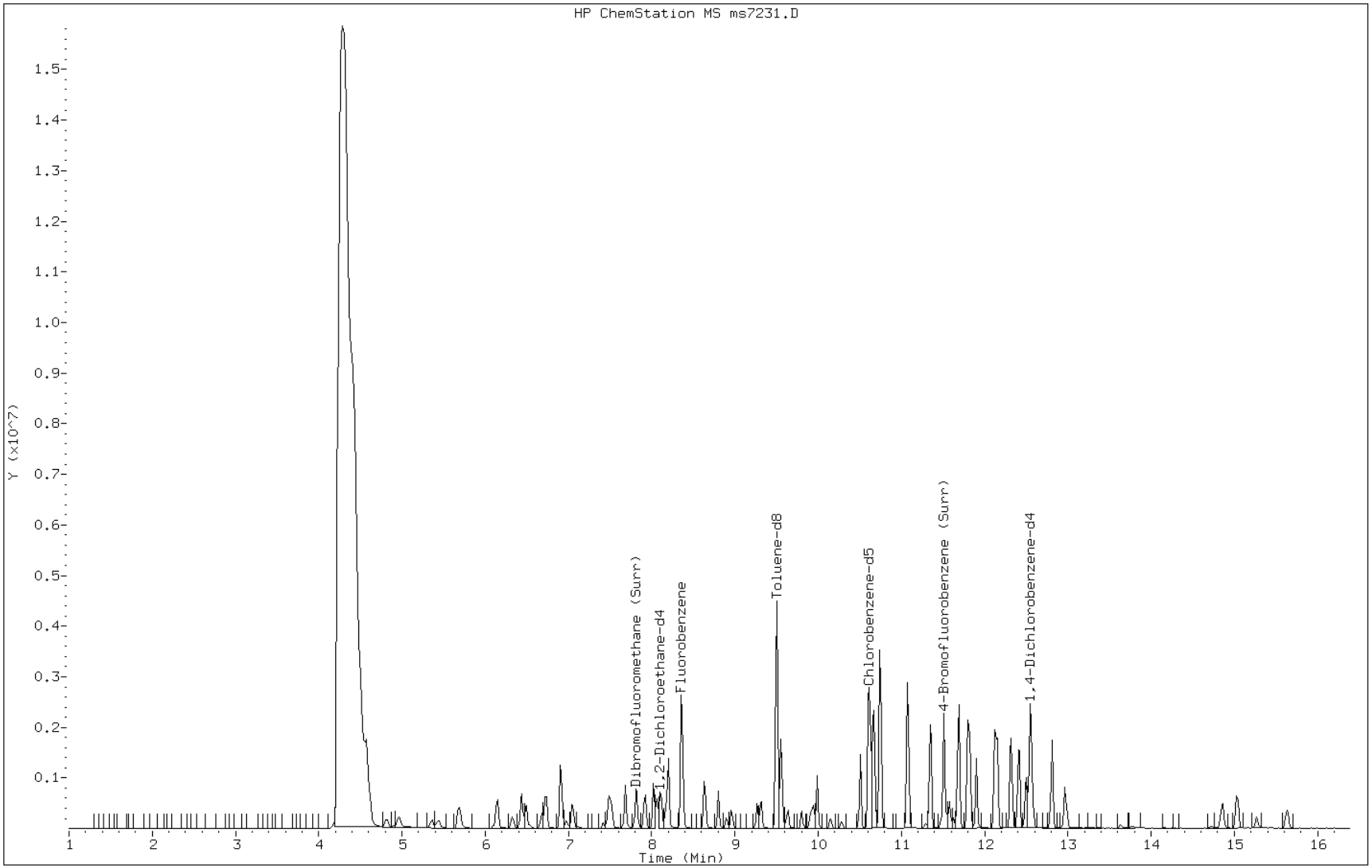
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: ms7231.D

Date: 01-DEC-2010 12:11

Client ID: Instrument: GCMS1.i

Sample Info: 280-10064-d-3 MSD,,PH<2 FOAMY Operator: DOBRANSKYM



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-10042-I-6 MSD

Matrix: Water | Lab File ID: g2_7873.D

Analysis Method: 8260B | Date Collected: 11/18/2010 16:25

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 19:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	20.6		10	1.9
71-43-2	Benzene	4.59		1.0	0.16
108-86-1	Bromobenzene	4.67		1.0	0.17
75-27-4	Bromodichloromethane	4.10		1.0	0.17
75-25-2	Bromoform	3.84		1.0	0.19
74-83-9	Bromomethane	4.40		2.0	0.21
78-93-3	2-Butanone (MEK)	18.2		6.0	2.0
56-23-5	Carbon tetrachloride	4.57		1.0	0.19
108-90-7	Chlorobenzene	4.58		1.0	0.17
74-97-5	Bromochloromethane	4.52		1.0	0.10
124-48-1	Dibromochloromethane	4.07		1.0	0.17
75-00-3	Chloroethane	4.56		2.0	0.41
67-66-3	Chloroform	4.37		1.0	0.16
74-87-3	Chloromethane	4.32		2.0	0.30
95-49-8	2-Chlorotoluene	4.57		1.0	0.17
106-43-4	4-Chlorotoluene	4.57		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.31		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.23		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.11	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.18		1.0	0.18
74-95-3	Dibromomethane	4.25		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.48		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.66		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.63		1.0	0.16
75-71-8	Dichlorodifluoromethane	4.81		2.0	0.31
75-34-3	1,1-Dichloroethane	4.49		1.0	0.22
107-06-2	1,2-Dichloroethane	4.72		1.0	0.13
75-35-4	1,1-Dichloroethene	4.96		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.06		1.0	0.24
78-87-5	1,2-Dichloropropane	4.41		1.0	0.18
142-28-9	1,3-Dichloropropane	4.43		1.0	0.22
594-20-7	2,2-Dichloropropane	4.66		1.0	0.18
563-58-6	1,1-Dichloropropene	4.60		1.0	0.19
100-41-4	Ethylbenzene	4.53		1.0	0.16
87-68-3	Hexachlorobutadiene	4.85		1.0	0.12
591-78-6	2-Hexanone	17.3		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-10064-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-10042-I-6 MSD

Matrix: Water | Lab File ID: g2_7873.D

Analysis Method: 8260B | Date Collected: 11/18/2010 16:25

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2010 19:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 43492 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.04		1.0	0.19
99-87-6	4-Isopropyltoluene	4.51		1.0	0.20
75-09-2	Methylene Chloride	4.99		2.0	0.32
108-10-1	4-Methyl-2-pentanone	18.9		5.0	0.98
1634-04-4	Methyl tert-butyl ether	2.99	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	8.98		2.0	0.34
91-20-3	Naphthalene	4.10		1.0	0.22
104-51-8	n-Butylbenzene	4.43		1.0	0.14
103-65-1	n-Propylbenzene	4.43		1.0	0.16
95-47-6	o-Xylene	4.30		1.0	0.19
135-98-8	sec-Butylbenzene	4.54		1.0	0.17
100-42-5	Styrene	4.19		1.0	0.17
98-06-6	tert-Butylbenzene	4.66		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.07		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.04		1.0	0.21
127-18-4	Tetrachloroethene	4.95		1.0	0.20
108-88-3	Toluene	4.68		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.75		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.30		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.54		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.54		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.59		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.43		1.0	0.27
79-01-6	Trichloroethene	4.68		1.0	0.16
75-69-4	Trichlorofluoromethane	4.58		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.45		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	4.46		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.61		1.0	0.16
75-01-4	Vinyl chloride	4.22		1.0	0.40
1330-20-7	Xylenes, Total	13.3		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-10042-I-6 MSD

Matrix: Water Lab File ID: g2_7873.D

Analysis Method: 8260B Date Collected: 11/18/2010 16:25

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2010 19:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.32) ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 43492 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		78-120
1868-53-7	Dibromofluoromethane (Surr)	84		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-127
2037-26-5	Toluene-d8 (Surr)	99		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\g2_7873.D
Lab Smp Id: 280-10042-i-6MSD
Inj Date : 01-DEC-2010 19:41
Operator : ILCZYSZD Inst ID: GCMS2.i
Smp Info : 280-10042-i-6MSD,,pH<2
Misc Info : g2_7872.D
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS2.i\120110.b\8260B-H2O.m
Meth Date : 01-Dec-2010 19:06 ilczyszynd Quant Type: ISTD
Cal Date : 28-NOV-2010 15:42 Cal File: g2_7810.D
Als bottle: 2 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC277

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	59 Fluorobenzene	96	7.859	7.859	(1.000)	1005488	10.0000		
*	85 Chlorobenzene-d5	119	10.119	10.126	(1.000)	194172	10.0000		
*	110 1,4-Dichlorobenzene-d4	152	11.992	11.992	(1.000)	261963	10.0000		(Q)
$	49 Dibromofluoromethane (Surr)	111	7.295	7.295	(0.928)	189948	8.44844	8.44844	
$	55 1,2-Dichloroethane-d4	65	7.595	7.595	(0.966)	209044	9.82951	9.82951	
$	73 Toluene-d8	98	9.032	9.039	(0.893)	934115	9.92248	9.92248	
$	96 4-Bromofluorobenzene (Surr)	95	10.998	11.006	(1.087)	303536	8.22954	8.22954	
M	1 1,2-Dichloroethene (total)	96				267952	9.05582	9.05582	
M	2 Xylene (total)	106				703891	13.2723	13.2723	
M	3 1,3-Dichloropropene (total)	100				272822	8.52950	8.52950	
M	4 Trihalomethanes (total)	100				415411	16.3701	16.3701	
	5 dichlorodifluoromethane	85	4.059	4.059	(0.517)	181623	4.80850	4.80850	
	6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	7 Chloromethane	50	4.311	4.297	(0.548)	168913	4.31780	4.31780	
	8 Vinyl Chloride	62	4.450	4.436	(0.566)	181097	4.22030	4.22030	
	9 Ethylene Oxide	43	Compound Not Detected.						
	10 Bromomethane	94	4.841	4.828	(0.616)	97445	4.40041	4.40041	
	11 Chloroethane	64	4.925	4.911	(0.627)	123665	4.56493	4.56493	
	12 Dichlorofluoromethane	67	Compound Not Detected.						
	13 Trichlorofluoromethane	101	5.163	5.163	(0.657)	218158	4.58274	4.58274	
	14 Ethanol	45	Compound Not Detected.						
	17 Ethyl Ether	59	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
19	Acrolein	56	Compound Not Detected.					
20	Acetone	43	5.582	5.582	(0.710)	69180	20.6124	20.6124
21	Trichlorotrifluoroethane	151	Compound Not Detected.					
22	2-propanol	45	Compound Not Detected.					
23	1,1-Dichloroethene	96	5.624	5.624	(0.716)	137148	4.96255	4.96255
24	Iodomethane	142	5.791	5.791	(0.737)	159972	5.54503	5.54503
25	Acetonitrile	41	Compound Not Detected.					
26	Methyl Acetate	43	Compound Not Detected.					
28	Carbon Disulfide	76	5.903	5.903	(0.751)	405595	2.62603	2.62603(R)
27	Allyl Chloride	41	Compound Not Detected.					
29	tert-Butyl alcohol	59	Compound Not Detected.					
30	Methylene Chloride	84	5.959	5.973	(0.758)	119246	4.98533	4.98533
31	Acrylonitrile	53	Compound Not Detected.					
32	Methyl t-butyl ether	73	6.158	6.158	(0.783)	181211	2.99129	2.99129(a)
33	trans-1,2-Dichloroethene	96	6.208	6.208	(0.790)	137899	4.74820	4.74820
34	Hexane	57	6.386	6.387	(0.631)	265031	4.49728	4.49728
35	Vinyl acetate	43	6.458	6.465	(0.822)	126503	7.14444	7.14444(R)
36	Isopropyl ether	87	Compound Not Detected.					
37	1,1-Dichloroethane	63	6.529	6.529	(0.831)	266803	4.48660	4.48660
38	Chloroprene	53	Compound Not Detected.					
39	ETBE	59	Compound Not Detected.					
41	2-Butanone	43	6.901	6.901	(0.878)	85866	18.1862	18.1862
40	Ethyl Acetate	43	Compound Not Detected.					
43	cis-1,2-Dichloroethene	96	6.958	6.966	(0.885)	130053	4.30763	4.30762
42	Propionitrile	54	Compound Not Detected.					
44	2,2-Dichloropropane	77	6.994	6.994	(0.890)	150300	4.65860	4.65860(a)
45	Methacrylonitrile	41	Compound Not Detected.					
46	Bromochloromethane	128	7.159	7.159	(0.911)	40561	4.52480	4.52480
47	Chloroform	83	7.173	7.173	(0.913)	214936	4.36634	4.36634
48	Tetrahydrofuran	42	Compound Not Detected.					
51	1,1,1-Trichloroethane	97	7.395	7.402	(0.941)	196166	4.58724	4.58724
50	Isobutanol	41	Compound Not Detected.					
52	Cyclohexane	56	Compound Not Detected.					
53	1,1-Dichloropropene	75	7.502	7.509	(0.955)	214687	4.60452	4.60452
54	Carbon Tetrachloride	117	7.545	7.545	(0.960)	157027	4.57139	4.57139
56	1,2-Dichloroethane	62	7.652	7.659	(0.974)	132260	4.72183	4.72183
58	Benzene	78	7.688	7.688	(0.978)	563909	4.58607	4.58607
57	TAME	73	Compound Not Detected.					
60	n-Butanol	56	Compound Not Detected.					
61	Trichloroethene	130	8.145	8.153	(1.036)	124507	4.67536	4.67536
62	2-Pentanone	43	8.174	8.174	(1.040)	63972	11.3192	11.3192
63	Methyl Methacrylate	100	Compound Not Detected.					
64	1,2-Dichloropropane	63	8.324	8.324	(1.059)	126862	4.40841	4.40841
65	Methyl Cyclohexane	55	Compound Not Detected.					
66	1,4-Dioxane	88	Compound Not Detected.					
67	Dibromomethane	93	8.424	8.424	(1.072)	40703	4.24631	4.24631
68	Bromodichloromethane	83	8.489	8.496	(1.080)	123441	4.09501	4.09501
69	2-nitropropane	41	Compound Not Detected.					
70	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
71	cis-1,3-Dichloropropene	75	8.803	8.810	(1.120)	157636	4.23012	4.23012
72	4-Methyl-2-pentanone	43	8.853	8.860	(1.126)	204410	18.8861	18.8861
74	Toluene	91	9.089	9.089	(1.156)	570395	4.67628	4.67628
76	trans-1,3-Dichloropropene	75	9.175	9.182	(1.167)	115186	4.29939	4.29939
75	Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
77	1,1,2-Trichloroethane	97	9.332	9.339	(1.187)	55843	4.43058	4.43058
78	2-Hexanone	43	9.447	9.454	(0.934)	131348	17.2791	17.2791
79	1,3-Dichloropropane	76	9.468	9.475	(0.936)	116341	4.43174	4.43174
80	Tetrachloroethene	164	9.511	9.518	(0.940)	95196	4.94898	4.94898
81	Dibromochloromethane	129	9.668	9.676	(0.955)	54412	4.06940	4.06940
82	Tetrahydrothiophene	60	Compound Not Detected.					
83	1,2-Dibromoethane	107	9.797	9.804	(0.968)	49017	4.18066	4.18066
84	1-Chlorohexane	91	10.033	10.040	(0.992)	197028	4.61613	4.61613
86	Chlorobenzene	112	10.147	10.155	(1.003)	309952	4.58132	4.58132
87	1,1,1,2-Tetrachloroethane	131	10.183	10.183	(1.006)	82020	4.06525	4.06525
88	Ethylbenzene	106	10.183	10.190	(1.006)	195826	4.53086	4.53086
89	m and p-Xylene	106	10.262	10.269	(1.014)	482978	8.97565	8.97565
91	o-Xylene	106	10.584	10.591	(1.046)	220913	4.29663	4.29663
90	Styrene	104	10.584	10.591	(1.046)	325356	4.19336	4.19336
92	Bromoform	173	10.784	10.791	(1.066)	22622	3.83932	3.83932
93	isopropyl benzene	105	10.848	10.855	(0.905)	637328	5.03509	5.03509
94	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
95	Cyclohexanone	55	10.970	10.977	(1.084)	33895	77.5455	77.5455
97	1,1,2,2-Tetrachloroethane	83	11.041	11.056	(0.921)	57208	4.03572	4.03572
98	t-1,4-Dichloro-2-butene	53	11.077	11.077	(0.924)	77434	22.9977	22.9977
99	1,2,3-Trichloropropane	110	11.120	11.127	(0.927)	15520	4.44867	4.44867
101	Bromobenzene	156	11.177	11.184	(0.932)	104250	4.67144	4.67144
100	n-Propylbenzene	120	11.177	11.184	(0.932)	167020	4.42916	4.42916
103	2-Chlorotoluene	126	11.299	11.313	(0.942)	130733	4.57114	4.57114
102	1,3,5-Trimethylbenzene	105	11.284	11.292	(0.941)	515286	4.60964	4.60964
104	4-Chlorotoluene	126	11.377	11.384	(0.949)	131068	4.57454	4.57454
105	tert-Butylbenzene	119	11.592	11.599	(0.967)	505449	4.65821	4.65821
106	1,2,4-Trimethylbenzene	105	11.620	11.628	(0.969)	500006	4.46254	4.46254
107	sec-Butylbenzene	134	11.778	11.785	(0.982)	131440	4.53837	4.53837
108	4-Isopropyltoluene	119	11.871	11.878	(0.990)	554104	4.51477	4.51476
109	1,3-Dichlorobenzene	146	11.942	11.949	(0.996)	227402	4.66321	4.66321
112	1,4-dichlorobenzene	146	12.014	12.021	(1.002)	219794	4.63303	4.63303
111	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
113	n-Butylbenzene	91	12.243	12.257	(1.021)	592507	4.42976	4.42976
114	1,2-Dichlorobenzene	146	12.386	12.393	(1.033)	181526	4.47713	4.47713
115	1,2-Dibromo-3-chloropropane	157	13.143	13.158	(1.096)	5647	3.11105	3.11105(R)
116	1,2,4-Trichlorobenzene	180	14.137	14.159	(1.179)	120249	4.54182	4.54182
117	Hexachlorobutadiene	225	14.309	14.323	(1.193)	84904	4.85355	4.85355
118	Naphthalene	128	14.516	14.538	(1.210)	174209	4.10316	4.10316
119	1,2,3-Trichlorobenzene	180	14.852	14.874	(1.238)	93328	4.53753	4.53753

QC Flag Legend

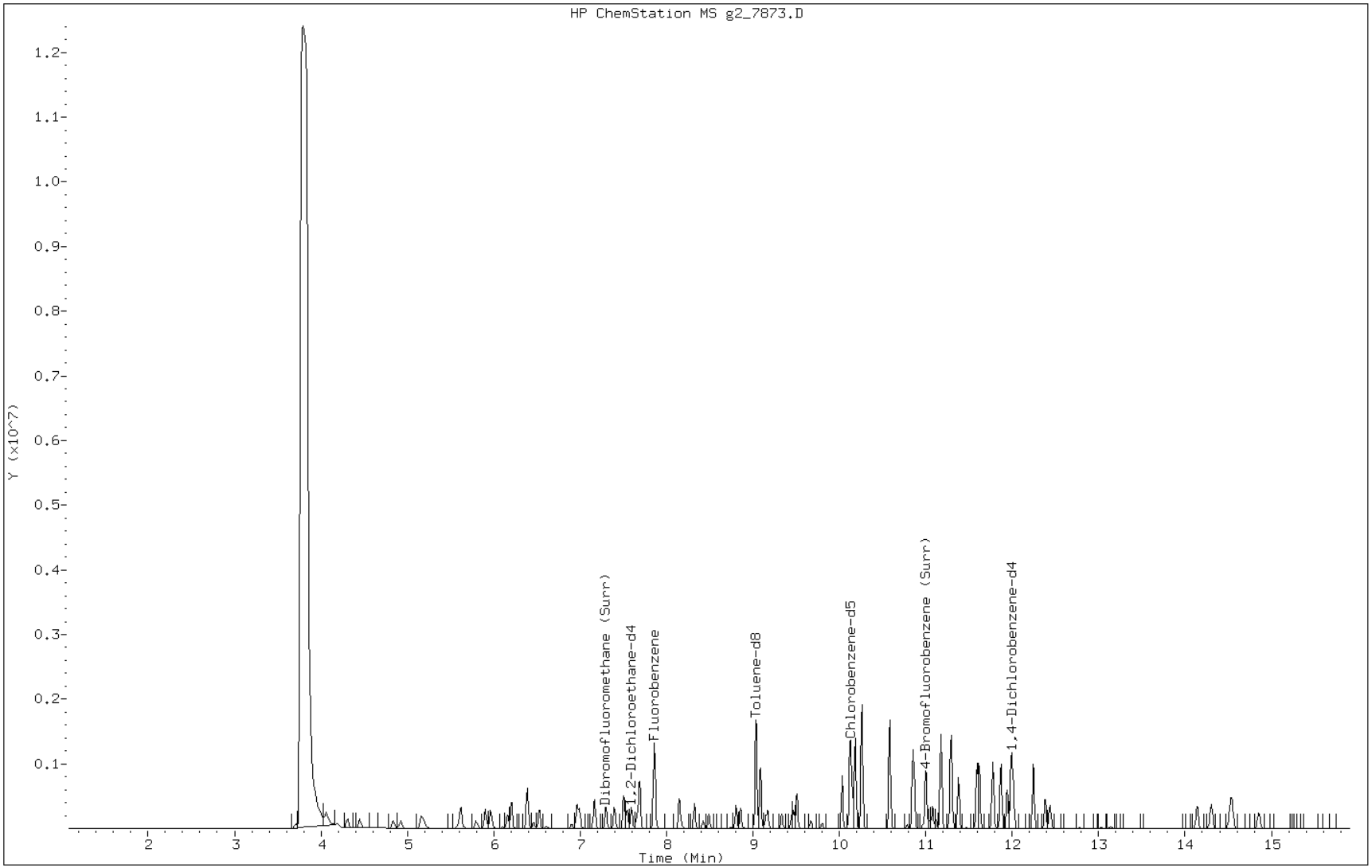
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: g2_7873.D

Date: 01-DEC-2010 19:41

Client ID: Instrument: GCMS2.i

Sample Info: 280-10042-i-6MSD,,pH<2 Operator: ILCZYSZD



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_G2 Start Date: 11/28/2010 10:07

Analysis Batch Number: 42958 End Date: 11/28/2010 16:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-42958/1		11/28/2010 10:07	1	g2_7793.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/2		11/28/2010 10:28	1	g2_7794.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/3		11/28/2010 10:48	1	g2_7795.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/4		11/28/2010 11:07	1	g2_7796.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/5		11/28/2010 11:27	1	g2_7797.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/6		11/28/2010 11:46	1	g2_7798.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/7		11/28/2010 12:06	1	g2_7799.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/8		11/28/2010 12:25	1	g2_7800.D	DB-624 (60.32) 0.32(mm)
ICV 280-42958/16		11/28/2010 13:04	1	g2_7802.D	DB-624 (60.32) 0.32(mm)
ICV 280-42958/17		11/28/2010 13:24	1	g2_7803.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/9		11/28/2010 13:43	1	g2_7804.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/10		11/28/2010 14:03	1	g2_7805.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/11		11/28/2010 14:23	1	g2_7806.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/12		11/28/2010 14:43	1	g2_7807.D	DB-624 (60.32) 0.32(mm)
ICIS 280-42958/13		11/28/2010 15:02	1	g2_7808.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/14		11/28/2010 15:22	1	g2_7809.D	DB-624 (60.32) 0.32(mm)
IC 280-42958/15		11/28/2010 15:42	1	g2_7810.D	DB-624 (60.32) 0.32(mm)
ICV 280-42958/18		11/28/2010 16:02	1	g2_7811.D	DB-624 (60.32) 0.32(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_G2 Start Date: 11/29/2010 16:01

Analysis Batch Number: 43097 End Date: 11/30/2010 02:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-43097/1		11/29/2010 16:01	1	g2_7812.D	DB-624 (60.32) 0.32(mm)
CCV 280-43097/3		11/29/2010 16:26	1		DB-624 (60.32) 0.32(mm)
CCV 280-43097/4		11/29/2010 16:46	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 17:25	1		DB-624 (60.32) 0.32(mm)
ICV 280-43097/2		11/29/2010 17:45	1	g2_7817.D	DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 18:05	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 18:49	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 19:08	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 20:06	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 20:26	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 20:46	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 21:06	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 21:26	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 21:45	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 22:05	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 22:25	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 22:45	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 23:04	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 23:31	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/29/2010 23:51	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/30/2010 00:10	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/30/2010 00:29	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/30/2010 00:49	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/30/2010 01:08	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/30/2010 01:28	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/30/2010 01:48	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/30/2010 02:07	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/30/2010 02:27	1		DB-624 (60.32) 0.32(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_G2 Start Date: 12/01/2010 16:33

Analysis Batch Number: 43492 End Date: 12/02/2010 06:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-43492/1		12/01/2010 16:33	1	g2_7864.D	DB-624 (60.32) 0.32(mm)
CCV 280-43492/2		12/01/2010 17:05	1	g2_7865.D	DB-624 (60.32) 0.32(mm)
CCV 280-43492/3		12/01/2010 17:24	1	g2_7866.D	DB-624 (60.32) 0.32(mm)
LCS 280-43492/4		12/01/2010 17:44	1	g2_7867.D	DB-624 (60.32) 0.32(mm)
MB 280-43492/5		12/01/2010 18:23	1	g2_7869.D	DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 18:42	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 19:02	1		DB-624 (60.32) 0.32(mm)
280-10042-I-6 MS		12/01/2010 19:21	1	g2_7872.D	DB-624 (60.32) 0.32(mm)
280-10042-I-6 MSD		12/01/2010 19:41	1	g2_7873.D	DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 20:59	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 21:18	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 21:57	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 22:36	1		DB-624 (60.32) 0.32(mm)
280-10064-5	MW-17	12/01/2010 22:56	1	g2_7883.D	DB-624 (60.32) 0.32(mm)
280-10064-6	MW-22	12/01/2010 23:15	1	g2_7884.D	DB-624 (60.32) 0.32(mm)
280-10064-7	MW-16	12/01/2010 23:35	1	g2_7885.D	DB-624 (60.32) 0.32(mm)
280-10064-8	MW-19	12/01/2010 23:54	1	g2_7886.D	DB-624 (60.32) 0.32(mm)
280-10064-9	MW-10	12/02/2010 00:13	1	g2_7887.D	DB-624 (60.32) 0.32(mm)
280-10064-10	MW-DUP	12/02/2010 00:33	1	g2_7888.D	DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 00:52	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 01:11	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 01:31	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 01:50	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 02:10	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 02:29	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 02:48	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 03:08	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 03:27	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 03:46	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 04:06	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 04:26	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 04:46	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 05:05	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 05:25	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 05:45	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 06:04	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/02/2010 06:24	1		DB-624 (60.32) 0.32(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_MS1 Start Date: 10/12/2010 18:48

Analysis Batch Number: 35665 End Date: 10/13/2010 01:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-35665/1		10/12/2010 18:48	1	ms4737.D	DB-624 (60.32) 0.32(mm)
IC 280-35665/2		10/12/2010 19:29	1	ms4739.D	DB-624 (60.32) 0.32(mm)
IC 280-35665/3		10/12/2010 19:49	1	ms4740.D	DB-624 (60.32) 0.32(mm)
IC 280-35665/4		10/12/2010 20:09	1	ms4741.D	DB-624 (60.32) 0.32(mm)
IC 280-35665/5		10/12/2010 20:30	1	ms4742.D	DB-624 (60.32) 0.32(mm)
IC 280-35665/6		10/12/2010 20:50	1	ms4743.D	DB-624 (60.32) 0.32(mm)
IC 280-35665/7		10/12/2010 21:10	1	ms4744.D	DB-624 (60.32) 0.32(mm)
IC 280-35665/8		10/12/2010 21:30	1	ms4745.D	DB-624 (60.32) 0.32(mm)
ICV 280-35665/9		10/12/2010 21:50	1		DB-624 (60.32) 0.32(mm)
ICV 280-35665/10		10/12/2010 22:11	1		DB-624 (60.32) 0.32(mm)
ICV 280-35665/11		10/12/2010 22:31	1		DB-624 (60.32) 0.32(mm)
IC 280-35665/12		10/12/2010 22:51	1		DB-624 (60.32) 0.32(mm)
IC 280-35665/13		10/12/2010 23:11	1		DB-624 (60.32) 0.32(mm)
IC 280-35665/14		10/12/2010 23:31	1		DB-624 (60.32) 0.32(mm)
IC 280-35665/15		10/12/2010 23:52	1		DB-624 (60.32) 0.32(mm)
ICIS 280-35665/16		10/13/2010 00:12	1		DB-624 (60.32) 0.32(mm)
IC 280-35665/17		10/13/2010 00:32	1		DB-624 (60.32) 0.32(mm)
IC 280-35665/18		10/13/2010 00:52	1		DB-624 (60.32) 0.32(mm)
ICV 280-35665/19		10/13/2010 01:33	1		DB-624 (60.32) 0.32(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_MS1 Start Date: 11/10/2010 16:58

Analysis Batch Number: 40333 End Date: 11/11/2010 04:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-40333/1		11/10/2010 16:58	1	ms6295.D	DB-624 (60.32) 0.32(mm)
CCV 280-40333/30		11/10/2010 17:41	1		DB-624 (60.32) 0.32(mm)
IC 280-40333/2		11/10/2010 18:01	1	ms6298.D	DB-624 (60.32) 0.32(mm)
IC 280-40333/3		11/10/2010 18:22	1	ms6299.D	DB-624 (60.32) 0.32(mm)
IC 280-40333/4		11/10/2010 18:42	1	ms6300.D	DB-624 (60.32) 0.32(mm)
IC 280-40333/5		11/10/2010 19:03	1	ms6301.D	DB-624 (60.32) 0.32(mm)
ICIS 280-40333/6		11/10/2010 19:23	1	ms6302.D	DB-624 (60.32) 0.32(mm)
IC 280-40333/7		11/10/2010 19:44	1	ms6303.D	DB-624 (60.32) 0.32(mm)
IC 280-40333/8		11/10/2010 20:04	1	ms6304.D	DB-624 (60.32) 0.32(mm)
ICV 280-40333/9		11/10/2010 20:45	1	ms6306.D	DB-624 (60.32) 0.32(mm)
CCV 280-40333/10		11/10/2010 21:06	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/10/2010 22:08	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/10/2010 22:28	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/10/2010 23:09	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/10/2010 23:30	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/10/2010 23:50	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 00:11	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 00:31	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 00:52	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 01:33	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 01:54	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 02:14	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 02:34	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 02:55	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 03:15	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 03:36	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 03:56	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 04:17	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 04:37	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/11/2010 04:57	1		DB-624 (60.32) 0.32(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_MS1 Start Date: 11/12/2010 19:02

Analysis Batch Number: 40764 End Date: 11/13/2010 06:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-40764/1		11/12/2010 19:02	1	ms6432.D	DB-624 (60.32) 0.32(mm)
IC 280-40764/2		11/12/2010 19:43	1	ms6434.D	DB-624 (60.32) 0.32(mm)
IC 280-40764/3		11/12/2010 20:04	1	ms6435.D	DB-624 (60.32) 0.32(mm)
IC 280-40764/4		11/12/2010 20:24	1	ms6436.D	DB-624 (60.32) 0.32(mm)
IC 280-40764/5		11/12/2010 20:45	1	ms6437.D	DB-624 (60.32) 0.32(mm)
IC 280-40764/6		11/12/2010 21:05	1	ms6438.D	DB-624 (60.32) 0.32(mm)
IC 280-40764/7		11/12/2010 21:26	1	ms6439.D	DB-624 (60.32) 0.32(mm)
IC 280-40764/8		11/12/2010 21:46	1	ms6440.D	DB-624 (60.32) 0.32(mm)
ICV 280-40764/9		11/12/2010 22:07	1	ms6441.D	DB-624 (60.32) 0.32(mm)
ICV 280-40764/10		11/12/2010 22:27	1	ms6442.D	DB-624 (60.32) 0.32(mm)
ICV 280-40764/11		11/12/2010 22:47	1	ms6443.D	DB-624 (60.32) 0.32(mm)
CCV 280-40764/14		11/12/2010 23:28	1		DB-624 (60.32) 0.32(mm)
ICV 280-40764/12		11/12/2010 23:49	1	ms6446.D	DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 00:09	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 00:30	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 01:10	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 01:31	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 01:51	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 02:12	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 02:32	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 02:52	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 03:13	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 03:33	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 03:53	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 04:14	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 04:34	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 04:54	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 05:15	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 05:35	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 05:55	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		11/13/2010 06:16	1		DB-624 (60.32) 0.32(mm)
ICV 280-40764/13		11/13/2010 06:56	1	ms6467.D	DB-624 (60.32) 0.32(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-10064-1

SDG No.:

Instrument ID: MSV_MS1 Start Date: 12/01/2010 06:13

Analysis Batch Number: 43324 End Date: 12/01/2010 17:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-43324/1		12/01/2010 06:13	1	ms7213.D	DB-624 (60.32) 0.32(mm)
CCV 280-43324/2		12/01/2010 06:22	1	ms7214.D	DB-624 (60.32) 0.32(mm)
CCV 280-43324/3		12/01/2010 06:43	1	ms7215.D	DB-624 (60.32) 0.32(mm)
MB 280-43324/4		12/01/2010 07:24	1	ms7217.D	DB-624 (60.32) 0.32(mm)
LCS 280-43324/5		12/01/2010 07:44	1	ms7218.D	DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 08:25	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 08:46	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 09:06	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 09:27	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 09:47	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 10:08	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 10:28	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 10:49	1		DB-624 (60.32) 0.32(mm)
280-10064-3	MW-21	12/01/2010 11:30	1	ms7229.D	DB-624 (60.32) 0.32(mm)
280-10064-3 MS	MW-21 MS	12/01/2010 11:51	1	ms7230.D	DB-624 (60.32) 0.32(mm)
280-10064-3 MSD	MW-21 MSD	12/01/2010 12:11	1	ms7231.D	DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 12:32	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 12:52	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 13:13	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 13:33	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 13:54	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 14:14	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 14:55	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 15:16	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 15:36	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 15:57	1		DB-624 (60.32) 0.32(mm)
ZZZZZ		12/01/2010 16:38	1		DB-624 (60.32) 0.32(mm)
280-10064-1	MW-09	12/01/2010 17:19	1	ms7246.D	DB-624 (60.32) 0.32(mm)
280-10064-2	MW-20	12/01/2010 17:39	1	ms7247.D	DB-624 (60.32) 0.32(mm)
280-10064-4	MW-18	12/01/2010 17:59	1	ms7248.D	DB-624 (60.32) 0.32(mm)

GC/MS VOA Continuing Calibration Review Checklist *TestAmerica Denver*

Instrument ID and Date: G2_12/01/10_PM

Check Method Used: Analysis ☐ 524.2 ☐ 624 ■ 8260B ☐ Other VOA _

VOA Preparation ☐ 5mL ■ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Continuing Calibration					
1. BFB meets criteria?	X			LO	
2. ICAL date and instrument ID verified?	X			LO	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	X			LO	
4. Does %D meet criteria for non-CCC compounds?	X			LO	
5. Isomeric pairs checked for correct peak assignment?	X			LO	
6. Standards traceability properly documented?	X			LO	
7. Manual integrations documented and checked?			X	LO	
8. Do the Internal Standards meet criteria for %D against ICAL?	X			LO	

1st Level Reviewer: _____ Date: 12/1/10

2nd Level Reviewer: _____ Date: 12.01.2010

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument: GC2

Sequence Name: C:\MSDChem\1\sequence\120110.B.S
Comment:
Operator: ILCZYSZD
Data Path: C:\MSDCHEM\1\DATA\120110.B\

Top	Pre-Seq Cmd:	
Instrument Control	Pre-Seq Cmd:	
Data Analysis	Pre-Seq Cmd:	
Top	Post-Seq Cmd:	
Instrument Control	Post-Seq Cmd:	
Data Analysis	Post-Seq Cmd:	

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

batch 43492

MAIN CCV
mv-bfb_0000 3
mv-main_000 13
mv-main gas_000 16
SUPP CCV
mv-supp_0009
mv- 2 cleve_000 6
ICV/LCS/MS/MSD
mv-524 a_000 3
mv-624 a_000 7
mv-SS Gas/ke_000 8
mv-secsrc B_000
mv-Secsrc C_000
mv-SS Supp_000
mv-SS 2 Cleve_000
mv-acrol/acry_000
mv-IS/SS_000 7
mv-Archon IS_000
mv-Archon SS_000

ISS/MSVOA #: See Mod

DEN-MS-0010 (8260B/624/524.2)
(Circle)

Pruge Volume: (20mL/5mL/5g)
(Circle)

Tune Time: 16:33-2:48

Lims Batch : 43492

Line				Sample Name/Misc Info		IL K	24 hr 12 hr	pH	Comments	ALS
1)	Sample	51	g2_7861	8260B	BLANK,,IS CHECK					
2)	BFB	100	g2_7862	BFB	BFB					
3)	Sample	10	g2_7863	8260B	CCV,,M tune adjusted 16:33					
4)	Sample	100	g2_7864	BFB	BFB,,					
5)	Sample	10	g2_7865	8260B	CCV,,M					
6)	Sample	11	g2_7866	8260B	CCV,,S					
7)	Sample	12	g2_7867	8260B	LCS,,					
8)	Sample	13	g2_7868	8260B	LCSD,, DNR (not needed)					
9)	Sample	14	g2_7869	8260B	MB,,					
10)	Sample	15	g2_7870	8260B	280-10042-g-8,,pH<2					
11)	Sample	16	g2_7871	8260B	280-10042-h-6,,pH<2					
12)	Sample	17	g2_7872	8260B	280-10042-i-6MS,,pH<2					
13)	Sample	18	g2_7873	8260B	280-10042-i-6MSD,,pH<2					
14)	Sample	19	g2_7874	8260B	280-10042-g-5,,pH<2					
15)	Sample	20	g2_7875	8260B	280-10042-i-7,,pH<2 DNR (IS not spiked)					
16)	Sample	21	g2_7876	8260B	280-10042-h-9,,pH<2					
17)	Sample	22	g2_7877	8260B	280-10042-g-10,,pH<2					
18)	Sample	23	g2_7878	8260B	280-10042-b-11,,pH<2					
19)	Sample	24	g2_7879	8260B	280-10042-b-11,,pH<2 10ml DNR (not needed)					
20)	Sample	25	g2_7880	8260B	280-10042-b-13,,pH<2					
21)	Sample	26	g2_7881	8260B	280-10042-b-13,,pH<2 10ml DNR (not needed)					
22)	Sample	27	g2_7882	8260B	280-10042-a-14,,pH<2					
23)	Sample	28	g2_7883	8260B	280-10064-c-5,,pH<2					
24)	Sample	29	g2_7884	8260B	280-10064-a-6,,pH<2					
25)	Sample	30	g2_7885	8260B	280-10064-a-7,,pH<2					
26)	Sample	31	g2_7886	8260B	280-10064-c-8,,pH<2					
27)	Sample	32	g2_7887	8260B	280-10064-c-9,,pH<2					
28)	Sample	33	g2_7888	8260B	280-10064-c-10,,pH<2					
29)	Sample	34	g2_7889	8260B	280-10042-g-5,,pH<2					
30)	Sample	35	g2_7890	8260B	280-10042-i-7,,pH<2					
31)	Sample	36	g2_7891	8260B	280-10042-h-9,,pH<2					
32)	Sample	37	g2_7892	8260B	280-10124-b-3,,pH<2					
33)	Sample	38	g2_7893	8260B	280-10124-b-4,,pH<2					
34)	Sample	39	g2_7894	8260B	280-10124-b-5,,pH<2					
35)	Sample	40	g2_7895	8260B	280-10124-a-7,,pH<2 2:48					
36)	Sample	41	g2_7896	8260B	280-10070-a-1,,pH<2 ref blanks					
37)	Sample	42	g2_7897	8260B	280-10070-b-2,,pH<2					
38)	Sample	43	g2_7898	8260B	280-10070-a-3,,pH<2					
39)	Sample	44	g2_7899	8260B	280-10070-a-4,,pH<2					
40)	Sample	45	g2_7900	8260B	280-10070-a-5,,pH<2					
41)	Sample	46	g2_7901	8260B	280-10070-a-6,,pH<2					
42)	Sample	47	g2_7902	8260B	280-10070-a-7,,pH<2					
43)	Sample	48	g2_7903	8260B	280-10070-a-8,,pH<2					

Sequence Name: C:\MSDChem\1\sequence\120110.B.S

Line	Type	Vial	DataFile	Method	Sample Name
44)	Sample	49	g2_7904	8260B	280-10070-a-9,,pH<2
45)	Sample	50	g2_7905	8260B	280-10070-b-12,,pH<2
46)	Sample	51	g2_7906	8260B	280-10070-a-13,,pH<2

1/27/2012

GC/MS VOA Continuing Calibration Review Checklist *TestAmerica Denver*

Instrument ID and Date: **MS1** **12/1/10**

Check Method Used: Analysis ☐ 524.2 ☐ 624 ■ 8260B ☐ Other VOA _

VOA Preparation ☐ 5mL ■20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Continuing Calibration					
1. BFB meets criteria?	X			✓	
2. ICAL date and instrument ID verified?	X			✓	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	X			✓	
4. Does %D meet criteria for non-CCC compounds?	X			✓	
5. Isomeric pairs checked for correct peak assignment?	X			✓	
6. Standards traceability properly documented?	X			✓	
7. Manual integrations documented and checked?			X	N/A	
8. Do the Internal Standards meet criteria for %D against ICAL?	X			✓	

1st Level Reviewer: [signature] Date: 12/1/10

2nd Level Reviewer: [signature] Date: 12-01-10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument: MS1

All IS and SS are within control unless noted.

Sequence Name: C:\MSDChem\1\sequence\120110A.S
Comment:
Operator: DOBRANSKYM
Data Path: C:\MSDCHEM\1\DATA\120110A.B\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

DV-MS-0010 (8260B/624) (Circle)
Pruge Volume: (20mL/5mL/5g) (Circle)
Tune Time: 613-1759
Lims Batch : 43524

Line						DIL OK	24 hr 12 hr	pH	Comments	ALS
1)	Sample	100	ms7213	BFB	BFB,,1uL					
2)	Sample	11	ms7214	8260B	CCV,,M 5uL					
3)	Sample	12	ms7215	8260B	CCV,,S 5uL					
4)	Sample	13	ms7216	8260B	LCS,,2.5uL - Mis-spiked - DNR-RR					
5)	Sample	14	ms7217	8260B	MB,,					
6)	Sample	15	ms7218	8260B	LCS,,2.5uL					
7)	Sample	16	ms7219	8260B	BLK					
8)	Sample	17	ms7220	8260B	280-10008-I-31,,PH<2					
9)	Sample	18	ms7221	8260B	280-10008-i-9,5,PH<2					
10)	Sample	19	ms7222	8260B	280-10008-i-24,4,PH<2					
11)	Sample	20	ms7223	8260B	280-10008-h-25,4,PH<2					
12)	Sample	21	ms7224	8260B	280-10008-g-10,1,PH<2 SS - DNR - RR - Report - confirmed 12/2/10					
13)	Sample	22	ms7225	8260B	280-10008-g-10,0.1,PH<2					
14)	Sample	23	ms7226	8260B	280-10008-g-11,5,PH<2					
15)	Sample	24	ms7227	8260B	280-10008-g-11,0.5,PH<2					
16)	Sample	25	ms7228	8260B	280-10043-h-1,1,PH~7! - overdilute - DNR - RR @ 20mL					
17)	Sample	26	ms7229	8260B	280-10064-d-3,,PH<2 FOAMY					
18)	Sample	27	ms7230	8260B	280-10064-d-3 MS,,PH<2 FOAMY					
19)	Sample	28	ms7231	8260B	280-10064-d-3 MSD,,PH<2 FOAMY					
20)	Sample	29	ms7232	8260B	280-10043-H-1,,PH~7! FOAMY!					
21)	Sample	30	ms7233	8260B	280-10043-g-3,,PH<2 FOAMY					
22)	Sample	31	ms7234	8260B	280-10043-a-4,,PH<2 FOAMY					
23)	Sample	32	ms7235	8260B	280-10008-g-12,,PH<2 FOAMY RR @ 1mL					
24)	Sample	33	ms7236	8260B	280-10008-g-13,,PH<2					
25)	Sample	34	ms7237	8260B	280-10008-g-33,,PH<2					
26)	Sample	35	ms7238	8260B	280-10008-g-33,4,PH<2 - RR @ 20mL - DNR					
27)	Sample	36	ms7239	8260B	280-10008-g-34,,PH<2					
28)	Sample	37	ms7240	8260B	280-10008-g-34,2,PH<2					
29)	Sample	38	ms7241	8260B	280-10008-g-35,1,PH<2 SS - RR - Report - confirmed DNR sent 12/2/10					
30)	Sample	39	ms7242	8260B	280-10008-g-35,0.1,PH<2					
31)	Sample	40	ms7243	8260B	280-10008-g-36,1,PH<2 - SS - RR - DNR					
32)	Sample	41	ms7244	8260B	280-10008-g-36,0.1,PH<2					
33)	Sample	42	ms7245	8260B	280-10008-c-37,,PH<2 - IS - DNR - RR					
34)	Sample	43	ms7246	8260B	280-10064-a-1,,PH<2					
35)	Sample	44	ms7247	8260B	280-10064-a-2,,PH<2					
36)	Sample	45	ms7248	8260B	280-10064-a-4,5,PH<2 FOAMY!					

12/2/10

MAIN CCV
- [x] mv-bfb_00003

- [x] mv-main_00012
- [x] mv-main gas_00010

SUPP CCV

- [x] mv-supp_0009
- [x] mv- 2 cleve_0006

ICV/LCS/MS/MSD

- [x] mv-524 a_0009
- [x] mv-624 a_0007
- [x] mv-SS Gas/ke_0008
- [ ] mv-secsrc B_000
- [ ] mv-Secsrc C_000
- [ ] mv-SS Supp_000
- [ ] mv-SS 2 Cleve_000
- [ ] mv-acrol/acry_000

- [ ] mv-IS/SS_000
- [x] mv-Archon IS_000201
- [x] mv-Archon SS_000229

TestAmerica Denver
GC/MS Initial Calibration Review Checklist

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: MS1 111010I SupP
Calibration Event 3590 Batch 40333

ICIS 6
ICV 9

Check Method Used: Analysis ☐ 524.2 ☐ 624 ☑ 8260B ☐ Other VOA _

VOA Preparation_ ☐ 5mL ☑ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Does the Form VI match the data in the Target source method?	✓			✓	
4. Sufficient number of calibration points used?	✓			✓	
5. Reasons for removal of points documented?	✓			✓	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	✓			✓	
7. If RRF used for ICAL, were all compounds within 15% RSD?			✓	NA	List all exceptions below (cpd & RSD)
8. Response factors meet criteria?	✓			✓	
9. Isomeric pairs checked for correct peak assignment?	✓			✓	
10. Data checked for detector saturation?	✓			✓	
11. Standards traceability properly documented?	✓			✓	
12. Manual integrations documented and checked?	✓			✓	
13. 2nd source ICV recovery 75-125% (±25%drift)for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. (≤ 20% exceptions noted)	✓			✓	1,2-dichloro-tetrafluoroethane @ +28.7% Ethylene Oxide @ +27.0% Propylene Oxide @ +22.7% Ethyl Tert-butyl Ether @ +25.5% 2-pentanone @ +36.5%

1st Level Reviewer: Joe Ryan Date: 11/10/10

2nd Level Reviewer: HW Date: 11/11/10

2-chloroethyl vinyl ether
HiPt = 30ppb

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument: MS1

Sequence Name: C:\MSDCHEM\1\SEQUENCE\111010I.S
Comment:
Operator: RYERSONJ
Data Path: C:\MSDCHEM\1\DATA\111010I.B\

Top	Pre-Seq Cmd:	
Instrument Control	Pre-Seq Cmd:	
Data Analysis	Pre-Seq Cmd:	
Top	Post-Seq Cmd:	
Instrument Control	Post-Seq Cmd:	
Data Analysis	Post-Seq Cmd:	

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info		
1)	Sample	100	ms6295	BFB	BFB,,1uL 1658
2)	Sample	10	ms6296	8260B	BLK
3)	Sample	11	ms6297	8260B	CCV,,M 5uL
4)	Sample	12	ms6298	8260B	IC,,S0.5 2.5uL 10x
5)	Sample	13	ms6299	8260B	IC,,S1.0 5uL 10x
6)	Sample	14	ms6300	8260B	IC,,S2.0 10uL 10X
7)	Sample	15	ms6301	8260B	IC,,S5.0 2.5uL
8)	Sample	16	ms6302	8260B	IC,,S30 15uL
9)	Sample	17	ms6303	8260B	IC,,S60 30uL
10)	Sample	18	ms6304	8260B	IC,,S60 30uL
11)	Sample	19	ms6305	8260B	BLK
12)	Sample	20	ms6306	8260B	ICV,,S
13)	Sample	21	ms6307	8260B	CCV,,G
14)	Sample	22	ms6308	8260B	CCV,,G
15)	Sample	23	ms6309	8260B	LCS,,
16)	Sample	24	ms6310	8260B	MB,,
17)	Sample	25	ms6311	8260B	LCS,,
18)	Sample	26	ms6312	8260B	BLK
19)	Sample	27	ms6313	8260B	280-9416-c-18,,PH=7
20)	Sample	28	ms6314	8260B	280-9518-i-18,,PH=7
21)	Sample	29	ms6315	8260B	280-9518-a-17,,PH=7
22)	Sample	30	ms6316	8260B	80-9518-j-16,5,PH=7
23)	Sample	31	ms6317	8260B	280-9518-j-16,0.5,PH=7
24)	Sample	32	ms6318	8260B	280-9518-b-15,10,PH=7
25)	Sample	33	ms6319	8260B	280-9518-b-15,1,PH=7 IS↓ RR@ 1mL
26)	Sample	34	ms6320	8260B	280-9518-B-1,,PH=7
27)	Sample	35	ms6321	8260B	280-9518-K-2,2,PH=7
28)	Sample	36	ms6322	8260B	280-9518-K-2,0.2,PH=7
29)	Sample	37	ms6323	8260B	280-9518-I-3,1,PH=7
30)	Sample	38	ms6324	8260B	280-9518-I-3,0.1,PH=7
31)	Sample	39	ms6325	8260B	280-9518-I-4,10,PH=7
32)	Sample	40	ms6326	8260B	280-9518-I-4,1,PH=7
33)	Sample	41	ms6327	8260B	280-9518-J-5,1,PH=7
34)	Sample	42	ms6328	8260B	280-9518-J-5,0.1,PH=7
35)	Sample	43	ms6329	8260B	280-9518-I-6,4,PH=7
36)	Sample	44	ms6330	8260B	280-9518-I-6,0.4,PH=7 (1457 SPRe@4 JR 11/2/10 mL

Unless noted.

ISS/MSVOA #: N/A

DEN-MS-0010 (8260B/624/524.2) (Circle)

Pruge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 16:58-01:57

Lims Batch: 40333

File I

- [x] BFB
- [x] mv-BFB_03

MAIN CCV

- [x] mv-main_012
- [x] mv-main gas_09
- [x] pp12x1

SUPP CCV

- [x] mv-supp_09
- [x] mv- 2 cleve_06
- [ ] mv-f123a_0

ICV/LCS/MS/MSD

- [x] mv-524 A_08
- [x] mv-624 A_07
- [x] mv-SS Gas/ks_05
- [ ] mv-secsrc B_0
- [ ] mv-Secsrc C_0
- [x] mv-SS Supp_06
- [x] mv-SS 2 Cleve_03
- [ ] mv-BO mix A_0
- [ ] mv-Acrol/Acryl_0

ICV/LCS/MS/MSD

- [ ] mv-524 B_0
- [ ] mv-624 B_0
- [ ] mv-Main Gas/ks_0
- [ ] mv-BO mix B_0

- [ ] mv-IS/SS_0
- [x] mv-Archon IS_01
- [x] mv-Archon SS_02

4 hr 2 hr	pH	Comments	ALS

11/2/10

Page 530 of 540

TestAmerica Denver
GC/MS Initial Calibration Review Checklist

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: MS1 111210I Main ICV's Lines 9-13
Calibration Event 3648 Batch 40764

Check Method Used: Analysis ☐ 524.2 ☐ 624 ☑ 8260B ☐ Other VOA _

VOA Preparation_ ☐ 5mL ☑ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	----- Level 1 ----- Yes	No	N/A	Level 2	Comments
Initial Calibration					
1. BFB meets criteria?	✓			X	
2. ICAL date and instrument ID verified?	✓			X	
3. Does the Form VI match the data in the Target source method?	✓			X	
4. Sufficient number of calibration points used?	✓			X	
5. Reasons for removal of points documented?	✓			X	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	✓			X	
7. If RRF used for ICAL, were all compounds within 15% RSD?			✓	N/A	List all exceptions below (cpd & RSD)
8. Response factors meet criteria?	✓			X	
9. Isomeric pairs checked for correct peak assignment?	✓			X	
10. Data checked for detector saturation?	✓			X	
11. Standards traceability properly documented?	✓			X	
12. Manual integrations documented and checked?			✓	N/A	
13. 2nd source ICV recovery 75-125% (±25%drift)for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section. all < 20% exceptions noted	✓			X	Ethanol @ +26.8% JR 11/15/10 ~~Tributoxyethanol (total) @ -32.7%~~ tert-butyl alcohol @ +73.6% cyclohexanone @ -33.0%

1st Level Reviewer: Joe Ryan Date: 11/12/10

2nd Level Reviewer: [signature] Date: 11/13/10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument: MSI

All IS and SS are within control unless noted.

ISS/MSVOA #: N/A

DEN-MS-0010(8260B/624/524.2)
(Circle)

Pruge Volume: (20mL/5mL/5g)
(Circle)

Tune Time: 19:02-06:56

Lims Batch: 40764

Comments:

```
Sequence Name: C:\MSDChem\1\sequence\111210I.S
      Comment:
     Operator: RYERSONJ
    Data Path: C:\MSDCHEM\1\DATA\111210I.B\
Top                  Pre-Seq Cmd:
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Top                  Post-Seq Cmd:
Instrument Control   Post-Seq Cmd:
Data Analysis        Post-Seq Cmd:

  Method Sections To Run        On A Barcode Mismatch
    (X) Full Method               (X) Inject Anyway
    ( ) Reprocessing Only         ( ) Don't Inject
```

Line						pH	Comments	ALS
1)	Sample	100	ms6432	BFB	BFB,,1uL			
2)	Sample	10	ms6433	8260B	BLK			
3)	Sample	11	ms6434	8260B	IC,,M 0.3			
4)	Sample	12	ms6435	8260B	IC,,M 1.0			
5)	Sample	13	ms6436	8260B	IC,,M 2.0			
6)	Sample	14	ms6437	8260B	IC,,M 5.0			
7)	Sample	15	ms6438	8260B	IC,,M 10			
8)	Sample	16	ms6439	8260B	IC,,M 30			
9)	Sample	17	ms6440	8260B	IC,,M 60			
10)	Sample	18	ms6441	8260B	ICV,,MB			
11)	Sample	19	ms6442	8260B	ICV,,MA			
12)	Sample	20	ms6443	8260B	ICV,,MC			
13)	Sample	21	ms6444	8260B	ICV,,G DNR			
14)	Sample	22	ms6445	8260B	CCV,,S			
15)	Sample	23	ms6446	8260B	ICV,,G			
16)	Sample	24	ms6447	8260B	LCS,,			
17)	Sample	25	ms6448	8260B	MB,,			
18)	Sample	26	ms6449	8260B	280-9572-A-19,,ph=7 SS↓ RR			
19)	Sample	27	ms6450	8260B	280-9572-B-20,,PH=7			
20)	Sample	28	ms6451	8260B	280-9572-I-21,,PH=7			
21)	Sample	29	ms6452	8260B	280-9572-K-22,,PH=7			
22)	Sample	30	ms6453	8260B	280-9572-k-22,7.5,PH=7			
23)	Sample	31	ms6454	8260B	280-9572-j-23,,PH=7 DIL @(5ml)			
24)	Sample	32	ms6455	8260B	280-9572-a-24,,PH=7 DIL @(5ml)			
25)	Sample	33	ms6456	8260B	280-9572-i-25,,PH=7			
26)	Sample	34	ms6457	8260B	280-9572-j-26,,PH=7			
27)	Sample	35	ms6458	8260B	280-9572-i-27,,PH=7			
28)	Sample	36	ms6459	8260B	280-9572-j-28,,PH=7			
29)	Sample	37	ms6460	8260B	280-9572-j-28,5,PH=7			
30)	Sample	38	ms6461	8260B	280-9572-c-29,,PH=7			
31)	Sample	39	ms6462	8260B	280-9572-c-29,5,PH=7			
32)	Sample	40	ms6463	8260B	280-9572-j-30,,PH=7			
33)	Sample	41	ms6464	8260B	280-9572-c-31,,PH=7			
34)	Sample	42	ms6465	8260B	280-9572-a-32,,PH=7			
35)	Sample	43	ms6466	8260B	280-9572-g-33,,PH=7 SS↓ RR			
36)	Sample	44	ms6467	8260B	ICV,,BrForm			

Tar

lumbe

BFB
☑ mv-BFB_03

MAIN CCV
☑ mv-main_02
☑ mv-main gas_09

SUPP CCV
☑ mv-supp_09
☑ mv- 2 cleve_06
☐ mv-1123a_0

ICV/LCS/MS/MSD
☑ mv-524 A_05
☑ mv-624 A_07
☑ mv-SS Gas/ke_08
☑ mv-secsrc B_02
☑ mv-Secsrc C_06
☐ mv-SS Supp_0
☐ mv-SS 2 Cleve_0
☐ mv-BO mix A_0
☑ mv-Acrol/Acryl_01 JR 11/11/10
☑ mv-Acryl
ICV/LCS/MS/MSD

☐ mv-524 B_0
☐ mv-624 B_0
☐ mv-Main Gas/ke_0
☐ mv-BO mix B_0

☐ mv-IS/SS_0 301
☑ mv-Archon IS_0 325
☑ mv-Archon SS_0 911

JR 11/14/10 11/16/10

TestAmerica Denver
GC/MS Initial Calibration Review Checklist

MAIN

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: G2: 11·28·10
Calibration Event 3621 Batch 429546 ICVs lines 16,17 430497 ICV line 2

Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____
☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA _

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Does the Form VI match the data in the Target source method?	✓			✓	
4. Sufficient number of calibration points used?	✓			✓	
5. Reasons for removal of points documented?	✓			✓	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	✓			✓	
7. If RRF used for ICAL, were all compounds within 15% RSD?			✓	N/A	List all exceptions below (cpd & RSD)
8. Response factors meet criteria?	✓			✓	
9. Isomeric pairs checked for correct peak assignment?	✓			✓	
10. Data checked for detector saturation?	✓			✓	
11. Standards traceability properly documented?	✓			✓	
12. Manual integrations documented and checked?			✓	N/A	
13. 2nd source ICV recovery 75-125% (±25%drift) for DoD projects, 65-135% (±35%, or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section.	✓			✓	-41.8% CYCLOHEXANONE +21.1% ACETONE +25.0% IODOMETHANE -22.2% n-BUTANOL -21.4% CHLOROPRENE All <20% unless noted.

High point for dichlorodifluoro methane is 30ppb.

1st Level Reviewer: [signature] Date: 11·29·2010

2nd Level Reviewer: [signature] Date: 11/30/10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument: G2

All IS and SS are within control unless noted.

Comments:

ISS/MSVOA #: See Below

DEN-MS-0010 (8260B/624/524.2) (Circle)

Pruge Volume: (20mL/5mL/5g) (Circle)

Tune Time: ~~42458~~

Lims Batch : 10:07-16:02

Target Batch (Director

Sequence Name: C:\MSDChem\1\sequence\112810I.B.S
Comment:
Operator: ILCZYSZD
Data Path: C:\MSDCHEM\1\DATA\112810I.B\

Top Pre-Seq Cmd:
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Top Post-Seq Cmd:
Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Lot #	Line		Sample Name/Misc Info			Pr	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	ALS
	1) BFB	51	g2_7791	8260B	BLANK								
	2) BFB	100	g2_7792	BFB	BFB								
	3) BFB	100	g2_7793	BFB	BFB 16:07								
	4) Sample	10	g2_7794	8260B	IC,,M0~~05~~ 0.3								
	5) Sample	11	g2_7795	8260B	IC,,M001								
	6) Sample	12	g2_7796	8260B	IC,,M002								
	7) Sample	13	g2_7797	8260B	IC,,M005								
	8) Sample	14	g2_7798	8260B	IC,,M010								
	9) Sample	15	g2_7799	8260B	IC,,M030								
	10) Sample	16	g2_7800	8260B	IC,,M060								
	11) Sample	17	g2_7801	8260B	ICV,,MB (RL2)								
	12) Sample	18	g2_7802	8260B	ICV,,MC								
	13) Sample	19	g2_7803	8260B	ICV,,MA								
	14) Sample	20	g2_7804	8260B	IC,,S0~~05~~ 0.3								
	15) Sample	21	g2_7805	8260B	IC,,S001								
	16) Sample	22	g2_7806	8260B	IC,,S002								
	17) Sample	23	g2_7807	8260B	IC,,S005								
	18) Sample	24	g2_7808	8260B	ICIS,,S010								
	19) Sample	25	g2_7809	8260B	IC,,S30								
	20) Sample	26	g2_7810	8260B	IC,,S60								
	21) Sample	27	g2_7811	8260B	ICV,,SA 16:02								

11/30/10

MAIN CCV
- [x] mv-bfb_0000 3
- [ ] mv-main_000 13
- [ ] mv-main gas_000 10

11/30/10

SUPP CCV
- [ ] mv-supp_000 9
- [ ] mv- 2 cleve_000 6

ICV/LCS/MS/MSD
- [ ] mv-524 a_000 9
- [ ] mv-624 a_000 7
- [ ] mv-SS Gas/ke_000 8
- [ ] mv-secsrc B_000 2
- [ ] mv-Secsrc C_000 6
- [ ] mv-SS Supp_000 6
- [ ] mv-SS 2 Cleve_000 2
- [ ] mv-acrol/acry_000 6

- [ ] mv-IS/SS_000
- [ ] mv-Archon IS_000 4
- [ ] mv-Archon SS_000 3

11/30/10

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument: GZ

All IS and SS are within control unless noted.

Comments:

ISS/MSVOA #: See hplc

DEN-MS-0010 (8260B/624/524.2) (Circle)

Pruge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 16:01-2:27

Lims Batch : 43097

```
Sequence Name: C:\MSDCHEM\1\SEQUENCE\112910P.B.S
      Comment:
     Operator: jacksonto
    Data Path: C:\MSDCHEM\1\DATA\112910p.B\
Top                  Pre-Seq Cmd:
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Top                  Post-Seq Cmd:
Instrument Control   Post-Seq Cmd:
Data Analysis        Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject
```

Target Batc	Li	ir	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	ALS

Line			Sample Name/Misc Info		
1)	BFB	100	g2_7812	BFB	BFB 16:01
2)	Sample	2	g2_7813	8260B	CCV,,M 5uL
3)	Sample	3	g2_7814	8260B	CCV,,S 5uL
4)	Sample	4	g2_7815	8260B	LCS,, 2.5uL
5)	Sample	5	g2_7816	8260B	LCS,, 2.5uL
6)	Sample	6	g2_7817	8260B	ICV,,MB 5uL
7)	Sample	7	g2_7818	8260B	MB,,
8)	Sample	8	g2_7819	8260B	280-9870-G-2,,pH<2 foamy
9)	Sample	9	g2_7820	8260B	280-9870-G-3,,pH<2 foamy
10)	Sample	10	g2_7821	8260B	280-10181-A-1,,pH~7
11)	Sample	11	g2_7822	8260B	280-10181-B-2,,pH~7
12)	Sample	12	g2_7823	8260B	280-10181-C-2 MS,,pH~7
13)	Sample	13	g2_7824	8260B	280-10181-C-2 MSD,,pH~7
14)	Sample	14	g2_7825	8260B	280-10181-B-3,,pH~7
15)	Sample	15	g2_7826	8260B	280-10181-B-4,,pH~7
16)	Sample	16	g2_7827	8260B	280-10181-B-5,,pH~7
17)	Sample	17	g2_7828	8260B	280-10181-B-6,,pH~7
18)	Sample	18	g2_7829	8260B	280-10181-B-7,,pH~7
19)	Sample	19	g2_7830	8260B	280-10181-B-8,,pH~7
20)	Sample	20	g2_7831	8260B	280-9912-B-5,,pH<2
21)	Sample	21	g2_7832	8260B	280-9912-C-6,,pH<2
22)	Sample	22	g2_7833	8260B	280-9912-C-25,,pH<2
23)	Sample	23	g2_7834	8260B	280-9912-C-33,,pH<2
24)	Sample	24	g2_7835	8260B	280-10139-A-13,,pH~7
25)	Sample	25	g2_7836	8260B	280-10042-G-1,,pH<2
26)	Sample	26	g2_7837	8260B	280-10042-G-2,,pH<2
27)	Sample	27	g2_7838	8260B	280-10042-H-3,,pH<2
28)	Sample	28	g2_7839	8260B	280-10042-G-4,,pH<2
29)	Sample	29	g2_7840	8260B	280-10042-A-12,,pH<2 2127

MAIN CCV
- [x] mv-bfb_0000 3
- [x] mv-main_000 13
- [x] mv-main gas_000 10

SUPP CCV
- [x] mv-supp_000 9
- [x] mv- 2 cleve_0006

ICV/LCS/MS/MSD
- [x] mv-524 a_000 9
- [x] mv-624 a_000 7
- [x] mv-SS Gas/ke_000 8
- [ ] mv-secsrc B_000
- [ ] mv-Secsrc C_000
- [ ] mv-SS Supp_000
- [ ] mv-SS 2 Cleve_000
- mv-acrol/acry_000

- [x] mv-IS/SS_000 7
- [ ] mv-Archon IS_000
- [ ] mv-Archon SS_000

11/30/12

11/30/12

SUPP

TestAmerica Denver
GC/MS Initial Calibration Review Checklist

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: GC/MS: 11.28.10
Calibration Event 3822 Batch 42958 ICV line 16, ICIS line 13

Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV _____

☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA _

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB/DFTPP meets criteria?	X			X	
2. ICAL date and instrument ID verified?	X			X	
3. Does the Form VI match the data in the Target source method?	X			X	
4. Sufficient number of calibration points used?	X			X	
5. Reasons for removal of points documented?	X			X	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	X			X	
7. If RRF used for ICAL, were all compounds within 15% RSD?			X	N/A	List all exceptions below (cpd & RSD)
8. Response factors meet criteria?	X			X	
9. Isomeric pairs checked for correct peak assignment?	X			X	
10. Data checked for detector saturation?	X			X	
11. Standards traceability properly documented?	X			X	
12. Manual integrations documented and checked?	X			X	
13. 2nd source ICV recovery 75-125% (±25%drift)for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section.	X			X	+26.1% 2-NITROPROPANE +22.5% 2-CHLOROETHYLVINYLETHER All <20% unless noted

Not calibrated for PPO.

1st Level Reviewer: JAX Date: 11.29.2010

2nd Level Reviewer: [signature] Date: 11/30/10

HIGH POINTS:
3750 ppb ETHYLENE OXIDE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument: G2

All IS and SS are within control unless noted.

Comments:

ISS/MSVOA #: See Below

DEN-MS-0010 (8260B/624/524.2) (Circle)

Pruge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 42458

Lims Batch : 10:07-16:02

Target Batch (Director

Lot #

```
Sequence Name: C:\MSDChem\1\sequence\112810I.B.S
      Comment:
     Operator: ILCZYSZD
    Data Path: C:\MSDCHEM\1\DATA\112810I.B\
Top                  Pre-Seq Cmd:
Instrument Control   Pre-Seq Cmd:
Data Analysis        Pre-Seq Cmd:

Top                  Post-Seq Cmd:
Instrument Control   Post-Seq Cmd:
Data Analysis        Post-Seq Cmd:

   Method Sections To Run      On A Barcode Mismatch
    (X) Full Method              (X) Inject Anyway
    ( ) Reprocessing Only        ( ) Don't Inject

-------------------------------------------------------------
   Line                    Sample Name/Misc Info
 1) BFB          51  g2_7791  8260B    BLANK
 2) BFB         100  g2_7792  BFB      BFB
 3) BFB         100  g2_7793  BFB      BFB
 4) Sample       10  g2_7794  8260B    IC,,M005
 5) Sample       11  g2_7795  8260B    IC,,M001
 6) Sample       12  g2_7796  8260B    IC,,M002
 7) Sample       13  g2_7797  8260B    IC,,M005
 8) Sample       14  g2_7798  8260B    IC,,M010
 9) Sample       15  g2_7799  8260B    IC,,M030
10) Sample       16  g2_7800  8260B    IC,,M060
11) Sample       17  g2_7801  8260B    ICV,,MB
12) Sample       18  g2_7802  8260B    ICV,,MC
13) Sample       19  g2_7803  8260B    ICV,,MA
14) Sample       20  g2_7804  8260B    IC,,S005
15) Sample       21  g2_7805  8260B    IC,,S001
16) Sample       22  g2_7806  8260B    IC,,S002
17) Sample       23  g2_7807  8260B    IC,,S005
18) Sample       24  g2_7808  8260B    ICIS,,S010
19) Sample       25  g2_7809  8260B    IC,,S30
20) Sample       26  g2_7810  8260B    IC,,S60
21) Sample       27  g2_7811  8260B    ICV,,SA
```

11/30/10 10:07 11/30/10 0.3 11/30/10 0.3 16:02

Lot #	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	ALS

MAIN CCV
- [x] mv-bfb_0000 3
- [x] mv-main_000 13
- [x] mv-main gas_000 10

11/30/10

SUPP CCV
- [x] mv-supp_000 9
- [x] mv- 2 cleve_000 6

ICV/LCS/MS/MSD
- [x] mv-524 a_000 9
- [x] mv-624 a_000 7
- [x] mv-SS Gas/ke_000 8
- [x] mv-secsrc B_000 2
- [x] mv-Secsrc C_000 6
- [x] mv-SS Supp_000 6
- [x] mv-SS 2 Cleve_000 2
- [x] mv-acrol/acry_000 6

- [ ] mv-IS/SS_000
- [x] mv-Archon IS_000 4
- [x] mv-Archon SS_000 3

02 11/30/10

Shipping and Receiving Documents

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 3.4 1R2 3C 11/20

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client: AECOM	Project Manager: Jenny Phillips	Date: 11/18/10	Chain of Custody Number: 128825
Address: 1601 Prospect Pkwy	Telephone Number (Area Code)/Fax Number: 970 493 8878	Lab Number:	Page 1 of 1
City: Fort Collins / State: CO / Zip Code: 80525	Site Contact: J Jarboe	Lab Contact:	
Project Name and Location (State): Maverik Kirtland	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis (Attach list if more space is needed): 8260
MW-09	11/18/10	1350		X						X			X
MW-20	"	0740											
MW-21		0820											
MW-18		0900											
MW-21 MS													
MW-21 MSD													
MW-17		0945											
MW-22		1035											
MW-16		1300											
MW-19		1445											
MW-10		1530											
MW-Dup		—											

Special Instructions/ Conditions of Receipt

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	11/18/10	1630	1. Received By	11/20/10	930
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Check List

Client: AECOM, Inc.

Job Number: 280-10064-1
SDG Number:

Login Number: 10064
List Source: TestAmerica Denver
Creator: Cofoid, Stephen T
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

AECOM Environment

Submitted to:
Maverik Kirtland

Submitted by:
AECOM
Fort Collins, CO
60139478.210
May 3, 2011

Organic Data Validation Report

Maverik Kirtland
Groundwater Samples
TestAmerica of Arvada, CO Laboratory Data
November 2010 Sampling

Prepared By Ann Biegelsen
Environmental Quality Assurance Chemist

Overview

The samples analyzed for the Maverik Groundwater sampling event from November 2010 are listed in the Table of Samples Analyzed (page 2). Data validation was performed on ten groundwater samples.

The samples were analyzed by TestAmerica of Arvada, CO. The validated analyses were: Volatile Organic Compounds (VOCs) by SW846 method 8260B.

The Analytical Data Validation Checklist is presented as pages 4-8. Data were evaluated based on validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-08-01, June 2008 with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008 of October 1999, as they applied to the reported methodology. Field duplicate RPD control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

The following data components were reviewed during the data validation procedure:

Submitted Deliverables
Case Narratives
Chain-of-Custody form(s) and sample integrity
Sample results, reporting detection limits, method detection limits, dilution factors
Holding times
Method blank results
LCS/LCSD (blank spike) results
MS/MSD (matrix spike) results
Instrument tunes (system performance checks)
Instrument calibrations
Laboratory duplicate results
Organic surrogate recoveries
GC/MS Internal standards
Blind field duplicate results
Electronic data deliverables (EDDs)

Data Validation Qualifiers Assigned During this Review

J detected result, estimated concentration

UJ undetected result, reporting limit is estimated

U result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

Assigned qualifiers are detailed in the Analytical Data Validation Checklist and are summarized in the Table of Qualified Analytical Results (page 3).

Overall Data Assessment

Precision, accuracy, method compliance, and completeness of the data set have been determined to be acceptable, based on the data submitted. The data are suitable for their intended use.

Table of Samples Analyzed
Maverik Kirtland
Groundwater Samples
TestAmerica of Arvada, CO Laboratory SDG 280-10064-1
November 2010 Sampling

Matrix	Sample ID	Parent Sample ID	Sample Date and Time		Lab SDG	Lab Sample ID	COC Reference
Groundwater	MW-09-111810		11/18/2010	13:50	280100641	280-10064-1	128825
Groundwater	MW-10-111810		11/18/2010	15:30	280100641	280-10064-9	128825
Groundwater	MW-16-111810		11/18/2010	13:00	280100641	280-10064-7	128825
Groundwater	MW-17-111810		11/18/2010	09:45	280100641	280-10064-5	128825
Groundwater	MW-18-111810		11/18/2010	09:00	280100641	280-10064-4	128825
Groundwater	MW-19-111810		11/18/2010	14:45	280100641	280-10064-8	128825
Groundwater	MW-20-111810		11/18/2010	07:40	280100641	280-10064-2	128825
Groundwater	MW-21-111810		11/18/2010	08:20	280100641	280-10064-3	128825
Groundwater	MW-22-111810		11/18/2010	10:35	280100641	280-10064-6	128825
Groundwater	MW-DUP-111810	MW-22-111810	11/18/2010	00:00	280100641	280-10064-10	128825

Table of Qualified Analytical Results
Maverik Kirtland
Groundwater Samples
TestAmerica of Arvada, CO Laboratory SDG 280-10064-1
November 2010 Sampling

Lab SDG	Sample ID	Method	Analyte	Concentration	Qualifier	Reason Code
280100641	MW-10-111810	8260B	Methylene Chloride	< 2.0 ug/l	U	MB, BRL, original result was 0.47 ug/L
280100641	MW-10-111810	8260B	trans-1,3-Dichloropropene	< 3.0 ug/l	UJ	CCAL
280100641	MW-16-111810	8260B	trans-1,3-Dichloropropene	< 3.0 ug/l	UJ	CCAL
280100641	MW-17-111810	8260B	1,3,5-Trimethylbenzene	0.36 ug/l	J	BRL
280100641	MW-17-111810	8260B	4-Isopropyltoluene	0.30 ug/l	J	BRL
280100641	MW-17-111810	8260B	Isopropylbenzene	0.44 ug/l	J	BRL
280100641	MW-17-111810	8260B	n-Propylbenzene	0.52 ug/l	J	BRL
280100641	MW-17-111810	8260B	sec-Butylbenzene	0.63 ug/l	J	BRL
280100641	MW-17-111810	8260B	Toluene	0.18 ug/l	J	BRL
280100641	MW-17-111810	8260B	trans-1,3-Dichloropropene	< 3.0 ug/l	UJ	CCAL
280100641	MW-18-111810	8260B	sec-Butylbenzene	1.6 ug/l	J	BRL
280100641	MW-19-111810	8260B	Methylene Chloride	< 2.0 ug/l	U	MB, BRL, original result was 0.44 ug/L
280100641	MW-19-111810	8260B	trans-1,3-Dichloropropene	< 3.0 ug/l	UJ	CCAL
280100641	MW-22-111810	8260B	4-Isopropyltoluene	0.65 ug/l	J	BRL
280100641	MW-22-111810	8260B	Methylene Chloride	< 2.0 ug/l	U	MB, BRL, original result was 0.49 ug/L
280100641	MW-22-111810	8260B	o-Xylene	0.22 ug/l	J	BRL
280100641	MW-22-111810	8260B	Toluene	0.31 ug/l	J	BRL
280100641	MW-22-111810	8260B	trans-1,3-Dichloropropene	< 3.0 ug/l	UJ	CCAL
280100641	MW-22-111810	8260B	Xylenes, Total	0.22 ug/l	J	BRL
280100641	MW-DUP-111810	8260B	4-Isopropyltoluene	0.66 ug/l	J	BRL
280100641	MW-DUP-111810	8260B	Methylene Chloride	< 2.0 ug/l	U	MB, BRL, original result was 0.45 ug/L
280100641	MW-DUP-111810	8260B	o-Xylene	0.21 ug/l	J	BRL
280100641	MW-DUP-111810	8260B	Toluene	0.29 ug/l	J	BRL
280100641	MW-DUP-111810	8260B	trans-1,3-Dichloropropene	< 3.0 ug/l	UJ	CCAL
280100641	MW-DUP-111810	8260B	Xylenes, Total	0.21 ug/l	J	BRL

Qualifier Definitions
J – Estimated concentration
U – Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive
UJ – Undetected result, reporting limit is estimated

Reason Code Definitions
BRL – Reported concentration is greater than the method detection limit (MDL) but less than the reporting limit (RL).
CCAL – Continuing calibration verification outside limits.
MB – Method blank contamination.

Project Name: Maverik				Laboratory: TestAmerica of Arvada, CO		
Project Reference: Kirtland				Sample Matrix: Groundwater		
AECOM Project No.: 60139478.210				Sample Start Date: 11/18/2010		
Validated By/Date Validated: Ann Biegelsen / 05/03/2011				Sample End Date: 11/18/2010		
Samples Analyzed: Refer to the Table of Samples Analyzed (page 2).						
Parameters Validated: Volatile Organic Compounds (VOCs) by SW846 method 8260B.						
Laboratory Sample Delivery Group (SDG) IDs: 280-10064-1						
PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT						
Precision:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Precision is the measure of variability of individual sample measurements. Field precision was determined by comparison of field duplicate sample results. Laboratory precision was determined by examination of laboratory duplicate results. Evaluation of both field and laboratory duplicates for precision was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate samples divided by the mean and expressed as a percent. Field duplicate RPD QC limits were set at 0-30% for water samples. Laboratory RPD limits referenced EPA published QC limits. No data require qualification based on field or laboratory duplicate precision measurements, and overall field and laboratory precision is acceptable. Precision measurements are reviewed in items 17, 20, and 21.						
Accuracy:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Field accuracy, a measure of the sampling bias, could not be determined as there were no trip blank, field blank, or equipment rinse blank samples included in this sampling set. Laboratory accuracy is a measure of the system bias, and was measured by evaluating laboratory control sample/laboratory control sample duplicate (LCS/LCSD), matrix spike/matrix spike duplicate (MS/MSD), and organic system monitoring compounds (surrogate) percent recoveries (%Rs). LCS/LCSD %Rs, which demonstrated the overall performance of the analysis, were compared to EPA published QC limits. MS/MSD %Rs, which provided information on sample matrix interferences, were compared to EPA published QC limits or laboratory control charted limits. System monitoring compound or surrogate recoveries, which measured system performance and efficiency during organic analysis, were compared to EPA published QC limits or laboratory control charted limits. No data require qualification based on laboratory accuracy measurements, and overall laboratory accuracy is acceptable. Accuracy measurements are reviewed in items 12, 14, 15 and 16.						
Method Compliance:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Method compliance was determined by evaluating sample integrity, holding time, system performance checks, initial and continuing instrument calibrations, laboratory blanks, internal standards, and target analyte identification against method specified requirements, while applying EPA data validation guidelines. Although some data require qualification based on analytes detected with concentrations less than the reporting limits but greater than the method detection limits (see item 6), laboratory method blank contamination (see item 11), or instrument calibration outliers (see item 13), overall method compliance is acceptable based on the supplied data. Method compliance measurements are reviewed in items 4, 6, 8, 11, 13, 18, 19, 20 and 22.						
Completeness:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with validated analyses. Completeness goals are set at 90-100%. Determination of completeness included a review of chain of custody records, laboratory analytical methods and detection limits, laboratory case narratives, and project requirements. Completeness also included 100% review of the laboratory sample data results, QC summary reports, and electronic data deliverables (EDDs). All of the data received from the laboratory are useable with qualification. Completeness of the data is calculated to be 100% and is acceptable.						

VALIDATION CRITERIA CHECK						
Data validation qualifiers used in this review: J – detected result, estimated concentration UJ – undetected result, reporting limit is estimated U – result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive The following comments requiring qualification are in bold type. The other comments are of interest, but qualification of the sample data was not necessary. Refer to the Table of Qualified Analytical Results (page 3) for a listing of the samples, analytes, and concentrations qualified.						
1. Did the laboratory identify any non-conformances related to the analytical results?	**X**	Yes		No	AB	Initials
Explanation by laboratory: General Comments: Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value. All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below. Sample Receipt: The samples were received on 11/20/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.4 C. Method 8260B: Due to the nature of the sample matrix, a reduced aliquot size had to be used for the analysis of sample MW-18. The reporting limits have been elevated accordingly. The laboratory noted that the sample matrix was very foamy. Methylene Chloride, a common laboratory contaminant, was detected in the method blank associated with batch 280-43492 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated samples reported a result above the MDL and/or RL, the result has been “B” flagged. MS and MSD analysis were performed on sample MW-21, as requested (batch 280-43324). The MS and MSD exhibited spike compound recoveries outside the control limits. The LCS was within control limits. The MS/MSD associated with batch 280-43492 exhibited spike compound recoveries outside the control limits. The LCS was within control limits. *Additionally, assigned laboratory flags were considered as part of this data review. Data qualification, if any, related to the laboratory observations are discussed in the following sections.*						
2. Were sample Chain-of-Custody forms complete?	**X**	Yes		No	AB	Initials
Comments: COC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt.						
3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	**X**	Yes		No	AB	Initials
Comments: All requested analyses as documented on original COC records were completed by the laboratory.						
4. Were samples received in good condition and at the appropriate temperature?	**X**	Yes		No	AB	Initials
Comments: Samples were received on ice, intact, and in good condition with cooler temperatures within the 4°C ± 2°C acceptance range at 3.4°C as noted in the laboratory case narrative and on the COC.						

5. Were the requested analytical methods in compliance with WP/QAPP, permit, or COC?	**X**	Yes		No	AB	Initials
Comments: Reported methods and target analyte lists were in compliance with COC records.						
6. Were detection limits in accordance with WP/QAPP, permit, or method?	**X**	Yes		No	AB	Initials
Comments: Reported detection limits are achievable by the quoted methods. One sample required dilution due matrix interference. The reporting limits for the diluted results were raised appropriately. *Note: For diluted samples, the laboratory hard copy report and EDD tables do not indicate the final resulting dilution factor applied. The dilution factor applied to the sample can be determined by dividing the final volume by the initial volume. Dilution factors were entered into the EDD tables by the data validator.* **Analytes reported with concentrations below the laboratory reporting limits (RLs), but above the laboratory method detection limits (MDLs), were qualified as J to indicate that the concentrations are estimated. The quantitation of analytes with concentrations outside the calibration range of the instrument is inherently less reliable.** Refer to the Table of Qualified Analytical Results (page 3) for a listing of the samples, analytes, and concentrations qualified.						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	**X**	Yes		No	AB	Initials
Comments: Reported target analytes were consistent with COC requests.						
8. Were sample holding times met?	**X**	Yes		No	AB	Initials
Comments: Extraction and analytical holding times were met for all samples and analyses.						
9. Were correct concentration units reported?	**X**	Yes		No	AB	Initials
Comments: Correct concentration units were reported. All parameters are reported in units of µg/L (ppb).						
10. Were the reporting requirements for flagged data met?	**X**	Yes		No	AB	Initials
Comments: Data validation qualifiers override assigned laboratory flags.						
11. Were laboratory blank samples free of target analyte contamination?		Yes	**X**	No	AB	Initials
Comments: All laboratory blanks were free of target analyte contamination with the following exception. **<u>Method 8021B</u>: The laboratory blank sample associated with laboratory batch 280-43492 reported methylene chloride with a concentration below the reporting limit at 0.455 µg/L. This analyte was also detected in associated samples MW-10-111810, MW-19-111810, MW-22-111810, and MW-DUP-111810 with concentrations less than the reporting limit and was qualified as U at the reporting limit to indicate that it was evaluated to be undetected and that the result is considered to be a false positive due to laboratory contamination.** Refer to the Table of Qualified Analytical Results (page 3) for a listing of the samples, analytes, and concentrations qualified.						
12. Were trip blank, field blank, and/or equipment rinse blank samples free of target analyte contamination?	NA	Yes	NA	No	AB	Initials
Comments: There were no trip, field or equipment rinse blank samples included in this data set. Field accuracy was not evaluated as part of this data review.						

13. Were instrument calibrations within method control limits?		Yes	**X**	No	AB	Initials
Comments: Instrument calibrations were within data validation and/or method specified criteria, or else noncompliant calibrations were not associated with reported sample results with the exception noted below. The frequency of instrument calibrations was sufficient for the reported method. Initial instrument calibrations had averaged relative standard deviations for all target compounds ≤15% or maintained a linear fit with regression coefficient values of >0.99. All relative response factors (RRFs) for target compounds were above the lower limits specified in the National Functional Guidelines for Organic Data Review. **Method 8260B: In the continuing calibration (CCAL) analyzed on instrument MSV_G2 12/01/2010 at 17:05, the %Difference (%D) for trans-1,3-dichloropropene was outside the ≤25% criteria at 25.6%. Analysis of samples MW-10-111810, MW-16-111810, MW-17-111810, MW-19-111810, MW-22-111810, and MW-DUP-111810 are associated with this CCAL. This analyte has been qualified as UJ in these samples to indicate the undetected results have estimated reporting limits.** Refer to the Table of Qualified Analytical Results (page 3) for a listing of the samples, analytes, and concentrations qualified.						
14. Were surrogate recoveries within control limits?	**X**	Yes		No	AB	Initials
Comments: Surrogate percent recoveries (%Rs) for organic analyses were within data validation QC criteria for all samples.						
15. Were laboratory control sample recoveries within control limits?	**X**	Yes		No	AB	Initials
Comments: LCS and LCSD (blank spike) recoveries were within data validation or laboratory control-charted QC limits for all target analytes.						
16. Were matrix spike recoveries within control limits?		Yes	**X**	No	AB	Initials
Comments: Project specific MS and MSD recoveries for target analytes were within data validation QC limits, except as noted below. MS and MSD spike recoveries for non-project samples were not considered since matrix similarity to project samples could not be guaranteed. Method 8260B: In the MS/MSD of sample MW-21-111811, the %R of bromoform was outside the laboratory QC limits of 74-121% at 73% in the MS, the %R of carbon tetrachloride was outside the laboratory QC limits of 80-120% at 79% in the MS, and the %R of 4-methyl-2-pentanone was outside the laboratory QC limits of 65-120% at 122% in the MSD. Two of the three QC elements (MS %R, MSD %R, and MS/MSD RPD) are within QC limits for these compounds in this MS/MSD pair and all %Rs are greater than 10%. Professional judgment determines any potential bias for these compounds is not confirmed and no data require qualification based on these MS/MSD %R outliers.						
17. Were RPDs within control limits?	**X**	Yes		No	AB	Initials
Comments: Laboratory RPDs for target analytes in LCS/LCSD and project-specific MS/MSD samples were within data validation control limits. All laboratory duplicate samples met data validation RPD criteria. Laboratory duplicates for non-project samples were not considered since matrix similarity to project samples could not be guaranteed.						
18. Were organic system performance criteria met?	**X**	Yes		No	AB	Initials
Comments: GC/MS method 8260B BFB tunes were within ion abundance and 12-hour clock method criteria for all analytical sequences.						
19. Were internal standards within method criteria for GC/MS sample analyses?	**X**	Yes		No	AB	Initials
Comments: Internal standards were within method criteria for all GC/MS samples and analyses.						
20. Were inorganic system performance criteria met?	NA	Yes	NA	No	AB	Initials
Comments: Not applicable to this data set – There were no inorganic parameters requested or reported for the associated samples.						

21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.	X	Yes		No	AB	Initials

Duplicate Sample No.	MW-DUP	Primary Sample No.	MW-22

Comments: The RPDs for the duplicates were within the 0-30% data validation QC limits for water samples, or RPDs were not applicable due to results that were ± the detection limit or were undetected in both samples as indicated in the table below. Field duplicate and native sample concentrations that were both undetected are not reflected in the table below since RPDs are not applicable.

The following RPDs were calculated:

Method	Analyte	MW-22	MW-DUP	RPD	Qualifier	Samp MRL	Dup MRL	Units
8260B	1,2,4-Trimethylbenzene	12	12	0.00		1.0	1.0	ug/l
8260B	4-Isopropyltoluene	0.65	0.66	1.53		1.0	1.0	ug/l
8260B	Benzene	16	16	0.00		1.0	1.0	ug/l
8260B	Ethylbenzene	22	22	0.00		1.0	1.0	ug/l
8260B	Isopropylbenzene	5.8	5.9	1.71		1.0	1.0	ug/l
8260B	Methylene Chloride	2.0	2.0	0.00		2.0	2.0	ug/l
8260B	Naphthalene	1.5	1.4	6.90		1.0	1.0	ug/l
8260B	n-Propylbenzene	14	14	0.00		1.0	1.0	ug/l
8260B	o-Xylene	0.22	0.21	4.65		1.0	1.0	ug/l
8260B	sec-Butylbenzene	2.7	3.3	20.00		1.0	1.0	ug/l
8260B	Toluene	0.31	0.29	6.67		1.0	1.0	ug/l
8260B	Xylenes, Total	0.22	0.21	4.65		2.0	2.0	ug/l

No data require qualification based on the field duplicate precision measurements.

22. Were qualitative criteria for organic target analyte identification met?	X	Yes		No	AB	Initials

Comments: Retention times and chromatography were reviewed by trained laboratory personnel in accordance with the laboratory's internal QA/QC program. No data outliers were noted, therefore, further review of sample chromatograms during data validation was not required.

23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	X	Yes		No	AB	Initials

Comments: There were no discrepancies between the EDD concentrations and reporting limits and the hardcopy data reports. The *practical_quantitation_limit* field of the EDD res table was populated with the adjusted reporting limit value. Qualifiers and reason codes were added to the EDD. The sampled time for the blind field duplicate sample was changed from 00:00 to 10:35 to match the time of collection of the primary sample. Where analytical dilution factors were not equal to one, they were calculated and entered in the *dilution_factor* field of the EDD. The edited EDD files were returned to the AECOM project manager with this data validation report 05/03/2011.

24. General Comments: Data were evaluated based on validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-08-01, June 2008 with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008 of October 1999, as they applied to the reported methodology. Field duplicate RPD control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

Refer to the Table of Qualified Analytical Results (page 3) for a listing of the samples, analytes, and concentrations qualified.

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April 26, 2012

Glenn von Gonten
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject: **2011 Annual Groundwater Report, Maverik Country Stores (Former Caribou Refinery), Kirtland, New Mexico**

Dear Mr. von Gonten:

This report provides results of the 2011 groundwater monitoring event for the Maverik Country Stores site (former Caribou Refinery) in Kirtland, New Mexico (**Figure 1**). This monitoring event was completed during the week of November 14, 2011 to meet the annual monitoring requirements for the site. The scope of work completed included:

- Fluid level measurements of 21 on-site and off-site wells;
- Low-flow groundwater sampling of nine wells in and around the impoundment area; and
- Analytical evaluation of volatile organic compounds (VOCs) in groundwater.

Field methods, results, and conclusions from the 2011 groundwater sampling event are discussed below.

Groundwater Sampling

Groundwater sampling activities were completed on November 16 and November 17, 2011. Prior to well sampling, site-wide fluid levels were measured using an oil/water interface probe to establish groundwater elevations (**Table 1**) for compilation of the site potentiometric surface map (**Figure 2**). Fluid levels were not obtainable from two of the site wells including:

- MW-04 (has been converted to an irrigation well within a pump house by Mr. Roland Jackson); and
- MW-06 (unable to locate, possibly abandoned or destroyed).

None of the monitoring wells contained measurable thicknesses of light non-aqueous phase liquid (LNAPL) during this event. Based on the November 2011 groundwater elevations, the groundwater flow direction is to the south-southwest across the site toward the San Juan River. A horizontal gradient was calculated ranging from 0.012 ft/ft near the northern portion site to 0.009 ft/ft the southern portion of the site in the residential area (**Figure 2**). This flow direction is consistent with past monitoring events.

Nine monitoring wells were sampled as part of the regular annual groundwater sampling event utilizing low flow sampling methods as specified in the work plan. In addition to the nine annually sampled wells, monitoring wells MW-3, MW-5, MW-7, MW-14, and MW-15 were sampled as part of an off-site investigation requested by the Oil Conservation Division (OCD). All wells were sampled utilizing a peristaltic pump and flow-through cell. Field parameters measured during the sampling event included pH, specific conductance, dissolved oxygen (DO), oxygen reduction potential (ORP) and temperature. Field measurements are provided on the groundwater sampling forms in **Attachment A**. Groundwater samples were delivered to Test America in Arvada, Colorado under chain of custody protocol and analyzed for volatile organic compounds (VOCs) using EPA Method 8260. Laboratory deliverables and AECOM data validation reports are provided in **Attachment B**.

Results of the groundwater sampling for the nine annually sampled monitoring wells are summarized in **Table 2**. The groundwater results show that constituents of concern, benzene, toluene, ethyl benzene, and xylene (BTEX) concentrations are confined to the slurry wall impoundment area (**Figure 3**). Other detected compounds from within the slurry wall wells (MW-17 and MW-22) included 1,2,4 trimethylbenzene, 4-isopropyltoluene, isopropylbenzene, n-propylbenzene, sec-butylbenzene, tert-butylbenzene, and naphthalene (**Table 2**). The VOC concentrations in the down-gradient wells (MW-10, MW-19, and MW-20) outside the slurry wall and cross gradient wells (MW-9, MW-16, and MW-21) showed concentrations below the standard analytical reporting limits for VOCs (**Table 2**). The up-gradient well, MW-18, located on the northern edge of the slurry wall had estimated concentrations below the standard analytical reporting limits for VOCs. The precision, accuracy, method compliance, and completeness of the laboratory data set have been determined to be acceptable, based on the data submitted (**Attachment B**).

Results of the groundwater sampling for the five additional off-site wells are summarized in **Table 3**. The groundwater results demonstrate that no constituents of concern were detected in these monitoring wells, with the exception of estimated concentrations of 1,4-dichlorobenzene and chloroform in monitoring well MW-15. Estimated concentrations of 1,4-dichlorobenzene and chloroform found in MW-15 were 0.25 µg/l and 0.27 µg/l, respectively. The results of this sampling demonstrate that there is no migration of constituents from the former refinery to the five additional monitoring wells. The precision, accuracy, method compliance, and completeness of the laboratory data set have been determined to be acceptable, based on the data submitted (**Attachment B**).

Groundwater field parameters pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured using a flow through cell and YSI 556 MPS during groundwater sampling (**Attachment A**). Well MW-21 on the east side of the impoundment has a conductivity level greater than an order of magnitude above other sites wells. Well MW-18 on the north side of the impoundment also demonstrated a higher level of conductivity, before being purged dry, than the other site wells. The elevated conductivity in these wells is presumed to be from salt solutions that are used and stored at the neighboring property.

Summary and Conclusions

The annual groundwater sampling at the former Caribou Refinery was completed in the week of November 14, 2011. Nine wells in and around the slurry wall impoundment area and five off-site wells were sampled using low-flow methods for VOCs. Fluid levels were measured in 21 wells to establish groundwater flow conditions. Groundwater flow is to the south-southwest across the site toward the San Juan River. Groundwater results were below analytical reporting limits for all 8260 VOCs with the exception of wells located within the slurry wall impoundment area (MW-17 and MW-22). Groundwater concentrations within the slurry wall contain a suite of VOCs, primarily benzene, ethylbenzene, xylenes, and trimethylbenzene compounds. The maximum benzene concentration was 34 µg/L in MW-17.

Through time the groundwater VOC concentrations have declined appreciably, likely through biodegradation processes. Compounds such as 1,2-Dichloroethane are no longer detected in site groundwater and VOCs such as benzene have decreased since the early 1990s. Overall, the slurry wall impoundment is functioning as designed and no off-site migration of constituents of concern is occurring.

Sincerely,

Catherine Oakleaf

Catherine Oakleaf
Staff Engineer

Jason Jayroe
Project Manager

Tables

Table 1 – Groundwater Elevation Table
Table 2 – Analytical Results Table, Annually Sampled Monitoring Wells
Table 3 – Analytical Results Table, Additional Off-Site Monitoring Wells

Figures

Figure 1 – Site Location Map
Figure 2 – Potentiometric Surface Map, November 2011
Figure 3 – BTEX Concentration Map, November 2011

Attachments

Attachment A – Groundwater Sampling Logs
Attachment B – Laboratory Data and Data Validation

Tables

Table 1 Monitoring Well Construction Summary and November 2011 Fluid Levels, Maverik Country Stores, Inc. (Former Caribou Refinery)

Well ID	Completion Date	Total Depth (ft. BGS)	Well Diameter (in.)	Top of Steel Casing Elevation (ft. AMSL)	Top of PVC Casing Elevation (ft. AMSL)	Ground Surface Elevation (ft. AMSL)	Top of Screen (ft. BGS)	Bottom of Screen (ft. BGS)	Screen Length (ft.)	Top of Screen Elevation (ft. AMSL)	Bottom of Screen Elevation (ft. AMSL)	Depth to Groundwater (feet) November 2011	Product Thickness (feet)	Groundwater Elevation (ft. AMSL)	Comments
MW-1	1987	21.5	2	5207.79	5207.24	5205.75	11.5	21.5	10	5194.25	5184.25	10.45	NA	5196.79	
MW-2	1987	15	2	5197.10	5196.93	5195.25	5	15	10	5190.25	5180.25	6.4	NA	5190.53	
MW-3	1987	14.5	2	5183.00	5181.46	5181.06	4.5	14.5	10	5176.56	5166.56	2.45	NA	5179.01	
MW-4	1987	15	2	5178.41	5177.1	5176.14	5	15	10	5171.14	5161.14	NM	NA	NM	Converted to irrigation well
MW-5	1987	15	2	5175.62	5175.09	5173.67	5	15	10	5168.67	5158.67	6.24	NA	5168.85	
MW-6	1987	15.5	2	5176.40	5176.01	5174.23	5.5	15.5	10	5168.73	5158.73	NM	NA	NM	Well not located
MW-7	1987	15	2	5183.71	5182.84	5181.73	5	15	10	5176.73	5166.73	6.44	NA	5176.40	
MW-8	1987	15	2	5186.00	5185.87	5184.02	5	15	10	5179.02	5169.02	4.68	NA	5181.19	
MW-9	1987	15	2	5191.39	5191.22	5189.33	5	15	10	5184.33	5174.33	4.08	NA	5187.14	
MW-10	1987	12.5	2	5189.80	5189.30	5187.47	2.5	12.5	10	5184.97	5174.97	4.03	NA	5185.27	
MW-11	1987	33	2	5197.26	5197.15	5194.97	23	33	10	5171.97	5161.97	NM	NA	NM	Abandoned 1990
MW-12	1987	12	2	5196.66	5196.19	5194.80	2	12	10	5192.80	5182.80	NM	NA	NM	Abandoned 1990
MW-13	1987	5	2	5187.76	NA	5187.56	0	5	5	5187.56	5182.56	NM	NA	NM	Destroyed
MW-14	1989	6	2	NA	5194.47	5190.70	1	6	5	5189.70	5184.70	7.22	NA	5187.25	
MW-15	1989	6	2	NA	5188.80	5185.40	1	6	5	5184.40	5179.40	4.29	NA	5184.51	
MW-16	1990	13	2	NA	5194.98	5193.74	3	13	10	5190.74	5180.74	5.55	NA	5189.43	
MW-17	1993	15	2	5196.49	5195.91	5193.43	5	15	10	5188.43	5178.43	8.27	NA	5187.64	
MW-18	1993	15	2	5202.27	5201.75	5199.14	5	15	10	5194.14	5184.14	10.62	NA	5191.13	
MW-19	1990	12.5	2	NA	5189.54	5188.28	2.5	12.5	10	5185.78	5175.78	2.97	NA	5186.57	
MW-20	1990	12	2	NA	5191.05	5190.10	2	12	10	5188.10	5178.10	4.37	NA	5186.68	
MW-21	1990	13	2	NA	5194.81	5193.62	3	13	10	5190.62	5180.62	5.55	NA	5189.26	
MW-22	1990	13	2	NA	5195.86	5194.58	3	13	10	5191.58	5181.58	7.04	NA	5188.82	
P-1	1993	8	2	NA	5197.66	5195.74	3	8	5	5192.74	5187.74	7.47	NA	5190.19	
P-2	1993	8	2	NA	5192.32	5190.50	3	8	5	5187.50	5182.50	4.49	NA	5187.83	
P-3	1993	8	2	NA	5193.21	5191.44	3	8	5	5188.44	5183.44	5.34	NA	5187.87	
P-4	1993	8	2	NA	5198.82	5197.06	3	8	5	5194.06	5189.06	9.01	NA	5189.81	

Notes:

AMSL = Above mean sea level
BGS = Below ground surface
NM = Not Measured
NA = Not Applicable
ft =feet
in = inches

Table 2 Groundwater Results, Annually Sampled Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Chemical Name	Groundwater Standard*	Unit	MW-09	MW-10	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22
1,1,1,2-Tetrachloroethane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	60	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	10	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	25	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	NS	µg/l	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NS	µg/l	<1.0	<1.0	<1.0	**3.3**	**0.34 J**	<1.0	<1.0	<1.0	**1.1**
1,2-Dibromo-3-chloropropane (DBCP)	NS	µg/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	10	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethene (total)	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	NS	µg/l	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
2-Chlorotoluene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	NS	µg/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Isopropyltoluene	NS	µg/l	<1.0	<1.0	<1.0	**0.48 J**	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone	NS	µg/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	NS	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	µg/l	<1.0	<1.0	<1.0	**34**	<1.0	<1.0	<1.0	<1.0	**5.9 J**
Bromobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103

NS - No Standard

J - Estimated result. Result is less than RL

B - Chemical found in Blank

Bold - Detected result

Highlighted - Result Exceeds New Mexico Groundwater Standard

Table 2 Groundwater Results, Annually Sampled Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Chemical Name	Groundwater Standard*	Unit	MW-09	MW-10	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22
Bromoform	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	100	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	750	µg/l	<1.0	<1.0	<1.0	**4**	<1.0	<1.0	<1.0	<1.0	**3.1 J**
Hexachlorobutadiene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	NS	µg/l	<1.0	<1.0	<1.0	**0.44 J**	**0.28 J**	<1.0	<1.0	<1.0	**0.92 J**
Methyl tert-butyl ether	NS	µg/l	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	100	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m-Xylene & p-Xylene	NS	µg/l	<2.0	<2.0	<2.0	**8.1**	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	30	µg/l	<1.0	<1.0	<1.0	**0.60 J**	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NS	µg/l	<1.0	<1.0	<1.0	**0.39 J**	**0.19 J**	<1.0	<1.0	<1.0	**1.6**
o-Xylene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NS	µg/l	<1.0	<1.0	<1.0	**0.70 J**	**0.47 J**	<1.0	<1.0	<1.0	<1.0
Styrene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NS	µg/l	<1.0	<1.0	<1.0	**0.20 J**	**0.97 J**	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	NS	µg/l	<1.0	<1.0	<1.0	**0.42 J**	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NS	µg/l	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Trichloroethene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	1	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	100	µg/l	<2.0	<2.0	<2.0	**8.1**	<2.0	<2.0	<2.0	<2.0	<2.0

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103
NS - No Standard
J - Estimated result. Result is less than RL
B - Chemical found in Blank
Bold - Detected result
Highlighted - Result Exceeds New Mexico Groundwater Standard

Table 3 Groundwater Results, Additional Off-Site Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Chemical Name	Groundwater Standard*	Unit	MW-3	MW-5	MW-7	MW-14	MW-15
1,1,1,2-Tetrachloroethane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	60	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	10	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	25	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	5	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	NS	µg/l	<2.5	<2.5	<2.5	<2.5	<2.5
1,2,4-Trichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane (DBCP)	NS	µg/l	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane (EDB)	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	10	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethene (total)	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	**0.25 J**
2,2-Dichloropropane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	NS	µg/l	<6.0	<6.0	<6.0	<6.0	<6.0
2-Chlorotoluene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	NS	µg/l	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorotoluene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
4-Isopropyltoluene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
4-Methyl-2-pentanone	NS	µg/l	<5.0	<5.0	<5.0	<5.0	<5.0
Acetone	NS	µg/l	<10	<10	<10	<10	<10
Benzene	10	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0
Carbon tetrachloride	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	100	µg/l	<1.0	<1.0	<1.0	<1.0	**0.27 J**
Chloromethane	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0
cis-1,2-Dichloroethene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene	750	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachlorobutadiene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	NS	µg/l	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	100	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0
m-Xylene & p-Xylene	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0
Naphthalene	30	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	NS	µg/l	<3.0	<3.0	<3.0	<3.0	<3.0
Trichloroethene	NS	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	NS	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl chloride	1	µg/l	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	100	µg/l	<2.0	<2.0	<2.0	<2.0	<2.0

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103

NS - No Standard

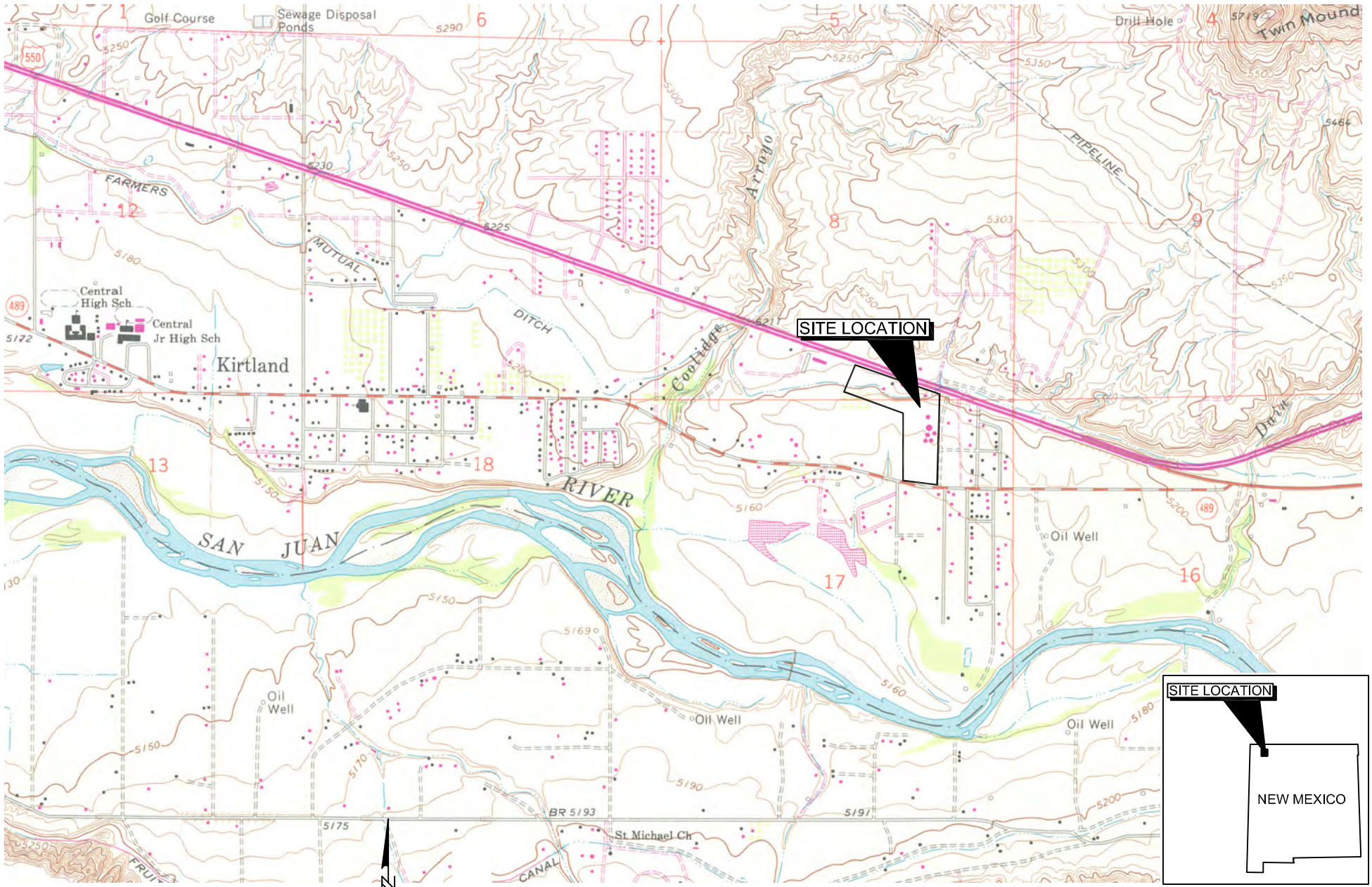
J - Estimated result. Result is less than RL

B - Chemical found in Blank

Bold - Detected result

Figures

File: Z:\Maverik\2011\Annual GW Sampling Report 2011\AGWR10_Figure 1 Site Location Map.dwg Layout: FIGURE 1 User: oakleafc Plotted: Jan 13, 2012 – 1:36pm Xref's:

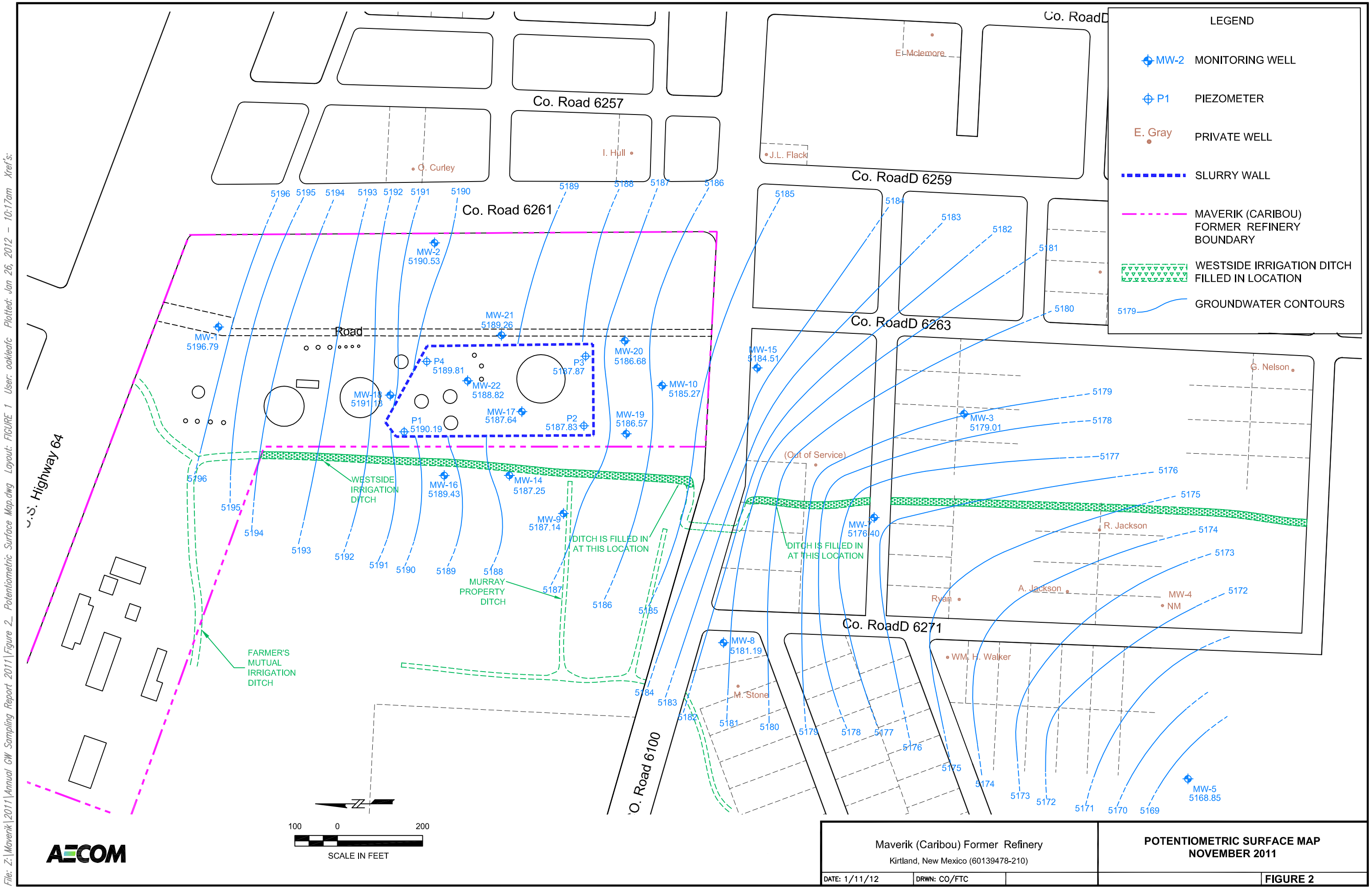


AECOM

2011 Annual Groundwater Report
Maverik (Caribou) Former Refinery
Kirtland, New Mexico (60139478-210)

SITE LOCATION MAP

DATE: 1/13/12 | DRWN: EM/FTC | **FIGURE 1**



AECOM

Maverik (Caribou) Former Refinery
Kirtland, New Mexico (60139478-210)

DATE: 1/11/12 | DRWN: CO/FTC

POTENTIOMETRIC SURFACE MAP NOVEMBER 2011

FIGURE 2

File: Z:\Maverik\2011\Annual GW Sampling Report 2011\Figure 2_ Potentiometric Surface Map.dwg Layout: FIGURE 1 User: oakleafc Plotted: Jan 26, 2012 - 10:17am Xref's:

LEGEND

MW-2 MONITORING WELL

P1 PIEZOMETER

E. Gray PRIVATE WELL

SLURRY WALL

MAVERIK (CARIBOU) FORMER REFINERY BOUNDARY

WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

BTEX CONCENTRATION IN MONITORING WELLS

Chemical (ug/L)	MW-17-111611
Benzene	34
Ethylbenzene	4
Toluene	0.42 J
Xylenes (total)	8.1

Chemical (ug/L)	MW-22-111611	MW-DUP-111611
Benzene	5.9 J	4.3 J
Ethylbenzene	3.1 J	2.1 J
Toluene	<1.0	<1.0
Xylenes (total)	<2.0	<2.0

Chemical (ug/L)	MW-17-111611
Benzene	34
Ethylbenzene	4
Toluene	0.42 J
Xylenes (total)	8.1

Chemical (ug/L)	MW-20-111611
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-21-111611
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-15-111711
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-18-111611
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-3-111711
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-16-111611
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-7-111711
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-14-111711
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-5-111711
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-09-111611
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-19-111611
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Chemical (ug/L)	MW-10-111611
Benzene	<1.0
Ethylbenzene	<1.0
Toluene	<1.0
Xylenes (total)	<2.0

Co. RoadD 6255
Co. Road 6257
Co. RoadD 6259
Co. Road 6261
Co. RoadD 6263
Co. RoadD 6271
U.S. Highway 64
Road
E. Gray
I. Hull
J.L. Flack
R. Neff
A. Jackson
Ryan
WM. H. Walker
M. Stone
(Out of Service)
MW-2
MW-3
MW-4
MW-5
MW-7
MW-8
MW-9
MW-10
MW-14
MW-15
MW-16
MW-17
MW-18
MW-19
MW-20
MW-21
MW-22
P1
P2
P3
P4
WESTSIDE IRRIGATION DITCH
MURRAY PROPERTY DITCH
DITCH IS FILLED IN AT THIS LOCATION
IRRIGATION DITCH

100 0 200
SCALE IN FEET

AECOM

2011 Annual Groundwater Report
Maverik (Caribou) Former Refinery
Kirtland, New Mexico (60139478-210)

DATE: 1/13/12 | DRWN: CO/FTC

BTEX Concentration in Groundwater November 2011

FIGURE 3

File: Z:\Maverik\2011\Annual GW Sampling Report 2011\Figure 3_BTEX Concentrations.dwg Layout: FIGURE 1 User: oakleafc Plotted: Jan 13, 2012 – 2:29pm Xref's:

Attachment A

Groundwater Sampling Logs

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-3
Sampler(s): JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 0945

Purge Method: Peristaltic
Depth to water (ft): 2.45
Depth to product (ft): ND
Total depth (ft): 14.87
Water column thickness (ft): 5.96
One Purge Volume (gal): ~15.0

Groundwater Field Parameters

Date: 11/16/11 Start Time:

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
0948	0.10	8.84	2.686	15.17	13.67	-469.4	Clear
0851	0.25	8.48	2.716	15.69	8.86	-470.4	Clear
0854	0.45	8.45	2.700	15.14	5.44	-470.5	Clear
0857	0.75	8.43	2.700	15.62	5.02	-470.6	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 0908

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa vials	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-5
Sampler(s): JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 1025

Purge Method: Peristaltic
Depth to water (ft): 6.24
Depth to product (ft): ND
Total depth (ft): 16.56
Water column thickness (ft): 10.32
One Purge Volume (gal): ~5.0

Groundwater Field Parameters

Date: 11/16/11 Start Time: 1025

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
1025	0.25	8.52	2.553	15.84	5.89	-470.1	Clear
1031	0.45	8.43	2.590	16.02	5.27	-471.1	Clear
1035	0.75	8.41	2.596	16.01	5.18	-471.2	Clear
1038	1.05	8.39	2.602	16.05	5.89	-471.3	Clear
1041	1.25	8.38	2.608	16.10	5.01	-471.4	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 1045

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa vials	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-7
Sampler(s): JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 1515

Purge Method: Peristaltic
Depth to water (ft): 6.44
Depth to product (ft): ND
Total depth (ft): 13.41
Water column thickness (ft): 6.97
One Purge Volume (gal): ~3.5

Groundwater Field Parameters

Date: 11/16/11 Start Time: 1520

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
1522	0.12	8.51	2.856	14.62	15.71	-473.2	Cloudy
1528	0.45	8.37	2.875	14.67	7.10	-474.7	Cloudy
1532	0.70	8.33	2.853	14.74	6.12	-474.5	Cloudy
1537	0.95	8.24	2.772	14.79	5.02	-475.6	Cloudy
1542	1.15	8.24	2.770	14.78	5.01	-475.7	Cloudy
1546	1.30	8.23	2.769	14.77	4.94	-475.9	Cloudy

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 1550

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa vials	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-9
Sampler(s): JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 1430

Purge Method: Peristaltic
Depth to water (ft): 4.08
Depth to product (ft): ND
Total depth (ft): 16.68
Water column thickness (ft): 12.6
One Purge Volume (gal): ~6.0

Groundwater Field Parameters

Date: 11/16/11 Start Time: 1440

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
1441	0.25	8.36	2.606	16.26	15.18	-474.1	Clear
1447	0.50	8.31	2.568	16.35	10.84	-476.1	Clear
1453	0.75	8.23	2.516	16.43	4.810	-476.8	Clear
1457	1.00	8.22	2.512	16.44	4.660	-477.0	Clear
1503	1.20	8.21	2.510	16.46	4.610	477.1	Clear
1510	1.35	8.20	2.510	16.46	4.580	-477.2	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 1520

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa vials	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form
Maverik Kirtland, NM

Well ID: MW-10
Sampler: JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 1100

Purge Method: Peristaltic
Depth to water (ft): 4.03
Depth to product (ft): ND
Total depth (ft): 15.24
Water column thickness (ft): 11.21
One Purge Volume (gal): ~5.0

Groundwater Field Parameters

Date: 11/16/11 Start Time: 1100

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
1130	0.20	8.51	1.535	14.56	15.11	-475.1	Clear
1135	0.45	8.48	1.520	14.44	5.00	-476.2	Clear
1139	0.65	8.48	1.517	14.49	4.24	-476.4	Clear
1143	0.85	8.47	1.515	14.37	4.00	-476.5	Clear
1145	1.00	8.46	1.510	14.43	3.70	-476.6	Clear
1148	1.20	8.47	1.511	14.46	3.65	-476.8	Clear
1151	1.45	8.49	1.512	14.45	3.60	-476.8	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 1150

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa vials	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-14
Sampler(s): JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 1410

Purge Method: Peristaltic
Depth to water (ft): 7.22
Depth to product (ft): ND
Total depth (ft): 9.14
Water column thickness (ft): 1.92
One Purge Volume (gal): ~1.0

Groundwater Field Parameters

Date: 11/16/11 Start Time: 1420

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
1423	0.10	8.14	7.937	14.34	12.55	-475.2	Brown
1428	0.25	8.28	7.973	14.07	4.050	-473.6	Brown
1431	0.45	8.25	7.971	14.08	4.010	-473.1	Brown
PURGED DRY AT 0.5 GAL							

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 1445

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa vials	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-15
Sampler(s): JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 0930

Purge Method: Peristaltic
Depth to water (ft): 4.29
Depth to product (ft): ND
Total depth (ft): 10.07
Water column thickness (ft): 5.78
One Purge Volume (gal): ~3.0

Groundwater Field Parameters

Date: 11/16/11 Start Time: 0930

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
0932	0.10	8.51	2.093	13.02	8.06	-470.4	Clear
0935	0.40	8.49	2.066	12.49	5.79	-470.6	Clear
0938	0.70	8.47	2.067	12.33	5.85	-470.8	Clear
0941	0.95	8.48	2.067	12.28	5.87	-470.8	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 0945

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa vials	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-16
Sampler(s): JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 1345

Purge Method: Peristaltic
Depth to water (ft): 5.55
Depth to product (ft): ND
Total depth (ft): 16.64
Water column thickness (ft): 11.09
One Purge Volume (gal): ~5.0

Groundwater Field Parameters

Date: 11/16/11 Start Time: 1354

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
1356	0.20	8.34	6.452	16.28	11.51	-471.4	Clear
1359	0.40	7.92	6.759	15.92	5.08	-477.1	Clear
1405	0.75	7.91	6.761	15.90	5.03	-477.2	Clear
1408	1.00	7.90	6.761	15.85	5.00	-477.2	Clear
1415	1.20	7.90	6.759	15.81	4.94	-477.0	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 1415

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa vials	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-17
Sampler: JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 0915

Purge Method: Peristaltic
Depth to water (ft): 8.27
Depth to product (ft): ND
Total depth (ft): 16.69
Water column thickness (ft): 8.42
One Purge Volume (gal): 4.04

Groundwater Field Parameters

Date: 11/16/11 Start Time: 1030

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
1030	0.30	8.22	2.655	16.96	3.12	287.1	Clear
1035	0.50	8.17	2.652	17.15	3.16	203.2	Clear
1038	0.75	8.20	2.645	17.16	2.94	207.1	Clear
1043	1.00	8.21	2.645	17.15	2.91	192.0	Clear
1046	1.25	8.21	2.643	17.15	2.90	191.1	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 1040

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-18
Sampler: JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 0745

Purge Method: Peristaltic
Depth to water (ft): 10.62
Depth to product (ft): ND
Total depth (ft): 14.65
Water column thickness (ft): 4.03
One Purge Volume (gal): 2.0

Groundwater Field Parameters

Date: 11/16/11 Start Time: 0830

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
0830	0.25	7.8	8.81	17.09	5.59	-411.1	Very Cloudy
PURGED DRY AT 0.5 GAL							

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/17/11 Time: 1400

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-19
Sampler: JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 1000

Purge Method: Peristaltic
Depth to water (ft): 2.97
Depth to product (ft): ND
Total depth (ft): 14.20
Water column thickness (ft): 11.23
One Purge Volume (gal): ~5.0

Groundwater Field Parameters

Date: 11/16/11 Start Time: 1100

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
1100	0.10	8.46	2.435	14.03	17.15	474.1	Clear
1106	0.30	8.35	2.414	14.12	6.91	425.8	Clear
1109	0.50	8.30	2.407	14.07	4.99	475.8	Clear
1113	0.65	8.27	2.403	14.07	4.33	476.5	Clear
1116	0.85	8.23	2.390	14.13	3.51	478.2	Clear
1119	1.05	8.23	2.386	14.15	3.39	476.3	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 1130

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-20
Sampler(s): JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 1310

Purge Method: Peristaltic
Depth to water (ft): 4.37
Depth to product (ft): ND
Total depth (ft): 13.51
Water column thickness (ft): 9.14
One Purge Volume (gal): ~4.5

Groundwater Field Parameters

Date: 11/16/11 Start Time: 1320

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
1324	0.10	8.51	2.888	16.10	9.42	-477.8	Clear
1328	0.35	8.54	2.847	16.53	4.08	-478.5	Clear
1332	0.55	8.54	2.025	16.54	4.05	-478.5	Clear
1336	0.75	8.54	2.002	16.49	4.04	-478.4	Clear
1340	0.95	8.53	1.999	16.57	3.99	-478.2	Clear
1345	1.15	8.52	1.998	16.49	3.97	-478.1	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 1345

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa vials	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-21
Sampler: JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 1245

Purge Method: Peristaltic
Depth to water (ft): 5.55
Depth to product (ft): ND
Total depth (ft): 14.56
Water column thickness (ft): 9.01
One Purge Volume (gal): ~4.5

Groundwater Field Parameters

Date: 11/16/11 Start Time: 1300

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
1307	0.15	7.72	21.27	17.71	10.49	-475.1	Clear
1311	0.40	7.62	20.15	17.37	5.92	-476.2	Clear
1315	0.60	7.63	19.89	17.02	5.48	-476.4	Clear
1318	0.70	7.62	19.74	16.95	5.34	-476.5	Clear
1321	1.00	7.62	19.66	16.83	5.25	-476.6	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 1320

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace

Comments:

Groundwater Sampling Form

Maverik Kirtland, NM

Well ID: MW-22
Sampler: JJ

Well Condition

Visibility: Good
Well Label: OK
Secured: Yes
Surface Pad: OK

Fluid Level/Purge Volume Information

Date: 11/16/11 Time: 0745

Purge Method: Peristaltic
Depth to water (ft): 10.62
Depth to product (ft): ND
Total depth (ft): 14.65
Water column thickness (ft): 4.03
One Purge Volume (gal): 1.93

Groundwater Field Parameters

Date: 11/16/11 Start Time: 0830

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (%)	ORP (mV)	Sample Appearance/Description
0830	0.25	7.81	8.81	17.09	5.59	411.1	Very Cloudy
PURGED DRY AT 0.5 GAL							

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration	11/16/11	0700	YSI 556
pH and SpC Calibration	11/16/11	0700	YSI 556
ORP Calibration	NA	NA	YSI 556

Sample Collection and Analytical Information

Date: 11/16/11 Time: 0845

Laboratory: Test America
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	Vocs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace

Comments:

Attachment B

Laboratory Data and Data Validation

ANALYTICAL REPORT

Job Number: 280-23017-1

Job Description: MAVERICK KIRTLAND NM

For:
AECOM, Inc.
1601 Prospect Parkway
Fort Collins, CO 80525

Attention: Ms. Ann Biegelsen



Approved for release.
Michael T Dedio
Project Mgmt. Assistant
12/14/2011 8:05 AM

Designee for
Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
12/14/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Data Qualifiers 5

Executive Summary 6

Method Summary 8

Method / Analyst Summary 9

Sample Summary 10

Sample Datasheets 11

Surrogate Summary 33

QC Data Summary 34

QC Association Summary 43

Lab Chronicle 44

Reagent Traceability 47

Manual Integration Summary 56

Organic Sample Data 57

GC/MS VOA 57

Method 8260B 57

Method 8260B QC Summary 58

Method 8260B Sample Data 69

Standards Data 180

Method 8260B ICAL Data 180

Method 8260B CCAL Data 240

Raw QC Data 260

Method 8260B Tune Data 260

Method 8260B Blank Data 268

Table of Contents

Method 8260B LCS/LCSD Data 276
Method 8260B MS/MSD Data 283
Method 8260B Run Logs 297
Shipping and Receiving Documents 305
Client Chain of Custody 306
Sample Receipt Checklist 307

CASE NARRATIVE

Client: AECOM, Inc.

Project: MAVERICK KIRTLAND
Task Number: 60139478.210

Report Number: 280-23017-1

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/18/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.8 C.

GC/MS VOLATILES - SW846 8260B

Methylene Chloride, a common laboratory contaminant, was detected in the method blank associated with batch 280-98185 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated samples reported a result above the MDL and/or RL, the result has been “B” flagged.

The LCS associated with batch 280-98185 failed the recovery criteria high for Isopropylbenzene, and the associated sample results have been flagged “*”. As no detectable concentrations of Isopropylbenzene are present in the associated samples, data are reported as is.

The MS and MSD associated with batch 280-98185 exhibited spike compound recoveries outside the control limits. In addition, it can be noted that the sample amount was greater than four times the spike amount for 1,1-Dichloroethane and Methylene chloride; therefore, control limits are not applicable. The LCS was within control limits.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: AECOM, Inc. Job Number: 280-23017-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc. Job Number: 280-23017-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-23017-1	**MW-18-111611**					
Isopropylbenzene		0.28	J *	1.0	ug/L	8260B
n-Propylbenzene		0.19	J	1.0	ug/L	8260B
sec-Butylbenzene		0.47	J	1.0	ug/L	8260B
tert-Butylbenzene		0.97	J	1.0	ug/L	8260B
1,2,4-Trimethylbenzene		0.34	J	1.0	ug/L	8260B
280-23017-2	**MW-22-111611**					
Benzene		5.9		1.0	ug/L	8260B
Ethylbenzene		3.1		1.0	ug/L	8260B
Isopropylbenzene		0.92	J *	1.0	ug/L	8260B
n-Propylbenzene		1.6		1.0	ug/L	8260B
1,2,4-Trimethylbenzene		1.1		1.0	ug/L	8260B
280-23017-3	**MW-17-111611**					
Benzene		34		1.0	ug/L	8260B
Ethylbenzene		4.0		1.0	ug/L	8260B
Isopropylbenzene		0.44	J *	1.0	ug/L	8260B
4-Isopropyltoluene		0.48	J	1.0	ug/L	8260B
m-Xylene & p-Xylene		8.1		2.0	ug/L	8260B
Naphthalene		0.60	J	1.0	ug/L	8260B
n-Propylbenzene		0.39	J	1.0	ug/L	8260B
sec-Butylbenzene		0.70	J	1.0	ug/L	8260B
tert-Butylbenzene		0.20	J	1.0	ug/L	8260B
Toluene		0.42	J	1.0	ug/L	8260B
1,2,4-Trimethylbenzene		3.3		1.0	ug/L	8260B
Xylenes, Total		8.1		2.0	ug/L	8260B
280-23017-4	**MW-19-111611**					
Methylene Chloride		0.56	J B	2.0	ug/L	8260B
280-23017-5	**MW-10-111611**					
Methylene Chloride		0.56	J B	2.0	ug/L	8260B
280-23017-6	**MW-21-111611**					
Methylene Chloride		0.55	J B	2.0	ug/L	8260B
280-23017-7	**MW-20-111611**					
Methylene Chloride		0.55	J B	2.0	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc. Job Number: 280-23017-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-23017-8	**MW-16-111611**					
Methylene Chloride		0.57	J B	2.0	ug/L	8260B
280-23017-9	**MW-9-111611**					
Methylene Chloride		0.52	J B	2.0	ug/L	8260B
280-23017-10	**MW-DUP-111611**					
Benzene		4.3		1.0	ug/L	8260B
Ethylbenzene		2.1		1.0	ug/L	8260B
Isopropylbenzene		0.62	J *	1.0	ug/L	8260B
n-Propylbenzene		1.0		1.0	ug/L	8260B
1,2,4-Trimethylbenzene		0.71	J	1.0	ug/L	8260B
280-23017-11	**TRIP BLANK**					
Acetone		3.2	J	10	ug/L	8260B
Methylene Chloride		0.55	J B	2.0	ug/L	8260B

METHOD SUMMARY

Client: AECOM, Inc. Job Number: 280-23017-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: AECOM, Inc. Job Number: 280-23017-1

Method	Analyst	Analyst ID
SW846 8260B	Tinkham, Sarah A	SAT

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 280-23017-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-23017-1	MW-18-111611	Water	11/16/2011 0830	11/18/2011 1000
280-23017-2	MW-22-111611	Water	11/16/2011 0950	11/18/2011 1000
280-23017-3	MW-17-111611	Water	11/16/2011 1040	11/18/2011 1000
280-23017-4	MW-19-111611	Water	11/16/2011 1130	11/18/2011 1000
280-23017-5	MW-10-111611	Water	11/16/2011 1150	11/18/2011 1000
280-23017-6	MW-21-111611	Water	11/16/2011 1320	11/18/2011 1000
280-23017-7	MW-20-111611	Water	11/16/2011 1345	11/18/2011 1000
280-23017-8	MW-16-111611	Water	11/16/2011 1415	11/18/2011 1000
280-23017-9	MW-9-111611	Water	11/16/2011 1520	11/18/2011 1000
280-23017-10	MW-DUP-111611	Water	11/16/2011 1600	11/18/2011 1000
280-23017-11	TRIP BLANK	Water	11/16/2011 0830	11/18/2011 1000

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-18-111611**

Lab Sample ID: 280-23017-1 Date Sampled: 11/16/2011 0830
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4813.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0016			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0016				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.28	J *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.19	J	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-18-111611**

Lab Sample ID: 280-23017-1 Date Sampled: 11/16/2011 0830
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4813.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0016			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0016				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.47	J	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.97	J	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.34	J	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	113		78 - 120
Dibromofluoromethane (Surr)	91		77 - 120
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	107		80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-22-111611**

Lab Sample ID: 280-23017-2 Date Sampled: 11/16/2011 0950
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4814.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0036			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0036				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	5.9		0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	3.1		0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.92	J *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	1.6		0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-22-111611**

Lab Sample ID: 280-23017-2 Date Sampled: 11/16/2011 0950
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4814.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0036			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0036				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	1.1		0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	117		78 - 120
Dibromofluoromethane (Surr)	93		77 - 120
1,2-Dichloroethane-d4 (Surr)	89		70 - 127
Toluene-d8 (Surr)	111		80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-17-111611**

Lab Sample ID: 280-23017-3 Date Sampled: 11/16/2011 1040
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4815.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0055			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0055				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	34		0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	4.0		0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.44	J *	0.19	1.0
4-Isopropyltoluene	0.48	J	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	8.1		0.34	2.0
Naphthalene	0.60	J	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.39	J	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-17-111611**

Lab Sample ID: 280-23017-3 Date Sampled: 11/16/2011 1040
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4815.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0055			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0055				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.70	J	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.20	J	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.42	J	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	3.3		0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	8.1		0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	110		78 - 120
Dibromofluoromethane (Surr)	87		77 - 120
1,2-Dichloroethane-d4 (Surr)	84		70 - 127
Toluene-d8 (Surr)	106		80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-19-111611**

Lab Sample ID: 280-23017-4 Date Sampled: 11/16/2011 1130
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4816.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0114			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0114				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.56	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-19-111611**

Lab Sample ID: 280-23017-4 Date Sampled: 11/16/2011 1130
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4816.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0114			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0114				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		78 - 120
Dibromofluoromethane (Surr)	91		77 - 120
1,2-Dichloroethane-d4 (Surr)	89		70 - 127
Toluene-d8 (Surr)	108		80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-10-111611**

Lab Sample ID: 280-23017-5 Date Sampled: 11/16/2011 1150
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4817.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0133			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0133				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.56	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-10-111611**

Lab Sample ID: 280-23017-5 Date Sampled: 11/16/2011 1150
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4817.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0133			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0133				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		78 - 120
Dibromofluoromethane (Surr)	91		77 - 120
1,2-Dichloroethane-d4 (Surr)	83		70 - 127
Toluene-d8 (Surr)	110		80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-21-111611**

Lab Sample ID: 280-23017-6 Date Sampled: 11/16/2011 1320
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4818.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0152			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0152				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.55	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-21-111611**

Lab Sample ID: 280-23017-6 Date Sampled: 11/16/2011 1320
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4818.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0152			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0152				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	91		77 - 120
1,2-Dichloroethane-d4 (Surr)	92		70 - 127
Toluene-d8 (Surr)	104		80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-20-111611**

Lab Sample ID: 280-23017-7 Date Sampled: 11/16/2011 1345
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4819.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0211			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0211				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.55	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-20-111611**

Lab Sample ID: 280-23017-7 Date Sampled: 11/16/2011 1345
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4819.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0211			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0211				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	85		77 - 120
1,2-Dichloroethane-d4 (Surr)	81		70 - 127
Toluene-d8 (Surr)	100		80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-16-111611**

Lab Sample ID: 280-23017-8 Date Sampled: 11/16/2011 1415
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4820.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0230			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.57	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-16-111611**

Lab Sample ID: 280-23017-8 Date Sampled: 11/16/2011 1415
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4820.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0230			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	106		78 - 120
Dibromofluoromethane (Surr)	93		77 - 120
1,2-Dichloroethane-d4 (Surr)	88		70 - 127
Toluene-d8 (Surr)	110		80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-9-111611**

Lab Sample ID: 280-23017-9 Date Sampled: 11/16/2011 1520
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4821.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0249			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0249				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.52	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-9-111611**

Lab Sample ID: 280-23017-9 Date Sampled: 11/16/2011 1520
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4821.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0249			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0249				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	89		77 - 120
1,2-Dichloroethane-d4 (Surr)	84		70 - 127
Toluene-d8 (Surr)	108		80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-DUP-111611**

Lab Sample ID: 280-23017-10 Date Sampled: 11/16/2011 1600
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4822.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0309			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0309				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	4.3		0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	2.1		0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.62	J *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	1.0		0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **MW-DUP-111611**

Lab Sample ID: 280-23017-10 Date Sampled: 11/16/2011 1600
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4822.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0309			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0309				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.71	J	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	112		78 - 120
Dibromofluoromethane (Surr)	91		77 - 120
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	108		80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-23017-11 Date Sampled: 11/16/2011 0830
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4807.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2222			Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2222				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	3.2	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.55	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-23017-11 Date Sampled: 11/16/2011 0830
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4807.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2222			Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2222				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	113		78 - 120
Dibromofluoromethane (Surr)	88		77 - 120
1,2-Dichloroethane-d4 (Surr)	81		70 - 127
Toluene-d8 (Surr)	122		80 - 125

Client: AECOM, Inc.

Job Number: 280-23017-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-23017-1	MW-18-111611	91	91	107	113
280-23017-2	MW-22-111611	93	89	111	117
280-23017-3	MW-17-111611	87	84	106	110
280-23017-4	MW-19-111611	91	89	108	106
280-23017-5	MW-10-111611	91	83	110	105
280-23017-6	MW-21-111611	91	92	104	103
280-23017-7	MW-20-111611	85	81	100	98
280-23017-8	MW-16-111611	93	88	110	106
280-23017-9	MW-9-111611	89	84	108	101
280-23017-10	MW-DUP-111611	91	91	108	112
280-23017-11	TRIP BLANK	88	81	122	113
MB 280-98185/5		89	87	107	102
LCS 280-98185/4		88	87	106	106
280-22998-C-2 MS		88	81	106	103
280-22998-C-2 MSD		91	85	108	105

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Client: AECOM, Inc. Job Number: 280-23017-1

Method Blank - Batch: 280-98185

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-98185/5	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4806.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2159	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2159				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.618	J	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Client: AECOM, Inc. Job Number: 280-23017-1

Method Blank - Batch: 280-98185

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-98185/5	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4806.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2159	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2159				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	102	78 - 120
Dibromofluoromethane (Surr)	89	77 - 120
1,2-Dichloroethane-d4 (Surr)	87	70 - 127
Toluene-d8 (Surr)	107	80 - 125

Lab Control Sample - Batch: 280-98185

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-98185/4	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4805.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2135	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2135				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	20.0	16.6	83	48 - 130	
Benzene	5.00	4.61	92	77 - 120	
Bromobenzene	5.00	5.28	106	75 - 120	
Bromodichloromethane	5.00	4.39	88	78 - 120	
Bromoform	5.00	4.45	89	74 - 121	
Bromomethane	5.00	4.42	88	42 - 154	
2-Butanone (MEK)	20.0	18.8	94	57 - 120	
Carbon tetrachloride	5.00	4.80	96	80 - 120	
Chlorobenzene	5.00	5.34	107	78 - 120	
Bromochloromethane	5.00	4.04	81	78 - 120	
Dibromochloromethane	5.00	4.62	92	76 - 120	
Chloroethane	5.00	4.70	94	51 - 133	
Chloroform	5.00	4.60	92	78 - 120	
Chloromethane	5.00	4.68	94	46 - 142	
2-Chlorotoluene	5.00	5.61	112	76 - 120	
4-Chlorotoluene	5.00	5.53	111	78 - 120	
cis-1,2-Dichloroethene	5.00	4.45	89	75 - 120	
cis-1,3-Dichloropropene	5.00	4.19	84	76 - 120	
1,2-Dibromo-3-Chloropropane	5.00	4.61	92	65 - 120	J
1,2-Dibromoethane (EDB)	5.00	4.73	95	77 - 120	
Dibromomethane	5.00	4.07	81	77 - 120	
1,2-Dichlorobenzene	5.00	5.27	105	76 - 120	
1,3-Dichlorobenzene	5.00	5.45	109	75 - 120	
1,4-Dichlorobenzene	5.00	5.43	109	77 - 120	
Dichlorodifluoromethane	5.00	4.08	82	56 - 140	
1,1-Dichloroethane	5.00	4.93	99	77 - 120	
1,2-Dichloroethane	5.00	4.29	86	74 - 120	
1,1-Dichloroethene	5.00	5.12	102	68 - 133	
1,2-Dichloropropane	5.00	4.42	88	76 - 120	
1,3-Dichloropropane	5.00	5.05	101	75 - 120	
2,2-Dichloropropane	5.00	4.92	98	72 - 128	
1,1-Dichloropropene	5.00	4.66	93	75 - 120	
Ethylbenzene	5.00	5.37	107	78 - 120	
Hexachlorobutadiene	5.00	5.40	108	73 - 123	
2-Hexanone	20.0	18.3	92	57 - 121	
Isopropylbenzene	5.00	6.40	128	71 - 120	*
4-Isopropyltoluene	5.00	5.62	112	76 - 120	
Methylene Chloride	5.00	4.98	100	60 - 134	
4-Methyl-2-pentanone	20.0	15.3	76	65 - 120	
Methyl tert-butyl ether	5.00	4.10	82	58 - 120	J
m-Xylene & p-Xylene	10.0	10.8	108	78 - 120	
Naphthalene	5.00	4.69	94	62 - 121	
n-Butylbenzene	5.00	5.73	115	76 - 120	
n-Propylbenzene	5.00	5.59	112	76 - 120	
o-Xylene	5.00	5.17	103	77 - 120	
sec-Butylbenzene	5.00	5.65	113	80 - 120	

Client: AECOM, Inc. Job Number: 280-23017-1

Lab Control Sample - Batch: 280-98185

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-98185/4	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4805.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2135	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2135				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Styrene	5.00	5.06	101	77 - 120	
tert-Butylbenzene	5.00	5.70	114	76 - 120	
1,1,1,2-Tetrachloroethane	5.00	5.07	101	77 - 120	
1,1,2,2-Tetrachloroethane	5.00	5.33	107	73 - 120	
Tetrachloroethene	5.00	5.34	107	77 - 120	
Toluene	5.00	4.46	89	73 - 120	
trans-1,2-Dichloroethene	5.00	4.66	93	80 - 120	
trans-1,3-Dichloropropene	5.00	4.01	80	72 - 120	
1,2,3-Trichlorobenzene	5.00	4.65	93	66 - 123	
1,2,4-Trichlorobenzene	5.00	4.83	97	73 - 121	
1,1,1-Trichloroethane	5.00	4.64	93	78 - 120	
1,1,2-Trichloroethane	5.00	4.16	83	76 - 120	
Trichloroethene	5.00	4.74	95	78 - 122	
Trichlorofluoromethane	5.00	4.60	92	63 - 135	
1,2,3-Trichloropropane	5.00	5.59	112	72 - 120	
1,2,4-Trimethylbenzene	5.00	5.56	111	77 - 120	
1,3,5-Trimethylbenzene	5.00	5.72	114	77 - 120	
Vinyl chloride	5.00	4.75	95	49 - 136	
Xylenes, Total	15.0	16.0	106	77 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	106	78 - 120
Dibromofluoromethane (Surr)	88	77 - 120
1,2-Dichloroethane-d4 (Surr)	87	70 - 127
Toluene-d8 (Surr)	106	80 - 125

Client: AECOM, Inc. Job Number: 280-23017-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98185

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22998-C-2 MS	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4811.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2338			Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2338				
Leach Date:	N/A				

MSD Lab Sample ID:	280-22998-C-2 MSD	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4812.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2357			Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2357				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	98	106	48 - 130	8	41		
Benzene	90	94	77 - 120	3	20		
Bromobenzene	103	106	75 - 120	3	20		
Bromodichloromethane	87	90	78 - 120	3	20		
Bromoform	85	89	74 - 121	5	21		
Bromomethane	77	80	42 - 154	4	24		
2-Butanone (MEK)	91	99	57 - 120	8	32		
Carbon tetrachloride	81	86	80 - 120	6	21		
Chlorobenzene	103	108	78 - 120	5	20		
Bromochloromethane	81	87	78 - 120	7	20		
Dibromochloromethane	88	92	76 - 120	5	20		
Chloroethane	99	99	51 - 133	1	25		
Chloroform	89	93	78 - 120	3	20		
Chloromethane	82	84	46 - 142	3	24		
2-Chlorotoluene	103	109	76 - 120	5	20		
4-Chlorotoluene	103	108	78 - 120	4	20		
cis-1,2-Dichloroethene	92	99	75 - 120	7	20		
cis-1,3-Dichloropropene	82	88	76 - 120	7	20		
1,2-Dibromo-3-Chloropropane	86	91	65 - 120	5	22	J	J
1,2-Dibromoethane (EDB)	92	97	77 - 120	5	20		
Dibromomethane	78	83	77 - 120	6	20		
1,2-Dichlorobenzene	101	105	76 - 120	3	20		
1,3-Dichlorobenzene	103	107	75 - 120	4	20		
1,4-Dichlorobenzene	103	107	77 - 120	3	23		
Dichlorodifluoromethane	62	54	56 - 140	6	24		F
1,1-Dichloroethane	145	135	77 - 120	1	21	4	4
1,2-Dichloroethane	83	90	74 - 120	8	20		
1,1-Dichloroethene	117	116	68 - 133	1	20		
1,2-Dichloroethene, Total	92	97	78 - 120	5	20		
1,2-Dichloropropane	89	94	76 - 120	6	20		
1,3-Dichloropropane	96	101	75 - 120	5	20		
2,2-Dichloropropane	88	92	72 - 128	4	24		
1,1-Dichloropropene	83	87	75 - 120	4	21		

Client: AECOM, Inc. Job Number: 280-23017-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98185

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22998-C-2 MS	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4811.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2338			Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2338				
Leach Date:	N/A				

MSD Lab Sample ID:	280-22998-C-2 MSD	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4812.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2357			Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2357				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ethylbenzene	100	106	78 - 120	5	26		
Hexachlorobutadiene	96	98	73 - 123	2	25		
2-Hexanone	81	86	57 - 121	5	25		
Isopropylbenzene	116	120	71 - 120	4	20		
4-Isopropyltoluene	101	105	76 - 120	3	20		
Methylene Chloride	-53	-96	60 - 134	1	20	E 4	E 4
4-Methyl-2-pentanone	72	77	65 - 120	7	22		
Methyl tert-butyl ether	80	87	58 - 120	8	21	J	J
m-Xylene & p-Xylene	112	114	78 - 120	2	20		
Naphthalene	95	97	62 - 121	3	32		
n-Butylbenzene	100	102	76 - 120	2	21		
n-Propylbenzene	102	105	76 - 120	3	20		
o-Xylene	104	110	77 - 120	5	20		
sec-Butylbenzene	100	103	80 - 120	3	21		
Styrene	99	102	77 - 120	3	20		
tert-Butylbenzene	104	107	76 - 120	3	21		
1,1,1,2-Tetrachloroethane	94	103	77 - 120	9	20		
1,1,2,2-Tetrachloroethane	102	111	73 - 120	9	20		
Tetrachloroethene	108	110	77 - 120	1	20		
Toluene	86	87	73 - 120	1	20		
trans-1,2-Dichloroethene	92	95	80 - 120	4	24		
trans-1,3-Dichloropropene	78	85	72 - 120	8	20		
1,2,3-Trichlorobenzene	95	96	66 - 123	0	29		
1,2,4-Trichlorobenzene	98	99	73 - 121	1	25		
1,1,1-Trichloroethane	96	100	78 - 120	4	20		
1,1,2-Trichloroethane	82	88	76 - 120	8	21		
Trichloroethene	92	95	78 - 122	2	20		
Trichlorofluoromethane	86	83	63 - 135	4	20		
1,2,3-Trichloropropane	106	110	72 - 120	3	23		
1,2,4-Trimethylbenzene	113	117	77 - 120	3	20		
1,3,5-Trimethylbenzene	110	112	77 - 120	2	20		
Vinyl chloride	84	80	49 - 136	6	24		
Xylenes, Total	109	113	77 - 120	3	20		

Client: AECOM, Inc. Job Number: 280-23017-1

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	103	105	78 - 120
Dibromofluoromethane (Surr)	88	91	77 - 120
1,2-Dichloroethane-d4 (Surr)	81	85	70 - 127
Toluene-d8 (Surr)	106	108	80 - 125

Client: AECOM, Inc.

Job Number: 280-23017-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98185

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22998-C-2 MS	Units: ug/L	MSD Lab Sample ID:	280-22998-C-2 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/29/2011 2338		Analysis Date:	11/29/2011 2357	
Prep Date:	11/29/2011 2338		Prep Date:	11/29/2011 2357	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acetone	9.5	U	20.0	20.0	19.5		21.1	
Benzene	1.6	J	5.00	5.00	6.12		6.32	
Bromobenzene	0.85	U	5.00	5.00	5.13		5.29	
Bromodichloromethane	0.85	U	5.00	5.00	4.36		4.50	
Bromoform	0.95	U	5.00	5.00	4.24		4.44	
Bromomethane	1.1	U	5.00	5.00	3.84		3.99	
2-Butanone (MEK)	10	U	20.0	20.0	18.3		19.7	
Carbon tetrachloride	0.95	U	5.00	5.00	4.05		4.30	
Chlorobenzene	0.85	U	5.00	5.00	5.13		5.41	
Bromochloromethane	0.50	U	5.00	5.00	4.04		4.33	
Dibromochloromethane	0.85	U	5.00	5.00	4.38		4.59	
Chloroethane	2.1	U	5.00	5.00	4.96		4.93	
Chloroform	0.82	J	5.00	5.00	5.28		5.45	
Chloromethane	1.5	U	5.00	5.00	4.08		4.20	
2-Chlorotoluene	0.85	U	5.00	5.00	5.15		5.44	
4-Chlorotoluene	1.1	U	5.00	5.00	5.17		5.38	
cis-1,2-Dichloroethene	0.75	U	5.00	5.00	4.61		4.93	
cis-1,3-Dichloropropene	0.80	U	5.00	5.00	4.11		4.39	
1,2-Dibromo-3-Chloropropane	2.4	U	5.00	5.00	4.32	J	4.54	J
1,2-Dibromoethane (EDB)	0.90	U	5.00	5.00	4.59		4.83	
Dibromomethane	0.85	U	5.00	5.00	3.91		4.16	
1,2-Dichlorobenzene	0.75	U	5.00	5.00	5.06		5.24	
1,3-Dichlorobenzene	0.65	U	5.00	5.00	5.13		5.35	
1,4-Dichlorobenzene	0.80	U	5.00	5.00	5.15		5.33	
Dichlorodifluoromethane	2.7	J	5.00	5.00	5.82		5.47	F
1,1-Dichloroethane	37		5.00	5.00	43.9	4	43.5	4
1,2-Dichloroethane	0.65	U	5.00	5.00	4.15		4.50	
1,1-Dichloroethene	1.2	J	5.00	5.00	5.86		5.79	
1,2-Dichloroethene, Total	1.2	U	10.0	10.0	9.18		9.70	
1,2-Dichloropropane	0.90	U	5.00	5.00	4.44		4.71	
1,3-Dichloropropane	1.1	U	5.00	5.00	4.79		5.05	
2,2-Dichloropropane	0.90	U	5.00	5.00	4.42		4.58	
1,1-Dichloropropene	0.95	U	5.00	5.00	4.17		4.33	
Ethylbenzene	0.80	U	5.00	5.00	5.02		5.28	
Hexachlorobutadiene	0.60	U	5.00	5.00	4.82		4.90	
2-Hexanone	8.5	U	20.0	20.0	16.3		17.1	
Isopropylbenzene	0.95	U	5.00	5.00	5.79		6.01	
4-Isopropyltoluene	1.0	U	5.00	5.00	5.05		5.23	
Methylene Chloride	190		5.00	5.00	191	E 4	188	E 4
4-Methyl-2-pentanone	4.9	U	20.0	20.0	14.4		15.4	
Methyl tert-butyl ether	1.3	U	5.00	5.00	4.02	J	4.35	J
m-Xylene & p-Xylene	1.7	U	10.0	10.0	11.2		11.4	
Naphthalene	1.1	U	5.00	5.00	4.73		4.87	

Client: AECOM, Inc.

Job Number: 280-23017-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98185

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22998-C-2 MS	Units:	ug/L	MSD Lab Sample ID:	280-22998-C-2 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/29/2011 2338			Analysis Date:	11/29/2011 2357
Prep Date:	11/29/2011 2338			Prep Date:	11/29/2011 2357
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
n-Butylbenzene	0.70	U	5.00	5.00	5.01	5.10
n-Propylbenzene	0.80	U	5.00	5.00	5.10	5.26
o-Xylene	0.95	U	5.00	5.00	5.21	5.49
sec-Butylbenzene	0.85	U	5.00	5.00	5.02	5.15
Styrene	0.85	U	5.00	5.00	4.93	5.09
tert-Butylbenzene	0.80	U	5.00	5.00	5.19	5.33
1,1,1,2-Tetrachloroethane	1.1	U	5.00	5.00	4.69	5.14
1,1,2,2-Tetrachloroethane	1.1	U	5.00	5.00	5.09	5.54
Tetrachloroethene	2.2	J	5.00	5.00	7.57	7.66
Toluene	2.0	J	5.00	5.00	6.32	6.38
trans-1,2-Dichloroethene	0.75	U	5.00	5.00	4.58	4.77
trans-1,3-Dichloropropene	0.95	U	5.00	5.00	3.91	4.25
1,2,3-Trichlorobenzene	1.1	U	5.00	5.00	4.77	4.79
1,2,4-Trichlorobenzene	1.1	U	5.00	5.00	4.90	4.95
1,1,1-Trichloroethane	0.80	U	5.00	5.00	4.78	5.00
1,1,2-Trichloroethane	1.4	U	5.00	5.00	4.08	4.42
Trichloroethene	1.2	J	5.00	5.00	5.81	5.94
Trichlorofluoromethane	1.5	U	5.00	5.00	4.31	4.14
1,2,3-Trichloropropane	1.7	U	5.00	5.00	5.32	5.50
1,2,4-Trimethylbenzene	0.75	U	5.00	5.00	5.66	5.83
1,3,5-Trimethylbenzene	0.80	U	5.00	5.00	5.49	5.58
Vinyl chloride	0.50	U	5.00	5.00	4.22	3.98
Xylenes, Total	0.95	U	15.0	15.0	16.4	16.9

Client: AECOM, Inc. Job Number: 280-23017-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-98185					
LCS 280-98185/4	Lab Control Sample	T	Water	8260B	
MB 280-98185/5	Method Blank	T	Water	8260B	
280-22998-C-2 MS	Matrix Spike	T	Water	8260B	
280-22998-C-2 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-23017-1	MW-18-111611	T	Water	8260B	
280-23017-2	MW-22-111611	T	Water	8260B	
280-23017-3	MW-17-111611	T	Water	8260B	
280-23017-4	MW-19-111611	T	Water	8260B	
280-23017-5	MW-10-111611	T	Water	8260B	
280-23017-6	MW-21-111611	T	Water	8260B	
280-23017-7	MW-20-111611	T	Water	8260B	
280-23017-8	MW-16-111611	T	Water	8260B	
280-23017-9	MW-9-111611	T	Water	8260B	
280-23017-10	MW-DUP-111611	T	Water	8260B	
280-23017-11	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

Client: AECOM, Inc. Job Number: 280-23017-1

Laboratory Chronicle

Lab ID: 280-23017-1 **Client ID:** MW-18-111611

Sample Date/Time: 11/16/2011 08:30 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-B-1		280-98185		11/30/2011 00:16	1	TAL DEN	SAT
A:8260B	280-23017-B-1		280-98185		11/30/2011 00:16	1	TAL DEN	SAT

Lab ID: 280-23017-2 **Client ID:** MW-22-111611

Sample Date/Time: 11/16/2011 09:50 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-A-2		280-98185		11/30/2011 00:36	1	TAL DEN	SAT
A:8260B	280-23017-A-2		280-98185		11/30/2011 00:36	1	TAL DEN	SAT

Lab ID: 280-23017-3 **Client ID:** MW-17-111611

Sample Date/Time: 11/16/2011 10:40 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-B-3		280-98185		11/30/2011 00:55	1	TAL DEN	SAT
A:8260B	280-23017-B-3		280-98185		11/30/2011 00:55	1	TAL DEN	SAT

Lab ID: 280-23017-4 **Client ID:** MW-19-111611

Sample Date/Time: 11/16/2011 11:30 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-A-4		280-98185		11/30/2011 01:14	1	TAL DEN	SAT
A:8260B	280-23017-A-4		280-98185		11/30/2011 01:14	1	TAL DEN	SAT

Lab ID: 280-23017-5 **Client ID:** MW-10-111611

Sample Date/Time: 11/16/2011 11:50 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-B-5		280-98185		11/30/2011 01:33	1	TAL DEN	SAT
A:8260B	280-23017-B-5		280-98185		11/30/2011 01:33	1	TAL DEN	SAT

Lab ID: 280-23017-6 **Client ID:** MW-21-111611

Sample Date/Time: 11/16/2011 13:20 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-A-6		280-98185		11/30/2011 01:52	1	TAL DEN	SAT
A:8260B	280-23017-A-6		280-98185		11/30/2011 01:52	1	TAL DEN	SAT

Client: AECOM, Inc. Job Number: 280-23017-1

Laboratory Chronicle

Lab ID: 280-23017-7 **Client ID:** MW-20-111611

Sample Date/Time: 11/16/2011 13:45 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-A-7		280-98185		11/30/2011 02:11	1	TAL DEN	SAT
A:8260B	280-23017-A-7		280-98185		11/30/2011 02:11	1	TAL DEN	SAT

Lab ID: 280-23017-8 **Client ID:** MW-16-111611

Sample Date/Time: 11/16/2011 14:15 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-B-8		280-98185		11/30/2011 02:30	1	TAL DEN	SAT
A:8260B	280-23017-B-8		280-98185		11/30/2011 02:30	1	TAL DEN	SAT

Lab ID: 280-23017-9 **Client ID:** MW-9-111611

Sample Date/Time: 11/16/2011 15:20 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-B-9		280-98185		11/30/2011 02:49	1	TAL DEN	SAT
A:8260B	280-23017-B-9		280-98185		11/30/2011 02:49	1	TAL DEN	SAT

Lab ID: 280-23017-10 **Client ID:** MW-DUP-111611

Sample Date/Time: 11/16/2011 16:00 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-A-10		280-98185		11/30/2011 03:09	1	TAL DEN	SAT
A:8260B	280-23017-A-10		280-98185		11/30/2011 03:09	1	TAL DEN	SAT

Lab ID: 280-23017-11 **Client ID:** TRIP BLANK

Sample Date/Time: 11/16/2011 08:30 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23017-A-11		280-98185		11/29/2011 22:22	1	TAL DEN	SAT
A:8260B	280-23017-A-11		280-98185		11/29/2011 22:22	1	TAL DEN	SAT

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-98185/5		280-98185		11/29/2011 21:59	1	TAL DEN	SAT
A:8260B	MB 280-98185/5		280-98185		11/29/2011 21:59	1	TAL DEN	SAT

Client: AECOM, Inc. Job Number: 280-23017-1

Laboratory Chronicle

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-98185/4		280-98185		11/29/2011 21:35	1	TAL DEN	SAT
A:8260B	LCS 280-98185/4		280-98185		11/29/2011 21:35	1	TAL DEN	SAT

Lab ID: MS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-22998-C-2 MS		280-98185		11/29/2011 23:38	1	TAL DEN	SAT
A:8260B	280-22998-C-2 MS		280-98185		11/29/2011 23:38	1	TAL DEN	SAT

Lab ID: MSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-22998-C-2 MSD		280-98185		11/29/2011 23:57	1	TAL DEN	SAT
A:8260B	280-22998-C-2 MSD		280-98185		11/29/2011 23:57	1	TAL DEN	SAT

Lab References:
TAL DEN = TestAmerica Denver

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MV-2 Cleve_00010	05/08/12	11/08/11	P&T Methanol, Lot DE977	5 mL	MV-861206_00014	0.1 mL	2-Chloroethyl vinyl ether	40 ug/mL
.MV-861206_00014	03/31/13		Supelco, Lot LB74679		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
MV-524 A_00013	05/17/12	11/17/11	Methanol, Lot de997	10 mL	MV-DWM589N_00032	200 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Xylenes, Total	120 ug/mL
					MV-STS440_00032	200 uL	Methyl tert-butyl ether	40 ug/mL
.MV-DWM589N_00032	12/31/13	Ultra Scientific, Lot CG-3928			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
.MV-STS440_00032	01/31/15		Ultra, Lot cc-4444		(Purchased Reagent)		Methyl tert-butyl ether	2000 ug/mL
MV-Archon IS_00437	05/28/12		Supelco, Lot LB80013		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
MV-Archon SS_00520	05/08/12		Restek, Lot A081609		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
MV-Archon SS_00530	05/14/12		Restek, Lot A081609		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
MV-BO mix B_00007	01/31/12	08/06/11	P&T Methanol, Lot Dd9646	10 mL	MV-561149_00008	200 uL	2-Chloro-1,1,1-Trifluoroethane	40 ug/mL
							Chlorotrifluoroethene	40 ug/mL
.MV-561149_00008	02/28/14		Restek, Lot A065780		(Purchased Reagent)		2-Chloro-1,1,1-Trifluoroethane	2000 ug/mL
							Chlorotrifluoroethene	2000 ug/mL
MV-Main GasKe_00023	12/20/11	11/16/11	P&T Methanol, Lot de997	10 mL	MV- Acrolein_00008	100 uL	Acrolein	400.16 ug/mL
					MV-5M06036_00026	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
					MV-861149_00043	400 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
							Cyclohexanone	1600 ug/mL
					MV-861149_00044	400 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
							Cyclohexanone	1600 ug/mL
.MV- Acrolein_00008	12/20/11	06/20/11	P&T Methanol, Lot DD946	5 mL	MV-48501_00004	0.205 g	Acrolein	40016 ug/mL
..MV-48501_00004	02/29/12		Supelco, Lot LB82935V		(Purchased Reagent)		Acrolein	0.976 mL/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MV-5M06036_00026	01/31/12		Supelco, Lot LB79742		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.MV-861149_00043	09/30/12		Supelco, Lot LB75124		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone	2000 ug/mL
							Acetone	2000 ug/mL
							Cyclohexanone	20000 ug/mL
.MV-861149_00044	11/30/13		Supelco, Lot LB85301		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone	2000 ug/mL
							Acetone	2000 ug/mL
							Cyclohexanone	20000 ug/mL
MV-Main_00021	01/28/12	11/15/11	P&T Methanol, Lot de997	10 mL	MV-1-Ch Hex_00007	11 uL	1-Chlorohexane	41.0549 ug/mL
					MV-502111_00021	200 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Xylenes, Total	120 ug/mL
					MV-506052_00022	200 uL	Iodomethane	40 ug/mL
					MV-861145_00018	200 uL	2-Chloro-1,3-butadiene	40 ug/mL
					MV-CUS11338_00029	500 uL	1,4-Dioxane	2000 ug/mL
							2-Methyl-2-propanol	800 ug/mL
							Acetonitrile	400 ug/mL
							Acrylonitrile	400 ug/mL
							Ethanol	2000 ug/mL
							Isobutyl alcohol	800 ug/mL
							Isopropyl ether	200 ug/mL
							Methacrylonitrile	400 ug/mL
							n-Butanol	1200 ug/mL
							Propionitrile	400 ug/mL
					MV-CUS11338_00030	500 uL	1,4-Dioxane	2000 ug/mL
							2-Methyl-2-propanol	800 ug/mL
							Acetonitrile	400 ug/mL
							Acrylonitrile	400 ug/mL
							Ethanol	2000 ug/mL
							Isobutyl alcohol	800 ug/mL
							Isopropyl ether	200 ug/mL
							Methacrylonitrile	400 ug/mL
							n-Butanol	1200 ug/mL
							Propionitrile	400 ug/mL
.MV-1-Ch Hex_00007	01/28/12	07/27/11	P&T Methanol, Lot dd946	5 mL	MV-442258_00002	0.1868 g	1-Chlorohexane	37322.6 ug/mL
..MV-442258_00002	07/31/13		Supelco, Lot LB77927		(Purchased Reagent)		1-Chlorohexane	0.999 mL/mL
.MV-502111_00021	08/30/12		Supelco, Lot LB77670		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Xylenes, Total	6000 ug/mL
.MV-506052_00022	03/31/12		Supelco, Lot LB82956		(Purchased Reagent)		Iodomethane	2000 ug/mL
.MV-861145_00018	03/31/12		Supelco, Lot LB82389		(Purchased Reagent)		2-Chloro-1,3-butadiene	2000 ug/mL
.MV-CUS11338_00029	11/30/13		Ultra, Lot CH-3475		(Purchased Reagent)		1,4-Dioxane	20000 ug/mL
							2-Methyl-2-propanol	8000 ug/mL
							Acetonitrile	4000 ug/mL
							Acrylonitrile	4000 ug/mL
							Ethanol	20000 ug/mL
							Isobutyl alcohol	8000 ug/mL
							Isopropyl ether	2000 ug/mL
							Methacrylonitrile	4000 ug/mL
							n-Butanol	12000 ug/mL
							Propionitrile	4000 ug/mL
.MV-CUS11338_00030	11/30/13		Ultra, Lot CH-3475		(Purchased Reagent)		1,4-Dioxane	20000 ug/mL
							2-Methyl-2-propanol	8000 ug/mL
							Acetonitrile	4000 ug/mL
							Acrylonitrile	4000 ug/mL
							Ethanol	20000 ug/mL
							Isobutyl alcohol	8000 ug/mL
							Isopropyl ether	2000 ug/mL
							Methacrylonitrile	4000 ug/mL
							n-Butanol	12000 ug/mL
							Propionitrile	4000 ug/mL
MV-SS GasKe_00016	05/15/12	11/16/11	P&T Methanol, Lot De997	10 mL	MV-30006_00030	320 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
					MV-5s06036_00009	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MV-30006_00030	04/30/14		Restek, Lot A079446		(Purchased Reagent)		2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone	5000 ug/mL
							Acetone	5000 ug/mL
.MV-5s06036_00009	09/13/13		Supelco, Lot LB79584		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MV-SS Supp_00008	12/03/11	06/03/11	P&T Methanol, Lot dd471	5 mL	MV-564150_00009	100 uL	Methyl tert-butyl ether	40 ug/mL
.MV-564150_00009	05/30/12		RESTEK, Lot A081643		(Purchased Reagent)		Methyl tert-butyl ether	2000 ug/mL
MV-Supp Std_00018	01/31/12	09/26/11	P&T Methanol, Lot de997	10 mL	MV-21455932_00001	200 uL	1,1,1-Trifluoro-2,2-dichloroethane	40 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trimethylbenzene	40 ug/mL
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	40 ug/mL
							2-Nitropropane	40 ug/mL
							2-Pentanone	160 ug/mL
							3-Chloro-1-propene	40 ug/mL
							Carbon disulfide	40 ug/mL
							cis-1,4-Dichloro-2-butene	40 ug/mL
							Cyclohexane	40 ug/mL
							Dichlorofluoromethane	40 ug/mL
							Ethyl acetate	80 ug/mL
							Ethyl ether	40 ug/mL
							Ethyl methacrylate	80 ug/mL
							Hexane	40 ug/mL
							Isopropyl alcohol	800 ug/mL
							Methyl acetate	200 ug/mL
							Methyl methacrylate	80 ug/mL
							Methyl tert-butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
							Tert-amyl methyl ether	200 ug/mL
							Tert-butyl ethyl ether	200 ug/mL
							Tetrahydrofuran	80 ug/mL
							Tetrahydrothiophene	40 ug/mL
							trans-1,4-Dichloro-2-butene	40 ug/mL
							Vinyl acetate	80 ug/mL
					MV-48838_00017	1 mL	Ethylene oxide	5000 ug/mL
					MV-S-635-1S_00016	200 uL	1,2-Dichloro-1,1,2-trifluoroethane	40 ug/mL
.MV-21455932_00001	10/31/12		Supelco, Lot LB88346		(Purchased Reagent)		1,1,1-Trifluoro-2,2-dichloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,2,3-Trimethylbenzene	2000 ug/mL
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							2-Nitropropane	2000 ug/mL
							2-Pentanone	8000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							cis-1,4-Dichloro-2-butene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	4000 ug/mL
							Hexane	2000 ug/mL
							Isopropyl alcohol	40000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl methacrylate	4000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl methyl ether	10000 ug/mL
							Tert-butyl ethyl ether	10000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Tetrahydrothiophene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Vinyl acetate	4000 ug/mL
.MV-48838_00017	01/31/12	Supelco, Lot LB81673			(Purchased Reagent)		Ethylene oxide	50000 ug/mL
.MV-S-635-1S_00016	01/31/21	Accustandard, Lot 211011226			(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-18-111611	280-23017-1	91	91	107	113
MW-22-111611	280-23017-2	93	89	111	117
MW-17-111611	280-23017-3	87	84	106	110
MW-19-111611	280-23017-4	91	89	108	106
MW-10-111611	280-23017-5	91	83	110	105
MW-21-111611	280-23017-6	91	92	104	103
MW-20-111611	280-23017-7	85	81	100	98
MW-16-111611	280-23017-8	93	88	110	106
MW-9-111611	280-23017-9	89	84	108	101
MW-DUP-111611	280-23017-10	91	91	108	112
TRIP BLANK	280-23017-11	88	81	122	113
	MB 280-98185/5	89	87	107	102
	LCS 280-98185/4	88	87	106	106
	280-22998-C-2 MS	88	81	106	103
	280-22998-C-2 MSD	91	85	108	105

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4805.D

Lab ID: LCS 280-98185/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	16.6	83	48-130	
Benzene	5.00	4.61	92	77-120	
Bromobenzene	5.00	5.28	106	75-120	
Bromodichloromethane	5.00	4.39	88	78-120	
Bromoform	5.00	4.45	89	74-121	
Bromomethane	5.00	4.42	88	42-154	
2-Butanone (MEK)	20.0	18.8	94	57-120	
Carbon tetrachloride	5.00	4.80	96	80-120	
Chlorobenzene	5.00	5.34	107	78-120	
Bromochloromethane	5.00	4.04	81	78-120	
Dibromochloromethane	5.00	4.62	92	76-120	
Chloroethane	5.00	4.70	94	51-133	
Chloroform	5.00	4.60	92	78-120	
Chloromethane	5.00	4.68	94	46-142	
2-Chlorotoluene	5.00	5.61	112	76-120	
4-Chlorotoluene	5.00	5.53	111	78-120	
cis-1,2-Dichloroethene	5.00	4.45	89	75-120	
cis-1,3-Dichloropropene	5.00	4.19	84	76-120	
1,2-Dibromo-3-Chloropropane	5.00	4.61 J	92	65-120	
1,2-Dibromoethane (EDB)	5.00	4.73	95	77-120	
Dibromomethane	5.00	4.07	81	77-120	
1,2-Dichlorobenzene	5.00	5.27	105	76-120	
1,3-Dichlorobenzene	5.00	5.45	109	75-120	
1,4-Dichlorobenzene	5.00	5.43	109	77-120	
Dichlorodifluoromethane	5.00	4.08	82	56-140	
1,1-Dichloroethane	5.00	4.93	99	77-120	
1,2-Dichloroethane	5.00	4.29	86	74-120	
1,1-Dichloroethene	5.00	5.12	102	68-133	
1,2-Dichloropropane	5.00	4.42	88	76-120	
1,3-Dichloropropane	5.00	5.05	101	75-120	
2,2-Dichloropropane	5.00	4.92	98	72-128	
1,1-Dichloropropene	5.00	4.66	93	75-120	
Ethylbenzene	5.00	5.37	107	78-120	
Hexachlorobutadiene	5.00	5.40	108	73-123	
2-Hexanone	20.0	18.3	92	57-121	
Isopropylbenzene	5.00	6.40	128	71-120	*
4-Isopropyltoluene	5.00	5.62	112	76-120	
Methylene Chloride	5.00	4.98	100	60-134	
4-Methyl-2-pentanone	20.0	15.3	76	65-120	
Methyl tert-butyl ether	5.00	4.10 J	82	58-120	
m-Xylene & p-Xylene	10.0	10.8	108	78-120	
Naphthalene	5.00	4.69	94	62-121	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4805.D

Lab ID: LCS 280-98185/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
n-Butylbenzene	5.00	5.73	115	76-120	
n-Propylbenzene	5.00	5.59	112	76-120	
o-Xylene	5.00	5.17	103	77-120	
sec-Butylbenzene	5.00	5.65	113	80-120	
Styrene	5.00	5.06	101	77-120	
tert-Butylbenzene	5.00	5.70	114	76-120	
1,1,1,2-Tetrachloroethane	5.00	5.07	101	77-120	
1,1,2,2-Tetrachloroethane	5.00	5.33	107	73-120	
Tetrachloroethene	5.00	5.34	107	77-120	
Toluene	5.00	4.46	89	73-120	
trans-1,2-Dichloroethene	5.00	4.66	93	80-120	
trans-1,3-Dichloropropene	5.00	4.01	80	72-120	
1,2,3-Trichlorobenzene	5.00	4.65	93	66-123	
1,2,4-Trichlorobenzene	5.00	4.83	97	73-121	
1,1,1-Trichloroethane	5.00	4.64	93	78-120	
1,1,2-Trichloroethane	5.00	4.16	83	76-120	
Trichloroethene	5.00	4.74	95	78-122	
Trichlorofluoromethane	5.00	4.60	92	63-135	
1,2,3-Trichloropropane	5.00	5.59	112	72-120	
1,2,4-Trimethylbenzene	5.00	5.56	111	77-120	
1,3,5-Trimethylbenzene	5.00	5.72	114	77-120	
Vinyl chloride	5.00	4.75	95	49-136	
Xylenes, Total	15.0	16.0	106	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4811.D

Lab ID: 280-22998-C-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	20.0	9.5 U	19.5	98	48-130	
Benzene	5.00	1.6 J	6.12	90	77-120	
Bromobenzene	5.00	0.85 U	5.13	103	75-120	
Bromodichloromethane	5.00	0.85 U	4.36	87	78-120	
Bromoform	5.00	0.95 U	4.24	85	74-121	
Bromomethane	5.00	1.1 U	3.84	77	42-154	
2-Butanone (MEK)	20.0	10 U	18.3	91	57-120	
Carbon tetrachloride	5.00	0.95 U	4.05	81	80-120	
Chlorobenzene	5.00	0.85 U	5.13	103	78-120	
Bromochloromethane	5.00	0.50 U	4.04	81	78-120	
Dibromochloromethane	5.00	0.85 U	4.38	88	76-120	
Chloroethane	5.00	2.1 U	4.96	99	51-133	
Chloroform	5.00	0.82 J	5.28	89	78-120	
Chloromethane	5.00	1.5 U	4.08	82	46-142	
2-Chlorotoluene	5.00	0.85 U	5.15	103	76-120	
4-Chlorotoluene	5.00	1.1 U	5.17	103	78-120	
cis-1,2-Dichloroethene	5.00	0.75 U	4.61	92	75-120	
cis-1,3-Dichloropropene	5.00	0.80 U	4.11	82	76-120	
1,2-Dibromo-3-Chloropropane	5.00	2.4 U	4.32 J	86	65-120	
1,2-Dibromoethane (EDB)	5.00	0.90 U	4.59	92	77-120	
Dibromomethane	5.00	0.85 U	3.91	78	77-120	
1,2-Dichlorobenzene	5.00	0.75 U	5.06	101	76-120	
1,3-Dichlorobenzene	5.00	0.65 U	5.13	103	75-120	
1,4-Dichlorobenzene	5.00	0.80 U	5.15	103	77-120	
Dichlorodifluoromethane	5.00	2.7 J	5.82	62	56-140	
1,1-Dichloroethane	5.00	37	43.9	145	77-120	4
1,2-Dichloroethane	5.00	0.65 U	4.15	83	74-120	
1,1-Dichloroethene	5.00	1.2 J	5.86	117	68-133	
1,2-Dichloroethene, Total	10.0	1.2 U	9.18	92	78-120	
1,2-Dichloropropane	5.00	0.90 U	4.44	89	76-120	
1,3-Dichloropropane	5.00	1.1 U	4.79	96	75-120	
2,2-Dichloropropane	5.00	0.90 U	4.42	88	72-128	
1,1-Dichloropropene	5.00	0.95 U	4.17	83	75-120	
Ethylbenzene	5.00	0.80 U	5.02	100	78-120	
Hexachlorobutadiene	5.00	0.60 U	4.82	96	73-123	
2-Hexanone	20.0	8.5 U	16.3	81	57-121	
Isopropylbenzene	5.00	0.95 U	5.79	116	71-120	
4-Isopropyltoluene	5.00	1.0 U	5.05	101	76-120	
Methylene Chloride	5.00	190	191	-53	60-134	E 4
4-Methyl-2-pentanone	20.0	4.9 U	14.4	72	65-120	
Methyl tert-butyl ether	5.00	1.3 U	4.02 J	80	58-120	
m-Xylene & p-Xylene	10.0	1.7 U	11.2	112	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4811.D

Lab ID: 280-22998-C-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Naphthalene	5.00	1.1 U	4.73	95	62-121	
n-Butylbenzene	5.00	0.70 U	5.01	100	76-120	
n-Propylbenzene	5.00	0.80 U	5.10	102	76-120	
o-Xylene	5.00	0.95 U	5.21	104	77-120	
sec-Butylbenzene	5.00	0.85 U	5.02	100	80-120	
Styrene	5.00	0.85 U	4.93	99	77-120	
tert-Butylbenzene	5.00	0.80 U	5.19	104	76-120	
1,1,1,2-Tetrachloroethane	5.00	1.1 U	4.69	94	77-120	
1,1,2,2-Tetrachloroethane	5.00	1.1 U	5.09	102	73-120	
Tetrachloroethene	5.00	2.2 J	7.57	108	77-120	
Toluene	5.00	2.0 J	6.32	86	73-120	
trans-1,2-Dichloroethene	5.00	0.75 U	4.58	92	80-120	
trans-1,3-Dichloropropene	5.00	0.95 U	3.91	78	72-120	
1,2,3-Trichlorobenzene	5.00	1.1 U	4.77	95	66-123	
1,2,4-Trichlorobenzene	5.00	1.1 U	4.90	98	73-121	
1,1,1-Trichloroethane	5.00	0.80 U	4.78	96	78-120	
1,1,2-Trichloroethane	5.00	1.4 U	4.08	82	76-120	
Trichloroethene	5.00	1.2 J	5.81	92	78-122	
Trichlorofluoromethane	5.00	1.5 U	4.31	86	63-135	
1,2,3-Trichloropropane	5.00	1.7 U	5.32	106	72-120	
1,2,4-Trimethylbenzene	5.00	0.75 U	5.66	113	77-120	
1,3,5-Trimethylbenzene	5.00	0.80 U	5.49	110	77-120	
Vinyl chloride	5.00	0.50 U	4.22	84	49-136	
Xylenes, Total	15.0	0.95 U	16.4	109	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4812.D

Lab ID: 280-22998-C-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	21.1	106	8	41	48-130	
Benzene	5.00	6.32	94	3	20	77-120	
Bromobenzene	5.00	5.29	106	3	20	75-120	
Bromodichloromethane	5.00	4.50	90	3	20	78-120	
Bromoform	5.00	4.44	89	5	21	74-121	
Bromomethane	5.00	3.99	80	4	24	42-154	
2-Butanone (MEK)	20.0	19.7	99	8	32	57-120	
Carbon tetrachloride	5.00	4.30	86	6	21	80-120	
Chlorobenzene	5.00	5.41	108	5	20	78-120	
Bromochloromethane	5.00	4.33	87	7	20	78-120	
Dibromochloromethane	5.00	4.59	92	5	20	76-120	
Chloroethane	5.00	4.93	99	1	25	51-133	
Chloroform	5.00	5.45	93	3	20	78-120	
Chloromethane	5.00	4.20	84	3	24	46-142	
2-Chlorotoluene	5.00	5.44	109	5	20	76-120	
4-Chlorotoluene	5.00	5.38	108	4	20	78-120	
cis-1,2-Dichloroethene	5.00	4.93	99	7	20	75-120	
cis-1,3-Dichloropropene	5.00	4.39	88	7	20	76-120	
1,2-Dibromo-3-Chloropropane	5.00	4.54 J	91	5	22	65-120	
1,2-Dibromoethane (EDB)	5.00	4.83	97	5	20	77-120	
Dibromomethane	5.00	4.16	83	6	20	77-120	
1,2-Dichlorobenzene	5.00	5.24	105	3	20	76-120	
1,3-Dichlorobenzene	5.00	5.35	107	4	20	75-120	
1,4-Dichlorobenzene	5.00	5.33	107	3	23	77-120	
Dichlorodifluoromethane	5.00	5.47	54	6	24	56-140	F
1,1-Dichloroethane	5.00	43.5	135	1	21	77-120	4
1,2-Dichloroethane	5.00	4.50	90	8	20	74-120	
1,1-Dichloroethene	5.00	5.79	116	1	20	68-133	
1,2-Dichloroethene, Total	10.0	9.70	97	5	20	78-120	
1,2-Dichloropropane	5.00	4.71	94	6	20	76-120	
1,3-Dichloropropane	5.00	5.05	101	5	20	75-120	
2,2-Dichloropropane	5.00	4.58	92	4	24	72-128	
1,1-Dichloropropene	5.00	4.33	87	4	21	75-120	
Ethylbenzene	5.00	5.28	106	5	26	78-120	
Hexachlorobutadiene	5.00	4.90	98	2	25	73-123	
2-Hexanone	20.0	17.1	86	5	25	57-121	
Isopropylbenzene	5.00	6.01	120	4	20	71-120	
4-Isopropyltoluene	5.00	5.23	105	3	20	76-120	
Methylene Chloride	5.00	188	-96	1	20	60-134	E 4
4-Methyl-2-pentanone	20.0	15.4	77	7	22	65-120	
Methyl tert-butyl ether	5.00	4.35 J	87	8	21	58-120	
m-Xylene & p-Xylene	10.0	11.4	114	2	20	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4812.D

Lab ID: 280-22998-C-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	5.00	4.87	97	3	32	62-121	
n-Butylbenzene	5.00	5.10	102	2	21	76-120	
n-Propylbenzene	5.00	5.26	105	3	20	76-120	
o-Xylene	5.00	5.49	110	5	20	77-120	
sec-Butylbenzene	5.00	5.15	103	3	21	80-120	
Styrene	5.00	5.09	102	3	20	77-120	
tert-Butylbenzene	5.00	5.33	107	3	21	76-120	
1,1,1,2-Tetrachloroethane	5.00	5.14	103	9	20	77-120	
1,1,2,2-Tetrachloroethane	5.00	5.54	111	9	20	73-120	
Tetrachloroethene	5.00	7.66	110	1	20	77-120	
Toluene	5.00	6.38	87	1	20	73-120	
trans-1,2-Dichloroethene	5.00	4.77	95	4	24	80-120	
trans-1,3-Dichloropropene	5.00	4.25	85	8	20	72-120	
1,2,3-Trichlorobenzene	5.00	4.79	96	0	29	66-123	
1,2,4-Trichlorobenzene	5.00	4.95	99	1	25	73-121	
1,1,1-Trichloroethane	5.00	5.00	100	4	20	78-120	
1,1,2-Trichloroethane	5.00	4.42	88	8	21	76-120	
Trichloroethene	5.00	5.94	95	2	20	78-122	
Trichlorofluoromethane	5.00	4.14	83	4	20	63-135	
1,2,3-Trichloropropane	5.00	5.50	110	3	23	72-120	
1,2,4-Trimethylbenzene	5.00	5.83	117	3	20	77-120	
1,3,5-Trimethylbenzene	5.00	5.58	112	2	20	77-120	
Vinyl chloride	5.00	3.98	80	6	24	49-136	
Xylenes, Total	15.0	16.9	113	3	20	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Lab File ID: E4806.D Lab Sample ID: MB 280-98185/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: MSV_E Date Analyzed: 11/29/2011 21:59

GC Column: DB-624 (75.53) ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-98185/4	E4805.D	11/29/2011 21:35
TRIP BLANK	280-23017-11	E4807.D	11/29/2011 22:22
	280-22998-C-2 MS	E4811.D	11/29/2011 23:38
	280-22998-C-2 MSD	E4812.D	11/29/2011 23:57
MW-18-111611	280-23017-1	E4813.D	11/30/2011 00:16
MW-22-111611	280-23017-2	E4814.D	11/30/2011 00:36
MW-17-111611	280-23017-3	E4815.D	11/30/2011 00:55
MW-19-111611	280-23017-4	E4816.D	11/30/2011 01:14
MW-10-111611	280-23017-5	E4817.D	11/30/2011 01:33
MW-21-111611	280-23017-6	E4818.D	11/30/2011 01:52
MW-20-111611	280-23017-7	E4819.D	11/30/2011 02:11
MW-16-111611	280-23017-8	E4820.D	11/30/2011 02:30
MW-9-111611	280-23017-9	E4821.D	11/30/2011 02:49
MW-DUP-111611	280-23017-10	E4822.D	11/30/2011 03:09

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Lab File ID: E4601.D BFB Injection Date: 11/28/2011

Instrument ID: MSV_E BFB Injection Time: 10:09

Analysis Batch No.: 97801

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	73.1	
175	5.0 - 9.0 % of mass 174	6.4	(8.8)1
176	95.0 - 101.0 % of mass 174	72.1	(98.7)1
177	5.0 - 9.0 % of mass 176	5.7	(7.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-97801/2	E4602.D	11/28/2011	10:19
	IC 280-97801/3	E4603.D	11/28/2011	10:38
	IC 280-97801/4	E4604.D	11/28/2011	10:57
	IC 280-97801/5	E4605.D	11/28/2011	11:16
	IC 280-97801/6	E4606.D	11/28/2011	11:35
	IC 280-97801/7	E4607.D	11/28/2011	11:55
	IC 280-97801/8	E4608.D	11/28/2011	12:14
	ICV 280-97801/9	E4609.D	11/28/2011	12:33
	ICV 280-97801/10	E4610.D	11/28/2011	12:52
	ICV 280-97801/11	E4611.D	11/28/2011	13:11
	IC 280-97801/12	E4612.D	11/28/2011	13:31
	IC 280-97801/13	E4613.D	11/28/2011	13:50
	IC 280-97801/14	E4614.D	11/28/2011	14:09
	ICIS 280-97801/15	E4615.D	11/28/2011	14:28
	IC 280-97801/16	E4616.D	11/28/2011	14:47
	IC 280-97801/17	E4617.D	11/28/2011	15:06
	ICV 280-97801/18	E4618.D	11/28/2011	15:25

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Lab File ID: E4802.D BFB Injection Date: 11/29/2011

Instrument ID: MSV_E BFB Injection Time: 20:26

Analysis Batch No.: 98185

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	48.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	65.0	
175	5.0 - 9.0 % of mass 174	5.0	(7.7)1
176	95.0 - 101.0 % of mass 174	62.3	(95.9)1
177	5.0 - 9.0 % of mass 176	4.5	(7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-98185/2	E4803.D	11/29/2011	20:56
	CCV 280-98185/3	E4804.D	11/29/2011	21:16
	LCS 280-98185/4	E4805.D	11/29/2011	21:35
	MB 280-98185/5	E4806.D	11/29/2011	21:59
TRIP BLANK	280-23017-11	E4807.D	11/29/2011	22:22
	280-22998-C-2 MS	E4811.D	11/29/2011	23:38
	280-22998-C-2 MSD	E4812.D	11/29/2011	23:57
MW-18-111611	280-23017-1	E4813.D	11/30/2011	00:16
MW-22-111611	280-23017-2	E4814.D	11/30/2011	00:36
MW-17-111611	280-23017-3	E4815.D	11/30/2011	00:55
MW-19-111611	280-23017-4	E4816.D	11/30/2011	01:14
MW-10-111611	280-23017-5	E4817.D	11/30/2011	01:33
MW-21-111611	280-23017-6	E4818.D	11/30/2011	01:52
MW-20-111611	280-23017-7	E4819.D	11/30/2011	02:11
MW-16-111611	280-23017-8	E4820.D	11/30/2011	02:30
MW-9-111611	280-23017-9	E4821.D	11/30/2011	02:49
MW-DUP-111611	280-23017-10	E4822.D	11/30/2011	03:09

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Sample No.: ICIS 280-97801/15 Date Analyzed: 11/28/2011 14:28

Instrument ID: MSV_E GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): E4615.D Heated Purge: (Y/N) N

Calibration ID: 7918

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1654639	8.17	368895	10.47	478447	12.42
UPPER LIMIT		3309278	8.67	737790	10.97	956894	12.92
LOWER LIMIT		827320	7.67	184448	9.97	239224	11.92
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-97801/9		1668954	8.17	385816	10.47	520575	12.42
ICV 280-97801/10		1661120	8.17	375079	10.47	507473	12.42
ICV 280-97801/11		1676483	8.17	387664	10.47	521766	12.42
ICV 280-97801/18		1859295	8.17	358374	10.47	459910	12.42
CCV 280-98185/2		1836144	8.17	345177	10.47	420190	12.42
CCV 280-98185/3		1757222	8.17	328771	10.47	400026	12.42
LCS 280-98185/4		1850658	8.17	346915	10.47	432089	12.42
MB 280-98185/5		1876793	8.17	349565	10.47	445805	12.42
280-23017-11	TRIP BLANK	1600527	8.17	282273	10.47	328845	12.42
280-22998-C-2 MS		2031740	8.16	391198	10.46	491298	12.42
280-22998-C-2 MSD		2041818	8.17	392308	10.47	493882	12.42
280-23017-1	MW-18-111611	1746032	8.17	337267	10.47	420638	12.42
280-23017-2	MW-22-111611	1744469	8.17	330684	10.47	412220	12.42
280-23017-3	MW-17-111611	1942115	8.16	376928	10.46	475751	12.42
280-23017-4	MW-19-111611	1932727	8.17	370811	10.47	461182	12.42
280-23017-5	MW-10-111611	2004648	8.17	376237	10.46	469948	12.42
280-23017-6	MW-21-111611	1866442	8.17	362847	10.46	459722	12.42
280-23017-7	MW-20-111611	2058644	8.17	400465	10.46	497097	12.42
280-23017-8	MW-16-111611	1923133	8.17	369634	10.47	469524	12.42
280-23017-9	MW-9-111611	1946579	8.16	366980	10.46	467872	12.42
280-23017-10	MW-DUP-111611	1765776	8.17	338343	10.47	436281	12.42

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-18-111611 | Lab Sample ID: 280-23017-1

Matrix: Water | Lab File ID: E4813.D

Analysis Method: 8260B | Date Collected: 11/16/2011 08:30

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 00:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-18-111611 | Lab Sample ID: 280-23017-1

Matrix: Water | Lab File ID: E4813.D

Analysis Method: 8260B | Date Collected: 11/16/2011 08:30

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 00:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.28	J *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.19	J	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.47	J	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.97	J	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.34	J	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-18-111611 Lab Sample ID: 280-23017-1

Matrix: Water Lab File ID: E4813.D

Analysis Method: 8260B Date Collected: 11/16/2011 08:30

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 00:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	113		78-120
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-127
2037-26-5	Toluene-d8 (Surr)	107		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4813.D
Lab Smp Id: 280-23017-B-1 Client Smp ID: MW-18-111611
Inj Date : 30-NOV-2011 00:16
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-b-1,,pH<2
Misc Info : 280-23017-B-1
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1746032	12.5000		
*	87 Chlorobenzene-d5	119	10.468	10.469	(1.000)	337267	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.420	12.421	(1.000)	420638	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.608	7.608	(0.932)	341777	11.7992	11.7992	
$	57 1,2-Dichloroethane-d4	65	7.916	7.916	(0.969)	279957	11.8777	11.8777	
$	75 Toluene-d8	98	9.346	9.346	(0.893)	1755823	13.8967	13.8967	
$	98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	531520	14.6488	14.6488	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	Compound Not Detected.					
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	11.212	11.213	(0.903)	39541	0.28159	0.281586(a)
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	11.548	11.556	(0.930)	8365	0.19392	0.193923(a)
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	11.991	11.992	(0.965)	121734	0.97212	0.972118(a)
108	1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	40942	0.34309	0.343085(aQ)
109	sec-Butylbenzene	134	12.184	12.185	(0.981)	16187	0.46998	0.469980(a)
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

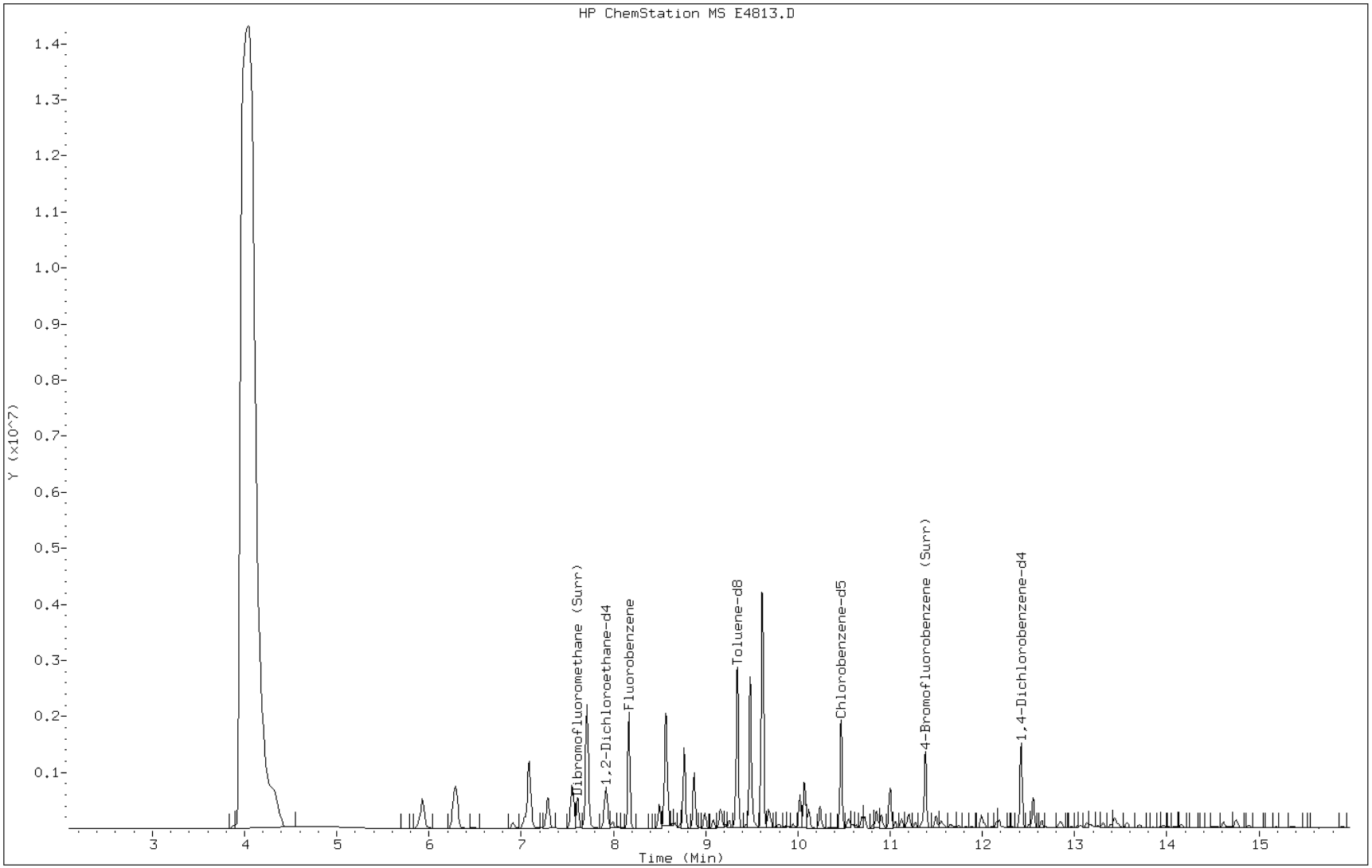
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4813.D

Date: 30-NOV-2011 00:16

Client ID: MW-18-111611 Instrument: E.i

Sample Info: 280-23017-b-1,,pH<2 Operator: TINKHAMS



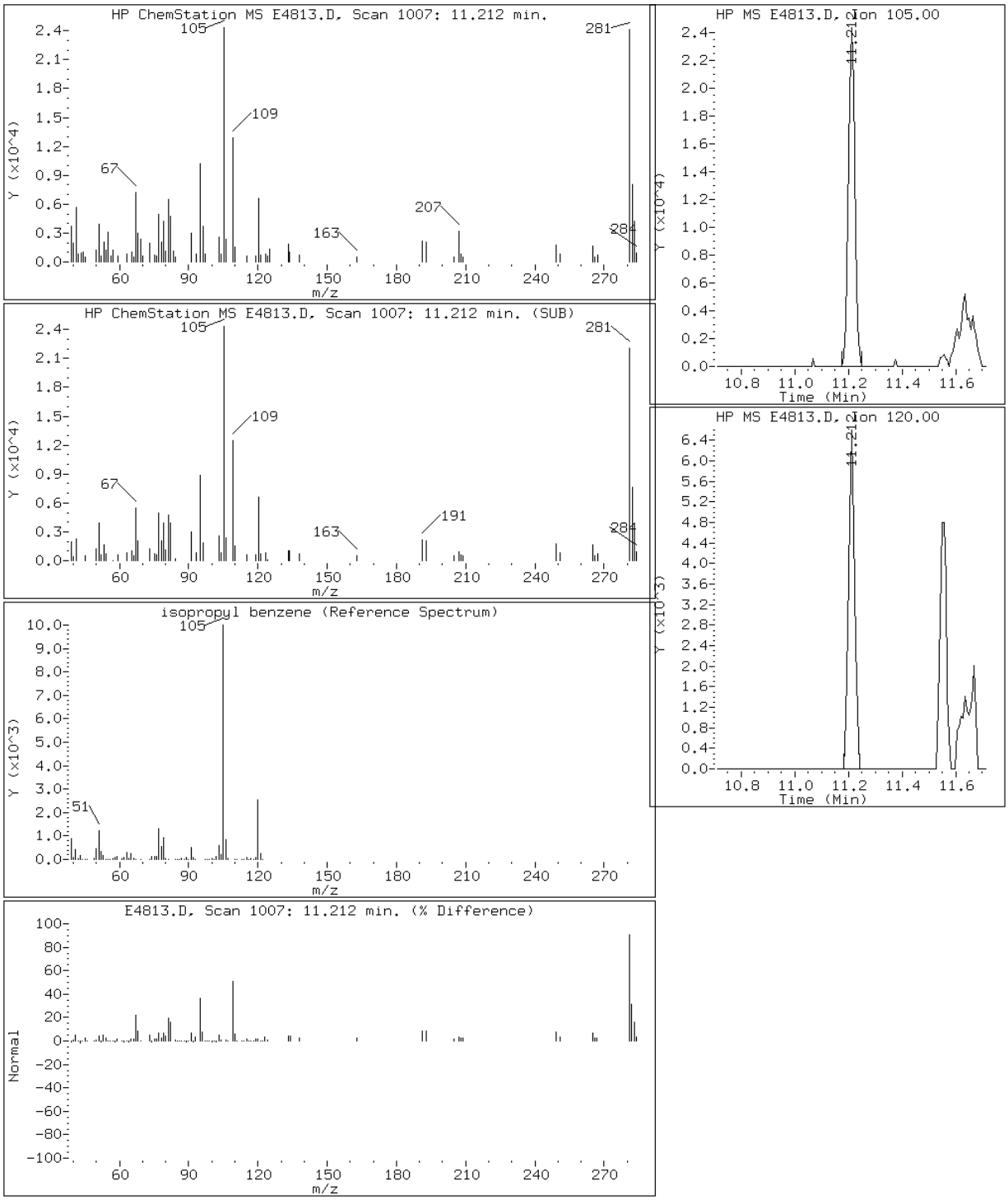
Data File: E4813.D

Date: 30-NOV-2011 00:16

Client ID: MW-18-111611 Instrument: E.i

Sample Info: 280-23017-b-1,,pH<2 Operator: TINKHAMS

95 isopropyl benzene



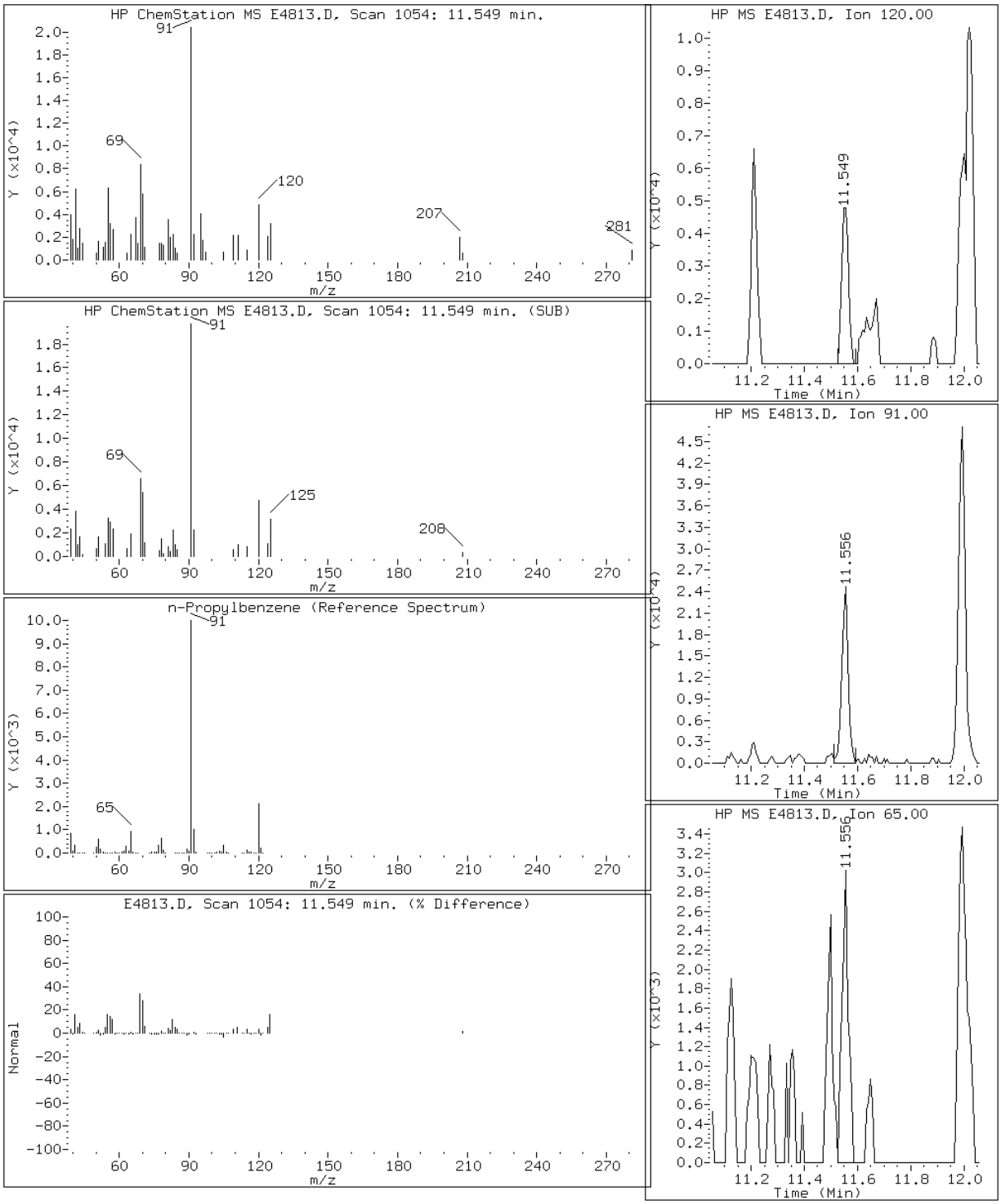
Data File: E4813.D

Date: 30-NOV-2011 00:16

Client ID: MW-18-111611 Instrument: E.i

Sample Info: 280-23017-b-1,,pH<2 Operator: TINKHAMS

102 n-Propylbenzene



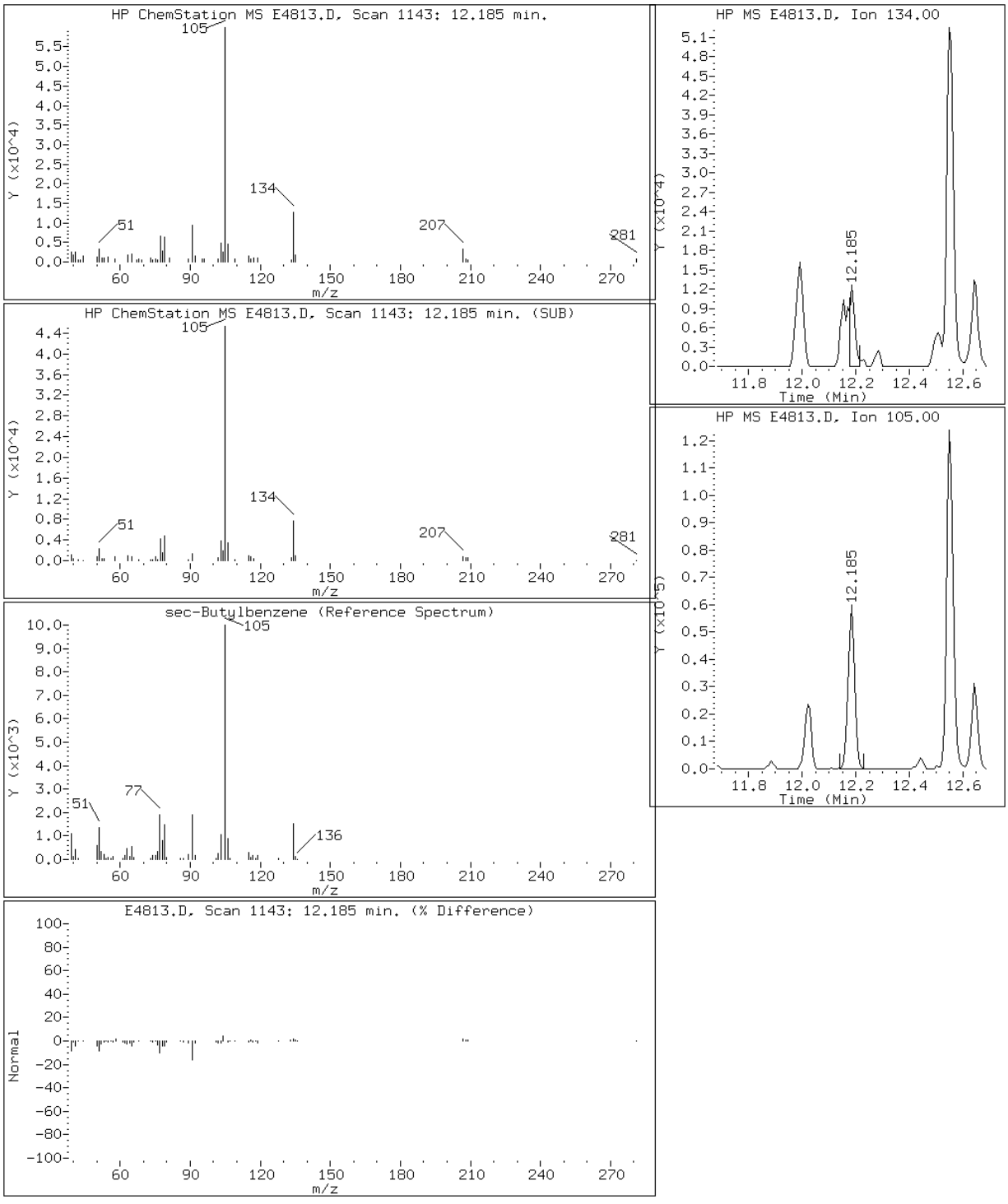
Data File: E4813.D

Date: 30-NOV-2011 00:16

Client ID: MW-18-111611 Instrument: E.i

Sample Info: 280-23017-b-1,,pH<2 Operator: TINKHAMS

109 sec-Butylbenzene



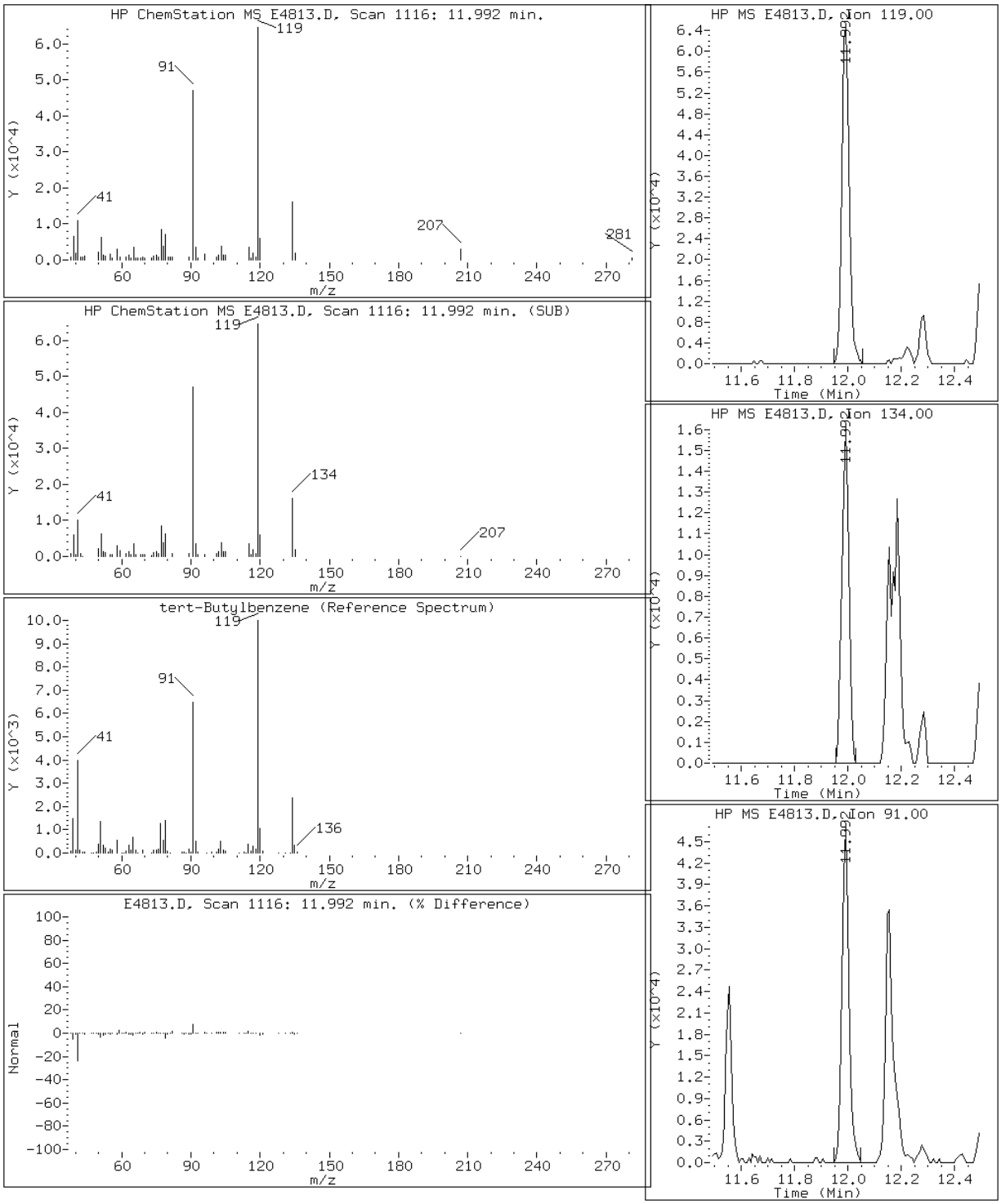
Data File: E4813.D

Date: 30-NOV-2011 00:16

Client ID: MW-18-111611 Instrument: E.i

Sample Info: 280-23017-b-1,,pH<2 Operator: TINKHAMS

107 tert-Butylbenzene



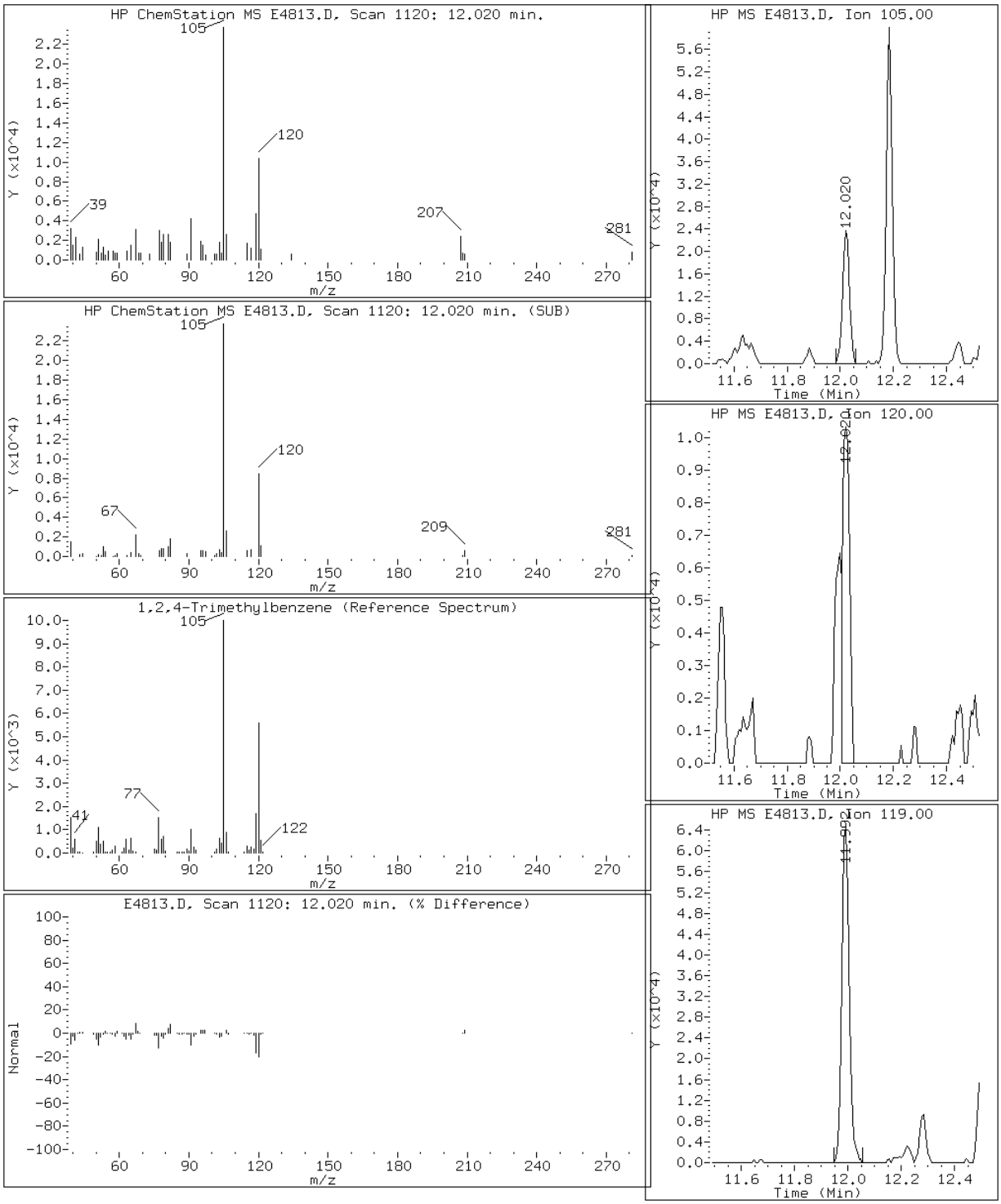
Data File: E4813.D

Date: 30-NOV-2011 00:16

Client ID: MW-18-111611 Instrument: E.i

Sample Info: 280-23017-b-1,,pH<2 Operator: TINKHAMS

108 1,2,4-Trimethylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-22-111611 | Lab Sample ID: 280-23017-2

Matrix: Water | Lab File ID: E4814.D

Analysis Method: 8260B | Date Collected: 11/16/2011 09:50

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 00:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	5.9		1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	3.1		1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-22-111611 | Lab Sample ID: 280-23017-2

Matrix: Water | Lab File ID: E4814.D

Analysis Method: 8260B | Date Collected: 11/16/2011 09:50

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 00:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.92	J *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	1.6		1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	1.1		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-22-111611 Lab Sample ID: 280-23017-2

Matrix: Water Lab File ID: E4814.D

Analysis Method: 8260B Date Collected: 11/16/2011 09:50

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 00:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	117		78-120
1868-53-7	Dibromofluoromethane (Surr)	93		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		70-127
2037-26-5	Toluene-d8 (Surr)	111		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4814.D
Lab Smp Id: 280-23017-A-2 Client Smp ID: MW-22-111611
Inj Date : 30-NOV-2011 00:36
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-a-2,,pH<2
Misc Info : 280-23017-A-2
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1744469	12.5000		
*	87 Chlorobenzene-d5	119	10.468	10.469	(1.000)	330684	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.420	12.421	(1.000)	412220	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.608	7.608	(0.932)	349401	12.0732	12.0732	
$	57 1,2-Dichloroethane-d4	65	7.909	7.916	(0.968)	272194	11.5587	11.5587	
$	75 Toluene-d8	98	9.346	9.346	(0.893)	1781386	14.3797	14.3797	
$	98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	540891	15.2115	15.2115	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	5.169	5.179	(0.633)	5767	0.20487	0.204874(a)	
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	Compound Not Detected.					
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	7.780	7.780	(0.953)	80127	0.92019	0.920188(aH)
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	7.994	7.995	(0.979)	934632	5.89400	5.89400
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	9.482	9.468	(0.906)	124072	6.92544	6.92544(Q)
79 1,1,2-Trichloroethane	97	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	10.526	10.526	(1.005)	157838	3.08294	3.08294
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	11.212	11.213	(0.903)	126564	0.91971	0.919714(a)
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	11.555	11.556	(0.930)	68087	1.61067	1.61067
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	124728	1.06654	1.06654(Q)
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	244066	2.24837	2.24837
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

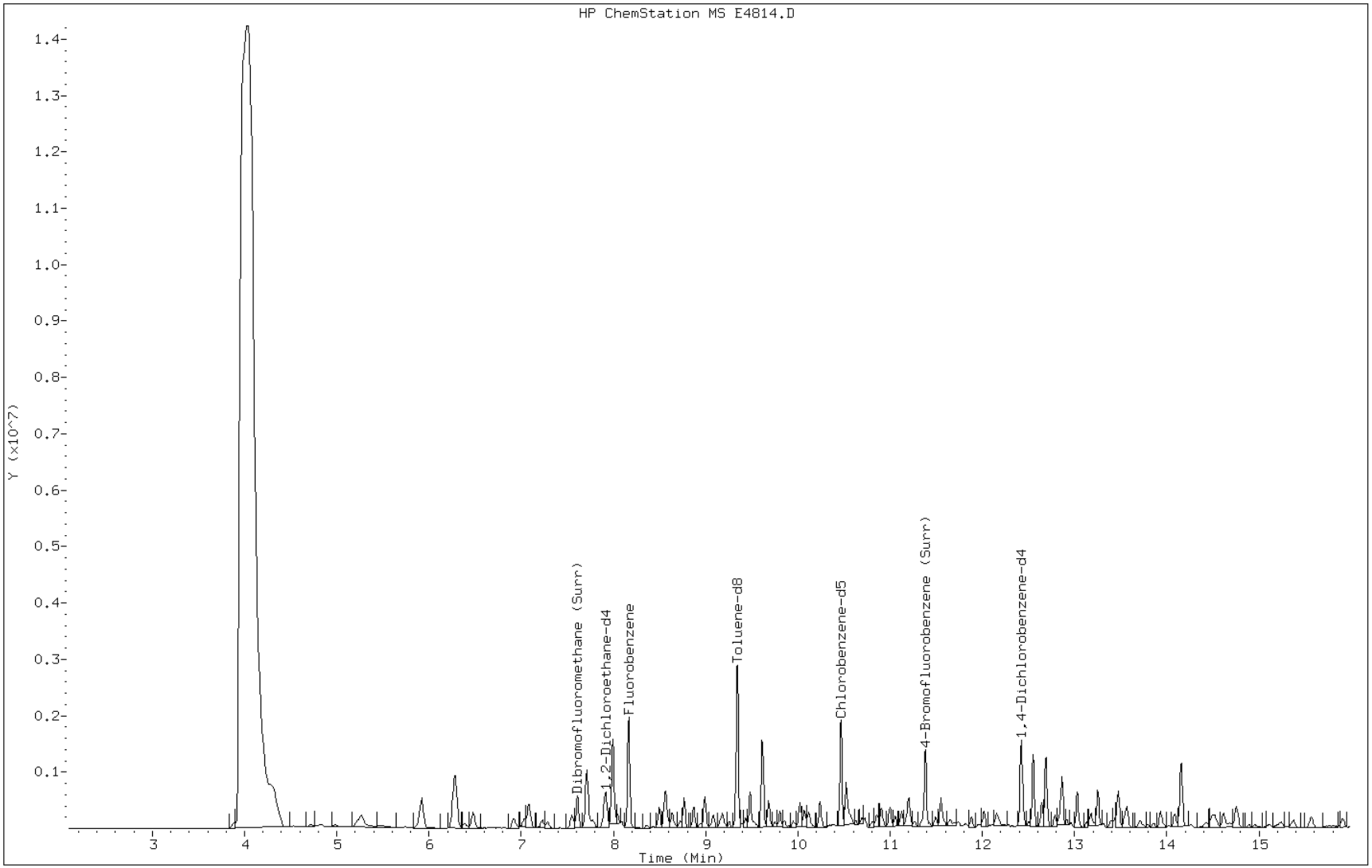
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: E4814.D

Date: 30-NOV-2011 00:36

Client ID: MW-22-111611 Instrument: E.i

Sample Info: 280-23017-a-2,,pH<2 Operator: TINKHAMS



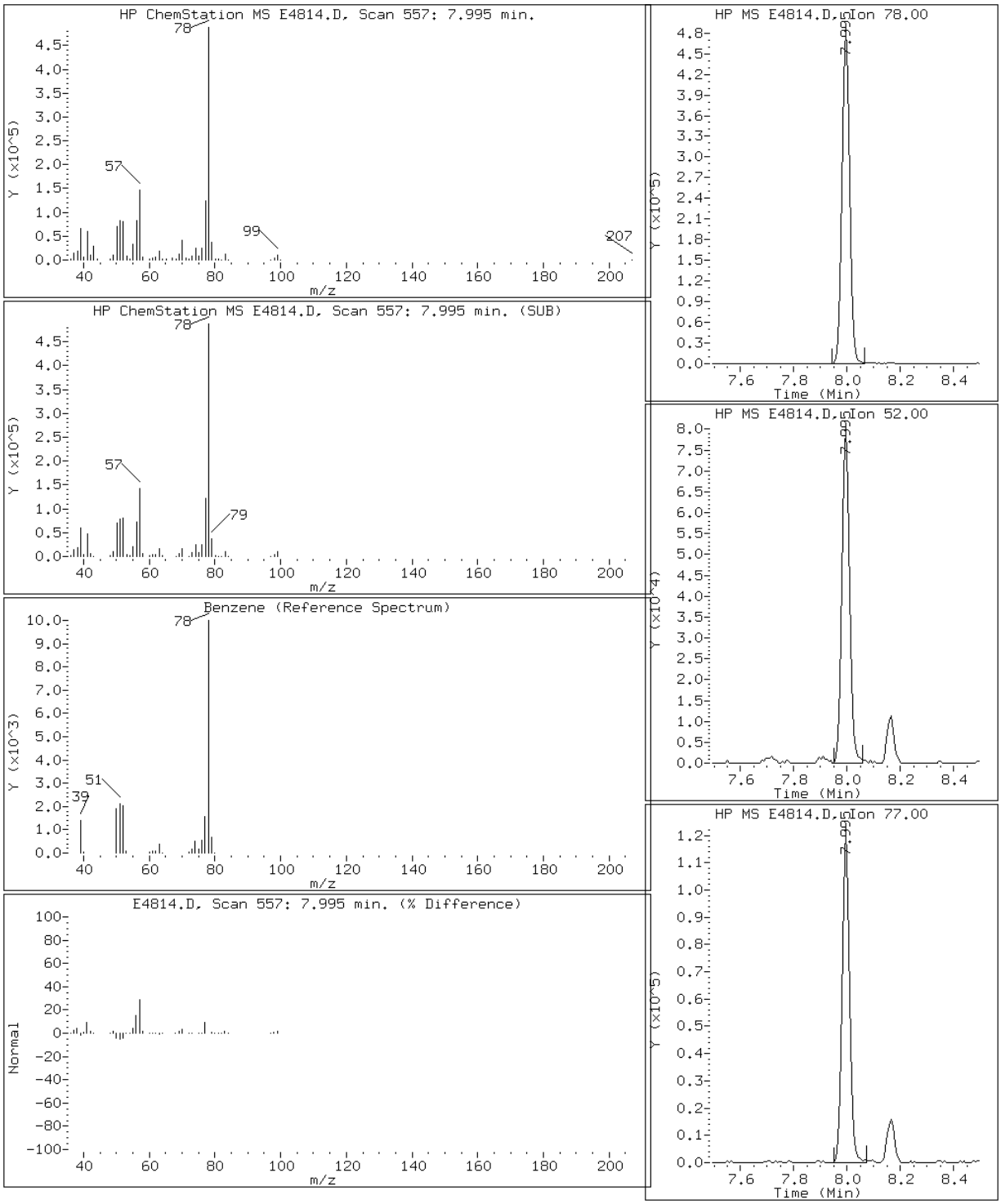
Data File: E4814.D

Date: 30-NOV-2011 00:36

Client ID: MW-22-111611 Instrument: E.i

Sample Info: 280-23017-a-2,,pH<2 Operator: TINKHAMS

60 Benzene



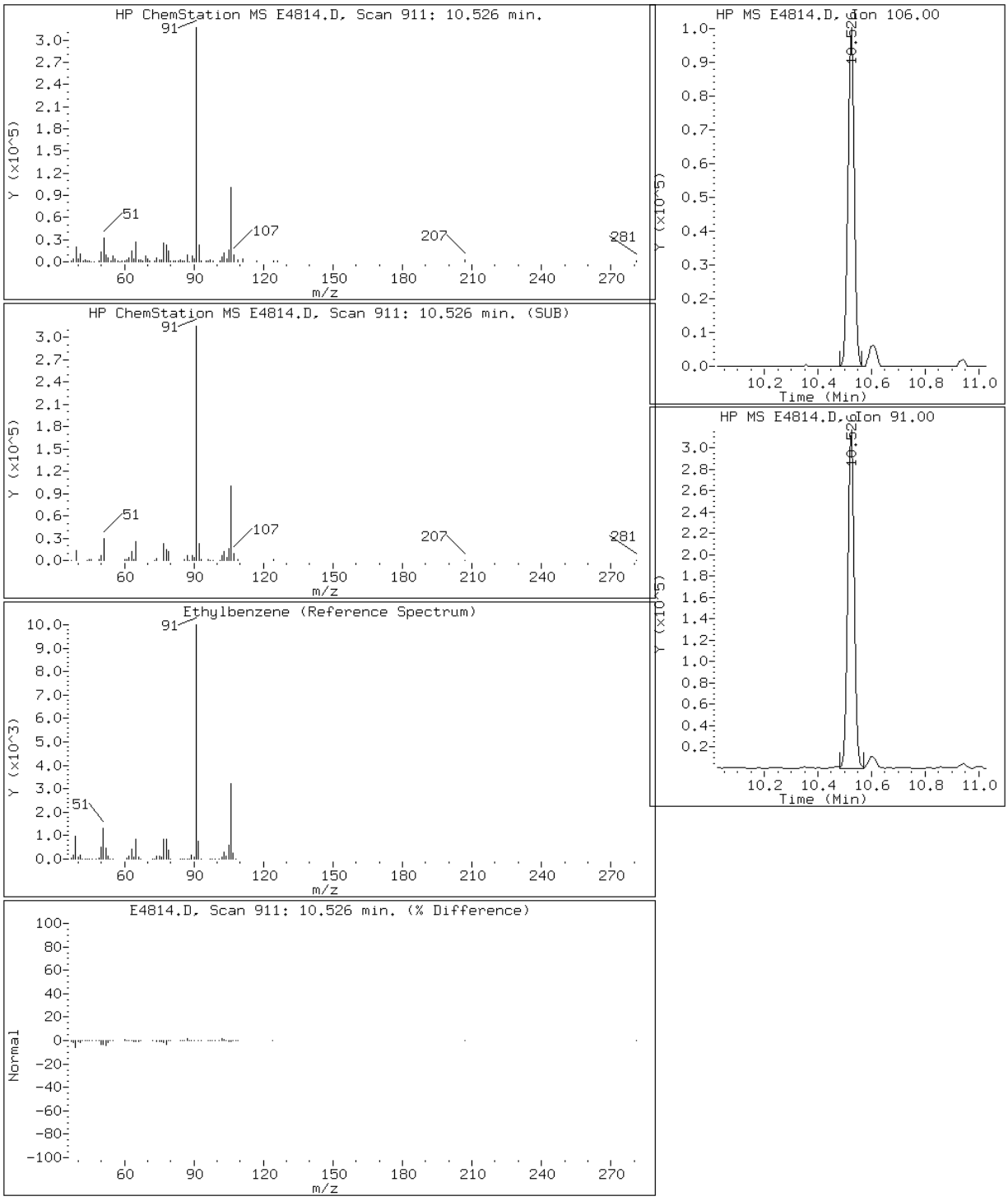
Data File: E4814.D

Date: 30-NOV-2011 00:36

Client ID: MW-22-111611 Instrument: E.i

Sample Info: 280-23017-a-2,,pH<2 Operator: TINKHAMS

90 Ethylbenzene



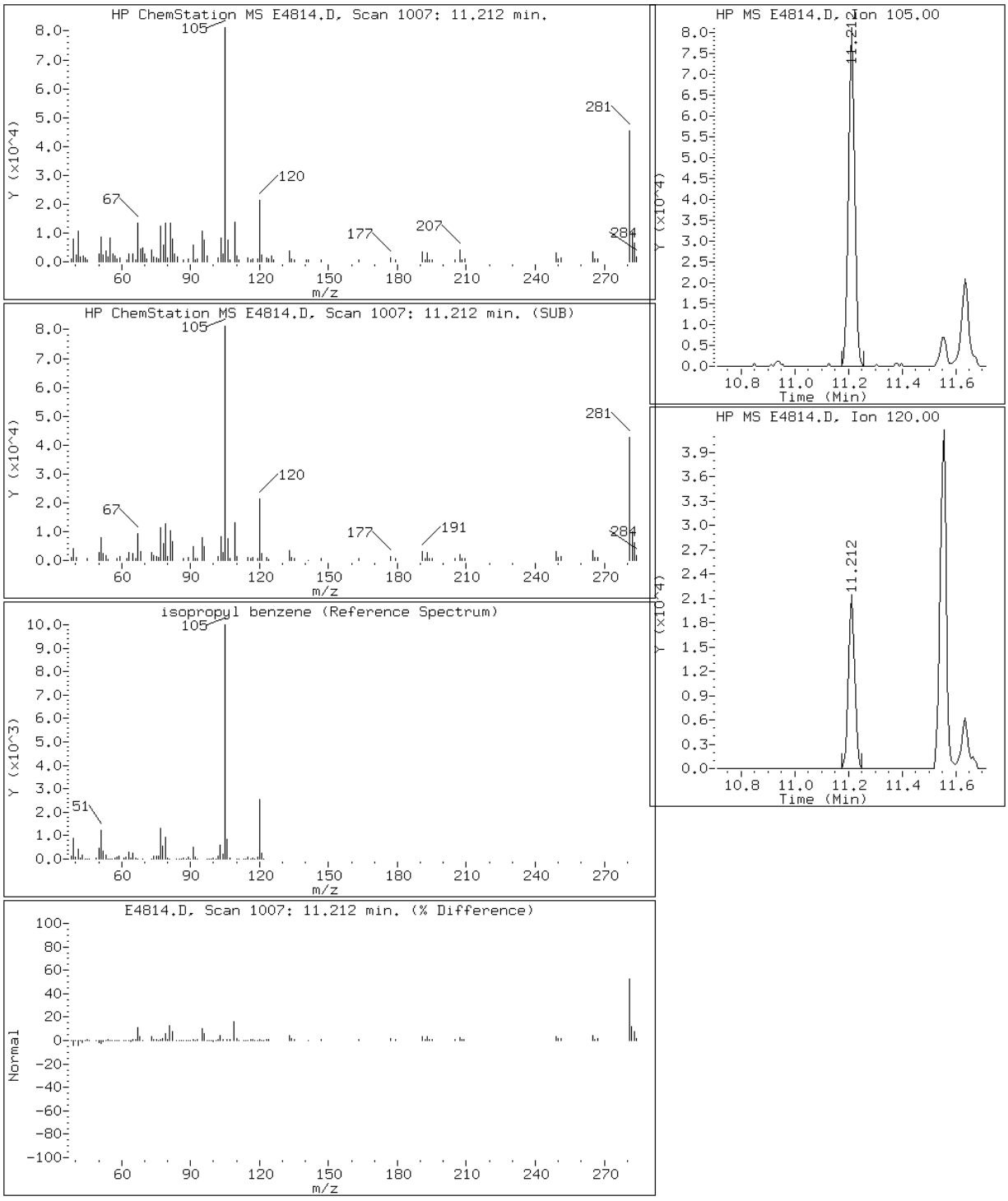
Data File: E4814.D

Date: 30-NOV-2011 00:36

Client ID: MW-22-111611 Instrument: E.i

Sample Info: 280-23017-a-2,,pH<2 Operator: TINKHAMS

95 isopropyl benzene



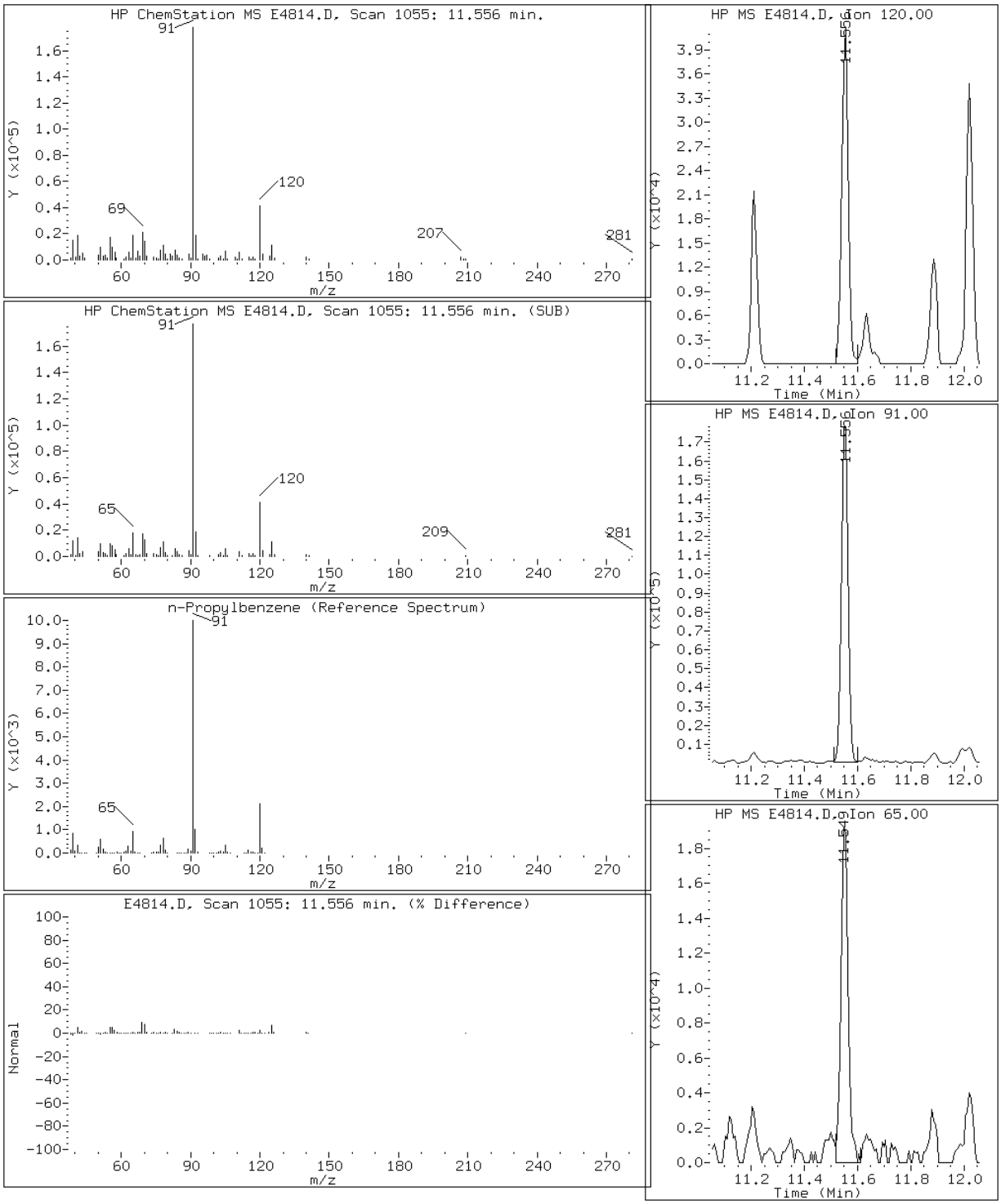
Data File: E4814.D

Date: 30-NOV-2011 00:36

Client ID: MW-22-111611 Instrument: E.i

Sample Info: 280-23017-a-2,,pH<2 Operator: TINKHAMS

102 n-Propylbenzene



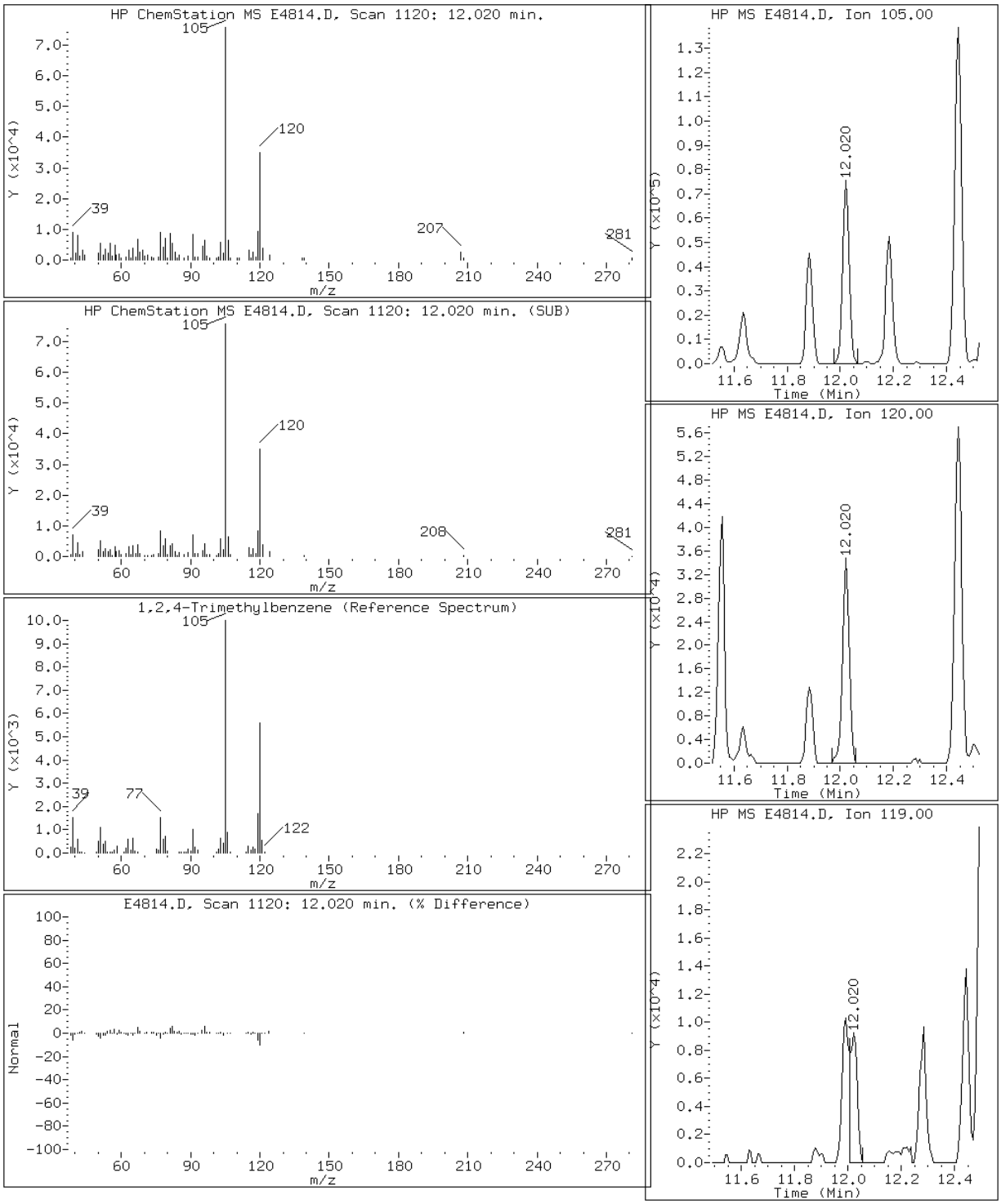
Data File: E4814.D

Date: 30-NOV-2011 00:36

Client ID: MW-22-111611 Instrument: E.i

Sample Info: 280-23017-a-2,,pH<2 Operator: TINKHAMS

108 1,2,4-Trimethylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-17-111611 | Lab Sample ID: 280-23017-3

Matrix: Water | Lab File ID: E4815.D

Analysis Method: 8260B | Date Collected: 11/16/2011 10:40

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 00:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	34		1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	4.0		1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-17-111611 | Lab Sample ID: 280-23017-3

Matrix: Water | Lab File ID: E4815.D

Analysis Method: 8260B | Date Collected: 11/16/2011 10:40

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 00:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.44	J *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.48	J	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	8.1		2.0	0.34
91-20-3	Naphthalene	0.60	J	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.39	J	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.70	J	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.20	J	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.42	J	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	3.3		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	8.1		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-17-111611 Lab Sample ID: 280-23017-3

Matrix: Water Lab File ID: E4815.D

Analysis Method: 8260B Date Collected: 11/16/2011 10:40

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 00:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		78-120
1868-53-7	Dibromofluoromethane (Surr)	87		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		70-127
2037-26-5	Toluene-d8 (Surr)	106		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4815.D
Lab Smp Id: 280-23017-B-3 Client Smp ID: MW-17-111611
Inj Date : 30-NOV-2011 00:55
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-b-3,,pH<2
Misc Info : 280-23017-B-3
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	61 Fluorobenzene	96	8.160	8.166	(1.000)	1942115	12.5000	
*	87 Chlorobenzene-d5	119	10.462	10.469	(1.000)	376928	12.5000	
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	475751	12.5000	
$	51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.933)	366030	11.3606	11.3606
$	57 1,2-Dichloroethane-d4	65	7.910	7.916	(0.969)	287336	10.9600	10.9600
$	75 Toluene-d8	98	9.340	9.346	(0.893)	1938782	13.7301	13.7301(Q)
$	98 4-Bromofluorobenzene (Surr)	95	11.378	11.384	(0.916)	585450	14.2659	14.2659
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M	2 Xylene (total)	106				573825	8.06482	8.06482
	6 dichlorodifluoromethane	85	Compound Not Detected.					
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
	8 Chloromethane	50	Compound Not Detected.					
	9 Vinyl Chloride	62	Compound Not Detected.					
	11 Ethylene Oxide	43	Compound Not Detected.					
	12 Bromomethane	94	Compound Not Detected.					
	13 Chloroethane	64	Compound Not Detected.					
	14 Dichlorofluoromethane	67	Compound Not Detected.					
	15 Trichlorofluoromethane	101	Compound Not Detected.					
	16 Ethanol	45	Compound Not Detected.					
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					
	18 Ethyl Ether	59	Compound Not Detected.					
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	Compound Not Detected.					
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	6.666	6.665	(0.637)	42370	0.57490	0.574905(a)
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	7.774	7.780	(0.953)	885374	9.13299	9.13299
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	7.995	7.995	(0.980)	5999873	33.9860	33.9860
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	9.397	9.397	(1.152)	80663	0.41813	0.418128(a)
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	10.519	10.526	(1.005)	235827	4.04112	4.04112
91	m and p-Xylene	106	10.605	10.605	(1.014)	573825	8.06482	8.06482
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	11.213	11.213	(0.903)	70162	0.44177	0.441768(a)
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	11.556	11.556	(0.930)	19119	0.39188	0.391883(a)
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	28778	0.20319	0.203187(aQ)
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	448316	3.32159	3.32159(Q)
109	sec-Butylbenzene	134	12.178	12.185	(0.980)	27416	0.70379	0.703794(a)
110	4-Isopropyltoluene	119	12.278	12.285	(0.988)	74724	0.48083	0.480832(a)
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	12.443	12.442	(1.002)	700980	5.59520	5.59520
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	15.131	15.138	(1.218)	27765	0.60080	0.600804(a)
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

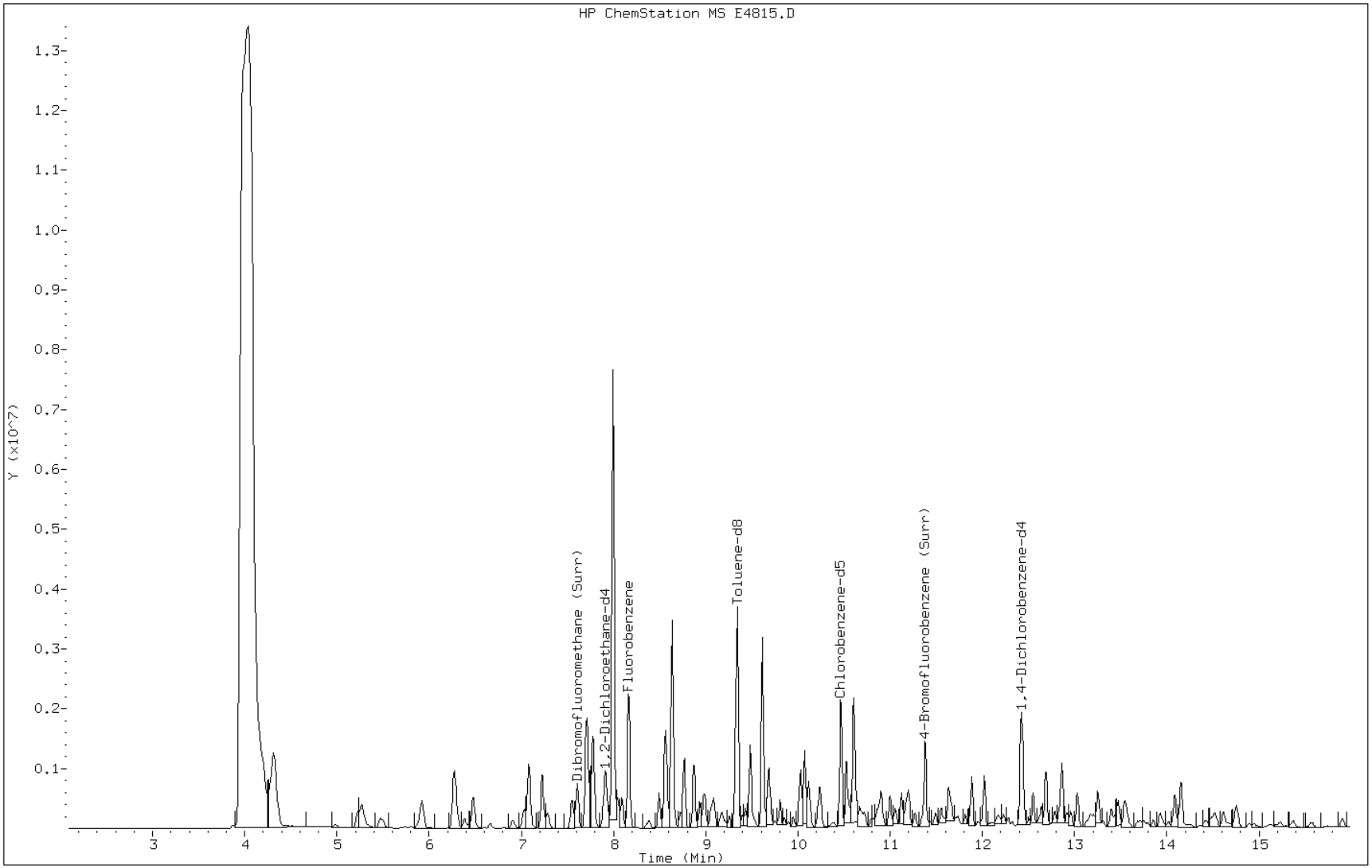
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS



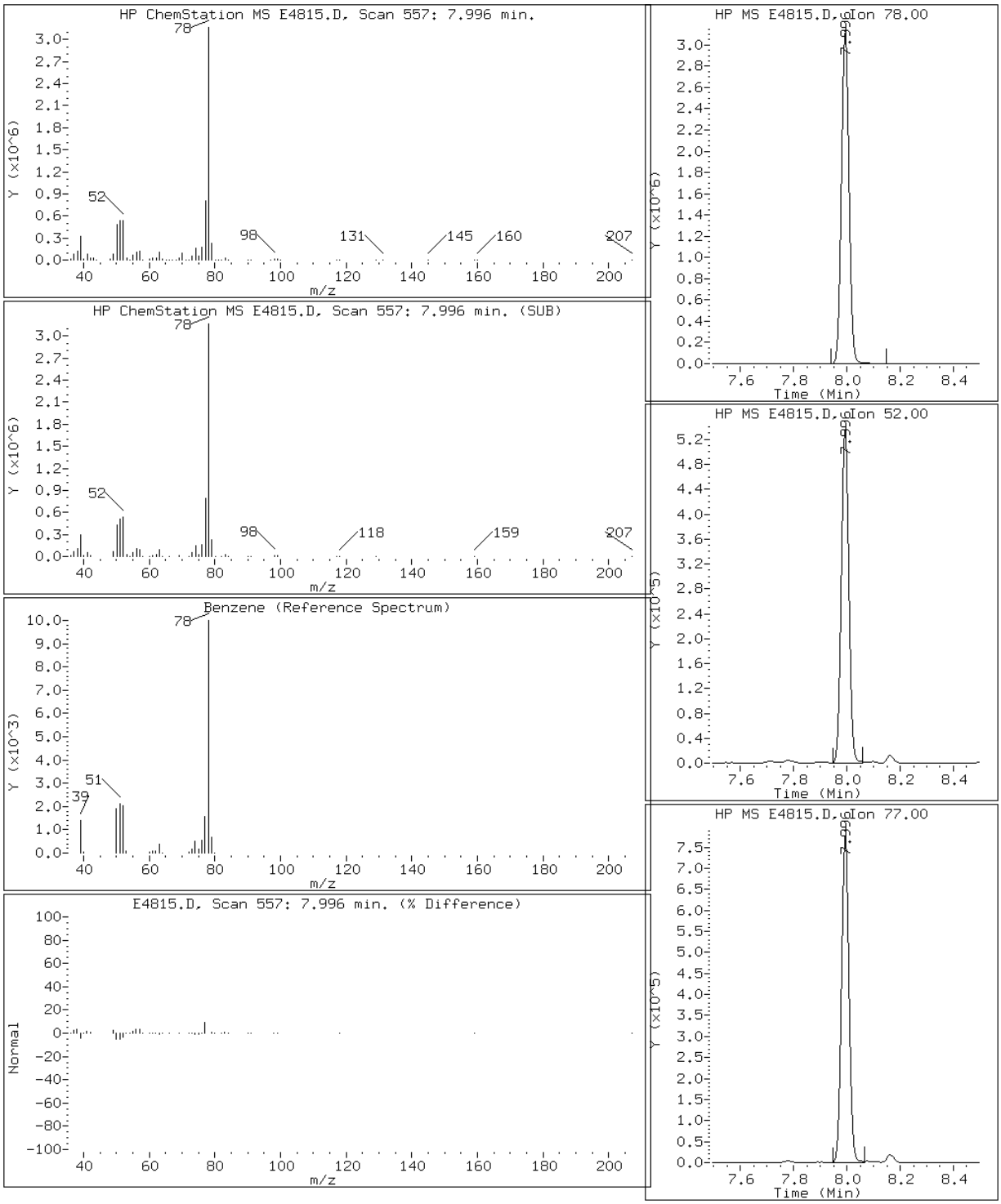
Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

60 Benzene



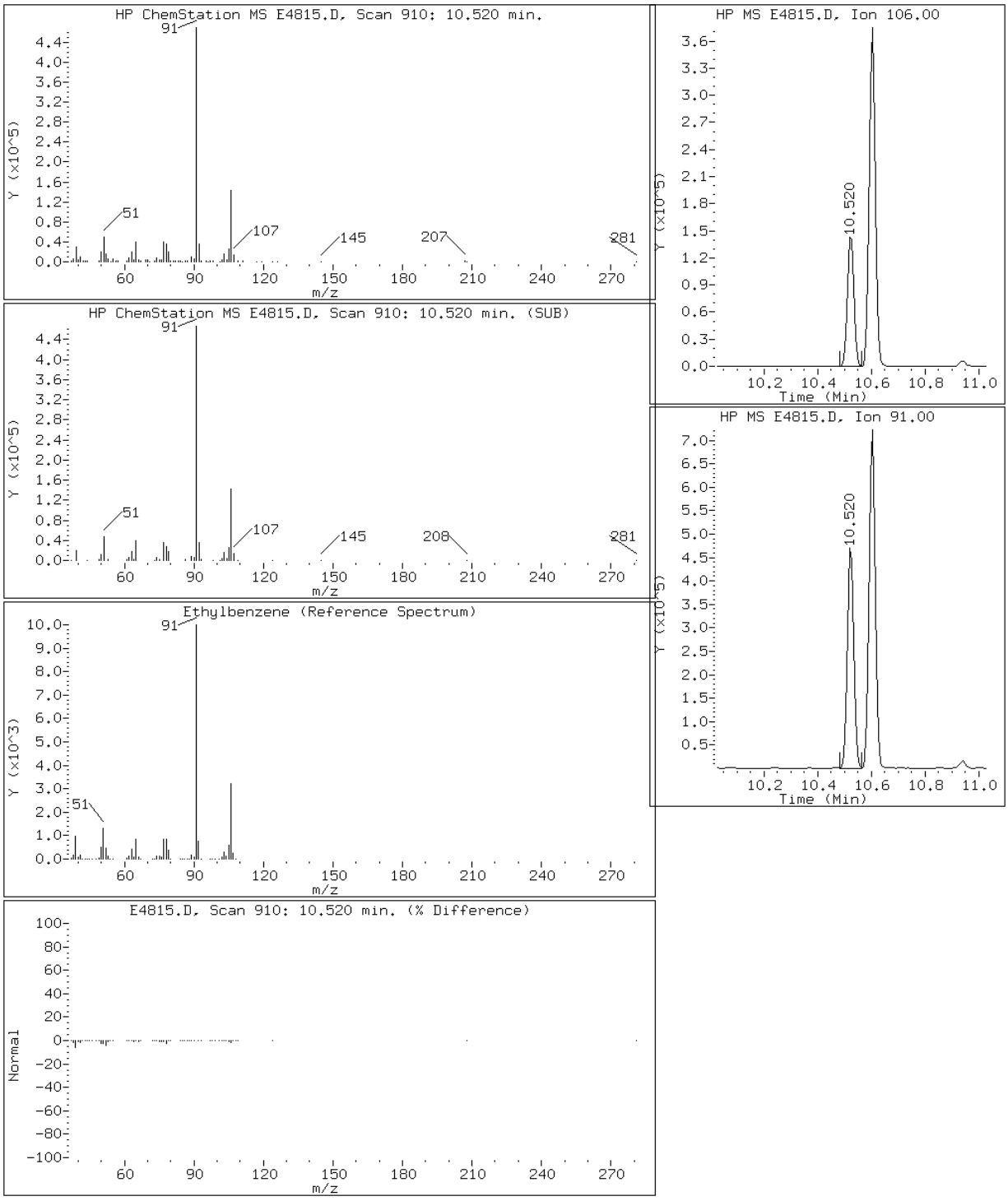
Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

90 Ethylbenzene



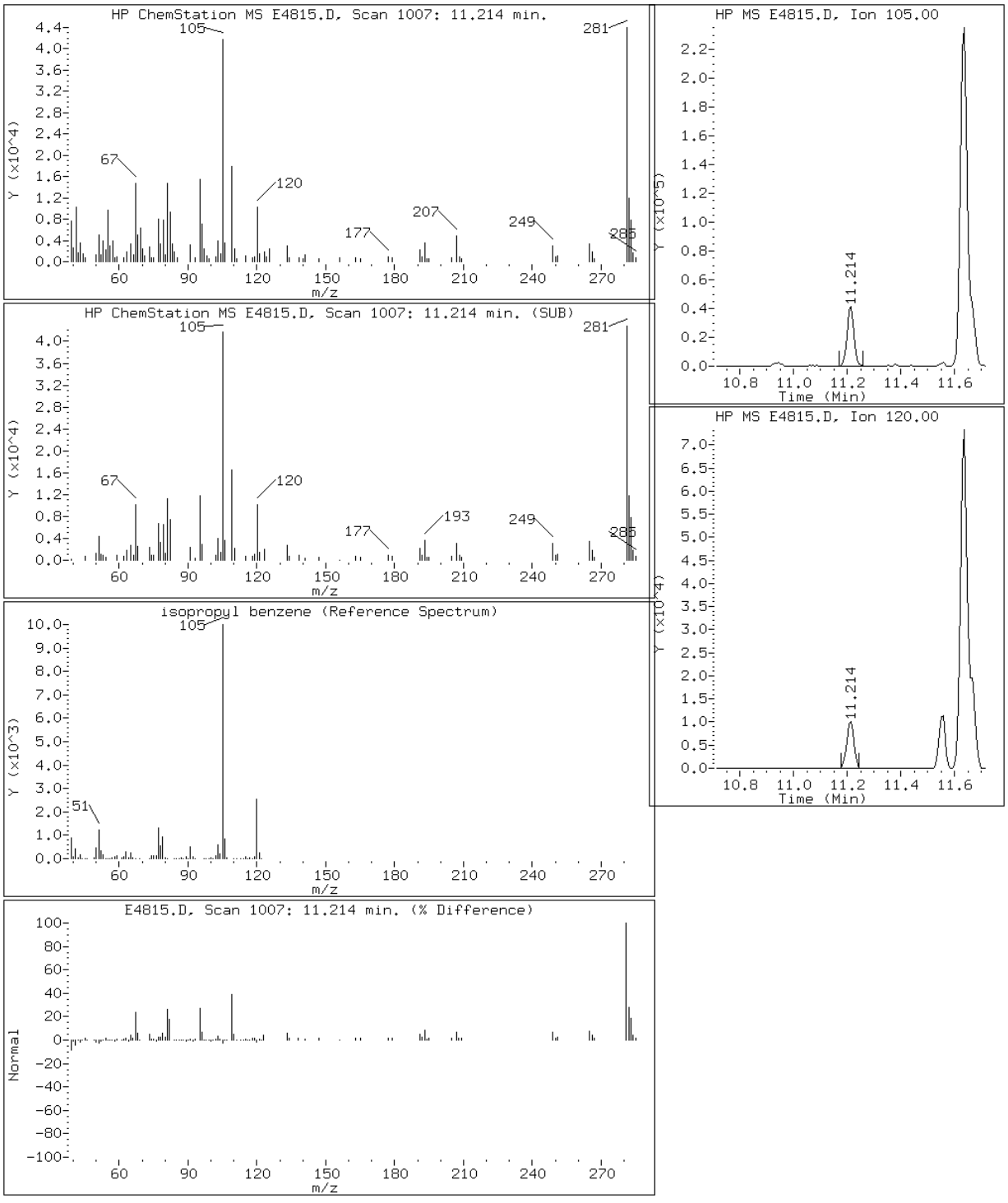
Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

95 isopropyl benzene



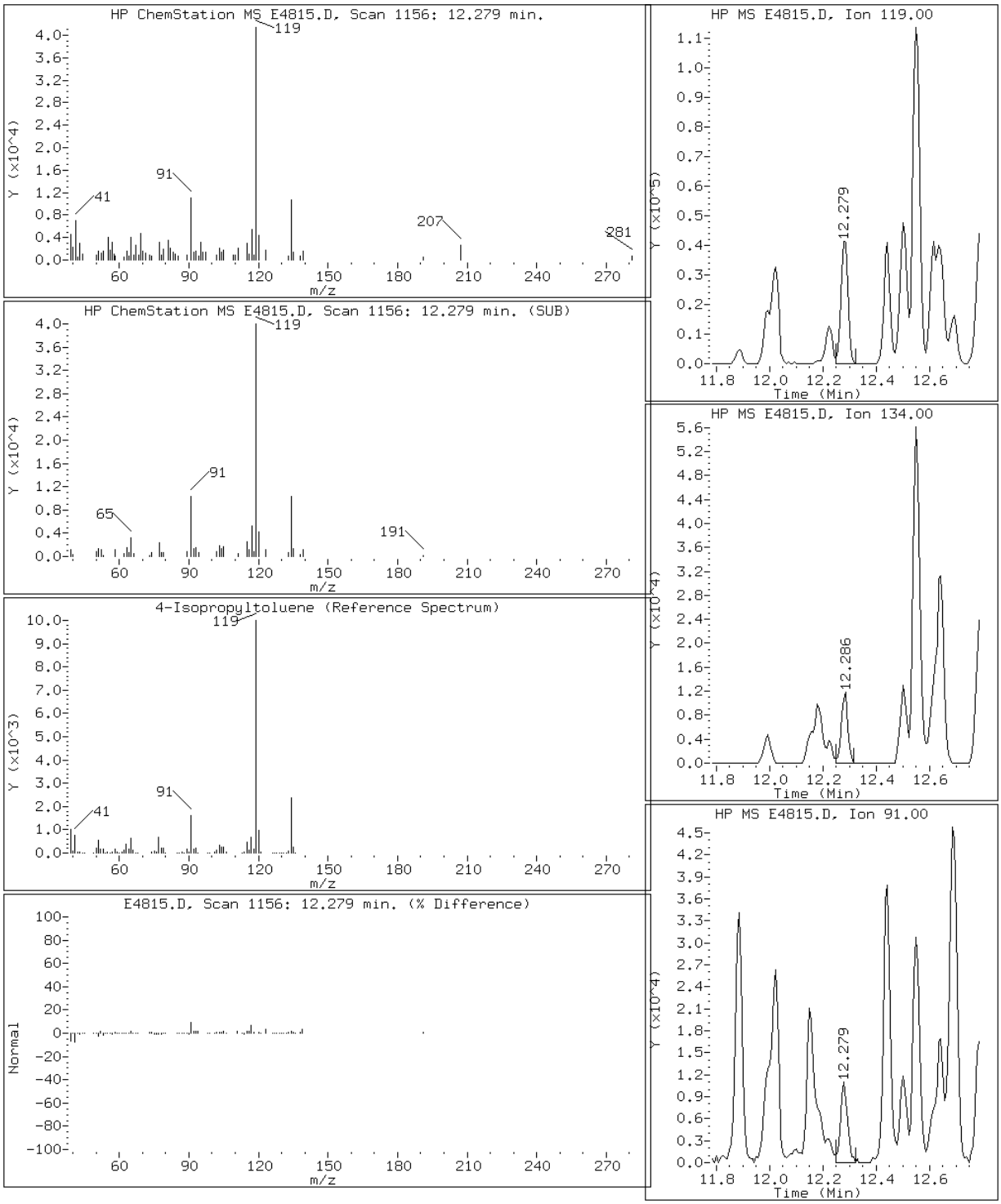
Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

110 4-Isopropyltoluene



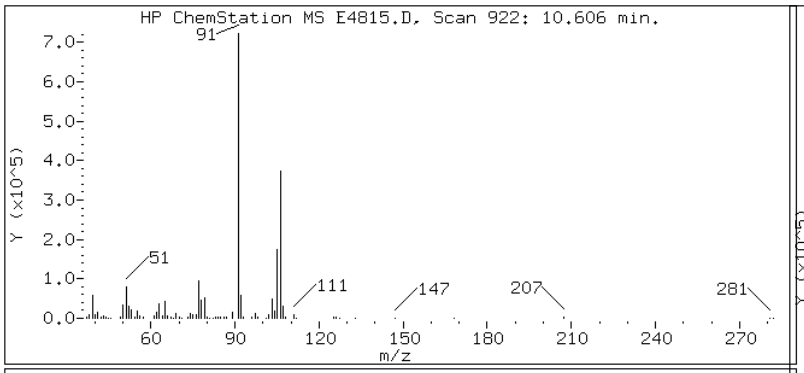
Data File: E4815.D

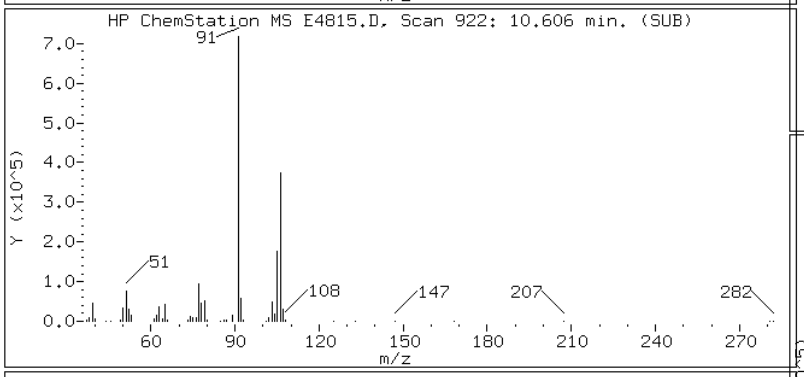
Date: 30-NOV-2011 00:55

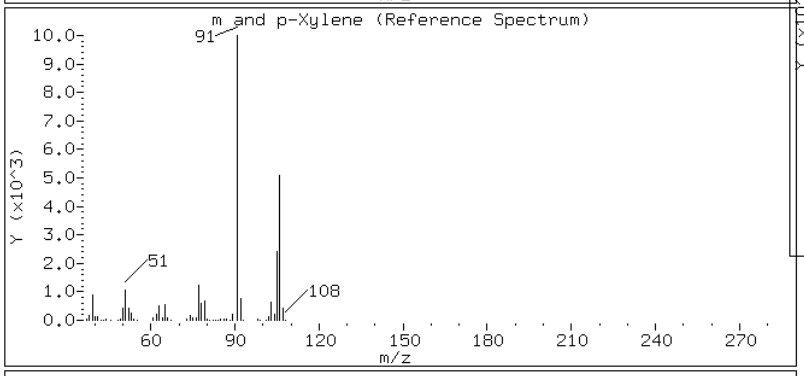
Client ID: MW-17-111611 Instrument: E.i

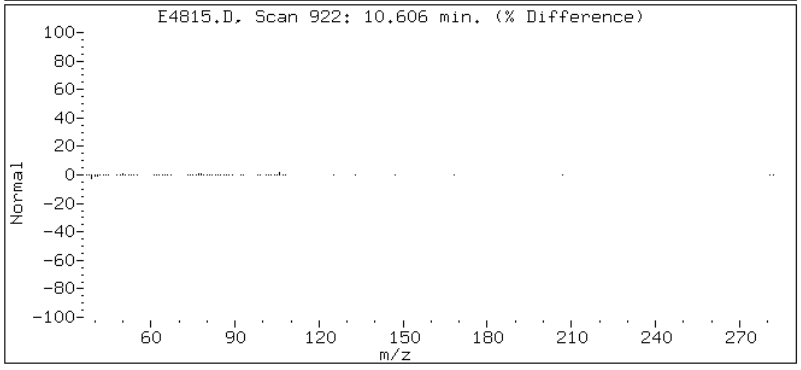
Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

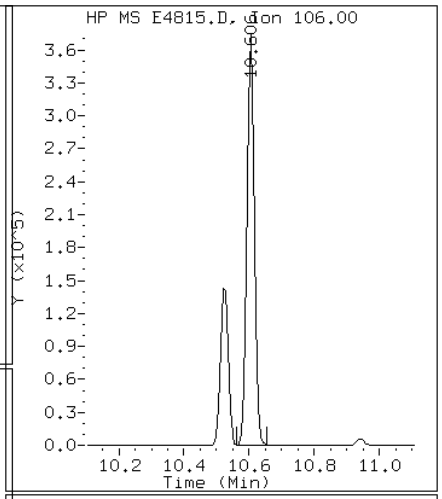
91 m and p-Xylene

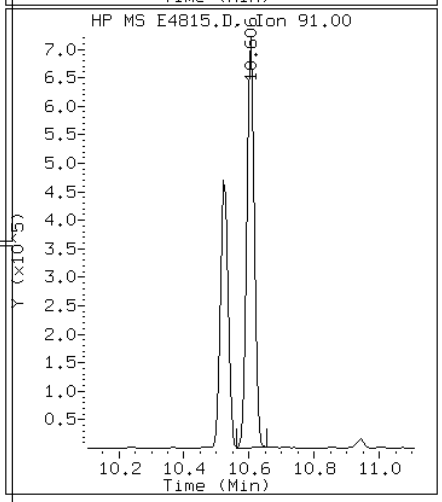












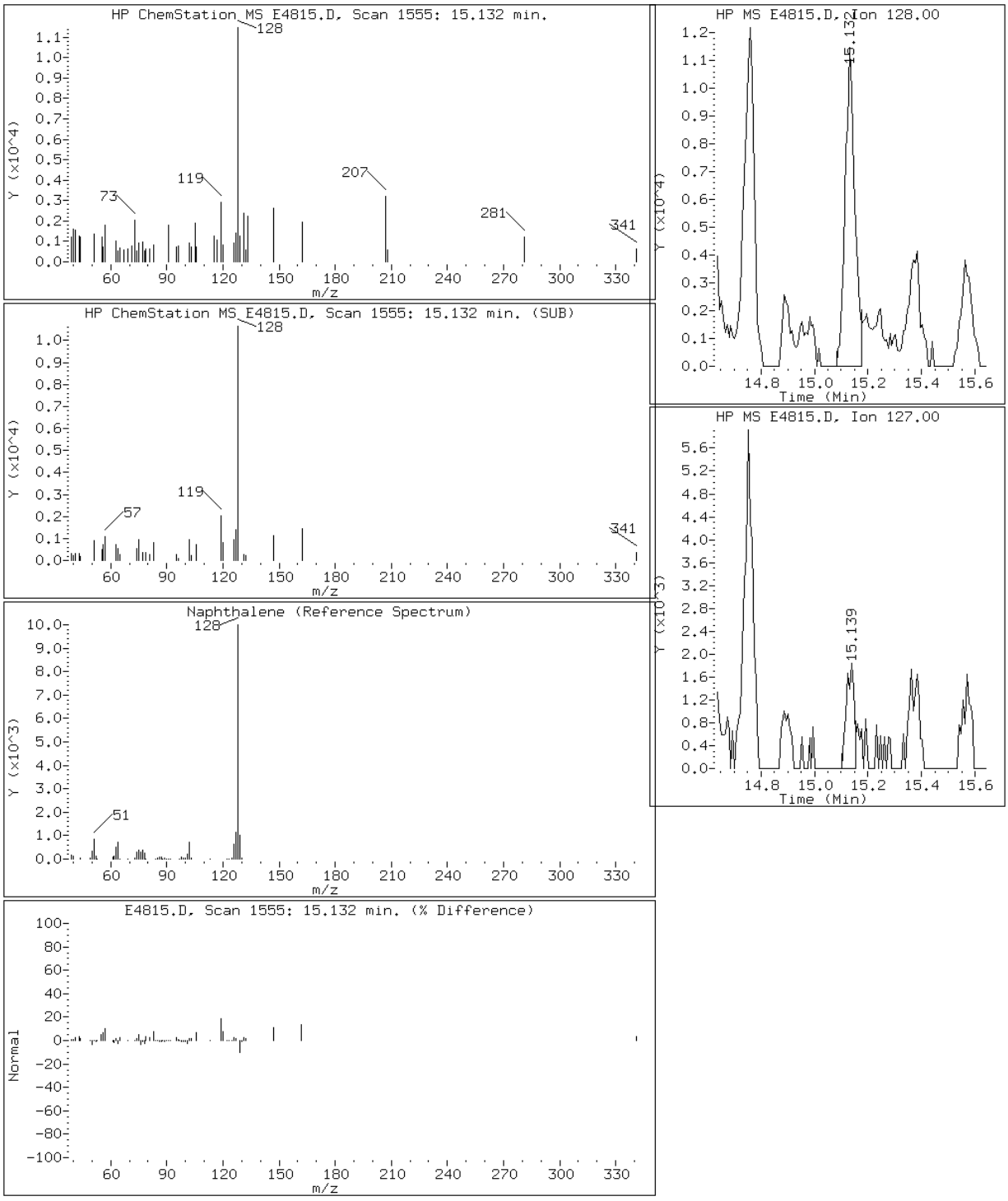
Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

120 Naphthalene



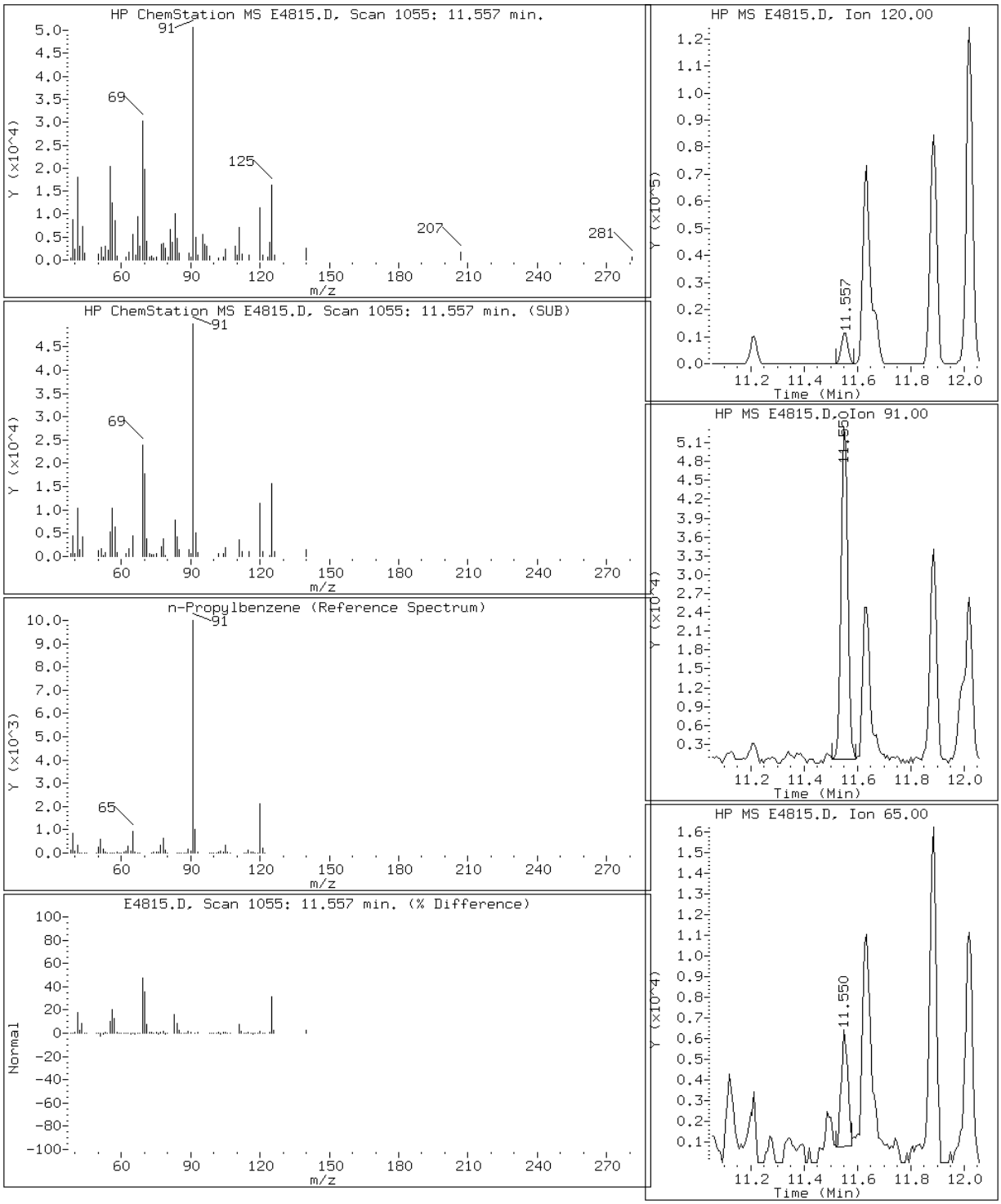
Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

102 n-Propylbenzene



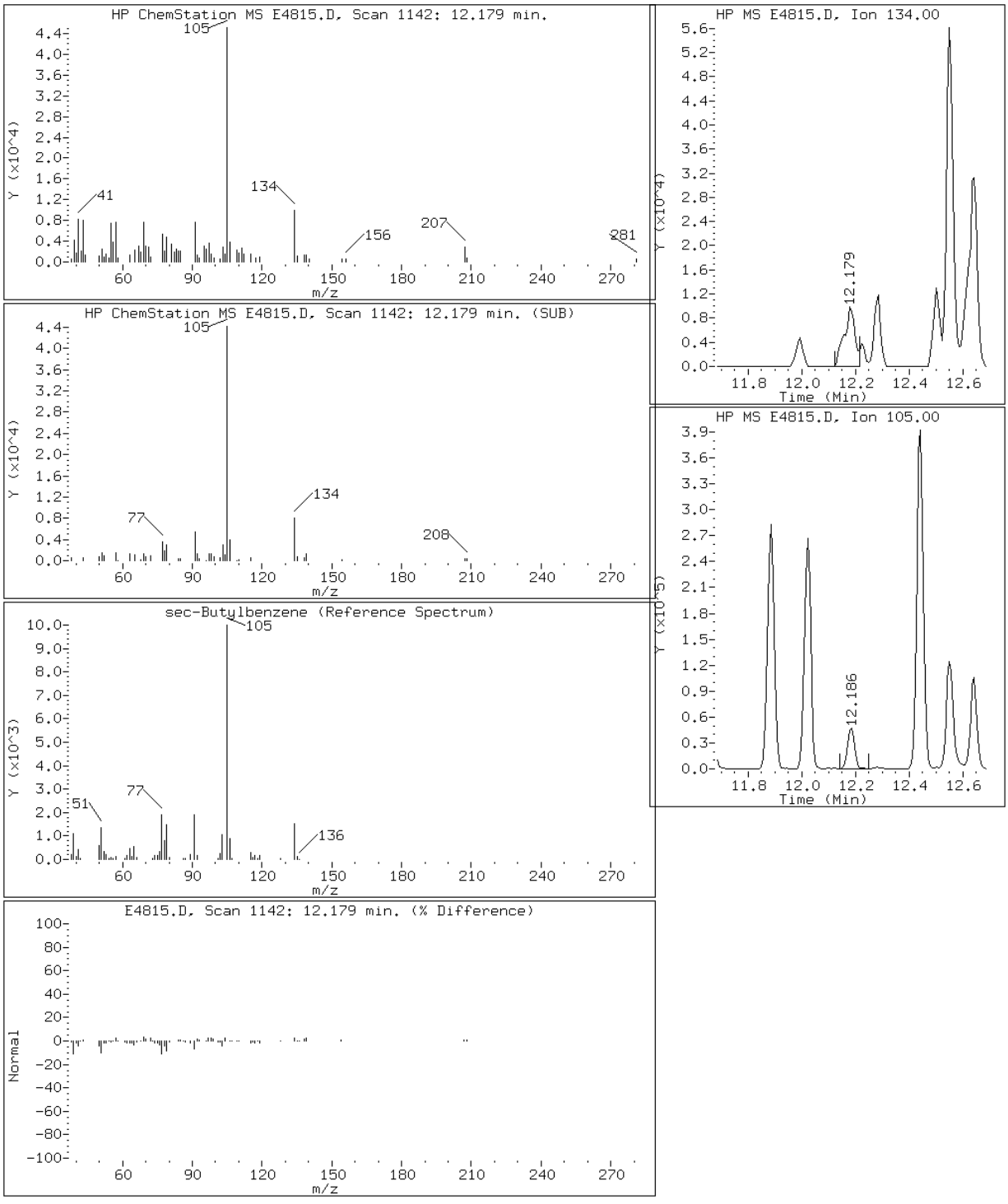
Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

109 sec-Butylbenzene



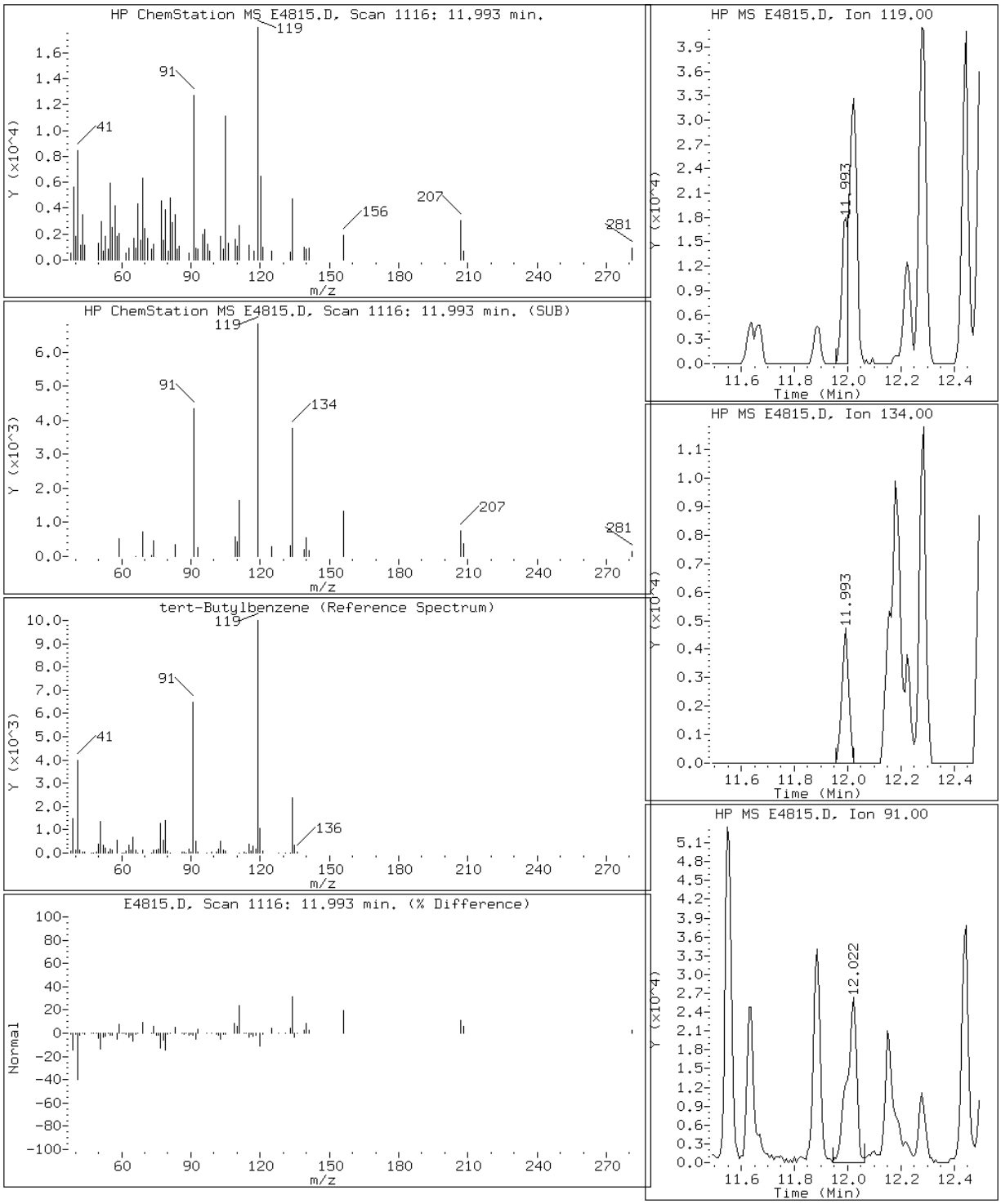
Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

107 tert-Butylbenzene



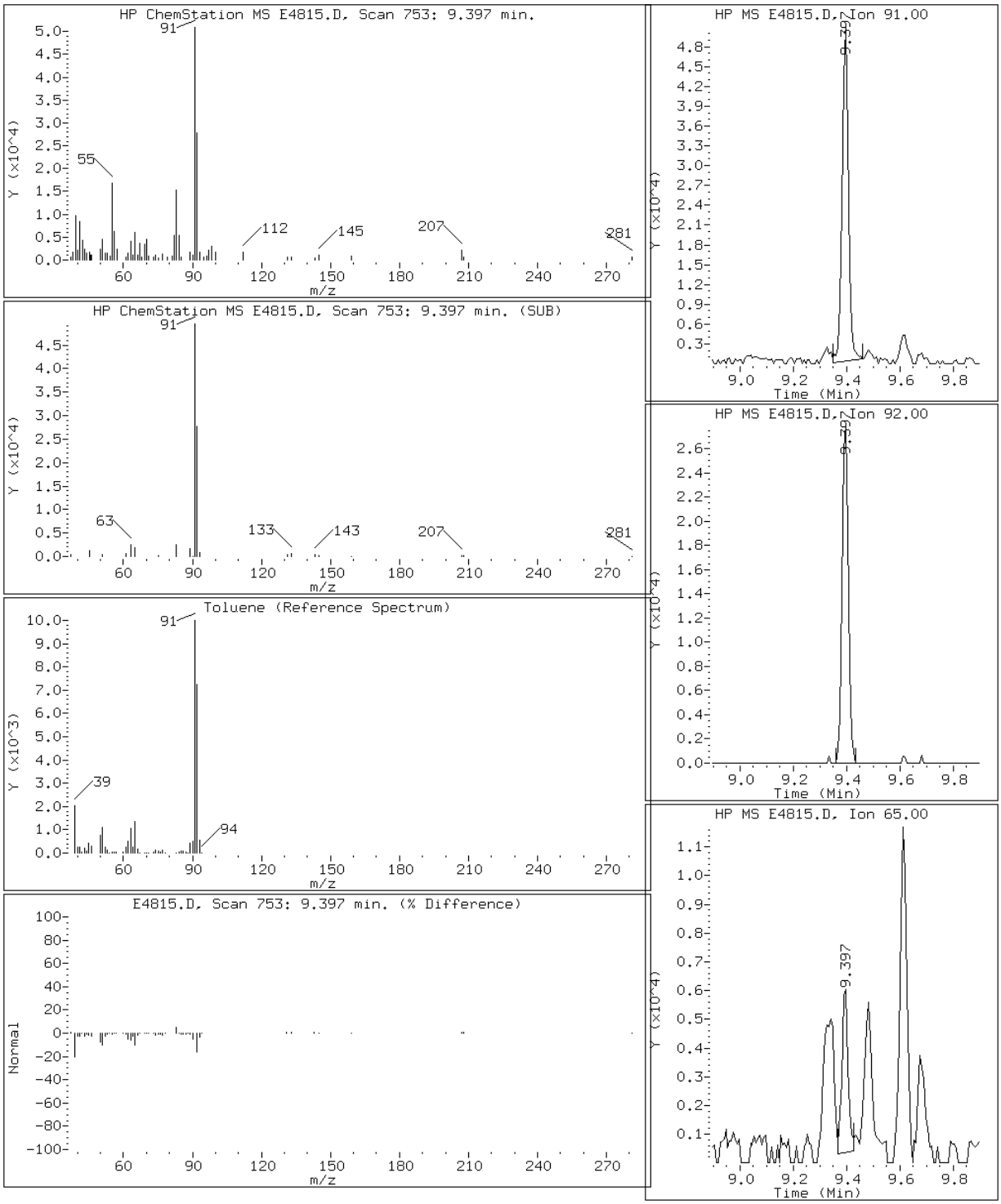
Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

76 Toluene



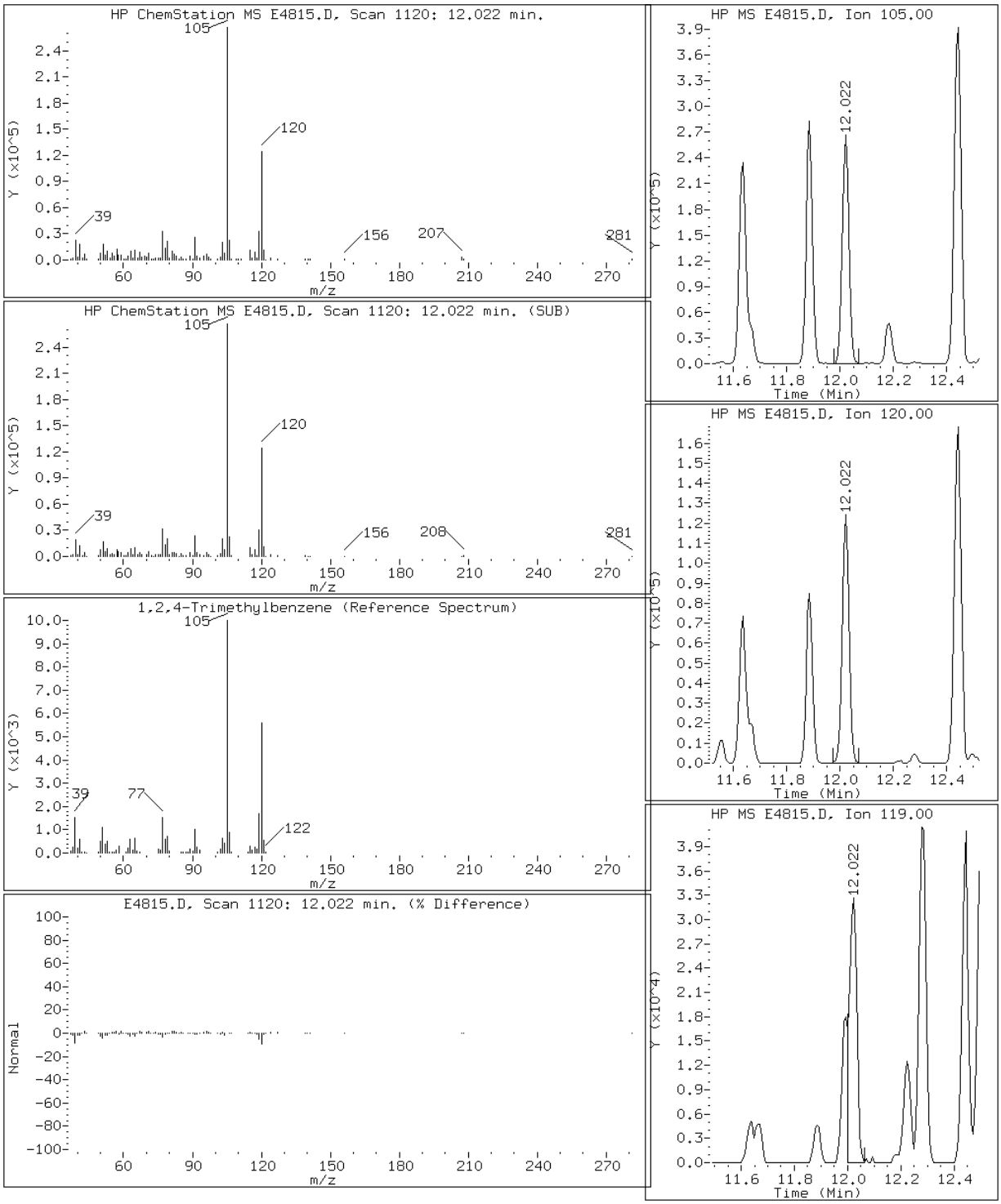
Data File: E4815.D

Date: 30-NOV-2011 00:55

Client ID: MW-17-111611 Instrument: E.i

Sample Info: 280-23017-b-3,,pH<2 Operator: TINKHAMS

108 1,2,4-Trimethylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-19-111611 | Lab Sample ID: 280-23017-4

Matrix: Water | Lab File ID: E4816.D

Analysis Method: 8260B | Date Collected: 11/16/2011 11:30

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 01:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-19-111611 | Lab Sample ID: 280-23017-4

Matrix: Water | Lab File ID: E4816.D

Analysis Method: 8260B | Date Collected: 11/16/2011 11:30

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 01:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.56	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-19-111611 Lab Sample ID: 280-23017-4

Matrix: Water Lab File ID: E4816.D

Analysis Method: 8260B Date Collected: 11/16/2011 11:30

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 01:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		78-120
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		70-127
2037-26-5	Toluene-d8 (Surr)	108		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4816.D
Lab Smp Id: 280-23017-A-4 Client Smp ID: MW-19-111611
Inj Date : 30-NOV-2011 01:14
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-a-4,,pH<2
Misc Info : 280-23017-A-4
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1932727	12.5000		
*	87 Chlorobenzene-d5	119	10.468	10.469	(1.000)	370811	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.420	12.421	(1.000)	461182	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.608	7.608	(0.932)	380228	11.8586	11.8586	
$	57 1,2-Dichloroethane-d4	65	7.916	7.916	(0.969)	302848	11.6078	11.6078	
$	75 Toluene-d8	98	9.346	9.346	(0.893)	1954195	14.0676	14.0676	
$	98 4-Bromofluorobenzene (Surr)	95	11.376	11.384	(0.916)	550407	13.8357	13.8357	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.278	6.272	(0.769)	21436	0.55945	0.559450(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

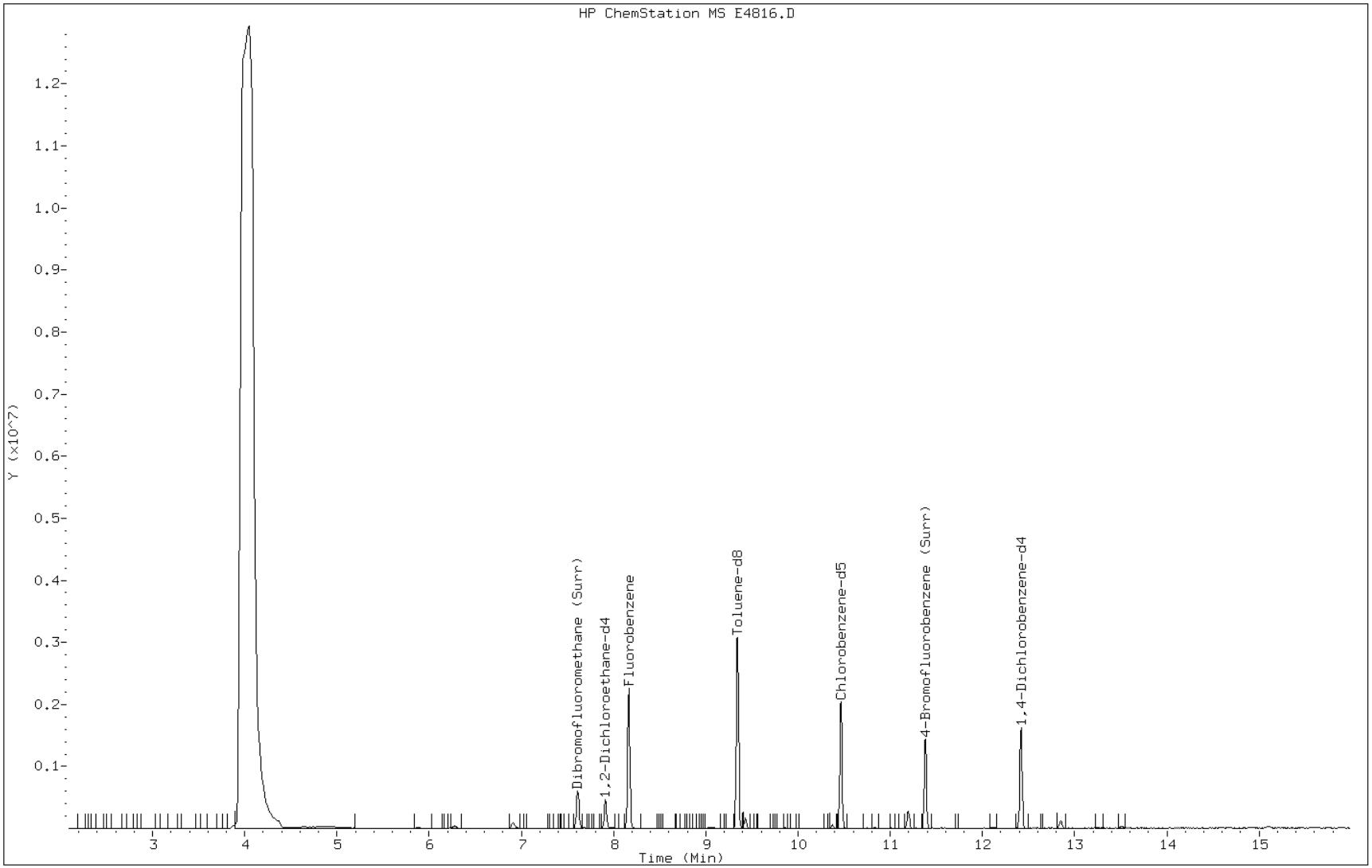
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4816.D

Date: 30-NOV-2011 01:14

Client ID: MW-19-111611 Instrument: E.i

Sample Info: 280-23017-a-4,,pH<2 Operator: TINKHAMS



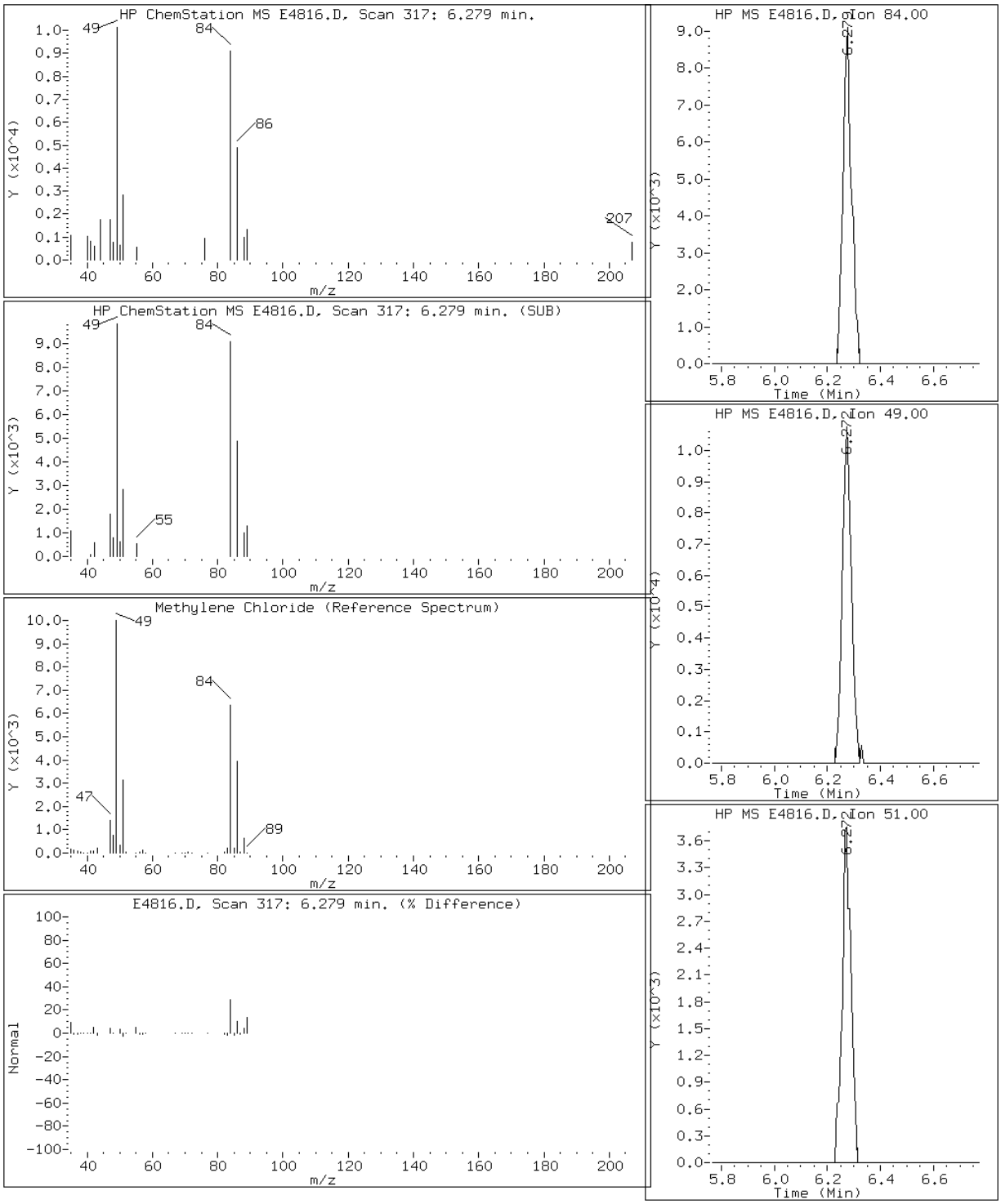
Data File: E4816.D

Date: 30-NOV-2011 01:14

Client ID: MW-19-111611 Instrument: E.i

Sample Info: 280-23017-a-4,,pH<2 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-10-111611 | Lab Sample ID: 280-23017-5

Matrix: Water | Lab File ID: E4817.D

Analysis Method: 8260B | Date Collected: 11/16/2011 11:50

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 01:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-10-111611 | Lab Sample ID: 280-23017-5

Matrix: Water | Lab File ID: E4817.D

Analysis Method: 8260B | Date Collected: 11/16/2011 11:50

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 01:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.56	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-10-111611 Lab Sample ID: 280-23017-5

Matrix: Water Lab File ID: E4817.D

Analysis Method: 8260B Date Collected: 11/16/2011 11:50

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		70-127
2037-26-5	Toluene-d8 (Surr)	110		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4817.D
Lab Smp Id: 280-23017-B-5 Client Smp ID: MW-10-111611
Inj Date : 30-NOV-2011 01:33
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-b-5,,pH<2
Misc Info : 280-23017-B-5
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.167	8.166	(1.000)	2004648	12.5000		
*	87 Chlorobenzene-d5	119	10.463	10.469	(1.000)	376237	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.422	12.421	(1.000)	469948	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.610	7.608	(0.932)	394142	11.8515	11.8515	
$	57 1,2-Dichloroethane-d4	65	7.910	7.916	(0.968)	293219	10.8355	10.8355	
$	75 Toluene-d8	98	9.340	9.346	(0.893)	2008470	14.2498	14.2498	
$	98 4-Bromofluorobenzene (Surr)	95	11.378	11.384	(0.916)	552642	13.6328	13.6328	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.273	6.272	(0.768)	22247	0.55979	0.559785(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

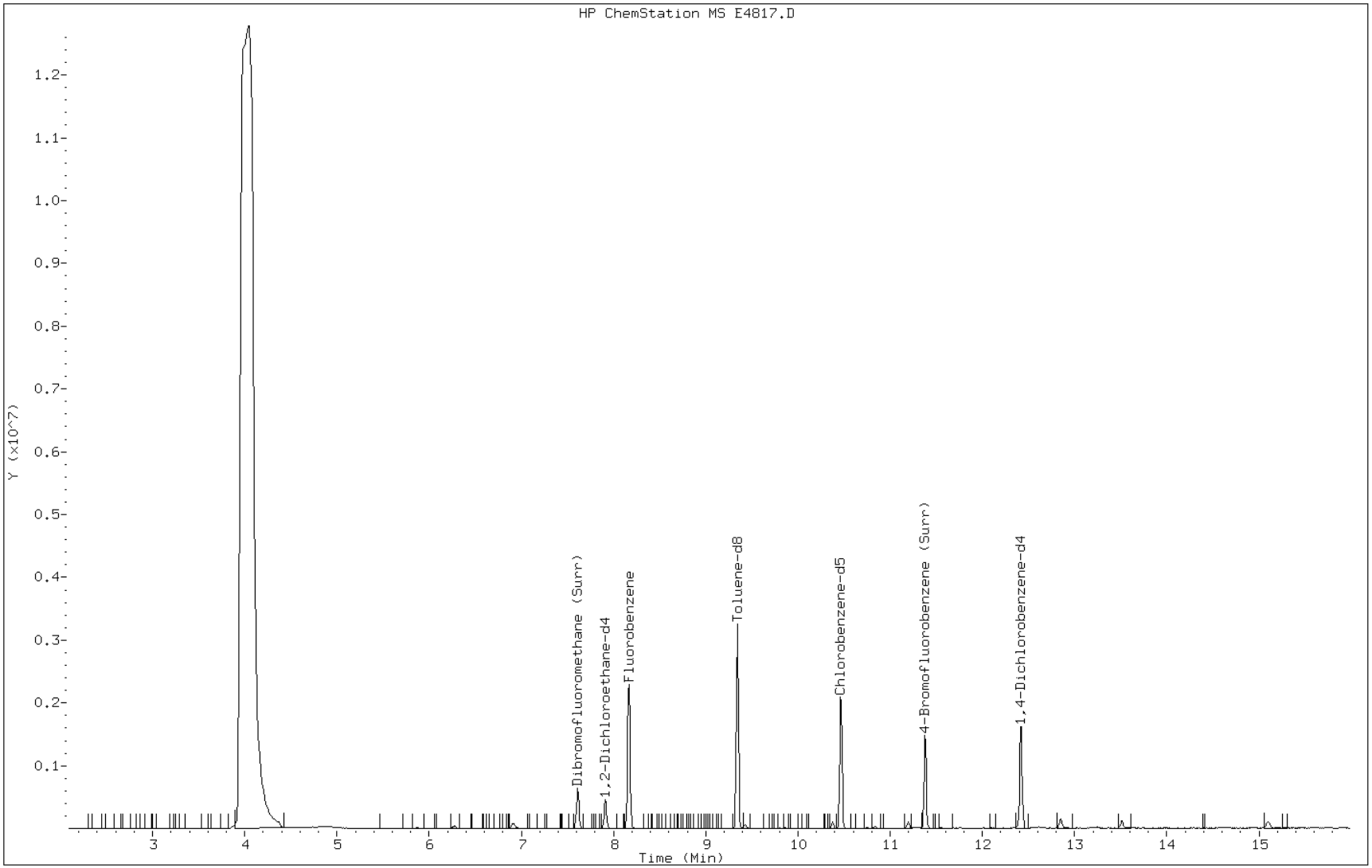
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4817.D

Date: 30-NOV-2011 01:33

Client ID: MW-10-111611 Instrument: E.i

Sample Info: 280-23017-b-5,,pH<2 Operator: TINKHAMS



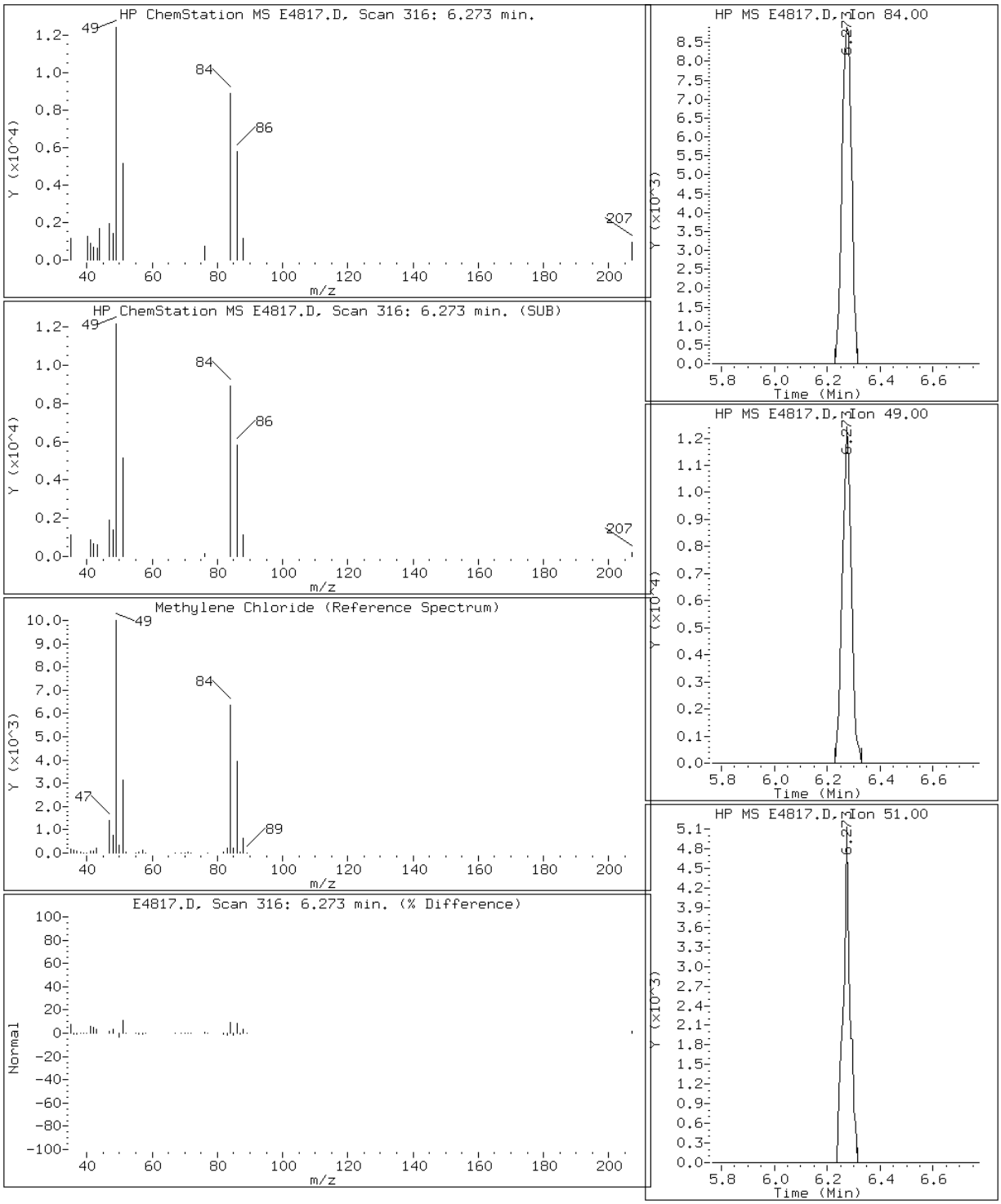
Data File: E4817.D

Date: 30-NOV-2011 01:33

Client ID: MW-10-111611 Instrument: E.i

Sample Info: 280-23017-b-5,,pH<2 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-21-111611 | Lab Sample ID: 280-23017-6

Matrix: Water | Lab File ID: E4818.D

Analysis Method: 8260B | Date Collected: 11/16/2011 13:20

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 01:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-21-111611 | Lab Sample ID: 280-23017-6

Matrix: Water | Lab File ID: E4818.D

Analysis Method: 8260B | Date Collected: 11/16/2011 13:20

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 01:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.55	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-21-111611 Lab Sample ID: 280-23017-6

Matrix: Water Lab File ID: E4818.D

Analysis Method: 8260B Date Collected: 11/16/2011 13:20

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 01:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-127
2037-26-5	Toluene-d8 (Surr)	104		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4818.D
Lab Smp Id: 280-23017-A-6 Client Smp ID: MW-21-111611
Inj Date : 30-NOV-2011 01:52
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-a-6,,pH<2
Misc Info : 280-23017-A-6
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.167	8.166	(1.000)	1866442	12.5000		
*	87 Chlorobenzene-d5	119	10.463	10.469	(1.000)	362847	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.422	12.421	(1.000)	459722	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.610	7.608	(0.932)	367096	11.8557	11.8556	
$	57 1,2-Dichloroethane-d4	65	7.910	7.916	(0.968)	300064	11.9095	11.9095	
$	75 Toluene-d8	98	9.340	9.346	(0.893)	1846155	13.5815	13.5815	
$	98 4-Bromofluorobenzene (Surr)	95	11.378	11.384	(0.916)	532667	13.4323	13.4323	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.265	6.272	(0.767)	20293	0.54843	0.548428(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

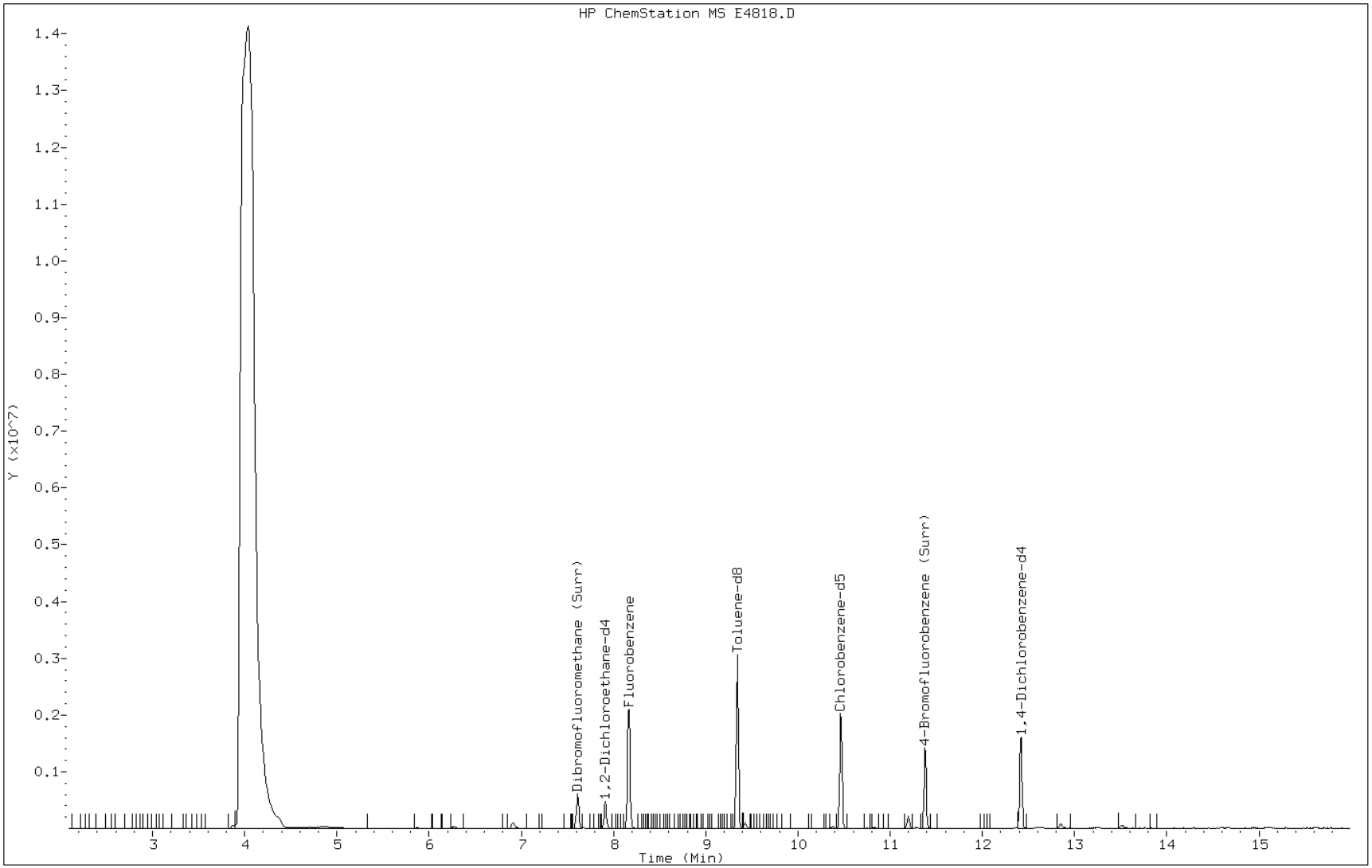
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4818.D

Date: 30-NOV-2011 01:52

Client ID: MW-21-111611 Instrument: E.i

Sample Info: 280-23017-a-6,,pH<2 Operator: TINKHAMS



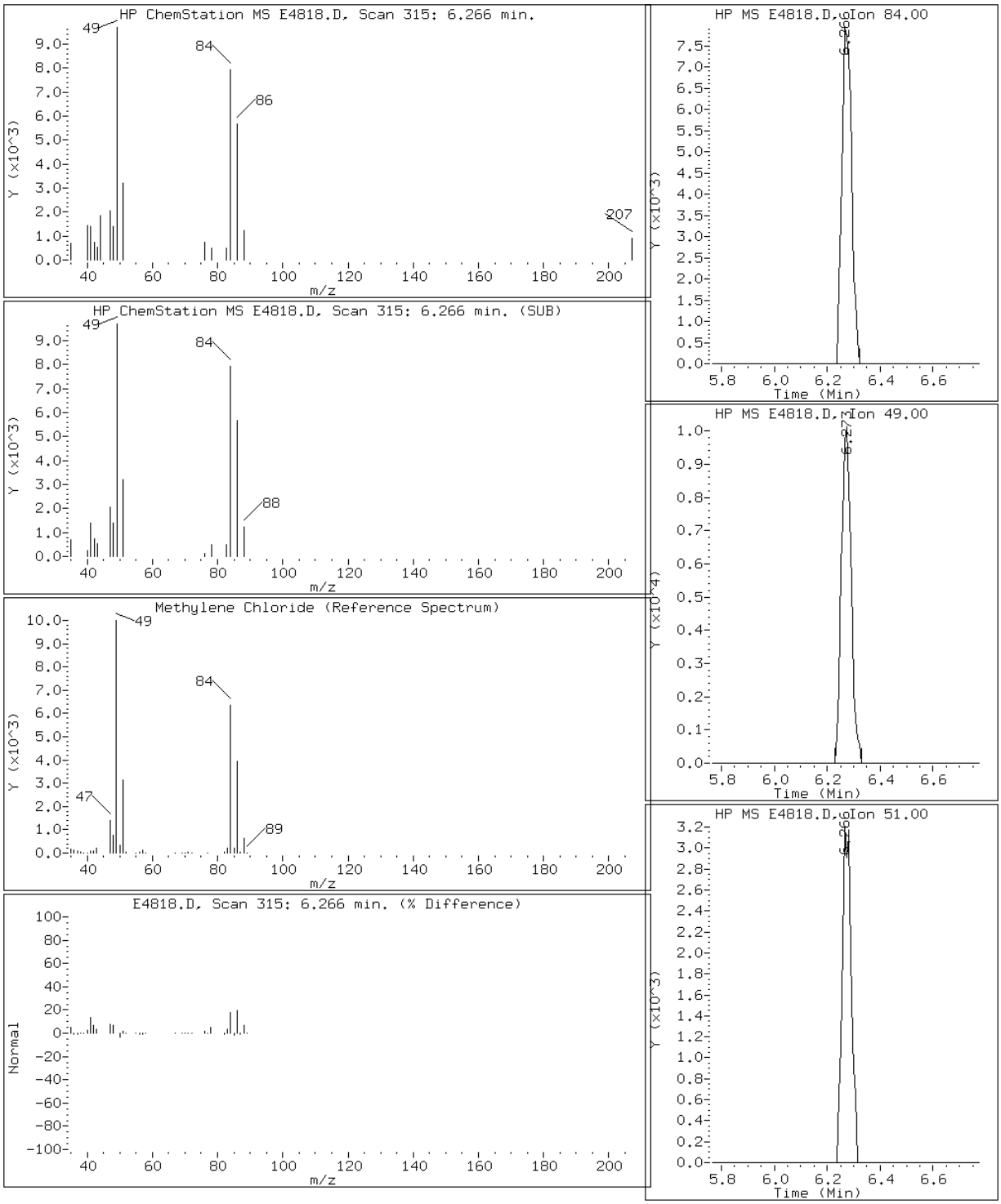
Data File: E4818.D

Date: 30-NOV-2011 01:52

Client ID: MW-21-111611 Instrument: E.i

Sample Info: 280-23017-a-6,,pH<2 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-20-111611 | Lab Sample ID: 280-23017-7

Matrix: Water | Lab File ID: E4819.D

Analysis Method: 8260B | Date Collected: 11/16/2011 13:45

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 02:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-20-111611 | Lab Sample ID: 280-23017-7

Matrix: Water | Lab File ID: E4819.D

Analysis Method: 8260B | Date Collected: 11/16/2011 13:45

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 02:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.55	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-20-111611 Lab Sample ID: 280-23017-7

Matrix: Water Lab File ID: E4819.D

Analysis Method: 8260B Date Collected: 11/16/2011 13:45

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 02:11

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		78-120
1868-53-7	Dibromofluoromethane (Surr)	85		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		70-127
2037-26-5	Toluene-d8 (Surr)	100		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4819.D
Lab Smp Id: 280-23017-A-7 Client Smp ID: MW-20-111611
Inj Date : 30-NOV-2011 02:11
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-a-7,,pH<2
Misc Info : 280-23017-A-7
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.168	8.166	(1.000)	2058644	12.5000		
*	87 Chlorobenzene-d5	119	10.463	10.469	(1.000)	400465	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.422	12.421	(1.000)	497097	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.610	7.608	(0.932)	376732	11.0309	11.0309	
$	57 1,2-Dichloroethane-d4	65	7.910	7.916	(0.968)	291739	10.4980	10.4980	
$	75 Toluene-d8	98	9.340	9.346	(0.893)	1946614	12.9754	12.9754	
$	98 4-Bromofluorobenzene (Surr)	95	11.378	11.384	(0.916)	546973	12.7560	12.7560	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.273	6.272	(0.768)	22310	0.54665	0.546646(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

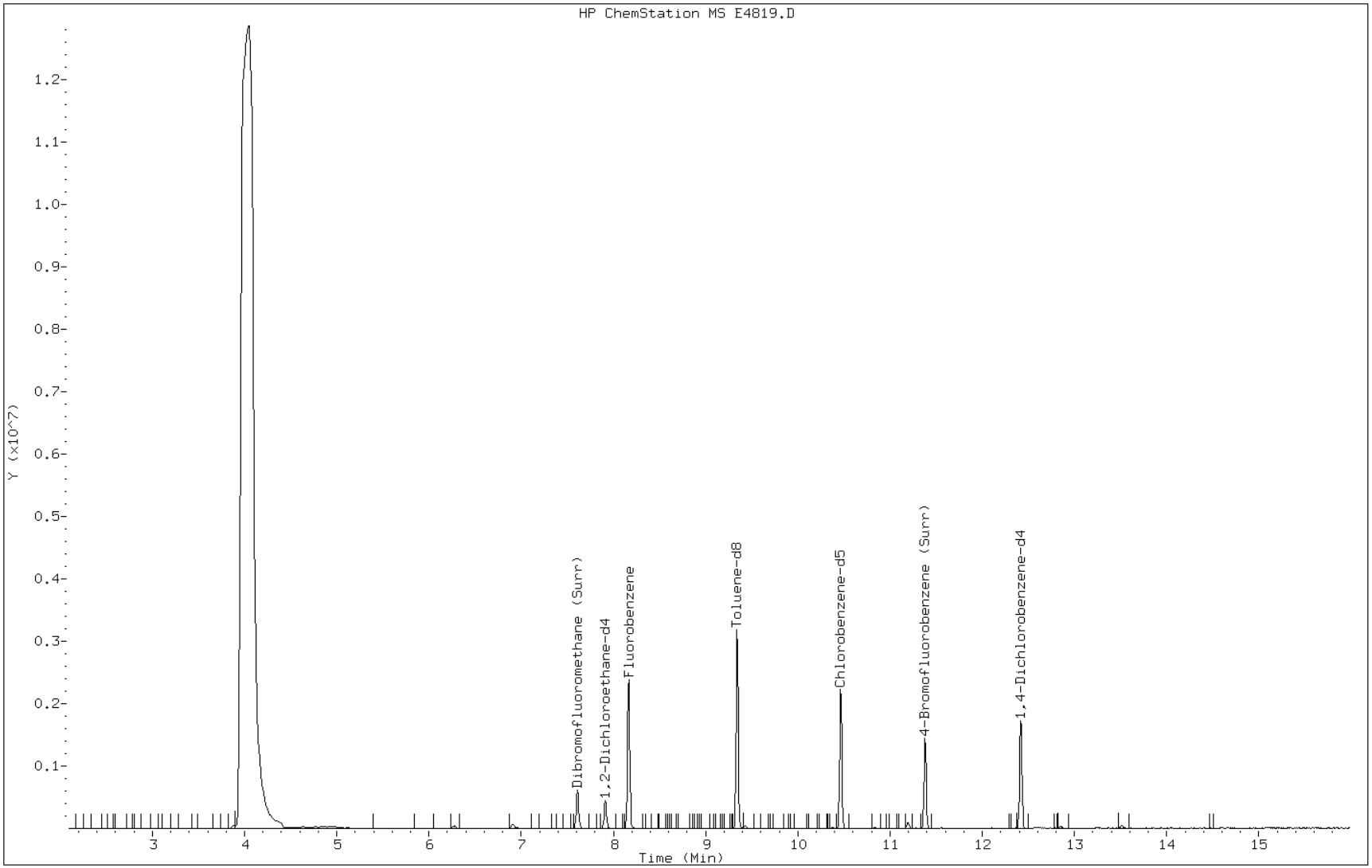
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4819.D

Date: 30-NOV-2011 02:11

Client ID: MW-20-111611 Instrument: E.i

Sample Info: 280-23017-a-7,,pH<2 Operator: TINKHAMS



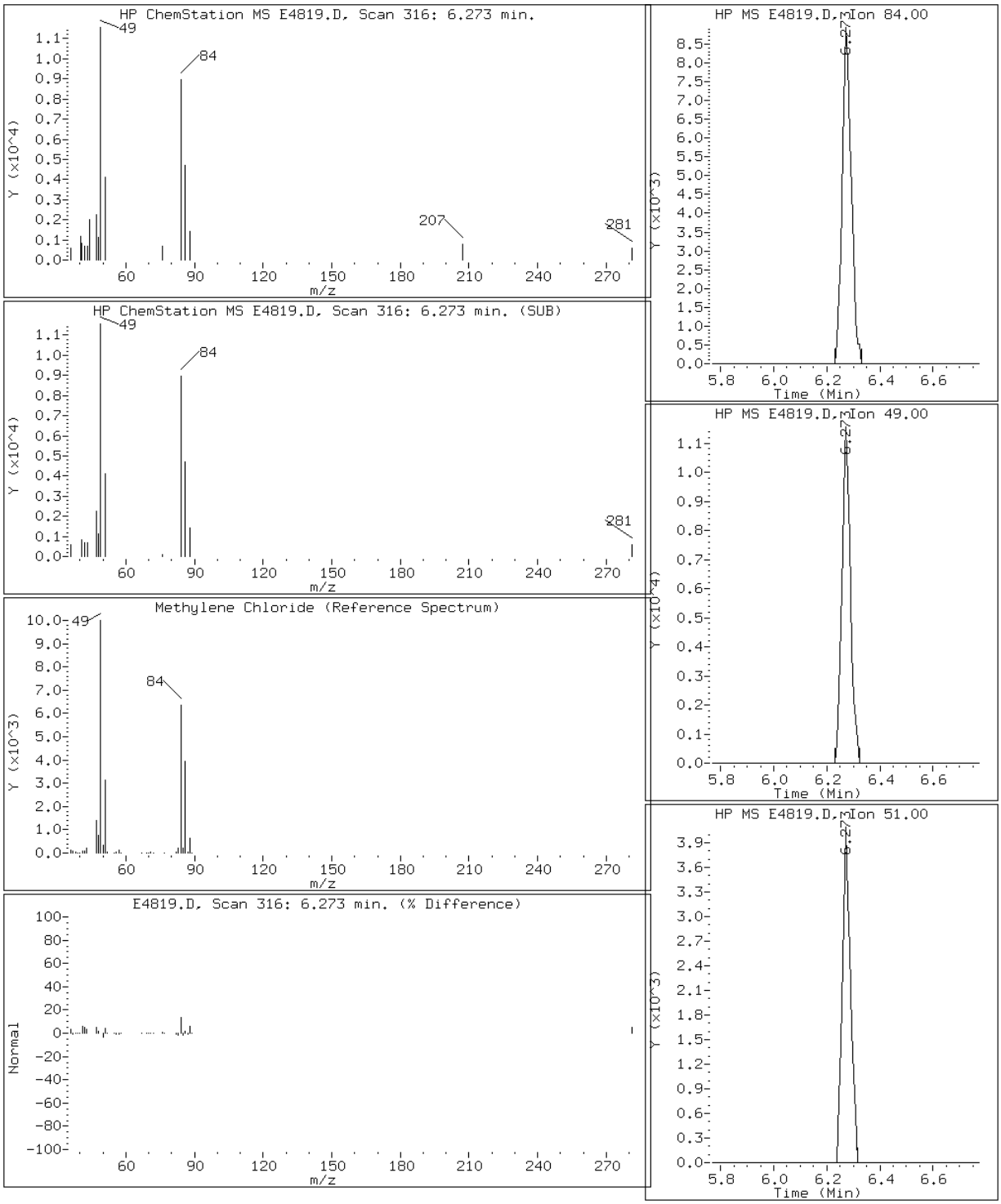
Data File: E4819.D

Date: 30-NOV-2011 02:11

Client ID: MW-20-111611 Instrument: E.i

Sample Info: 280-23017-a-7,,pH<2 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-16-111611 | Lab Sample ID: 280-23017-8

Matrix: Water | Lab File ID: E4820.D

Analysis Method: 8260B | Date Collected: 11/16/2011 14:15

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 02:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-16-111611 | Lab Sample ID: 280-23017-8

Matrix: Water | Lab File ID: E4820.D

Analysis Method: 8260B | Date Collected: 11/16/2011 14:15

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 02:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.57	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-16-111611 Lab Sample ID: 280-23017-8

Matrix: Water Lab File ID: E4820.D

Analysis Method: 8260B Date Collected: 11/16/2011 14:15

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 02:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		78-120
1868-53-7	Dibromofluoromethane (Surr)	93		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		70-127
2037-26-5	Toluene-d8 (Surr)	110		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4820.D
Lab Smp Id: 280-23017-B-8 Client Smp ID: MW-16-111611
Inj Date : 30-NOV-2011 02:30
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-b-8,,pH<2
Misc Info : 280-23017-B-8
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1923133	12.5000		
*	87 Chlorobenzene-d5	119	10.468	10.469	(1.000)	369634	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.420	12.421	(1.000)	469524	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.608	7.608	(0.932)	384233	12.0433	12.0433	
$	57 1,2-Dichloroethane-d4	65	7.916	7.916	(0.969)	297056	11.4426	11.4426	
$	75 Toluene-d8	98	9.346	9.346	(0.893)	1982323	14.3155	14.3155	
$	98 4-Bromofluorobenzene (Surr)	95	11.376	11.384	(0.916)	557000	13.7527	13.7527	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.271	6.272	(0.768)	21675	0.56851	0.568510(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

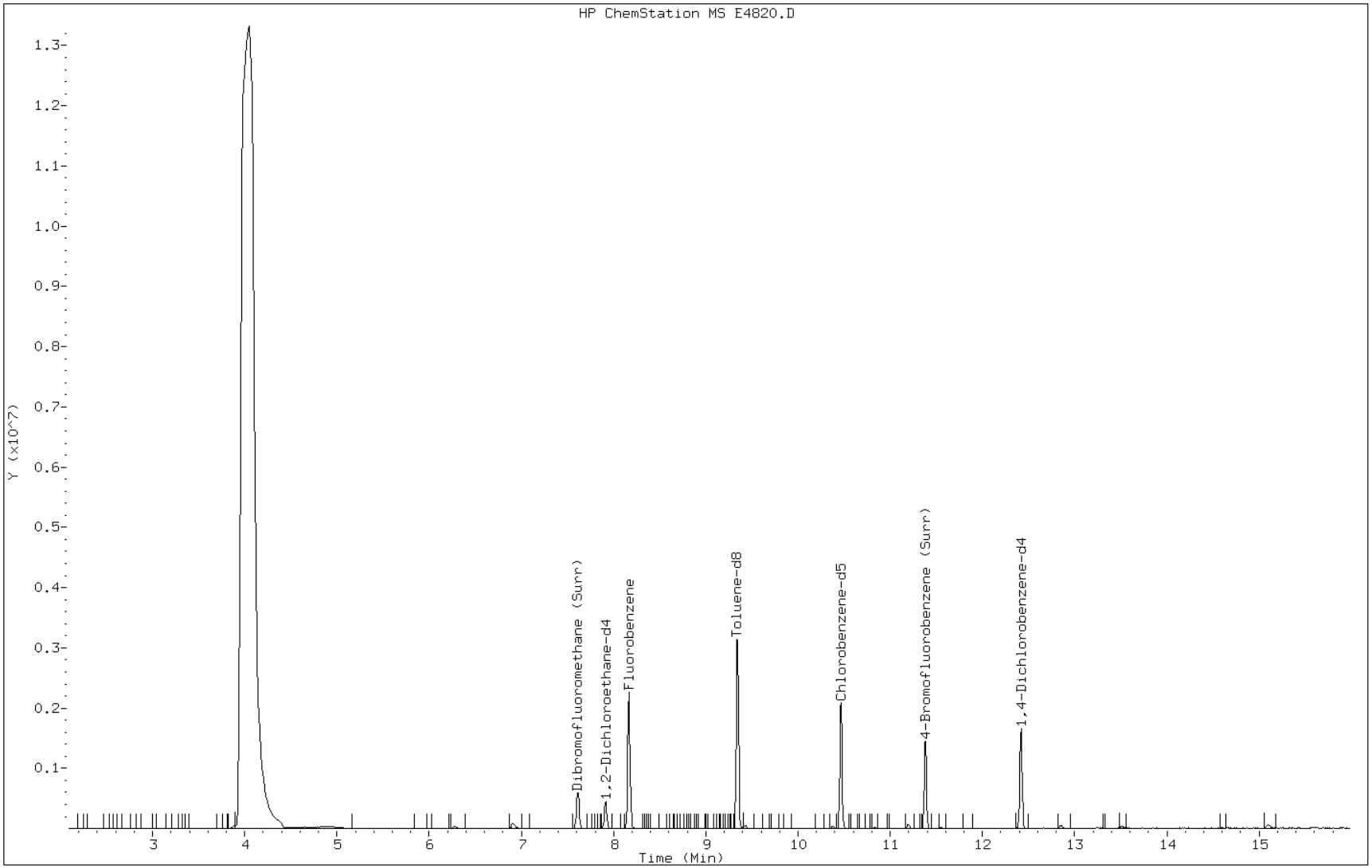
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4820.D

Date: 30-NOV-2011 02:30

Client ID: MW-16-111611 Instrument: E.i

Sample Info: 280-23017-b-8,,pH<2 Operator: TINKHAMS



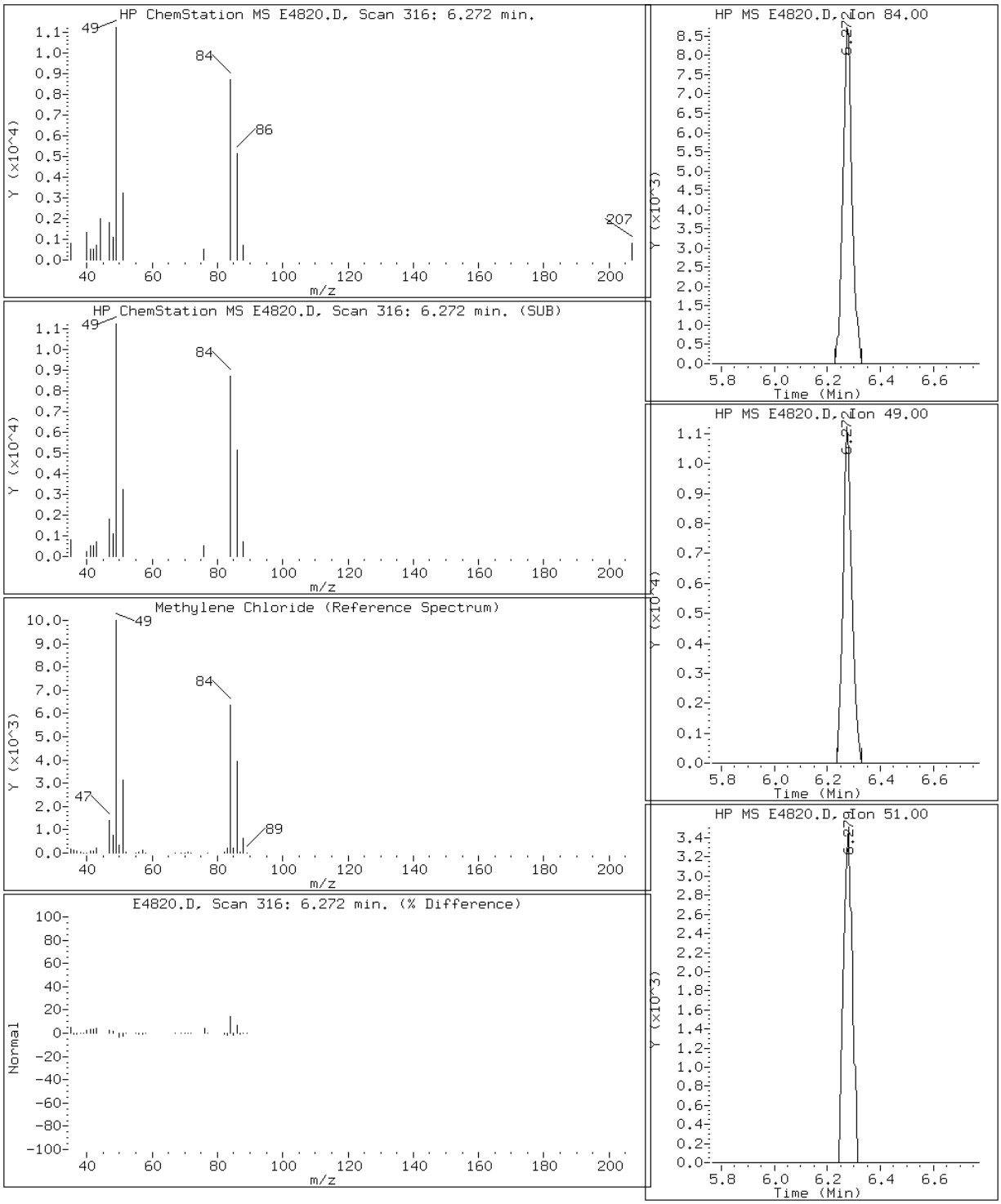
Data File: E4820.D

Date: 30-NOV-2011 02:30

Client ID: MW-16-111611 Instrument: E.i

Sample Info: 280-23017-b-8,,pH<2 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-9-111611 | Lab Sample ID: 280-23017-9

Matrix: Water | Lab File ID: E4821.D

Analysis Method: 8260B | Date Collected: 11/16/2011 15:20

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 02:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-9-111611 | Lab Sample ID: 280-23017-9

Matrix: Water | Lab File ID: E4821.D

Analysis Method: 8260B | Date Collected: 11/16/2011 15:20

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 02:49

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.52	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-9-111611 Lab Sample ID: 280-23017-9

Matrix: Water Lab File ID: E4821.D

Analysis Method: 8260B Date Collected: 11/16/2011 15:20

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 02:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
1868-53-7	Dibromofluoromethane (Surr)	89		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		70-127
2037-26-5	Toluene-d8 (Surr)	108		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4821.D
Lab Smp Id: 280-23017-B-9 Client Smp ID: MW-9-111611
Inj Date : 30-NOV-2011 02:49
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-b-9,,pH<2
Misc Info : 280-23017-B-9
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.160	8.166	(1.000)	1946579	12.5000		
*	87 Chlorobenzene-d5	119	10.463	10.469	(1.000)	366980	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.422	12.421	(1.000)	467872	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.610	7.608	(0.933)	371831	11.5142	11.5142	
$	57 1,2-Dichloroethane-d4	65	7.910	7.916	(0.969)	286327	10.8964	10.8964	
$	75 Toluene-d8	98	9.340	9.346	(0.893)	1923901	13.9941	13.9941	
$	98 4-Bromofluorobenzene (Surr)	95	11.378	11.384	(0.916)	529349	13.1161	13.1161	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.265	6.272	(0.768)	20060	0.51981	0.519813(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

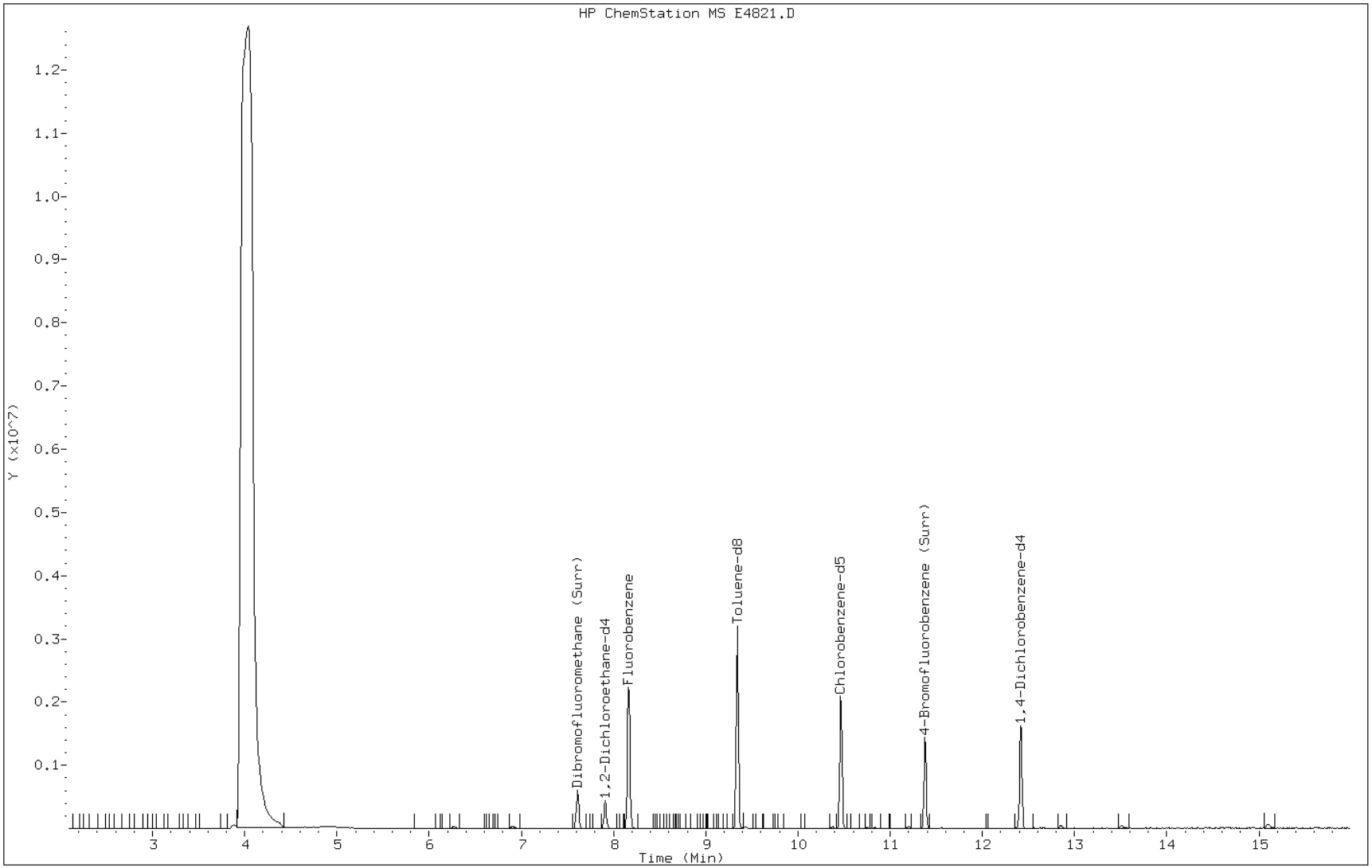
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4821.D

Date: 30-NOV-2011 02:49

Client ID: MW-9-111611 Instrument: E.i

Sample Info: 280-23017-b-9,,pH<2 Operator: TINKHAMS



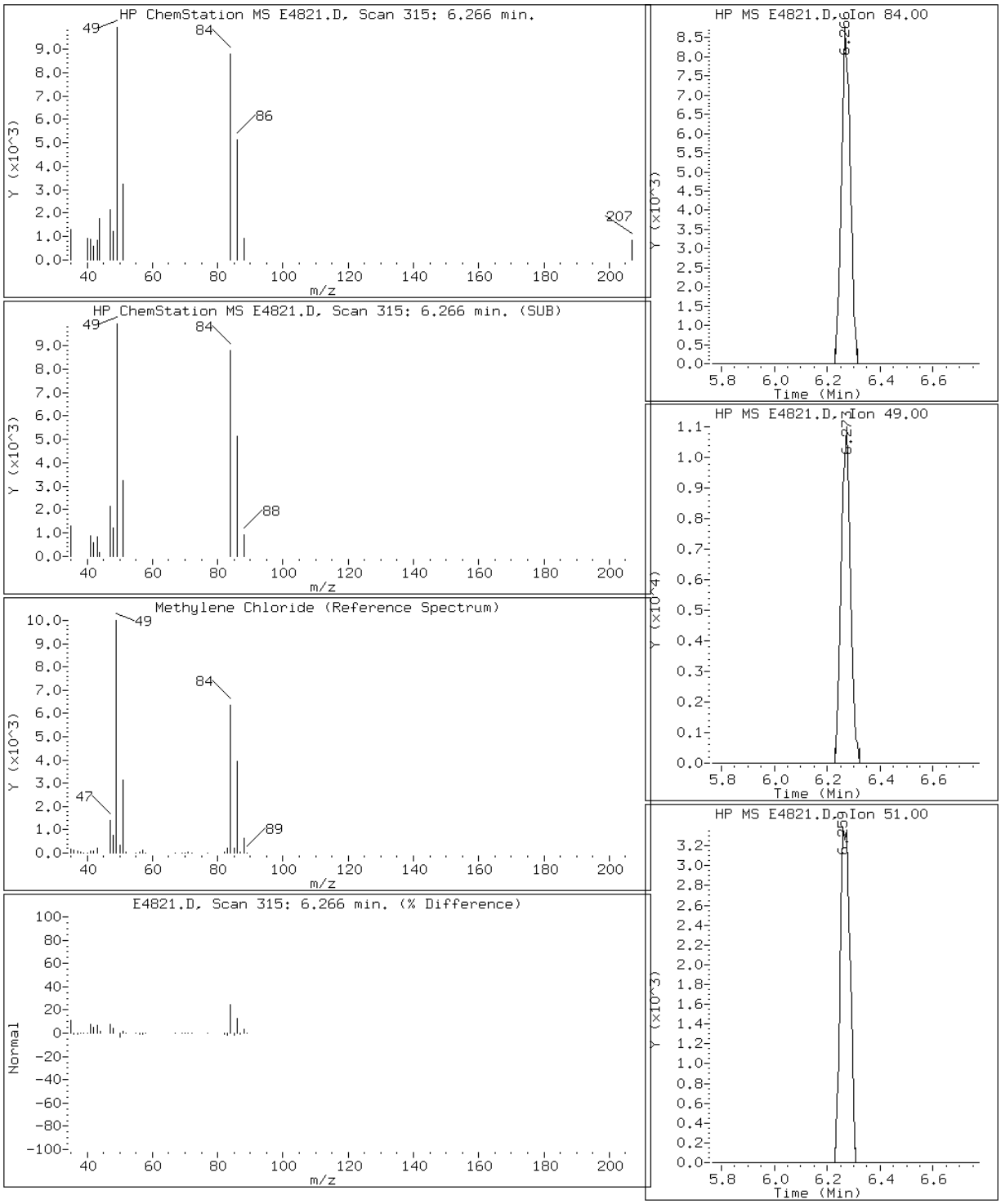
Data File: E4821.D

Date: 30-NOV-2011 02:49

Client ID: MW-9-111611 Instrument: E.i

Sample Info: 280-23017-b-9,,pH<2 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: MW-DUP-111611 | Lab Sample ID: 280-23017-10

Matrix: Water | Lab File ID: E4822.D

Analysis Method: 8260B | Date Collected: 11/16/2011 16:00

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	4.3		1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	2.1		1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

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Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.62	J *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	1.0		1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.71	J	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

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Client Sample ID: MW-DUP-111611 Lab Sample ID: 280-23017-10

Matrix: Water Lab File ID: E4822.D

Analysis Method: 8260B Date Collected: 11/16/2011 16:00

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 03:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	112		78-120
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-127
2037-26-5	Toluene-d8 (Surr)	108		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4822.D
Lab Smp Id: 280-23017-A-10 Client Smp ID: MW-DUP-111611
Inj Date : 30-NOV-2011 03:09
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-a-10,,pH<2
Misc Info : 280-23017-A-10
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1765776	12.5000		
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	338343	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	436281	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	347589	11.8656	11.8656	
$	57 1,2-Dichloroethane-d4	65	7.909	7.916	(0.968)	281935	11.8279	11.8279	
$	75 Toluene-d8	98	9.339	9.346	(0.892)	1786195	14.0921	14.0921	
$	98 4-Bromofluorobenzene (Surr)	95	11.377	11.384	(0.916)	548963	14.5870	14.5870	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	5.181	5.179	(0.634)	4759	0.16702	0.167024	(aQ)
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	Compound Not Detected.					
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	7.773	7.780	(0.952)	54662	0.62017	0.620170(aH)
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	7.995	7.995	(0.979)	693915	4.32318	4.32318
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79 1,1,2-Trichloroethane	97	Compound Not Detected.					
80 2-Hexanone	43	Compound Not Detected.					
81 1,3-Dichloropropane	76	Compound Not Detected.					
82 Tetrachloroethene	164	Compound Not Detected.					
83 Dibromochloromethane	129	Compound Not Detected.					
84 Tetrahydrothiophene	60	10.047	10.054	(0.960)	2982	0.32034	0.320335(aQ)
85 1,2-Dibromoethane	107	Compound Not Detected.					
86 1-Chlorohexane	91	Compound Not Detected.					
88 Chlorobenzene	112	Compound Not Detected.					
89 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90 Ethylbenzene	106	10.519	10.526	(1.005)	111501	2.12857	2.12857
91 m and p-Xylene	106	Compound Not Detected.					
92 o-Xylene	106	Compound Not Detected.					
93 Styrene	104	Compound Not Detected.					
94 Bromoform	173	Compound Not Detected.					
95 isopropyl benzene	105	11.212	11.213	(0.903)	89843	0.61686	0.616864(a)
96 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97 Cyclohexanone	55	Compound Not Detected.					
99 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100 t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101 1,2,3-Trichloropropane	110	Compound Not Detected.					
103 Bromobenzene	156	Compound Not Detected.					
102 n-Propylbenzene	120	11.548	11.556	(0.930)	44790	1.00112	1.00112
105 2-Chlorotoluene	126	Compound Not Detected.					
104 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106 4-Chlorotoluene	126	Compound Not Detected.					
107 tert-Butylbenzene	119	Compound Not Detected.					
108 1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	87920	0.71033	0.710334(aQ)
109 sec-Butylbenzene	134	Compound Not Detected.					
110 4-Isopropyltoluene	119	Compound Not Detected.					
111 1,3-Dichlorobenzene	146	Compound Not Detected.					
113 1,4-dichlorobenzene	146	Compound Not Detected.					
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	168304	1.46493	1.46493
115 n-Butylbenzene	91	Compound Not Detected.					
116 1,2-Dichlorobenzene	146	Compound Not Detected.					
117 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119 Hexachlorobutadiene	225	Compound Not Detected.					
120 Naphthalene	128	Compound Not Detected.					
121 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

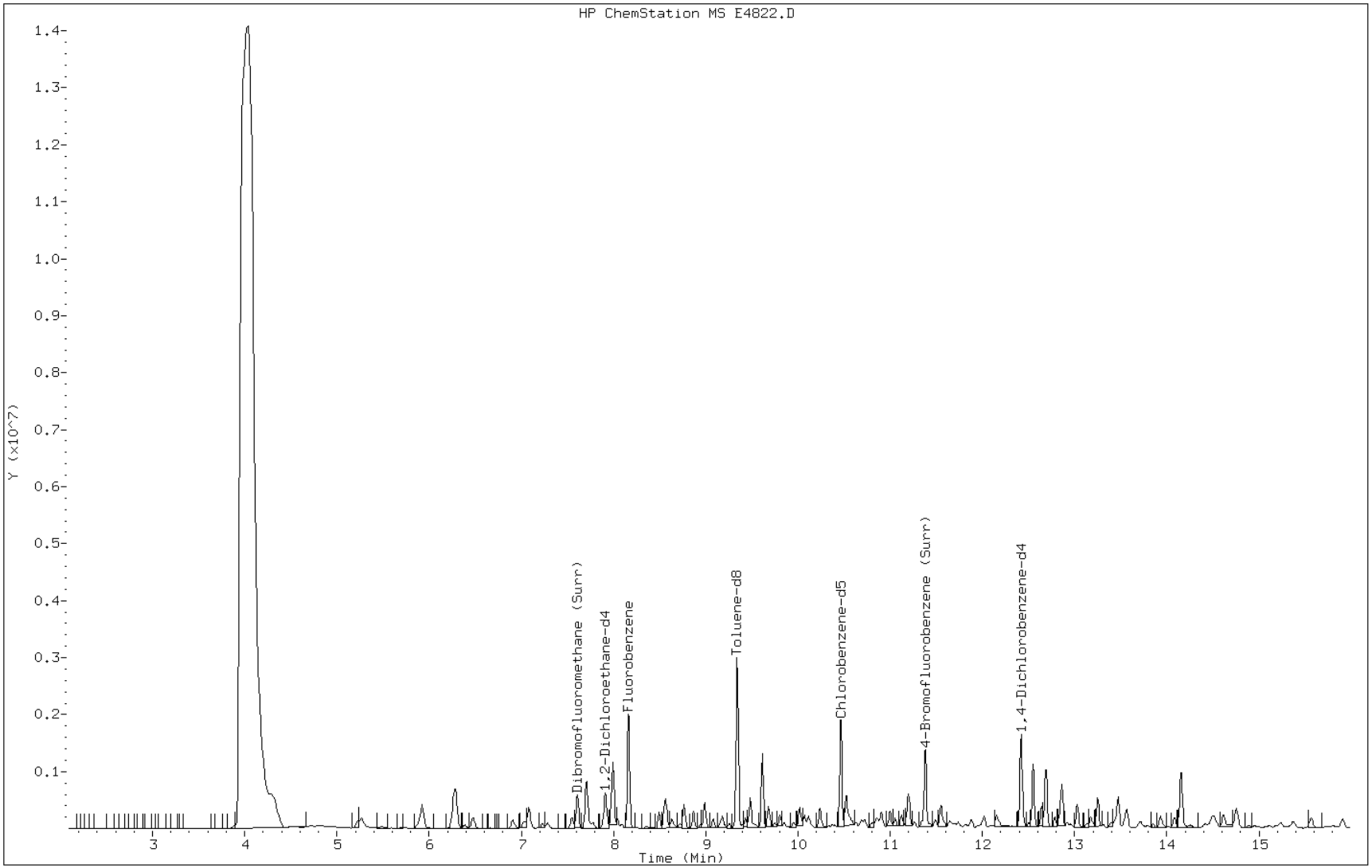
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: E4822.D

Date: 30-NOV-2011 03:09

Client ID: MW-DUP-111611 Instrument: E.i

Sample Info: 280-23017-a-10,,pH<2 Operator: TINKHAMS



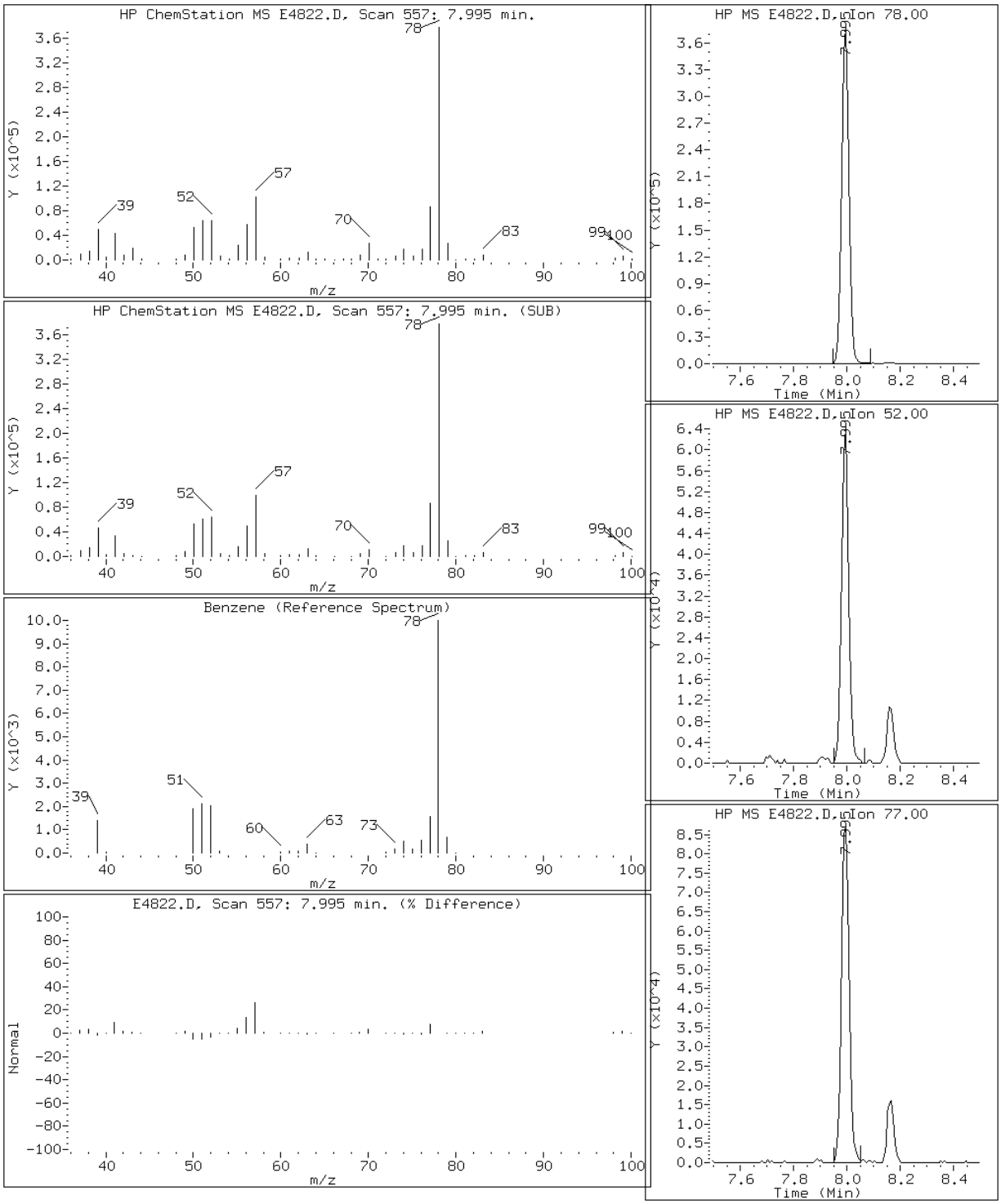
Data File: E4822.D

Date: 30-NOV-2011 03:09

Client ID: MW-DUP-111611 Instrument: E.i

Sample Info: 280-23017-a-10,,pH<2 Operator: TINKHAMS

60 Benzene



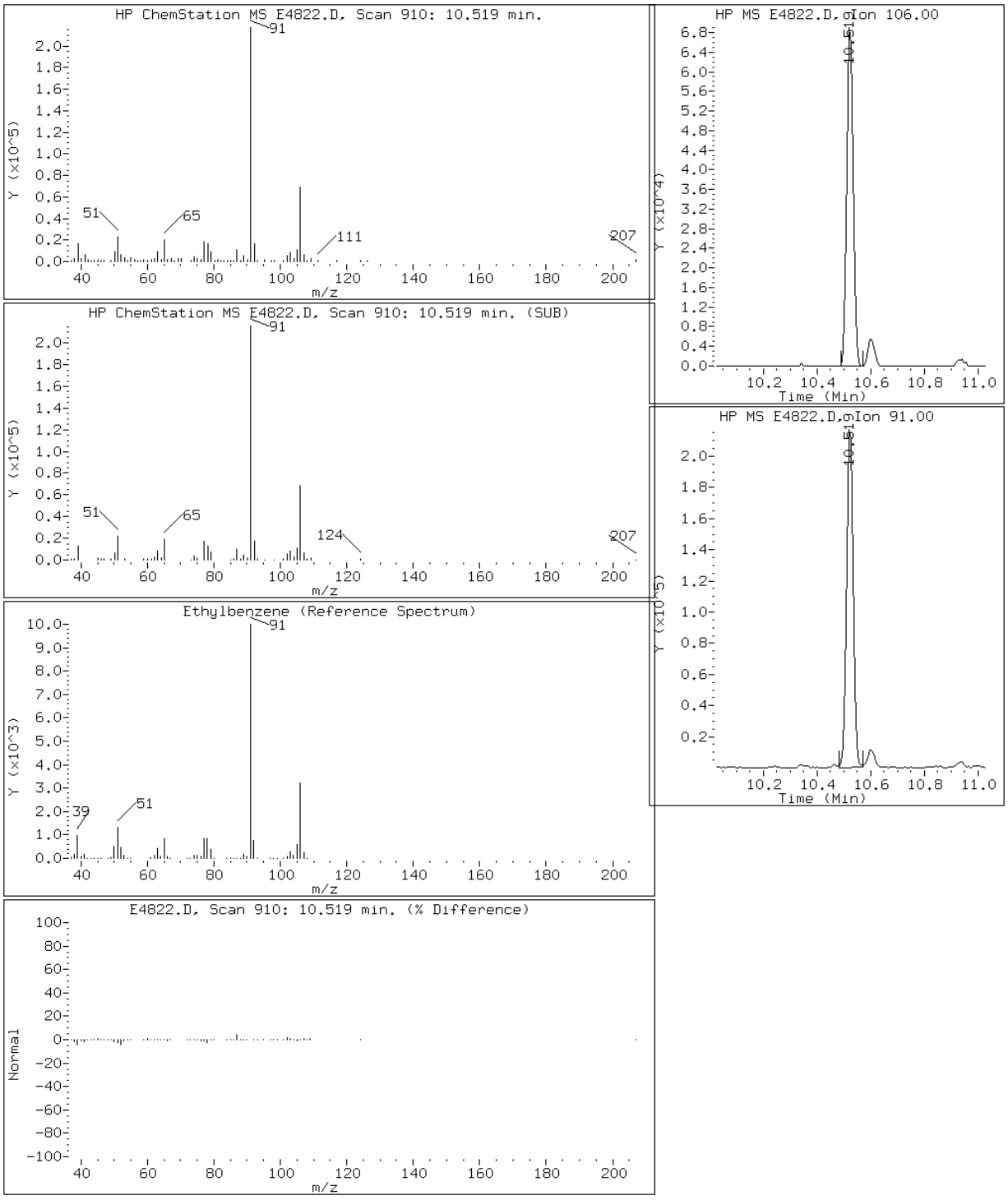
Data File: E4822.D

Date: 30-NOV-2011 03:09

Client ID: MW-DUP-111611 Instrument: E.i

Sample Info: 280-23017-a-10,,pH<2 Operator: TINKHAMS

90 Ethylbenzene



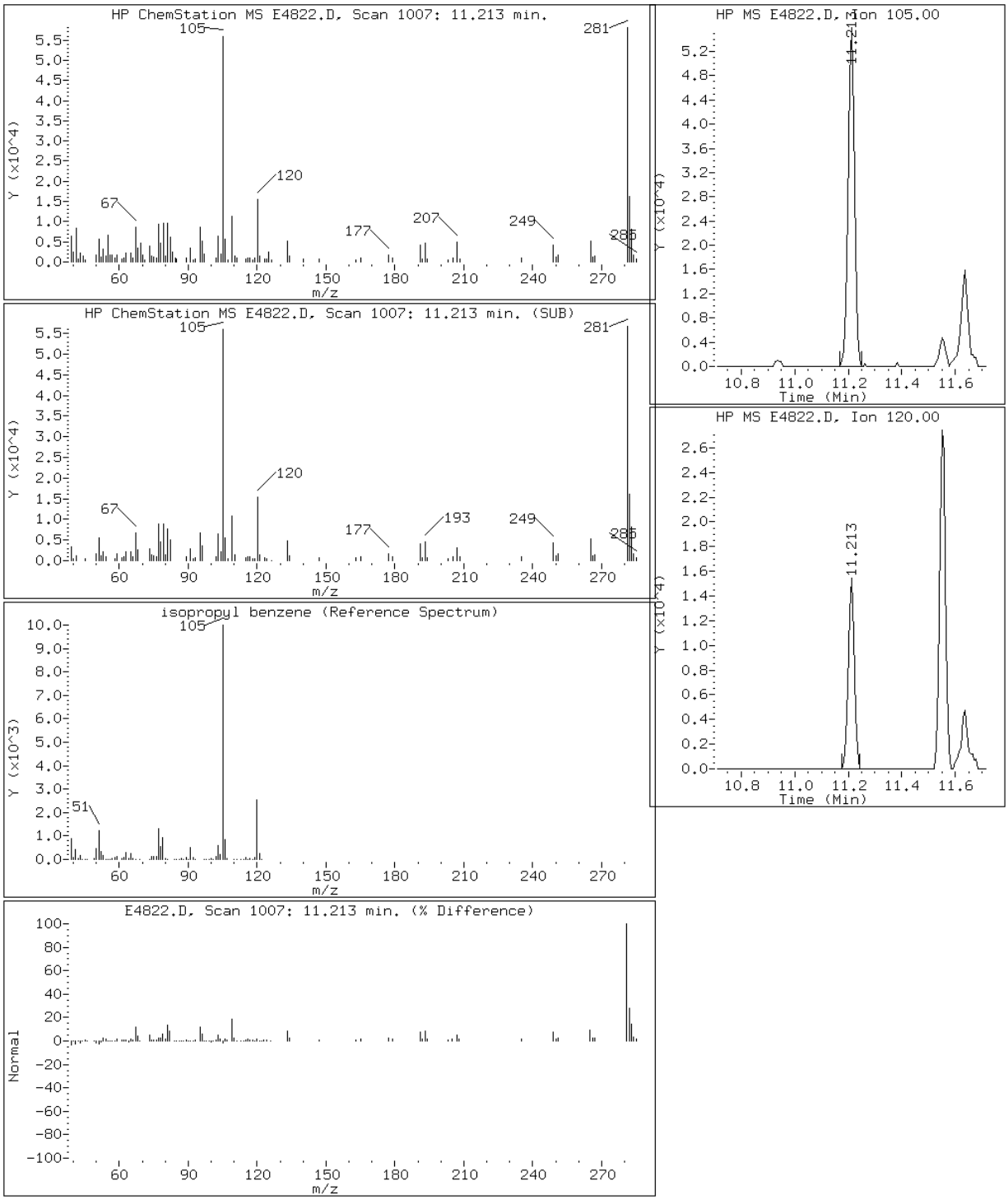
Data File: E4822.D

Date: 30-NOV-2011 03:09

Client ID: MW-DUP-111611 Instrument: E.i

Sample Info: 280-23017-a-10,,pH<2 Operator: TINKHAMS

95 isopropyl benzene



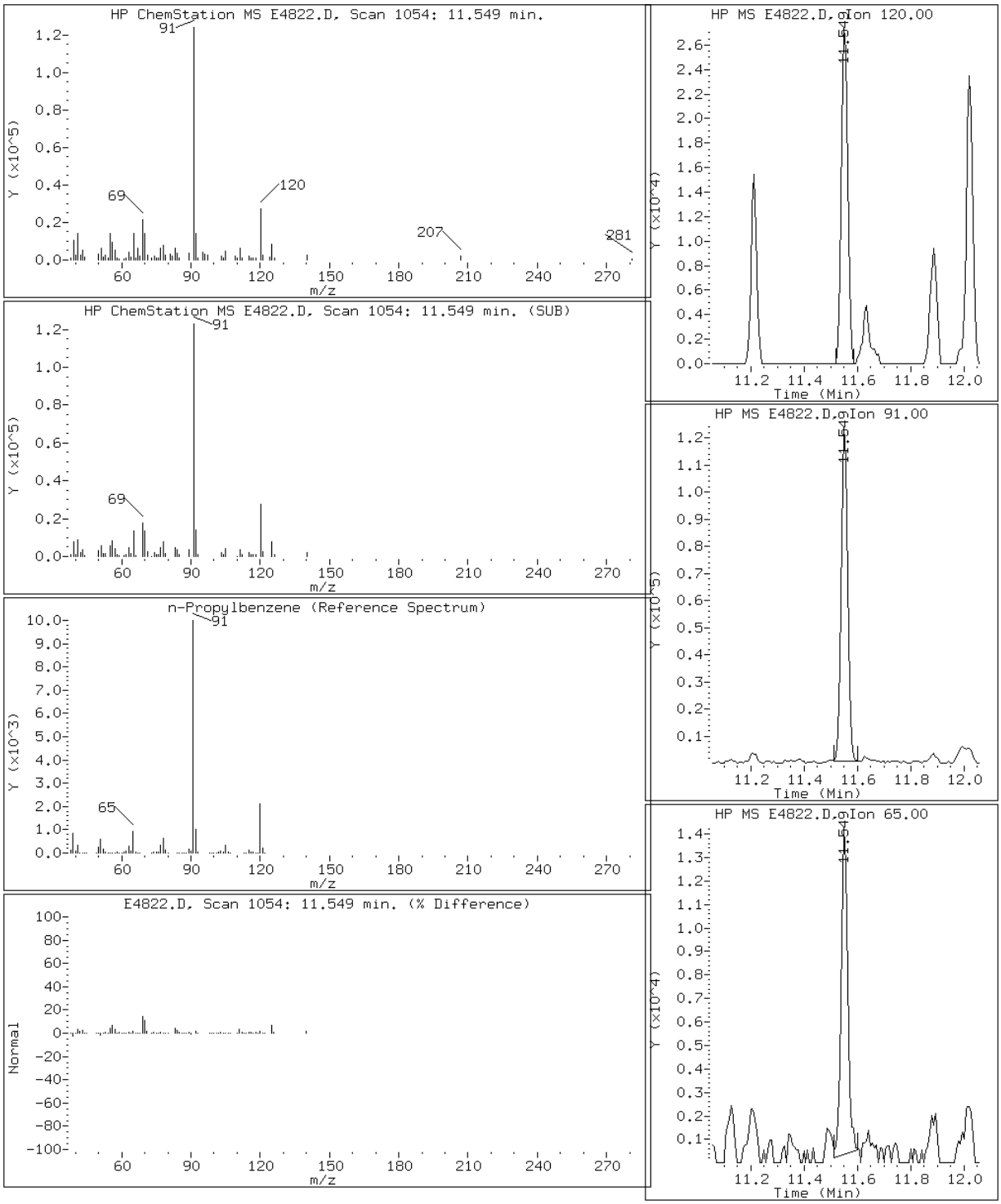
Data File: E4822.D

Date: 30-NOV-2011 03:09

Client ID: MW-DUP-111611 Instrument: E.i

Sample Info: 280-23017-a-10,,pH<2 Operator: TINKHAMS

102 n-Propylbenzene



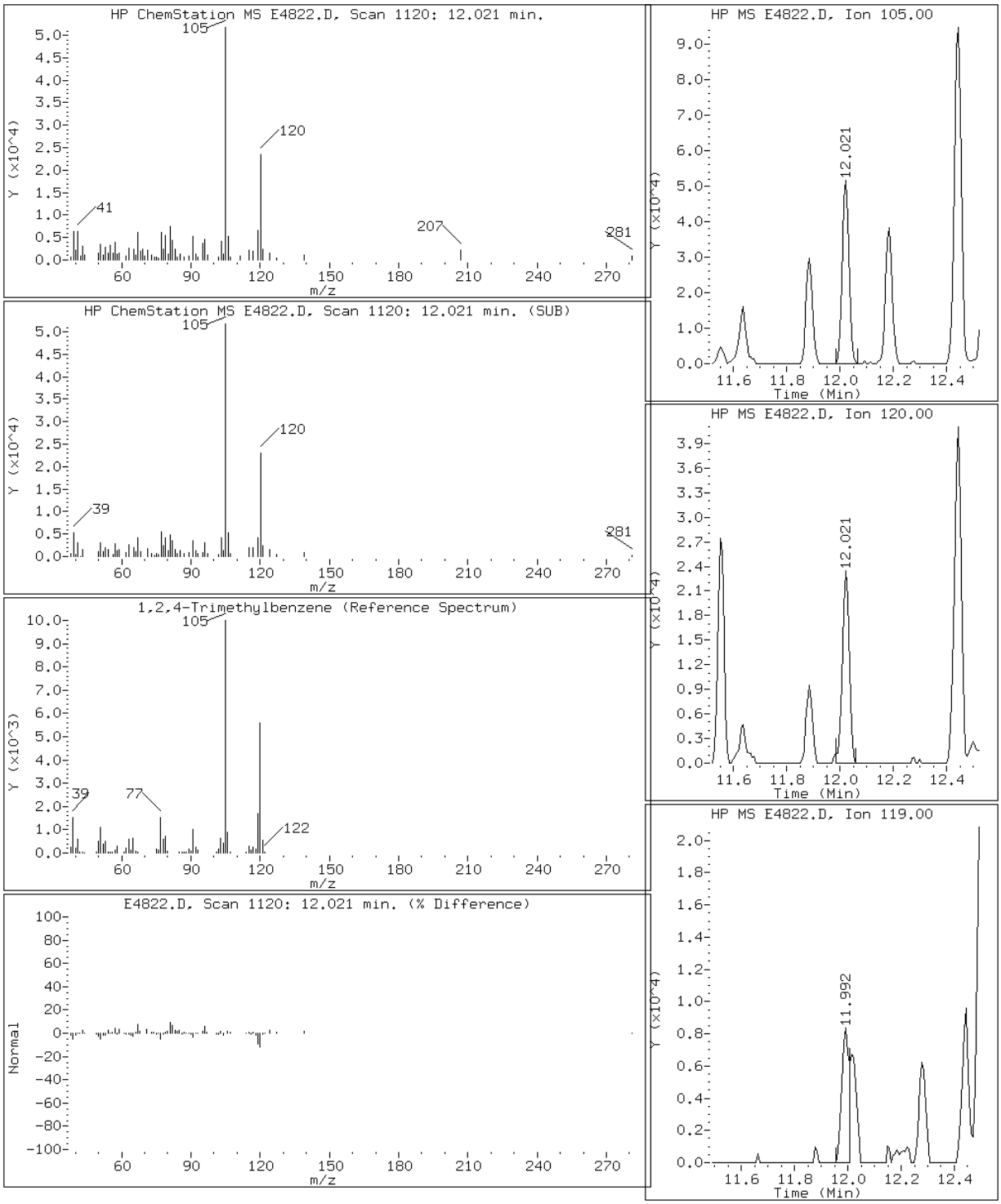
Data File: E4822.D

Date: 30-NOV-2011 03:09

Client ID: MW-DUP-111611 Instrument: E.i

Sample Info: 280-23017-a-10,,pH<2 Operator: TINKHAMS

108 1,2,4-Trimethylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 280-23017-11

Matrix: Water | Lab File ID: E4807.D

Analysis Method: 8260B | Date Collected: 11/16/2011 08:30

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 22:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 280-23017-11

Matrix: Water | Lab File ID: E4807.D

Analysis Method: 8260B | Date Collected: 11/16/2011 08:30

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 22:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.55	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 280-23017-11

Matrix: Water Lab File ID: E4807.D

Analysis Method: 8260B Date Collected: 11/16/2011 08:30

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 22:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	113		78-120
1868-53-7	Dibromofluoromethane (Surr)	88		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		70-127
2037-26-5	Toluene-d8 (Surr)	122		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4807.D
Lab Smp Id: 280-23017-A-11 Client Smp ID: TRIP BLANK
Inj Date : 29-NOV-2011 22:22
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23017-a-11,,pH<2
Misc Info : 280-23017-A-11
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1600527	12.5000		
*	87 Chlorobenzene-d5	119	10.468	10.469	(1.000)	282273	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.420	12.421	(1.000)	328845	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.608	7.608	(0.932)	303125	11.4161	11.4161	
$	57 1,2-Dichloroethane-d4	65	7.916	7.916	(0.969)	227330	10.5218	10.5218	
$	75 Toluene-d8	98	9.346	9.346	(0.893)	1681268	15.8991	15.8991	
$	98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	416072	14.6679	14.6679	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	5.878	5.863	(0.720)	17721	3.17472	3.17472(a)
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.264	6.272	(0.767)	17507	0.55174	0.551743(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79 1,1,2-Trichloroethane	97	Compound Not Detected.					
80 2-Hexanone	43	Compound Not Detected.					
81 1,3-Dichloropropane	76	Compound Not Detected.					
82 Tetrachloroethene	164	Compound Not Detected.					
83 Dibromochloromethane	129	Compound Not Detected.					
84 Tetrahydrothiophene	60	Compound Not Detected.					
85 1,2-Dibromoethane	107	Compound Not Detected.					
86 1-Chlorohexane	91	Compound Not Detected.					
88 Chlorobenzene	112	Compound Not Detected.					
89 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90 Ethylbenzene	106	Compound Not Detected.					
91 m and p-Xylene	106	Compound Not Detected.					
92 o-Xylene	106	Compound Not Detected.					
93 Styrene	104	Compound Not Detected.					
94 Bromoform	173	Compound Not Detected.					
95 isopropyl benzene	105	Compound Not Detected.					
96 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97 Cyclohexanone	55	Compound Not Detected.					
99 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100 t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101 1,2,3-Trichloropropane	110	Compound Not Detected.					
103 Bromobenzene	156	Compound Not Detected.					
102 n-Propylbenzene	120	Compound Not Detected.					
105 2-Chlorotoluene	126	Compound Not Detected.					
104 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106 4-Chlorotoluene	126	Compound Not Detected.					
107 tert-Butylbenzene	119	Compound Not Detected.					
108 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109 sec-Butylbenzene	134	Compound Not Detected.					
110 4-Isopropyltoluene	119	Compound Not Detected.					
111 1,3-Dichlorobenzene	146	Compound Not Detected.					
113 1,4-dichlorobenzene	146	Compound Not Detected.					
114 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115 n-Butylbenzene	91	Compound Not Detected.					
116 1,2-Dichlorobenzene	146	Compound Not Detected.					
117 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119 Hexachlorobutadiene	225	Compound Not Detected.					
120 Naphthalene	128	Compound Not Detected.					
121 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

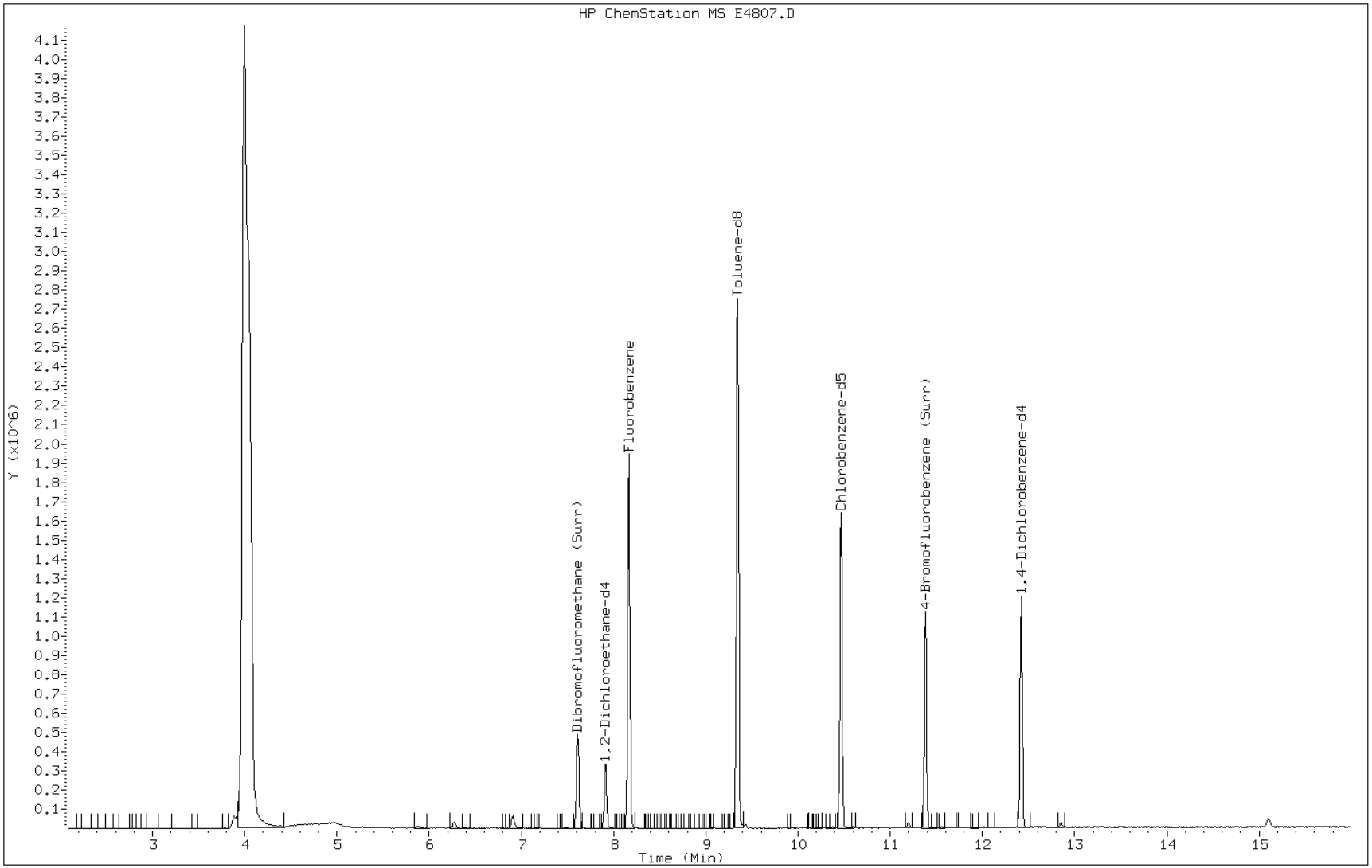
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4807.D

Date: 29-NOV-2011 22:22

Client ID: TRIP BLANK Instrument: E.i

Sample Info: 280-23017-a-11,,pH<2 Operator: TINKHAMS



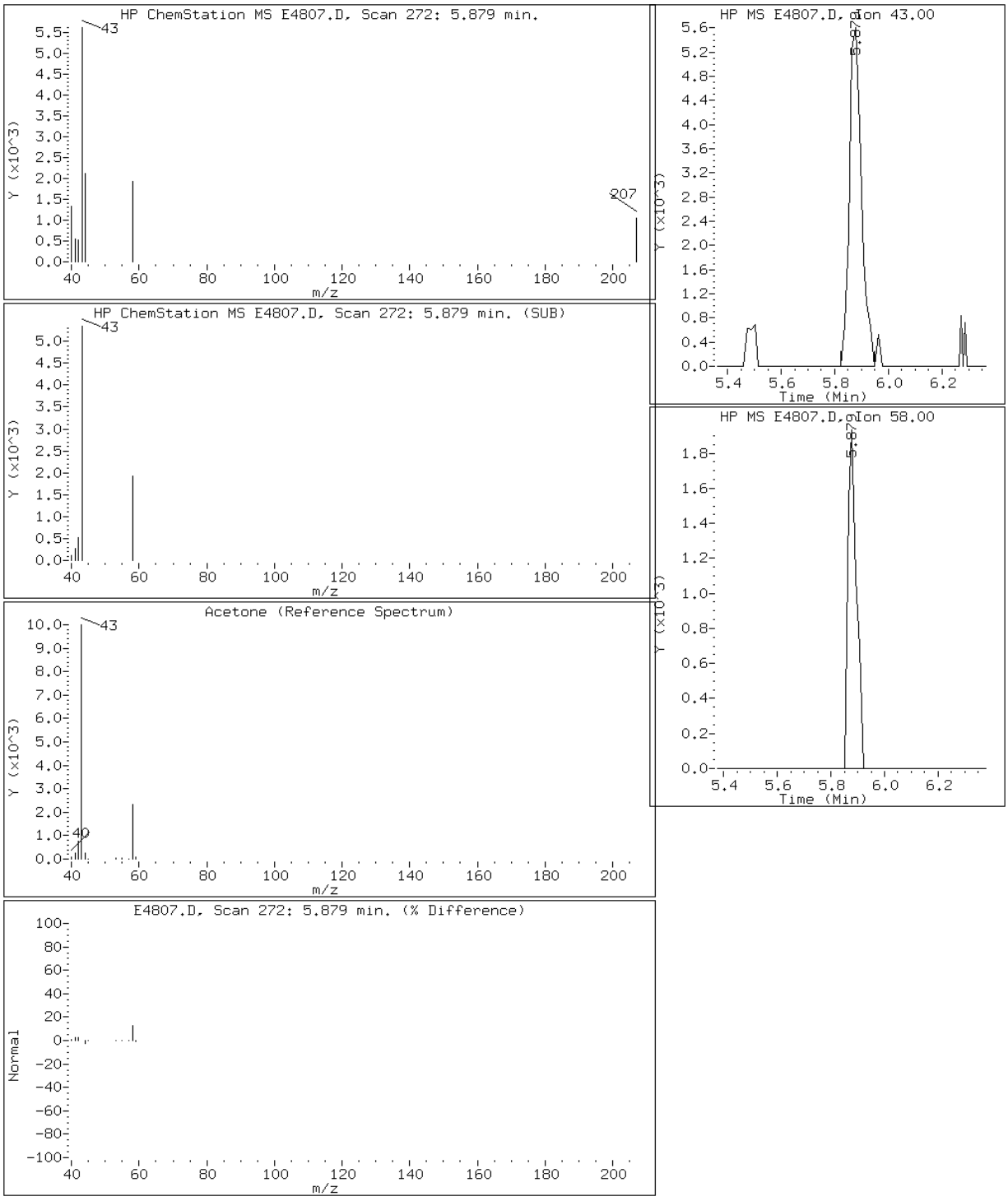
Data File: E4807.D

Date: 29-NOV-2011 22:22

Client ID: TRIP BLANK Instrument: E.i

Sample Info: 280-23017-a-11,,pH<2 Operator: TINKHAMS

22 Acetone



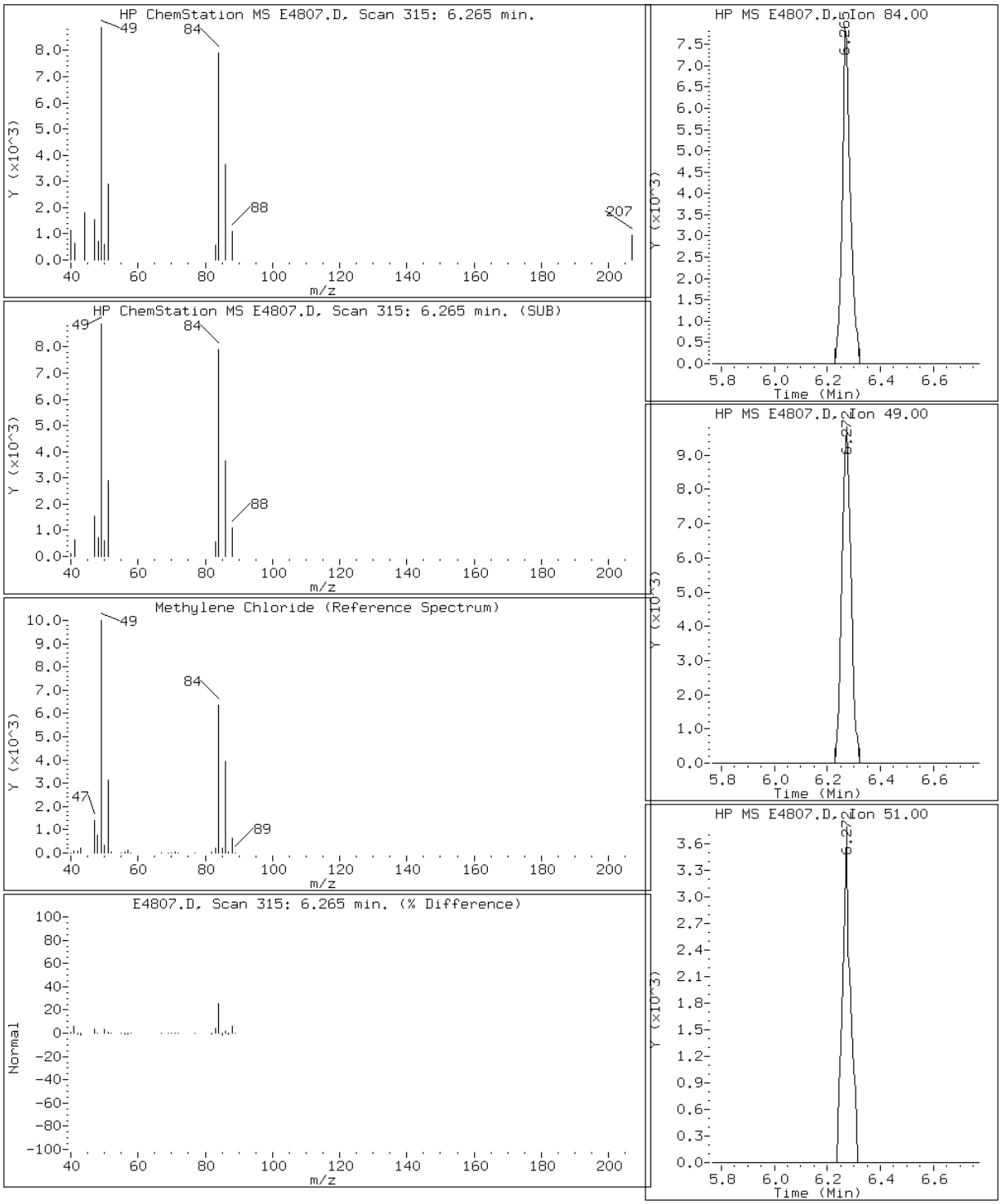
Data File: E4807.D

Date: 29-NOV-2011 22:22

Client ID: TRIP BLANK Instrument: E.i

Sample Info: 280-23017-a-11,,pH<2 Operator: TINKHAMS

31 Methylene Chloride



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-97801/2	E4602.D
Level 2	IC 280-97801/3	E4603.D
Level 3	IC 280-97801/4	E4604.D
Level 4	IC 280-97801/5	E4605.D
Level 5	IC 280-97801/6	E4606.D
Level 6	IC 280-97801/7	E4607.D
Level 7	IC 280-97801/8	E4608.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethene, Total	0.3164 0.2858	0.2982 0.2904	0.2841	0.2940	0.3059	Ave		0.2964				3.9		15.0			
Xylenes, Total	2.1548 2.2542	2.3350 2.1575	2.2785	2.3460	2.4633	Ave		2.2842				4.8		15.0			
Chlorotrifluoroethene	+++++ 0.1014	0.0597 0.1078	0.0568	0.0968	0.1050	Lin1	0.0474	0.1076							0.9983		0.9900
Ethanol	+++++ 0.0009	+++++ 0.0010	0.0008	0.0009	0.0009	Ave		0.0009				8.4		15.0			
Dichlorodifluoromethane	+++++ 0.2802	0.2154 0.2837	0.1894	0.2702	0.2970	Lin1	0.0279	0.2868							0.9986		0.9900
Chloromethane	+++++ 0.2231	0.2426 0.2258	0.2100	0.2379	0.2371	Ave		0.2294			0.1000	5.3		15.0			
Vinyl chloride	+++++ 0.2325	0.2350 0.2344	0.2231	0.2443	0.2488	Ave		0.2363				3.8		30.0			
2-Chloro-1,1,1-Trifluoroethane	+++++ 0.3017	0.3223 0.3091	0.3115	0.3205	0.3322	Ave		0.3162				3.4		15.0			
Bromomethane	+++++ 0.1800	0.1791 0.1774	0.1681	0.1857	0.1964	Ave		0.1811				5.2		15.0			
Chloroethane	+++++ 0.1978	0.2052 0.1936	0.1973	0.2059	0.2104	Ave		0.2017				3.2		15.0			
Trichlorofluoromethane	+++++ 0.3934	0.3914 0.4025	0.3675	0.4006	0.4160	Ave		0.3952				4.1		15.0			
Acrolein	+++++ 0.0135	0.0130 0.0143	0.0120	0.0129	0.0136	Ave		0.0132				6.0		15.0			
Acetone	+++++ 0.0226	0.0403 0.0228	0.0279	0.0264	0.0231	Lin2	-0.250	0.0220							0.9938		0.9900
1,1-Dichloroethene	+++++ 0.2532	0.2812 0.2951	0.2971	0.2917	0.3011	Ave		0.2866				6.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Iodomethane	+++++ 0.3461	0.3456 0.3596	0.3205	0.3477	0.3682	Ave		0.3480				4.6		15.0			
Acetonitrile	+++++ 0.0085	+++++ 0.0091	0.0081	0.0079	0.0092	Ave		0.0085				6.9		15.0			
2-Butanone (MEK)	+++++ 0.0359	0.0355 0.0366	0.0343	0.0356	0.0370	Ave		0.0358				2.7		15.0			
Tert-butyl alcohol (2-methyl-2-propanol)	+++++ 0.0073	+++++ 0.0077	0.0058	0.0068	0.0076	Ave		0.0070				11.3		15.0			
2,2-Dichloropropane	+++++ 0.3779	0.4094 0.3798	0.3822	0.3938	0.4114	Ave		0.3924				3.8		15.0			
Methylene Chloride	+++++ 0.2279	+++++ 0.2339	0.2719	0.2525	0.2529	Ave		0.2478				7.0		15.0			
Acrylonitrile	+++++ 0.0299	0.0278 0.0310	0.0271	0.0290	0.0314	Ave		0.0294				5.9		15.0			
trans-1,2-Dichloroethene	+++++ 0.2880	0.2992 0.2933	0.2845	0.2950	0.3066	Ave		0.2944				2.7		15.0			
Isopropyl ether	+++++ 0.1908	0.1890 0.1863	0.1873	0.1993	0.2093	Ave		0.1937				4.6		15.0			
1,1-Dichloroethane	+++++ 0.4709	0.4803 0.4712	0.4645	0.4856	0.5108	Ave		0.4806			0.1000	3.5		15.0			
Chloroprene	+++++ 0.5002	0.4944 0.5019	0.4970	0.5185	0.5478	Ave		0.5100				4.0		15.0			
cis-1,2-Dichloroethene	+++++ 0.2837	0.2971 0.2876	0.2837	0.2930	0.3052	Ave		0.2917				2.9		15.0			
Propionitrile	+++++ 0.0107	0.0098 0.0112	0.0099	0.0103	0.0112	Ave		0.0105				5.7		15.0			
Methacrylonitrile	+++++ 0.0545	0.0521 0.0552	0.0521	0.0538	0.0576	Ave		0.0542				3.8		15.0			
1,4-Dioxane	+++++ 0.0009	+++++ 0.0009	0.0007	0.0007	0.0008	Ave		0.0008				11.8		15.0			
Bromochloromethane	+++++ 0.0893	0.0876 0.0944	0.0894	0.0891	0.0943	Ave		0.0907				3.2		15.0			
Chloroform	0.4106 0.4163	0.4117 0.4183	0.4046	0.4291	0.4476	Ave		0.4197				3.4		30.0			
Isobutyl alcohol	+++++ 0.0025	+++++ 0.0026	0.0027	0.0025	0.0028	Ave		0.0026				4.9		15.0			
1,1,1-Trichloroethane	+++++ 0.4002	0.4159 0.4119	0.3888	0.4135	0.4279	Ave		0.4097				3.3		15.0			
1,1-Dichloropropene	+++++ 0.4188	0.4341 0.4181	0.4258	0.4330	0.4522	Ave		0.4303				2.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	+++++ 0.3506	0.3374 0.3616	0.3268	0.3490	0.3686	Ave		0.3490				4.4		15.0			
1,2-Dichloroethane	0.3875 0.2024	0.2292 0.2091	0.2121	0.2095	0.2187	Lin1	-0.017	0.2063							0.9992		0.9900
Benzene	1.0765 1.1063	1.1688 1.0858	1.1261	1.1675	1.2229	Ave		1.1363				4.6		15.0			
n-Butanol	+++++ 0.0035	+++++ 0.0038	0.0045	0.0038	0.0038	Ave		0.0039				9.2		15.0			
Trichloroethene	+++++ 0.2838	0.2842 0.2913	0.2800	0.2928	0.3048	Ave		0.2895				3.1		15.0			
1,2-Dichloropropane	+++++ 0.2383	0.2415 0.2454	0.2342	0.2384	0.2559	Ave		0.2423				3.2		30.0			
Dibromomethane	+++++ 0.0806	0.0782 0.0844	0.0752	0.0799	0.0862	Ave		0.0807				5.0		15.0			
Bromodichloromethane	0.2031 0.2574	0.2365 0.2673	0.2452	0.2528	0.2697	Ave		0.2474				9.2		15.0			
cis-1,3-Dichloropropene	0.2817 0.3323	0.3121 0.3406	0.3092	0.3227	0.3467	Ave		0.3208				6.9		15.0			
4-Methyl-2-pentanone	+++++ 0.0830	0.0762 0.0838	0.0812	0.0806	0.0865	Ave		0.0819				4.2		15.0			
Toluene	+++++ 1.1752	1.3162 1.1338	1.2464	1.2662	1.3121	Ave		1.2417				5.9		30.0			
trans-1,3-Dichloropropene	+++++ 0.2429	0.2209 0.2526	0.2158	0.2333	0.2508	Ave		0.2360				6.5		15.0			
Bromoform	+++++ 0.2691	0.1987 0.2806	0.2185	0.2402	0.2653	Ave		0.2454			0.1000	13.0		15.0			
1,1,2-Trichloroethane	+++++ 0.1191	0.1146 0.1243	0.1119	0.1153	0.1262	Ave		0.1185				4.8		15.0			
2-Hexanone	+++++ 0.2444	0.2427 0.2425	0.2246	0.2447	0.2537	Ave		0.2421				3.9		15.0			
1,3-Dichloropropane	0.9962 0.9924	0.9473 0.9832	0.9507	1.0019	1.0606	Ave		0.9903				3.8		15.0			
Tetrachloroethene	+++++ 1.0111	1.0023 1.0234	0.9661	1.0099	1.0648	Ave		1.0129				3.2		15.0			
1,2,3-Trichloropropane	+++++ 0.1039	0.0738 0.1064	0.0930	0.1042	0.1140	Ave		0.0992				14.2		15.0			
Dibromochloromethane	0.4190 0.6186	0.4887 0.6303	0.5159	0.5780	0.6305	Lin1	0.0126	0.6274							0.9994		0.9900
1,2-Dibromoethane (EDB)	+++++ 0.4751	0.4600 0.4800	0.4449	0.4664	0.4849	Ave		0.4685				3.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Chlorohexane	+++++ 1.9391	1.9806 1.9054	1.9136	2.0011	2.0968	Ave		1.9728				3.6		15.0			
Chlorobenzene	2.7898 2.9792	3.0357 2.9318	2.8834	3.0810	3.2375	Ave		2.9912			0.3000	4.9		15.0			
Ethylbenzene	+++++ 1.9066	1.9235 1.8903	1.8740	1.9488	2.0685	Ave		1.9353				3.6		30.0			
1,1,1,2-Tetrachloroethane	0.7785 0.9125	0.8392 0.9203	0.8395	0.8864	0.9428	Ave		0.8742				6.6		15.0			
m-Xylene & p-Xylene	+++++ 2.3089	2.3621 2.1846	2.3511	2.4202	2.5307	Ave		2.3596				4.9		15.0			
o-Xylene	+++++ 2.1448	2.2809 2.1034	2.1333	2.1975	2.3286	Ave		2.1981				4.1		15.0			
Styrene	+++++ 3.2818	3.1145 3.1991	3.1741	3.2961	3.5311	Ave		3.2661				4.5		15.0			
Isopropylbenzene	+++++ 4.0316	4.3009 3.7585	4.1627	4.3624	4.4213	Ave		4.1729				5.9		15.0			
Cyclohexanone	+++++ 0.0123	+++++ 0.0121	0.0115	0.0112	0.0120	Ave		0.0118				4.0		15.0			
1,1,2,2-Tetrachloroethane	0.3146 0.3835	0.3606 0.3847	0.3570	0.3673	0.3903	Ave		0.3654			0.3000	7.1		15.0			
n-Propylbenzene	+++++ 1.2616	1.2706 1.2630	1.2337	1.3169	1.3454	Ave		1.2819				3.2		15.0			
Bromobenzene	+++++ 0.7479	0.7351 0.7700	0.7068	0.7509	0.7858	Ave		0.7494				3.7		15.0			
1,3,5-Trimethylbenzene	+++++ 3.5437	3.5916 3.3677	3.5479	3.7728	3.8521	Ave		3.6127				4.8		15.0			
2-Chlorotoluene	+++++ 0.9574	0.9260 0.9563	0.9418	0.9732	1.0038	Ave		0.9597				2.8		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0547	+++++ 0.0592	0.0446	0.0508	0.0526	Ave		0.0524				10.3		15.0			
4-Chlorotoluene	+++++ 0.9450	0.9498 0.9542	0.9075	0.9574	1.0020	Ave		0.9527				3.2		15.0			
tert-Butylbenzene	+++++ 3.6436	3.7885 3.5326	3.6694	3.7791	3.9146	Ave		3.7213				3.6		15.0			
1,2,4-Trimethylbenzene	+++++ 3.4652	3.5838 3.3333	3.4707	3.6682	3.7562	Ave		3.5462				4.3		15.0			
sec-Butylbenzene	+++++ 1.0141	1.0045 1.0202	0.9814	1.0415	1.0794	Ave		1.0235				3.3		15.0			
4-Isopropyltoluene	+++++ 3.9744	4.1010 3.8005	4.0394	4.2186	4.3651	Ave		4.0832				4.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	+++++ 1.5986	1.6051 1.6332	1.5483	1.6223	1.7098	Ave		1.6195				3.3		15.0			
1,4-Dichlorobenzene	1.4602 1.5259	1.6238 1.5730	1.5458	1.5785	1.6148	Ave		1.5603				3.6		15.0			
n-Butylbenzene	+++++ 3.9106	4.2008 3.7331	4.0456	4.2075	4.3242	Ave		4.0703				5.4		15.0			
1,2-Dichlorobenzene	+++++ 1.2700	1.2762 1.3091	1.2845	1.2966	1.3676	Ave		1.3007				2.7		15.0			
1,2,4-Trichlorobenzene	+++++ 0.8612	0.8616 0.9314	0.8338	0.8741	0.9099	Ave		0.8787				4.1		15.0			
Hexachlorobutadiene	0.5140 0.6156	0.6327 0.6731	0.6169	0.6239	0.6698	Ave		0.6209				8.5		15.0			
Naphthalene	+++++ 1.2030	1.1761 1.2997	1.1389	1.1882	1.2793	Ave		1.2142				5.1		15.0			
1,2,3-Trichlorobenzene	+++++ 0.6630	0.6717 0.7254	0.6606	0.6648	0.7104	Ave		0.6827				4.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-97801/2	E4602.D
Level 2	IC 280-97801/3	E4603.D
Level 3	IC 280-97801/4	E4604.D
Level 4	IC 280-97801/5	E4605.D
Level 5	IC 280-97801/6	E4606.D
Level 6	IC 280-97801/7	E4607.D
Level 7	IC 280-97801/8	E4608.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethene, Total	FB	Ave	26878 2294434	76371 4585299	148975	381368	797524	0.600 60.0	2.00 120	4.00	10.0	20.0
Xylenes, Total	CBZ	Ave	61693 6209523	203904 12190245	407165	1040290	2210840	0.900 90.0	3.00 180	6.00	15.0	30.0
Chlorotrifluoroethene	FB	Lin1	+++++ 406891	7645 851101	14892	62770	136919	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Ethanol	FB	Ave	+++++ 188242	+++++ 398151	10480	28787	58503	+++++ 1500	+++++ 3000	100	250	500
Dichlorodifluoromethane	FB	Lin1	+++++ 1124714	27587 2239429	49654	175246	387193	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloromethane	FB	Ave	+++++ 895424	31074 1782614	55066	154292	309123	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	+++++ 932969	30099 1850322	58498	158409	324295	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Chloro-1,1,1-Trifluoroethane	FB	Ave	+++++ 1211051	41274 2440239	81667	207826	433004	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromomethane	FB	Ave	+++++ 722309	22935 1400029	44075	120444	256037	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloroethane	FB	Ave	+++++ 793922	26276 1528272	51739	133519	274273	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	+++++ 1578970	50131 3177313	96345	259809	542322	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acrolein	FB	Ave	+++++ 543531	16630 1129603	31368	83934	176673	+++++ 300	10.0 600	20.0	50.0	100
Acetone	FB	Lin2	+++++ 362730	20644 718529	29257	68545	120620	+++++ 120	4.00 240	8.00	20.0	40.0
1,1-Dichloroethene	FB	Ave	+++++ 1016344	36014 2329670	77897	189164	392444	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Iodomethane	FB	Ave	+++++ 1389044	44264 2838356	84043	225499	479932	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	+++++ 340064	+++++ 714731	21226	51071	120469	+++++ 300	+++++ 600	20.0	50.0	100
2-Butanone (MEK)	FB	Ave	+++++ 575826	18182 1155091	35941	92234	192879	+++++ 120	4.00 240	8.00	20.0	40.0
Tert-butyl alcohol (2-methyl-2-propanol)	FB	Ave	+++++ 582535	+++++ 1214786	30245	87706	199241	+++++ 600	+++++ 1200	40.0	100	200
2,2-Dichloropropane	FB	Ave	+++++ 1516724	52428 2997624	100204	255386	536229	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methylene Chloride	FB	Ave	+++++ 914686	+++++ 1846562	71277	163761	329611	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
Acrylonitrile	FB	Ave	+++++ 1200237	35569 2444949	71056	188284	409592	+++++ 300	10.0 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	+++++ 1155803	38320 2315057	74582	191345	399640	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	+++++ 3828984	121019 7351582	245533	646390	1364329	+++++ 150	5.00 300	10.0	25.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1889820	61510 3719714	121796	314938	665803	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloroprene	FB	Ave	+++++ 2007470	63318 3961627	130302	336285	714029	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 1138631	38051 2270242	74393	190023	397884	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Propionitrile	FB	Ave	+++++ 430619	12554 880846	25875	67066	145417	+++++ 300	10.0 600	20.0	50.0	100
Methacrylonitrile	FB	Ave	+++++ 2186315	66664 4357141	136658	348724	750688	+++++ 300	10.0 600	20.0	50.0	100
1,4-Dioxane	FB	Ave	+++++ 172800	+++++ 358256	9170	22817	54573	+++++ 1500	+++++ 3000	100	250	500
Bromochloromethane	FB	Ave	+++++ 358260	11223 745194	23449	57780	122879	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	17437 1671043	52732 3302125	106069	278272	583430	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 199641	+++++ 417512	14224	32934	73228	+++++ 600	+++++ 1200	40.0	100	200
1,1,1-Trichloroethane	FB	Ave	+++++ 1606285	53268 3251186	101937	268184	557757	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	+++++ 1681021	55600 3300408	111629	280823	589442	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 1407352	43211 2853952	85694	226353	480532	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Lin1	16458 812365	29358 1650927	55620	135869	285102	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	45716 4440292	149691 8570528	295236	757147	1594112	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butanol	FB	Ave	+++++ 283237	+++++ 592698	23415	48952	97890	+++++ 600	+++++ 1200	40.0	100	200
Trichloroethene	FB	Ave	+++++ 1138991	36401 2299320	73416	189894	397291	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	+++++ 956294	30932 1937281	61397	154624	333568	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	+++++ 323456	10012 665922	19720	51802	112327	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	8627 1033281	30288 2110079	64276	163936	351546	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	11964 1333797	39976 2688845	81073	209290	451936	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Methyl-2-pentanone	FB	Ave	+++++ 1332376	39049 2645621	85168	209196	450824	+++++ 120	4.00 240	8.00	20.0	40.0
Toluene	FB	Ave	+++++ 4716933	168559 8949316	326785	821193	1710426	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	+++++ 975023	28295 1993957	56568	151279	326875	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromoform	CBZ	Ave	+++++ 247100	5783 528396	13017	35509	79380	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloroethane	FB	Ave	+++++ 477860	14673 980953	29338	74763	164493	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Hexanone	CBZ	Ave	+++++ 897720	28256 1826560	53510	144705	303616	+++++ 120	4.00 240	8.00	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	9507 911256	27573 1851705	56626	148090	317294	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	+++++ 928383	29175 1927517	57543	149279	318553	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 127672	2896 270953	7464	20442	46249	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromochloromethane	CBZ	Lin1	3999 567976	14226 1187181	30732	85441	188628	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromoethane (EDB)	CBZ	Ave	+++++ 436270	13389 904055	26499	68937	145069	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	+++++ 1780530	57652 3588635	113982	295784	627284	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	26624 2735631	88363 5521747	171752	455414	968556	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	+++++ 1750693	55988 3560109	111628	288062	618819	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBZ	Ave	7430 837891	24427 1733229	50002	131014	282070	0.300 30.0	1.00 60.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	+++++ 4240145	137511 8228702	280092	715471	1514203	+++++ 60.0	2.00 120	4.00	10.0	20.0
o-Xylene	CBZ	Ave	+++++ 1969378	66393 3961543	127073	324819	696637	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Styrene	CBZ	Ave	+++++ 3013465	90657 6025071	189063	487198	1056401	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	+++++ 4955286	168690 9575691	334200	855976	1793824	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexanone	CBZ	Ave	+++++ 453209	+++++ 915168	27401	66099	143291	+++++ 1200	+++++ 2400	80.0	200	400
1,1,2,2-Tetrachloroethane	DCB	Ave	3929 471361	14144 980148	28662	72079	158356	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Propylbenzene	DCB	Ave	+++++ 1550638	49836 3217665	99043	258397	545871	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	+++++ 919300	28833 1961654	56741	147339	318822	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	+++++ 4355685	140870 8579988	284843	740284	1562898	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	+++++ 1176759	36318 2436499	75611	190959	407249	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 67244	+++++ 150807	3578	9958	21353	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	+++++ 1161525	37254 2431055	72855	187860	406531	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	+++++ 4478501	148595 9000061	294594	741507	1588230	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	+++++ 4259190	140563 8492418	278645	719749	1523998	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	+++++ 1246465	39397 2599120	78795	204348	437928	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	+++++ 4884979	160850 9682694	324299	827751	1771039	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	+++++ 1964858	62954 4160840	124303	318327	693690	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	18238 1875484	63689 4007573	124103	309727	655160	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	+++++ 4806600	164763 9510899	324798	825575	1754427	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	+++++ 1561029	50057 3335231	103126	254408	554870	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 1058509	33794 2373055	66943	171510	369154	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	6420 756625	24816 1714824	49529	122417	271757	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Naphthalene	DCB	Ave	+++++ 1478645	46131 3311289	91438	233150	519024	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	+++++ 814875	26345 1848210	53035	130444	288243	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4602.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 10:19
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,M0.3
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.167	8.166	(1.000)	1769548	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	397643	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	520424	12.5000	(Q)
M 1 1,2-Dichloroethene (total)	96				26878	0.60000	0.647983(a)
M 2 Xylene (total)	106				61693	0.90000	0.840143(a)
M 3 1,3-Dichloropropene (total)	75				20052	0.60000	0.505510(a)
M 4 Trihalomethanes (total)	83				30063	1.20000	0.897075(a)
5 Chlorotrifluoroethene	116	Compound Not Detected.					
6 dichlorodifluoromethane	85	4.327	4.329	(0.530)	8989	0.30000	0.570181(aQ)
8 Chloromethane	50	4.551	4.581	(0.557)	13248	0.30000	0.407875(a)
9 Vinyl Chloride	62	4.718	4.734	(0.578)	9437	0.30000	0.282062(aQ)
10 2-Chloro-1,1,1-trifluoroethan	118	4.760	4.776	(0.583)	14317	0.30000	0.319830(a)
12 Bromomethane	94	5.095	5.111	(0.624)	7422	0.30000	0.289486(aQ)
15 Trichlorofluoromethane	101	5.472	5.474	(0.670)	15162	0.30000	0.270979(a)
16 Ethanol	45	Compound Not Detected.					
20 Acrolein	56	5.766	5.768	(0.706)	4723	3.00000	2.52439(a)
24 1,1-Dichloroethene	96	5.919	5.935	(0.725)	11081	0.30000	0.273147(a)
25 Iodomethane	142	6.093	6.115	(0.746)	13264	0.30000	0.269278(a)
30 tert-Butyl alcohol	59	6.215	6.222	(0.761)	4674	6.00000	4.70006(aQ)
31 Methylene Chloride	84	6.272	6.279	(0.768)	24923	0.30000	0.710438(a)
32 Acrylonitrile	53	6.429	6.429	(0.787)	10135	3.00000	2.43781(a)
34 trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	12794	0.30000	0.306956(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
37	Isopropyl ether	87	6.772	6.773	(0.829)	36594	1.50000	1.33473(a)
38	1,1-Dichloroethane	63	6.830	6.830	(0.836)	19160	0.30000	0.281646(a)
39	Chloroprene	53	6.901	6.901	(0.845)	19111	0.30000	0.264727(a)
42	2-Butanone	43	Compound Not Detected.					
45	cis-1,2-Dichloroethene	96	7.266	7.273	(0.890)	14084	0.30000	0.341027(a)
46	2,2-Dichloropropane	77	Compound Not Detected.					
47	Methacrylonitrile	41	7.402	7.402	(0.906)	19764	5.00000	2.57581(a)
48	Bromochloromethane	128	7.473	7.473	(0.915)	3441	0.30000	0.268045(a)
49	Chloroform	83	7.480	7.481	(0.916)	17437	0.30000	0.293449(a)
53	1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	15479	0.30000	0.266882(a)
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	16842	0.30000	0.276457(a)
56	Carbon Tetrachloride	117	7.845	7.852	(0.961)	13507	0.30000	0.273374(a)
58	1,2-Dichloroethane	62	7.974	7.974	(0.976)	16458	0.30000	0.353312(a)
60	Benzene	78	7.995	7.995	(0.979)	45716	0.30000	0.284209(a)
62	n-Butanol	56	8.167	8.174	(1.000)	11308	10.0000	20.7188(aQ)
63	Trichloroethene	95	8.445	8.446	(1.034)	11567	0.30000	0.282256(a)
66	1,2-Dichloropropane	63	8.624	8.632	(1.056)	9312	0.30000	0.271497(a)
68	1,4-Dioxane	88	Compound Not Detected.					
69	Dibromomethane	93	8.739	8.732	(1.070)	2491	0.30000	0.217960(aQ)
70	Bromodichloromethane	83	8.803	8.796	(1.078)	8627	0.30000	0.246294(aQ)
73	cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	11964	0.30000	0.263463(aQ)
74	4-Methyl-2-pentanone	43	9.160	9.161	(1.122)	12256	1.20000	1.05726(a)
76	Toluene	91	9.396	9.397	(1.151)	72157	0.30000	0.410512(a)
79	1,1,2-Trichloroethane	97	9.654	9.661	(1.182)	4728	0.30000	0.281734(a)
80	2-Hexanone	43	9.761	9.769	(0.932)	8629	1.20000	1.12042(a)
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	9507	0.30000	0.301779(a)
82	Tetrachloroethene	164	9.825	9.826	(0.939)	8443	0.30000	0.262020(a)
83	Dibromochloromethane	129	10.004	10.005	(0.956)	3999	0.30000	0.357332(aQ)
85	1,2-Dibromoethane	107	10.147	10.140	(0.969)	4184	0.30000	0.280708(a)
86	1-Chlorohexane	91	10.362	10.362	(0.990)	18882	0.30000	0.300878(aQ)
88	Chlorobenzene	112	10.498	10.491	(1.003)	26624	0.30000	0.279797(aQ)
89	1,1,1,2-Tetrachloroethane	131	10.533	10.527	(1.006)	7430	0.30000	0.267184(a)
90	Ethylbenzene	106	10.526	10.527	(1.005)	16836	0.30000	0.273471(a)
91	m and p-Xylene	106	10.605	10.605	(1.013)	43050	0.60000	0.573526(a)
92	o-Xylene	106	10.941	10.941	(1.045)	18643	0.30000	0.266617(a)
93	Styrene	104	10.941	10.941	(1.045)	26381	0.30000	0.253909(a)
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	11.213	11.213	(0.903)	51136	0.30000	0.294335(a)
99	1,1,2,2-Tetrachloroethane	83	11.427	11.435	(0.920)	3929	0.30000	0.258240(aQ)
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	11.570	11.570	(0.931)	8554	0.30000	0.274158(a)
102	n-Propylbenzene	120	11.556	11.556	(0.930)	15133	0.30000	0.283556(a)
105	2-Chlorotoluene	126	11.699	11.692	(0.942)	10831	0.30000	0.271060(a)
104	1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	42550	0.30000	0.282896(a)
106	4-Chlorotoluene	126	11.770	11.778	(0.948)	10647	0.30000	0.268440(a)
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	42893	0.30000	0.276850(a)
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	41521	0.30000	0.281224(a)
109	sec-Butylbenzene	134	12.185	12.185	(0.981)	12166	0.30000	0.285504(a)
110	4-Isopropyltoluene	119	12.285	12.285	(0.989)	50567	0.30000	0.297456(a)
111	1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	18900	0.30000	0.280301(a)
113	1,4-dichlorobenzene	146	12.442	12.450	(1.002)	18238	0.30000	0.280755(a)
115	n-Butylbenzene	91	12.678	12.679	(1.021)	48017	0.30000	0.283349(a)
116	1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	15330	0.30000	0.283090(a)
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
118 1,2,4-Trichlorobenzene	180	14.723	14.724	(1.185)	9879	0.30000	0.270047(a)
119 Hexachlorobutadiene	225	14.881	14.881	(1.198)	6420	0.30000	0.248369(a)
120 Naphthalene	128	15.131	15.138	(1.218)	13926	0.30000	0.275476(a)
121 1,2,3-Trichlorobenzene	180	15.495	15.496	(1.248)	7447	0.30000	0.262019(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4602.D

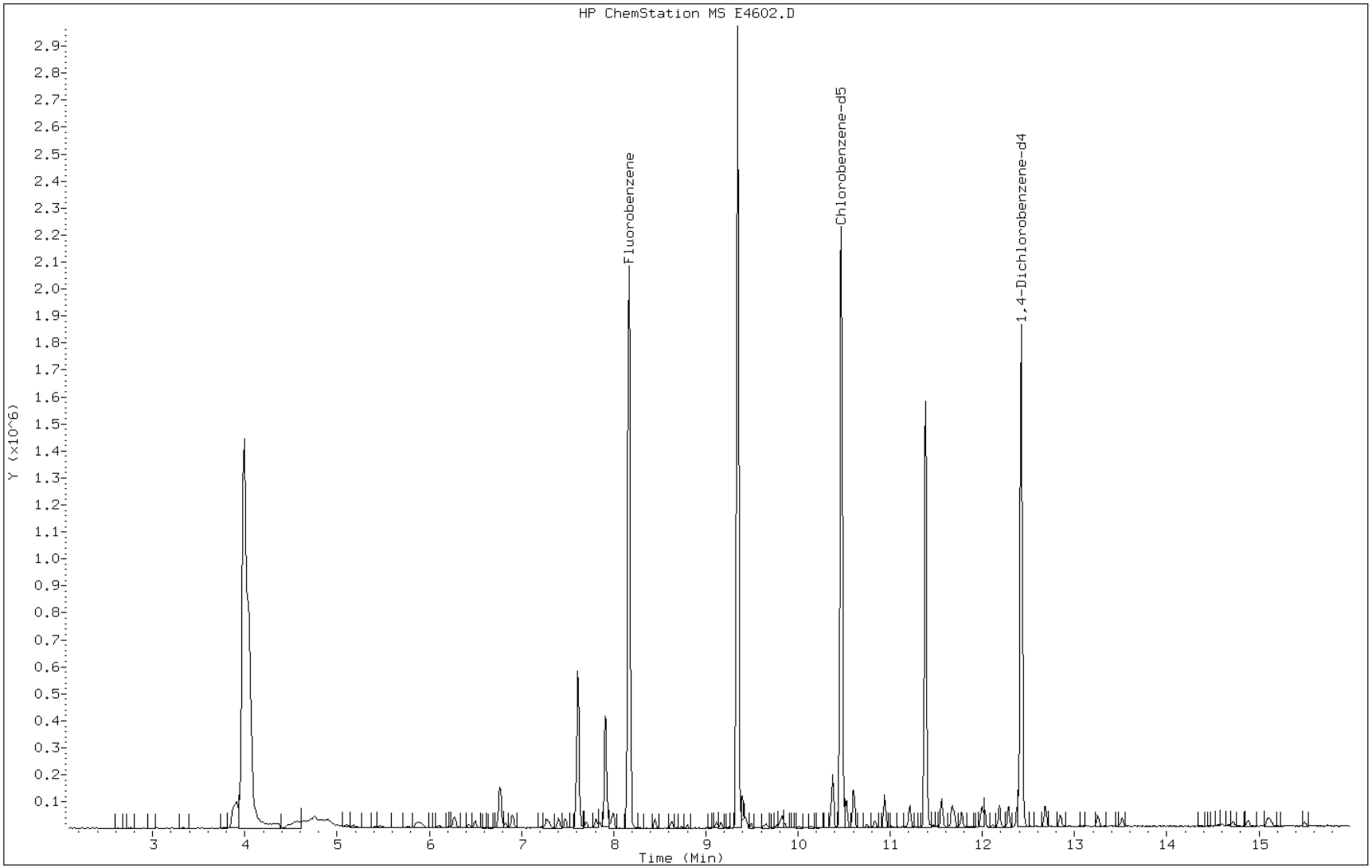
Date: 28-NOV-2011 10:19

Client ID: IC

Instrument: E.i

Sample Info: IC,,M0.3

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4603.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 10:38
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,M1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 61	Fluorobenzene	96	8.166	8.166	(1.000)	1600862	12.5000	
* 87	Chlorobenzene-d5	119	10.469	10.469	(1.000)	363851	12.5000	
* 112	1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	490278	12.5000	(Q)
M 1	1,2-Dichloroethene (total)	96				76371	2.00000	2.03470
M 2	Xylene (total)	106				203904	3.00000	3.03979
M 3	1,3-Dichloropropene (total)	75				68271	2.00000	1.90908
M 4	Trihalomethanes (total)	83				103029	4.00000	3.68230
5	Chlorotrifluoroethene	116	4.259	4.259	(0.522)	7645	1.00000	1.14721
6	dichlorodifluoromethane	85	4.314	4.329	(0.528)	27587	1.00000	1.09976(a)
8	Chloromethane	50	4.552	4.581	(0.557)	31074	1.00000	1.05750(a)
9	Vinyl Chloride	62	4.719	4.734	(0.578)	30099	1.00000	0.994422(a)
10	2-Chloro-1,1,1-trifluoroethan	118	4.761	4.776	(0.583)	41274	1.00000	1.01918
12	Bromomethane	94	5.097	5.111	(0.624)	22935	1.00000	0.988814(a)
13	Chloroethane	64	5.180	5.181	(0.634)	26276	1.00000	1.01720(a)
15	Trichlorofluoromethane	101	5.460	5.474	(0.669)	50131	1.00000	0.990361(a)
16	Ethanol	45	Compound Not Detected.					
20	Acrolein	56	5.767	5.768	(0.706)	16630	10.0000	9.82517(a)
22	Acetone	43	5.879	5.865	(0.720)	20644	4.00000	4.21238(a)
24	1,1-Dichloroethene	96	5.921	5.935	(0.725)	36014	1.00000	0.981289(a)
25	Iodomethane	142	6.100	6.115	(0.747)	44264	1.00000	0.993310(a)
30	tert-Butyl alcohol	59	6.214	6.222	(0.761)	15639	20.0000	17.3833(aQ)
31	Methylene Chloride	84	6.271	6.279	(0.768)	46353	1.00000	1.46054(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
32 Acrylonitrile	53	6.429	6.429	(0.787)	35569	10.0000	9.45705(a)
34 trans-1,2-Dichloroethene	96	6.500	6.501	(0.796)	38320	1.00000	1.01626
37 Isopropyl ether	87	6.765	6.773	(0.828)	121019	5.00000	4.87917(a)
38 1,1-Dichloroethane	63	6.829	6.830	(0.836)	61510	1.00000	0.999453(a)
39 Chloroprene	53	6.901	6.901	(0.845)	63318	1.00000	0.969506(a)
42 2-Butanone	43	7.215	7.209	(0.884)	18182	4.00000	3.96638(a)
45 cis-1,2-Dichloroethene	96	7.272	7.273	(0.891)	38051	1.00000	1.01844
44 Propionitrile	54	7.272	7.273	(0.891)	12554	10.0000	9.32739(a)
46 2,2-Dichloropropane	77	7.294	7.302	(0.893)	52428	1.00000	1.04327(a)
47 Methacrylonitrile	41	7.401	7.402	(0.906)	66664	10.0000	9.60369(a)
48 Bromochloromethane	128	7.480	7.473	(0.916)	11223	1.00000	0.966364(a)
49 Chloroform	83	7.480	7.481	(0.916)	52732	1.00000	0.980944(a)
53 1,1,1-Trichloroethane	97	7.701	7.702	(0.943)	53268	1.00000	1.01520
55 1,1-Dichloropropene	75	7.809	7.809	(0.956)	55600	1.00000	1.00883
56 Carbon Tetrachloride	117	7.852	7.852	(0.961)	43211	1.00000	0.966722(a)
58 1,2-Dichloroethane	62	7.973	7.974	(0.976)	29358	1.00000	0.901065(a)
60 Benzene	78	7.995	7.995	(0.979)	149691	1.00000	1.02866
62 n-Butanol	56	8.166	8.174	(1.000)	16133	20.0000	32.6739(a)
63 Trichloroethene	95	8.445	8.446	(1.034)	36401	1.00000	0.981848(a)
66 1,2-Dichloropropane	63	8.631	8.632	(1.057)	30932	1.00000	0.996870(a)
69 Dibromomethane	93	8.731	8.732	(1.069)	10012	1.00000	0.968350(a)
70 Bromodichloromethane	83	8.803	8.796	(1.078)	30288	1.00000	0.955812(a)
73 cis-1,3-Dichloropropene	75	9.117	9.118	(1.116)	39976	1.00000	0.973084(aQ)
74 4-Methyl-2-pentanone	43	9.167	9.161	(1.123)	39049	4.00000	3.72349(a)
76 Toluene	91	9.396	9.397	(1.151)	168559	1.00000	1.06000
78 trans-1,3-Dichloropropene	75	9.489	9.490	(1.162)	28295	1.00000	0.936001(a)
79 1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	14673	1.00000	0.966474(a)
80 2-Hexanone	43	9.768	9.769	(0.933)	28256	4.00000	4.00960(a)
81 1,3-Dichloropropane	76	9.804	9.804	(0.936)	27573	1.00000	0.956533(a)
82 Tetrachloroethene	164	9.832	9.826	(0.939)	29175	1.00000	0.989507(a)
83 Dibromochloromethane	129	10.011	10.005	(0.956)	14226	1.00000	0.935978(a)
85 1,2-Dibromoethane	107	10.147	10.140	(0.969)	13389	1.00000	0.981707(a)
86 1-Chlorohexane	91	10.361	10.362	(0.990)	57652	1.00000	1.00398(Q)
88 Chlorobenzene	112	10.490	10.491	(1.002)	88363	1.00000	1.01487
89 1,1,1,2-Tetrachloroethane	131	10.526	10.527	(1.005)	24427	1.00000	0.959980(a)
90 Ethylbenzene	106	10.526	10.527	(1.005)	55988	1.00000	0.993888(a)
91 m and p-Xylene	106	10.604	10.605	(1.013)	137511	2.00000	2.00211
92 o-Xylene	106	10.940	10.941	(1.045)	66393	1.00000	1.03768
93 Styrene	104	10.940	10.941	(1.045)	90657	1.00000	0.953580(a)
94 Bromoform	173	11.169	11.163	(1.067)	5783	1.00000	0.809570(a)
95 isopropyl benzene	105	11.212	11.213	(0.903)	168690	1.00000	1.03067
97 Cyclohexanone	55	11.362	11.363	(1.085)	14711	40.0000	42.7275(a)
99 1,1,2,2-Tetrachloroethane	83	11.434	11.435	(0.921)	14144	1.00000	0.986801(a)
101 1,2,3-Trichloropropane	110	11.520	11.513	(0.927)	2896	1.00000	0.744309(a)
103 Bromobenzene	156	11.570	11.570	(0.931)	28833	1.00000	0.980925(a)
102 n-Propylbenzene	120	11.555	11.556	(0.930)	49836	1.00000	0.991224(a)
105 2-Chlorotoluene	126	11.691	11.692	(0.941)	36318	1.00000	0.964794(a)
104 1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	140870	1.00000	0.994169(a)
106 4-Chlorotoluene	126	11.777	11.778	(0.948)	37254	1.00000	0.997027(a)
107 tert-Butylbenzene	119	11.992	11.992	(0.965)	148595	1.00000	1.01807
108 1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	140563	1.00000	1.01058
109 sec-Butylbenzene	134	12.185	12.185	(0.981)	39397	1.00000	0.981391(a)
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	160850	1.00000	1.00436
111 1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	62954	1.00000	0.991064(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
113 1,4-dichlorobenzene	146	12.449	12.450	(1.002)	63689	1.00000	1.04071
115 n-Butylbenzene	91	12.685	12.679	(1.021)	164763	1.00000	1.03205
116 1,2-Dichlorobenzene	146	12.842	12.843	(1.034)	50057	1.00000	0.981211(a)
117 1,2-Dibromo-3-chloropropane	157	13.658	13.665	(1.100)	1301	1.00000	0.633381(aQ)
118 1,2,4-Trichlorobenzene	180	14.723	14.724	(1.185)	33794	1.00000	0.980577(a)
119 Hexachlorobutadiene	225	14.887	14.881	(1.199)	24816	1.00000	1.01908
120 Naphthalene	128	15.138	15.138	(1.219)	46131	1.00000	0.968647(a)
121 1,2,3-Trichlorobenzene	180	15.488	15.496	(1.247)	26345	1.00000	0.983931(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4603.D

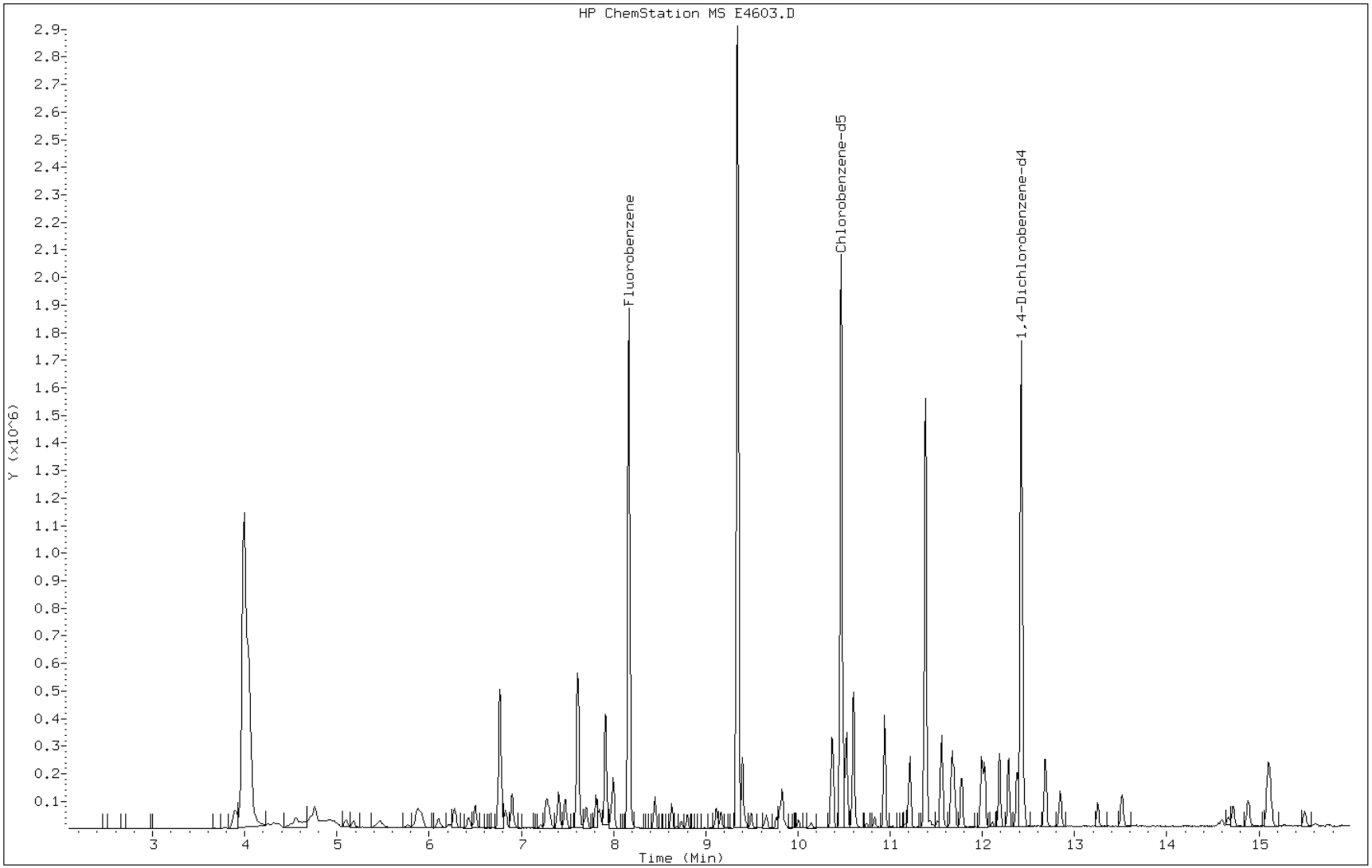
Date: 28-NOV-2011 10:38

Client ID: IC

Instrument: E.i

Sample Info: IC,,M1.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4604.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 10:57
Operator : MEIERG Inst ID: E.i
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Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 61	Fluorobenzene	96	8.167	8.166	(1.000)	1638653	12.5000	
* 87	Chlorobenzene-d5	119	10.469	10.469	(1.000)	372282	12.5000	
* 112	1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	501777	12.5000	(Q)
M 1	1,2-Dichloroethene (total)	96				148975	4.00000	3.87755
M 2	Xylene (total)	106				407165	6.00000	5.92677
M 3	1,3-Dichloropropene (total)	75				137641	4.00000	3.75606
M 4	Trihalomethanes (total)	83				214094	8.00000	7.49198
5	Chlorotrifluoroethene	116	4.258	4.259	(0.521)	14892	2.00000	1.64837
6	dichlorodifluoromethane	85	4.314	4.329	(0.528)	49654	2.00000	1.66928(a)
8	Chloromethane	50	4.551	4.581	(0.557)	55066	2.00000	1.83078(a)
9	Vinyl Chloride	62	4.719	4.734	(0.578)	58498	2.00000	1.88811
10	2-Chloro-1,1,1-trifluoroethan	118	4.761	4.776	(0.583)	81667	2.00000	1.97010
12	Bromomethane	94	5.096	5.111	(0.624)	44075	2.00000	1.85641(a)
13	Chloroethane	64	5.180	5.181	(0.634)	51739	2.00000	1.95673(a)
15	Trichlorofluoromethane	101	5.459	5.474	(0.668)	96345	2.00000	1.85944(a)
20	Acrolein	56	5.766	5.768	(0.706)	31368	20.0000	18.1051(a)
22	Acetone	43	5.864	5.865	(0.718)	29257	8.00000	7.03406(a)
24	1,1-Dichloroethene	96	5.920	5.935	(0.725)	77897	2.00000	2.07354
25	Iodomethane	142	6.101	6.115	(0.747)	84043	2.00000	1.84248
26	Acetonitrile	41	6.115	6.115	(0.749)	21226	20.0000	18.9421(aQ)
30	tert-Butyl alcohol	59	6.215	6.222	(0.761)	30245	40.0000	32.8430(aQ)
31	Methylene Chloride	84	6.272	6.279	(0.768)	71277	2.00000	2.19407(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
32	Acrylonitrile	53	6.422	6.429	(0.786)	71056	20.0000	18.4566(a)
34	trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	74582	2.00000	1.93232
37	Isopropyl ether	87	6.766	6.773	(0.828)	245533	10.0000	9.67094(a)
38	1,1-Dichloroethane	63	6.830	6.830	(0.836)	121796	2.00000	1.93338
39	Chloroprene	53	6.901	6.901	(0.845)	130302	2.00000	1.94913
42	2-Butanone	43	7.209	7.209	(0.883)	35941	8.00000	7.65967
45	cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	74393	2.00000	1.94522
44	Propionitrile	54	7.273	7.273	(0.891)	25875	20.0000	18.7813(a)
46	2,2-Dichloropropane	77	7.295	7.302	(0.893)	100204	2.00000	1.94798(a)
47	Methacrylonitrile	41	7.402	7.402	(0.906)	136658	20.0000	19.2331
48	Bromochloromethane	128	7.473	7.473	(0.915)	23449	2.00000	1.97253
49	Chloroform	83	7.481	7.481	(0.916)	106069	2.00000	1.92764
53	1,1,1-Trichloroethane	97	7.709	7.702	(0.944)	101937	2.00000	1.89795
52	Isobutanol	41	7.674	7.666	(0.940)	14224	40.0000	41.1241(a)
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	111629	2.00000	1.97873
56	Carbon Tetrachloride	117	7.845	7.852	(0.961)	85694	2.00000	1.87294
58	1,2-Dichloroethane	62	7.974	7.974	(0.976)	55620	2.00000	1.84671
60	Benzene	78	7.995	7.995	(0.979)	295236	2.00000	1.98205
62	n-Butanol	56	8.174	8.174	(1.001)	23415	40.0000	46.3284(a)
63	Trichloroethene	95	8.446	8.446	(1.034)	73416	2.00000	1.93459
66	1,2-Dichloropropane	63	8.632	8.632	(1.057)	61397	2.00000	1.93306
68	1,4-Dioxane	88	8.675	8.675	(1.062)	9170	100.000	87.2365(a)
69	Dibromomethane	93	8.732	8.732	(1.069)	19720	2.00000	1.86331
70	Bromodichloromethane	83	8.796	8.796	(1.077)	64276	2.00000	1.98161
73	cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	81073	2.00000	1.92794
74	4-Methyl-2-pentanone	43	9.161	9.161	(1.122)	85168	8.00000	7.93385
76	Toluene	91	9.397	9.397	(1.151)	326785	2.00000	2.00763
78	trans-1,3-Dichloropropene	75	9.490	9.490	(1.162)	56568	2.00000	1.82812(a)
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	29338	2.00000	1.88785
80	2-Hexanone	43	9.769	9.769	(0.933)	53510	8.00000	7.42125
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	56626	2.00000	1.91992
82	Tetrachloroethene	164	9.826	9.826	(0.939)	57543	2.00000	1.90744
83	Dibromochloromethane	129	10.005	10.005	(0.956)	30732	2.00000	1.80174
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	26499	2.00000	1.89896
86	1-Chlorohexane	91	10.362	10.362	(0.990)	113982	2.00000	1.93999(Q)
88	Chlorobenzene	112	10.491	10.491	(1.002)	171752	2.00000	1.92793
89	1,1,1,2-Tetrachloroethane	131	10.527	10.527	(1.005)	50002	2.00000	1.92057
90	Ethylbenzene	106	10.527	10.527	(1.005)	111628	2.00000	1.93672
91	m and p-Xylene	106	10.605	10.605	(1.013)	280092	4.00000	3.98568
92	o-Xylene	106	10.941	10.941	(1.045)	127073	2.00000	1.94109
93	Styrene	104	10.941	10.941	(1.045)	189063	2.00000	1.94363
94	Bromoform	173	11.163	11.163	(1.066)	13017	2.00000	1.78100
95	isopropyl benzene	105	11.213	11.213	(0.903)	334200	2.00000	1.99511
97	Cyclohexanone	55	11.356	11.363	(1.085)	27401	80.0000	77.7828(a)
99	1,1,2,2-Tetrachloroethane	83	11.435	11.435	(0.921)	28662	2.00000	1.95387
101	1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	7464	2.00000	1.87438
103	Bromobenzene	156	11.570	11.570	(0.931)	56741	2.00000	1.88614
102	n-Propylbenzene	120	11.556	11.556	(0.930)	99043	2.00000	1.92479
105	2-Chlorotoluene	126	11.692	11.692	(0.941)	75611	2.00000	1.96259
104	1,3,5-Trimethylbenzene	105	11.671	11.671	(0.940)	284843	2.00000	1.96417
106	4-Chlorotoluene	126	11.778	11.778	(0.948)	72855	2.00000	1.90513
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	294594	2.00000	1.97210
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	278645	2.00000	1.95741
109	sec-Butylbenzene	134	12.185	12.185	(0.981)	78795	2.00000	1.91782

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	324299	2.00000	1.97855
111 1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	124303	2.00000	1.91202
113 1,4-dichlorobenzene	146	12.450	12.450	(1.002)	124103	2.00000	1.98143
115 n-Butylbenzene	91	12.679	12.679	(1.021)	324798	2.00000	1.98787
116 1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	103126	2.00000	1.97514
117 1,2-Dibromo-3-chloropropane	157	13.658	13.665	(1.100)	3578	2.00000	1.70200(a)
118 1,2,4-Trichlorobenzene	180	14.716	14.724	(1.185)	66943	2.00000	1.89792
119 Hexachlorobutadiene	225	14.881	14.881	(1.198)	49529	2.00000	1.98732
120 Naphthalene	128	15.131	15.138	(1.218)	91438	2.00000	1.87599
121 1,2,3-Trichlorobenzene	180	15.496	15.496	(1.248)	53035	2.00000	1.93536

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4604.D

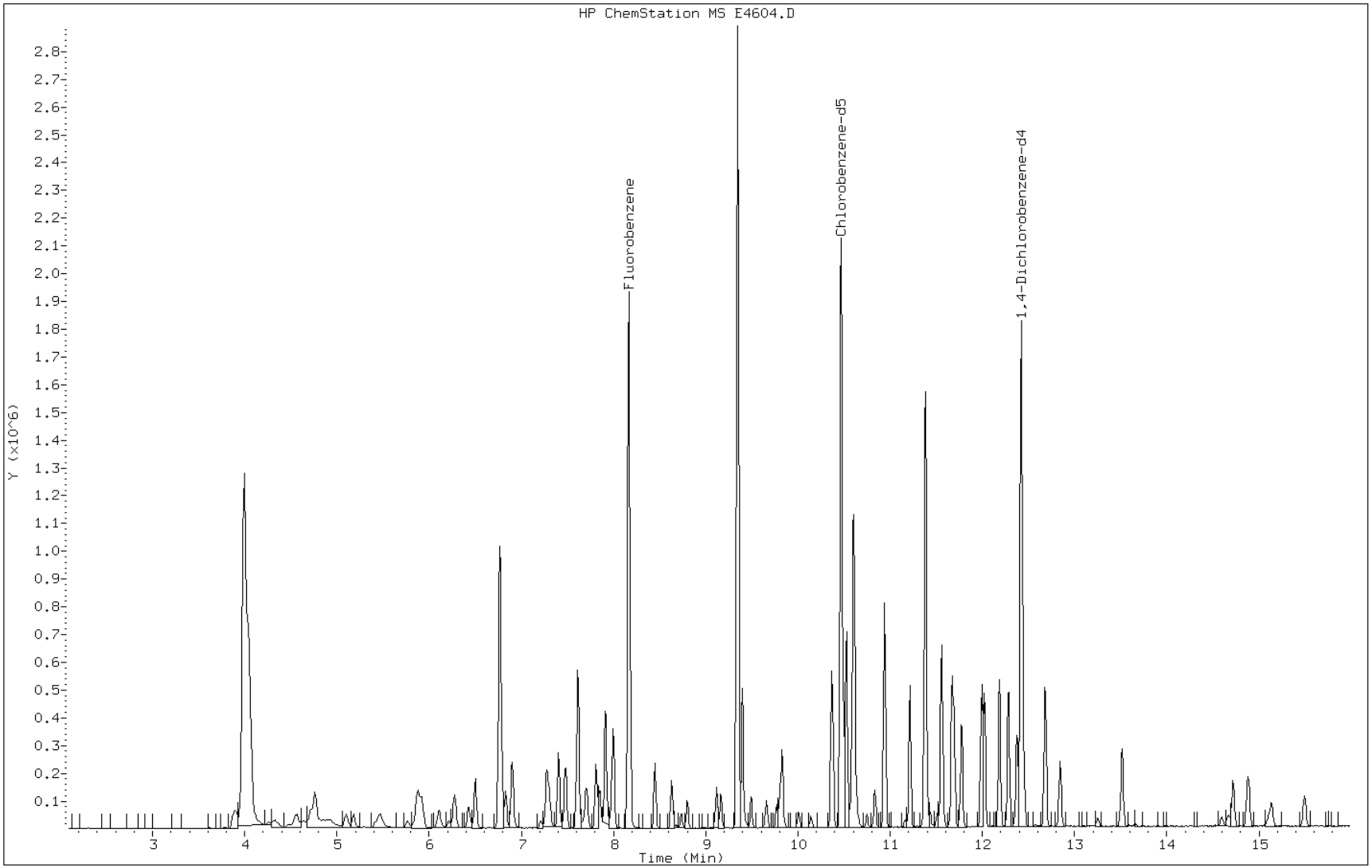
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Instrument: E.i

Sample Info: IC,,M2.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4605.D
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Inj Date : 28-NOV-2011 11:16
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Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1621311	12.5000	
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	369529	12.5000	
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	490537	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				381368	10.0000	10.0324
M	2 Xylene (total)	106				1040290	15.0000	15.2556
M	3 1,3-Dichloropropene (total)	75				360569	10.0000	9.97143
M	4 Trihalomethanes (total)	83				563158	20.0000	19.8778
	5 Chlorotrifluoroethene	116	4.272	4.259	(0.523)	62770	5.00000	5.09149
	6 dichlorodifluoromethane	85	4.328	4.329	(0.530)	175246	5.00000	5.05904
	8 Chloromethane	50	4.566	4.581	(0.559)	154292	5.00000	5.18462
	9 Vinyl Chloride	62	4.719	4.734	(0.578)	158409	5.00000	5.16757
	10 2-Chloro-1,1,1-trifluoroethan	118	4.775	4.776	(0.585)	207826	5.00000	5.06714
	12 Bromomethane	94	5.110	5.111	(0.626)	120444	5.00000	5.12730
	13 Chloroethane	64	5.180	5.181	(0.634)	133519	5.00000	5.10359
	15 Trichlorofluoromethane	101	5.473	5.474	(0.670)	259809	5.00000	5.06791
	16 Ethanol	45	5.459	5.460	(0.669)	28787	250.000	244.882(a)
	20 Acrolein	56	5.767	5.768	(0.706)	83934	50.0000	48.9636
	22 Acetone	43	5.878	5.865	(0.720)	68545	20.0000	20.9316
	24 1,1-Dichloroethene	96	5.920	5.935	(0.725)	189164	5.00000	5.08922
	25 Iodomethane	142	6.107	6.115	(0.748)	225499	5.00000	4.99651
	26 Acetonitrile	41	6.121	6.115	(0.750)	51071	50.0000	46.0633
	30 tert-Butyl alcohol	59	6.214	6.222	(0.761)	87706	100.000	96.2587(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31 Methylene Chloride	84	6.279	6.279	(0.769)	163761	5.00000	5.09486
32 Acrylonitrile	53	6.429	6.429	(0.787)	188284	50.0000	49.4293
34 trans-1,2-Dichloroethene	96	6.500	6.501	(0.796)	191345	5.00000	5.01053
37 Isopropyl ether	87	6.772	6.773	(0.829)	646390	25.0000	25.7320
38 1,1-Dichloroethane	63	6.829	6.830	(0.836)	314938	5.00000	5.05277
39 Chloroprene	53	6.901	6.901	(0.845)	336285	5.00000	5.08415
42 2-Butanone	43	7.215	7.209	(0.884)	92234	20.0000	19.8670
45 cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	190023	5.00000	5.02186
44 Propionitrile	54	7.273	7.273	(0.891)	67066	50.0000	49.2003
46 2,2-Dichloropropane	77	7.301	7.302	(0.894)	255386	5.00000	5.01784
47 Methacrylonitrile	41	7.401	7.402	(0.906)	348724	50.0000	49.6039
48 Bromochloromethane	128	7.480	7.473	(0.916)	57780	5.00000	4.91244
49 Chloroform	83	7.480	7.481	(0.916)	278272	5.00000	5.11125
53 1,1,1-Trichloroethane	97	7.709	7.702	(0.944)	268184	5.00000	5.04668
52 Isobutanol	41	7.673	7.666	(0.940)	32934	100.000	96.2365(a)
55 1,1-Dichloropropene	75	7.809	7.809	(0.956)	280823	5.00000	5.03109
56 Carbon Tetrachloride	117	7.852	7.852	(0.961)	226353	5.00000	5.00013
58 1,2-Dichloroethane	62	7.973	7.974	(0.976)	135869	5.00000	4.86841
60 Benzene	78	8.002	7.995	(0.980)	757147	5.00000	5.13744
62 n-Butanol	56	8.173	8.174	(1.001)	48952	100.000	97.8914
63 Trichloroethene	95	8.452	8.446	(1.035)	189894	5.00000	5.05743
66 1,2-Dichloropropane	63	8.631	8.632	(1.057)	154624	5.00000	4.92034
68 1,4-Dioxane	88	8.681	8.675	(1.063)	22817	250.000	219.386
69 Dibromomethane	93	8.738	8.732	(1.070)	51802	5.00000	4.94704
70 Bromodichloromethane	83	8.803	8.796	(1.078)	163936	5.00000	5.10815
73 cis-1,3-Dichloropropene	75	9.117	9.118	(1.116)	209290	5.00000	5.03022
74 4-Methyl-2-pentanone	43	9.167	9.161	(1.123)	209196	20.0000	19.6962
76 Toluene	91	9.396	9.397	(1.151)	821193	5.00000	5.09904
78 trans-1,3-Dichloropropene	75	9.489	9.490	(1.162)	151279	5.00000	4.94120
79 1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	74763	5.00000	4.86234
80 2-Hexanone	43	9.768	9.769	(0.933)	144705	20.0000	20.2185
81 1,3-Dichloropropane	76	9.804	9.804	(0.936)	148090	5.00000	5.05844
82 Tetrachloroethene	164	9.832	9.826	(0.939)	149279	5.00000	4.98519
83 Dibromochloromethane	129	10.011	10.005	(0.956)	85441	5.00000	4.76386
85 1,2-Dibromoethane	107	10.140	10.140	(0.969)	68937	5.00000	4.97692
86 1-Chlorohexane	91	10.361	10.362	(0.990)	295784	5.00000	5.07180
88 Chlorobenzene	112	10.490	10.491	(1.002)	455414	5.00000	5.15016
89 1,1,1,2-Tetrachloroethane	131	10.526	10.527	(1.005)	131014	5.00000	5.06973
90 Ethylbenzene	106	10.526	10.527	(1.005)	288062	5.00000	5.03505
91 m and p-Xylene	106	10.605	10.605	(1.013)	715471	10.0000	10.2569
92 o-Xylene	106	10.941	10.941	(1.045)	324819	5.00000	4.99871
93 Styrene	104	10.941	10.941	(1.045)	487198	5.00000	5.04588
94 Bromoform	173	11.162	11.163	(1.066)	35509	5.00000	4.89457
95 isopropyl benzene	105	11.212	11.213	(0.903)	855976	5.00000	5.22711
97 Cyclohexanone	55	11.362	11.363	(1.085)	66099	200.000	189.032
99 1,1,2,2-Tetrachloroethane	83	11.434	11.435	(0.921)	72079	5.00000	5.02616
101 1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	20442	5.00000	5.25108
103 Bromobenzene	156	11.570	11.570	(0.931)	147339	5.00000	5.00996
102 n-Propylbenzene	120	11.555	11.556	(0.930)	258397	5.00000	5.13673
105 2-Chlorotoluene	126	11.691	11.692	(0.941)	190959	5.00000	5.07018
104 1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	740284	5.00000	5.22168
106 4-Chlorotoluene	126	11.777	11.778	(0.948)	187860	5.00000	5.02504
107 tert-Butylbenzene	119	11.992	11.992	(0.965)	741507	5.00000	5.07761
108 1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	719749	5.00000	5.17191

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 sec-Butylbenzene	134	12.185	12.185	(0.981)	204348	5.00000	5.08768
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	827751	5.00000	5.16584
111 1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	318327	5.00000	5.00867
113 1,4-dichlorobenzene	146	12.449	12.450	(1.002)	309727	5.00000	5.05842
115 n-Butylbenzene	91	12.685	12.679	(1.021)	825575	5.00000	5.16856
116 1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	254408	5.00000	4.98424
117 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	9958	5.00000	4.84541
118 1,2,4-Trichlorobenzene	180	14.723	14.724	(1.185)	171510	5.00000	4.97396
119 Hexachlorobutadiene	225	14.880	14.881	(1.198)	122417	5.00000	5.02446
120 Naphthalene	128	15.138	15.138	(1.219)	233150	5.00000	4.89304
121 1,2,3-Trichlorobenzene	180	15.495	15.496	(1.248)	130444	5.00000	4.86924

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4605.D

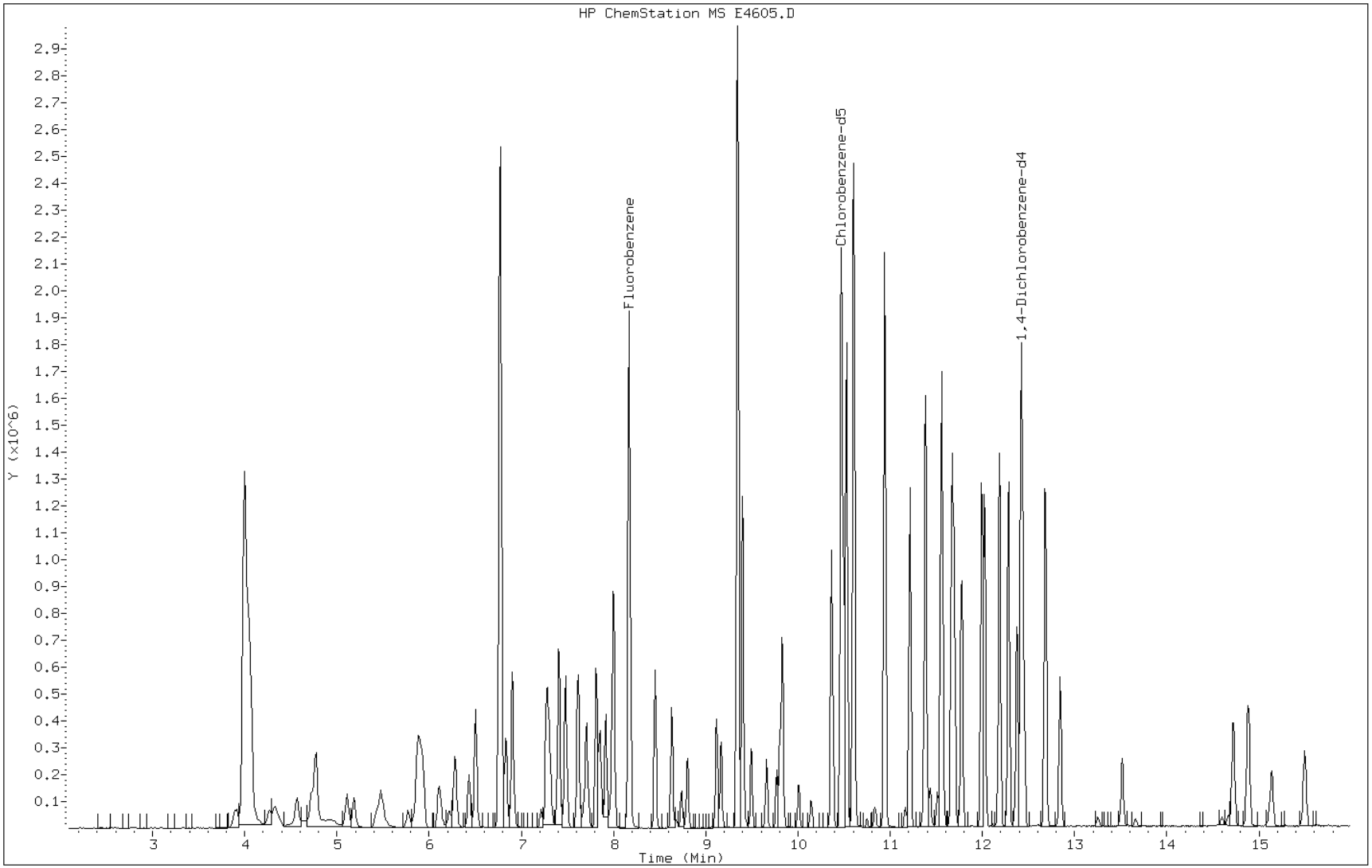
Date: 28-NOV-2011 11:16

Client ID: IC

Instrument: E.i

Sample Info: IC,,M5.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4606.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 11:35
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,M10
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1629426	12.5000	
*	87 Chlorobenzene-d5	119	10.468	10.469	(1.000)	373962	12.5000	
*	112 1,4-Dichlorobenzene-d4	152	12.420	12.421	(1.000)	507155	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				797524	20.0000	20.8756
M	2 Xylene (total)	106				2210840	30.0000	32.0437
M	3 1,3-Dichloropropene (total)	75				778811	20.0000	21.4316
M	4 Trihalomethanes (total)	83				1202984	40.0000	42.5815
	5 Chlorotrifluoroethene	116	4.258	4.259	(0.521)	136919	10.0000	10.3575
	6 dichlorodifluoromethane	85	4.328	4.329	(0.530)	387193	10.0000	10.7039
	8 Chloromethane	50	4.565	4.581	(0.559)	309123	10.0000	10.3356
	9 Vinyl Chloride	62	4.719	4.734	(0.578)	324295	10.0000	10.5264
	10 2-Chloro-1,1,1-trifluoroethan	118	4.775	4.776	(0.585)	433004	10.0000	10.5048
	12 Bromomethane	94	5.110	5.111	(0.626)	256037	10.0000	10.8452
	13 Chloroethane	64	5.180	5.181	(0.634)	274273	10.0000	10.4315
	15 Trichlorofluoromethane	101	5.473	5.474	(0.670)	542322	10.0000	10.5260
	16 Ethanol	45	5.459	5.460	(0.669)	58503	500.000	495.187
	20 Acrolein	56	5.766	5.768	(0.706)	176673	100.000	102.550
	22 Acetone	43	5.878	5.865	(0.720)	120620	40.0000	38.9975
	24 1,1-Dichloroethene	96	5.920	5.935	(0.725)	392444	10.0000	10.5056
	25 Iodomethane	142	6.107	6.115	(0.748)	479932	10.0000	10.5812
	26 Acetonitrile	41	6.121	6.115	(0.750)	120469	100.000	108.115(H)
	30 tert-Butyl alcohol	59	6.214	6.222	(0.761)	199241	200.000	217.581(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31	Methylene Chloride	84	6.278	6.279	(0.769)	329611	10.0000	10.2036
32	Acrylonitrile	53	6.429	6.429	(0.787)	409592	100.000	106.993
34	trans-1,2-Dichloroethene	96	6.500	6.501	(0.796)	399640	10.0000	10.4128
37	Isopropyl ether	87	6.772	6.773	(0.829)	1364329	50.0000	54.0419
38	1,1-Dichloroethane	63	6.829	6.830	(0.836)	665803	10.0000	10.6287
39	Chloroprene	53	6.901	6.901	(0.845)	714029	10.0000	10.7413
42	2-Butanone	43	7.215	7.209	(0.884)	192879	40.0000	41.3388
45	cis-1,2-Dichloroethene	96	7.272	7.273	(0.891)	397884	10.0000	10.4628
44	Propionitrile	54	7.272	7.273	(0.891)	145417	100.000	106.148
46	2,2-Dichloropropane	77	7.301	7.302	(0.894)	536229	10.0000	10.4834
47	Methacrylonitrile	41	7.401	7.402	(0.906)	750688	100.000	106.249
48	Bromochloromethane	128	7.480	7.473	(0.916)	122879	10.0000	10.3951
49	Chloroform	83	7.480	7.481	(0.916)	583430	10.0000	10.6630
53	1,1,1-Trichloroethane	97	7.708	7.702	(0.944)	557757	10.0000	10.4436
52	Isobutanol	41	7.673	7.666	(0.940)	73228	200.000	212.914
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	589442	10.0000	10.5076
56	Carbon Tetrachloride	117	7.851	7.852	(0.961)	480532	10.0000	10.5621
58	1,2-Dichloroethane	62	7.973	7.974	(0.976)	285102	10.0000	10.3936
60	Benzene	78	7.994	7.995	(0.979)	1594112	10.0000	10.7626
62	n-Butanol	56	8.173	8.174	(1.001)	97890	200.000	194.780
63	Trichloroethene	95	8.445	8.446	(1.034)	397291	10.0000	10.5283
66	1,2-Dichloropropane	63	8.631	8.632	(1.057)	333568	10.0000	10.5617
68	1,4-Dioxane	88	8.681	8.675	(1.063)	54573	500.000	522.107
69	Dibromomethane	93	8.738	8.732	(1.070)	112327	10.0000	10.6737
70	Bromodichloromethane	83	8.802	8.796	(1.078)	351546	10.0000	10.8994
73	cis-1,3-Dichloropropene	75	9.117	9.118	(1.116)	451936	10.0000	10.8080
74	4-Methyl-2-pentanone	43	9.167	9.161	(1.123)	450824	40.0000	42.2345
76	Toluene	91	9.396	9.397	(1.151)	1710426	10.0000	10.5677
78	trans-1,3-Dichloropropene	75	9.496	9.490	(1.163)	326875	10.0000	10.6235
79	1,1,2-Trichloroethane	97	9.660	9.661	(1.183)	164493	10.0000	10.6448
80	2-Hexanone	43	9.768	9.769	(0.933)	303616	40.0000	41.9190
81	1,3-Dichloropropane	76	9.803	9.804	(0.936)	317294	10.0000	10.7096
82	Tetrachloroethene	164	9.832	9.826	(0.939)	318553	10.0000	10.5120
83	Dibromochloromethane	129	10.011	10.005	(0.956)	188628	10.0000	10.2070
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	145069	10.0000	10.3491
86	1-Chlorohexane	91	10.361	10.362	(0.990)	627284	10.0000	10.6285
88	Chlorobenzene	112	10.490	10.491	(1.002)	968556	10.0000	10.8233
89	1,1,1,2-Tetrachloroethane	131	10.526	10.527	(1.005)	282070	10.0000	10.7856
90	Ethylbenzene	106	10.526	10.527	(1.005)	618819	10.0000	10.6881
91	m and p-Xylene	106	10.604	10.605	(1.013)	1514203	20.0000	21.4501
92	o-Xylene	106	10.940	10.941	(1.045)	696637	10.0000	10.5936
93	Styrene	104	10.940	10.941	(1.045)	1056401	10.0000	10.8114
94	Bromoform	173	11.169	11.163	(1.067)	79380	10.0000	10.8120
95	isopropyl benzene	105	11.212	11.213	(0.903)	1793824	10.0000	10.5952
97	Cyclohexanone	55	11.362	11.363	(1.085)	143291	400.000	404.930
99	1,1,2,2-Tetrachloroethane	83	11.434	11.435	(0.921)	158356	10.0000	10.6805
101	1,2,3-Trichloropropane	110	11.512	11.513	(0.927)	46249	10.0000	11.4910
103	Bromobenzene	156	11.570	11.570	(0.931)	318822	10.0000	10.4857
102	n-Propylbenzene	120	11.555	11.556	(0.930)	545871	10.0000	10.4959
105	2-Chlorotoluene	126	11.691	11.692	(0.941)	407249	10.0000	10.4586
104	1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	1562898	10.0000	10.6629
106	4-Chlorotoluene	126	11.777	11.778	(0.948)	406531	10.0000	10.5179
107	tert-Butylbenzene	119	11.991	11.992	(0.965)	1588230	10.0000	10.5193
108	1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	1523998	10.0000	10.5922

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 sec-Butylbenzene	134	12.184	12.185	(0.981)	437928	10.0000	10.5459
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	1771039	10.0000	10.6906
111 1,3-Dichlorobenzene	146	12.370	12.371	(0.996)	693690	10.0000	10.5571
113 1,4-dichlorobenzene	146	12.449	12.450	(1.002)	655160	10.0000	10.3494
115 n-Butylbenzene	91	12.685	12.679	(1.021)	1754427	10.0000	10.6238
116 1,2-Dichlorobenzene	146	12.842	12.843	(1.034)	554870	10.0000	10.5145
117 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	21353	10.0000	10.0496
118 1,2,4-Trichlorobenzene	180	14.723	14.724	(1.185)	369154	10.0000	10.3550
119 Hexachlorobutadiene	225	14.880	14.881	(1.198)	271757	10.0000	10.7884
120 Naphthalene	128	15.137	15.138	(1.219)	519024	10.0000	10.5357
121 1,2,3-Trichlorobenzene	180	15.495	15.496	(1.248)	288243	10.0000	10.4070

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: E4606.D

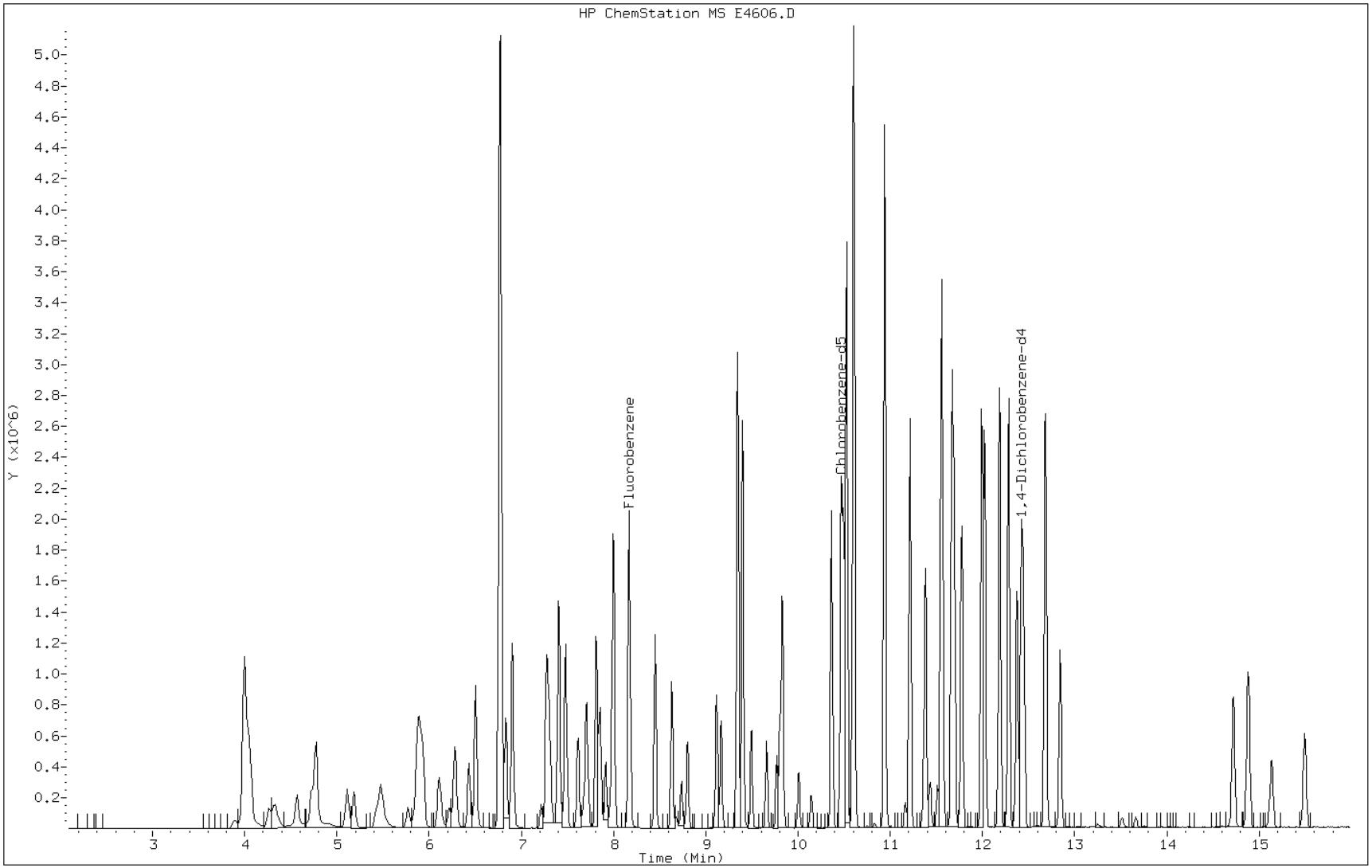
Date: 28-NOV-2011 11:35

Client ID: IC

Instrument: E.i

Sample Info: IC,,M10

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4607.D
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Inj Date : 28-NOV-2011 11:55
Operator : MEIERG Inst ID: E.i
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Misc Info :
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Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
* 61	Fluorobenzene	96	8.166	8.166	(1.000)	1672344	12.5000		
* 87	Chlorobenzene-d5	119	10.469	10.469	(1.000)	382596	12.5000		
* 112	1,4-Dichlorobenzene-d4	152	12.420	12.421	(1.000)	512136	12.5000		(Q)
M 1	1,2-Dichloroethene (total)	96				2294434	60.0000	58.5152	
M 2	Xylene (total)	106				6209523	90.0000	87.9823	
M 3	1,3-Dichloropropene (total)	75				2308820	60.0000	61.9544	
M 4	Trihalomethanes (total)	83				3519400	120.000	123.604	
5	Chlorotrifluoroethene	116	4.258	4.259	(0.522)	406891	30.0000	28.8676	
6	dichlorodifluoromethane	85	4.328	4.329	(0.530)	1124714	30.0000	29.6562	
8	Chloromethane	50	4.566	4.581	(0.559)	895424	30.0000	29.1704	
9	Vinyl Chloride	62	4.719	4.734	(0.578)	932969	30.0000	29.5063	
10	2-Chloro-1,1,1-trifluoroethan	118	4.775	4.776	(0.585)	1211051	30.0000	28.6264	
12	Bromomethane	94	5.110	5.111	(0.626)	722309	30.0000	29.8103	
13	Chloroethane	64	5.180	5.181	(0.634)	793922	30.0000	29.4206	
15	Trichlorofluoromethane	101	5.474	5.474	(0.670)	1578970	30.0000	29.8600	
16	Ethanol	45	5.460	5.460	(0.669)	188242	1500.00	1552.45	
20	Acrolein	56	5.767	5.768	(0.706)	543531	300.000	307.397	
22	Acetone	43	5.865	5.865	(0.718)	362730	120.000	120.297	
24	1,1-Dichloroethene	96	5.920	5.935	(0.725)	1016344	30.0000	26.5091	
25	Iodomethane	142	6.107	6.115	(0.748)	1389044	30.0000	29.8386	
26	Acetonitrile	41	6.121	6.115	(0.750)	340064	300.000	297.360	
30	tert-Butyl alcohol	59	6.214	6.222	(0.761)	582535	600.000	619.831	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
31 Methylene Chloride	84	6.279	6.279	(0.769)	914686	30.0000	27.5889
32 Acrylonitrile	53	6.429	6.429	(0.787)	1200237	300.000	305.477
34 trans-1,2-Dichloroethene	96	6.500	6.501	(0.796)	1155803	30.0000	29.3421
37 Isopropyl ether	87	6.772	6.773	(0.829)	3828984	150.000	147.776
38 1,1-Dichloroethane	63	6.829	6.830	(0.836)	1889820	30.0000	29.3944
39 Chloroprene	53	6.901	6.901	(0.845)	2007470	30.0000	29.4239
42 2-Butanone	43	7.208	7.209	(0.883)	575826	120.000	120.246
45 cis-1,2-Dichloroethene	96	7.272	7.273	(0.891)	1138631	30.0000	29.1731
44 Propionitrile	54	7.272	7.273	(0.891)	430619	300.000	306.266
46 2,2-Dichloropropane	77	7.301	7.302	(0.894)	1516724	30.0000	28.8913
47 Methacrylonitrile	41	7.401	7.402	(0.906)	2186315	300.000	301.500
48 Bromochloromethane	128	7.473	7.473	(0.915)	358260	30.0000	29.5296
49 Chloroform	83	7.480	7.481	(0.916)	1671043	30.0000	29.7568
53 1,1,1-Trichloroethane	97	7.709	7.702	(0.944)	1606285	30.0000	29.3046
52 Isobutanol	41	7.673	7.666	(0.940)	199641	600.000	565.569
55 1,1-Dichloropropene	75	7.809	7.809	(0.956)	1681021	30.0000	29.1974
56 Carbon Tetrachloride	117	7.852	7.852	(0.961)	1407352	30.0000	30.1396
58 1,2-Dichloroethane	62	7.973	7.974	(0.976)	812365	30.0000	29.2291
60 Benzene	78	7.995	7.995	(0.979)	4440292	30.0000	29.2091
62 n-Butanol	56	8.173	8.174	(1.001)	283237	600.000	549.117
63 Trichloroethene	95	8.445	8.446	(1.034)	1138991	30.0000	29.4089
66 1,2-Dichloropropane	63	8.631	8.632	(1.057)	956294	30.0000	29.5019
68 1,4-Dioxane	88	8.681	8.675	(1.063)	172800	1500.00	1610.77
69 Dibromomethane	93	8.731	8.732	(1.069)	323456	30.0000	29.9471
70 Bromodichloromethane	83	8.803	8.796	(1.078)	1033281	30.0000	31.2139
73 cis-1,3-Dichloropropene	75	9.117	9.118	(1.116)	1333797	30.0000	31.0792
74 4-Methyl-2-pentanone	43	9.160	9.161	(1.122)	1332376	120.000	121.617
76 Toluene	91	9.396	9.397	(1.151)	4716933	30.0000	28.3951
78 trans-1,3-Dichloropropene	75	9.489	9.490	(1.162)	975023	30.0000	30.8752
79 1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	477860	30.0000	30.1301
80 2-Hexanone	43	9.768	9.769	(0.933)	897720	120.000	121.148
81 1,3-Dichloropropane	76	9.804	9.804	(0.936)	911256	30.0000	30.0635
82 Tetrachloroethene	164	9.825	9.826	(0.939)	928383	30.0000	29.9446
83 Dibromochloromethane	129	10.011	10.005	(0.956)	567976	30.0000	29.7358
85 1,2-Dibromoethane	107	10.140	10.140	(0.969)	436270	30.0000	30.4209
86 1-Chlorohexane	91	10.361	10.362	(0.990)	1780530	30.0000	29.4880
88 Chlorobenzene	112	10.490	10.491	(1.002)	2735631	30.0000	29.8799
89 1,1,1,2-Tetrachloroethane	131	10.526	10.527	(1.005)	837891	30.0000	31.3158
90 Ethylbenzene	106	10.526	10.527	(1.005)	1750693	30.0000	29.5553
91 m and p-Xylene	106	10.604	10.605	(1.013)	4240145	60.0000	58.7102
92 o-Xylene	106	10.940	10.941	(1.045)	1969378	30.0000	29.2721
93 Styrene	104	10.940	10.941	(1.045)	3013465	30.0000	30.1443
94 Bromoform	173	11.162	11.163	(1.066)	247100	30.0000	32.8970
95 isopropyl benzene	105	11.212	11.213	(0.903)	4955286	30.0000	28.9838
97 Cyclohexanone	55	11.362	11.363	(1.085)	453209	1200.00	1251.84
99 1,1,2,2-Tetrachloroethane	83	11.434	11.435	(0.921)	471361	30.0000	31.4824
101 1,2,3-Trichloropropane	110	11.512	11.513	(0.927)	127672	30.0000	31.4128
103 Bromobenzene	156	11.570	11.570	(0.931)	919300	30.0000	29.9406
102 n-Propylbenzene	120	11.555	11.556	(0.930)	1550638	30.0000	29.5254
105 2-Chlorotoluene	126	11.691	11.692	(0.941)	1176759	30.0000	29.9266
104 1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	4355685	30.0000	29.4276
106 4-Chlorotoluene	126	11.777	11.778	(0.948)	1161525	30.0000	29.7591
107 tert-Butylbenzene	119	11.991	11.992	(0.965)	4478501	30.0000	29.3740
108 1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	4259190	30.0000	29.3145

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
109 sec-Butylbenzene	134	12.185	12.185	(0.981)	1246465	30.0000	29.7246
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	4884979	30.0000	29.2005
111 1,3-Dichlorobenzene	146	12.370	12.371	(0.996)	1964858	30.0000	29.6119
113 1,4-dichlorobenzene	146	12.449	12.450	(1.002)	1875484	30.0000	29.3384
115 n-Butylbenzene	91	12.678	12.679	(1.021)	4806600	30.0000	28.8229
116 1,2-Dichlorobenzene	146	12.842	12.843	(1.034)	1561029	30.0000	29.2931
117 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	67244	30.0000	31.3400
118 1,2,4-Trichlorobenzene	180	14.723	14.724	(1.185)	1058509	30.0000	29.4031
119 Hexachlorobutadiene	225	14.880	14.881	(1.198)	756625	30.0000	29.7450
120 Naphthalene	128	15.138	15.138	(1.219)	1478645	30.0000	29.7231
121 1,2,3-Trichlorobenzene	180	15.495	15.496	(1.248)	814875	30.0000	29.1350

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: E4607.D

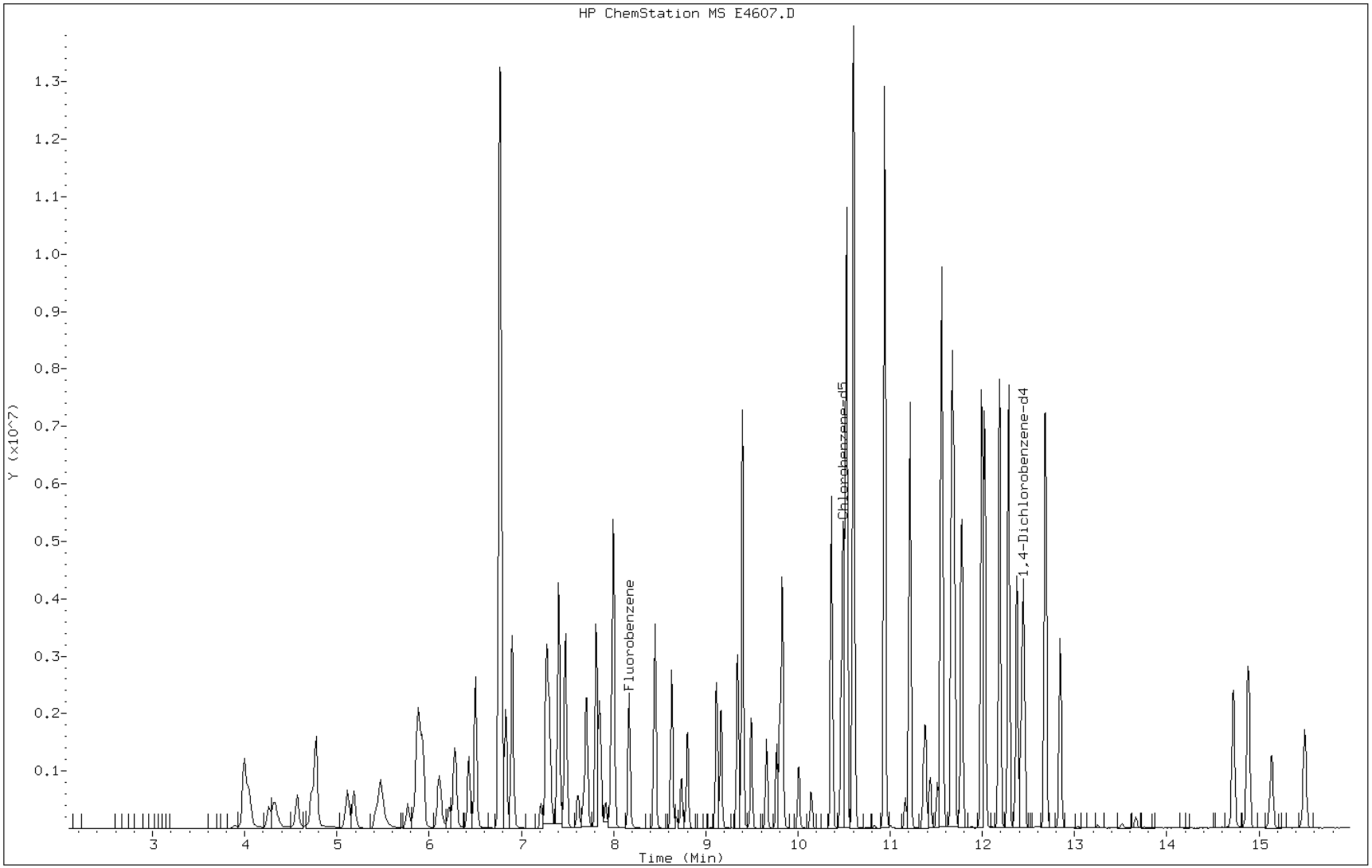
Date: 28-NOV-2011 11:55

Client ID: IC

Instrument: E.i

Sample Info: IC,,M30

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4608.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 12:14
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,M60
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	61 Fluorobenzene	96	8.167	8.166	(1.000)	1644487	12.5000	
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	392369	12.5000	
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	530774	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				4585299	120.000	118.919
M	2 Xylene (total)	106				12190245	180.000	168.515
M	3 1,3-Dichloropropene (total)	75				4682802	120.000	127.925
M	4 Trihalomethanes (total)	83				7127781	240.000	253.657
	5 Chlorotrifluoroethene	116	4.259	4.259	(0.522)	851101	60.0000	60.7381(A)
	6 dichlorodifluoromethane	85	4.329	4.329	(0.530)	2239429	60.0000	59.6914
	8 Chloromethane	50	4.581	4.581	(0.561)	1782614	60.0000	59.0563
	9 Vinyl Chloride	62	4.734	4.734	(0.580)	1850322	60.0000	59.5099
	10 2-Chloro-1,1,1-trifluoroethan	118	4.776	4.776	(0.585)	2440239	60.0000	58.6586
	12 Bromomethane	94	5.111	5.111	(0.626)	1400029	60.0000	58.7592
	13 Chloroethane	64	5.181	5.181	(0.634)	1528272	60.0000	57.5930
	15 Trichlorofluoromethane	101	5.474	5.474	(0.670)	3177313	60.0000	61.1041(A)
	16 Ethanol	45	5.460	5.460	(0.669)	398151	3000.00	3339.21(A)
	20 Acrolein	56	5.768	5.768	(0.706)	1129603	600.000	649.676(A)
	22 Acetone	43	5.865	5.865	(0.718)	718529	240.000	245.502(A)
	24 1,1-Dichloroethene	96	5.935	5.935	(0.727)	2329670	60.0000	61.7936(A)
	25 Iodomethane	142	6.115	6.115	(0.749)	2838356	60.0000	62.0047(A)
	26 Acetonitrile	41	6.115	6.115	(0.749)	714731	600.000	635.564(A)
	30 tert-Butyl alcohol	59	6.222	6.222	(0.762)	1214786	1200.00	1314.46(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31	Methylene Chloride	84	6.279	6.279	(0.769)	1846562	60.0000	56.6398
32	Acrylonitrile	53	6.429	6.429	(0.787)	2444949	600.000	632.816(A)
34	trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	2315057	60.0000	59.7674
37	Isopropyl ether	87	6.773	6.773	(0.829)	7351582	300.000	288.534
38	1,1-Dichloroethane	63	6.830	6.830	(0.836)	3719714	60.0000	58.8369
39	Chloroprene	53	6.901	6.901	(0.845)	3961627	60.0000	59.0500
42	2-Butanone	43	7.209	7.209	(0.883)	1155091	240.000	245.297(A)
45	cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	2270242	60.0000	59.1516
44	Propionitrile	54	7.273	7.273	(0.891)	880846	600.000	637.091(A)
46	2,2-Dichloropropane	77	7.302	7.302	(0.894)	2997624	60.0000	58.0675
47	Methacrylonitrile	41	7.402	7.402	(0.906)	4357141	600.000	611.043(A)
48	Bromochloromethane	128	7.473	7.473	(0.915)	745194	60.0000	62.4632(A)
49	Chloroform	83	7.481	7.481	(0.916)	3302125	60.0000	59.7980
53	1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	3251186	60.0000	60.3185(A)
52	Isobutanol	41	7.666	7.666	(0.939)	417512	1200.00	1202.82(A)
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	3300408	60.0000	58.2952
56	Carbon Tetrachloride	117	7.852	7.852	(0.961)	2853952	60.0000	62.1552(A)
58	1,2-Dichloroethane	62	7.974	7.974	(0.976)	1650927	60.0000	60.6313(A)
60	Benzene	78	7.995	7.995	(0.979)	8570528	60.0000	57.3336
62	n-Butanol	56	8.174	8.174	(1.001)	592698	1200.00	1168.54
63	Trichloroethene	95	8.446	8.446	(1.034)	2299320	60.0000	60.3745(A)
66	1,2-Dichloropropane	63	8.632	8.632	(1.057)	1937281	60.0000	60.7780(A)
68	1,4-Dioxane	88	8.675	8.675	(1.062)	358256	3000.00	3396.09(A)
69	Dibromomethane	93	8.732	8.732	(1.069)	665922	60.0000	62.6987(A)
70	Bromodichloromethane	83	8.796	8.796	(1.077)	2110079	60.0000	64.8222(A)
73	cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	2688845	60.0000	63.7148(A)
74	4-Methyl-2-pentanone	43	9.161	9.161	(1.122)	2645621	240.000	245.579(A)
76	Toluene	91	9.397	9.397	(1.151)	8949316	60.0000	54.7859
78	trans-1,3-Dichloropropene	75	9.490	9.490	(1.162)	1993957	60.0000	64.2105(A)
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	980953	60.0000	62.8989(A)
80	2-Hexanone	43	9.769	9.769	(0.933)	1826560	240.000	240.355(A)
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	1851705	60.0000	59.5685
82	Tetrachloroethene	164	9.826	9.826	(0.939)	1927517	60.0000	60.6227(A)
83	Dibromochloromethane	129	10.005	10.005	(0.956)	1187181	60.0000	60.4425(A)
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	904055	60.0000	61.4692(A)
86	1-Chlorohexane	91	10.362	10.362	(0.990)	3588635	60.0000	57.9523
88	Chlorobenzene	112	10.491	10.491	(1.002)	5521747	60.0000	58.8091
89	1,1,1,2-Tetrachloroethane	131	10.527	10.527	(1.005)	1733229	60.0000	63.1651(A)
90	Ethylbenzene	106	10.527	10.527	(1.005)	3560109	60.0000	58.6050
91	m and p-Xylene	106	10.605	10.605	(1.013)	8228702	120.000	111.099
92	o-Xylene	106	10.941	10.941	(1.045)	3961543	60.0000	57.4162
93	Styrene	104	10.941	10.941	(1.045)	6025071	60.0000	58.7688
94	Bromoform	173	11.163	11.163	(1.066)	528396	60.0000	68.5945(A)
95	isopropyl benzene	105	11.213	11.213	(0.903)	9575691	60.0000	54.0421
97	Cyclohexanone	55	11.363	11.363	(1.085)	915168	2400.00	2464.88(A)
99	1,1,2,2-Tetrachloroethane	83	11.435	11.435	(0.921)	980148	60.0000	63.1657(A)
101	1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	270953	60.0000	64.3252(A)
103	Bromobenzene	156	11.570	11.570	(0.931)	1961654	60.0000	61.6455(A)
102	n-Propylbenzene	120	11.556	11.556	(0.930)	3217665	60.0000	59.1156
105	2-Chlorotoluene	126	11.692	11.692	(0.941)	2436499	60.0000	59.7877
104	1,3,5-Trimethylbenzene	105	11.671	11.671	(0.940)	8579988	60.0000	55.9321
106	4-Chlorotoluene	126	11.778	11.778	(0.948)	2431055	60.0000	60.0982(A)
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	9000061	60.0000	56.9576
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	8492418	60.0000	56.3979

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 sec-Butylbenzene	134	12.185	12.185	(0.981)	2599120	60.0000	59.8051
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	9682694	60.0000	55.8470
111 1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	4160840	60.0000	60.5051(A)
113 1,4-dichlorobenzene	146	12.450	12.450	(1.002)	4007573	60.0000	60.4894(A)
115 n-Butylbenzene	91	12.679	12.679	(1.021)	9510899	60.0000	55.0296
116 1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	3335231	60.0000	60.3888(A)
117 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	150807	60.0000	67.8176(A)
118 1,2,4-Trichlorobenzene	180	14.724	14.724	(1.185)	2373055	60.0000	63.6037(A)
119 Hexachlorobutadiene	225	14.881	14.881	(1.198)	1714824	60.0000	65.0473(A)
120 Naphthalene	128	15.138	15.138	(1.219)	3311289	60.0000	64.2248(A)
121 1,2,3-Trichlorobenzene	180	15.496	15.496	(1.248)	1848210	60.0000	63.7604(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: E4608.D

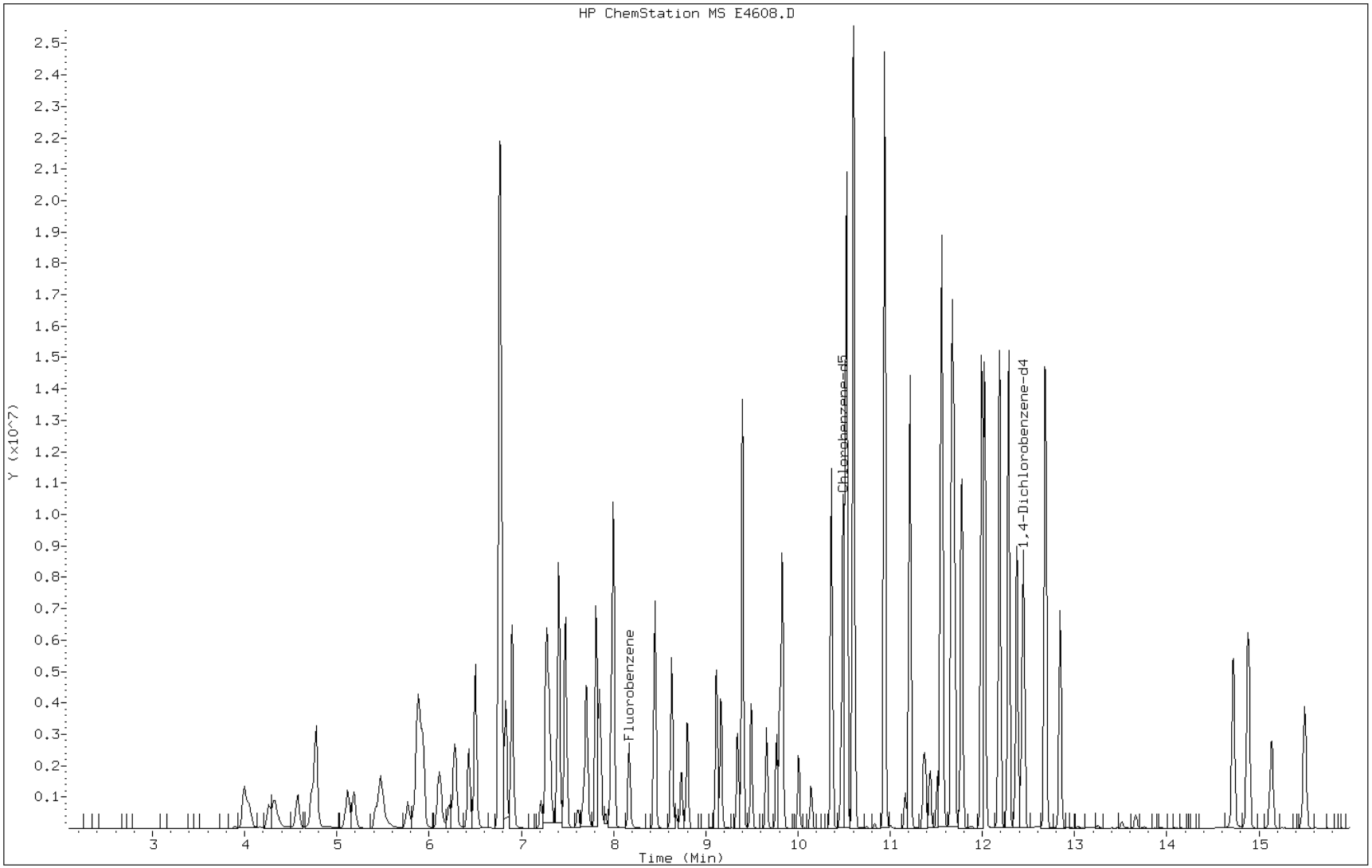
Date: 28-NOV-2011 12:14

Client ID: IC

Instrument: E.i

Sample Info: IC,,M60

Operator: MEIERG



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 13:31 Calibration End Date: 11/28/2011 15:06 Calibration ID: 7918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-97801/12	E4612.D
Level 2	IC 280-97801/13	E4613.D
Level 3	IC 280-97801/14	E4614.D
Level 4	ICIS 280-97801/15	E4615.D
Level 5	IC 280-97801/16	E4616.D
Level 6	IC 280-97801/17	E4617.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.0854	0.0770	0.0948	0.0988	0.0982	Ave		0.0908				10.4		15.0			
Ethylene oxide	0.0053 +++++	0.0058	0.0059	0.0062	0.0055	Ave		0.0058				6.4		15.0			
Dichlorofluoromethane	0.5790 0.5059	0.5426	0.5745	0.5901	0.5709	Ave		0.5605				5.5		15.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.3209 0.2922	0.3170	0.3261	0.3326	0.3243	Ave		0.3188				4.4		15.0			
Ethyl ether	0.1470 0.1246	0.1391	0.1429	0.1442	0.1396	Ave		0.1396				5.6		15.0			
2,2-Dichloro-1,1,1-trifluoroethane	0.4600 0.4101	0.4669	0.4656	0.4796	0.4612	Ave		0.4572				5.3		15.0			
1,1,2-Trichlorotrifluoroethane	0.2410 0.2412	0.2292	0.2486	0.2597	0.2525	Ave		0.2453				4.3		15.0			
2-Propanol	0.0051 0.0044	0.0050	0.0053	0.0049	0.0051	Ave		0.0050				6.2		15.0			
Methyl acetate	0.0633 0.0559	0.0592	0.0639	0.0628	0.0626	Ave		0.0613				5.0		15.0			
Allyl chloride	0.4771 0.4392	0.4698	0.4774	0.5000	0.4889	Ave		0.4754				4.3		15.0			
Carbon disulfide	1.1283 1.0501	1.0954	1.1844	1.2262	1.1768	Ave		1.1435				5.7		15.0			
Methyl tert-butyl ether	0.4022 0.3649	0.3953	0.4039	0.4161	0.4082	Ave		0.3984				4.5		15.0			
Hexane	2.4162 2.4185	2.3520	2.4847	2.5628	2.4302	Ave		2.4441				2.9		15.0			
Vinyl acetate	0.2281 0.1774	0.2169	0.2267	0.2217	0.2186	Ave		0.2149				8.8		15.0			
Tert-butyl ethyl ether	0.5839 0.4245	0.5791	0.6046	0.6038	0.5486	Ave		0.5574				12.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 13:31 Calibration End Date: 11/28/2011 15:06 Calibration ID: 7918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0735	0.0807	0.0836	0.0827	0.0815	Ave		0.0804				5.0		15.0			
Tetrahydrofuran	+++++ 0.0219	0.0237	0.0240	0.0254	0.0245	Ave		0.0239				5.4		15.0			
Cyclohexane	0.6414 0.5529	0.6187	0.6435	0.6609	0.6263	Ave		0.6239				6.1		15.0			
Tert-amyl methyl ether	0.4543 0.3487	0.4468	0.4662	0.4639	0.4354	Ave		0.4359				10.1		15.0			
2-Pentanone	0.0553 0.0531	0.0563	0.0580	0.0585	0.0587	Ave		0.0566				3.8		15.0			
Methyl methacrylate	0.0244 0.0260	0.0258	0.0276	0.0286	0.0288	Ave		0.0269				6.6		15.0			
Methylcyclohexane	0.5044 0.4344	0.4954	0.5096	0.5213	0.4984	Ave		0.4939				6.2		15.0			
2-Chloroethyl vinyl ether	+++++ 0.0634	0.0606	0.0637	0.0672	0.0692	Ave		0.0648				5.2		15.0			
2-Nitropropane	0.0240 +++++	0.0246	0.0209	0.0218	0.0219	Ave		0.0226				6.9		15.0			
Ethyl methacrylate	+++++ 0.7100	0.6248	0.6697	0.6920	0.6896	Ave		0.6772				4.8		15.0			
Tetrahydrothiophene	+++++ 0.3685	0.3198	0.3262	0.3499	0.3553	Ave		0.3439				5.9		15.0			
cis-1,4-Dichloro-2-butene	+++++ 0.1126	0.0898	0.0947	0.1054	0.1023	Ave		0.1010				8.9		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1109	0.0914	0.0901	0.1036	0.1021	Ave		0.0996				8.8		15.0			
1,2,3-Trimethylbenzene	3.3247 3.3579	3.2068	3.2514	3.3283	3.2810	Ave		3.2917				1.7		15.0			
Dibromofluoromethane (Surr)	0.2248 0.1875	0.2099	0.1998	0.2092	0.2131	Ave		0.2074				6.1		15.0			
1,2-Dichloroethane-d4 (Surr)	0.1848 0.1487	0.1747	0.1652	0.1718	0.1673	Ave		0.1687				7.1		15.0			
Toluene-d8 (Surr)	5.1061 4.3571	4.8075	4.5317	4.7253	4.5692	Ave		4.6828				5.6		15.0			
4-Bromofluorobenzene (Surr)	1.2074 1.0751	1.0830	1.0077	1.0583	1.0381	Ave		1.0783				6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 13:31 Calibration End Date: 11/28/2011 15:06 Calibration ID: 7918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-97801/12	E4612.D
Level 2	IC 280-97801/13	E4613.D
Level 3	IC 280-97801/14	E4614.D
Level 4	ICIS 280-97801/15	E4615.D
Level 5	IC 280-97801/16	E4616.D
Level 6	IC 280-97801/17	E4617.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	FB	Ave	+++++ 757404	20455	64792	130839	387384	+++++ 60.0	2.00	5.00	10.0	30.0
Ethylene oxide	FB	Ave	88629 +++++	194320	506604	1030824	2695178	125 +++++	250	625	1250	3750
Dichlorofluoromethane	FB	Ave	77298 4489740	144220	392677	781067	2252345	1.00 60.0	2.00	5.00	10.0	30.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	42841 2592856	84249	222900	440242	1279275	1.00 60.0	2.00	5.00	10.0	30.0
Ethyl ether	FB	Ave	19621 1105929	36977	97684	190818	550595	1.00 60.0	2.00	5.00	10.0	30.0
2,2-Dichloro-1,1,1-trifluoroethane	FB	Ave	61405 3639075	124102	318212	634867	1819495	1.00 60.0	2.00	5.00	10.0	30.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	32169 2140561	60905	169923	343709	995986	1.00 60.0	2.00	5.00	10.0	30.0
2-Propanol	FB	Ave	13528 782921	26358	72684	129096	405633	20.0 1200	40.0	100	200	600
Methyl acetate	FB	Ave	42263 2482160	78730	218294	415543	1235270	5.00 300	10.0	25.0	50.0	150
Allyl chloride	FB	Ave	63690 3897068	124874	326316	661814	1928889	1.00 60.0	2.00	5.00	10.0	30.0
Carbon disulfide	FB	Ave	150624 9318156	291140	809498	1623135	4642629	1.00 60.0	2.00	5.00	10.0	30.0
Methyl tert-butyl ether	FB	Ave	53695 3238129	105065	276045	550737	1610392	1.00 60.0	2.00	5.00	10.0	30.0
Hexane	CBZ	Ave	73141 4214413	140954	382103	756334	2135243	1.00 60.0	2.00	5.00	10.0	30.0
Vinyl acetate	FB	Ave	60907 3147846	115284	309870	586843	1724666	2.00 120	4.00	10.0	20.0	60.0
Tert-butyl ethyl ether	FB	Ave	389733 18833777	769573	2065932	3996506	10821958	5.00 300	10.0	25.0	50.0	150
Ethyl acetate	FB	Ave	+++++ 1303951	42915	114293	218993	642831	+++++ 120	4.00	10.0	20.0	60.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23017-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 13:31 Calibration End Date: 11/28/2011 15:06 Calibration ID: 7918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Tetrahydrofuran	FB	Ave	+++++ 389157	12579	32869	67247	193688	+++++ 120	4.00	10.0	20.0	60.0
Cyclohexane	FB	Ave	85623 4906699	164434	439803	874867	2470636	1.00 60.0	2.00	5.00	10.0	30.0
Tert-amyl methyl ether	FB	Ave	303221 15470183	593784	1593079	3070582	8588550	5.00 300	10.0	25.0	50.0	150
2-Pentanone	FB	Ave	29544 1886262	59824	158518	309648	925906	4.00 240	8.00	20.0	40.0	120
Methyl methacrylate	FB	Ave	6502 460599	13733	37791	75748	227625	2.00 120	4.00	10.0	20.0	60.0
Methylcyclohexane	FB	Ave	67341 3854637	131678	348309	690025	1966028	1.00 60.0	2.00	5.00	10.0	30.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 562958	16117	43523	89010	272820	+++++ 60.0	2.00	5.00	10.0	30.0
2-Nitropropane	FB	Ave	3208 +++++	6525	14300	28796	86562	1.00 +++++	2.00	5.00	10.0	30.0
Ethyl methacrylate	CBZ	Ave	+++++ 2474312	74884	205980	408455	1211798	+++++ 120	4.00	10.0	20.0	60.0
Tetrahydrothiophene	CBZ	Ave	+++++ 642056	19166	50160	103258	312151	+++++ 60.0	2.00	5.00	10.0	30.0
cis-1,4-Dichloro-2-butene	DCB	Ave	+++++ 259668	7048	20010	40355	120837	+++++ 60.0	2.00	5.00	10.0	30.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 255733	7175	19036	39651	120545	+++++ 60.0	2.00	5.00	10.0	30.0
1,2,3-Trimethylbenzene	DCB	Ave	137222 7743011	251792	687152	1273951	3875420	1.00 60.0	2.00	5.00	10.0	30.0
Dibromofluoromethane (Surr)	FB	Ave	30010 1663469	55791	136526	276958	840582	1.00 60.0	2.00	5.00	10.0	30.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	24671 1319553	46430	112899	227363	659940	1.00 60.0	2.00	5.00	10.0	30.0
Toluene-d8 (Surr)	CBZ	Ave	154563 7592505	288114	696898	1394502	4014669	1.00 60.0	2.00	5.00	10.0	30.0
4-Bromofluorobenzene (Surr)	DCB	Ave	49833 2479076	85031	212957	405069	1226184	1.00 60.0	2.00	5.00	10.0	30.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4612.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 13:31
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,S1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1668724	12.5000	
* 87 Chlorobenzene-d5	119	10.468	10.468	(1.000)	378382	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.420	12.420	(1.000)	515918	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.615	7.615	(0.933)	30010	1.00000	1.08403
$ 57 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	24671	1.00000	1.09521
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	154563	1.00000	1.09038
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	49833	1.00000	1.11976
7 1,2-Dichlorotetrafluoroethane	85	4.498	4.498	(0.551)	9173	1.00000	0.756492(a)
11 Ethylene Oxide	43	5.043	5.043	(0.618)	88629	125.000	115.318(a)
14 Dichlorofluoromethane	67	5.336	5.336	(0.653)	77298	1.00000	1.03300(a)
17 1,2-dichloro-1,1,2-trifluoro	117	5.587	5.587	(0.684)	42841	1.00000	1.00647(a)
18 Ethyl Ether	59	5.615	5.615	(0.688)	19621	1.00000	1.05312(a)
19 2,2-dichloro-1,1,1-trifluoro	83	5.629	5.629	(0.689)	61405	1.00000	1.00598(a)
21 Trichlorotrifluoroethane	151	5.881	5.881	(0.720)	32169	1.00000	0.982153(a)
23 2-propanol	45	5.881	5.881	(0.720)	13528	20.0000	20.4225(aQ)
27 Methyl Acetate	43	6.114	6.114	(0.749)	42263	5.00000	5.16457
28 Allyl Chloride	41	6.178	6.178	(0.757)	63690	1.00000	1.00353(a)
29 Carbon Disulfide	76	6.200	6.200	(0.759)	150624	1.00000	0.986663(a)
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	53695	1.00000	1.00950(a)
35 Hexane	57	6.664	6.664	(0.637)	73141	1.00000	0.988613(a)
36 Vinyl acetate	43	6.757	6.757	(0.828)	60907	2.00000	2.12317(a)
40 ETBE	59	7.058	7.058	(0.864)	389733	5.00000	5.23738

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	24730	2.00000	2.30398(aQ)
43 2-Butanol	45	7.244	7.244	(0.887)	22111	30.0000	28.0330
50 Tetrahydrofuran	42	7.508	7.508	(0.919)	7524	2.00000	2.35646(a)
54 Cyclohexane	56	7.780	7.780	(0.953)	85623	1.00000	1.02794(a)
59 TAME	73	7.973	7.973	(0.976)	303221	5.00000	5.21093
64 2-Pentanone	43	8.481	8.481	(1.039)	29544	4.00000	3.90678(a)
67 Methyl Cyclohexane	55	8.638	8.638	(1.058)	67341	1.00000	1.02129
65 Methyl Methacrylate	100	8.566	8.566	(1.049)	6502	2.00000	1.81228(a)
72 2-nitropropane	41	8.938	8.938	(1.095)	3208	1.00000	1.06141(a)
71 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	8365	1.00000	0.966501(a)
77 Ethyl methacrylate	69	9.467	9.467	(0.904)	36825	2.00000	1.79638(a)
84 Tetrahydrothiophene	60	10.061	10.061	(0.961)	9462	1.00000	0.908881(a)
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	3954	1.00000	0.948909(aQ)
100 t-1,4-Dichloro-2-butene	53	11.469	11.469	(0.923)	3602	1.00000	0.876210(a)
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	137222	1.00000	1.01002

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4612.D

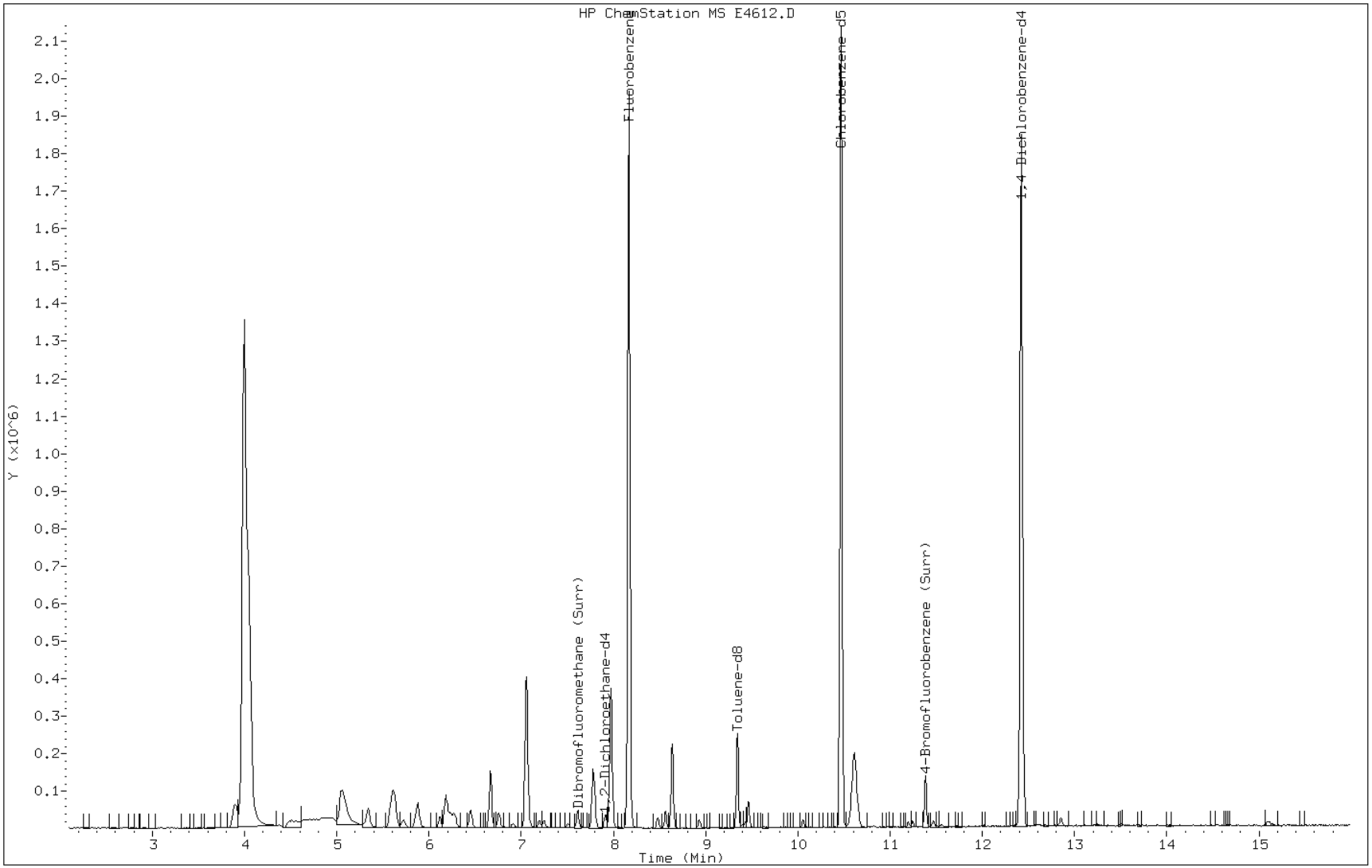
Date: 28-NOV-2011 13:31

Client ID: IC

Instrument: E.i

Sample Info: IC,,S1.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4613.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 13:50
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,S2.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 13:31 Cal File: E4612.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.167	8.167	(1.000)	1661107	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	374561	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	490731	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.932)	55791	2.00000	2.02454
$ 57 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	46430	2.00000	2.07060
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	288114	2.00000	2.05327
$ 98 4-Bromofluorobenzene (Surr)	95	11.377	11.377	(0.916)	85031	2.00000	2.00874
7 1,2-Dichlorotetrafluoroethane	85	4.497	4.497	(0.551)	20455	2.00000	1.69465(aQ)
11 Ethylene Oxide	43	5.056	5.056	(0.619)	194320	250.000	253.995(a)
14 Dichlorofluoromethane	67	5.335	5.335	(0.653)	144220	2.00000	1.93617(a)
17 1,2-dichloro-1,1,2-trifluoro	117	5.601	5.601	(0.686)	84249	2.00000	1.98836(a)
18 Ethyl Ether	59	5.615	5.615	(0.688)	36977	2.00000	1.99376(a)
19 2,2-dichloro-1,1,1-trifluoro	83	5.629	5.629	(0.689)	124102	2.00000	2.04245
21 Trichlorotrifluoroethane	151	5.880	5.880	(0.720)	60905	2.00000	1.86802(a)
23 2-propanol	45	5.880	5.880	(0.720)	26358	40.0000	39.9738(a)
27 Methyl Acetate	43	6.115	6.115	(0.749)	78730	10.0000	9.66498
28 Allyl Chloride	41	6.179	6.179	(0.757)	124874	2.00000	1.97659(a)
29 Carbon Disulfide	76	6.229	6.229	(0.763)	291140	2.00000	1.91586(a)
33 Methyl t-butyl ether	73	6.451	6.451	(0.790)	105065	2.00000	1.98434(a)
35 Hexane	57	6.665	6.665	(0.637)	140954	2.00000	1.92464(a)
36 Vinyl acetate	43	6.758	6.758	(0.828)	115284	4.00000	4.03715
40 ETBE	59	7.058	7.058	(0.864)	769573	10.0000	10.3892

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	42915	4.00000	4.01653(aQ)
43 2-Butanol	45	7.244	7.244	(0.887)	40443	60.0000	51.5100
50 Tetrahydrofuran	42	7.509	7.509	(0.919)	12579	4.00000	3.95771(aQ)
54 Cyclohexane	56	7.781	7.781	(0.953)	164434	2.00000	1.98315(a)
59 TAME	73	7.974	7.974	(0.976)	593784	10.0000	10.2511
64 2-Pentanone	43	8.474	8.474	(1.038)	59824	8.00000	7.94717
67 Methyl Cyclohexane	55	8.639	8.639	(1.058)	131678	2.00000	2.00617
65 Methyl Methacrylate	100	8.567	8.567	(1.049)	13733	4.00000	3.84532(a)
72 2-nitropropane	41	8.932	8.932	(1.094)	6525	2.00000	2.16878(a)
71 2-Chloroethyl vinyl ether	63	8.932	8.932	(1.094)	16117	2.00000	1.87071(aQ)
77 Ethyl methacrylate	69	9.461	9.461	(0.904)	74884	4.00000	3.69023
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	19166	2.00000	1.85979(a)
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	7048	2.00000	1.77824(aQ)
100 t-1,4-Dichloro-2-butene	53	11.463	11.463	(0.923)	7175	2.00000	1.83495(a)
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	251792	2.00000	1.94844

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4613.D

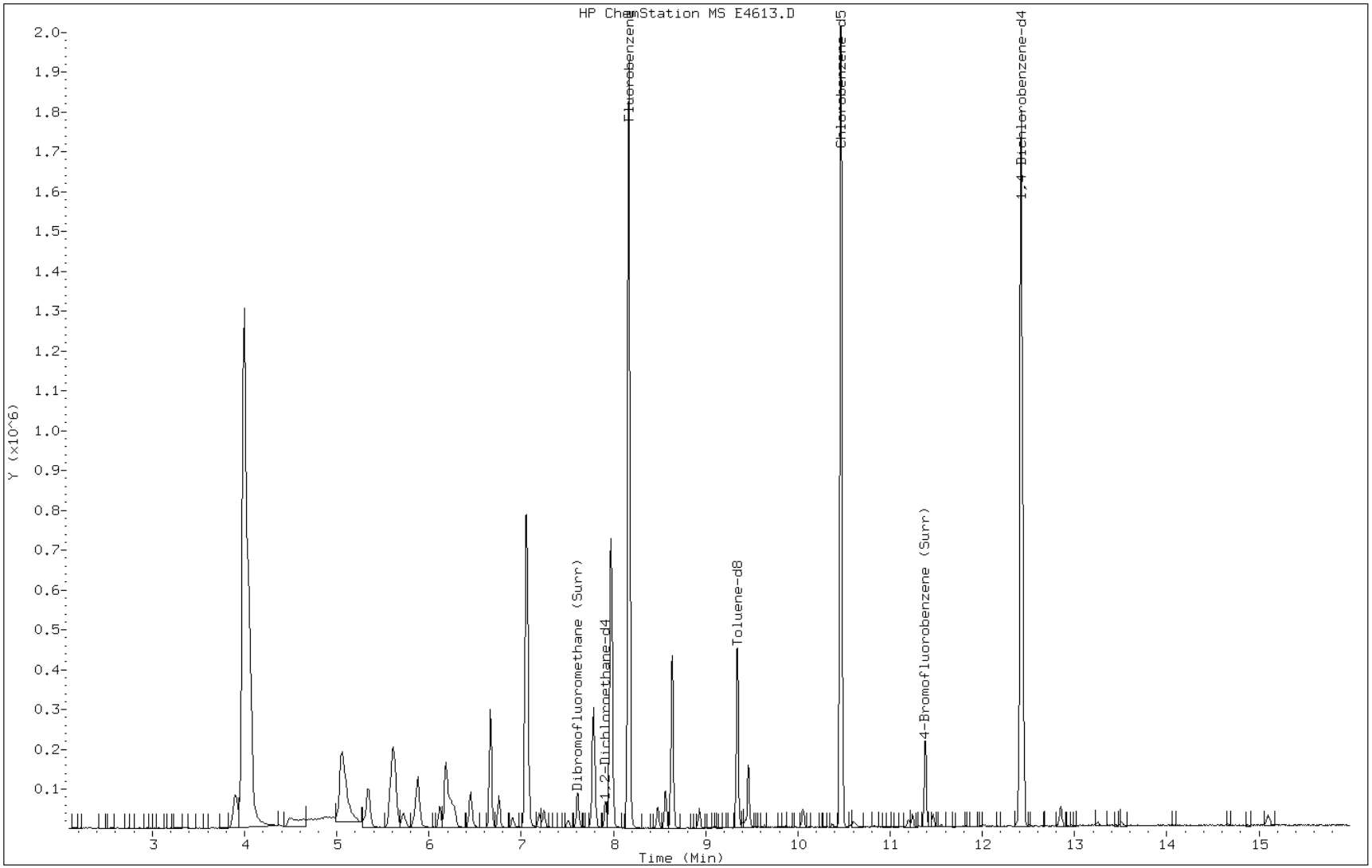
Date: 28-NOV-2011 13:50

Client ID: IC

Instrument: E.i

Sample Info: IC,,S2.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4614.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 14:09
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,S5.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 13:50 Cal File: E4613.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1708647	12.5000	
* 87 Chlorobenzene-d5	119	10.468	10.468	(1.000)	384454	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.420	12.420	(1.000)	528343	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.615	7.615	(0.933)	136526	5.00000	4.81641
$ 57 1,2-Dichloroethane-d4	65	7.916	7.916	(0.969)	112899	5.00000	4.89477
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	696898	5.00000	4.83870
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	212957	5.00000	4.67268
7 1,2-Dichlorotetrafluoroethane	85	4.496	4.496	(0.551)	64792	5.00000	5.21851
11 Ethylene Oxide	43	5.055	5.055	(0.619)	506604	625.000	643.756
14 Dichlorofluoromethane	67	5.348	5.348	(0.655)	392677	5.00000	5.12506
17 1,2-dichloro-1,1,2-trifluoro	117	5.599	5.599	(0.686)	222900	5.00000	5.11428
18 Ethyl Ether	59	5.613	5.613	(0.687)	97684	5.00000	5.12048
19 2,2-dichloro-1,1,1-trifluoro	83	5.641	5.641	(0.691)	318212	5.00000	5.09136
21 Trichlorotrifluoroethane	151	5.879	5.879	(0.720)	169923	5.00000	5.06671
23 2-propanol	45	5.879	5.879	(0.720)	72684	100.000	107.163
27 Methyl Acetate	43	6.114	6.114	(0.749)	218294	25.0000	26.0524
28 Allyl Chloride	41	6.178	6.178	(0.757)	326316	5.00000	5.02145
29 Carbon Disulfide	76	6.236	6.236	(0.764)	809498	5.00000	5.17872
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	276045	5.00000	5.06854
35 Hexane	57	6.665	6.665	(0.637)	382103	5.00000	5.08314
36 Vinyl acetate	43	6.757	6.757	(0.828)	309870	10.0000	10.5495
40 ETBE	59	7.058	7.058	(0.864)	2065932	25.0000	27.1141

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	114293	10.0000	10.3994
43 2-Butanol	45	7.244	7.244	(0.887)	126269	150.000	156.347
50 Tetrahydrofuran	42	7.508	7.508	(0.919)	32869	10.0000	10.0538
54 Cyclohexane	56	7.780	7.780	(0.953)	439803	5.00000	5.15664
59 TAME	73	7.973	7.973	(0.976)	1593079	25.0000	26.7378
64 2-Pentanone	43	8.481	8.481	(1.039)	158518	20.0000	20.4720
67 Methyl Cyclohexane	55	8.638	8.638	(1.058)	348309	5.00000	5.15899
65 Methyl Methacrylate	100	8.566	8.566	(1.049)	37791	10.0000	10.2873
72 2-nitropropane	41	8.938	8.938	(1.095)	14300	5.00000	4.62080
71 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	43523	5.00000	4.91120
77 Ethyl methacrylate	69	9.467	9.467	(0.904)	205980	10.0000	9.88934
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	50160	5.00000	4.74207
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	20010	5.00000	4.68921
100 t-1,4-Dichloro-2-butene	53	11.462	11.462	(0.923)	19036	5.00000	4.52173
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	687152	5.00000	4.93885

Data File: E4614.D

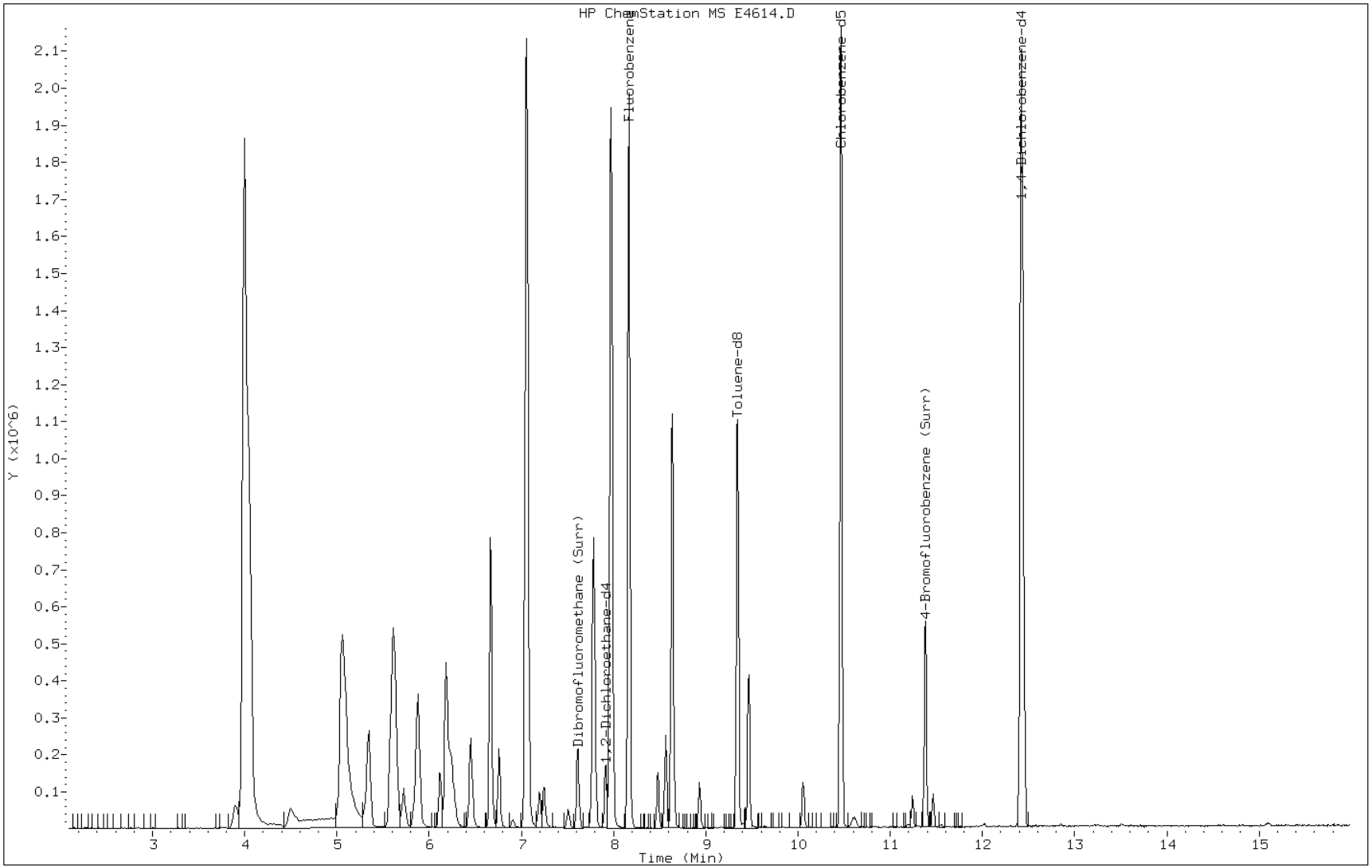
Date: 28-NOV-2011 14:09

Client ID: IC

Instrument: E.i

Sample Info: IC,,S5.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4615.D
Lab Smp Id: ICIS Client Smp ID: ICIS
Inj Date : 28-NOV-2011 14:28
Operator : MEIERG Inst ID: E.i
Smp Info : ICIS,,S10
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 14:09 Cal File: E4614.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1654639	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	368895	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	478447	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.932)	276958	10.0000	10.0895
$ 57 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	227363	10.0000	10.1791
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	1394502	10.0000	10.0907
$ 98 4-Bromofluorobenzene (Surr)	95	11.377	11.377	(0.916)	405069	10.0000	9.81489
7 1,2-Dichlorotetrafluoroethane	85	4.496	4.496	(0.551)	130839	10.0000	10.8821
11 Ethylene Oxide	43	5.054	5.054	(0.619)	1030824	1250.00	1352.65
14 Dichlorofluoromethane	67	5.348	5.348	(0.655)	781067	10.0000	10.5269
17 1,2-dichloro-1,1,2-trifluoro	117	5.599	5.599	(0.686)	440242	10.0000	10.4307
18 Ethyl Ether	59	5.613	5.613	(0.687)	190818	10.0000	10.3289
19 2,2-dichloro-1,1,1-trifluoro	83	5.641	5.641	(0.691)	634867	10.0000	10.4894
21 Trichlorotrifluoroethane	151	5.878	5.878	(0.720)	343709	10.0000	10.5831
23 2-propanol	45	5.878	5.878	(0.720)	129096	200.000	196.548
27 Methyl Acetate	43	6.114	6.114	(0.749)	415543	50.0000	51.2119
28 Allyl Chloride	41	6.179	6.179	(0.757)	661814	10.0000	10.5166
29 Carbon Disulfide	76	6.236	6.236	(0.764)	1623135	10.0000	10.7229
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	550737	10.0000	10.4423
35 Hexane	57	6.665	6.665	(0.637)	756334	10.0000	10.4859
36 Vinyl acetate	43	6.758	6.758	(0.828)	586843	20.0000	20.6311
40 ETBE	59	7.058	7.058	(0.864)	3996506	50.0000	54.1637

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	218993	20.0000	20.5763
43 2-Butanol	45	7.244	7.244	(0.887)	245904	300.000	314.418
50 Tetrahydrofuran	42	7.509	7.509	(0.919)	67247	20.0000	21.2405
54 Cyclohexane	56	7.780	7.780	(0.953)	874867	10.0000	10.5925
59 TAME	73	7.973	7.973	(0.976)	3070582	50.0000	53.2179
64 2-Pentanone	43	8.474	8.474	(1.038)	309648	40.0000	41.2952
67 Methyl Cyclohexane	55	8.638	8.638	(1.058)	690025	10.0000	10.5539
65 Methyl Methacrylate	100	8.567	8.567	(1.049)	75748	20.0000	21.2928
72 2-nitropropane	41	8.939	8.939	(1.095)	28796	10.0000	9.60864
71 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	89010	10.0000	10.3718
77 Ethyl methacrylate	69	9.468	9.468	(0.904)	408455	20.0000	20.4375
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	103258	10.0000	10.1736
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	40355	10.0000	10.4432
100 t-1,4-Dichloro-2-butene	53	11.463	11.463	(0.923)	39651	10.0000	10.4008
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	1273951	10.0000	10.1113

Data File: E4615.D

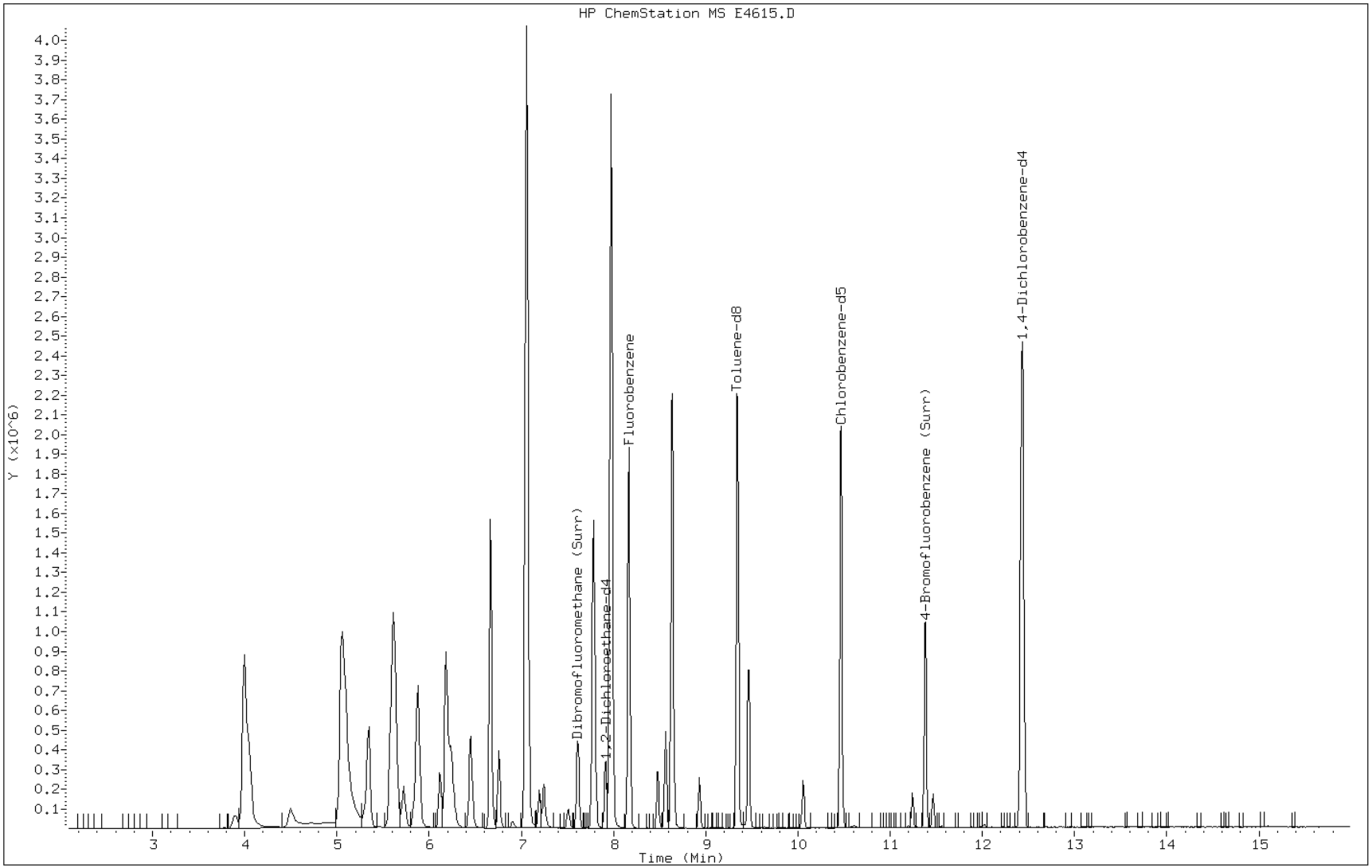
Date: 28-NOV-2011 14:28

Client ID: ICIS

Instrument: E.i

Sample Info: ICIS,,S10

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4616.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 14:47
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,S30
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 14:28 Cal File: E4615.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.167	8.167	(1.000)	1643755	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	366102	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	492157	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.932)	840582	30.0000	30.8250
$ 57 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	659940	30.0000	29.7414
$ 75 Toluene-d8	98	9.339	9.339	(0.892)	4014669	30.0000	29.2720
$ 98 4-Bromofluorobenzene (Surr)	95	11.377	11.377	(0.916)	1226184	30.0000	28.8830
7 1,2-Dichlorotetrafluoroethane	85	4.482	4.482	(0.549)	387384	30.0000	32.4326
11 Ethylene Oxide	43	5.041	5.041	(0.617)	2695178	3750.00	3560.04
14 Dichlorofluoromethane	67	5.334	5.334	(0.653)	2252345	30.0000	30.5572
17 1,2-dichloro-1,1,2-trifluoro	117	5.600	5.600	(0.686)	1279275	30.0000	30.5108
18 Ethyl Ether	59	5.614	5.614	(0.687)	550595	30.0000	30.0009
19 2,2-dichloro-1,1,1-trifluoro	83	5.628	5.628	(0.689)	1819495	30.0000	30.2610
21 Trichlorotrifluoroethane	151	5.879	5.879	(0.720)	995986	30.0000	30.8704
23 2-propanol	45	5.879	5.879	(0.720)	405633	600.000	621.665
27 Methyl Acetate	43	6.115	6.115	(0.749)	1235270	150.000	153.244
28 Allyl Chloride	41	6.172	6.172	(0.756)	1928889	30.0000	30.8541
29 Carbon Disulfide	76	6.229	6.229	(0.763)	4642629	30.0000	30.8735
33 Methyl t-butyl ether	73	6.444	6.444	(0.789)	1610392	30.0000	30.7362
35 Hexane	57	6.665	6.665	(0.637)	2135243	30.0000	29.8292
36 Vinyl acetate	43	6.751	6.751	(0.827)	1724666	60.0000	61.0339
40 ETBE	59	7.051	7.051	(0.863)	10821958	150.000	147.638

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	642831	60.0000	60.7994
43 2-Butanol	45	7.244	7.244	(0.887)	756489	900.000	973.669
50 Tetrahydrofuran	42	7.502	7.502	(0.919)	193688	60.0000	61.5831
54 Cyclohexane	56	7.781	7.781	(0.953)	2470636	30.0000	30.1115
59 TAME	73	7.974	7.974	(0.976)	8588550	150.000	149.838
64 2-Pentanone	43	8.474	8.474	(1.038)	925906	120.000	124.298
67 Methyl Cyclohexane	55	8.631	8.631	(1.057)	1966028	30.0000	30.2695
65 Methyl Methacrylate	100	8.560	8.560	(1.048)	227625	60.0000	64.4091
72 2-nitropropane	41	8.932	8.932	(1.094)	86562	30.0000	29.0752
71 2-Chloroethyl vinyl ether	63	8.925	8.925	(1.093)	272820	30.0000	32.0007
77 Ethyl methacrylate	69	9.461	9.461	(0.904)	1211798	60.0000	61.0963
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	312151	30.0000	30.9897
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	120837	30.0000	30.3994
100 t-1,4-Dichloro-2-butene	53	11.463	11.463	(0.923)	120545	30.0000	30.7391
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	3875420	30.0000	29.9023

Data File: E4616.D

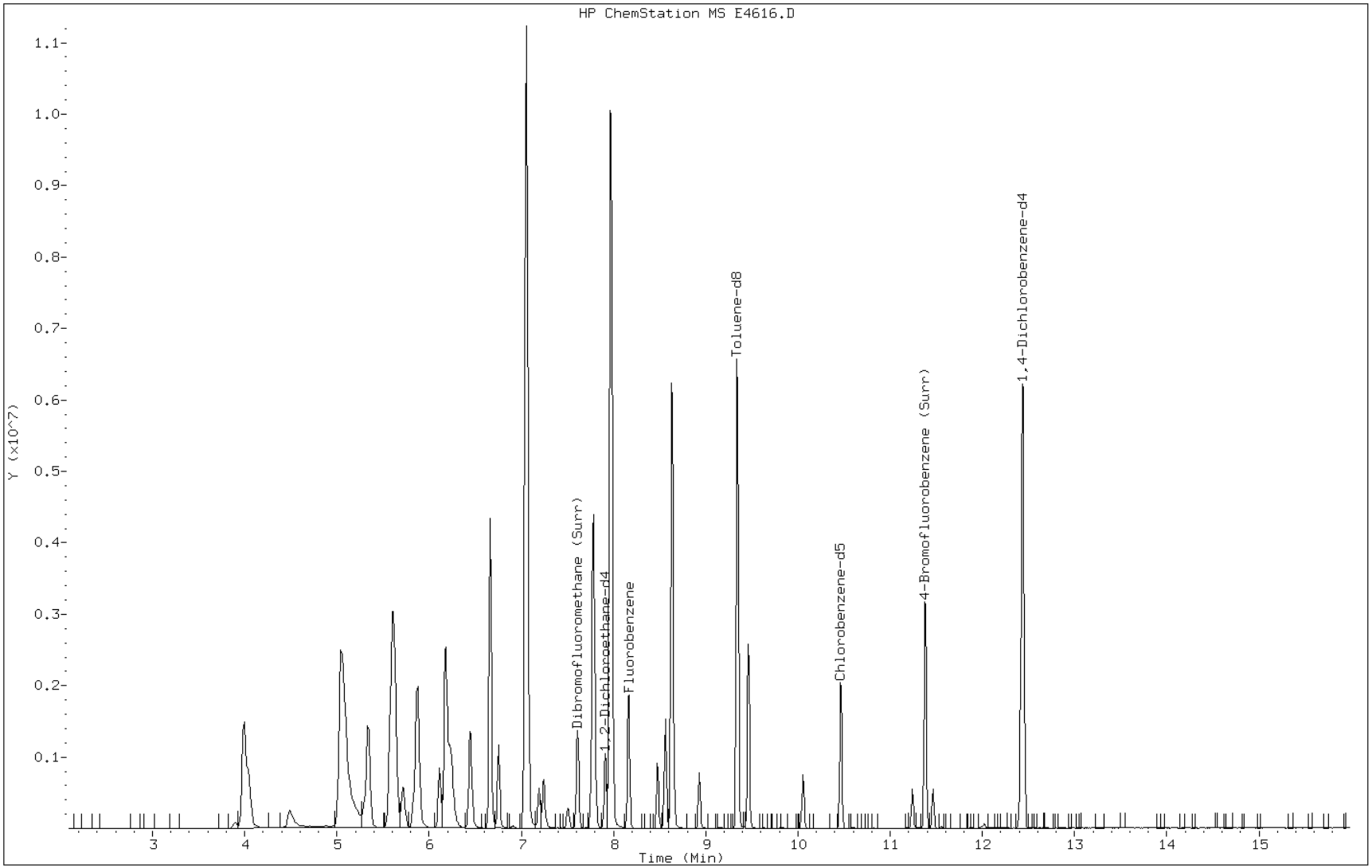
Date: 28-NOV-2011 14:47

Client ID: IC

Instrument: E.i

Sample Info: IC,,S30

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4617.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 15:06
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,S60
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 14:47 Cal File: E4616.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1848729	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	363035	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	480400	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.932)	1663469	60.0000	54.2378
$ 57 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	1319553	60.0000	52.8747
$ 75 Toluene-d8	98	9.339	9.339	(0.892)	7592505	60.0000	55.8265
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	2479076	60.0000	59.8242
7 1,2-Dichlorotetrafluoroethane	85	4.482	4.482	(0.549)	757404	60.0000	56.3809
11 Ethylene Oxide	43	5.041	5.041	(0.617)	4882725	7500.00	5734.48
14 Dichlorofluoromethane	67	5.334	5.334	(0.653)	4489740	60.0000	54.1582
17 1,2-dichloro-1,1,2-trifluoro	117	5.599	5.599	(0.686)	2592856	60.0000	54.9835
18 Ethyl Ether	59	5.613	5.613	(0.687)	1105929	60.0000	53.5789
19 2,2-dichloro-1,1,1-trifluoro	83	5.627	5.627	(0.689)	3639075	60.0000	53.8131
21 Trichlorotrifluoroethane	151	5.879	5.879	(0.720)	2140561	60.0000	58.9903
23 2-propanol	45	5.879	5.879	(0.720)	782921	1200.00	1066.85
27 Methyl Acetate	43	6.114	6.114	(0.749)	2482160	300.000	273.788
28 Allyl Chloride	41	6.171	6.171	(0.756)	3897068	60.0000	55.4252
29 Carbon Disulfide	76	6.229	6.229	(0.763)	9318156	60.0000	55.0955
33 Methyl t-butyl ether	73	6.443	6.443	(0.789)	3238129	60.0000	54.9511
35 Hexane	57	6.658	6.658	(0.636)	4214413	60.0000	59.3724
36 Vinyl acetate	43	6.751	6.751	(0.827)	3147846	120.000	99.0474
40 ETBE	59	7.051	7.051	(0.863)	18833777	300.000	228.452

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
41	Ethyl Acetate	43	7.187	7.187	(0.880)	1303951	120.000	109.655
43	2-Butanol	45	7.244	7.244	(0.887)	1524560	1800.00	1744.68(A)
50	Tetrahydrofuran	42	7.501	7.501	(0.919)	389157	120.000	110.014
54	Cyclohexane	56	7.780	7.780	(0.953)	4906699	60.0000	53.1713
59	TAME	73	7.973	7.973	(0.976)	15470183	300.000	239.973
64	2-Pentanone	43	8.474	8.474	(1.038)	1886262	240.000	225.146
67	Methyl Cyclohexane	55	8.631	8.631	(1.057)	3854637	60.0000	52.7671
65	Methyl Methacrylate	100	8.560	8.560	(1.048)	460599	120.000	115.881
72	2-nitropropane	41	8.931	8.931	(1.094)	178297	60.0000	53.2481
71	2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	562958	60.0000	58.7116
77	Ethyl methacrylate	69	9.460	9.460	(0.904)	2474312	120.000	125.803(A)
84	Tetrahydrothiophene	60	10.054	10.054	(0.960)	642056	60.0000	64.2804(A)
96	cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	259668	60.0000	66.9244(A)
100	t-1,4-Dichloro-2-butene	53	11.463	11.463	(0.923)	255733	60.0000	66.8081(A)
114	1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	7743011	60.0000	61.2063(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: E4617.D

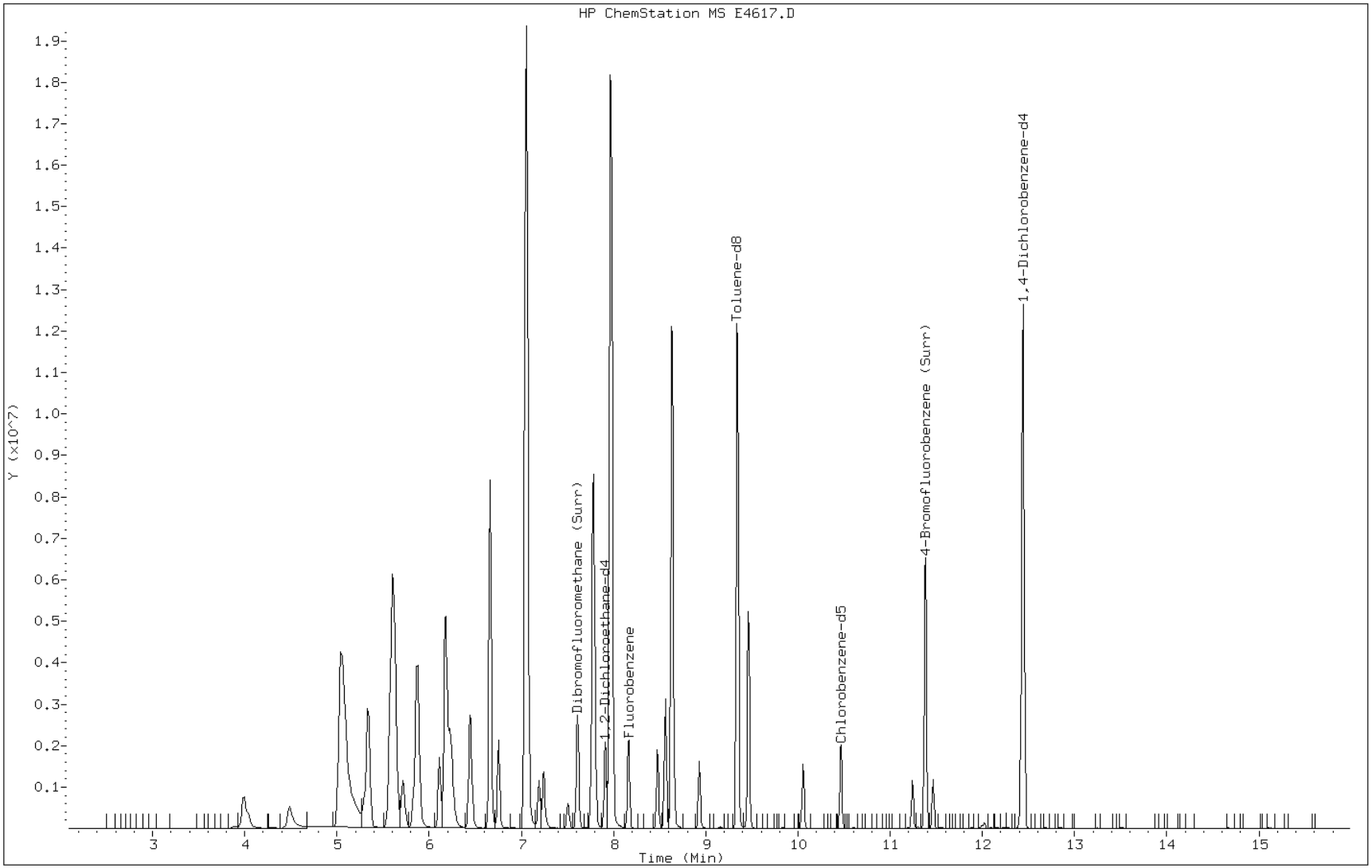
Date: 28-NOV-2011 15:06

Client ID: IC

Instrument: E.i

Sample Info: IC,,S60

Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Lab Sample ID: ICV 280-97801/10 Calibration Date: 11/28/2011 12:52

Instrument ID: MSV_E Calib Start Date: 11/28/2011 10:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 12:14

Lab File ID: E4610.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.2964	0.3023		20.6	20.0	2.0	35.0
Xylenes, Total	Ave	2.284	2.323		30.2	30.0	1.7	35.0
Chlorotrifluoroethene	Lin1	0.0879	0.1026		10.1	10.0	1.3	35.0
Dichlorodifluoromethane	Lin1	0.2560	0.2428		8.81	10.0	-11.9	55.0
Chloromethane	Ave	0.2294	0.2144	0.1000	9.35	10.0	-6.5	35.0
Vinyl chloride	Ave	0.2363	0.2345		9.92	10.0	-0.8	35.0
2-Chloro-1,1,1-Trifluoroetha ne	Ave	0.3162	0.3338		10.6	10.0	5.6	35.0
Bromomethane	Ave	0.1811	0.1721		9.50	10.0	-5.0	35.0
Chloroethane	Ave	0.2017	0.1942		9.63	10.0	-3.7	35.0
Trichlorofluoromethane	Ave	0.3952	0.3696		9.35	10.0	-6.5	50.0
Acrolein	Ave	0.0132	0.0099		75.2	100	-24.8	55.0
Acetone	Lin2	0.0272	0.0243		41.1	40.0	2.7	55.0
1,1-Dichloroethene	Ave	0.2866	0.3414		11.9	10.0	19.1	35.0
Iodomethane	Ave	0.3480	0.3542		10.2	10.0	1.8	35.0
Methylene Chloride	Ave	0.2478	0.2545		10.3	10.0	2.7	35.0
Acrylonitrile	Ave	0.0294	0.0238		81.1	100	-18.9	55.0
trans-1,2-Dichloroethene	Ave	0.2944	0.3085		10.5	10.0	4.8	35.0
1,1-Dichloroethane	Ave	0.4806	0.5060	0.1000	10.5	10.0	5.3	35.0
2-Butanone (MEK)	Ave	0.0358	0.0339		37.9	40.0	-5.2	55.0
cis-1,2-Dichloroethene	Ave	0.2917	0.2960		10.1	10.0	1.5	35.0
2,2-Dichloropropane	Ave	0.3924	0.4030		10.3	10.0	2.7	35.0
Bromochloromethane	Ave	0.0907	0.0908		10.0	10.0	0.2	35.0
Chloroform	Ave	0.4197	0.4289		10.2	10.0	2.2	35.0
1,1,1-Trichloroethane	Ave	0.4097	0.4009		9.79	10.0	-2.1	35.0
1,1-Dichloropropene	Ave	0.4303	0.4361		10.1	10.0	1.3	35.0
Carbon tetrachloride	Ave	0.3490	0.3560		10.2	10.0	2.0	35.0
1,2-Dichloroethane	Lin1	0.2384	0.2114		10.0	10.0	0.4	35.0
Benzene	Ave	1.136	1.182		10.4	10.0	4.0	35.0
Trichloroethene	Ave	0.2895	0.3012		10.4	10.0	4.1	35.0
1,2-Dichloropropane	Ave	0.2423	0.2454		10.1	10.0	1.3	35.0
Dibromomethane	Ave	0.0807	0.0797		9.87	10.0	-1.3	35.0
Bromodichloromethane	Ave	0.2474	0.2592		10.5	10.0	4.7	35.0
cis-1,3-Dichloropropene	Ave	0.3208	0.3403		10.6	10.0	6.1	35.0
4-Methyl-2-pentanone	Ave	0.0819	0.0802		39.2	40.0	-2.1	55.0
Toluene	Ave	1.242	1.259		10.1	10.0	1.4	35.0
trans-1,3-Dichloropropene	Ave	0.2360	0.2445		10.4	10.0	3.6	35.0
1,1,2-Trichloroethane	Ave	0.1185	0.1211		10.2	10.0	2.2	35.0
2-Hexanone	Ave	0.2421	0.2448		40.4	40.0	1.1	55.0
1,3-Dichloropropane	Ave	0.9903	1.009		10.2	10.0	1.9	35.0
Tetrachloroethene	Ave	1.013	1.034		10.2	10.0	2.1	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Lab Sample ID: ICV 280-97801/10 Calibration Date: 11/28/2011 12:52

Instrument ID: MSV_E Calib Start Date: 11/28/2011 10:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 12:14

Lab File ID: E4610.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromochloromethane	Lin1	0.5545	0.6046		9.79	10.0	-2.1	35.0
1,2-Dibromoethane (EDB)	Ave	0.4685	0.4688		10.0	10.0	0.0	35.0
1-Chlorohexane	Ave	1.973	1.981		10.0	10.0	0.4	35.0
Chlorobenzene	Ave	2.991	3.103	0.3000	10.4	10.0	3.7	35.0
1,1,1,2-Tetrachloroethane	Ave	0.8742	0.8999		10.3	10.0	2.9	35.0
Ethylbenzene	Ave	1.935	1.979		10.2	10.0	2.3	35.0
m-Xylene & p-Xylene	Ave	2.360	2.384		20.2	20.0	1.0	35.0
o-Xylene	Ave	2.198	2.199		10.0	10.0	0.0	35.0
Styrene	Ave	3.266	3.424		10.5	10.0	4.8	35.0
Bromoform	Ave	0.2454	0.2658	0.1000	10.8	10.0	8.3	35.0
Isopropylbenzene	Ave	4.173	4.612		11.1	10.0	10.5	35.0
Cyclohexanone	Ave	0.0118	0.0117		248	250	-0.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3654	0.3825	0.3000	10.5	10.0	4.7	35.0
1,2,3-Trichloropropane	Ave	0.0992	0.1062		10.7	10.0	7.1	35.0
n-Propylbenzene	Ave	1.282	1.258		9.81	10.0	-1.9	35.0
Bromobenzene	Ave	0.7494	0.7504		10.0	10.0	0.1	35.0
1,3,5-Trimethylbenzene	Ave	3.613	3.620		10.0	10.0	0.2	35.0
2-Chlorotoluene	Ave	0.9597	0.9507		9.91	10.0	-0.9	35.0
4-Chlorotoluene	Ave	0.9527	0.9578		10.1	10.0	0.5	35.0
tert-Butylbenzene	Ave	3.721	3.710		9.97	10.0	-0.3	35.0
1,2,4-Trimethylbenzene	Ave	3.546	3.487		9.83	10.0	-1.7	35.0
sec-Butylbenzene	Ave	1.024	1.021		9.97	10.0	-0.3	35.0
4-Isopropyltoluene	Ave	4.083	4.031		9.87	10.0	-1.3	35.0
1,3-Dichlorobenzene	Ave	1.620	1.629		10.1	10.0	0.6	35.0
1,4-Dichlorobenzene	Ave	1.560	1.568		10.1	10.0	0.5	35.0
n-Butylbenzene	Ave	4.070	3.998		9.82	10.0	-1.8	35.0
1,2-Dichlorobenzene	Ave	1.301	1.302		10.0	10.0	0.0	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0524	0.0508		9.71	10.0	-2.9	55.0
1,2,4-Trichlorobenzene	Ave	0.8787	0.8502		9.68	10.0	-3.2	35.0
Hexachlorobutadiene	Ave	0.6209	0.6113		9.85	10.0	-1.5	35.0
Naphthalene	Ave	1.214	1.172		9.66	10.0	-3.4	35.0
1,2,3-Trichlorobenzene	Ave	0.6827	0.6411		9.39	10.0	-6.1	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4610.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 28-NOV-2011 12:52
Operator : MEIERG Inst ID: E.i
Smp Info : ICV,,A
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVmA+BO.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 61	Fluorobenzene	96	8.167	8.166	(1.000)	1661120	12.5000	
* 87	Chlorobenzene-d5	119	10.469	10.469	(1.000)	375079	12.5000	
* 112	1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	507473	12.5000	
M 1	1,2-Dichloroethene (total)	96				803408	20.6266	20.6266
M 2	Xylene (total)	106				2090694	30.2132	30.2132
M 3	1,3-Dichloropropene (total)	75				777168	20.9680	20.9680
M 4	Trihalomethanes (total)	83				1175502	41.3154	41.3154
5	Chlorotrifluoroethene	116	4.258	4.259	(0.521)	136376	10.1332	10.1332
6	dichlorodifluoromethane	85	4.327	4.329	(0.530)	322648	8.81306	8.81306
8	Chloromethane	50	4.565	4.581	(0.559)	284961	9.34596	9.34596
9	Vinyl Chloride	62	4.718	4.734	(0.578)	311677	9.92376	9.92376
10	2-Chloro-1,1,1-trifluoroethan	118	4.774	4.776	(0.585)	443600	10.5565	10.5565
12	Bromomethane	94	5.109	5.111	(0.626)	228677	9.50148	9.50148
13	Chloroethane	64	5.179	5.181	(0.634)	258027	9.62639	9.62639
15	Trichlorofluoromethane	101	5.473	5.474	(0.670)	491174	9.35137	9.35137
20	Acrolein	56	5.766	5.768	(0.706)	132108	75.2194	75.2194
22	Acetone	43	5.878	5.865	(0.720)	129068	41.0878	41.0878
24	1,1-Dichloroethene	96	5.933	5.935	(0.727)	453697	11.9136	11.9136
25	Iodomethane	142	6.108	6.115	(0.748)	470745	10.1806	10.1806
31	Methylene Chloride	84	6.279	6.279	(0.769)	338227	10.2706	10.2706
32	Acrylonitrile	53	6.429	6.429	(0.787)	316361	81.0624	81.0624
34	trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	410003	10.4790	10.4790

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
38	1,1-Dichloroethane	63	6.830	6.830	(0.836)	672481	10.5305	10.5305
42	2-Butanone	43	7.209	7.209	(0.883)	180352	37.9164	37.9164
45	cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	393405	10.1476	10.1476
46	2,2-Dichloropropane	77	7.302	7.302	(0.894)	535571	10.2708	10.2708
48	Bromochloromethane	128	7.480	7.473	(0.916)	120705	10.0164	10.0164
49	Chloroform	83	7.480	7.481	(0.916)	569936	10.2176	10.2176
53	1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	532797	9.78589	9.78589
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	579555	10.1342	10.1342
56	Carbon Tetrachloride	117	7.852	7.852	(0.961)	473129	10.2009	10.2009
60	Benzene	78	7.995	7.995	(0.979)	1570154	10.3986	10.3986
58	1,2-Dichloroethane	62	7.974	7.974	(0.976)	280883	10.0374	10.0374
63	Trichloroethene	95	8.446	8.446	(1.034)	400304	10.4058	10.4058
66	1,2-Dichloropropane	63	8.632	8.632	(1.057)	326123	10.1290	10.1290
69	Dibromomethane	93	8.739	8.732	(1.070)	105924	9.87322	9.87322
70	Bromodichloromethane	83	8.796	8.796	(1.077)	344399	10.4741	10.4741
73	cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	452202	10.6081	10.6081
74	4-Methyl-2-pentanone	43	9.161	9.161	(1.122)	426052	39.1522	39.1522
76	Toluene	91	9.397	9.397	(1.151)	1672737	10.1376	10.1376
78	trans-1,3-Dichloropropene	75	9.490	9.490	(1.162)	324966	10.3599	10.3599
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	160944	10.2164	10.2164
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	302676	10.1858	10.1858
82	Tetrachloroethene	164	9.826	9.826	(0.939)	310334	10.2103	10.2103
80	2-Hexanone	43	9.769	9.769	(0.933)	293759	40.4373	40.4373
83	Dibromochloromethane	129	10.004	10.005	(0.956)	181423	9.79438	9.79438
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	140668	10.0053	10.0053
86	1-Chlorohexane	91	10.362	10.362	(0.990)	594484	10.0428	10.0428
88	Chlorobenzene	112	10.491	10.491	(1.002)	931069	10.3734	10.3734
89	1,1,1,2-Tetrachloroethane	131	10.526	10.527	(1.005)	270027	10.2944	10.2944
90	Ethylbenzene	106	10.526	10.527	(1.005)	593820	10.2258	10.2258
91	m and p-Xylene	106	10.605	10.605	(1.013)	1430914	20.2099	20.2099
92	o-Xylene	106	10.941	10.941	(1.045)	659780	10.0033	10.0032
93	Styrene	104	10.941	10.941	(1.045)	1027533	10.4846	10.4846
94	Bromoform	173	11.163	11.163	(1.066)	79744	10.8293	10.8293
95	isopropyl benzene	105	11.213	11.213	(0.903)	1872205	11.0513	11.0513
97	Cyclohexanone	55	11.363	11.363	(1.085)	88056	248.099	248.099
99	1,1,2,2-Tetrachloroethane	83	11.435	11.435	(0.921)	155292	10.4673	10.4673
103	Bromobenzene	156	11.570	11.570	(0.931)	304633	10.0127	10.0127
101	1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	43122	10.7074	10.7074
102	n-Propylbenzene	120	11.556	11.556	(0.930)	510570	9.81100	9.81100
105	2-Chlorotoluene	126	11.692	11.692	(0.941)	385950	9.90542	9.90542
104	1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	1469809	10.0215	10.0215
106	4-Chlorotoluene	126	11.771	11.778	(0.948)	388850	10.0542	10.0542
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	1506022	9.96860	9.96860
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	1415847	9.83433	9.83433
109	sec-Butylbenzene	134	12.185	12.185	(0.981)	414456	9.97440	9.97440
110	4-Isopropyltoluene	119	12.285	12.285	(0.989)	1636686	9.87337	9.87337
111	1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	661434	10.0599	10.0599
113	1,4-dichlorobenzene	146	12.443	12.450	(1.002)	636770	10.0526	10.0526
115	n-Butylbenzene	91	12.679	12.679	(1.021)	1623058	9.82213	9.82213
116	1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	528456	10.0077	10.0077
117	1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	20635	9.70559	9.70559
118	1,2,4-Trichlorobenzene	180	14.724	14.724	(1.185)	345150	9.67563	9.67563
119	Hexachlorobutadiene	225	14.881	14.881	(1.198)	248177	9.84619	9.84618
120	Naphthalene	128	15.138	15.138	(1.219)	476003	9.65633	9.65632

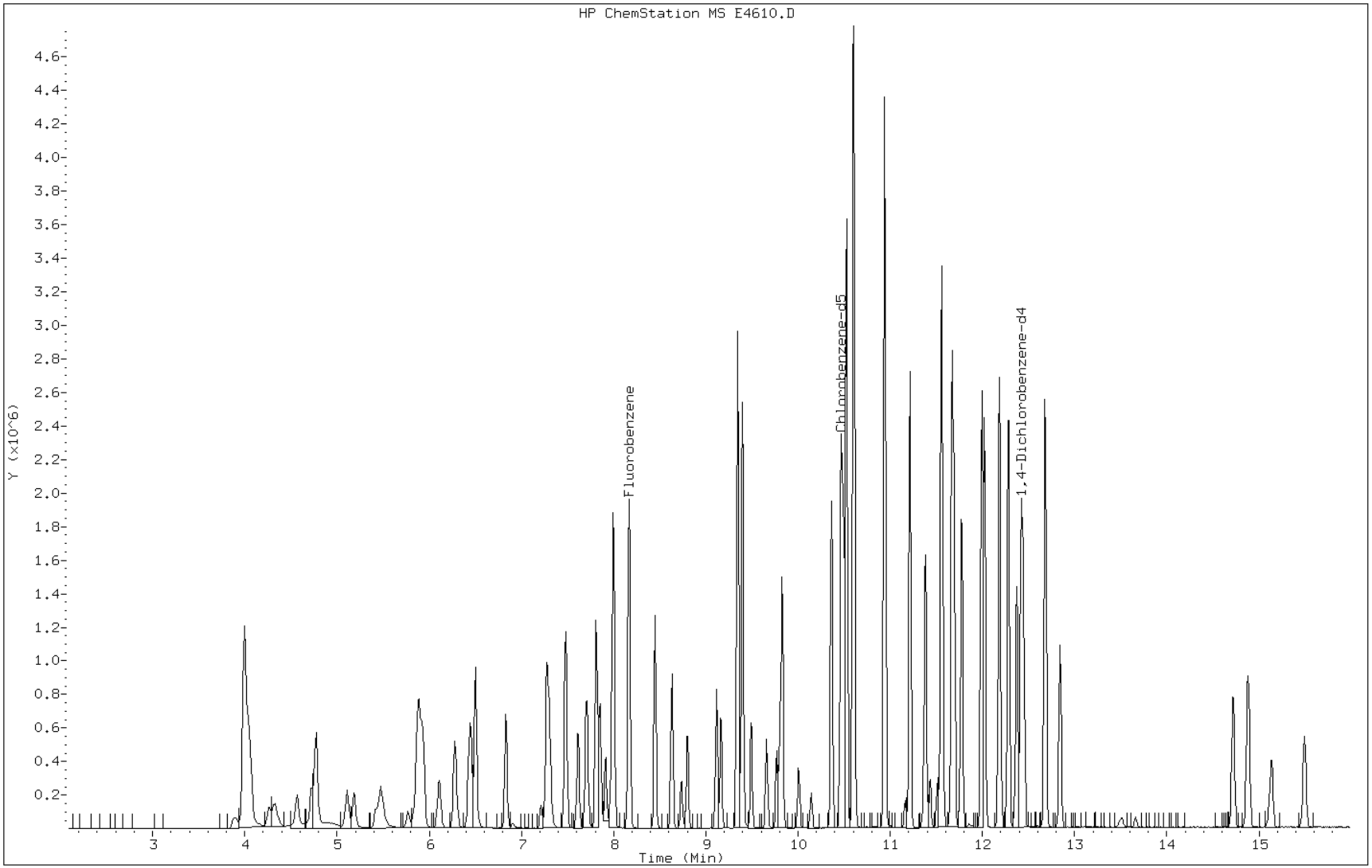
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
121 1,2,3-Trichlorobenzene	180	15.489	15.496	(1.247)	260286	9.39176	9.39176

Data File: E4610.D

Date: 28-NOV-2011 12:52

Client ID: ICV Instrument: E.i

Sample Info: ICV,,A Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Lab Sample ID: ICV 280-97801/18 Calibration Date: 11/28/2011 15:25

Instrument ID: MSV_E Calib Start Date: 11/28/2011 13:31

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 15:06

Lab File ID: E4618.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.0908	0.2412		26.6	10.0	165.5*	50.0
Ethylene oxide	Ave	0.0058	0.0059		1270	1250	2.0	55.0
Dichlorofluoromethane	Ave	0.5605	0.5009		8.94	10.0	-10.6	55.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.3188	0.2568		8.05	10.0	-19.5	55.0
Ethyl ether	Ave	0.1396	0.1230		8.81	10.0	-11.9	35.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.4572	0.4114		9.00	10.0	-10.0	55.0
1,1,2-Trichlorotrifluoroethane	Ave	0.2453	0.2238		9.12	10.0	-8.8	55.0
2-Propanol	Ave	0.0050	0.0047		188	200	-6.1	55.0
Methyl acetate	Ave	0.0613	0.0552		45.0	50.0	-10.0	55.0
Allyl chloride	Ave	0.4754	0.4282		9.01	10.0	-9.9	35.0
Carbon disulfide	Ave	1.144	1.011		8.84	10.0	-11.6	55.0
Methyl tert-butyl ether	Ave	0.3984	0.3485		8.75	10.0	-12.5	35.0
Hexane	Ave	2.444	2.547		10.4	10.0	4.2	35.0
Vinyl acetate	Ave	0.2149	0.1626		15.1	20.0	-24.4	55.0
Tert-butyl ethyl ether	Ave	0.5574	0.5086		45.6	50.0	-8.8	35.0
Ethyl acetate	Ave	0.0804	0.0707		17.6	20.0	-12.1	55.0
Tetrahydrofuran	Ave	0.0239	0.0210		17.6	20.0	-12.1	55.0
Cyclohexane	Ave	0.6239	0.5571		8.93	10.0	-10.7	35.0
Tert-amyl methyl ether	Ave	0.4359	0.3869		44.4	50.0	-11.2	35.0
2-Pentanone	Ave	0.0566	0.0626		44.2	40.0	10.5	55.0
Methyl methacrylate	Ave	0.0269	0.0244		18.1	20.0	-9.3	35.0
Methylcyclohexane	Ave	0.4939	0.4454		9.02	10.0	-9.8	35.0
2-Chloroethyl vinyl ether	Ave	0.0648	0.0566		8.73	10.0	-12.7	55.0
2-Nitropropane	Ave	0.0226	0.0210		9.27	10.0	-7.3	55.0
Ethyl methacrylate	Ave	0.6772	0.6659		19.7	20.0	-1.7	35.0
Tetrahydrothiophene	Ave	0.3439	0.2912		8.47	10.0	-15.3	55.0
cis-1,4-Dichloro-2-butene	Ave	0.1010	0.1150		11.4	10.0	13.9	55.0
trans-1,4-Dichloro-2-butene	Ave	0.0996	0.1016		10.2	10.0	2.1	55.0
1,2,3-Trimethylbenzene	Ave	3.292	3.450		10.5	10.0	4.8	35.0
Dibromofluoromethane (Surr)	Ave	0.2074	0.1970		12.3	13.0	-5.0	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1687	0.1573		12.1	13.0	-6.8	35.0
Toluene-d8 (Surr)	Ave	4.683	5.054		14.0	13.0	7.9	35.0
4-Bromofluorobenzene (Surr)	Ave	1.078	1.157		13.9	13.0	7.3	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4618.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 28-NOV-2011 15:25
Operator : MEIERG Inst ID: E.i
Smp Info : ICV,,S
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 61 Fluorobenzene	96	8.167	8.166	(1.000)	1859295	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	358374	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	459910	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.616	7.609	(0.933)	380827	12.3464	12.3464
$ 57 1,2-Dichloroethane-d4	65	7.917	7.909	(0.969)	304179	12.1192	12.1192
$ 75 Toluene-d8	98	9.347	9.339	(0.893)	1883709	14.0308	14.0308
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	553184	13.9440	13.9440
7 1,2-Dichlorotetrafluoroethane	85	4.495	4.482	(0.550)	358711	26.5506	26.5506
11 Ethylene Oxide	43	5.054	5.041	(0.619)	1091379	1274.48	1274.48
14 Dichlorofluoromethane	67	5.347	5.334	(0.655)	745047	8.93617	8.93617
17 1,2-dichloro-1,1,2-trifluoro	117	5.598	5.599	(0.686)	381921	8.05290	8.05290
18 Ethyl Ether	59	5.612	5.613	(0.687)	182944	8.81271	8.81271
19 2,2-dichloro-1,1,1-trifluoro	83	5.640	5.627	(0.691)	611947	8.99778	8.99778
21 Trichlorotrifluoroethane	151	5.878	5.879	(0.720)	332952	9.12346	9.12346
23 2-propanol	45	5.878	5.879	(0.720)	138576	187.759	187.759
27 Methyl Acetate	43	6.115	6.114	(0.749)	410157	44.9842	44.9842
28 Allyl Chloride	41	6.179	6.171	(0.757)	636926	9.00707	9.00707
29 Carbon Disulfide	76	6.236	6.229	(0.764)	1503320	8.83817	8.83817
33 Methyl t-butyl ether	73	6.451	6.443	(0.790)	518374	8.74683	8.74683
35 Hexane	57	6.665	6.658	(0.637)	730298	10.4222	10.4222
36 Vinyl acetate	43	6.758	6.751	(0.828)	483574	15.1293	15.1293
40 ETBE	59	7.059	7.051	(0.864)	3782390	45.6194	45.6194

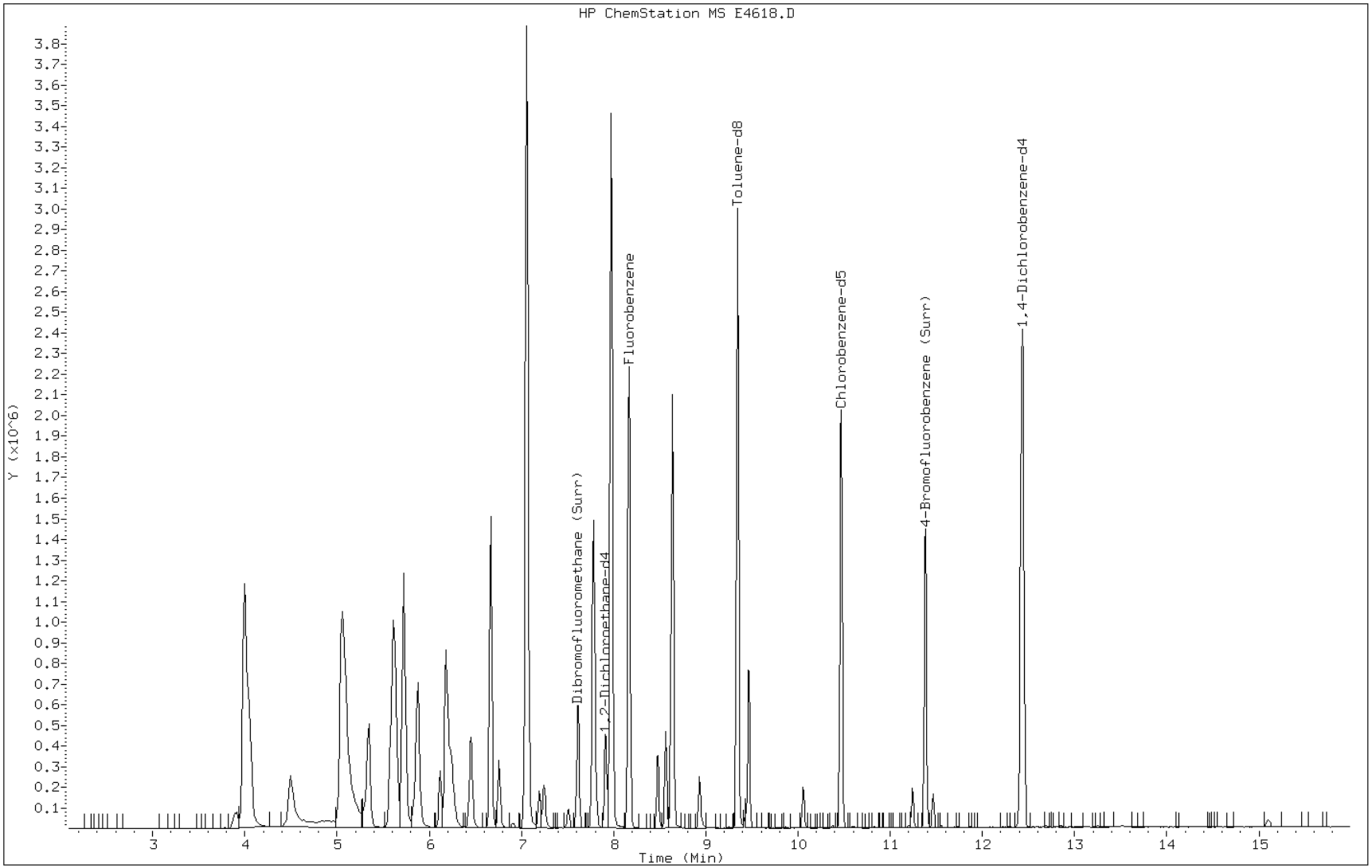
						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
41 Ethyl Acetate	43	7.194	7.187	(0.881)	210216	17.5775	17.5775
43 2-Butanol	45	7.244	7.244	(0.887)	229904	261.604	261.604
50 Tetrahydrofuran	42	7.509	7.501	(0.919)	62568	17.5873	17.5873
54 Cyclohexane	56	7.781	7.780	(0.953)	828610	8.92818	8.92818
59 TAME	73	7.974	7.973	(0.976)	2877472	44.3816	44.3816
64 2-Pentanone	43	8.481	8.474	(1.039)	372516	44.2111	44.2111
67 Methyl Cyclohexane	55	8.639	8.631	(1.058)	662533	9.01804	9.01804
65 Methyl Methacrylate	100	8.567	8.560	(1.049)	72514	18.1400	18.1400
72 2-nitropropane	41	8.939	8.931	(1.095)	31220	9.27081	9.27081
71 2-Chloroethyl vinyl ether	63	8.932	8.931	(1.094)	84167	8.72799	8.72799
77 Ethyl methacrylate	69	9.468	9.460	(0.904)	381851	19.6673	19.6673
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	83478	8.46623	8.46623
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	42296	11.3866	11.3866
100 t-1,4-Dichloro-2-butene	53	11.463	11.463	(0.923)	37398	10.2052	10.2052
114 1,2,3-Trimethylbenzene	105	12.443	12.442	(1.002)	1269400	10.4813	10.4813

Data File: E4618.D

Date: 28-NOV-2011 15:25

Client ID: ICV Instrument: E.i

Sample Info: ICV,,S Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Lab Sample ID: CCV 280-98185/2 Calibration Date: 11/29/2011 20:56

Instrument ID: MSV_E Calib Start Date: 11/28/2011 10:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 12:14

Lab File ID: E4803.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.2964	0.2814		19.2	20.0	-5.1	35.0
Xylenes, Total	Ave	2.284	2.658		34.6	30.0	16.4	35.0
Dichlorodifluoromethane	Lin1	0.2560	0.2578		9.33	10.0	-6.7	50.0
Chloromethane	Ave	0.2294	0.2398	0.1000	10.5	10.0	4.5	35.0
Vinyl chloride	Ave	0.2363	0.2559		10.8	10.0	8.3	20.0
Bromomethane	Ave	0.1811	0.1794		9.91	10.0	-0.9	35.0
Chloroethane	Ave	0.2017	0.2075		10.3	10.0	2.9	35.0
Ethanol	Ave	0.0009	0.0009		511	500	2.3	50.0
Trichlorofluoromethane	Ave	0.3952	0.4189		10.6	10.0	6.0	50.0
Acrolein	Ave	0.0132	0.0125		94.5	100	-5.5	50.0
Acetone	Lin2	0.0272	0.0208		34.8	40.0	-13.1	50.0
1,1-Dichloroethene	Ave	0.2866	0.2778		9.69	10.0	-3.1	20.0
Iodomethane	Ave	0.3480	0.3316		9.53	10.0	-4.7	35.0
Acetonitrile	Ave	0.0085	0.0084		98.7	100	-1.3	50.0
Tert-butyl alcohol (2-methyl-2-propanol)	Ave	0.0070	0.0058		166	200	-17.0	50.0
Methylene Chloride	Ave	0.2478	0.2336		9.43	10.0	-5.7	35.0
Acrylonitrile	Ave	0.0294	0.0260		88.5	100	-11.5	50.0
trans-1,2-Dichloroethene	Ave	0.2944	0.2902		9.86	10.0	-1.4	35.0
Isopropyl ether	Ave	0.1937	0.1799		46.4	50.0	-7.1	35.0
1,1-Dichloroethane	Ave	0.4806	0.4930	0.1000	10.3	10.0	2.6	35.0
Chloroprene	Ave	0.5100	0.5366		10.5	10.0	5.2	35.0
2-Butanone (MEK)	Ave	0.0358	0.0299		33.5	40.0	-16.4	50.0
cis-1,2-Dichloroethene	Ave	0.2917	0.2726		9.34	10.0	-6.6	35.0
Propionitrile	Ave	0.0105	0.0095		90.7	100	-9.3	50.0
2,2-Dichloropropane	Ave	0.3924	0.4204		10.7	10.0	7.1	35.0
Methacrylonitrile	Ave	0.0542	0.0499		92.0	100	-8.0	50.0
Bromochloromethane	Ave	0.0907	0.0794		8.75	10.0	-12.5	35.0
Chloroform	Ave	0.4197	0.4148		9.88	10.0	-1.2	20.0
Isobutyl alcohol	Ave	0.0026	0.0021		156	200	-22.1	50.0
1,1,1-Trichloroethane	Ave	0.4097	0.4203		10.3	10.0	2.6	35.0
1,1-Dichloropropene	Ave	0.4303	0.4378		10.2	10.0	1.7	35.0
Carbon tetrachloride	Ave	0.3490	0.3580		10.3	10.0	2.6	35.0
1,2-Dichloroethane	Lin1	0.2384	0.1956		9.27	10.0	-7.3	35.0
Benzene	Ave	1.136	1.120		9.85	10.0	-1.5	35.0
n-Butanol	Ave	0.0039	0.0019		145	300	-51.6*	50.0
Trichloroethene	Ave	0.2895	0.2842		9.82	10.0	-1.8	35.0
1,2-Dichloropropane	Ave	0.2423	0.2271		9.37	10.0	-6.3	20.0
1,4-Dioxane	Ave	0.0008	0.0007		450	500	-9.9	50.0
Dibromomethane	Ave	0.0807	0.0705		8.74	10.0	-12.6	35.0
Bromodichloromethane	Ave	0.2474	0.2355		9.52	10.0	-4.8	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Lab Sample ID: CCV 280-98185/2 Calibration Date: 11/29/2011 20:56

Instrument ID: MSV_E Calib Start Date: 11/28/2011 10:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 12:14

Lab File ID: E4803.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
cis-1,3-Dichloropropene	Ave	0.3208	0.2934		9.15	10.0	-8.5	35.0
4-Methyl-2-pentanone	Ave	0.0819	0.0657		32.1	40.0	-19.8	50.0
Toluene	Ave	1.242	1.181		9.51	10.0	-4.9	20.0
trans-1,3-Dichloropropene	Ave	0.2360	0.2089		8.85	10.0	-11.5	35.0
1,1,2-Trichloroethane	Ave	0.1185	0.1033		8.71	10.0	-12.9	35.0
2-Hexanone	Ave	0.2421	0.2268		37.5	40.0	-6.3	50.0
1,3-Dichloropropane	Ave	0.9903	1.077		10.9	10.0	8.8	35.0
Tetrachloroethene	Ave	1.013	1.154		11.4	10.0	13.9	35.0
Dibromochloromethane	Lin1	0.5545	0.6047		9.80	10.0	-2.0	35.0
1,2-Dibromoethane (EDB)	Ave	0.4685	0.4738		10.1	10.0	1.1	35.0
1-Chlorohexane	Ave	1.973	2.231		11.6	10.3	13.1	35.0
Chlorobenzene	Ave	2.991	3.388	0.3000	11.3	10.0	13.3	35.0
1,1,1,2-Tetrachloroethane	Ave	0.8742	0.9652		11.0	10.0	10.4	35.0
Ethylbenzene	Ave	1.935	2.239		11.6	10.0	15.7	20.0
m-Xylene & p-Xylene	Ave	2.360	2.744		23.3	20.0	16.3	35.0
o-Xylene	Ave	2.198	2.487		11.3	10.0	13.1	35.0
Styrene	Ave	3.266	3.636		11.1	10.0	11.3	35.0
Bromoform	Ave	0.2454	0.2235	0.1000	9.11	10.0	-8.9	35.0
Isopropylbenzene	Ave	4.173	5.366		12.9	10.0	28.6	35.0
Cyclohexanone	Ave	0.0118	0.0113		381	400	-4.7	50.0
1,1,2,2-Tetrachloroethane	Ave	0.3654	0.4223	0.3000	11.6	10.0	15.6	35.0
1,2,3-Trichloropropane	Ave	0.0992	0.1150		11.6	10.0	15.9	35.0
n-Propylbenzene	Ave	1.282	1.597		12.5	10.0	24.6	35.0
Bromobenzene	Ave	0.7494	0.8566		11.4	10.0	14.3	35.0
1,3,5-Trimethylbenzene	Ave	3.613	4.601		12.7	10.0	27.4	35.0
2-Chlorotoluene	Ave	0.9597	1.174		12.2	10.0	22.3	35.0
4-Chlorotoluene	Ave	0.9527	1.147		12.0	10.0	20.5	35.0
tert-Butylbenzene	Ave	3.721	4.690		12.6	10.0	26.0	35.0
1,2,4-Trimethylbenzene	Ave	3.546	4.404		12.4	10.0	24.2	35.0
sec-Butylbenzene	Ave	1.024	1.251		12.2	10.0	22.2	35.0
4-Isopropyltoluene	Ave	4.083	5.131		12.6	10.0	25.7	35.0
1,3-Dichlorobenzene	Ave	1.620	1.876		11.6	10.0	15.8	35.0
1,4-Dichlorobenzene	Ave	1.560	1.779		11.4	10.0	14.0	35.0
n-Butylbenzene	Ave	4.070	5.163		12.7	10.0	26.8	35.0
1,2-Dichlorobenzene	Ave	1.301	1.459		11.2	10.0	12.1	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0524	0.0491		9.38	10.0	-6.2	50.0
1,2,4-Trichlorobenzene	Ave	0.8787	0.8954		10.2	10.0	1.9	35.0
Hexachlorobutadiene	Ave	0.6209	0.7111		11.5	10.0	14.5	35.0
Naphthalene	Ave	1.214	1.171		9.64	10.0	-3.6	35.0
1,2,3-Trichlorobenzene	Ave	0.6827	0.6775		9.92	10.0	-0.8	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4803.D
Lab Smp Id: CCV
Inj Date : 29-NOV-2011 20:56
Operator : TINKHAMS Inst ID: E.i
Smp Info : CCV,,M 1129891/1131966
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:33 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	61 Fluorobenzene	96	8.167	8.167	(1.000)	1836144	12.5000		
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	345177	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	420190	12.5000		(Q)
M	1 1,2-Dichloroethene (total)	96				826726	20.0000	19.2011	
M	2 Xylene (total)	106				2202160	30.0000	34.5715	
M	3 1,3-Dichloropropene (total)	75				737724	20.0000	17.9939	
M	4 Trihalomethanes (total)	83				1183846	40.0000	38.3011	
	6 dichlorodifluoromethane	85	4.327	4.327	(0.530)	378620	10.0000	9.33462	
	8 Chloromethane	50	4.565	4.565	(0.559)	352253	10.0000	10.4517	
	9 Vinyl Chloride	62	4.718	4.718	(0.578)	375858	10.0000	10.8265	
	12 Bromomethane	94	5.109	5.109	(0.626)	263532	10.0000	9.90595	
	13 Chloroethane	64	5.179	5.179	(0.634)	304819	10.0000	10.2881	
	15 Trichlorofluoromethane	101	5.458	5.458	(0.668)	615379	10.0000	10.5993	
	16 Ethanol	45	5.458	5.458	(0.668)	68072	500.000	511.314	
	20 Acrolein	56	5.766	5.766	(0.706)	183524	100.000	94.5339	
	22 Acetone	43	5.863	5.863	(0.718)	122259	40.0000	34.7631	
	24 1,1-Dichloroethene	96	5.919	5.919	(0.725)	408007	10.0000	9.69260	
	25 Iodomethane	142	6.100	6.100	(0.747)	487081	10.0000	9.52978	
	26 Acetonitrile	41	6.115	6.115	(0.749)	123934	100.000	98.7031	
	30 tert-Butyl alcohol	59	6.215	6.215	(0.761)	171318	200.000	166.025	
	31 Methylene Chloride	84	6.272	6.272	(0.768)	343175	10.0000	9.42751	
	32 Acrylonitrile	53	6.429	6.429	(0.787)	381761	100.000	88.4958	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
34	trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	426326	10.0000	9.85753
37	Isopropyl ether	87	6.765	6.765	(0.828)	1321046	50.0000	46.4363
38	1,1-Dichloroethane	63	6.830	6.830	(0.836)	724190	10.0000	10.2593
39	Chloroprene	53	6.901	6.901	(0.845)	788184	10.0000	10.5220
42	2-Butanone	43	7.209	7.209	(0.883)	175892	40.0000	33.4539
45	cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	400400	10.0000	9.34355
44	Propionitrile	54	7.273	7.273	(0.891)	140029	100.000	90.7075
46	2,2-Dichloropropane	77	7.302	7.302	(0.894)	617585	10.0000	10.7146
47	Methacrylonitrile	41	7.402	7.402	(0.906)	732704	100.000	92.0285
48	Bromochloromethane	128	7.473	7.473	(0.915)	116586	10.0000	8.75236
49	Chloroform	83	7.480	7.480	(0.916)	609229	10.0000	9.88093
53	1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	617436	10.0000	10.2595
52	Isobutanol	41	7.666	7.666	(0.939)	60371	200.000	155.770
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	643050	10.0000	10.1726
56	Carbon Tetrachloride	117	7.852	7.852	(0.961)	525905	10.0000	10.2580
58	1,2-Dichloroethane	62	7.974	7.974	(0.976)	287278	10.0000	9.27164
60	Benzene	78	7.995	7.995	(0.979)	1644761	10.0000	9.85436
62	n-Butanol	56	8.174	8.174	(1.001)	82220	200.000	145.181
63	Trichloroethene	95	8.446	8.446	(1.034)	417495	10.0000	9.81814
66	1,2-Dichloropropane	63	8.631	8.631	(1.057)	333620	10.0000	9.37410
68	1,4-Dioxane	88	8.682	8.682	(1.063)	53055	500.000	450.439
69	Dibromomethane	93	8.732	8.732	(1.069)	103620	10.0000	8.73780
70	Bromodichloromethane	83	8.796	8.796	(1.077)	345912	10.0000	9.51732
73	cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	430910	10.0000	9.14502
74	4-Methyl-2-pentanone	43	9.161	9.161	(1.122)	385779	40.0000	32.0720
76	Toluene	91	9.397	9.397	(1.151)	1735182	10.0000	9.51367
78	trans-1,3-Dichloropropene	75	9.489	9.489	(1.162)	306814	10.0000	8.84889
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	151699	10.0000	8.71166
80	2-Hexanone	43	9.768	9.768	(0.933)	250484	40.0000	37.4673
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	297495	10.0000	10.8787
82	Tetrachloroethene	164	9.826	9.826	(0.939)	318570	10.0000	11.3892
83	Dibromochloromethane	129	10.004	10.004	(0.956)	166993	10.0000	9.79630
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	130840	10.0000	10.1124
86	1-Chlorohexane	91	10.362	10.362	(0.990)	632232	10.0000	11.6057
88	Chlorobenzene	112	10.490	10.490	(1.002)	935607	10.0000	11.3270
89	1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	266524	10.0000	11.0410
90	Ethylbenzene	106	10.526	10.526	(1.005)	618417	10.0000	11.5719
91	m and p-Xylene	106	10.605	10.605	(1.013)	1515446	20.0000	23.2580
92	o-Xylene	106	10.941	10.941	(1.045)	686714	10.0000	11.3135
93	Styrene	104	10.941	10.941	(1.045)	1004168	10.0000	11.1338
94	Bromoform	173	11.163	11.163	(1.066)	61712	10.0000	9.10652
95	isopropyl benzene	105	11.213	11.213	(0.903)	1803899	10.0000	12.8599
97	Cyclohexanone	55	11.363	11.363	(1.085)	124475	400.000	381.092
99	1,1,2,2-Tetrachloroethane	83	11.434	11.434	(0.921)	141968	10.0000	11.5570
101	1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	38646	10.0000	11.5893
103	Bromobenzene	156	11.570	11.570	(0.931)	287951	10.0000	11.4304
102	n-Propylbenzene	120	11.556	11.556	(0.930)	536896	10.0000	12.4599
105	2-Chlorotoluene	126	11.692	11.692	(0.941)	394676	10.0000	12.2335
104	1,3,5-Trimethylbenzene	105	11.670	11.670	(0.940)	1546695	10.0000	12.7363
106	4-Chlorotoluene	126	11.778	11.778	(0.948)	385725	10.0000	12.0450
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	1576495	10.0000	12.6027
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	1480400	10.0000	12.4187
109	sec-Butylbenzene	134	12.185	12.185	(0.981)	420459	10.0000	12.2208
110	4-Isopropyltoluene	119	12.285	12.285	(0.989)	1724741	10.0000	12.5658

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
111 1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	630497	10.0000	11.5813
113 1,4-dichlorobenzene	146	12.450	12.450	(1.002)	597939	10.0000	11.4004
115 n-Butylbenzene	91	12.686	12.686	(1.021)	1735485	10.0000	12.6841
116 1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	490342	10.0000	11.2148
117 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	16504	10.0000	9.37505
118 1,2,4-Trichlorobenzene	180	14.723	14.723	(1.185)	300999	10.0000	10.1907
119 Hexachlorobutadiene	225	14.888	14.888	(1.199)	239040	10.0000	11.4536
120 Naphthalene	128	15.138	15.138	(1.219)	393471	10.0000	9.64011
121 1,2,3-Trichlorobenzene	180	15.496	15.496	(1.248)	227738	10.0000	9.92428

QC Flag Legend

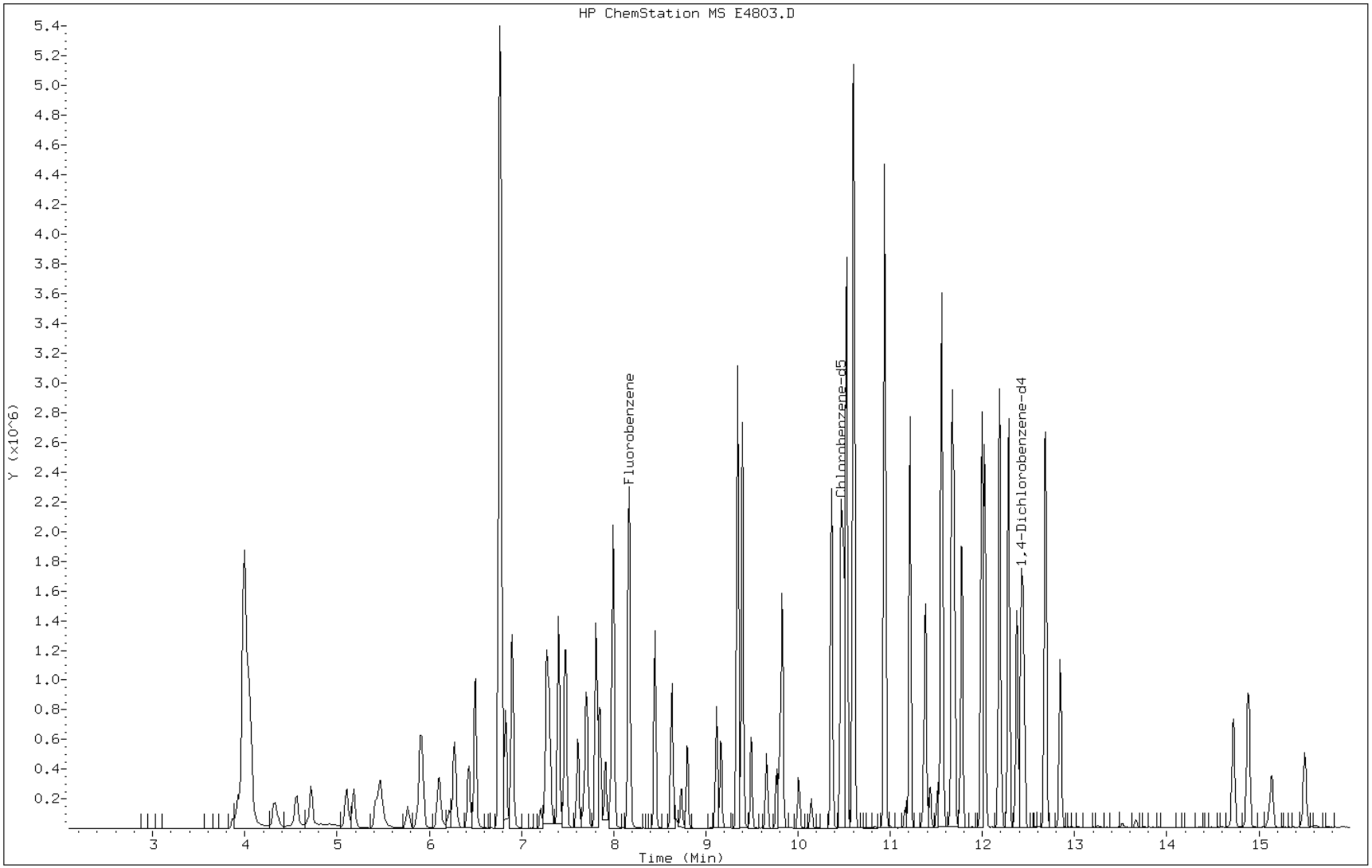
Q - Qualifier signal failed the ratio test.

Data File: E4803.D

Date: 29-NOV-2011 20:56

Client ID: Instrument: E.i

Sample Info: CCV,,M 1129891/1131966 Operator: TINKHAMS



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Lab Sample ID: CCV 280-98185/3 Calibration Date: 11/29/2011 21:16

Instrument ID: MSV_E Calib Start Date: 11/28/2011 13:31

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 15:06

Lab File ID: E4804.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.0908	0.0932		10.3	10.0	2.6	50.0
Ethylene oxide	Ave	0.0058	0.0054		1160	1250	-6.9	50.0
Dichlorofluoromethane	Ave	0.5605	0.5592		9.98	10.0	-0.2	50.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.3188	0.3098		9.72	10.0	-2.8	50.0
Ethyl ether	Ave	0.1396	0.1223		8.76	10.0	-12.4	35.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.4572	0.4488		9.82	10.0	-1.8	50.0
1,1,2-Trichlorotrifluoroethane	Ave	0.2453	0.2481		10.1	10.0	1.1	50.0
2-Propanol	Ave	0.0050	0.0048		195	200	-2.7	50.0
Methyl acetate	Ave	0.0613	0.0536		43.7	50.0	-12.6	50.0
Allyl chloride	Ave	0.4754	0.4735		9.96	10.0	-0.4	35.0
Carbon disulfide	Ave	1.144	1.133		9.90	10.0	-1.0	50.0
Methyl tert-butyl ether	Ave	0.3984	0.3410		8.56	10.0	-14.4	35.0
Hexane	Ave	2.444	2.905		11.9	10.0	18.9	35.0
Vinyl acetate	Ave	0.2149	0.2019		18.8	20.0	-6.0	50.0
Tert-butyl ethyl ether	Ave	0.5574	0.5106		45.8	50.0	-8.4	35.0
Ethyl acetate	Ave	0.0804	0.0694		17.3	20.0	-13.7	50.0
Tetrahydrofuran	Ave	0.0239	0.0209		17.4	20.0	-12.8	50.0
Cyclohexane	Ave	0.6239	0.6249		10.0	10.0	0.2	35.0
Tert-amyl methyl ether	Ave	0.4359	0.3844		44.1	50.0	-11.8	35.0
2-Pentanone	Ave	0.0566	0.0480		33.9	40.0	-15.2	50.0
Methyl methacrylate	Ave	0.0269	0.0213		15.8	20.0	-20.8	35.0
Methylcyclohexane	Ave	0.4939	0.4926		9.97	10.0	-0.3	35.0
2-Chloroethyl vinyl ether	Ave	0.0648	0.0521		8.04	10.0	-19.6	50.0
2-Nitropropane	Ave	0.0226	0.0173		7.62	10.0	-23.8	50.0
Ethyl methacrylate	Ave	0.6772	0.6420		19.0	20.0	-5.2	35.0
Tetrahydrothiophene	Ave	0.3439	0.3383		9.84	10.0	-1.6	50.0
cis-1,4-Dichloro-2-butene	Ave	0.1010	0.1062		10.5	10.0	5.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.0996	0.1066		10.7	10.0	7.0	50.0
1,2,3-Trimethylbenzene	Ave	3.292	3.695		11.2	10.0	12.3	35.0
Dibromofluoromethane (Surr)	Ave	0.2074	0.1929		12.1	13.0	-7.0	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1687	0.1515		11.7	13.0	-10.2	35.0
Toluene-d8 (Surr)	Ave	4.683	5.221		14.5	13.0	11.5	35.0
4-Bromofluorobenzene (Surr)	Ave	1.078	1.176		14.2	13.0	9.1	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4804.D
Lab Smp Id: CCV
Inj Date : 29-NOV-2011 21:16
Operator : TINKHAMS Inst ID: E.i
Smp Info : CCV,,S 111312/11117687
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1757222	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	328771	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	400026	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.608	7.608	(0.932)	352574	10.0000	12.0944
$ 57 1,2-Dichloroethane-d4	65	7.916	7.916	(0.969)	276927	10.0000	11.6744
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	1785288	10.0000	14.4950
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	489244	10.0000	14.1784
7 1,2-Dichlorotetrafluoroethane	85	4.482	4.482	(0.549)	130996	10.0000	10.2591
11 Ethylene Oxide	43	5.055	5.055	(0.619)	942220	1250.00	1164.21
14 Dichlorofluoromethane	67	5.334	5.334	(0.653)	786089	10.0000	9.97611
17 1,2-dichloro-1,1,2-trifluoro	117	5.585	5.585	(0.684)	435520	10.0000	9.71647
18 Ethyl Ether	59	5.613	5.613	(0.687)	171931	10.0000	8.76329
19 2,2-dichloro-1,1,1-trifluoro	83	5.627	5.627	(0.689)	630893	10.0000	9.81520
21 Trichlorotrifluoroethane	151	5.879	5.879	(0.720)	348800	10.0000	10.1129
23 2-propanol	45	5.879	5.879	(0.720)	135681	200.000	194.515
27 Methyl Acetate	43	6.114	6.114	(0.749)	376580	50.0000	43.7008
28 Allyl Chloride	41	6.178	6.178	(0.757)	665562	10.0000	9.95875(Q)
29 Carbon Disulfide	76	6.200	6.200	(0.759)	1592069	10.0000	9.90363
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	479309	10.0000	8.55746
35 Hexane	57	6.665	6.665	(0.637)	764097	10.0000	11.8864
36 Vinyl acetate	43	6.758	6.758	(0.828)	567695	20.0000	18.7928
40 ETBE	59	7.058	7.058	(0.864)	3588792	50.0000	45.7987

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	195023	20.0000	17.2544
43 2-Butanol	45	7.244	7.244	(0.887)	211146	300.000	254.215
50 Tetrahydrofuran	42	7.508	7.508	(0.919)	58656	20.0000	17.4454
54 Cyclohexane	56	7.780	7.780	(0.953)	878480	10.0000	10.0154
59 TAME	73	7.973	7.973	(0.976)	2701661	50.0000	44.0904
64 2-Pentanone	43	8.481	8.481	(1.039)	270021	40.0000	33.9083
67 Methyl Cyclohexane	55	8.638	8.638	(1.058)	692490	10.0000	9.97332
65 Methyl Methacrylate	100	8.567	8.567	(1.049)	59854	20.0000	15.8428
72 2-nitropropane	41	8.931	8.931	(1.094)	24261	10.0000	7.62281
71 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	73301	10.0000	8.04274
77 Ethyl methacrylate	69	9.468	9.468	(0.904)	337688	20.0000	18.9587
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	88984	10.0000	9.83723
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	33994	10.0000	10.5216
100 t-1,4-Dichloro-2-butene	53	11.462	11.462	(0.923)	34103	10.0000	10.6992
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	1182511	10.0000	11.2255

QC Flag Legend

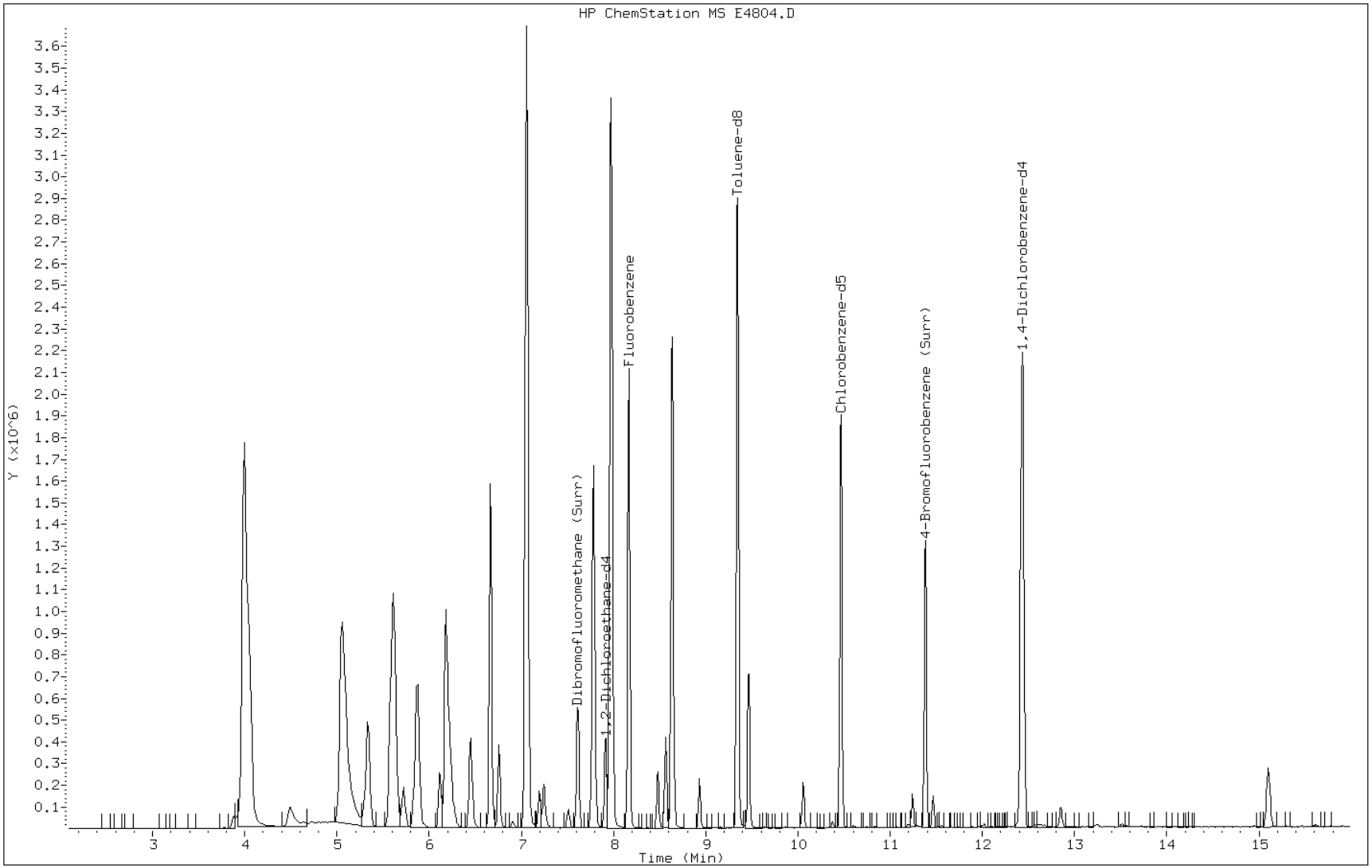
Q - Qualifier signal failed the ratio test.

Data File: E4804.D

Date: 29-NOV-2011 21:16

Client ID: Instrument: E.i

Sample Info: CCV,,S 111312/11117687 Operator: TINKHAMS



TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-NOV-2011 10:09
Operator : MEIERG Inst ID: E.i
Smp Info : BFB,,938819
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\bfb390.m
Meth Date : 25-Aug-2011 05:58 meierg Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC186

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.100	5.112	(0.000)	95	22728			0.00- 100.00	100.00
5.100	5.112	(0.000)	50	4149			15.00- 40.00	18.26
5.100	5.112	(0.000)	75	10407			30.00- 60.00	45.79
5.100	5.112	(0.000)	96	1519			5.00- 9.00	6.68
5.100	5.112	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.100	5.112	(0.000)	174	16608			50.00- 0.00	73.07
5.100	5.112	(0.000)	175	1456			5.00- 9.00	8.77
5.100	5.112	(0.000)	176	16392			95.00- 101.00	98.70
5.100	5.112	(0.000)	177	1300			5.00- 9.00	7.93

Data File: E4601.D

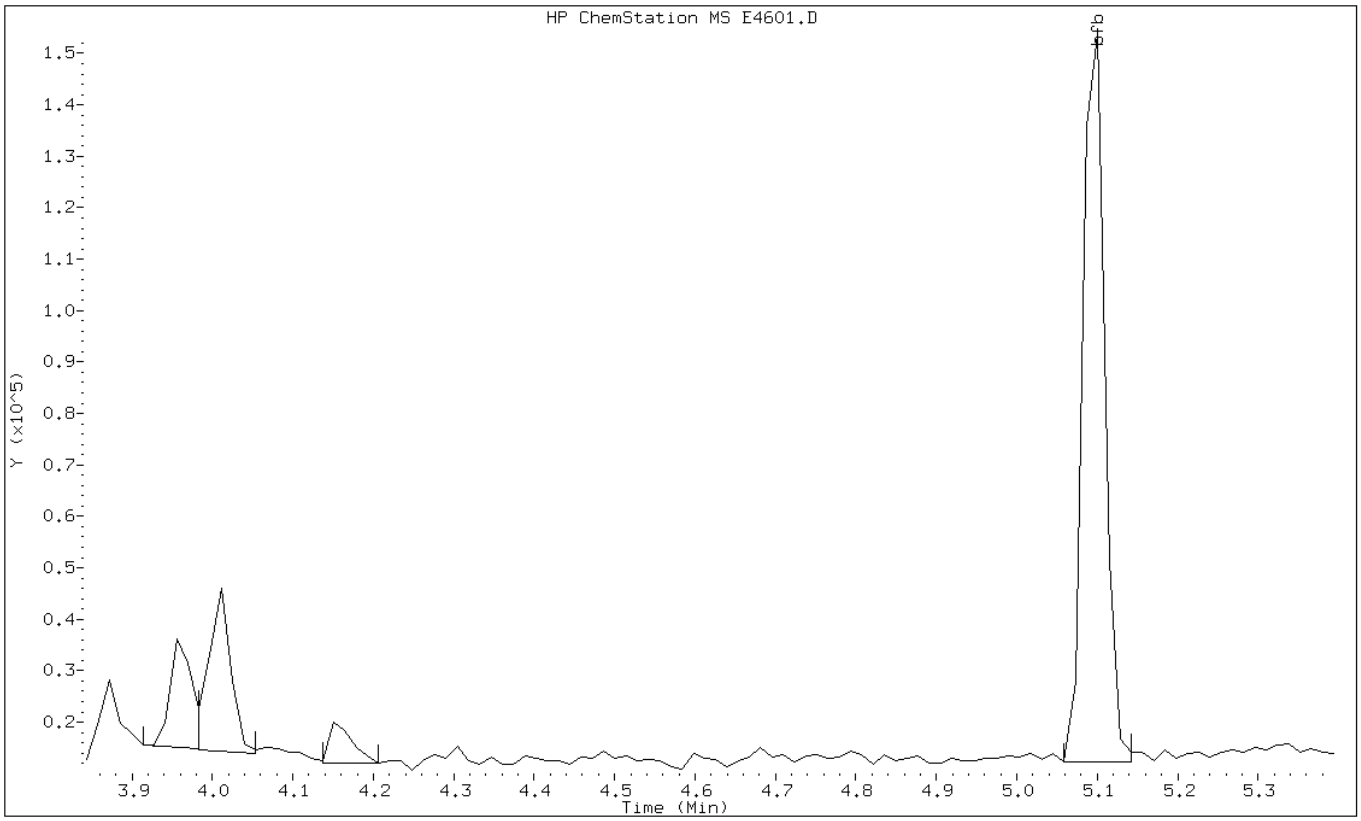
Date: 28-NOV-2011 10:09

Client ID: BFB

Instrument: E.i

Sample Info: BFB,,938819

Operator: MEIERG



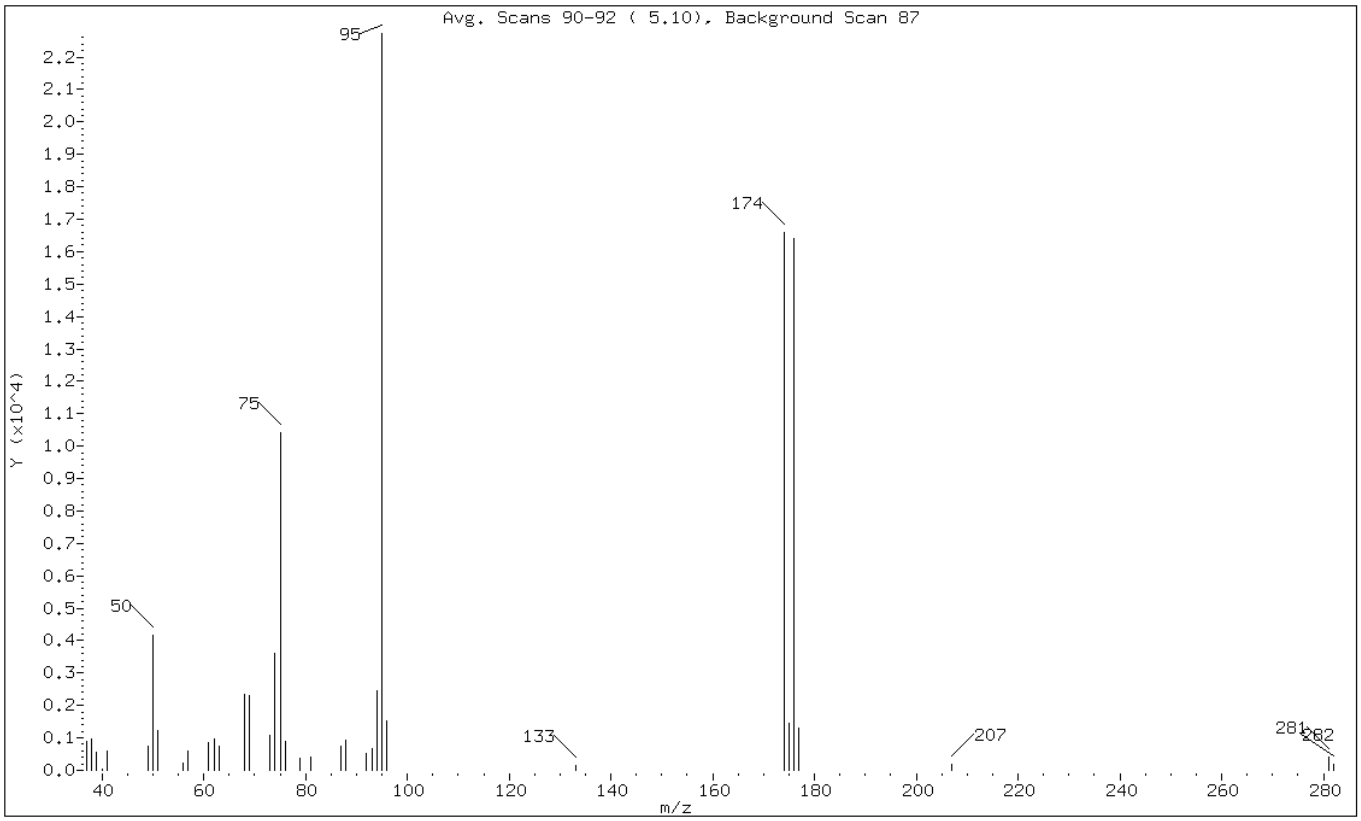
Data File: E4601.D

Date: 28-NOV-2011 10:09

Client ID: BFB Instrument: E.i

Sample Info: BFB,,938819 Operator: MEIERG

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.26
75	30.00 - 60.00% of mass 95	45.79
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	73.07
175	5.00 - 9.00% of mass 174	6.41 (8.77)
176	95.00 - 101.00% of mass 174	72.12 (98.70)
177	5.00 - 9.00% of mass 176	5.72 (7.93)

Data File: E4601.D

Date: 28-NOV-2011 10:09

Client ID: BFB Instrument: E.i

Sample Info: BFB,,938819 Operator: MEIERG

Data File: \\DenSvr03\Public\chem\MSV\E.i\112811I\E4601.D
Spectrum: Avg. Scans 90-92 (5.10), Background Scan 87
Location of Maximum: 95.00
Number of points: 36

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	905	61.00	852	81.00	417	175.00	1456
38.00	963	62.00	967	87.00	745	176.00	16392
39.00	548	63.00	754	88.00	943	177.00	1300
40.00	23	68.00	2331	92.00	539	207.00	173
41.00	596	69.00	2302	93.00	656	281.00	414
49.00	745	73.00	1073	94.00	2437	282.00	168
50.00	4149	74.00	3598	95.00	22728		
51.00	1215	75.00	10407	96.00	1519		
56.00	240	76.00	906	133.00	145		
57.00	581	79.00	376	174.00	16608		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4802.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-NOV-2011 20:26
Operator : TINKHAMS Inst ID: E.i
Smp Info : BFB,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\bfb390.m
Meth Date : 25-Aug-2011 05:58 meierg Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC293

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.088	5.112	(0.000)	95	38712			0.00- 100.00	100.00
5.088	5.112	(0.000)	50	7103			15.00- 40.00	18.35
5.088	5.112	(0.000)	75	18688			30.00- 60.00	48.27
5.088	5.112	(0.000)	96	2684			5.00- 9.00	6.93
5.088	5.112	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.088	5.112	(0.000)	174	25160			50.00- 0.00	64.99
5.088	5.112	(0.000)	175	1949			5.00- 9.00	7.75
5.088	5.112	(0.000)	176	24136			95.00- 101.00	95.93
5.088	5.112	(0.000)	177	1734			5.00- 9.00	7.18

Data File: E4802.D

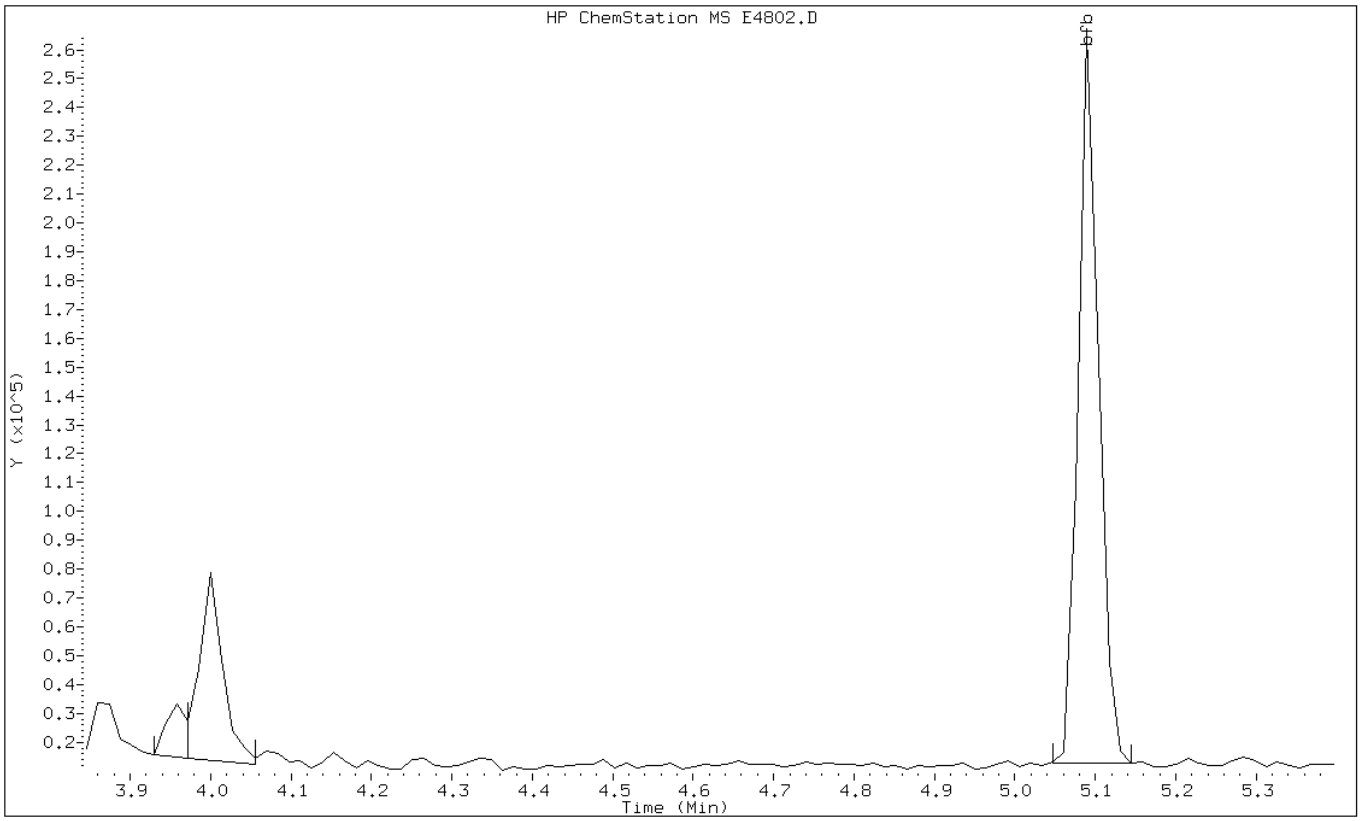
Date: 29-NOV-2011 20:26

Client ID: BFB

Instrument: E.i

Sample Info: BFB,,

Operator: TINKHAMS



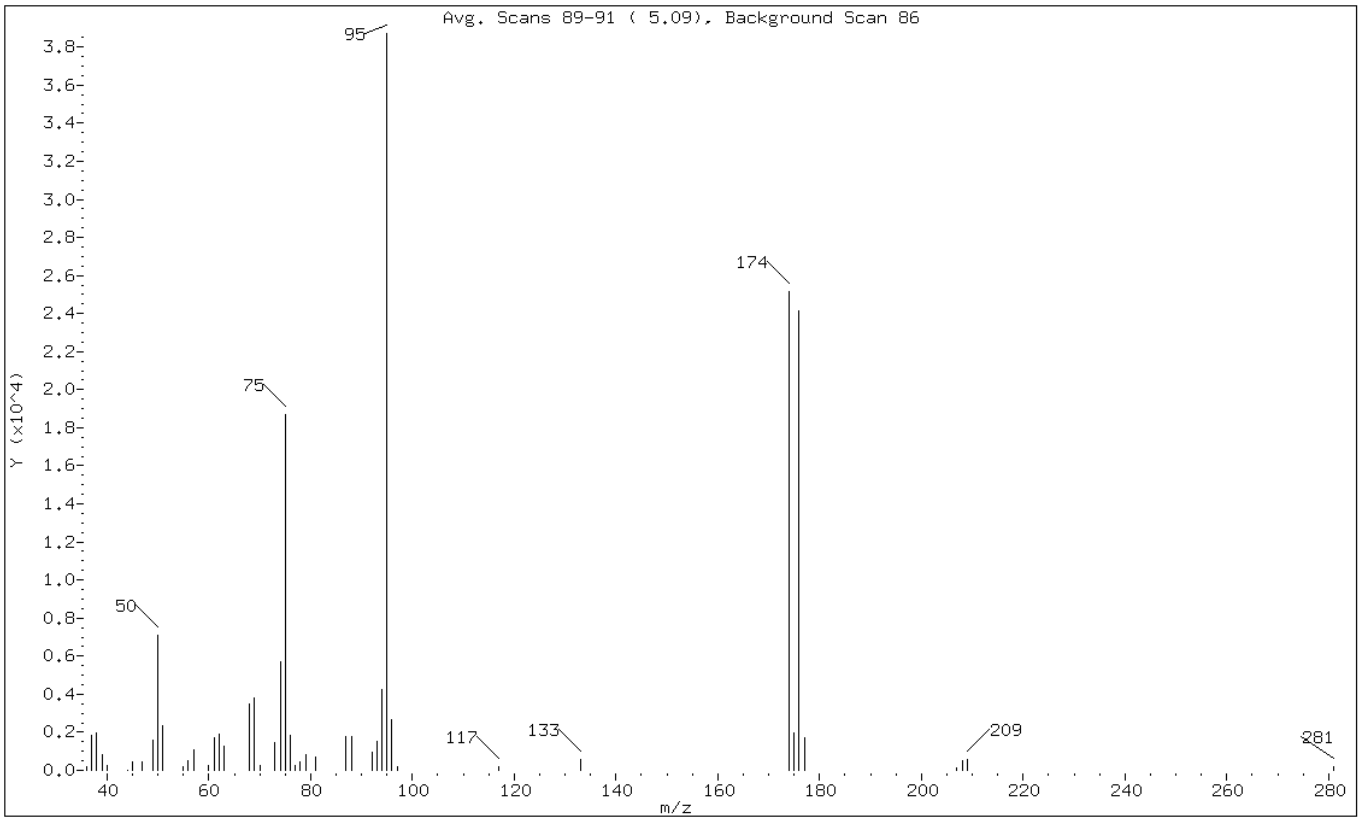
Data File: E4802.D

Date: 29-NOV-2011 20:26

Client ID: BFB Instrument: E.i

Sample Info: BFB,, Operator: TINKHAMS

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.35
75	30.00 - 60.00% of mass 95	48.27
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	64.99
175	5.00 - 9.00% of mass 174	5.03 (7.75)
176	95.00 - 101.00% of mass 174	62.35 (95.93)
177	5.00 - 9.00% of mass 176	4.48 (7.18)

Data File: E4802.D

Date: 29-NOV-2011 20:26

Client ID: BFB Instrument: E.i

Sample Info: BFB,, Operator: TINKHAMS

Data File: \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4802.D
Spectrum: Avg. Scans 89-91 (5.09), Background Scan 86
Location of Maximum: 95.00
Number of points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	188	56.00	525	76.00	1827	97.00	189
37.00	1860	57.00	1064	77.00	230	117.00	193
38.00	1968	60.00	227	78.00	438	133.00	596
39.00	838	61.00	1737	79.00	813	174.00	25160
40.00	268	62.00	1893	81.00	671	175.00	1949
44.00	2	63.00	1284	87.00	1781	176.00	24136
45.00	471	68.00	3514	88.00	1784	177.00	1734
47.00	421	69.00	3776	92.00	962	207.00	142
49.00	1607	70.00	275	93.00	1533	208.00	498
50.00	7103	73.00	1427	94.00	4261	209.00	577
51.00	2314	74.00	5689	95.00	38712	281.00	206
55.00	191	75.00	18688	96.00	2684		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-98185/5

Matrix: Water | Lab File ID: E4806.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 21:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-98185/5

Matrix: Water | Lab File ID: E4806.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 21:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.618	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-98185/5

Matrix: Water Lab File ID: E4806.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 21:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
1868-53-7	Dibromofluoromethane (Surr)	89		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		70-127
2037-26-5	Toluene-d8 (Surr)	107		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4806.D
Lab Smp Id: MB
Inj Date : 29-NOV-2011 21:59
Operator : TINKHAMS Inst ID: E.i
Smp Info : MB,, 1119179/1119180
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.167	8.166	(1.000)	1876793	12.5000		
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	349565	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	445805	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	359469	11.5453	11.5453	
$	57 1,2-Dichloroethane-d4	65	7.909	7.916	(0.968)	286190	11.2962	11.2962	
$	75 Toluene-d8	98	9.347	9.346	(0.893)	1827430	13.9546	13.9546	
$	98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	509077	13.2382	13.2382	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.279	6.272	(0.769)	22977	0.61754	0.617540(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

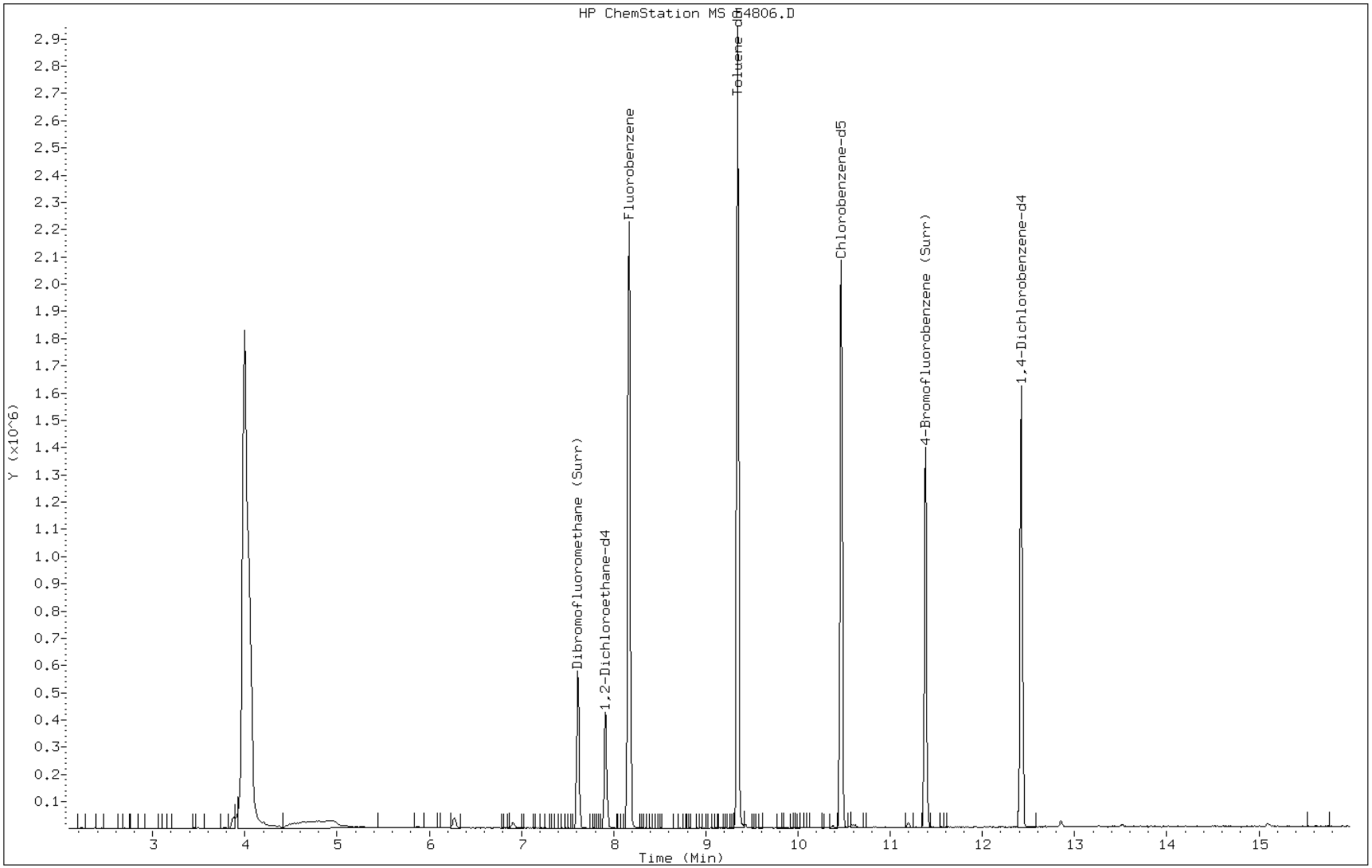
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4806.D

Date: 29-NOV-2011 21:59

Client ID: Instrument: E.i

Sample Info: MB,, 1119179/1119180 Operator: TINKHAMS



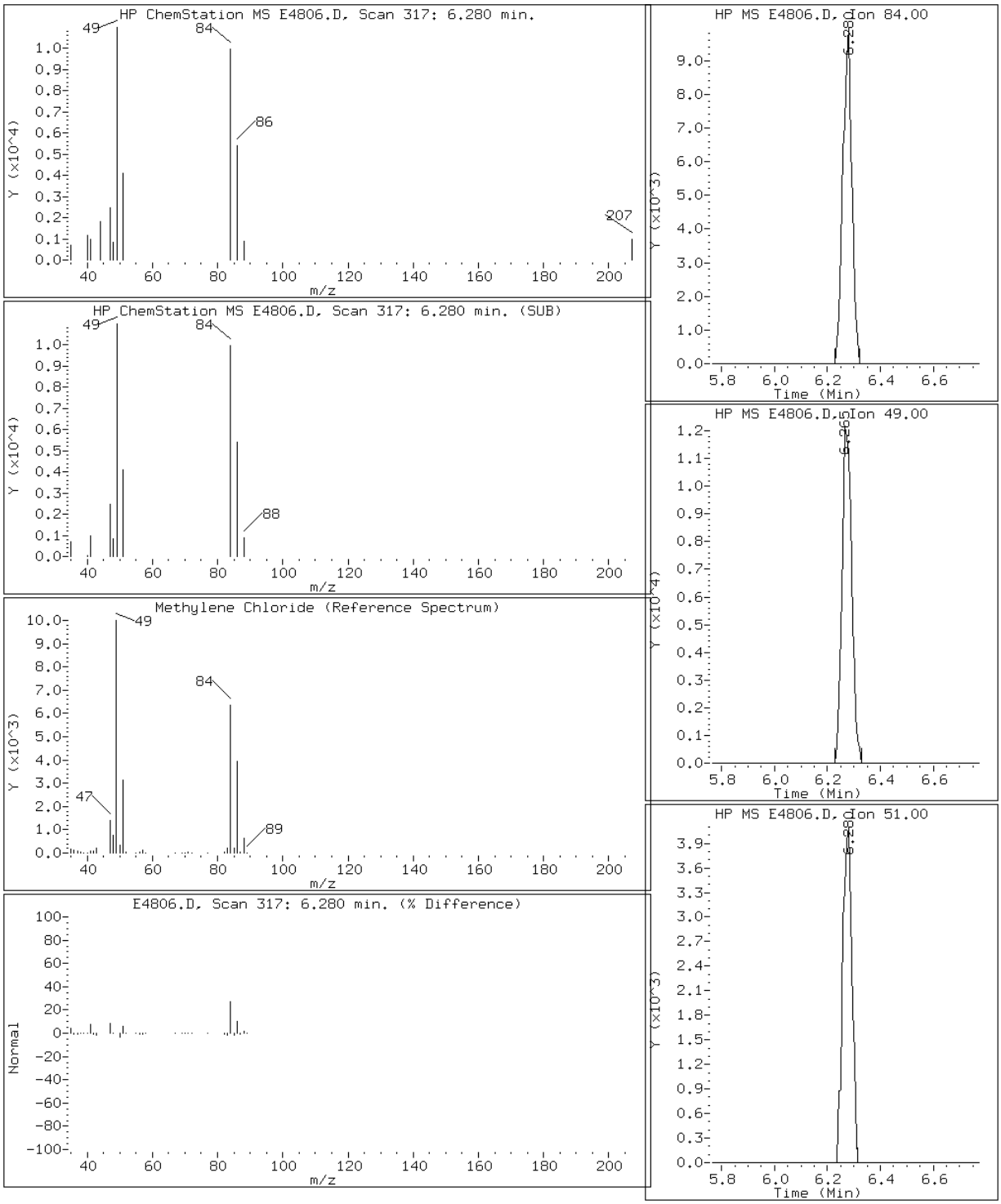
Data File: E4806.D

Date: 29-NOV-2011 21:59

Client ID: Instrument: E.i

Sample Info: MB,, 1119179/1119180 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-98185/4

Matrix: Water | Lab File ID: E4805.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 21:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	16.6		10	1.9
71-43-2	Benzene	4.61		1.0	0.16
108-86-1	Bromobenzene	5.28		1.0	0.17
75-27-4	Bromodichloromethane	4.39		1.0	0.17
75-25-2	Bromoform	4.45		1.0	0.19
74-83-9	Bromomethane	4.42		2.0	0.21
78-93-3	2-Butanone (MEK)	18.8		6.0	2.0
56-23-5	Carbon tetrachloride	4.80		1.0	0.19
108-90-7	Chlorobenzene	5.34		1.0	0.17
74-97-5	Bromochloromethane	4.04		1.0	0.10
124-48-1	Dibromochloromethane	4.62		1.0	0.17
75-00-3	Chloroethane	4.70		2.0	0.41
67-66-3	Chloroform	4.60		1.0	0.16
74-87-3	Chloromethane	4.68		2.0	0.30
95-49-8	2-Chlorotoluene	5.61		1.0	0.17
106-43-4	4-Chlorotoluene	5.53		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.45		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.19		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	4.61	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.73		1.0	0.18
74-95-3	Dibromomethane	4.07		1.0	0.17
95-50-1	1,2-Dichlorobenzene	5.27		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.45		1.0	0.13
106-46-7	1,4-Dichlorobenzene	5.43		1.0	0.16
75-71-8	Dichlorodifluoromethane	4.08		2.0	0.31
75-34-3	1,1-Dichloroethane	4.93		1.0	0.22
107-06-2	1,2-Dichloroethane	4.29		1.0	0.13
75-35-4	1,1-Dichloroethene	5.12		1.0	0.23
78-87-5	1,2-Dichloropropane	4.42		1.0	0.18
142-28-9	1,3-Dichloropropane	5.05		1.0	0.22
594-20-7	2,2-Dichloropropane	4.92		1.0	0.18
563-58-6	1,1-Dichloropropene	4.66		1.0	0.19
100-41-4	Ethylbenzene	5.37		1.0	0.16
87-68-3	Hexachlorobutadiene	5.40		1.0	0.12
591-78-6	2-Hexanone	18.3		5.0	1.7
98-82-8	Isopropylbenzene	6.40		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-98185/4

Matrix: Water | Lab File ID: E4805.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 21:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-87-6	4-Isopropyltoluene	5.62		1.0	0.20
75-09-2	Methylene Chloride	4.98		2.0	0.32
108-10-1	4-Methyl-2-pentanone	15.3		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.10	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	10.8		2.0	0.34
91-20-3	Naphthalene	4.69		1.0	0.22
104-51-8	n-Butylbenzene	5.73		1.0	0.14
103-65-1	n-Propylbenzene	5.59		1.0	0.16
95-47-6	o-Xylene	5.17		1.0	0.19
135-98-8	sec-Butylbenzene	5.65		1.0	0.17
100-42-5	Styrene	5.06		1.0	0.17
98-06-6	tert-Butylbenzene	5.70		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	5.07		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	5.33		1.0	0.21
127-18-4	Tetrachloroethene	5.34		1.0	0.20
108-88-3	Toluene	4.46		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.66		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.01		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.65		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.83		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.64		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.16		1.0	0.27
79-01-6	Trichloroethene	4.74		1.0	0.16
75-69-4	Trichlorofluoromethane	4.60		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.59		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.56		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.72		1.0	0.16
75-01-4	Vinyl chloride	4.75		1.0	0.10
1330-20-7	Xylenes, Total	16.0		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-98185/4

Matrix: Water Lab File ID: E4805.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 21:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		78-120
1868-53-7	Dibromofluoromethane (Surr)	88		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		70-127
2037-26-5	Toluene-d8 (Surr)	106		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4805.D
Lab Smp Id: LCS
Inj Date : 29-NOV-2011 21:35
Operator : TINKHAMS Inst ID: E.i
Smp Info : LCS,, 1135275/1119226/1132172
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcs-full.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1850658	12.5000		
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	346915	12.5000		
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	432089	12.5000		(Q)
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	351338	11.4435	11.4435	
$ 57 1,2-Dichloroethane-d4	65	7.909	7.916	(0.968)	281107	11.2523	11.2523	
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	1790029	13.7734	13.7734	
$ 98 4-Bromofluorobenzene (Surr)	95	11.377	11.384	(0.916)	512518	13.7507	13.7507	
M 2 Xylene (total)	106				1022815	15.9730	15.9730	
6 dichlorodifluoromethane	85	4.313	4.327	(0.528)	158650	4.08453	4.08453	
8 Chloromethane	50	4.551	4.565	(0.557)	158946	4.67911	4.67911	
9 Vinyl Chloride	62	4.718	4.718	(0.578)	166268	4.75177	4.75177	
12 Bromomethane	94	5.095	5.109	(0.624)	118514	4.41991	4.41991	
13 Chloroethane	64	5.179	5.179	(0.634)	140437	4.70278	4.70278	
15 Trichlorofluoromethane	101	5.458	5.458	(0.668)	269401	4.60377	4.60377	
22 Acetone	43	5.863	5.863	(0.718)	64097	16.5826	16.5826	
24 1,1-Dichloroethene	96	5.905	5.919	(0.723)	217178	5.11881	5.11881	
29 Carbon Disulfide	76	6.207	6.200	(0.760)	567450	3.35167	3.35167	
31 Methylene Chloride	84	6.271	6.272	(0.768)	182751	4.98106	4.98106	
33 Methyl t-butyl ether	73	6.443	6.450	(0.789)	241937	4.10140	4.10140(a)	
34 trans-1,2-Dichloroethene	96	6.493	6.501	(0.795)	203277	4.66332	4.66332	
36 Vinyl acetate	43	6.751	6.758	(0.827)	120007	3.77210	3.77210	
38 1,1-Dichloroethane	63	6.829	6.830	(0.836)	350728	4.92964	4.92964	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
42	2-Butanone	43	7.208	7.209	(0.883)	99477	18.7717	18.7717
45	cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	192210	4.45015	4.45015
46	2,2-Dichloropropane	77	7.294	7.302	(0.893)	285991	4.92280	4.92280(a)
48	Bromochloromethane	128	7.473	7.473	(0.915)	54246	4.04043	4.04043
49	Chloroform	83	7.480	7.480	(0.916)	285725	4.59776	4.59776
53	1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	281722	4.64445	4.64445
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	296635	4.65578	4.65578
56	Carbon Tetrachloride	117	7.845	7.852	(0.961)	247781	4.79516	4.79516
58	1,2-Dichloroethane	62	7.973	7.974	(0.976)	137419	4.28977	4.28977
60	Benzene	78	7.995	7.995	(0.979)	774819	4.60582	4.60582
63	Trichloroethene	95	8.445	8.446	(1.034)	203274	4.74286	4.74286
64	2-Pentanone	43	8.481	8.481	(1.039)	62546	7.45776	7.45776
66	1,2-Dichloropropane	63	8.631	8.631	(1.057)	158406	4.41601	4.41601
69	Dibromomethane	93	8.731	8.732	(1.069)	48596	4.06574	4.06574
70	Bromodichloromethane	83	8.795	8.796	(1.077)	160806	4.38967	4.38967
71	2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	38012	3.96019	3.96018
73	cis-1,3-Dichloropropene	75	9.117	9.118	(1.116)	199157	4.19348	4.19348
74	4-Methyl-2-pentanone	43	9.160	9.161	(1.122)	185156	15.2724	15.2724
76	Toluene	91	9.396	9.397	(1.151)	819785	4.45947	4.45947
78	trans-1,3-Dichloropropene	75	9.489	9.489	(1.162)	139990	4.00582	4.00582
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	73004	4.15954	4.15954
80	2-Hexanone	43	9.768	9.768	(0.933)	123154	18.3290	18.3290
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	138764	5.04886	5.04886
82	Tetrachloroethene	164	9.825	9.826	(0.939)	150072	5.33836	5.33836
83	Dibromochloromethane	129	10.004	10.004	(0.956)	77749	4.62238	4.62238
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	61510	4.73020	4.73020
88	Chlorobenzene	112	10.490	10.490	(1.002)	443065	5.33712	5.33712
89	1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	122913	5.06629	5.06629
90	Ethylbenzene	106	10.526	10.526	(1.005)	288206	5.36594	5.36594
91	m and p-Xylene	106	10.604	10.605	(1.013)	707142	10.7983	10.7983
92	o-Xylene	106	10.941	10.941	(1.045)	315673	5.17463	5.17463
93	Styrene	104	10.941	10.941	(1.045)	458254	5.05548	5.05548
94	Bromoform	173	11.162	11.163	(1.066)	30306	4.44970	4.44970
95	isopropyl benzene	105	11.212	11.213	(0.903)	922675	6.39657	6.39657(R)
99	1,1,2,2-Tetrachloroethane	83	11.427	11.434	(0.920)	67361	5.33255	5.33255
101	1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	19182	5.59394	5.59394
103	Bromobenzene	156	11.570	11.570	(0.931)	136740	5.27850	5.27850
102	n-Propylbenzene	120	11.555	11.556	(0.930)	247586	5.58758	5.58758
105	2-Chlorotoluene	126	11.691	11.692	(0.941)	185987	5.60615	5.60614
104	1,3,5-Trimethylbenzene	105	11.670	11.670	(0.940)	714501	5.72155	5.72155
106	4-Chlorotoluene	126	11.770	11.778	(0.948)	181982	5.52627	5.52627
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	733200	5.69987	5.69987
108	1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	681189	5.55694	5.55694
109	sec-Butylbenzene	134	12.185	12.185	(0.981)	199765	5.64635	5.64634
110	4-Isopropyltoluene	119	12.278	12.285	(0.988)	793349	5.62088	5.62088
111	1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	305129	5.45043	5.45043
113	1,4-dichlorobenzene	146	12.442	12.450	(1.002)	292642	5.42589	5.42589
115	n-Butylbenzene	91	12.678	12.686	(1.021)	805754	5.72683	5.72682
116	1,2-Dichlorobenzene	146	12.842	12.843	(1.034)	236759	5.26591	5.26591
117	1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	8344	4.60926	4.60926
118	1,2,4-Trichlorobenzene	180	14.716	14.723	(1.185)	146803	4.83333	4.83333
119	Hexachlorobutadiene	225	14.880	14.888	(1.198)	115826	5.39700	5.39700
120	Naphthalene	128	15.130	15.138	(1.218)	196918	4.69167	4.69167
121	1,2,3-Trichlorobenzene	180	15.488	15.496	(1.247)	109796	4.65289	4.65288

QC Flag Legend

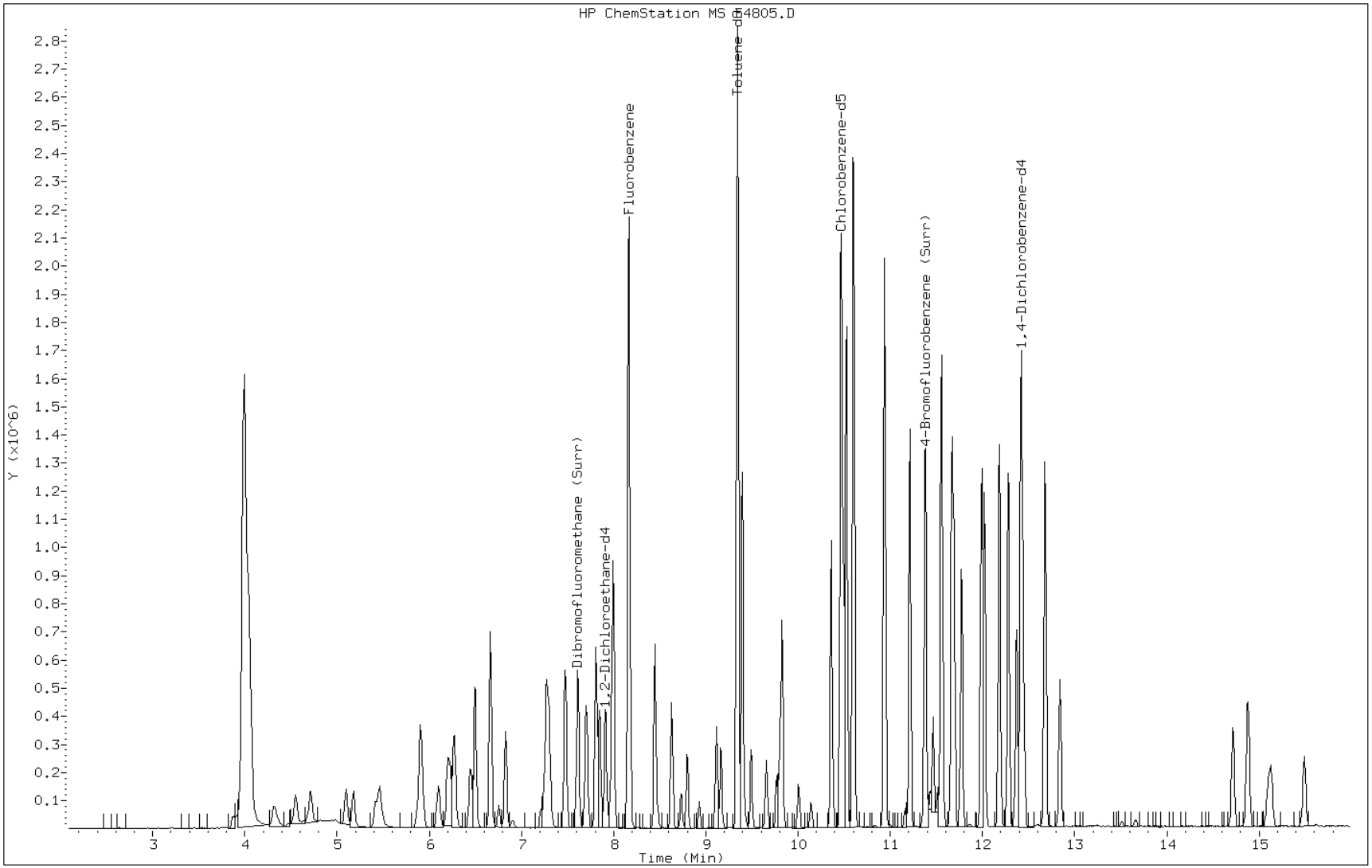
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: E4805.D

Date: 29-NOV-2011 21:35

Client ID: Instrument: E.i

Sample Info: LCS,, 1135275/1119226/1132172 Operator: TINKHAMS



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-22998-C-2 MS

Matrix: Water | Lab File ID: E4811.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 23:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	19.5		10	1.9
71-43-2	Benzene	6.12		1.0	0.16
108-86-1	Bromobenzene	5.13		1.0	0.17
75-27-4	Bromodichloromethane	4.36		1.0	0.17
75-25-2	Bromoform	4.24		1.0	0.19
74-83-9	Bromomethane	3.84		2.0	0.21
78-93-3	2-Butanone (MEK)	18.3		6.0	2.0
56-23-5	Carbon tetrachloride	4.05		1.0	0.19
108-90-7	Chlorobenzene	5.13		1.0	0.17
74-97-5	Bromochloromethane	4.04		1.0	0.10
124-48-1	Dibromochloromethane	4.38		1.0	0.17
75-00-3	Chloroethane	4.96		2.0	0.41
67-66-3	Chloroform	5.28		1.0	0.16
74-87-3	Chloromethane	4.08		2.0	0.30
95-49-8	2-Chlorotoluene	5.15		1.0	0.17
106-43-4	4-Chlorotoluene	5.17		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.61		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.11		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	4.32	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.59		1.0	0.18
74-95-3	Dibromomethane	3.91		1.0	0.17
95-50-1	1,2-Dichlorobenzene	5.06		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.13		1.0	0.13
106-46-7	1,4-Dichlorobenzene	5.15		1.0	0.16
75-71-8	Dichlorodifluoromethane	5.82		2.0	0.31
75-34-3	1,1-Dichloroethane	43.9		1.0	0.22
107-06-2	1,2-Dichloroethane	4.15		1.0	0.13
75-35-4	1,1-Dichloroethene	5.86		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.18		1.0	0.24
78-87-5	1,2-Dichloropropane	4.44		1.0	0.18
142-28-9	1,3-Dichloropropane	4.79		1.0	0.22
594-20-7	2,2-Dichloropropane	4.42		1.0	0.18
563-58-6	1,1-Dichloropropene	4.17		1.0	0.19
100-41-4	Ethylbenzene	5.02		1.0	0.16
87-68-3	Hexachlorobutadiene	4.82		1.0	0.12
591-78-6	2-Hexanone	16.3		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-22998-C-2 MS

Matrix: Water | Lab File ID: E4811.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 23:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.79		1.0	0.19
99-87-6	4-Isopropyltoluene	5.05		1.0	0.20
75-09-2	Methylene Chloride	191		2.0	0.32
108-10-1	4-Methyl-2-pentanone	14.4		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.02	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	11.2		2.0	0.34
91-20-3	Naphthalene	4.73		1.0	0.22
104-51-8	n-Butylbenzene	5.01		1.0	0.14
103-65-1	n-Propylbenzene	5.10		1.0	0.16
95-47-6	o-Xylene	5.21		1.0	0.19
135-98-8	sec-Butylbenzene	5.02		1.0	0.17
100-42-5	Styrene	4.93		1.0	0.17
98-06-6	tert-Butylbenzene	5.19		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.69		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	5.09		1.0	0.21
127-18-4	Tetrachloroethene	7.57		1.0	0.20
108-88-3	Toluene	6.32		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.58		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	3.91		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.77		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.90		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.78		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.08		1.0	0.27
79-01-6	Trichloroethene	5.81		1.0	0.16
75-69-4	Trichlorofluoromethane	4.31		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.32		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.66		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.49		1.0	0.16
75-01-4	Vinyl chloride	4.22		1.0	0.10
1330-20-7	Xylenes, Total	16.4		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-22998-C-2 MS

Matrix: Water Lab File ID: E4811.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 23:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
1868-53-7	Dibromofluoromethane (Surr)	88		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		70-127
2037-26-5	Toluene-d8 (Surr)	106		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4811.D
Lab Smp Id: 280-22998-c-2ms
Inj Date : 29-NOV-2011 23:38
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-22998-c-2ms,,pH<2
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 61 Fluorobenzene	96	8.160	8.166	(1.000)	2031740	12.5000	
* 87 Chlorobenzene-d5	119	10.462	10.469	(1.000)	391198	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.422	12.421	(1.000)	491298	12.5000	(Q)
$ 51 Dibromofluoromethane (Surr)	111	7.610	7.608	(0.933)	386160	11.4567	11.4567
$ 57 1,2-Dichloroethane-d4	65	7.910	7.916	(0.969)	289844	10.5679	10.5679
$ 75 Toluene-d8	98	9.340	9.346	(0.893)	2014712	13.7474	13.7474
$ 98 4-Bromofluorobenzene (Surr)	95	11.378	11.384	(0.916)	568871	13.4233	13.4233
M 1 1,2-Dichloroethene (total)	96				437478	9.18371	9.18371
M 2 Xylene (total)	106				1183769	16.3870	16.3870
6 dichlorodifluoromethane	85	4.316	4.327	(0.529)	255251	5.82350	5.82350(Q)
7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
8 Chloromethane	50	4.567	4.565	(0.560)	152301	4.08389	4.08389
9 Vinyl Chloride	62	4.721	4.718	(0.579)	162056	4.21861	4.21861
11 Ethylene Oxide	43	Compound Not Detected.					
12 Bromomethane	94	5.112	5.109	(0.627)	112925	3.83611	3.83611
13 Chloroethane	64	5.182	5.179	(0.635)	162635	4.96073	4.96072
14 Dichlorofluoromethane	67	5.336	5.334	(0.654)	5598552	61.4503	61.4502(A)
15 Trichlorofluoromethane	101	5.461	5.458	(0.669)	276630	4.30598	4.30598
16 Ethanol	45	Compound Not Detected.					
17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					
18 Ethyl Ether	59	5.615	5.613	(0.688)	23738	1.04644	1.04644(a)
19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	5.866	5.863	(0.719)	80874	19.5249	19.5248
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	5.908	5.919	(0.724)	273096	5.86309	5.86309
25 Iodomethane	142	6.101	6.100	(0.748)	244931	4.33076	4.33076
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	6.201	6.200	(0.760)	568918	3.06084	3.06084
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	6.215	6.215	(0.762)	124103	108.690	108.690
31 Methylene Chloride	84	6.265	6.272	(0.768)	7675738	190.564	190.564(AR)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	6.444	6.450	(0.790)	260343	4.02007	4.02007(a)
34 trans-1,2-Dichloroethene	96	6.494	6.501	(0.796)	219104	4.57841	4.57841
35 Hexane	57	6.659	6.665	(0.636)	332242	4.34364	4.34364
36 Vinyl acetate	43	6.752	6.758	(0.827)	133994	3.83637	3.83637
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	6.823	6.830	(0.836)	3432528	43.9457	43.9457(R)
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	7.209	7.209	(0.883)	106225	18.2585	18.2585
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	7.266	7.273	(0.890)	218374	4.60530	4.60530
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	7.295	7.302	(0.894)	281902	4.41994	4.41994(a)
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	7.467	7.473	(0.915)	59548	4.04003	4.04003
49 Chloroform	83	7.474	7.480	(0.916)	360498	5.28395	5.28395
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	7.702	7.702	(0.944)	318330	4.78023	4.78023
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	7.774	7.780	(0.953)	28603	0.28204	0.282036(aQ)
55 1,1-Dichloropropene	75	7.810	7.809	(0.957)	291455	4.16677	4.16677
56 Carbon Tetrachloride	117	7.845	7.852	(0.961)	229753	4.04999	4.04999
58 1,2-Dichloroethane	62	7.967	7.974	(0.976)	146023	4.14534	4.14534
60 Benzene	78	7.996	7.995	(0.980)	1129553	6.11605	6.11605(R)
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	8.446	8.446	(1.035)	273216	5.80661	5.80661
64 2-Pentanone	43	8.475	8.481	(1.039)	70703	7.67900	7.67900
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	8.625	8.631	(1.057)	174968	4.44298	4.44298
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	8.732	8.732	(1.070)	51357	3.91379	3.91378
70 Bromodichloromethane	83	8.796	8.796	(1.078)	175287	4.35850	4.35850
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	9.111	9.118	(1.117)	214068	4.10571	4.10571
74 4-Methyl-2-pentanone	43	9.161	9.161	(1.123)	191033	14.3527	14.3527
76 Toluene	91	9.397	9.397	(1.152)	1274865	6.31692	6.31692(R)
78 trans-1,3-Dichloropropene	75	9.490	9.489	(1.163)	149868	3.90626	3.90626
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	9.654	9.661	(1.183)	78646	4.08163	4.08163
80	2-Hexanone	43	9.769	9.768	(0.934)	123162	16.2553	16.2553
81	1,3-Dichloropropane	76	9.797	9.804	(0.936)	148524	4.79225	4.79225
82	Tetrachloroethene	164	9.826	9.826	(0.939)	239822	7.56526	7.56526(R)
83	Dibromochloromethane	129	10.005	10.004	(0.956)	82820	4.37518	4.37518
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	10.141	10.140	(0.969)	67358	4.59356	4.59356
86	1-Chlorohexane	91	10.362	10.362	(0.990)	286964	4.64801	4.64801
88	Chlorobenzene	112	10.491	10.490	(1.003)	480700	5.13499	5.13499
89	1,1,1,2-Tetrachloroethane	131	10.527	10.526	(1.006)	128242	4.68759	4.68759
90	Ethylbenzene	106	10.527	10.526	(1.006)	304165	5.02202	5.02202
91	m and p-Xylene	106	10.598	10.605	(1.013)	825309	11.1762	11.1762
92	o-Xylene	106	10.941	10.941	(1.046)	358460	5.21085	5.21085
93	Styrene	104	10.934	10.941	(1.045)	504073	4.93147	4.93147
94	Bromoform	173	11.163	11.163	(1.067)	32593	4.24378	4.24378
95	isopropyl benzene	105	11.213	11.213	(0.903)	949678	5.79033	5.79033
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	11.356	11.363	(1.085)	37887	102.349	102.349
99	1,1,2,2-Tetrachloroethane	83	11.428	11.434	(0.920)	73055	5.08633	5.08633
100	t-1,4-Dichloro-2-butene	53	11.463	11.462	(0.923)	92455	23.6173	23.6173
101	1,2,3-Trichloropropane	110	11.514	11.513	(0.927)	20758	5.32399	5.32399
103	Bromobenzene	156	11.564	11.570	(0.931)	151123	5.13067	5.13067
102	n-Propylbenzene	120	11.549	11.556	(0.930)	256984	5.10073	5.10073
105	2-Chlorotoluene	126	11.692	11.692	(0.941)	194262	5.14989	5.14989
104	1,3,5-Trimethylbenzene	105	11.664	11.670	(0.939)	779073	5.48678	5.48678
106	4-Chlorotoluene	126	11.771	11.778	(0.948)	193681	5.17272	5.17272
107	tert-Butylbenzene	119	11.993	11.992	(0.965)	759333	5.19162	5.19162
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	789441	5.66391	5.66391
109	sec-Butylbenzene	134	12.186	12.185	(0.981)	201753	5.01529	5.01529
110	4-Isopropyltoluene	119	12.279	12.285	(0.988)	810589	5.05090	5.05090
111	1,3-Dichlorobenzene	146	12.372	12.371	(0.996)	326322	5.12651	5.12651
113	1,4-dichlorobenzene	146	12.443	12.450	(1.002)	316024	5.15327	5.15327
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	12.679	12.686	(1.021)	801646	5.01098	5.01098
116	1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	258849	5.06339	5.06339
117	1,2-Dibromo-3-chloropropane	157	13.659	13.665	(1.100)	8889	4.31855	4.31855
118	1,2,4-Trichlorobenzene	180	14.717	14.723	(1.185)	169101	4.89650	4.89650
119	Hexachlorobutadiene	225	14.881	14.888	(1.198)	117621	4.82014	4.82014
120	Naphthalene	128	15.131	15.138	(1.218)	225950	4.73459	4.73459
121	1,2,3-Trichlorobenzene	180	15.489	15.496	(1.247)	128004	4.77076	4.77076

QC Flag Legend

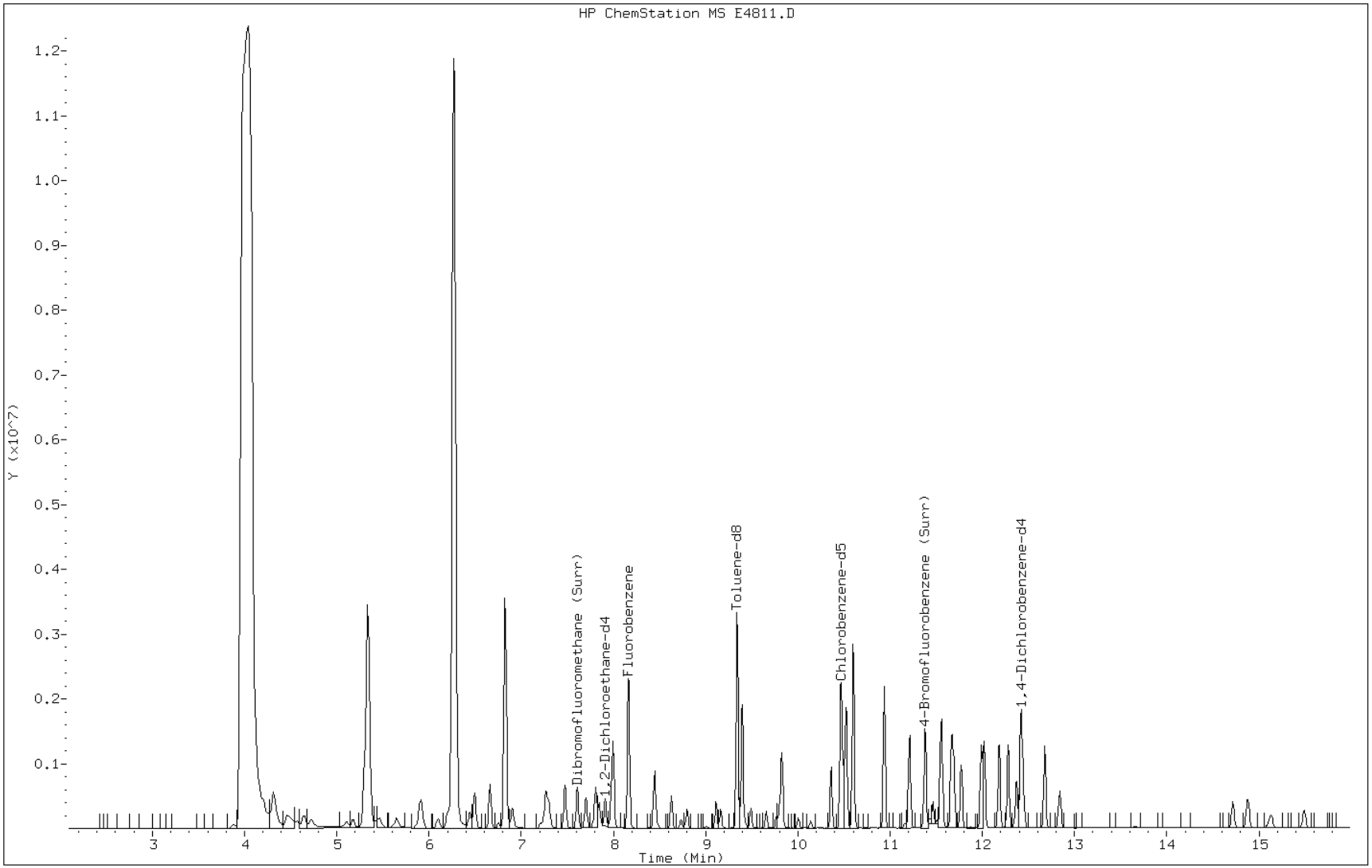
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: E4811.D

Date: 29-NOV-2011 23:38

Client ID: Instrument: E.i

Sample Info: 280-22998-c-2ms,,pH<2 Operator: TINKHAMS



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-22998-C-2 MSD

Matrix: Water | Lab File ID: E4812.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 23:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	21.1		10	1.9
71-43-2	Benzene	6.32		1.0	0.16
108-86-1	Bromobenzene	5.29		1.0	0.17
75-27-4	Bromodichloromethane	4.50		1.0	0.17
75-25-2	Bromoform	4.44		1.0	0.19
74-83-9	Bromomethane	3.99		2.0	0.21
78-93-3	2-Butanone (MEK)	19.7		6.0	2.0
56-23-5	Carbon tetrachloride	4.30		1.0	0.19
108-90-7	Chlorobenzene	5.41		1.0	0.17
74-97-5	Bromochloromethane	4.33		1.0	0.10
124-48-1	Dibromochloromethane	4.59		1.0	0.17
75-00-3	Chloroethane	4.93		2.0	0.41
67-66-3	Chloroform	5.45		1.0	0.16
74-87-3	Chloromethane	4.20		2.0	0.30
95-49-8	2-Chlorotoluene	5.44		1.0	0.17
106-43-4	4-Chlorotoluene	5.38		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.93		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.39		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	4.54	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.83		1.0	0.18
74-95-3	Dibromomethane	4.16		1.0	0.17
95-50-1	1,2-Dichlorobenzene	5.24		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.35		1.0	0.13
106-46-7	1,4-Dichlorobenzene	5.33		1.0	0.16
75-71-8	Dichlorodifluoromethane	5.47		2.0	0.31
75-34-3	1,1-Dichloroethane	43.5		1.0	0.22
107-06-2	1,2-Dichloroethane	4.50		1.0	0.13
75-35-4	1,1-Dichloroethene	5.79		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.70		1.0	0.24
78-87-5	1,2-Dichloropropane	4.71		1.0	0.18
142-28-9	1,3-Dichloropropane	5.05		1.0	0.22
594-20-7	2,2-Dichloropropane	4.58		1.0	0.18
563-58-6	1,1-Dichloropropene	4.33		1.0	0.19
100-41-4	Ethylbenzene	5.28		1.0	0.16
87-68-3	Hexachlorobutadiene	4.90		1.0	0.12
591-78-6	2-Hexanone	17.1		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23017-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-22998-C-2 MSD

Matrix: Water | Lab File ID: E4812.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 23:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	6.01		1.0	0.19
99-87-6	4-Isopropyltoluene	5.23		1.0	0.20
75-09-2	Methylene Chloride	188		2.0	0.32
108-10-1	4-Methyl-2-pentanone	15.4		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.35	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	11.4		2.0	0.34
91-20-3	Naphthalene	4.87		1.0	0.22
104-51-8	n-Butylbenzene	5.10		1.0	0.14
103-65-1	n-Propylbenzene	5.26		1.0	0.16
95-47-6	o-Xylene	5.49		1.0	0.19
135-98-8	sec-Butylbenzene	5.15		1.0	0.17
100-42-5	Styrene	5.09		1.0	0.17
98-06-6	tert-Butylbenzene	5.33		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	5.14		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	5.54		1.0	0.21
127-18-4	Tetrachloroethene	7.66		1.0	0.20
108-88-3	Toluene	6.38		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.77		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.25		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.79		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.95		1.0	0.21
71-55-6	1,1,1-Trichloroethane	5.00		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.42		1.0	0.27
79-01-6	Trichloroethene	5.94		1.0	0.16
75-69-4	Trichlorofluoromethane	4.14		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.50		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.83		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.58		1.0	0.16
75-01-4	Vinyl chloride	3.98		1.0	0.10
1330-20-7	Xylenes, Total	16.9		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-22998-C-2 MSD

Matrix: Water Lab File ID: E4812.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 23:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		70-127
2037-26-5	Toluene-d8 (Surr)	108		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4812.D
Lab Smp Id: 280-22998-c-2msd
Inj Date : 29-NOV-2011 23:57
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-22998-c-2msd,,pH<2
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 61 Fluorobenzene	96	8.167	8.166	(1.000)	2041818	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	392308	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	493882	12.5000	(Q)
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	400904	11.8354	11.8354
$ 57 1,2-Dichloroethane-d4	65	7.909	7.916	(0.968)	305313	11.0770	11.0770
$ 75 Toluene-d8	98	9.347	9.346	(0.893)	2056674	13.9940	13.9940
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	579037	13.5917	13.5917
M 1 1,2-Dichloroethene (total)	96				464200	9.69717	9.69717
M 2 Xylene (total)	106				1222903	16.8893	16.8893
6 dichlorodifluoromethane	85	4.327	4.327	(0.530)	240037	5.47178	5.47178(Q)
7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
8 Chloromethane	50	4.578	4.565	(0.561)	157487	4.20211	4.20211
9 Vinyl Chloride	62	4.732	4.718	(0.579)	153829	3.98468	3.98468
11 Ethylene Oxide	43	Compound Not Detected.					
12 Bromomethane	94	5.123	5.109	(0.627)	118171	3.99451	3.99451
13 Chloroethane	64	5.193	5.179	(0.636)	162351	4.92762	4.92762
14 Dichlorofluoromethane	67	5.346	5.334	(0.655)	5333836	58.2557	58.2557
15 Trichlorofluoromethane	101	5.472	5.458	(0.670)	267434	4.14229	4.14229
16 Ethanol	45	Compound Not Detected.					
17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					
18 Ethyl Ether	59	5.612	5.613	(0.687)	24188	1.06102	1.06102(a)
19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	5.877	5.863	(0.720)	87105	21.1496	21.1496
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	5.919	5.919	(0.725)	270980	5.78895	5.78895
25 Iodomethane	142	6.107	6.100	(0.748)	263671	4.63910	4.63910
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	6.208	6.200	(0.760)	571088	3.05735	3.05735
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	6.215	6.215	(0.761)	127683	111.274	111.274
31 Methylene Chloride	84	6.272	6.272	(0.768)	7627135	188.422	188.422(AR)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	6.451	6.450	(0.790)	282902	4.34685	4.34685(a)
34 trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	229381	4.76951	4.76950
35 Hexane	57	6.665	6.665	(0.637)	318381	4.15065	4.15065
36 Vinyl acetate	43	6.758	6.758	(0.828)	143693	4.09375	4.09375
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	6.830	6.830	(0.836)	3412982	43.4798	43.4798(R)
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	7.209	7.209	(0.883)	115341	19.7276	19.7276
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	234819	4.92766	4.92766
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	7.302	7.302	(0.894)	293429	4.57796	4.57796(a)
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	7.473	7.473	(0.915)	64069	4.32530	4.32530
49 Chloroform	83	7.480	7.480	(0.916)	373467	5.44702	5.44702
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	334576	4.99939	4.99939
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	7.809	7.809	(0.956)	304409	4.33048	4.33048
56 Carbon Tetrachloride	117	7.845	7.852	(0.961)	245208	4.30109	4.30109
58 1,2-Dichloroethane	62	7.974	7.974	(0.976)	158575	4.49640	4.49640
60 Benzene	78	7.995	7.995	(0.979)	1172569	6.31763	6.31762(R)
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	8.446	8.446	(1.034)	281102	5.94472	5.94472
64 2-Pentanone	43	8.481	8.481	(1.039)	73734	7.96866	7.96866
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	8.631	8.631	(1.057)	186267	4.70656	4.70656
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	8.739	8.732	(1.070)	54895	4.16276	4.16276
70 Bromodichloromethane	83	8.796	8.796	(1.077)	181835	4.49900	4.49900
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	230011	4.38972	4.38972
74 4-Methyl-2-pentanone	43	9.168	9.161	(1.123)	206291	15.4226	15.4226
76 Toluene	91	9.397	9.397	(1.151)	1294439	6.38226	6.38226(R)
78 trans-1,3-Dichloropropene	75	9.490	9.489	(1.162)	163885	4.25053	4.25053
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	85577	4.41942	4.41942
80	2-Hexanone	43	9.768	9.768	(0.933)	130101	17.1225	17.1225
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	156953	5.04989	5.04989
82	Tetrachloroethene	164	9.826	9.826	(0.939)	243359	7.65512	7.65512(R)
83	Dibromochloromethane	129	10.004	10.004	(0.956)	87288	4.59017	4.59017
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	71081	4.83374	4.83374
86	1-Chlorohexane	91	10.362	10.362	(0.990)	297140	4.79922	4.79922
88	Chlorobenzene	112	10.491	10.490	(1.002)	507509	5.40604	5.40604
89	1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	140929	5.13676	5.13676
90	Ethylbenzene	106	10.526	10.526	(1.005)	320696	5.27998	5.27998
91	m and p-Xylene	106	10.605	10.605	(1.013)	844072	11.3979	11.3979
92	o-Xylene	106	10.941	10.941	(1.045)	378831	5.49140	5.49140
93	Styrene	104	10.941	10.941	(1.045)	521501	5.08754	5.08754
94	Bromoform	173	11.163	11.163	(1.066)	34227	4.44392	4.44392
95	isopropyl benzene	105	11.213	11.213	(0.903)	990494	6.00759	6.00759(R)
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	11.363	11.363	(1.085)	39265	105.771	105.771
99	1,1,2,2-Tetrachloroethane	83	11.427	11.434	(0.920)	80032	5.54294	5.54294
100	t-1,4-Dichloro-2-butene	53	11.463	11.462	(0.923)	94124	23.9179	23.9178
101	1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	21561	5.50101	5.50101
103	Bromobenzene	156	11.563	11.570	(0.931)	156549	5.28708	5.28708
102	n-Propylbenzene	120	11.549	11.556	(0.930)	266161	5.25524	5.25524
105	2-Chlorotoluene	126	11.692	11.692	(0.941)	206300	5.44040	5.44040
104	1,3,5-Trimethylbenzene	105	11.663	11.670	(0.939)	795793	5.57521	5.57521
106	4-Chlorotoluene	126	11.770	11.778	(0.948)	202551	5.38131	5.38131
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	784340	5.33454	5.33454
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	817398	5.83380	5.83380
109	sec-Butylbenzene	134	12.185	12.185	(0.981)	208067	5.14519	5.14519
110	4-Isopropyltoluene	119	12.278	12.285	(0.988)	843722	5.22985	5.22985
111	1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	342618	5.35436	5.35436
113	1,4-dichlorobenzene	146	12.443	12.450	(1.002)	328458	5.32800	5.32800
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	12.678	12.686	(1.021)	819509	5.09583	5.09583
116	1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	269081	5.23600	5.23600
117	1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	9398	4.54195	4.54195
118	1,2,4-Trichlorobenzene	180	14.723	14.723	(1.185)	171895	4.95136	4.95136
119	Hexachlorobutadiene	225	14.881	14.888	(1.198)	120166	4.89867	4.89866
120	Naphthalene	128	15.131	15.138	(1.218)	233712	4.87162	4.87162
121	1,2,3-Trichlorobenzene	180	15.488	15.496	(1.247)	129125	4.78736	4.78736

QC Flag Legend

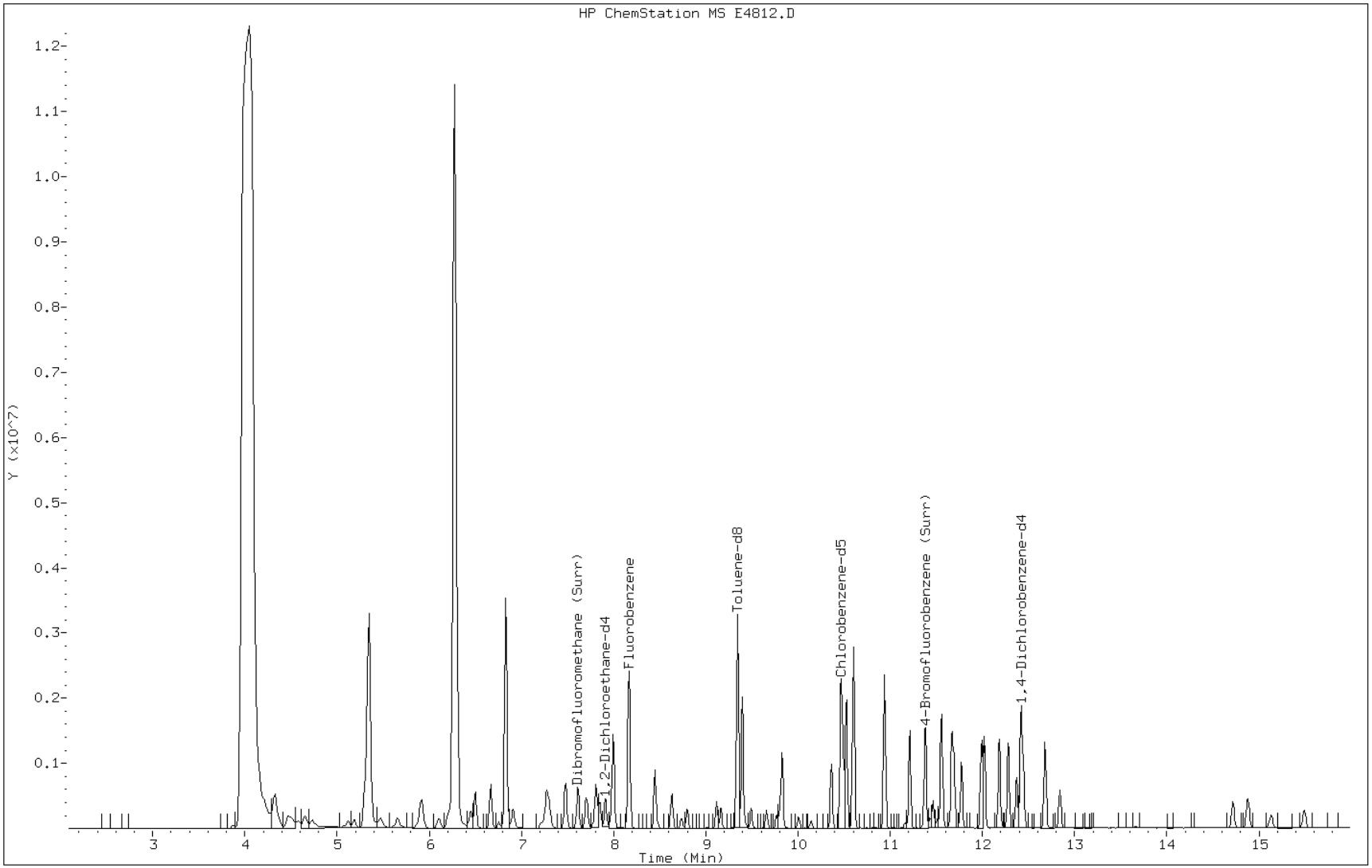
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: E4812.D

Date: 29-NOV-2011 23:57

Client ID: Instrument: E.i

Sample Info: 280-22998-c-2msd,,pH<2 Operator: TINKHAMS



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Instrument ID: MSV_E Start Date: 11/28/2011 10:09

Analysis Batch Number: 97801 End Date: 11/28/2011 21:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-97801/1		11/28/2011 10:09	1	E4601.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/2		11/28/2011 10:19	1	E4602.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/3		11/28/2011 10:38	1	E4603.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/4		11/28/2011 10:57	1	E4604.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/5		11/28/2011 11:16	1	E4605.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/6		11/28/2011 11:35	1	E4606.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/7		11/28/2011 11:55	1	E4607.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/8		11/28/2011 12:14	1	E4608.D	DB-624 (75.53) 0.53(mm)
ICV 280-97801/9		11/28/2011 12:33	1	E4609.D	DB-624 (75.53) 0.53(mm)
ICV 280-97801/10		11/28/2011 12:52	1	E4610.D	DB-624 (75.53) 0.53(mm)
ICV 280-97801/11		11/28/2011 13:11	1	E4611.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/12		11/28/2011 13:31	1	E4612.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/13		11/28/2011 13:50	1	E4613.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/14		11/28/2011 14:09	1	E4614.D	DB-624 (75.53) 0.53(mm)
ICIS 280-97801/15		11/28/2011 14:28	1	E4615.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/16		11/28/2011 14:47	1	E4616.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/17		11/28/2011 15:06	1	E4617.D	DB-624 (75.53) 0.53(mm)
ICV 280-97801/18		11/28/2011 15:25	1	E4618.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 15:44	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 16:04	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 16:23	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 16:42	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 17:01	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 17:20	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 17:39	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 17:58	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 18:18	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 18:37	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 18:56	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 19:15	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 19:34	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 19:53	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 20:12	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 20:31	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 20:50	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 21:10	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 21:29	1		DB-624 (75.53) 0.53(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23017-1

SDG No.:

Instrument ID: MSV_E Start Date: 11/29/2011 20:26

Analysis Batch Number: 98185 End Date: 11/30/2011 05:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-98185/1		11/29/2011 20:26	1	E4802.D	DB-624 (75.53) 0.53(mm)
CCV 280-98185/2		11/29/2011 20:56	1	E4803.D	DB-624 (75.53) 0.53(mm)
CCV 280-98185/3		11/29/2011 21:16	1	E4804.D	DB-624 (75.53) 0.53(mm)
LCS 280-98185/4		11/29/2011 21:35	1	E4805.D	DB-624 (75.53) 0.53(mm)
MB 280-98185/5		11/29/2011 21:59	1	E4806.D	DB-624 (75.53) 0.53(mm)
280-23017-11	TRIP BLANK	11/29/2011 22:22	1	E4807.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		11/29/2011 23:19	1		DB-624 (75.53) 0.53(mm)
280-22998-C-2 MS		11/29/2011 23:38	1	E4811.D	DB-624 (75.53) 0.53(mm)
280-22998-C-2 MSD		11/29/2011 23:57	1	E4812.D	DB-624 (75.53) 0.53(mm)
280-23017-1	MW-18-111611	11/30/2011 00:16	1	E4813.D	DB-624 (75.53) 0.53(mm)
280-23017-2	MW-22-111611	11/30/2011 00:36	1	E4814.D	DB-624 (75.53) 0.53(mm)
280-23017-3	MW-17-111611	11/30/2011 00:55	1	E4815.D	DB-624 (75.53) 0.53(mm)
280-23017-4	MW-19-111611	11/30/2011 01:14	1	E4816.D	DB-624 (75.53) 0.53(mm)
280-23017-5	MW-10-111611	11/30/2011 01:33	1	E4817.D	DB-624 (75.53) 0.53(mm)
280-23017-6	MW-21-111611	11/30/2011 01:52	1	E4818.D	DB-624 (75.53) 0.53(mm)
280-23017-7	MW-20-111611	11/30/2011 02:11	1	E4819.D	DB-624 (75.53) 0.53(mm)
280-23017-8	MW-16-111611	11/30/2011 02:30	1	E4820.D	DB-624 (75.53) 0.53(mm)
280-23017-9	MW-9-111611	11/30/2011 02:49	1	E4821.D	DB-624 (75.53) 0.53(mm)
280-23017-10	MW-DUP-111611	11/30/2011 03:09	1	E4822.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 03:28	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 03:47	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 04:06	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 04:25	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 04:44	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 05:03	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 05:41	1		DB-624 (75.53) 0.53(mm)

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 280-23017-1

Login Number: 23017

List Source: TestAmerica Denver

List Number: 1

Creator: Paulsen, Lindsay T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 280-23016-1

Job Description: MAVERICK KIRTLAND NM

For:
AECOM, Inc.
1601 Prospect Parkway
Fort Collins, CO 80525

Attention: Ms. Ann Biegelsen



Approved for release.
Michael T Dedio
Project Mgmt. Assistant
12/14/2011 8:01 AM

Designee for
Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
12/14/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Data Qualifiers 5

Executive Summary 6

Method Summary 7

Method / Analyst Summary 8

Sample Summary 9

Sample Datasheets 10

Surrogate Summary 22

QC Data Summary 23

QC Association Summary 52

Lab Chronicle 53

Reagent Traceability 56

Manual Integration Summary 73

Organic Sample Data 77

GC/MS VOA 77

Method 8260B 77

Method 8260B QC Summary 78

Method 8260B Sample Data 112

Standards Data 163

Method 8260B ICAL Data 163

Method 8260B CCAL Data 353

Raw QC Data 413

Method 8260B Tune Data 413

Method 8260B Blank Data 441

Table of Contents

Method 8260B LCS/LCSD Data 465
Method 8260B MS/MSD Data 493
Method 8260B Run Logs 535
Shipping and Receiving Documents 559
Client Chain of Custody 560
Sample Receipt Checklist 561

CASE NARRATIVE

Client: AECOM, Inc.

Project: MAVERICK KIRTLAND
Task Number: 60139478.210

Report Number: 280-23016-1

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 11/18/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.6 C.

Samples MW-12-111611, MW-3-111711, MW-15-111711 and MW-5-111711 were placed on hold pending per the Chain of custody. On 11/21/2011, the client instructed the laboratory to analyze with the requested 8260B VOC analyses.

GC/MS VOLATILES - SW846 8260B

Sample MW-14-111611 was received with insufficient preservation. The vial was labeled as being preserved with hydrochloric acid, however, the pH was approximately 7. All vials were of the same result.

Methylene Chloride, a common laboratory contaminant, was detected in the method blanks associated with batches 280-97860, 280-98185 and 280-98252 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated samples reported a result above the MDL and/or RL, the result has been “B” flagged.

The LCS associated with batch 280-98185 failed the recovery criteria high for Isopropylbenzene, and the associated sample results have been flagged “*”. As no detectable concentrations of Isopropylbenzene are present in the associated samples, data are reported as is.

The LCSD associated with batch 280-98252 failed the recovery criteria high for Isopropylbenzene, and the associated sample results have been flagged “*”. As no detectable concentrations of Isopropylbenzene are present in the associated samples, data are reported as is.

The MS and MSD associated with batch 280-97860 exhibited spike compound recoveries outside the control limits. The LCS was within control limits.

The MS and MSD associated with batch 280-98185 exhibited spike compound recoveries outside the control limits. In addition, it can be noted that the sample amount was greater than four times the spike amount for 1,1-Dichloroethane and Methylene chloride; therefore, control limits are not applicable. The LCS was within control limits.

The MS associated with batch 280-98252 exhibited a spike compound recovery outside the control limits for Carbon tetrachloride. The LCS/LCSD were within control limits.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: AECOM, Inc. Job Number: 280-23016-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc. Job Number: 280-23016-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-23016-1	**MW-14-111611**					
Methylene Chloride		0.62	J B	2.0	ug/L	8260B
280-23016-2	**MW-7-111611**					
Acetone		3.0	J	10	ug/L	8260B
280-23016-3	**MW-3-111711**					
Methylene Chloride		0.58	J B	2.0	ug/L	8260B
280-23016-4	**MW-15-111711**					
Acetone		6.4	J	10	ug/L	8260B
Chloroform		0.27	J	1.0	ug/L	8260B
1,4-Dichlorobenzene		0.25	J	1.0	ug/L	8260B
Methylene Chloride		0.60	J B	2.0	ug/L	8260B
280-23016-5	**MW-5-111711**					
Methylene Chloride		0.49	J B	2.0	ug/L	8260B
280-23016-6TB	**TRIP BLANK**					
Acetone		3.7	J	10	ug/L	8260B

METHOD SUMMARY

Client: AECOM, Inc. Job Number: 280-23016-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: AECOM, Inc. Job Number: 280-23016-1

Method	Analyst	Analyst ID
SW846 8260B	Meier, Greg P	GPM
SW846 8260B	Quirk, Patrick J	PJQ
SW846 8260B	Tinkham, Sarah A	SAT

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 280-23016-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-23016-1	MW-14-111611	Water	11/16/2011 1445	11/18/2011 1000
280-23016-2	MW-7-111611	Water	11/16/2011 1550	11/18/2011 1000
280-23016-3	MW-3-111711	Water	11/17/2011 0900	11/18/2011 1000
280-23016-4	MW-15-111711	Water	11/17/2011 0945	11/18/2011 1000
280-23016-5	MW-5-111711	Water	11/17/2011 1045	11/18/2011 1000
280-23016-6TB	TRIP BLANK	Water	11/17/2011 0900	11/18/2011 1000

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **MW-14-111611**

Lab Sample ID: 280-23016-1 Date Sampled: 11/16/2011 1445
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4828.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0503			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0503				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.62	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **MW-14-111611**

Lab Sample ID: 280-23016-1 Date Sampled: 11/16/2011 1445
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4828.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 0503			Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 0503				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	107		78 - 120
Dibromofluoromethane (Surr)	90		77 - 120
1,2-Dichloroethane-d4 (Surr)	92		70 - 127
Toluene-d8 (Surr)	111		80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **MW-7-111611**

Lab Sample ID: 280-23016-2 Date Sampled: 11/16/2011 1550
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ms2850.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 2312			Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 2312				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	3.0	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **MW-7-111611**

Lab Sample ID: 280-23016-2 Date Sampled: 11/16/2011 1550
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ms2850.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 2312			Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 2312				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	97		77 - 120
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	103		80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **MW-3-111711**

Lab Sample ID: 280-23016-3 Date Sampled: 11/17/2011 0900
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4886.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/01/2011 0124			Final Weight/Volume:	20 mL
Prep Date:	12/01/2011 0124				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.58	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **MW-3-111711**

Lab Sample ID: 280-23016-3 Date Sampled: 11/17/2011 0900
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4886.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/01/2011 0124			Final Weight/Volume:	20 mL
Prep Date:	12/01/2011 0124				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	105		78 - 120
Dibromofluoromethane (Surr)	94		77 - 120
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	111		80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **MW-15-111711**

Lab Sample ID: 280-23016-4 Date Sampled: 11/17/2011 0945
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4887.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/01/2011 0144			Final Weight/Volume:	20 mL
Prep Date:	12/01/2011 0144				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	6.4	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.27	J	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.25	J	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.60	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **MW-15-111711**

Lab Sample ID: 280-23016-4 Date Sampled: 11/17/2011 0945
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4887.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/01/2011 0144			Final Weight/Volume:	20 mL
Prep Date:	12/01/2011 0144				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	92		77 - 120
1,2-Dichloroethane-d4 (Surr)	88		70 - 127
Toluene-d8 (Surr)	107		80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **MW-5-111711**

Lab Sample ID: 280-23016-5 Date Sampled: 11/17/2011 1045
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4888.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/01/2011 0203			Final Weight/Volume:	20 mL
Prep Date:	12/01/2011 0203				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U *	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.49	J B	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **MW-5-111711**

Lab Sample ID: 280-23016-5 Date Sampled: 11/17/2011 1045
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	E4888.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/01/2011 0203			Final Weight/Volume:	20 mL
Prep Date:	12/01/2011 0203				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	87		77 - 120
1,2-Dichloroethane-d4 (Surr)	84		70 - 127
Toluene-d8 (Surr)	99		80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-23016-6TB Date Sampled: 11/17/2011 0900
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ms2840.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 1952			Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 1952				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	3.7	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-23016-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-23016-6TB Date Sampled: 11/17/2011 0900
Client Matrix: Water Date Received: 11/18/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ms2840.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 1952			Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 1952				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	96		77 - 120
1,2-Dichloroethane-d4 (Surr)	90		70 - 127
Toluene-d8 (Surr)	103		80 - 125

Client: AECOM, Inc.

Job Number: 280-23016-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-23016-1	MW-14-111611	90	92	111	107
280-23016-2	MW-7-111611	97	93	103	103
280-23016-3	MW-3-111711	94	91	111	105
280-23016-4	MW-15-111711	92	88	107	102
280-23016-5	MW-5-111711	87	84	99	95
280-23016-6	TRIP BLANK	96	90	103	98
MB 280-97860/5		95	94	99	92
MB 280-98185/5		89	87	107	102
MB 280-98252/5		94	92	107	102
LCS 280-97860/4		95	91	94	96
LCS 280-98185/4		88	87	106	106
LCS 280-98252/4		99	94	115	108
LCSD 280-98252/6		89	85	104	99
280-22946-B-1 MS		91	86	96	94
280-22998-C-2 MS		88	81	106	103
280-23072-A-4 MS		93	90	106	105
280-22946-B-1 MSD		94	89	100	97
280-22998-C-2 MSD		91	85	108	105
280-23072-A-4 MSD		94	89	107	103

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Client: AECOM, Inc. Job Number: 280-23016-1

Method Blank - Batch: 280-97860

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-97860/5	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms2837.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 1842	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 1842				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.490	J	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Client: AECOM, Inc. Job Number: 280-23016-1

Method Blank - Batch: 280-97860

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-97860/5	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms2837.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 1842	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 1842				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	92	78 - 120
Dibromofluoromethane (Surr)	95	77 - 120
1,2-Dichloroethane-d4 (Surr)	94	70 - 127
Toluene-d8 (Surr)	99	80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Lab Control Sample - Batch: 280-97860

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-97860/4	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms2836.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 1822	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 1822				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	20.0	18.8	94	48 - 130	
Benzene	5.00	5.57	111	77 - 120	
Bromobenzene	5.00	4.56	91	75 - 120	
Bromodichloromethane	5.00	4.99	100	78 - 120	
Bromoform	5.00	3.94	79	74 - 121	
Bromomethane	5.00	4.35	87	42 - 154	
2-Butanone (MEK)	20.0	22.8	114	57 - 120	
Carbon tetrachloride	5.00	5.05	101	80 - 120	
Chlorobenzene	5.00	5.05	101	78 - 120	
Bromochloromethane	5.00	4.44	89	78 - 120	
Dibromochloromethane	5.00	4.27	85	76 - 120	
Chloroethane	5.00	5.29	106	51 - 133	
Chloroform	5.00	5.17	103	78 - 120	
Chloromethane	5.00	4.31	86	46 - 142	
2-Chlorotoluene	5.00	5.13	103	76 - 120	
4-Chlorotoluene	5.00	5.09	102	78 - 120	
cis-1,2-Dichloroethene	5.00	5.07	101	75 - 120	
cis-1,3-Dichloropropene	5.00	4.80	96	76 - 120	
1,2-Dibromo-3-Chloropropane	5.00	3.70	74	65 - 120	J
1,2-Dibromoethane (EDB)	5.00	4.31	86	77 - 120	
Dibromomethane	5.00	4.63	93	77 - 120	
1,2-Dichlorobenzene	5.00	4.74	95	76 - 120	
1,3-Dichlorobenzene	5.00	5.00	100	75 - 120	
1,4-Dichlorobenzene	5.00	4.99	100	77 - 120	
Dichlorodifluoromethane	5.00	5.02	100	56 - 140	
1,1-Dichloroethane	5.00	5.53	111	77 - 120	
1,2-Dichloroethane	5.00	4.57	91	74 - 120	
1,1-Dichloroethene	5.00	5.61	112	68 - 133	
1,2-Dichloroethene, Total	10.0	10.6	106	78 - 120	
1,2-Dichloropropane	5.00	5.31	106	76 - 120	
1,3-Dichloropropane	5.00	4.59	92	75 - 120	
2,2-Dichloropropane	5.00	5.60	112	72 - 128	
1,1-Dichloropropene	5.00	5.18	104	75 - 120	
Ethylbenzene	5.00	5.13	103	78 - 120	
Hexachlorobutadiene	5.00	5.30	106	73 - 123	
2-Hexanone	20.0	18.8	94	57 - 121	
Isopropylbenzene	5.00	5.73	115	71 - 120	
4-Isopropyltoluene	5.00	5.35	107	76 - 120	
Methylene Chloride	5.00	5.52	110	60 - 134	
4-Methyl-2-pentanone	20.0	18.4	92	65 - 120	
Methyl tert-butyl ether	5.00	3.89	78	58 - 120	J
m-Xylene & p-Xylene	10.0	10.7	107	78 - 120	
Naphthalene	5.00	3.61	72	62 - 121	
n-Butylbenzene	5.00	5.45	109	76 - 120	
n-Propylbenzene	5.00	5.06	101	76 - 120	
o-Xylene	5.00	4.93	99	77 - 120	

Client: AECOM, Inc. Job Number: 280-23016-1

Lab Control Sample - Batch: 280-97860

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-97860/4	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms2836.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 1822	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 1822				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
sec-Butylbenzene	5.00	5.02	100	80 - 120	
Styrene	5.00	4.75	95	77 - 120	
tert-Butylbenzene	5.00	5.18	104	76 - 120	
1,1,1,2-Tetrachloroethane	5.00	4.52	90	77 - 120	
1,1,2,2-Tetrachloroethane	5.00	4.69	94	73 - 120	
Tetrachloroethene	5.00	4.94	99	77 - 120	
Toluene	5.00	5.57	111	73 - 120	
trans-1,2-Dichloroethene	5.00	5.56	111	80 - 120	
trans-1,3-Dichloropropene	5.00	4.97	99	72 - 120	
1,2,3-Trichlorobenzene	5.00	4.17	83	66 - 123	
1,2,4-Trichlorobenzene	5.00	4.45	89	73 - 121	
1,1,1-Trichloroethane	5.00	5.10	102	78 - 120	
1,1,2-Trichloroethane	5.00	4.77	95	76 - 120	
Trichloroethene	5.00	5.07	101	78 - 122	
Trichlorofluoromethane	5.00	5.08	102	63 - 135	
1,2,3-Trichloropropane	5.00	4.36	87	72 - 120	
1,2,4-Trimethylbenzene	5.00	5.29	106	77 - 120	
1,3,5-Trimethylbenzene	5.00	5.31	106	77 - 120	
Vinyl chloride	5.00	4.54	91	49 - 136	
Xylenes, Total	15.0	15.6	104	77 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	96	78 - 120
Dibromofluoromethane (Surr)	95	77 - 120
1,2-Dichloroethane-d4 (Surr)	91	70 - 127
Toluene-d8 (Surr)	94	80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-97860

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22946-B-1 MS	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms2844.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 2113			Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 2113				
Leach Date:	N/A				

MSD Lab Sample ID:	280-22946-B-1 MSD	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms2845.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 2133			Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 2133				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	89	96	48 - 130	7	41		
Benzene	108	108	77 - 120	0	20		
Bromobenzene	86	86	75 - 120	1	20		
Bromodichloromethane	95	97	78 - 120	2	20		
Bromoform	76	75	74 - 121	2	21		
Bromomethane	89	89	42 - 154	0	24		
2-Butanone (MEK)	111	119	57 - 120	7	32		
Carbon tetrachloride	104	99	80 - 120	5	21		
Chlorobenzene	98	98	78 - 120	0	20		
Bromochloromethane	83	86	78 - 120	4	20		
Dibromochloromethane	82	86	76 - 120	4	20		
Chloroethane	103	106	51 - 133	3	25		
Chloroform	100	99	78 - 120	1	20		
Chloromethane	92	90	46 - 142	2	24		
2-Chlorotoluene	96	96	76 - 120	1	20		
4-Chlorotoluene	96	97	78 - 120	0	20		
cis-1,2-Dichloroethene	97	97	75 - 120	1	20		
cis-1,3-Dichloropropene	90	92	76 - 120	3	20		
1,2-Dibromo-3-Chloropropane	70	64	65 - 120	10	22	J	J F
1,2-Dibromoethane (EDB)	83	87	77 - 120	5	20		
Dibromomethane	87	91	77 - 120	4	20		
1,2-Dichlorobenzene	89	88	76 - 120	1	20		
1,3-Dichlorobenzene	93	92	75 - 120	1	20		
1,4-Dichlorobenzene	99	98	77 - 120	2	23		
Dichlorodifluoromethane	104	94	56 - 140	11	24		
1,1-Dichloroethane	106	106	77 - 120	0	21		
1,2-Dichloroethane	87	91	74 - 120	4	20		
1,1-Dichloroethene	113	108	68 - 133	4	20		
1,2-Dichloroethene, Total	103	102	78 - 120	1	20		
1,2-Dichloropropane	100	99	76 - 120	1	20		
1,3-Dichloropropane	89	91	75 - 120	2	20		
2,2-Dichloropropane	111	107	72 - 128	4	24		
1,1-Dichloropropene	104	101	75 - 120	3	21		

Client: AECOM, Inc. Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-97860

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22946-B-1 MS	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms2844.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 2113			Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 2113				
Leach Date:	N/A				

MSD Lab Sample ID:	280-22946-B-1 MSD	Analysis Batch:	280-97860	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms2845.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/28/2011 2133			Final Weight/Volume:	20 mL
Prep Date:	11/28/2011 2133				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ethylbenzene	101	101	78 - 120	1	26		
Hexachlorobutadiene	102	95	73 - 123	7	25		
2-Hexanone	89	94	57 - 121	6	25		
Isopropylbenzene	115	113	71 - 120	2	20		
4-Isopropyltoluene	106	104	76 - 120	2	20		
Methylene Chloride	100	100	60 - 134	0	20		
4-Methyl-2-pentanone	96	101	65 - 120	5	22		
Methyl tert-butyl ether	75	76	58 - 120	1	21	J	J
m-Xylene & p-Xylene	107	105	78 - 120	1	20		
Naphthalene	66	64	62 - 121	2	32		
n-Butylbenzene	108	105	76 - 120	2	21		
n-Propylbenzene	100	98	76 - 120	1	20		
o-Xylene	93	93	77 - 120	0	20		
sec-Butylbenzene	100	98	80 - 120	2	21		
Styrene	0	0	77 - 120	NC	20	U F	U F
tert-Butylbenzene	102	101	76 - 120	0	21		
1,1,1,2-Tetrachloroethane	88	88	77 - 120	0	20		
1,1,2,2-Tetrachloroethane	93	96	73 - 120	4	20		
Tetrachloroethene	100	98	77 - 120	2	20		
Toluene	109	108	73 - 120	1	20		
trans-1,2-Dichloroethene	109	106	80 - 120	3	24		
trans-1,3-Dichloropropene	96	98	72 - 120	2	20		
1,2,3-Trichlorobenzene	76	73	66 - 123	4	29		
1,2,4-Trichlorobenzene	80	77	73 - 121	4	25		
1,1,1-Trichloroethane	102	98	78 - 120	4	20		
1,1,2-Trichloroethane	88	90	76 - 120	2	21		
Trichloroethene	98	96	78 - 122	3	20		
Trichlorofluoromethane	103	95	63 - 135	8	20		
1,2,3-Trichloropropane	84	84	72 - 120	0	23		
1,2,4-Trimethylbenzene	101	101	77 - 120	1	20		
1,3,5-Trimethylbenzene	104	104	77 - 120	0	20		
Vinyl chloride	96	88	49 - 136	8	24		
Xylenes, Total	102	101	77 - 120	1	20		

Client: AECOM, Inc. Job Number: 280-23016-1

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	97	78 - 120
Dibromofluoromethane (Surr)	91	94	77 - 120
1,2-Dichloroethane-d4 (Surr)	86	89	70 - 127
Toluene-d8 (Surr)	96	100	80 - 125

Client: AECOM, Inc.

Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-97860

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22946-B-1 MS	Units: ug/L	MSD Lab Sample ID:	280-22946-B-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/28/2011 2113		Analysis Date:	11/28/2011 2133	
Prep Date:	11/28/2011 2113		Prep Date:	11/28/2011 2133	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acetone	1.9	U	20.0	20.0	17.9		19.1	
Benzene	0.16	U	5.00	5.00	5.39		5.40	
Bromobenzene	0.17	U	5.00	5.00	4.31		4.28	
Bromodichloromethane	0.17	U	5.00	5.00	4.76		4.84	
Bromoform	0.19	U	5.00	5.00	3.80		3.73	
Bromomethane	0.21	U	5.00	5.00	4.45		4.44	
2-Butanone (MEK)	2.0	U	20.0	20.0	22.2		23.7	
Carbon tetrachloride	0.19	U	5.00	5.00	5.21		4.96	
Chlorobenzene	0.17	U	5.00	5.00	4.90		4.88	
Bromochloromethane	0.10	U	5.00	5.00	4.14		4.29	
Dibromochloromethane	0.17	U	5.00	5.00	4.12		4.29	
Chloroethane	0.41	U	5.00	5.00	5.14		5.29	
Chloroform	0.16	U	5.00	5.00	4.99		4.95	
Chloromethane	0.30	U	5.00	5.00	4.59		4.48	
2-Chlorotoluene	0.17	U	5.00	5.00	4.81		4.78	
4-Chlorotoluene	0.21	U	5.00	5.00	4.80		4.83	
cis-1,2-Dichloroethene	0.15	U	5.00	5.00	4.83		4.86	
cis-1,3-Dichloropropene	0.16	U	5.00	5.00	4.51		4.62	
1,2-Dibromo-3-Chloropropane	0.47	U	5.00	5.00	3.50	J	3.18	J F
1,2-Dibromoethane (EDB)	0.18	U	5.00	5.00	4.15		4.36	
Dibromomethane	0.17	U	5.00	5.00	4.36		4.53	
1,2-Dichlorobenzene	0.15	U	5.00	5.00	4.44		4.39	
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.63		4.60	
1,4-Dichlorobenzene	0.16	U	5.00	5.00	4.97		4.90	
Dichlorodifluoromethane	0.31	U	5.00	5.00	5.21		4.68	
1,1-Dichloroethane	0.22	U	5.00	5.00	5.30		5.28	
1,2-Dichloroethane	0.13	U	5.00	5.00	4.36		4.53	
1,1-Dichloroethene	0.23	U	5.00	5.00	5.65		5.42	
1,2-Dichloroethene, Total	0.24	U	10.0	10.0	10.3		10.2	
1,2-Dichloropropane	0.18	U	5.00	5.00	5.00		4.97	
1,3-Dichloropropane	0.22	U	5.00	5.00	4.45		4.56	
2,2-Dichloropropane	0.18	U	5.00	5.00	5.54		5.34	
1,1-Dichloropropene	0.19	U	5.00	5.00	5.20		5.05	
Ethylbenzene	0.16	U	5.00	5.00	5.03		5.06	
Hexachlorobutadiene	0.12	U	5.00	5.00	5.10		4.76	
2-Hexanone	1.7	U	20.0	20.0	17.7		18.8	
Isopropylbenzene	0.19	U	5.00	5.00	5.73		5.64	
4-Isopropyltoluene	0.20	U	5.00	5.00	5.30		5.21	
Methylene Chloride	0.32	U	5.00	5.00	4.99		5.01	
4-Methyl-2-pentanone	0.98	U	20.0	20.0	19.2		20.2	
Methyl tert-butyl ether	0.46	J	5.00	5.00	4.22	J	4.28	J
m-Xylene & p-Xylene	0.34	U	10.0	10.0	10.7		10.5	
Naphthalene	0.22	U	5.00	5.00	3.29		3.21	

Client: AECOM, Inc. Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-97860

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22946-B-1 MS	Units: ug/L	MSD Lab Sample ID:	280-22946-B-1 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	11/28/2011 2113		Analysis Date:	11/28/2011 2133	
Prep Date:	11/28/2011 2113		Prep Date:	11/28/2011 2133	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
n-Butylbenzene	0.14	U	5.00	5.00	5.40		5.27	
n-Propylbenzene	0.16	U	5.00	5.00	4.98		4.90	
o-Xylene	0.19	U	5.00	5.00	4.64		4.64	
sec-Butylbenzene	0.17	U	5.00	5.00	5.00		4.89	
Styrene	0.17	U	5.00	5.00	0.17	U F	0.17	U F
tert-Butylbenzene	0.16	U	5.00	5.00	5.09		5.06	
1,1,1,2-Tetrachloroethane	0.21	U	5.00	5.00	4.39		4.38	
1,1,2,2-Tetrachloroethane	0.21	U	5.00	5.00	4.65		4.82	
Tetrachloroethene	0.20	U	5.00	5.00	4.98		4.90	
Toluene	0.17	U	5.00	5.00	5.45		5.42	
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	5.46		5.30	
trans-1,3-Dichloropropene	0.19	U	5.00	5.00	4.80		4.89	
1,2,3-Trichlorobenzene	0.21	U	5.00	5.00	3.78		3.65	
1,2,4-Trichlorobenzene	0.21	U	5.00	5.00	4.00		3.85	
1,1,1-Trichloroethane	0.16	U	5.00	5.00	5.10		4.89	
1,1,2-Trichloroethane	0.27	U	5.00	5.00	4.42		4.51	
Trichloroethene	0.16	U	5.00	5.00	4.92		4.80	
Trichlorofluoromethane	0.29	U	5.00	5.00	5.17		4.76	
1,2,3-Trichloropropane	0.33	U	5.00	5.00	4.21		4.22	
1,2,4-Trimethylbenzene	0.15	U	5.00	5.00	5.06		5.04	
1,3,5-Trimethylbenzene	0.16	U	5.00	5.00	5.20		5.18	
Vinyl chloride	0.10	U	5.00	5.00	4.79		4.42	
Xylenes, Total	0.19	U	15.0	15.0	15.3		15.2	

Client: AECOM, Inc. Job Number: 280-23016-1

Method Blank - Batch: 280-98185 **Method: 8260B**
Preparation: 5030B

Lab Sample ID:	MB 280-98185/5	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4806.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2159	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2159				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.618	J	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Client: AECOM, Inc. Job Number: 280-23016-1

Method Blank - Batch: 280-98185

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-98185/5	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4806.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2159	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2159				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	102	78 - 120
Dibromofluoromethane (Surr)	89	77 - 120
1,2-Dichloroethane-d4 (Surr)	87	70 - 127
Toluene-d8 (Surr)	107	80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Lab Control Sample - Batch: 280-98185

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-98185/4	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4805.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2135	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2135				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	20.0	16.6	83	48 - 130	
Benzene	5.00	4.61	92	77 - 120	
Bromobenzene	5.00	5.28	106	75 - 120	
Bromodichloromethane	5.00	4.39	88	78 - 120	
Bromoform	5.00	4.45	89	74 - 121	
Bromomethane	5.00	4.42	88	42 - 154	
2-Butanone (MEK)	20.0	18.8	94	57 - 120	
Carbon tetrachloride	5.00	4.80	96	80 - 120	
Chlorobenzene	5.00	5.34	107	78 - 120	
Bromochloromethane	5.00	4.04	81	78 - 120	
Dibromochloromethane	5.00	4.62	92	76 - 120	
Chloroethane	5.00	4.70	94	51 - 133	
Chloroform	5.00	4.60	92	78 - 120	
Chloromethane	5.00	4.68	94	46 - 142	
2-Chlorotoluene	5.00	5.61	112	76 - 120	
4-Chlorotoluene	5.00	5.53	111	78 - 120	
cis-1,2-Dichloroethene	5.00	4.45	89	75 - 120	
cis-1,3-Dichloropropene	5.00	4.19	84	76 - 120	
1,2-Dibromo-3-Chloropropane	5.00	4.61	92	65 - 120	J
1,2-Dibromoethane (EDB)	5.00	4.73	95	77 - 120	
Dibromomethane	5.00	4.07	81	77 - 120	
1,2-Dichlorobenzene	5.00	5.27	105	76 - 120	
1,3-Dichlorobenzene	5.00	5.45	109	75 - 120	
1,4-Dichlorobenzene	5.00	5.43	109	77 - 120	
Dichlorodifluoromethane	5.00	4.08	82	56 - 140	
1,1-Dichloroethane	5.00	4.93	99	77 - 120	
1,2-Dichloroethane	5.00	4.29	86	74 - 120	
1,1-Dichloroethene	5.00	5.12	102	68 - 133	
1,2-Dichloropropane	5.00	4.42	88	76 - 120	
1,3-Dichloropropane	5.00	5.05	101	75 - 120	
2,2-Dichloropropane	5.00	4.92	98	72 - 128	
1,1-Dichloropropene	5.00	4.66	93	75 - 120	
Ethylbenzene	5.00	5.37	107	78 - 120	
Hexachlorobutadiene	5.00	5.40	108	73 - 123	
2-Hexanone	20.0	18.3	92	57 - 121	
Isopropylbenzene	5.00	6.40	128	71 - 120	*
4-Isopropyltoluene	5.00	5.62	112	76 - 120	
Methylene Chloride	5.00	4.98	100	60 - 134	
4-Methyl-2-pentanone	20.0	15.3	76	65 - 120	
Methyl tert-butyl ether	5.00	4.10	82	58 - 120	J
m-Xylene & p-Xylene	10.0	10.8	108	78 - 120	
Naphthalene	5.00	4.69	94	62 - 121	
n-Butylbenzene	5.00	5.73	115	76 - 120	
n-Propylbenzene	5.00	5.59	112	76 - 120	
o-Xylene	5.00	5.17	103	77 - 120	
sec-Butylbenzene	5.00	5.65	113	80 - 120	

Client: AECOM, Inc.

Job Number: 280-23016-1

Lab Control Sample - Batch: 280-98185

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-98185/4	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4805.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2135	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2135				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Styrene	5.00	5.06	101	77 - 120	
tert-Butylbenzene	5.00	5.70	114	76 - 120	
1,1,1,2-Tetrachloroethane	5.00	5.07	101	77 - 120	
1,1,2,2-Tetrachloroethane	5.00	5.33	107	73 - 120	
Tetrachloroethene	5.00	5.34	107	77 - 120	
Toluene	5.00	4.46	89	73 - 120	
trans-1,2-Dichloroethene	5.00	4.66	93	80 - 120	
trans-1,3-Dichloropropene	5.00	4.01	80	72 - 120	
1,2,3-Trichlorobenzene	5.00	4.65	93	66 - 123	
1,2,4-Trichlorobenzene	5.00	4.83	97	73 - 121	
1,1,1-Trichloroethane	5.00	4.64	93	78 - 120	
1,1,2-Trichloroethane	5.00	4.16	83	76 - 120	
Trichloroethene	5.00	4.74	95	78 - 122	
Trichlorofluoromethane	5.00	4.60	92	63 - 135	
1,2,3-Trichloropropane	5.00	5.59	112	72 - 120	
1,2,4-Trimethylbenzene	5.00	5.56	111	77 - 120	
1,3,5-Trimethylbenzene	5.00	5.72	114	77 - 120	
Vinyl chloride	5.00	4.75	95	49 - 136	
Xylenes, Total	15.0	16.0	106	77 - 120	

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	106	78 - 120
Dibromofluoromethane (Surr)	88	77 - 120
1,2-Dichloroethane-d4 (Surr)	87	70 - 127
Toluene-d8 (Surr)	106	80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98185

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22998-C-2 MS	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4811.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2338			Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2338				
Leach Date:	N/A				

MSD Lab Sample ID:	280-22998-C-2 MSD	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4812.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2357			Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2357				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	98	106	48 - 130	8	41		
Benzene	90	94	77 - 120	3	20		
Bromobenzene	103	106	75 - 120	3	20		
Bromodichloromethane	87	90	78 - 120	3	20		
Bromoform	85	89	74 - 121	5	21		
Bromomethane	77	80	42 - 154	4	24		
2-Butanone (MEK)	91	99	57 - 120	8	32		
Carbon tetrachloride	81	86	80 - 120	6	21		
Chlorobenzene	103	108	78 - 120	5	20		
Bromochloromethane	81	87	78 - 120	7	20		
Dibromochloromethane	88	92	76 - 120	5	20		
Chloroethane	99	99	51 - 133	1	25		
Chloroform	89	93	78 - 120	3	20		
Chloromethane	82	84	46 - 142	3	24		
2-Chlorotoluene	103	109	76 - 120	5	20		
4-Chlorotoluene	103	108	78 - 120	4	20		
cis-1,2-Dichloroethene	92	99	75 - 120	7	20		
cis-1,3-Dichloropropene	82	88	76 - 120	7	20		
1,2-Dibromo-3-Chloropropane	86	91	65 - 120	5	22	J	J
1,2-Dibromoethane (EDB)	92	97	77 - 120	5	20		
Dibromomethane	78	83	77 - 120	6	20		
1,2-Dichlorobenzene	101	105	76 - 120	3	20		
1,3-Dichlorobenzene	103	107	75 - 120	4	20		
1,4-Dichlorobenzene	103	107	77 - 120	3	23		
Dichlorodifluoromethane	62	54	56 - 140	6	24		F
1,1-Dichloroethane	145	135	77 - 120	1	21	4	4
1,2-Dichloroethane	83	90	74 - 120	8	20		
1,1-Dichloroethene	117	116	68 - 133	1	20		
1,2-Dichloroethene, Total	92	97	78 - 120	5	20		
1,2-Dichloropropane	89	94	76 - 120	6	20		
1,3-Dichloropropane	96	101	75 - 120	5	20		
2,2-Dichloropropane	88	92	72 - 128	4	24		
1,1-Dichloropropene	83	87	75 - 120	4	21		

Client: AECOM, Inc. Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98185

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22998-C-2 MS	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4811.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2338			Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2338				
Leach Date:	N/A				

MSD Lab Sample ID:	280-22998-C-2 MSD	Analysis Batch:	280-98185	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4812.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/29/2011 2357			Final Weight/Volume:	20 mL
Prep Date:	11/29/2011 2357				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ethylbenzene	100	106	78 - 120	5	26		
Hexachlorobutadiene	96	98	73 - 123	2	25		
2-Hexanone	81	86	57 - 121	5	25		
Isopropylbenzene	116	120	71 - 120	4	20		
4-Isopropyltoluene	101	105	76 - 120	3	20		
Methylene Chloride	-53	-96	60 - 134	1	20	E 4	E 4
4-Methyl-2-pentanone	72	77	65 - 120	7	22		
Methyl tert-butyl ether	80	87	58 - 120	8	21	J	J
m-Xylene & p-Xylene	112	114	78 - 120	2	20		
Naphthalene	95	97	62 - 121	3	32		
n-Butylbenzene	100	102	76 - 120	2	21		
n-Propylbenzene	102	105	76 - 120	3	20		
o-Xylene	104	110	77 - 120	5	20		
sec-Butylbenzene	100	103	80 - 120	3	21		
Styrene	99	102	77 - 120	3	20		
tert-Butylbenzene	104	107	76 - 120	3	21		
1,1,1,2-Tetrachloroethane	94	103	77 - 120	9	20		
1,1,2,2-Tetrachloroethane	102	111	73 - 120	9	20		
Tetrachloroethene	108	110	77 - 120	1	20		
Toluene	86	87	73 - 120	1	20		
trans-1,2-Dichloroethene	92	95	80 - 120	4	24		
trans-1,3-Dichloropropene	78	85	72 - 120	8	20		
1,2,3-Trichlorobenzene	95	96	66 - 123	0	29		
1,2,4-Trichlorobenzene	98	99	73 - 121	1	25		
1,1,1-Trichloroethane	96	100	78 - 120	4	20		
1,1,2-Trichloroethane	82	88	76 - 120	8	21		
Trichloroethene	92	95	78 - 122	2	20		
Trichlorofluoromethane	86	83	63 - 135	4	20		
1,2,3-Trichloropropane	106	110	72 - 120	3	23		
1,2,4-Trimethylbenzene	113	117	77 - 120	3	20		
1,3,5-Trimethylbenzene	110	112	77 - 120	2	20		
Vinyl chloride	84	80	49 - 136	6	24		
Xylenes, Total	109	113	77 - 120	3	20		

Client: AECOM, Inc. Job Number: 280-23016-1

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	103	105	78 - 120
Dibromofluoromethane (Surr)	88	91	77 - 120
1,2-Dichloroethane-d4 (Surr)	81	85	70 - 127
Toluene-d8 (Surr)	106	108	80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98185

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22998-C-2 MS	Units:	ug/L	MSD Lab Sample ID:	280-22998-C-2 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/29/2011 2338			Analysis Date:	11/29/2011 2357
Prep Date:	11/29/2011 2338			Prep Date:	11/29/2011 2357
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acetone	9.5	U	20.0	20.0	19.5		21.1	
Benzene	1.6	J	5.00	5.00	6.12		6.32	
Bromobenzene	0.85	U	5.00	5.00	5.13		5.29	
Bromodichloromethane	0.85	U	5.00	5.00	4.36		4.50	
Bromoform	0.95	U	5.00	5.00	4.24		4.44	
Bromomethane	1.1	U	5.00	5.00	3.84		3.99	
2-Butanone (MEK)	10	U	20.0	20.0	18.3		19.7	
Carbon tetrachloride	0.95	U	5.00	5.00	4.05		4.30	
Chlorobenzene	0.85	U	5.00	5.00	5.13		5.41	
Bromochloromethane	0.50	U	5.00	5.00	4.04		4.33	
Dibromochloromethane	0.85	U	5.00	5.00	4.38		4.59	
Chloroethane	2.1	U	5.00	5.00	4.96		4.93	
Chloroform	0.82	J	5.00	5.00	5.28		5.45	
Chloromethane	1.5	U	5.00	5.00	4.08		4.20	
2-Chlorotoluene	0.85	U	5.00	5.00	5.15		5.44	
4-Chlorotoluene	1.1	U	5.00	5.00	5.17		5.38	
cis-1,2-Dichloroethene	0.75	U	5.00	5.00	4.61		4.93	
cis-1,3-Dichloropropene	0.80	U	5.00	5.00	4.11		4.39	
1,2-Dibromo-3-Chloropropane	2.4	U	5.00	5.00	4.32	J	4.54	J
1,2-Dibromoethane (EDB)	0.90	U	5.00	5.00	4.59		4.83	
Dibromomethane	0.85	U	5.00	5.00	3.91		4.16	
1,2-Dichlorobenzene	0.75	U	5.00	5.00	5.06		5.24	
1,3-Dichlorobenzene	0.65	U	5.00	5.00	5.13		5.35	
1,4-Dichlorobenzene	0.80	U	5.00	5.00	5.15		5.33	
Dichlorodifluoromethane	2.7	J	5.00	5.00	5.82		5.47	F
1,1-Dichloroethane	37		5.00	5.00	43.9	4	43.5	4
1,2-Dichloroethane	0.65	U	5.00	5.00	4.15		4.50	
1,1-Dichloroethene	1.2	J	5.00	5.00	5.86		5.79	
1,2-Dichloroethene, Total	1.2	U	10.0	10.0	9.18		9.70	
1,2-Dichloropropane	0.90	U	5.00	5.00	4.44		4.71	
1,3-Dichloropropane	1.1	U	5.00	5.00	4.79		5.05	
2,2-Dichloropropane	0.90	U	5.00	5.00	4.42		4.58	
1,1-Dichloropropene	0.95	U	5.00	5.00	4.17		4.33	
Ethylbenzene	0.80	U	5.00	5.00	5.02		5.28	
Hexachlorobutadiene	0.60	U	5.00	5.00	4.82		4.90	
2-Hexanone	8.5	U	20.0	20.0	16.3		17.1	
Isopropylbenzene	0.95	U	5.00	5.00	5.79		6.01	
4-Isopropyltoluene	1.0	U	5.00	5.00	5.05		5.23	
Methylene Chloride	190		5.00	5.00	191	E 4	188	E 4
4-Methyl-2-pentanone	4.9	U	20.0	20.0	14.4		15.4	
Methyl tert-butyl ether	1.3	U	5.00	5.00	4.02	J	4.35	J
m-Xylene & p-Xylene	1.7	U	10.0	10.0	11.2		11.4	
Naphthalene	1.1	U	5.00	5.00	4.73		4.87	

Client: AECOM, Inc.

Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98185

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-22998-C-2 MS	Units:	ug/L	MSD Lab Sample ID:	280-22998-C-2 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/29/2011 2338			Analysis Date:	11/29/2011 2357
Prep Date:	11/29/2011 2338			Prep Date:	11/29/2011 2357
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
n-Butylbenzene	0.70	U	5.00	5.00	5.01	5.10
n-Propylbenzene	0.80	U	5.00	5.00	5.10	5.26
o-Xylene	0.95	U	5.00	5.00	5.21	5.49
sec-Butylbenzene	0.85	U	5.00	5.00	5.02	5.15
Styrene	0.85	U	5.00	5.00	4.93	5.09
tert-Butylbenzene	0.80	U	5.00	5.00	5.19	5.33
1,1,1,2-Tetrachloroethane	1.1	U	5.00	5.00	4.69	5.14
1,1,2,2-Tetrachloroethane	1.1	U	5.00	5.00	5.09	5.54
Tetrachloroethene	2.2	J	5.00	5.00	7.57	7.66
Toluene	2.0	J	5.00	5.00	6.32	6.38
trans-1,2-Dichloroethene	0.75	U	5.00	5.00	4.58	4.77
trans-1,3-Dichloropropene	0.95	U	5.00	5.00	3.91	4.25
1,2,3-Trichlorobenzene	1.1	U	5.00	5.00	4.77	4.79
1,2,4-Trichlorobenzene	1.1	U	5.00	5.00	4.90	4.95
1,1,1-Trichloroethane	0.80	U	5.00	5.00	4.78	5.00
1,1,2-Trichloroethane	1.4	U	5.00	5.00	4.08	4.42
Trichloroethene	1.2	J	5.00	5.00	5.81	5.94
Trichlorofluoromethane	1.5	U	5.00	5.00	4.31	4.14
1,2,3-Trichloropropane	1.7	U	5.00	5.00	5.32	5.50
1,2,4-Trimethylbenzene	0.75	U	5.00	5.00	5.66	5.83
1,3,5-Trimethylbenzene	0.80	U	5.00	5.00	5.49	5.58
Vinyl chloride	0.50	U	5.00	5.00	4.22	3.98
Xylenes, Total	0.95	U	15.0	15.0	16.4	16.9

Client: AECOM, Inc. Job Number: 280-23016-1

Method Blank - Batch: 280-98252

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-98252/5	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4869.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 1957	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 1957				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.12	U	0.12	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.843	J	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.14	U	0.14	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Client: AECOM, Inc. Job Number: 280-23016-1

Method Blank - Batch: 280-98252

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-98252/5	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4869.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 1957	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 1957				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	102	78 - 120
Dibromofluoromethane (Surr)	94	77 - 120
1,2-Dichloroethane-d4 (Surr)	92	70 - 127
Toluene-d8 (Surr)	107	80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-98252

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-98252/4	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4868.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 1938	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 1938				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-98252/6	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4870.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 2016	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 2016				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	92	79	48 - 130	16	41		
Benzene	89	94	77 - 120	6	20		
Bromobenzene	105	103	75 - 120	1	20		
Bromodichloromethane	84	87	78 - 120	3	20		
Bromoform	81	81	74 - 121	0	21		
Bromomethane	92	87	42 - 154	6	24		
2-Butanone (MEK)	96	87	57 - 120	10	32		
Carbon tetrachloride	87	99	80 - 120	13	21		
Chlorobenzene	105	110	78 - 120	5	20		
Bromochloromethane	89	86	78 - 120	4	20		
Dibromochloromethane	91	88	76 - 120	3	20		
Chloroethane	94	92	51 - 133	3	25		
Chloroform	91	95	78 - 120	5	20		
Chloromethane	91	84	46 - 142	9	24		
2-Chlorotoluene	105	114	76 - 120	8	20		
4-Chlorotoluene	106	112	78 - 120	5	20		
cis-1,2-Dichloroethene	85	93	75 - 120	8	20		
cis-1,3-Dichloropropene	84	82	76 - 120	2	20		
1,2-Dibromo-3-Chloropropane	73	77	65 - 120	5	22	J	J
1,2-Dibromoethane (EDB)	95	91	77 - 120	4	20		
Dibromomethane	85	81	77 - 120	4	20		
1,2-Dichlorobenzene	106	105	76 - 120	1	20		
1,3-Dichlorobenzene	107	110	75 - 120	2	20		
1,4-Dichlorobenzene	108	110	77 - 120	2	23		
Dichlorodifluoromethane	81	81	56 - 140	0	24		
1,1-Dichloroethane	89	98	77 - 120	10	21		
1,2-Dichloroethane	86	85	74 - 120	2	20		
1,1-Dichloroethene	97	112	68 - 133	15	20		
1,2-Dichloropropane	85	86	76 - 120	1	20		
1,3-Dichloropropane	102	99	75 - 120	4	20		
2,2-Dichloropropane	88	101	72 - 128	14	24		
1,1-Dichloropropene	85	96	75 - 120	13	21		
Ethylbenzene	97	108	78 - 120	10	26		
Hexachlorobutadiene	103	112	73 - 123	8	25		
2-Hexanone	91	83	57 - 121	9	25		
Isopropylbenzene	114	127	71 - 120	11	20		*

Client: AECOM, Inc. Job Number: 280-23016-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-98252

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-98252/4	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4868.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 1938	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 1938				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-98252/6	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4870.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	11/30/2011 2016	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	11/30/2011 2016				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
4-Isopropyltoluene	102	113	76 - 120	10	20		
Methylene Chloride	103	101	60 - 134	2	20		
4-Methyl-2-pentanone	75	73	65 - 120	4	22		
Methyl tert-butyl ether	79	80	58 - 120	2	21	J	J
m-Xylene & p-Xylene	99	107	78 - 120	8	20		
Naphthalene	91	83	62 - 121	10	32		
n-Butylbenzene	103	113	76 - 120	9	21		
n-Propylbenzene	102	111	76 - 120	9	20		
o-Xylene	99	104	77 - 120	5	20		
sec-Butylbenzene	102	114	80 - 120	11	21		
Styrene	96	100	77 - 120	4	20		
tert-Butylbenzene	103	112	76 - 120	8	21		
1,1,1,2-Tetrachloroethane	99	101	77 - 120	2	20		
1,1,2,2-Tetrachloroethane	104	102	73 - 120	2	20		
Tetrachloroethene	102	112	77 - 120	10	20		
Toluene	86	92	73 - 120	7	20		
trans-1,2-Dichloroethene	91	99	80 - 120	8	24		
trans-1,3-Dichloropropene	77	78	72 - 120	1	20		
1,2,3-Trichlorobenzene	97	93	66 - 123	4	29		
1,2,4-Trichlorobenzene	98	97	73 - 121	1	25		
1,1,1-Trichloroethane	87	98	78 - 120	12	20		
1,1,2-Trichloroethane	84	81	76 - 120	5	21		
Trichloroethene	90	96	78 - 122	7	20		
Trichlorofluoromethane	92	93	63 - 135	1	20		
1,2,3-Trichloropropane	109	110	72 - 120	1	23		
1,2,4-Trimethylbenzene	103	111	77 - 120	7	20		
1,3,5-Trimethylbenzene	102	113	77 - 120	10	20		
Vinyl chloride	89	89	49 - 136	0	24		
Xylenes, Total	99	106	77 - 120	7	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	108	99	78 - 120
Dibromofluoromethane (Surr)	99	89	77 - 120
1,2-Dichloroethane-d4 (Surr)	94	85	70 - 127
Toluene-d8 (Surr)	115	104	80 - 125

Client: AECOM, Inc.

Job Number: 280-23016-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-98252

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-98252/4	Units: ug/L		LCSD Lab Sample ID:	LCSD 280-98252/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/30/2011 1938			Analysis Date:	11/30/2011 2016
Prep Date:	11/30/2011 1938			Prep Date:	11/30/2011 2016
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Acetone	20.0	20.0	18.4		15.7	
Benzene	5.00	5.00	4.44		4.71	
Bromobenzene	5.00	5.00	5.24		5.16	
Bromodichloromethane	5.00	5.00	4.22		4.36	
Bromoform	5.00	5.00	4.03		4.04	
Bromomethane	5.00	5.00	4.61		4.33	
2-Butanone (MEK)	20.0	20.0	19.2		17.3	
Carbon tetrachloride	5.00	5.00	4.36		4.95	
Chlorobenzene	5.00	5.00	5.24		5.52	
Bromochloromethane	5.00	5.00	4.46		4.29	
Dibromochloromethane	5.00	5.00	4.53		4.41	
Chloroethane	5.00	5.00	4.70		4.58	
Chloroform	5.00	5.00	4.53		4.77	
Chloromethane	5.00	5.00	4.56		4.18	
2-Chlorotoluene	5.00	5.00	5.25		5.68	
4-Chlorotoluene	5.00	5.00	5.31		5.60	
cis-1,2-Dichloroethene	5.00	5.00	4.27		4.65	
cis-1,3-Dichloropropene	5.00	5.00	4.19		4.11	
1,2-Dibromo-3-Chloropropane	5.00	5.00	3.64	J	3.83	J
1,2-Dibromoethane (EDB)	5.00	5.00	4.75		4.57	
Dibromomethane	5.00	5.00	4.23		4.06	
1,2-Dichlorobenzene	5.00	5.00	5.28		5.24	
1,3-Dichlorobenzene	5.00	5.00	5.37		5.49	
1,4-Dichlorobenzene	5.00	5.00	5.42		5.50	
Dichlorodifluoromethane	5.00	5.00	4.07		4.07	
1,1-Dichloroethane	5.00	5.00	4.47		4.92	
1,2-Dichloroethane	5.00	5.00	4.32		4.23	
1,1-Dichloroethene	5.00	5.00	4.83		5.61	
1,2-Dichloropropane	5.00	5.00	4.24		4.29	
1,3-Dichloropropane	5.00	5.00	5.11		4.93	
2,2-Dichloropropane	5.00	5.00	4.39		5.03	
1,1-Dichloropropene	5.00	5.00	4.24		4.82	
Ethylbenzene	5.00	5.00	4.87		5.39	
Hexachlorobutadiene	5.00	5.00	5.15		5.59	
2-Hexanone	20.0	20.0	18.3		16.7	
Isopropylbenzene	5.00	5.00	5.69		6.34	*
4-Isopropyltoluene	5.00	5.00	5.11		5.63	
Methylene Chloride	5.00	5.00	5.16		5.06	
4-Methyl-2-pentanone	20.0	20.0	15.1		14.5	

Client: AECOM, Inc. Job Number: 280-23016-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-98252

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-98252/4	Units: ug/L		LCSD Lab Sample ID:	LCSD 280-98252/6
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/30/2011 1938			Analysis Date:	11/30/2011 2016
Prep Date:	11/30/2011 1938			Prep Date:	11/30/2011 2016
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methyl tert-butyl ether	5.00	5.00	3.94 J	4.02 J
m-Xylene & p-Xylene	10.0	10.0	9.93	10.7
Naphthalene	5.00	5.00	4.57	4.16
n-Butylbenzene	5.00	5.00	5.16	5.66
n-Propylbenzene	5.00	5.00	5.09	5.56
o-Xylene	5.00	5.00	4.94	5.20
sec-Butylbenzene	5.00	5.00	5.08	5.68
Styrene	5.00	5.00	4.80	5.02
tert-Butylbenzene	5.00	5.00	5.17	5.60
1,1,1,2-Tetrachloroethane	5.00	5.00	4.96	5.05
1,1,2,2-Tetrachloroethane	5.00	5.00	5.22	5.09
Tetrachloroethene	5.00	5.00	5.09	5.60
Toluene	5.00	5.00	4.29	4.61
trans-1,2-Dichloroethene	5.00	5.00	4.53	4.93
trans-1,3-Dichloropropene	5.00	5.00	3.86	3.91
1,2,3-Trichlorobenzene	5.00	5.00	4.86	4.66
1,2,4-Trichlorobenzene	5.00	5.00	4.89	4.86
1,1,1-Trichloroethane	5.00	5.00	4.34	4.89
1,1,2-Trichloroethane	5.00	5.00	4.22	4.03
Trichloroethene	5.00	5.00	4.48	4.82
Trichlorofluoromethane	5.00	5.00	4.61	4.64
1,2,3-Trichloropropane	5.00	5.00	5.46	5.49
1,2,4-Trimethylbenzene	5.00	5.00	5.15	5.54
1,3,5-Trimethylbenzene	5.00	5.00	5.11	5.66
Vinyl chloride	5.00	5.00	4.46	4.45
Xylenes, Total	15.0	15.0	14.9	15.9

Client: AECOM, Inc. Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98252

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-23072-A-4 MS	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4882.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/01/2011 0006			Final Weight/Volume:	20 mL
Prep Date:	12/01/2011 0006				
Leach Date:	N/A				

MSD Lab Sample ID:	280-23072-A-4 MSD	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4883.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/01/2011 0025			Final Weight/Volume:	20 mL
Prep Date:	12/01/2011 0025				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	85	81	48 - 130	5	41		
Benzene	87	91	77 - 120	5	20		
Bromobenzene	104	106	75 - 120	1	20		
Bromodichloromethane	86	86	78 - 120	0	20		
Bromoform	78	80	74 - 121	3	21		
Bromomethane	69	72	42 - 154	4	24		
2-Butanone (MEK)	88	93	57 - 120	5	32		
Carbon tetrachloride	77	83	80 - 120	8	21	F	
Chlorobenzene	104	109	78 - 120	4	20		
Bromochloromethane	84	85	78 - 120	1	20		
Dibromochloromethane	87	85	76 - 120	2	20		
Chloroethane	79	83	51 - 133	4	25		
Chloroform	90	94	78 - 120	5	20		
Chloromethane	75	77	46 - 142	3	24		
2-Chlorotoluene	105	108	76 - 120	2	20		
4-Chlorotoluene	104	107	78 - 120	3	20		
cis-1,2-Dichloroethene	86	81	75 - 120	3	20		
cis-1,3-Dichloropropene	80	81	76 - 120	1	20		
1,2-Dibromo-3-Chloropropane	78	76	65 - 120	2	22	J	J
1,2-Dibromoethane (EDB)	91	92	77 - 120	1	20		
Dibromomethane	81	81	77 - 120	0	20		
1,2-Dichlorobenzene	103	105	76 - 120	2	20		
1,3-Dichlorobenzene	103	106	75 - 120	3	20		
1,4-Dichlorobenzene	103	107	77 - 120	3	23		
Dichlorodifluoromethane	65	72	56 - 140	10	24		
1,1-Dichloroethane	92	96	77 - 120	5	21		
1,2-Dichloroethane	85	83	74 - 120	2	20		
1,1-Dichloroethene	76	91	68 - 133	17	20		
1,2-Dichloroethene, Total	85	87	78 - 120	1	20		
1,2-Dichloropropane	85	86	76 - 120	1	20		
1,3-Dichloropropane	97	98	75 - 120	1	20		
2,2-Dichloropropane	83	88	72 - 128	6	24		
1,1-Dichloropropene	77	83	75 - 120	7	21		

Client: AECOM, Inc. Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98252

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-23072-A-4 MS	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4882.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/01/2011 0006			Final Weight/Volume:	20 mL
Prep Date:	12/01/2011 0006				
Leach Date:	N/A				

MSD Lab Sample ID:	280-23072-A-4 MSD	Analysis Batch:	280-98252	Instrument ID:	MSV_E
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E4883.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/01/2011 0025			Final Weight/Volume:	20 mL
Prep Date:	12/01/2011 0025				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ethylbenzene	95	102	78 - 120	8	26		
Hexachlorobutadiene	85	91	73 - 123	7	25		
2-Hexanone	79	79	57 - 121	1	25		
Isopropylbenzene	110	119	71 - 120	8	20		
4-Isopropyltoluene	94	102	76 - 120	8	20		
Methylene Chloride	85	88	60 - 134	3	20		
4-Methyl-2-pentanone	72	71	65 - 120	2	22		
Methyl tert-butyl ether	78	83	58 - 120	6	21	J	J
m-Xylene & p-Xylene	96	102	78 - 120	7	20		
Naphthalene	81	79	62 - 121	2	32		
n-Butylbenzene	92	99	76 - 120	7	21		
n-Propylbenzene	97	106	76 - 120	9	20		
o-Xylene	95	100	77 - 120	5	20		
sec-Butylbenzene	92	102	80 - 120	11	21		
Styrene	94	97	77 - 120	4	20		
tert-Butylbenzene	97	103	76 - 120	6	21		
1,1,1,2-Tetrachloroethane	96	101	77 - 120	5	20		
1,1,2,2-Tetrachloroethane	107	105	73 - 120	2	20		
Tetrachloroethene	94	103	77 - 120	9	20		
Toluene	84	89	73 - 120	6	20		
trans-1,2-Dichloroethene	85	92	80 - 120	7	24		
trans-1,3-Dichloropropene	77	76	72 - 120	2	20		
1,2,3-Trichlorobenzene	82	85	66 - 123	3	29		
1,2,4-Trichlorobenzene	87	87	73 - 121	0	25		
1,1,1-Trichloroethane	81	88	78 - 120	8	20		
1,1,2-Trichloroethane	85	83	76 - 120	2	21		
Trichloroethene	82	87	78 - 122	4	20		
Trichlorofluoromethane	76	78	63 - 135	4	20		
1,2,3-Trichloropropane	110	111	72 - 120	1	23		
1,2,4-Trimethylbenzene	101	105	77 - 120	4	20		
1,3,5-Trimethylbenzene	102	106	77 - 120	5	20		
Vinyl chloride	74	82	49 - 136	10	24		
Xylenes, Total	96	102	77 - 120	6	20		

Client: AECOM, Inc. Job Number: 280-23016-1

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	105	103	78 - 120
Dibromofluoromethane (Surr)	93	94	77 - 120
1,2-Dichloroethane-d4 (Surr)	90	89	70 - 127
Toluene-d8 (Surr)	106	107	80 - 125

Client: AECOM, Inc. Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98252

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-23072-A-4 MS	Units:	ug/L	MSD Lab Sample ID:	280-23072-A-4 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/01/2011 0006			Analysis Date:	12/01/2011 0025
Prep Date:	12/01/2011 0006			Prep Date:	12/01/2011 0025
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acetone	1.9	U	20.0	20.0	17.1		16.2	
Benzene	0.16	U	5.00	5.00	4.36		4.57	
Bromobenzene	0.17	U	5.00	5.00	5.22		5.28	
Bromodichloromethane	0.17	U	5.00	5.00	4.29		4.29	
Bromoform	0.19	U	5.00	5.00	3.89		4.01	
Bromomethane	0.21	U	5.00	5.00	3.46		3.61	
2-Butanone (MEK)	2.0	U	20.0	20.0	17.6		18.5	
Carbon tetrachloride	0.19	U	5.00	5.00	3.84	F	4.17	
Chlorobenzene	0.17	U	5.00	5.00	5.22		5.44	
Bromochloromethane	0.10	U	5.00	5.00	4.21		4.24	
Dibromochloromethane	0.17	U	5.00	5.00	4.35		4.25	
Chloroethane	0.41	U	5.00	5.00	3.95		4.13	
Chloroform	0.16	U	5.00	5.00	4.48		4.71	
Chloromethane	0.30	U	5.00	5.00	3.73		3.86	
2-Chlorotoluene	0.17	U	5.00	5.00	5.26		5.39	
4-Chlorotoluene	0.21	U	5.00	5.00	5.19		5.35	
cis-1,2-Dichloroethene	3.9		5.00	5.00	8.22		8.02	
cis-1,3-Dichloropropene	0.16	U	5.00	5.00	4.01		4.05	
1,2-Dibromo-3-Chloropropane	0.47	U	5.00	5.00	3.88	J	3.79	J
1,2-Dibromoethane (EDB)	0.18	U	5.00	5.00	4.55		4.59	
Dibromomethane	0.17	U	5.00	5.00	4.03		4.04	
1,2-Dichlorobenzene	0.15	U	5.00	5.00	5.17		5.26	
1,3-Dichlorobenzene	0.13	U	5.00	5.00	5.14		5.30	
1,4-Dichlorobenzene	0.16	U	5.00	5.00	5.17		5.33	
Dichlorodifluoromethane	0.31	U	5.00	5.00	3.24		3.59	
1,1-Dichloroethane	0.22	U	5.00	5.00	4.58		4.80	
1,2-Dichloroethane	0.13	U	5.00	5.00	4.24		4.17	
1,1-Dichloroethene	0.23	U	5.00	5.00	3.81		4.53	
1,2-Dichloroethene, Total	4.2		10.0	10.0	12.7		12.8	
1,2-Dichloropropane	0.18	U	5.00	5.00	4.27		4.30	
1,3-Dichloropropane	0.22	U	5.00	5.00	4.84		4.90	
2,2-Dichloropropane	0.18	U	5.00	5.00	4.15		4.40	
1,1-Dichloropropene	0.19	U	5.00	5.00	3.85		4.14	
Ethylbenzene	0.16	U	5.00	5.00	4.74		5.12	
Hexachlorobutadiene	0.12	U	5.00	5.00	4.24		4.53	
2-Hexanone	1.7	U	20.0	20.0	15.7		15.8	
Isopropylbenzene	0.19	U	5.00	5.00	5.48		5.93	
4-Isopropyltoluene	0.20	U	5.00	5.00	4.68		5.08	
Methylene Chloride	0.52	J	5.00	5.00	4.75		4.90	
4-Methyl-2-pentanone	0.98	U	20.0	20.0	14.5		14.2	
Methyl tert-butyl ether	0.25	U	5.00	5.00	3.90	J	4.13	J
m-Xylene & p-Xylene	0.34	U	10.0	10.0	9.60		10.2	
Naphthalene	0.22	U	5.00	5.00	4.03		3.96	

Client: AECOM, Inc.

Job Number: 280-23016-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-98252

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-23072-A-4 MS	Units: ug/L	MSD Lab Sample ID:	280-23072-A-4 MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	12/01/2011 0006		Analysis Date:	12/01/2011 0025	
Prep Date:	12/01/2011 0006		Prep Date:	12/01/2011 0025	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
n-Butylbenzene	0.14	U	5.00	5.00	4.60	4.93
n-Propylbenzene	0.16	U	5.00	5.00	4.83	5.29
o-Xylene	0.19	U	5.00	5.00	4.74	5.00
sec-Butylbenzene	0.17	U	5.00	5.00	4.60	5.11
Styrene	0.17	U	5.00	5.00	4.68	4.86
tert-Butylbenzene	0.16	U	5.00	5.00	4.87	5.15
1,1,1,2-Tetrachloroethane	0.21	U	5.00	5.00	4.78	5.03
1,1,2,2-Tetrachloroethane	0.21	U	5.00	5.00	5.35	5.27
Tetrachloroethene	0.20	U	5.00	5.00	4.69	5.14
Toluene	0.17	U	5.00	5.00	4.19	4.43
trans-1,2-Dichloroethene	0.25	J	5.00	5.00	4.50	4.83
trans-1,3-Dichloropropene	0.19	U	5.00	5.00	3.87	3.78
1,2,3-Trichlorobenzene	0.21	U	5.00	5.00	4.12	4.25
1,2,4-Trichlorobenzene	0.21	U	5.00	5.00	4.33	4.33
1,1,1-Trichloroethane	0.16	U	5.00	5.00	4.07	4.39
1,1,2-Trichloroethane	0.27	U	5.00	5.00	4.25	4.17
Trichloroethene	1.6		5.00	5.00	5.72	5.95
Trichlorofluoromethane	0.29	U	5.00	5.00	3.78	3.92
1,2,3-Trichloropropane	0.33	U	5.00	5.00	5.48	5.53
1,2,4-Trimethylbenzene	0.15	U	5.00	5.00	5.03	5.23
1,3,5-Trimethylbenzene	0.16	U	5.00	5.00	5.08	5.32
Vinyl chloride	0.10	U	5.00	5.00	3.71	4.09
Xylenes, Total	0.19	U	15.0	15.0	14.3	15.3

Client: AECOM, Inc. Job Number: 280-23016-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-97860					
LCS 280-97860/4	Lab Control Sample	T	Water	8260B	
MB 280-97860/5	Method Blank	T	Water	8260B	
280-22946-B-1 MS	Matrix Spike	T	Water	8260B	
280-22946-B-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-23016-2	MW-7-111611	T	Water	8260B	
280-23016-6TB	TRIP BLANK	T	Water	8260B	
Analysis Batch:280-98185					
LCS 280-98185/4	Lab Control Sample	T	Water	8260B	
MB 280-98185/5	Method Blank	T	Water	8260B	
280-22998-C-2 MS	Matrix Spike	T	Water	8260B	
280-22998-C-2 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-23016-1	MW-14-111611	T	Water	8260B	
Analysis Batch:280-98252					
LCS 280-98252/4	Lab Control Sample	T	Water	8260B	
LCSD 280-98252/6	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-98252/5	Method Blank	T	Water	8260B	
280-23016-3	MW-3-111711	T	Water	8260B	
280-23016-4	MW-15-111711	T	Water	8260B	
280-23016-5	MW-5-111711	T	Water	8260B	
280-23072-A-4 MS	Matrix Spike	T	Water	8260B	
280-23072-A-4 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis
T = Total

Client: AECOM, Inc. Job Number: 280-23016-1

Laboratory Chronicle

Lab ID: 280-23016-1 **Client ID:** MW-14-111611

Sample Date/Time: 11/16/2011 14:45 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23016-B-1		280-98185		11/30/2011 05:03	1	TAL DEN	SAT
A:8260B	280-23016-B-1		280-98185		11/30/2011 05:03	1	TAL DEN	SAT

Lab ID: 280-23016-2 **Client ID:** MW-7-111611

Sample Date/Time: 11/16/2011 15:50 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23016-A-2		280-97860		11/28/2011 23:12	1	TAL DEN	GPM
A:8260B	280-23016-A-2		280-97860		11/28/2011 23:12	1	TAL DEN	GPM

Lab ID: 280-23016-3 **Client ID:** MW-3-111711

Sample Date/Time: 11/17/2011 09:00 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23016-A-3		280-98252		12/01/2011 01:24	1	TAL DEN	PJQ
A:8260B	280-23016-A-3		280-98252		12/01/2011 01:24	1	TAL DEN	PJQ

Lab ID: 280-23016-4 **Client ID:** MW-15-111711

Sample Date/Time: 11/17/2011 09:45 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23016-A-4		280-98252		12/01/2011 01:44	1	TAL DEN	PJQ
A:8260B	280-23016-A-4		280-98252		12/01/2011 01:44	1	TAL DEN	PJQ

Lab ID: 280-23016-5 **Client ID:** MW-5-111711

Sample Date/Time: 11/17/2011 10:45 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23016-A-5		280-98252		12/01/2011 02:03	1	TAL DEN	PJQ
A:8260B	280-23016-A-5		280-98252		12/01/2011 02:03	1	TAL DEN	PJQ

Lab ID: 280-23016-6 **Client ID:** TRIP BLANK

Sample Date/Time: 11/17/2011 09:00 Received Date/Time: 11/18/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-23016-A-6		280-97860		11/28/2011 19:52	1	TAL DEN	GPM
A:8260B	280-23016-A-6		280-97860		11/28/2011 19:52	1	TAL DEN	GPM

Client: AECOM, Inc. Job Number: 280-23016-1

Laboratory Chronicle

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-97860/5		280-97860		11/28/2011 18:42	1	TAL DEN	GPM
A:8260B	MB 280-97860/5		280-97860		11/28/2011 18:42	1	TAL DEN	GPM
P:5030B	MB 280-98185/5		280-98185		11/29/2011 21:59	1	TAL DEN	SAT
A:8260B	MB 280-98185/5		280-98185		11/29/2011 21:59	1	TAL DEN	SAT
P:5030B	MB 280-98252/5		280-98252		11/30/2011 19:57	1	TAL DEN	PJQ
A:8260B	MB 280-98252/5		280-98252		11/30/2011 19:57	1	TAL DEN	PJQ

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-97860/4		280-97860		11/28/2011 18:22	1	TAL DEN	GPM
A:8260B	LCS 280-97860/4		280-97860		11/28/2011 18:22	1	TAL DEN	GPM
P:5030B	LCS 280-98185/4		280-98185		11/29/2011 21:35	1	TAL DEN	SAT
A:8260B	LCS 280-98185/4		280-98185		11/29/2011 21:35	1	TAL DEN	SAT
P:5030B	LCS 280-98252/4		280-98252		11/30/2011 19:38	1	TAL DEN	PJQ
A:8260B	LCS 280-98252/4		280-98252		11/30/2011 19:38	1	TAL DEN	PJQ

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-98252/6		280-98252		11/30/2011 20:16	1	TAL DEN	PJQ
A:8260B	LCSD 280-98252/6		280-98252		11/30/2011 20:16	1	TAL DEN	PJQ

Lab ID: MS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-22946-B-1 MS		280-97860		11/28/2011 21:13	1	TAL DEN	GPM
A:8260B	280-22946-B-1 MS		280-97860		11/28/2011 21:13	1	TAL DEN	GPM
P:5030B	280-22998-C-2 MS		280-98185		11/29/2011 23:38	1	TAL DEN	SAT
A:8260B	280-22998-C-2 MS		280-98185		11/29/2011 23:38	1	TAL DEN	SAT
P:5030B	280-23072-A-4 MS		280-98252		12/01/2011 00:06	1	TAL DEN	PJQ
A:8260B	280-23072-A-4 MS		280-98252		12/01/2011 00:06	1	TAL DEN	PJQ

Client: AECOM, Inc. Job Number: 280-23016-1

Laboratory Chronicle

Lab ID: MSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-22946-B-1 MSD		280-97860		11/28/2011 21:33	1	TAL DEN	GPM
A:8260B	280-22946-B-1 MSD		280-97860		11/28/2011 21:33	1	TAL DEN	GPM
P:5030B	280-22998-C-2 MSD		280-98185		11/29/2011 23:57	1	TAL DEN	SAT
A:8260B	280-22998-C-2 MSD		280-98185		11/29/2011 23:57	1	TAL DEN	SAT
P:5030B	280-23072-A-4 MSD		280-98252		12/01/2011 00:25	1	TAL DEN	PJQ
A:8260B	280-23072-A-4 MSD		280-98252		12/01/2011 00:25	1	TAL DEN	PJQ

Lab References:
TAL DEN = TestAmerica Denver

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MV-2 Cleve_00009	04/30/12	09/14/11	P&T Methanol, Lot DD946	10 mL	MV-861206_00012	200 uL	2-Chloroethyl vinyl ether	40 ug/mL
.MV-861206_00012	06/30/12		Supelco, Lot LB68013		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
MV-2 Cleve_00010	05/08/12	11/08/11	P&T Methanol, Lot DE977	5 mL	MV-861206_00014	0.1 mL	2-Chloroethyl vinyl ether	40 ug/mL
.MV-861206_00014	03/31/13		Supelco, Lot LB74679		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
MV-524 A_00012	03/07/12	09/07/11	Methanol, Lot DD471	10 mL	MV-DWM589N_00026	200 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Xylenes, Total	120 ug/mL
.MV-DWM589N_00026	12/31/13	Ultra Scientific, Lot CG-3928			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
MV-524 A_00013	05/17/12	11/17/11	Methanol, Lot de997	10 mL	MV-DWM589N_00032	200 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Xylenes, Total	120 ug/mL
					MV-STS440_00032	200 uL	Methyl tert-butyl ether	40 ug/mL
.MV-DWM589N_00032	12/31/13	Ultra Scientific, Lot CG-3928			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
.MV-STS440_00032	01/31/15		Ultra, Lot cc-4444		(Purchased Reagent)		Methyl tert-butyl ether	2000 ug/mL
MV-Archon IS_00387	03/12/12		Supelco, Lot LB80013		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
MV-Archon IS_00395	03/25/12		Supelco, Lot LB80013		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
MV-Archon IS_00437	05/28/12		Supelco, Lot LB80013		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
MV-Archon SS_00438	03/13/12		Restek, Lot A081609		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
MV-Archon SS_00458	03/28/12		Restek, Lot A081609		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
MV-Archon SS_00510	05/01/12		Restek, Lot A081609		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MV-Archon SS_00520	05/08/12		Restek, Lot A081609		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
MV-Archon SS_00530	05/14/12		Restek, Lot A081609		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
MV-BO mix B_00007	01/31/12	08/06/11	P&T Methanol, Lot Dd9646	10 mL	MV-561149_00008	200 uL	2-Chloro-1,1,1-Trifluoroethane	40 ug/mL
							Chlorotrifluoroethene	40 ug/mL
.MV-561149_00008	02/28/14		Restek, Lot A065780		(Purchased Reagent)		2-Chloro-1,1,1-Trifluoroethane	2000 ug/mL
							Chlorotrifluoroethene	2000 ug/mL
MV-Main GasKe_00022	12/20/11	10/13/11	P&T Methanol, Lot de821	10 mL	MV- Acrolein_00008	100 uL	Acrolein	400.16 ug/mL
					MV-5M06036_00025	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
					MV-861149_00041	400 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
							Cyclohexanone	1600 ug/mL
					MV-861149_00042	400 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
							Cyclohexanone	1600 ug/mL
.MV- Acrolein_00008	12/20/11	06/20/11	P&T Methanol, Lot DD946	5 mL	MV-48501_00004	0.205 g	Acrolein	40016 ug/mL
..MV-48501_00004	02/29/12		Supelco, Lot LB82935V		(Purchased Reagent)		Acrolein	0.976 mL/mL
.MV-5M06036_00025	01/31/12		Supelco, Lot LB79742		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.MV-861149_00041	09/30/12		Supelco, Lot LB75124		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone	2000 ug/mL
							Acetone	2000 ug/mL
							Cyclohexanone	20000 ug/mL
.MV-861149_00042	09/30/12		Supelco, Lot LB75124		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone	2000 ug/mL
							Acetone	2000 ug/mL
							Cyclohexanone	20000 ug/mL
MV-Main GasKe_00023	12/20/11	11/16/11	P&T Methanol, Lot de997	10 mL	MV- Acrolein_00008	100 uL	Acrolein	400.16 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MV-5M06036_00026	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
					MV-861149_00043	400 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
							Cyclohexanone	1600 ug/mL
					MV-861149_00044	400 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
							Cyclohexanone	1600 ug/mL
.MV- Acrolein_00008	12/20/11	06/20/11	P&T Methanol, Lot DD946	5 mL	MV-48501_00004	0.205 g	Acrolein	40016 ug/mL
..MV-48501_00004	02/29/12		Supelco, Lot LB82935V		(Purchased Reagent)		Acrolein	0.976 mL/mL
.MV-5M06036_00026	01/31/12		Supelco, Lot LB79742		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.MV-861149_00043	09/30/12		Supelco, Lot LB75124		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone	2000 ug/mL
							Acetone	2000 ug/mL
							Cyclohexanone	20000 ug/mL
.MV-861149_00044	11/30/13		Supelco, Lot LB85301		(Purchased Reagent)		2-Butanone (MEK)	2000 ug/mL
							2-Hexanone	2000 ug/mL
							4-Methyl-2-pentanone	2000 ug/mL
							Acetone	2000 ug/mL
							Cyclohexanone	20000 ug/mL
MV-Main_00019	11/30/11	09/15/11	P&T Methanol, Lot dd946	10 mL	MV-1-Ch Hex_00007	11 uL	1-Chlorohexane	41.0549 ug/mL
					MV-502111_00020	200 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Xylenes, Total	120 ug/mL
					MV-506052_00019	200 uL	Iodomethane	40 ug/mL
					MV-861145_00017	200 uL	2-Chloro-1,3-butadiene	40 ug/mL
					MV-CUS11338_00021	500 uL	1,4-Dioxane	2000 ug/mL
							2-Methyl-2-propanol	800 ug/mL
							Acetonitrile	400 ug/mL
							Acrylonitrile	400 ug/mL
							Ethanol	2000 ug/mL
							Isobutyl alcohol	800 ug/mL
							Isopropyl ether	200 ug/mL
							Methacrylonitrile	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butanol	1200 ug/mL
							Propionitrile	400 ug/mL
					MV-CUS11338_00022	500 uL	1,4-Dioxane	2000 ug/mL
							2-Methyl-2-propanol	800 ug/mL
							Acetonitrile	400 ug/mL
							Acrylonitrile	400 ug/mL
							Ethanol	2000 ug/mL
							Isobutyl alcohol	800 ug/mL
							Isopropyl ether	200 ug/mL
							Methacrylonitrile	400 ug/mL
							n-Butanol	1200 ug/mL
							Propionitrile	400 ug/mL
.MV-1-Ch Hex_00007	01/28/12	07/27/11	P&T Methanol, Lot dd946	5 mL	MV-442258_00002	0.1868 g	1-Chlorohexane	37322.6 ug/mL
..MV-442258_00002	07/31/13		Supelco, Lot LB77927		(Purchased Reagent)		1-Chlorohexane	0.999 mL/mL
.MV-502111_00020	08/30/12		Supelco, Lot LB77670		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
.MV-506052_00019	03/31/12		Supelco, Lot LB82956		(Purchased Reagent)		Iodomethane	2000 ug/mL
.MV-861145_00017	03/31/12		Supelco, Lot LB82389		(Purchased Reagent)		2-Chloro-1,3-butadiene	2000 ug/mL
.MV-CUS11338_00021	11/30/11		Ultra, Lot CF-4325		(Purchased Reagent)		1,4-Dioxane	20000 ug/mL
							2-Methyl-2-propanol	8000 ug/mL
							Acetonitrile	4000 ug/mL
							Acrylonitrile	4000 ug/mL
							Ethanol	20000 ug/mL
							Isobutyl alcohol	8000 ug/mL
							Isopropyl ether	2000 ug/mL
							Methacrylonitrile	4000 ug/mL
							n-Butanol	12000 ug/mL
							Propionitrile	4000 ug/mL
.MV-CUS11338_00022	11/30/11		Ultra, Lot CF-4325		(Purchased Reagent)		1,4-Dioxane	20000 ug/mL
							2-Methyl-2-propanol	8000 ug/mL
							Acetonitrile	4000 ug/mL
							Acrylonitrile	4000 ug/mL
							Ethanol	20000 ug/mL
							Isobutyl alcohol	8000 ug/mL
							Isopropyl ether	2000 ug/mL
							Methacrylonitrile	4000 ug/mL
							n-Butanol	12000 ug/mL
							Propionitrile	4000 ug/mL
MV-Main_00021	01/28/12	11/15/11	P&T Methanol, Lot de997	10 mL	MV-1-Ch Hex_00007	11 uL	1-Chlorohexane	41.0549 ug/mL
					MV-502111_00021	200 uL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2,4-Trimethylbenzene	40 ug/mL
							1,2-Dibromo-3-Chloropropane	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloroethene, Total	80 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3,5-Trimethylbenzene	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							2-Chlorotoluene	40 ug/mL
							4-Chlorotoluene	40 ug/mL
							4-Isopropyltoluene	40 ug/mL
							Benzene	40 ug/mL
							Bromobenzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Isopropylbenzene	40 ug/mL
							m-Xylene & p-Xylene	80 ug/mL
							Methylene Chloride	40 ug/mL
							n-Butylbenzene	40 ug/mL
							n-Propylbenzene	40 ug/mL
							Naphthalene	40 ug/mL
							o-Xylene	40 ug/mL
							sec-Butylbenzene	40 ug/mL
							Styrene	40 ug/mL
							tert-Butylbenzene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
							Xylenes, Total	120 ug/mL
					MV-506052_00022	200 uL	Iodomethane	40 ug/mL
					MV-861145_00018	200 uL	2-Chloro-1,3-butadiene	40 ug/mL
					MV-861338_00029	500 uL	1,4-Dioxane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	800 ug/mL
							Acetonitrile	400 ug/mL
							Acrylonitrile	400 ug/mL
							Ethanol	2000 ug/mL
							Isobutyl alcohol	800 ug/mL
							Isopropyl ether	200 ug/mL
							Methacrylonitrile	400 ug/mL
							n-Butanol	1200 ug/mL
							Propionitrile	400 ug/mL
					MV-CUS11338_00030	500 uL	1,4-Dioxane	2000 ug/mL
							2-Methyl-2-propanol	800 ug/mL
							Acetonitrile	400 ug/mL
							Acrylonitrile	400 ug/mL
							Ethanol	2000 ug/mL
							Isobutyl alcohol	800 ug/mL
							Isopropyl ether	200 ug/mL
							Methacrylonitrile	400 ug/mL
							n-Butanol	1200 ug/mL
							Propionitrile	400 ug/mL
.MV-1-Ch Hex_00007	01/28/12	07/27/11	P&T Methanol, Lot dd946	5 mL	MV-442258_00002	0.1868 g	1-Chlorohexane	37322.6 ug/mL
..MV-442258_00002	07/31/13		Supelco, Lot LB77927		(Purchased Reagent)		1-Chlorohexane	0.999 mL/mL
.MV-502111_00021	08/30/12		Supelco, Lot LB77670		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane (EDB)	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloroethene, Total	4000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added	Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromochloromethane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	4000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	6000 ug/mL
.MV-506052_00022	03/31/12		Supelco, Lot LB82956		(Purchased Reagent)		Iodomethane	2000 ug/mL
.MV-861145_00018	03/31/12		Supelco, Lot LB82389		(Purchased Reagent)		2-Chloro-1,3-butadiene	2000 ug/mL
.MV-CUS11338_00029	11/30/13		Ultra, Lot CH-3475		(Purchased Reagent)		1,4-Dioxane	20000 ug/mL
							2-Methyl-2-propanol	8000 ug/mL
							Acetonitrile	4000 ug/mL
							Acrylonitrile	4000 ug/mL
							Ethanol	20000 ug/mL
							Isobutyl alcohol	8000 ug/mL
							Isopropyl ether	2000 ug/mL
							Methacrylonitrile	4000 ug/mL
							n-Butanol	12000 ug/mL
							Propionitrile	4000 ug/mL
.MV-CUS11338_00030	11/30/13		Ultra, Lot CH-3475		(Purchased Reagent)		1,4-Dioxane	20000 ug/mL
							2-Methyl-2-propanol	8000 ug/mL
							Acetonitrile	4000 ug/mL
							Acrylonitrile	4000 ug/mL
							Ethanol	20000 ug/mL
							Isobutyl alcohol	8000 ug/mL
							Isopropyl ether	2000 ug/mL
							Methacrylonitrile	4000 ug/mL
							n-Butanol	12000 ug/mL
							Propionitrile	4000 ug/mL
MV-SS GasKe_00015	03/30/12	09/30/11	P&T Methanol, Lot De407	10 mL	MV-30006_00027	320 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
					MV-5s06036_00008	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MV-30006_00027	04/30/14		Restek, Lot A076449		(Purchased Reagent)		2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone	5000 ug/mL
							Acetone	5000 ug/mL
.MV-5s06036_00008	09/13/13		Supelco, Lot LB79214		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MV-SS GasKe_00016	05/15/12	11/16/11	P&T Methanol, Lot De997	10 mL	MV-30006_00030	320 uL	2-Butanone (MEK)	160 ug/mL
							2-Hexanone	160 ug/mL
							4-Methyl-2-pentanone	160 ug/mL
							Acetone	160 ug/mL
					MV-5s06036_00009	200 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MV-30006_00030	04/30/14		Restek, Lot A079446		(Purchased Reagent)		2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone	5000 ug/mL
							Acetone	5000 ug/mL
.MV-5s06036_00009	09/13/13		Supelco, Lot LB79584		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MV-SS Supp_00008	12/03/11	06/03/11	P&T Methanol, Lot dd471	5 mL	MV-564150_00009	100 uL	Methyl tert-butyl ether	40 ug/mL
.MV-564150_00009	05/30/12		RESTEK, Lot A081643		(Purchased Reagent)		Methyl tert-butyl ether	2000 ug/mL
MV-Supp Std_00017	12/30/11	09/26/11	P&T Methanol, Lot De407	10 mL	MV-21304788_00011	200 uL	1,1,1-Trifluoro-2,2-dichloroethane	40 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	40 ug/mL
							1,2,3-Trimethylbenzene	40 ug/mL
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	40 ug/mL
							2-Nitropropane	40 ug/mL
							2-Pentanone	160 ug/mL
							3-Chloro-1-propene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	40 ug/mL
							cis-1,4-Dichloro-2-butene	40 ug/mL
							Cyclohexane	40 ug/mL
							Dichlorofluoromethane	40 ug/mL
							Ethyl acetate	80 ug/mL
							Ethyl ether	40 ug/mL
							Ethyl methacrylate	80 ug/mL
							Hexane	40 ug/mL
							Isopropyl alcohol	800 ug/mL
							Methyl acetate	200 ug/mL
							Methyl methacrylate	80 ug/mL
							Methyl tert-butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
							Tert-amyl methyl ether	200 ug/mL
							Tert-butyl ethyl ether	200 ug/mL
							Tetrahydrofuran	80 ug/mL
							Tetrahydrothiophene	40 ug/mL
							trans-1,4-Dichloro-2-butene	40 ug/mL
							Vinyl acetate	80 ug/mL
					MV-21322197_00011	1 mL	Propene oxide	2000 ug/mL
					MV-21322197_00012	1 mL	Propene oxide	2000 ug/mL
					MV-48838_00016	1 mL	Ethylene oxide	5000 ug/mL
					MV-S-635-1S_00015	200 uL	1,2-Dichloro-1,1,2-trifluoroethane	40 ug/mL
.MV-21304788_00011	05/31/12		Supelco, Lot LB85100		(Purchased Reagent)		1,1,1-Trifluoro-2,2-dichloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,2,3-Trimethylbenzene	2000 ug/mL
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							2-Nitropropane	2000 ug/mL
							2-Pentanone	8000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							cis-1,4-Dichloro-2-butene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	4000 ug/mL
							Hexane	2000 ug/mL
							Isopropyl alcohol	40000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl methacrylate	4000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Tert-amyl methyl ether	10000 ug/mL
							Tert-butyl ethyl ether	10000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Tetrahydrothiophene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Vinyl acetate	4000 ug/mL
.MV-21322197_00011	03/31/12	Supelco, Lot LB83765			(Purchased Reagent)		Propene oxide	10000 ug/mL
.MV-21322197_00012	03/31/12	Supelco, Lot LB83765			(Purchased Reagent)		Propene oxide	10000 ug/mL
.MV-48838_00016	01/31/12	Supelco, Lot LB81673			(Purchased Reagent)		Ethylene oxide	50000 ug/mL
.MV-S-635-1S_00015	01/31/21	Accustandard, Lot 211011226			(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
MV-Supp Std_00018	01/31/12	09/26/11	P&T Methanol, Lot de997	10 mL	MV-21455932_00001	200 uL	1,1,1-Trifluoro-2,2-dichloroethane	40 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	40 ug/mL
							1,2,3-Trimethylbenzene	40 ug/mL
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	40 ug/mL
							2-Nitropropane	40 ug/mL
							2-Pentanone	160 ug/mL
							3-Chloro-1-propene	40 ug/mL
							Carbon disulfide	40 ug/mL
							cis-1,4-Dichloro-2-butene	40 ug/mL
							Cyclohexane	40 ug/mL
							Dichlorofluoromethane	40 ug/mL
							Ethyl acetate	80 ug/mL
							Ethyl ether	40 ug/mL
							Ethyl methacrylate	80 ug/mL
							Hexane	40 ug/mL
							Isopropyl alcohol	800 ug/mL
							Methyl acetate	200 ug/mL
							Methyl methacrylate	80 ug/mL
							Methyl tert-butyl ether	40 ug/mL
							Methylcyclohexane	40 ug/mL
							Tert-amyl methyl ether	200 ug/mL
							Tert-butyl ethyl ether	200 ug/mL
							Tetrahydrofuran	80 ug/mL
							Tetrahydrothiophene	40 ug/mL
							trans-1,4-Dichloro-2-butene	40 ug/mL
							Vinyl acetate	80 ug/mL
					MV-48838_00017	1 mL	Ethylene oxide	5000 ug/mL
					MV-S-635-1S_00016	200 uL	1,2-Dichloro-1,1,2-trifluoroethane	40 ug/mL
.MV-21455932_00001	10/31/12	Supelco, Lot LB88346			(Purchased Reagent)		1,1,1-Trifluoro-2,2-dichloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,2,3-Trimethylbenzene	2000 ug/mL
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	2000 ug/mL
							2-Nitropropane	2000 ug/mL
							2-Pentanone	8000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							cis-1,4-Dichloro-2-butene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	4000 ug/mL
							Hexane	2000 ug/mL
							Isopropyl alcohol	40000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl methacrylate	4000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Tert-amyl methyl ether	10000 ug/mL
							Tert-butyl ethyl ether	10000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Tetrahydrothiophene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Vinyl acetate	4000 ug/mL
.MV-48838_00017	01/31/12	Supelco, Lot LB81673			(Purchased Reagent)		Ethylene oxide	50000 ug/mL
.MV-S-635-1S_00016	01/31/21	Accustandard, Lot 211011226			(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Instrument ID: MSV_E Analysis Batch Number: 94522

Lab Sample ID: IC 280-94522/3 Client Sample ID:

Date Analyzed: 11/01/11 19:11 Lab File ID: E3676.D GC Column: DB-624 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Naphthalene	15.14	Split peak	tinkhams	11/02/11 18:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Instrument ID: MSV_MS1 Analysis Batch Number: 94480

Lab Sample ID: IC 280-94480/2 Client Sample ID:

Date Analyzed: 11/01/11 17:19 Lab File ID: ms1776.D GC Column: DB-624 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromodichloromethane	8.94	Baseline Event	seifertj	11/01/11 21:24
1,1,2-Trichloroethane	9.78	Baseline Event	seifertj	11/01/11 21:24
1,3,5-Trimethylbenzene	11.78	Baseline Event	seifertj	11/01/11 21:27

Lab Sample ID: IC 280-94480/3 Client Sample ID:

Date Analyzed: 11/01/11 17:39 Lab File ID: ms1777.D GC Column: DB-624 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromoform	11.27	Baseline Event	seifertj	11/01/11 22:23

Lab Sample ID: IC 280-94480/4 Client Sample ID:

Date Analyzed: 11/01/11 17:59 Lab File ID: ms1778.D GC Column: DB-624 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	5.70	Analyte not Identified by the Data System	seifertj	11/01/11 21:23

Lab Sample ID: IC 280-94480/8 Client Sample ID:

Date Analyzed: 11/01/11 19:19 Lab File ID: ms1782.D GC Column: DB-624 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.83	Analyte not Identified by the Data System	seifertj	11/01/11 21:13

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-14-111611	280-23016-1	90	92	111	107
MW-7-111611	280-23016-2	97	93	103	103
MW-3-111711	280-23016-3	94	91	111	105
MW-15-111711	280-23016-4	92	88	107	102
MW-5-111711	280-23016-5	87	84	99	95
TRIP BLANK	280-23016-6	96	90	103	98
	MB 280-97860/5	95	94	99	92
	MB 280-98185/5	89	87	107	102
	MB 280-98252/5	94	92	107	102
	LCS 280-97860/4	95	91	94	96
	LCS 280-98185/4	88	87	106	106
	LCS 280-98252/4	99	94	115	108
	LCSD 280-98252/6	89	85	104	99
	280-22946-B-1 MS	91	86	96	94
	280-22998-C-2 MS	88	81	106	103
	280-23072-A-4 MS	93	90	106	105
	280-22946-B-1 MSD	94	89	100	97
	280-22998-C-2 MSD	91	85	108	105
	280-23072-A-4 MSD	94	89	107	103

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms2836.D

Lab ID: LCS 280-97860/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	18.8	94	48-130	
Benzene	5.00	5.57	111	77-120	
Bromobenzene	5.00	4.56	91	75-120	
Bromodichloromethane	5.00	4.99	100	78-120	
Bromoform	5.00	3.94	79	74-121	
Bromomethane	5.00	4.35	87	42-154	
2-Butanone (MEK)	20.0	22.8	114	57-120	
Carbon tetrachloride	5.00	5.05	101	80-120	
Chlorobenzene	5.00	5.05	101	78-120	
Bromochloromethane	5.00	4.44	89	78-120	
Dibromochloromethane	5.00	4.27	85	76-120	
Chloroethane	5.00	5.29	106	51-133	
Chloroform	5.00	5.17	103	78-120	
Chloromethane	5.00	4.31	86	46-142	
2-Chlorotoluene	5.00	5.13	103	76-120	
4-Chlorotoluene	5.00	5.09	102	78-120	
cis-1,2-Dichloroethene	5.00	5.07	101	75-120	
cis-1,3-Dichloropropene	5.00	4.80	96	76-120	
1,2-Dibromo-3-Chloropropane	5.00	3.70 J	74	65-120	
1,2-Dibromoethane (EDB)	5.00	4.31	86	77-120	
Dibromomethane	5.00	4.63	93	77-120	
1,2-Dichlorobenzene	5.00	4.74	95	76-120	
1,3-Dichlorobenzene	5.00	5.00	100	75-120	
1,4-Dichlorobenzene	5.00	4.99	100	77-120	
Dichlorodifluoromethane	5.00	5.02	100	56-140	
1,1-Dichloroethane	5.00	5.53	111	77-120	
1,2-Dichloroethane	5.00	4.57	91	74-120	
1,1-Dichloroethene	5.00	5.61	112	68-133	
1,2-Dichloroethene, Total	10.0	10.6	106	78-120	
1,2-Dichloropropane	5.00	5.31	106	76-120	
1,3-Dichloropropane	5.00	4.59	92	75-120	
2,2-Dichloropropane	5.00	5.60	112	72-128	
1,1-Dichloropropene	5.00	5.18	104	75-120	
Ethylbenzene	5.00	5.13	103	78-120	
Hexachlorobutadiene	5.00	5.30	106	73-123	
2-Hexanone	20.0	18.8	94	57-121	
Isopropylbenzene	5.00	5.73	115	71-120	
4-Isopropyltoluene	5.00	5.35	107	76-120	
Methylene Chloride	5.00	5.52	110	60-134	
4-Methyl-2-pentanone	20.0	18.4	92	65-120	
Methyl tert-butyl ether	5.00	3.89 J	78	58-120	
m-Xylene & p-Xylene	10.0	10.7	107	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms2836.D

Lab ID: LCS 280-97860/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	5.00	3.61	72	62-121	
n-Butylbenzene	5.00	5.45	109	76-120	
n-Propylbenzene	5.00	5.06	101	76-120	
o-Xylene	5.00	4.93	99	77-120	
sec-Butylbenzene	5.00	5.02	100	80-120	
Styrene	5.00	4.75	95	77-120	
tert-Butylbenzene	5.00	5.18	104	76-120	
1,1,1,2-Tetrachloroethane	5.00	4.52	90	77-120	
1,1,2,2-Tetrachloroethane	5.00	4.69	94	73-120	
Tetrachloroethene	5.00	4.94	99	77-120	
Toluene	5.00	5.57	111	73-120	
trans-1,2-Dichloroethene	5.00	5.56	111	80-120	
trans-1,3-Dichloropropene	5.00	4.97	99	72-120	
1,2,3-Trichlorobenzene	5.00	4.17	83	66-123	
1,2,4-Trichlorobenzene	5.00	4.45	89	73-121	
1,1,1-Trichloroethane	5.00	5.10	102	78-120	
1,1,2-Trichloroethane	5.00	4.77	95	76-120	
Trichloroethene	5.00	5.07	101	78-122	
Trichlorofluoromethane	5.00	5.08	102	63-135	
1,2,3-Trichloropropane	5.00	4.36	87	72-120	
1,2,4-Trimethylbenzene	5.00	5.29	106	77-120	
1,3,5-Trimethylbenzene	5.00	5.31	106	77-120	
Vinyl chloride	5.00	4.54	91	49-136	
Xylenes, Total	15.0	15.6	104	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4805.D

Lab ID: LCS 280-98185/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	16.6	83	48-130	
Benzene	5.00	4.61	92	77-120	
Bromobenzene	5.00	5.28	106	75-120	
Bromodichloromethane	5.00	4.39	88	78-120	
Bromoform	5.00	4.45	89	74-121	
Bromomethane	5.00	4.42	88	42-154	
2-Butanone (MEK)	20.0	18.8	94	57-120	
Carbon tetrachloride	5.00	4.80	96	80-120	
Chlorobenzene	5.00	5.34	107	78-120	
Bromochloromethane	5.00	4.04	81	78-120	
Dibromochloromethane	5.00	4.62	92	76-120	
Chloroethane	5.00	4.70	94	51-133	
Chloroform	5.00	4.60	92	78-120	
Chloromethane	5.00	4.68	94	46-142	
2-Chlorotoluene	5.00	5.61	112	76-120	
4-Chlorotoluene	5.00	5.53	111	78-120	
cis-1,2-Dichloroethene	5.00	4.45	89	75-120	
cis-1,3-Dichloropropene	5.00	4.19	84	76-120	
1,2-Dibromo-3-Chloropropane	5.00	4.61 J	92	65-120	
1,2-Dibromoethane (EDB)	5.00	4.73	95	77-120	
Dibromomethane	5.00	4.07	81	77-120	
1,2-Dichlorobenzene	5.00	5.27	105	76-120	
1,3-Dichlorobenzene	5.00	5.45	109	75-120	
1,4-Dichlorobenzene	5.00	5.43	109	77-120	
Dichlorodifluoromethane	5.00	4.08	82	56-140	
1,1-Dichloroethane	5.00	4.93	99	77-120	
1,2-Dichloroethane	5.00	4.29	86	74-120	
1,1-Dichloroethene	5.00	5.12	102	68-133	
1,2-Dichloropropane	5.00	4.42	88	76-120	
1,3-Dichloropropane	5.00	5.05	101	75-120	
2,2-Dichloropropane	5.00	4.92	98	72-128	
1,1-Dichloropropene	5.00	4.66	93	75-120	
Ethylbenzene	5.00	5.37	107	78-120	
Hexachlorobutadiene	5.00	5.40	108	73-123	
2-Hexanone	20.0	18.3	92	57-121	
Isopropylbenzene	5.00	6.40	128	71-120	*
4-Isopropyltoluene	5.00	5.62	112	76-120	
Methylene Chloride	5.00	4.98	100	60-134	
4-Methyl-2-pentanone	20.0	15.3	76	65-120	
Methyl tert-butyl ether	5.00	4.10 J	82	58-120	
m-Xylene & p-Xylene	10.0	10.8	108	78-120	
Naphthalene	5.00	4.69	94	62-121	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4805.D

Lab ID: LCS 280-98185/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
n-Butylbenzene	5.00	5.73	115	76-120	
n-Propylbenzene	5.00	5.59	112	76-120	
o-Xylene	5.00	5.17	103	77-120	
sec-Butylbenzene	5.00	5.65	113	80-120	
Styrene	5.00	5.06	101	77-120	
tert-Butylbenzene	5.00	5.70	114	76-120	
1,1,1,2-Tetrachloroethane	5.00	5.07	101	77-120	
1,1,2,2-Tetrachloroethane	5.00	5.33	107	73-120	
Tetrachloroethene	5.00	5.34	107	77-120	
Toluene	5.00	4.46	89	73-120	
trans-1,2-Dichloroethene	5.00	4.66	93	80-120	
trans-1,3-Dichloropropene	5.00	4.01	80	72-120	
1,2,3-Trichlorobenzene	5.00	4.65	93	66-123	
1,2,4-Trichlorobenzene	5.00	4.83	97	73-121	
1,1,1-Trichloroethane	5.00	4.64	93	78-120	
1,1,2-Trichloroethane	5.00	4.16	83	76-120	
Trichloroethene	5.00	4.74	95	78-122	
Trichlorofluoromethane	5.00	4.60	92	63-135	
1,2,3-Trichloropropane	5.00	5.59	112	72-120	
1,2,4-Trimethylbenzene	5.00	5.56	111	77-120	
1,3,5-Trimethylbenzene	5.00	5.72	114	77-120	
Vinyl chloride	5.00	4.75	95	49-136	
Xylenes, Total	15.0	16.0	106	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4868.D

Lab ID: LCS 280-98252/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	18.4	92	48-130	
Benzene	5.00	4.44	89	77-120	
Bromobenzene	5.00	5.24	105	75-120	
Bromodichloromethane	5.00	4.22	84	78-120	
Bromoform	5.00	4.03	81	74-121	
Bromomethane	5.00	4.61	92	42-154	
2-Butanone (MEK)	20.0	19.2	96	57-120	
Carbon tetrachloride	5.00	4.36	87	80-120	
Chlorobenzene	5.00	5.24	105	78-120	
Bromochloromethane	5.00	4.46	89	78-120	
Dibromochloromethane	5.00	4.53	91	76-120	
Chloroethane	5.00	4.70	94	51-133	
Chloroform	5.00	4.53	91	78-120	
Chloromethane	5.00	4.56	91	46-142	
2-Chlorotoluene	5.00	5.25	105	76-120	
4-Chlorotoluene	5.00	5.31	106	78-120	
cis-1,2-Dichloroethene	5.00	4.27	85	75-120	
cis-1,3-Dichloropropene	5.00	4.19	84	76-120	
1,2-Dibromo-3-Chloropropane	5.00	3.64 J	73	65-120	
1,2-Dibromoethane (EDB)	5.00	4.75	95	77-120	
Dibromomethane	5.00	4.23	85	77-120	
1,2-Dichlorobenzene	5.00	5.28	106	76-120	
1,3-Dichlorobenzene	5.00	5.37	107	75-120	
1,4-Dichlorobenzene	5.00	5.42	108	77-120	
Dichlorodifluoromethane	5.00	4.07	81	56-140	
1,1-Dichloroethane	5.00	4.47	89	77-120	
1,2-Dichloroethane	5.00	4.32	86	74-120	
1,1-Dichloroethene	5.00	4.83	97	68-133	
1,2-Dichloropropane	5.00	4.24	85	76-120	
1,3-Dichloropropane	5.00	5.11	102	75-120	
2,2-Dichloropropane	5.00	4.39	88	72-128	
1,1-Dichloropropene	5.00	4.24	85	75-120	
Ethylbenzene	5.00	4.87	97	78-120	
Hexachlorobutadiene	5.00	5.15	103	73-123	
2-Hexanone	20.0	18.3	91	57-121	
Isopropylbenzene	5.00	5.69	114	71-120	
4-Isopropyltoluene	5.00	5.11	102	76-120	
Methylene Chloride	5.00	5.16	103	60-134	
4-Methyl-2-pentanone	20.0	15.1	75	65-120	
Methyl tert-butyl ether	5.00	3.94 J	79	58-120	
m-Xylene & p-Xylene	10.0	9.93	99	78-120	
Naphthalene	5.00	4.57	91	62-121	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4868.D

Lab ID: LCS 280-98252/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
n-Butylbenzene	5.00	5.16	103	76-120	
n-Propylbenzene	5.00	5.09	102	76-120	
o-Xylene	5.00	4.94	99	77-120	
sec-Butylbenzene	5.00	5.08	102	80-120	
Styrene	5.00	4.80	96	77-120	
tert-Butylbenzene	5.00	5.17	103	76-120	
1,1,1,2-Tetrachloroethane	5.00	4.96	99	77-120	
1,1,2,2-Tetrachloroethane	5.00	5.22	104	73-120	
Tetrachloroethene	5.00	5.09	102	77-120	
Toluene	5.00	4.29	86	73-120	
trans-1,2-Dichloroethene	5.00	4.53	91	80-120	
trans-1,3-Dichloropropene	5.00	3.86	77	72-120	
1,2,3-Trichlorobenzene	5.00	4.86	97	66-123	
1,2,4-Trichlorobenzene	5.00	4.89	98	73-121	
1,1,1-Trichloroethane	5.00	4.34	87	78-120	
1,1,2-Trichloroethane	5.00	4.22	84	76-120	
Trichloroethene	5.00	4.48	90	78-122	
Trichlorofluoromethane	5.00	4.61	92	63-135	
1,2,3-Trichloropropane	5.00	5.46	109	72-120	
1,2,4-Trimethylbenzene	5.00	5.15	103	77-120	
1,3,5-Trimethylbenzene	5.00	5.11	102	77-120	
Vinyl chloride	5.00	4.46	89	49-136	
Xylenes, Total	15.0	14.9	99	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4870.D

Lab ID: LCSD 280-98252/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	15.7	79	16	41	48-130	
Benzene	5.00	4.71	94	6	20	77-120	
Bromobenzene	5.00	5.16	103	1	20	75-120	
Bromodichloromethane	5.00	4.36	87	3	20	78-120	
Bromoform	5.00	4.04	81	0	21	74-121	
Bromomethane	5.00	4.33	87	6	24	42-154	
2-Butanone (MEK)	20.0	17.3	87	10	32	57-120	
Carbon tetrachloride	5.00	4.95	99	13	21	80-120	
Chlorobenzene	5.00	5.52	110	5	20	78-120	
Bromochloromethane	5.00	4.29	86	4	20	78-120	
Dibromochloromethane	5.00	4.41	88	3	20	76-120	
Chloroethane	5.00	4.58	92	3	25	51-133	
Chloroform	5.00	4.77	95	5	20	78-120	
Chloromethane	5.00	4.18	84	9	24	46-142	
2-Chlorotoluene	5.00	5.68	114	8	20	76-120	
4-Chlorotoluene	5.00	5.60	112	5	20	78-120	
cis-1,2-Dichloroethene	5.00	4.65	93	8	20	75-120	
cis-1,3-Dichloropropene	5.00	4.11	82	2	20	76-120	
1,2-Dibromo-3-Chloropropane	5.00	3.83 J	77	5	22	65-120	
1,2-Dibromoethane (EDB)	5.00	4.57	91	4	20	77-120	
Dibromomethane	5.00	4.06	81	4	20	77-120	
1,2-Dichlorobenzene	5.00	5.24	105	1	20	76-120	
1,3-Dichlorobenzene	5.00	5.49	110	2	20	75-120	
1,4-Dichlorobenzene	5.00	5.50	110	2	23	77-120	
Dichlorodifluoromethane	5.00	4.07	81	0	24	56-140	
1,1-Dichloroethane	5.00	4.92	98	10	21	77-120	
1,2-Dichloroethane	5.00	4.23	85	2	20	74-120	
1,1-Dichloroethene	5.00	5.61	112	15	20	68-133	
1,2-Dichloropropane	5.00	4.29	86	1	20	76-120	
1,3-Dichloropropane	5.00	4.93	99	4	20	75-120	
2,2-Dichloropropane	5.00	5.03	101	14	24	72-128	
1,1-Dichloropropene	5.00	4.82	96	13	21	75-120	
Ethylbenzene	5.00	5.39	108	10	26	78-120	
Hexachlorobutadiene	5.00	5.59	112	8	25	73-123	
2-Hexanone	20.0	16.7	83	9	25	57-121	
Isopropylbenzene	5.00	6.34	127	11	20	71-120	*
4-Isopropyltoluene	5.00	5.63	113	10	20	76-120	
Methylene Chloride	5.00	5.06	101	2	20	60-134	
4-Methyl-2-pentanone	20.0	14.5	73	4	22	65-120	
Methyl tert-butyl ether	5.00	4.02 J	80	2	21	58-120	
m-Xylene & p-Xylene	10.0	10.7	107	8	20	78-120	
Naphthalene	5.00	4.16	83	10	32	62-121	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4870.D

Lab ID: LCSD 280-98252/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
n-Butylbenzene	5.00	5.66	113	9	21	76-120	
n-Propylbenzene	5.00	5.56	111	9	20	76-120	
o-Xylene	5.00	5.20	104	5	20	77-120	
sec-Butylbenzene	5.00	5.68	114	11	21	80-120	
Styrene	5.00	5.02	100	4	20	77-120	
tert-Butylbenzene	5.00	5.60	112	8	21	76-120	
1,1,1,2-Tetrachloroethane	5.00	5.05	101	2	20	77-120	
1,1,2,2-Tetrachloroethane	5.00	5.09	102	2	20	73-120	
Tetrachloroethene	5.00	5.60	112	10	20	77-120	
Toluene	5.00	4.61	92	7	20	73-120	
trans-1,2-Dichloroethene	5.00	4.93	99	8	24	80-120	
trans-1,3-Dichloropropene	5.00	3.91	78	1	20	72-120	
1,2,3-Trichlorobenzene	5.00	4.66	93	4	29	66-123	
1,2,4-Trichlorobenzene	5.00	4.86	97	1	25	73-121	
1,1,1-Trichloroethane	5.00	4.89	98	12	20	78-120	
1,1,2-Trichloroethane	5.00	4.03	81	5	21	76-120	
Trichloroethene	5.00	4.82	96	7	20	78-122	
Trichlorofluoromethane	5.00	4.64	93	1	20	63-135	
1,2,3-Trichloropropane	5.00	5.49	110	1	23	72-120	
1,2,4-Trimethylbenzene	5.00	5.54	111	7	20	77-120	
1,3,5-Trimethylbenzene	5.00	5.66	113	10	20	77-120	
Vinyl chloride	5.00	4.45	89	0	24	49-136	
Xylenes, Total	15.0	15.9	106	7	20	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms2844.D

Lab ID: 280-22946-B-1 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	20.0	1.9 U	17.9	89	48-130	
Benzene	5.00	0.16 U	5.39	108	77-120	
Bromobenzene	5.00	0.17 U	4.31	86	75-120	
Bromodichloromethane	5.00	0.17 U	4.76	95	78-120	
Bromoform	5.00	0.19 U	3.80	76	74-121	
Bromomethane	5.00	0.21 U	4.45	89	42-154	
2-Butanone (MEK)	20.0	2.0 U	22.2	111	57-120	
Carbon tetrachloride	5.00	0.19 U	5.21	104	80-120	
Chlorobenzene	5.00	0.17 U	4.90	98	78-120	
Bromochloromethane	5.00	0.10 U	4.14	83	78-120	
Dibromochloromethane	5.00	0.17 U	4.12	82	76-120	
Chloroethane	5.00	0.41 U	5.14	103	51-133	
Chloroform	5.00	0.16 U	4.99	100	78-120	
Chloromethane	5.00	0.30 U	4.59	92	46-142	
2-Chlorotoluene	5.00	0.17 U	4.81	96	76-120	
4-Chlorotoluene	5.00	0.21 U	4.80	96	78-120	
cis-1,2-Dichloroethene	5.00	0.15 U	4.83	97	75-120	
cis-1,3-Dichloropropene	5.00	0.16 U	4.51	90	76-120	
1,2-Dibromo-3-Chloropropane	5.00	0.47 U	3.50 J	70	65-120	
1,2-Dibromoethane (EDB)	5.00	0.18 U	4.15	83	77-120	
Dibromomethane	5.00	0.17 U	4.36	87	77-120	
1,2-Dichlorobenzene	5.00	0.15 U	4.44	89	76-120	
1,3-Dichlorobenzene	5.00	0.13 U	4.63	93	75-120	
1,4-Dichlorobenzene	5.00	0.16 U	4.97	99	77-120	
Dichlorodifluoromethane	5.00	0.31 U	5.21	104	56-140	
1,1-Dichloroethane	5.00	0.22 U	5.30	106	77-120	
1,2-Dichloroethane	5.00	0.13 U	4.36	87	74-120	
1,1-Dichloroethene	5.00	0.23 U	5.65	113	68-133	
1,2-Dichloroethene, Total	10.0	0.24 U	10.3	103	78-120	
1,2-Dichloropropane	5.00	0.18 U	5.00	100	76-120	
1,3-Dichloropropane	5.00	0.22 U	4.45	89	75-120	
2,2-Dichloropropane	5.00	0.18 U	5.54	111	72-128	
1,1-Dichloropropene	5.00	0.19 U	5.20	104	75-120	
Ethylbenzene	5.00	0.16 U	5.03	101	78-120	
Hexachlorobutadiene	5.00	0.12 U	5.10	102	73-123	
2-Hexanone	20.0	1.7 U	17.7	89	57-121	
Isopropylbenzene	5.00	0.19 U	5.73	115	71-120	
4-Isopropyltoluene	5.00	0.20 U	5.30	106	76-120	
Methylene Chloride	5.00	0.32 U	4.99	100	60-134	
4-Methyl-2-pentanone	20.0	0.98 U	19.2	96	65-120	
Methyl tert-butyl ether	5.00	0.46 J	4.22 J	75	58-120	
m-Xylene & p-Xylene	10.0	0.34 U	10.7	107	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms2844.D

Lab ID: 280-22946-B-1 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Naphthalene	5.00	0.22 U	3.29	66	62-121	
n-Butylbenzene	5.00	0.14 U	5.40	108	76-120	
n-Propylbenzene	5.00	0.16 U	4.98	100	76-120	
o-Xylene	5.00	0.19 U	4.64	93	77-120	
sec-Butylbenzene	5.00	0.17 U	5.00	100	80-120	
Styrene	5.00	0.17 U	0.17 U	0	77-120	F
tert-Butylbenzene	5.00	0.16 U	5.09	102	76-120	
1,1,1,2-Tetrachloroethane	5.00	0.21 U	4.39	88	77-120	
1,1,2,2-Tetrachloroethane	5.00	0.21 U	4.65	93	73-120	
Tetrachloroethene	5.00	0.20 U	4.98	100	77-120	
Toluene	5.00	0.17 U	5.45	109	73-120	
trans-1,2-Dichloroethene	5.00	0.15 U	5.46	109	80-120	
trans-1,3-Dichloropropene	5.00	0.19 U	4.80	96	72-120	
1,2,3-Trichlorobenzene	5.00	0.21 U	3.78	76	66-123	
1,2,4-Trichlorobenzene	5.00	0.21 U	4.00	80	73-121	
1,1,1-Trichloroethane	5.00	0.16 U	5.10	102	78-120	
1,1,2-Trichloroethane	5.00	0.27 U	4.42	88	76-120	
Trichloroethene	5.00	0.16 U	4.92	98	78-122	
Trichlorofluoromethane	5.00	0.29 U	5.17	103	63-135	
1,2,3-Trichloropropane	5.00	0.33 U	4.21	84	72-120	
1,2,4-Trimethylbenzene	5.00	0.15 U	5.06	101	77-120	
1,3,5-Trimethylbenzene	5.00	0.16 U	5.20	104	77-120	
Vinyl chloride	5.00	0.10 U	4.79	96	49-136	
Xylenes, Total	15.0	0.19 U	15.3	102	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4811.D

Lab ID: 280-22998-C-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	20.0	9.5 U	19.5	98	48-130	
Benzene	5.00	1.6 J	6.12	90	77-120	
Bromobenzene	5.00	0.85 U	5.13	103	75-120	
Bromodichloromethane	5.00	0.85 U	4.36	87	78-120	
Bromoform	5.00	0.95 U	4.24	85	74-121	
Bromomethane	5.00	1.1 U	3.84	77	42-154	
2-Butanone (MEK)	20.0	10 U	18.3	91	57-120	
Carbon tetrachloride	5.00	0.95 U	4.05	81	80-120	
Chlorobenzene	5.00	0.85 U	5.13	103	78-120	
Bromochloromethane	5.00	0.50 U	4.04	81	78-120	
Dibromochloromethane	5.00	0.85 U	4.38	88	76-120	
Chloroethane	5.00	2.1 U	4.96	99	51-133	
Chloroform	5.00	0.82 J	5.28	89	78-120	
Chloromethane	5.00	1.5 U	4.08	82	46-142	
2-Chlorotoluene	5.00	0.85 U	5.15	103	76-120	
4-Chlorotoluene	5.00	1.1 U	5.17	103	78-120	
cis-1,2-Dichloroethene	5.00	0.75 U	4.61	92	75-120	
cis-1,3-Dichloropropene	5.00	0.80 U	4.11	82	76-120	
1,2-Dibromo-3-Chloropropane	5.00	2.4 U	4.32 J	86	65-120	
1,2-Dibromoethane (EDB)	5.00	0.90 U	4.59	92	77-120	
Dibromomethane	5.00	0.85 U	3.91	78	77-120	
1,2-Dichlorobenzene	5.00	0.75 U	5.06	101	76-120	
1,3-Dichlorobenzene	5.00	0.65 U	5.13	103	75-120	
1,4-Dichlorobenzene	5.00	0.80 U	5.15	103	77-120	
Dichlorodifluoromethane	5.00	2.7 J	5.82	62	56-140	
1,1-Dichloroethane	5.00	37	43.9	145	77-120	4
1,2-Dichloroethane	5.00	0.65 U	4.15	83	74-120	
1,1-Dichloroethene	5.00	1.2 J	5.86	117	68-133	
1,2-Dichloroethene, Total	10.0	1.2 U	9.18	92	78-120	
1,2-Dichloropropane	5.00	0.90 U	4.44	89	76-120	
1,3-Dichloropropane	5.00	1.1 U	4.79	96	75-120	
2,2-Dichloropropane	5.00	0.90 U	4.42	88	72-128	
1,1-Dichloropropene	5.00	0.95 U	4.17	83	75-120	
Ethylbenzene	5.00	0.80 U	5.02	100	78-120	
Hexachlorobutadiene	5.00	0.60 U	4.82	96	73-123	
2-Hexanone	20.0	8.5 U	16.3	81	57-121	
Isopropylbenzene	5.00	0.95 U	5.79	116	71-120	
4-Isopropyltoluene	5.00	1.0 U	5.05	101	76-120	
Methylene Chloride	5.00	190	191	-53	60-134	E 4
4-Methyl-2-pentanone	20.0	4.9 U	14.4	72	65-120	
Methyl tert-butyl ether	5.00	1.3 U	4.02 J	80	58-120	
m-Xylene & p-Xylene	10.0	1.7 U	11.2	112	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4811.D

Lab ID: 280-22998-C-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Naphthalene	5.00	1.1 U	4.73	95	62-121	
n-Butylbenzene	5.00	0.70 U	5.01	100	76-120	
n-Propylbenzene	5.00	0.80 U	5.10	102	76-120	
o-Xylene	5.00	0.95 U	5.21	104	77-120	
sec-Butylbenzene	5.00	0.85 U	5.02	100	80-120	
Styrene	5.00	0.85 U	4.93	99	77-120	
tert-Butylbenzene	5.00	0.80 U	5.19	104	76-120	
1,1,1,2-Tetrachloroethane	5.00	1.1 U	4.69	94	77-120	
1,1,2,2-Tetrachloroethane	5.00	1.1 U	5.09	102	73-120	
Tetrachloroethene	5.00	2.2 J	7.57	108	77-120	
Toluene	5.00	2.0 J	6.32	86	73-120	
trans-1,2-Dichloroethene	5.00	0.75 U	4.58	92	80-120	
trans-1,3-Dichloropropene	5.00	0.95 U	3.91	78	72-120	
1,2,3-Trichlorobenzene	5.00	1.1 U	4.77	95	66-123	
1,2,4-Trichlorobenzene	5.00	1.1 U	4.90	98	73-121	
1,1,1-Trichloroethane	5.00	0.80 U	4.78	96	78-120	
1,1,2-Trichloroethane	5.00	1.4 U	4.08	82	76-120	
Trichloroethene	5.00	1.2 J	5.81	92	78-122	
Trichlorofluoromethane	5.00	1.5 U	4.31	86	63-135	
1,2,3-Trichloropropane	5.00	1.7 U	5.32	106	72-120	
1,2,4-Trimethylbenzene	5.00	0.75 U	5.66	113	77-120	
1,3,5-Trimethylbenzene	5.00	0.80 U	5.49	110	77-120	
Vinyl chloride	5.00	0.50 U	4.22	84	49-136	
Xylenes, Total	15.0	0.95 U	16.4	109	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4882.D

Lab ID: 280-23072-A-4 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	20.0	1.9 U	17.1	85	48-130	
Benzene	5.00	0.16 U	4.36	87	77-120	
Bromobenzene	5.00	0.17 U	5.22	104	75-120	
Bromodichloromethane	5.00	0.17 U	4.29	86	78-120	
Bromoform	5.00	0.19 U	3.89	78	74-121	
Bromomethane	5.00	0.21 U	3.46	69	42-154	
2-Butanone (MEK)	20.0	2.0 U	17.6	88	57-120	
Carbon tetrachloride	5.00	0.19 U	3.84	77	80-120	F
Chlorobenzene	5.00	0.17 U	5.22	104	78-120	
Bromochloromethane	5.00	0.10 U	4.21	84	78-120	
Dibromochloromethane	5.00	0.17 U	4.35	87	76-120	
Chloroethane	5.00	0.41 U	3.95	79	51-133	
Chloroform	5.00	0.16 U	4.48	90	78-120	
Chloromethane	5.00	0.30 U	3.73	75	46-142	
2-Chlorotoluene	5.00	0.17 U	5.26	105	76-120	
4-Chlorotoluene	5.00	0.21 U	5.19	104	78-120	
cis-1,2-Dichloroethene	5.00	3.9	8.22	86	75-120	
cis-1,3-Dichloropropene	5.00	0.16 U	4.01	80	76-120	
1,2-Dibromo-3-Chloropropane	5.00	0.47 U	3.88 J	78	65-120	
1,2-Dibromoethane (EDB)	5.00	0.18 U	4.55	91	77-120	
Dibromomethane	5.00	0.17 U	4.03	81	77-120	
1,2-Dichlorobenzene	5.00	0.15 U	5.17	103	76-120	
1,3-Dichlorobenzene	5.00	0.13 U	5.14	103	75-120	
1,4-Dichlorobenzene	5.00	0.16 U	5.17	103	77-120	
Dichlorodifluoromethane	5.00	0.31 U	3.24	65	56-140	
1,1-Dichloroethane	5.00	0.22 U	4.58	92	77-120	
1,2-Dichloroethane	5.00	0.13 U	4.24	85	74-120	
1,1-Dichloroethene	5.00	0.23 U	3.81	76	68-133	
1,2-Dichloroethene, Total	10.0	4.2	12.7	85	78-120	
1,2-Dichloropropane	5.00	0.18 U	4.27	85	76-120	
1,3-Dichloropropane	5.00	0.22 U	4.84	97	75-120	
2,2-Dichloropropane	5.00	0.18 U	4.15	83	72-128	
1,1-Dichloropropene	5.00	0.19 U	3.85	77	75-120	
Ethylbenzene	5.00	0.16 U	4.74	95	78-120	
Hexachlorobutadiene	5.00	0.12 U	4.24	85	73-123	
2-Hexanone	20.0	1.7 U	15.7	79	57-121	
Isopropylbenzene	5.00	0.19 U	5.48	110	71-120	
4-Isopropyltoluene	5.00	0.20 U	4.68	94	76-120	
Methylene Chloride	5.00	0.52 J	4.75	85	60-134	
4-Methyl-2-pentanone	20.0	0.98 U	14.5	72	65-120	
Methyl tert-butyl ether	5.00	0.25 U	3.90 J	78	58-120	
m-Xylene & p-Xylene	10.0	0.34 U	9.60	96	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4882.D

Lab ID: 280-23072-A-4 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Naphthalene	5.00	0.22 U	4.03	81	62-121	
n-Butylbenzene	5.00	0.14 U	4.60	92	76-120	
n-Propylbenzene	5.00	0.16 U	4.83	97	76-120	
o-Xylene	5.00	0.19 U	4.74	95	77-120	
sec-Butylbenzene	5.00	0.17 U	4.60	92	80-120	
Styrene	5.00	0.17 U	4.68	94	77-120	
tert-Butylbenzene	5.00	0.16 U	4.87	97	76-120	
1,1,1,2-Tetrachloroethane	5.00	0.21 U	4.78	96	77-120	
1,1,2,2-Tetrachloroethane	5.00	0.21 U	5.35	107	73-120	
Tetrachloroethene	5.00	0.20 U	4.69	94	77-120	
Toluene	5.00	0.17 U	4.19	84	73-120	
trans-1,2-Dichloroethene	5.00	0.25 J	4.50	85	80-120	
trans-1,3-Dichloropropene	5.00	0.19 U	3.87	77	72-120	
1,2,3-Trichlorobenzene	5.00	0.21 U	4.12	82	66-123	
1,2,4-Trichlorobenzene	5.00	0.21 U	4.33	87	73-121	
1,1,1-Trichloroethane	5.00	0.16 U	4.07	81	78-120	
1,1,2-Trichloroethane	5.00	0.27 U	4.25	85	76-120	
Trichloroethene	5.00	1.6	5.72	82	78-122	
Trichlorofluoromethane	5.00	0.29 U	3.78	76	63-135	
1,2,3-Trichloropropane	5.00	0.33 U	5.48	110	72-120	
1,2,4-Trimethylbenzene	5.00	0.15 U	5.03	101	77-120	
1,3,5-Trimethylbenzene	5.00	0.16 U	5.08	102	77-120	
Vinyl chloride	5.00	0.10 U	3.71	74	49-136	
Xylenes, Total	15.0	0.19 U	14.3	96	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms2845.D

Lab ID: 280-22946-B-1 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	19.1	96	7	41	48-130	
Benzene	5.00	5.40	108	0	20	77-120	
Bromobenzene	5.00	4.28	86	1	20	75-120	
Bromodichloromethane	5.00	4.84	97	2	20	78-120	
Bromoform	5.00	3.73	75	2	21	74-121	
Bromomethane	5.00	4.44	89	0	24	42-154	
2-Butanone (MEK)	20.0	23.7	119	7	32	57-120	
Carbon tetrachloride	5.00	4.96	99	5	21	80-120	
Chlorobenzene	5.00	4.88	98	0	20	78-120	
Bromochloromethane	5.00	4.29	86	4	20	78-120	
Dibromochloromethane	5.00	4.29	86	4	20	76-120	
Chloroethane	5.00	5.29	106	3	25	51-133	
Chloroform	5.00	4.95	99	1	20	78-120	
Chloromethane	5.00	4.48	90	2	24	46-142	
2-Chlorotoluene	5.00	4.78	96	1	20	76-120	
4-Chlorotoluene	5.00	4.83	97	0	20	78-120	
cis-1,2-Dichloroethene	5.00	4.86	97	1	20	75-120	
cis-1,3-Dichloropropene	5.00	4.62	92	3	20	76-120	
1,2-Dibromo-3-Chloropropane	5.00	3.18 J	64	10	22	65-120	F
1,2-Dibromoethane (EDB)	5.00	4.36	87	5	20	77-120	
Dibromomethane	5.00	4.53	91	4	20	77-120	
1,2-Dichlorobenzene	5.00	4.39	88	1	20	76-120	
1,3-Dichlorobenzene	5.00	4.60	92	1	20	75-120	
1,4-Dichlorobenzene	5.00	4.90	98	2	23	77-120	
Dichlorodifluoromethane	5.00	4.68	94	11	24	56-140	
1,1-Dichloroethane	5.00	5.28	106	0	21	77-120	
1,2-Dichloroethane	5.00	4.53	91	4	20	74-120	
1,1-Dichloroethene	5.00	5.42	108	4	20	68-133	
1,2-Dichloroethene, Total	10.0	10.2	102	1	20	78-120	
1,2-Dichloropropane	5.00	4.97	99	1	20	76-120	
1,3-Dichloropropane	5.00	4.56	91	2	20	75-120	
2,2-Dichloropropane	5.00	5.34	107	4	24	72-128	
1,1-Dichloropropene	5.00	5.05	101	3	21	75-120	
Ethylbenzene	5.00	5.06	101	1	26	78-120	
Hexachlorobutadiene	5.00	4.76	95	7	25	73-123	
2-Hexanone	20.0	18.8	94	6	25	57-121	
Isopropylbenzene	5.00	5.64	113	2	20	71-120	
4-Isopropyltoluene	5.00	5.21	104	2	20	76-120	
Methylene Chloride	5.00	5.01	100	0	20	60-134	
4-Methyl-2-pentanone	20.0	20.2	101	5	22	65-120	
Methyl tert-butyl ether	5.00	4.28 J	76	1	21	58-120	
m-Xylene & p-Xylene	10.0	10.5	105	1	20	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ms2845.D

Lab ID: 280-22946-B-1 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	5.00	3.21	64	2	32	62-121	
n-Butylbenzene	5.00	5.27	105	2	21	76-120	
n-Propylbenzene	5.00	4.90	98	1	20	76-120	
o-Xylene	5.00	4.64	93	0	20	77-120	
sec-Butylbenzene	5.00	4.89	98	2	21	80-120	
Styrene	5.00	0.17 U	0	NC	20	77-120	F
tert-Butylbenzene	5.00	5.06	101	0	21	76-120	
1,1,1,2-Tetrachloroethane	5.00	4.38	88	0	20	77-120	
1,1,2,2-Tetrachloroethane	5.00	4.82	96	4	20	73-120	
Tetrachloroethene	5.00	4.90	98	2	20	77-120	
Toluene	5.00	5.42	108	1	20	73-120	
trans-1,2-Dichloroethene	5.00	5.30	106	3	24	80-120	
trans-1,3-Dichloropropene	5.00	4.89	98	2	20	72-120	
1,2,3-Trichlorobenzene	5.00	3.65	73	4	29	66-123	
1,2,4-Trichlorobenzene	5.00	3.85	77	4	25	73-121	
1,1,1-Trichloroethane	5.00	4.89	98	4	20	78-120	
1,1,2-Trichloroethane	5.00	4.51	90	2	21	76-120	
Trichloroethene	5.00	4.80	96	3	20	78-122	
Trichlorofluoromethane	5.00	4.76	95	8	20	63-135	
1,2,3-Trichloropropane	5.00	4.22	84	0	23	72-120	
1,2,4-Trimethylbenzene	5.00	5.04	101	1	20	77-120	
1,3,5-Trimethylbenzene	5.00	5.18	104	0	20	77-120	
Vinyl chloride	5.00	4.42	88	8	24	49-136	
Xylenes, Total	15.0	15.2	101	1	20	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4812.D

Lab ID: 280-22998-C-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	21.1	106	8	41	48-130	
Benzene	5.00	6.32	94	3	20	77-120	
Bromobenzene	5.00	5.29	106	3	20	75-120	
Bromodichloromethane	5.00	4.50	90	3	20	78-120	
Bromoform	5.00	4.44	89	5	21	74-121	
Bromomethane	5.00	3.99	80	4	24	42-154	
2-Butanone (MEK)	20.0	19.7	99	8	32	57-120	
Carbon tetrachloride	5.00	4.30	86	6	21	80-120	
Chlorobenzene	5.00	5.41	108	5	20	78-120	
Bromochloromethane	5.00	4.33	87	7	20	78-120	
Dibromochloromethane	5.00	4.59	92	5	20	76-120	
Chloroethane	5.00	4.93	99	1	25	51-133	
Chloroform	5.00	5.45	93	3	20	78-120	
Chloromethane	5.00	4.20	84	3	24	46-142	
2-Chlorotoluene	5.00	5.44	109	5	20	76-120	
4-Chlorotoluene	5.00	5.38	108	4	20	78-120	
cis-1,2-Dichloroethene	5.00	4.93	99	7	20	75-120	
cis-1,3-Dichloropropene	5.00	4.39	88	7	20	76-120	
1,2-Dibromo-3-Chloropropane	5.00	4.54 J	91	5	22	65-120	
1,2-Dibromoethane (EDB)	5.00	4.83	97	5	20	77-120	
Dibromomethane	5.00	4.16	83	6	20	77-120	
1,2-Dichlorobenzene	5.00	5.24	105	3	20	76-120	
1,3-Dichlorobenzene	5.00	5.35	107	4	20	75-120	
1,4-Dichlorobenzene	5.00	5.33	107	3	23	77-120	
Dichlorodifluoromethane	5.00	5.47	54	6	24	56-140	F
1,1-Dichloroethane	5.00	43.5	135	1	21	77-120	4
1,2-Dichloroethane	5.00	4.50	90	8	20	74-120	
1,1-Dichloroethene	5.00	5.79	116	1	20	68-133	
1,2-Dichloroethene, Total	10.0	9.70	97	5	20	78-120	
1,2-Dichloropropane	5.00	4.71	94	6	20	76-120	
1,3-Dichloropropane	5.00	5.05	101	5	20	75-120	
2,2-Dichloropropane	5.00	4.58	92	4	24	72-128	
1,1-Dichloropropene	5.00	4.33	87	4	21	75-120	
Ethylbenzene	5.00	5.28	106	5	26	78-120	
Hexachlorobutadiene	5.00	4.90	98	2	25	73-123	
2-Hexanone	20.0	17.1	86	5	25	57-121	
Isopropylbenzene	5.00	6.01	120	4	20	71-120	
4-Isopropyltoluene	5.00	5.23	105	3	20	76-120	
Methylene Chloride	5.00	188	-96	1	20	60-134	E 4
4-Methyl-2-pentanone	20.0	15.4	77	7	22	65-120	
Methyl tert-butyl ether	5.00	4.35 J	87	8	21	58-120	
m-Xylene & p-Xylene	10.0	11.4	114	2	20	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4812.D

Lab ID: 280-22998-C-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	5.00	4.87	97	3	32	62-121	
n-Butylbenzene	5.00	5.10	102	2	21	76-120	
n-Propylbenzene	5.00	5.26	105	3	20	76-120	
o-Xylene	5.00	5.49	110	5	20	77-120	
sec-Butylbenzene	5.00	5.15	103	3	21	80-120	
Styrene	5.00	5.09	102	3	20	77-120	
tert-Butylbenzene	5.00	5.33	107	3	21	76-120	
1,1,1,2-Tetrachloroethane	5.00	5.14	103	9	20	77-120	
1,1,2,2-Tetrachloroethane	5.00	5.54	111	9	20	73-120	
Tetrachloroethene	5.00	7.66	110	1	20	77-120	
Toluene	5.00	6.38	87	1	20	73-120	
trans-1,2-Dichloroethene	5.00	4.77	95	4	24	80-120	
trans-1,3-Dichloropropene	5.00	4.25	85	8	20	72-120	
1,2,3-Trichlorobenzene	5.00	4.79	96	0	29	66-123	
1,2,4-Trichlorobenzene	5.00	4.95	99	1	25	73-121	
1,1,1-Trichloroethane	5.00	5.00	100	4	20	78-120	
1,1,2-Trichloroethane	5.00	4.42	88	8	21	76-120	
Trichloroethene	5.00	5.94	95	2	20	78-122	
Trichlorofluoromethane	5.00	4.14	83	4	20	63-135	
1,2,3-Trichloropropane	5.00	5.50	110	3	23	72-120	
1,2,4-Trimethylbenzene	5.00	5.83	117	3	20	77-120	
1,3,5-Trimethylbenzene	5.00	5.58	112	2	20	77-120	
Vinyl chloride	5.00	3.98	80	6	24	49-136	
Xylenes, Total	15.0	16.9	113	3	20	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4883.D

Lab ID: 280-23072-A-4 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	16.2	81	5	41	48-130	
Benzene	5.00	4.57	91	5	20	77-120	
Bromobenzene	5.00	5.28	106	1	20	75-120	
Bromodichloromethane	5.00	4.29	86	0	20	78-120	
Bromoform	5.00	4.01	80	3	21	74-121	
Bromomethane	5.00	3.61	72	4	24	42-154	
2-Butanone (MEK)	20.0	18.5	93	5	32	57-120	
Carbon tetrachloride	5.00	4.17	83	8	21	80-120	
Chlorobenzene	5.00	5.44	109	4	20	78-120	
Bromochloromethane	5.00	4.24	85	1	20	78-120	
Dibromochloromethane	5.00	4.25	85	2	20	76-120	
Chloroethane	5.00	4.13	83	4	25	51-133	
Chloroform	5.00	4.71	94	5	20	78-120	
Chloromethane	5.00	3.86	77	3	24	46-142	
2-Chlorotoluene	5.00	5.39	108	2	20	76-120	
4-Chlorotoluene	5.00	5.35	107	3	20	78-120	
cis-1,2-Dichloroethene	5.00	8.02	81	3	20	75-120	
cis-1,3-Dichloropropene	5.00	4.05	81	1	20	76-120	
1,2-Dibromo-3-Chloropropane	5.00	3.79 J	76	2	22	65-120	
1,2-Dibromoethane (EDB)	5.00	4.59	92	1	20	77-120	
Dibromomethane	5.00	4.04	81	0	20	77-120	
1,2-Dichlorobenzene	5.00	5.26	105	2	20	76-120	
1,3-Dichlorobenzene	5.00	5.30	106	3	20	75-120	
1,4-Dichlorobenzene	5.00	5.33	107	3	23	77-120	
Dichlorodifluoromethane	5.00	3.59	72	10	24	56-140	
1,1-Dichloroethane	5.00	4.80	96	5	21	77-120	
1,2-Dichloroethane	5.00	4.17	83	2	20	74-120	
1,1-Dichloroethene	5.00	4.53	91	17	20	68-133	
1,2-Dichloroethene, Total	10.0	12.8	87	1	20	78-120	
1,2-Dichloropropane	5.00	4.30	86	1	20	76-120	
1,3-Dichloropropane	5.00	4.90	98	1	20	75-120	
2,2-Dichloropropane	5.00	4.40	88	6	24	72-128	
1,1-Dichloropropene	5.00	4.14	83	7	21	75-120	
Ethylbenzene	5.00	5.12	102	8	26	78-120	
Hexachlorobutadiene	5.00	4.53	91	7	25	73-123	
2-Hexanone	20.0	15.8	79	1	25	57-121	
Isopropylbenzene	5.00	5.93	119	8	20	71-120	
4-Isopropyltoluene	5.00	5.08	102	8	20	76-120	
Methylene Chloride	5.00	4.90	88	3	20	60-134	
4-Methyl-2-pentanone	20.0	14.2	71	2	22	65-120	
Methyl tert-butyl ether	5.00	4.13 J	83	6	21	58-120	
m-Xylene & p-Xylene	10.0	10.2	102	7	20	78-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: E4883.D

Lab ID: 280-23072-A-4 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	5.00	3.96	79	2	32	62-121	
n-Butylbenzene	5.00	4.93	99	7	21	76-120	
n-Propylbenzene	5.00	5.29	106	9	20	76-120	
o-Xylene	5.00	5.00	100	5	20	77-120	
sec-Butylbenzene	5.00	5.11	102	11	21	80-120	
Styrene	5.00	4.86	97	4	20	77-120	
tert-Butylbenzene	5.00	5.15	103	6	21	76-120	
1,1,1,2-Tetrachloroethane	5.00	5.03	101	5	20	77-120	
1,1,2,2-Tetrachloroethane	5.00	5.27	105	2	20	73-120	
Tetrachloroethene	5.00	5.14	103	9	20	77-120	
Toluene	5.00	4.43	89	6	20	73-120	
trans-1,2-Dichloroethene	5.00	4.83	92	7	24	80-120	
trans-1,3-Dichloropropene	5.00	3.78	76	2	20	72-120	
1,2,3-Trichlorobenzene	5.00	4.25	85	3	29	66-123	
1,2,4-Trichlorobenzene	5.00	4.33	87	0	25	73-121	
1,1,1-Trichloroethane	5.00	4.39	88	8	20	78-120	
1,1,2-Trichloroethane	5.00	4.17	83	2	21	76-120	
Trichloroethene	5.00	5.95	87	4	20	78-122	
Trichlorofluoromethane	5.00	3.92	78	4	20	63-135	
1,2,3-Trichloropropane	5.00	5.53	111	1	23	72-120	
1,2,4-Trimethylbenzene	5.00	5.23	105	4	20	77-120	
1,3,5-Trimethylbenzene	5.00	5.32	106	5	20	77-120	
Vinyl chloride	5.00	4.09	82	10	24	49-136	
Xylenes, Total	15.0	15.3	102	6	20	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab File ID: ms2837.D Lab Sample ID: MB 280-97860/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: MSV_MS1 Date Analyzed: 11/28/2011 18:42

GC Column: DB-624 (60.25) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-97860/4	ms2836.D	11/28/2011 18:22
TRIP BLANK	280-23016-6	ms2840.D	11/28/2011 19:52
	280-22946-B-1 MS	ms2844.D	11/28/2011 21:13
	280-22946-B-1 MSD	ms2845.D	11/28/2011 21:33
MW-7-111611	280-23016-2	ms2850.D	11/28/2011 23:12

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab File ID: E4806.D Lab Sample ID: MB 280-98185/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: MSV_E Date Analyzed: 11/29/2011 21:59

GC Column: DB-624 (75.53) ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-98185/4	E4805.D	11/29/2011 21:35
	280-22998-C-2 MS	E4811.D	11/29/2011 23:38
	280-22998-C-2 MSD	E4812.D	11/29/2011 23:57
MW-14-111611	280-23016-1	E4828.D	11/30/2011 05:03

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab File ID: E4869.D Lab Sample ID: MB 280-98252/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: MSV_E Date Analyzed: 11/30/2011 19:57

GC Column: DB-624 (75.53) ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-98252/4	E4868.D	11/30/2011 19:38
	LCSD 280-98252/6	E4870.D	11/30/2011 20:16
	280-23072-A-4 MS	E4882.D	12/01/2011 00:06
	280-23072-A-4 MSD	E4883.D	12/01/2011 00:25
MW-3-111711	280-23016-3	E4886.D	12/01/2011 01:24
MW-15-111711	280-23016-4	E4887.D	12/01/2011 01:44
MW-5-111711	280-23016-5	E4888.D	12/01/2011 02:03

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab File ID: E3670.D BFB Injection Date: 11/01/2011

Instrument ID: MSV_E BFB Injection Time: 17:11

Analysis Batch No.: 94522

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	49.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.3	(0.4)1
174	50.0 - 120.00 % of mass 95	86.8	
175	5.0 - 9.0 % of mass 174	5.9	(6.8)1
176	95.0 - 101.0 % of mass 174	85.5	(98.6)1
177	5.0 - 9.0 % of mass 176	6.4	(7.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-94522/2	E3675.D	11/01/2011	18:52
	IC 280-94522/3	E3676.D	11/01/2011	19:11
	IC 280-94522/4	E3677.D	11/01/2011	19:31
	IC 280-94522/5	E3678.D	11/01/2011	19:50
	IC 280-94522/6	E3679.D	11/01/2011	20:10
	IC 280-94522/7	E3680.D	11/01/2011	20:30
	IC 280-94522/8	E3681.D	11/01/2011	20:49
	ICV 280-94522/9	E3682.D	11/01/2011	21:09
	ICV 280-94522/10	E3683.D	11/01/2011	21:28
	ICV 280-94522/11	E3684.D	11/01/2011	21:48
	IC 280-94522/14	E3692.D	11/02/2011	00:34
	IC 280-94522/15	E3693.D	11/02/2011	00:54
	IC 280-94522/16	E3694.D	11/02/2011	01:13
	ICIS 280-94522/17	E3695.D	11/02/2011	01:32
	IC 280-94522/18	E3696.D	11/02/2011	01:52
	IC 280-94522/19	E3697.D	11/02/2011	02:11
	ICV 280-94522/20	E3698.D	11/02/2011	02:30

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab File ID: E4601.D BFB Injection Date: 11/28/2011

Instrument ID: MSV_E BFB Injection Time: 10:09

Analysis Batch No.: 97801

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	73.1	
175	5.0 - 9.0 % of mass 174	6.4	(8.8)1
176	95.0 - 101.0 % of mass 174	72.1	(98.7)1
177	5.0 - 9.0 % of mass 176	5.7	(7.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-97801/2	E4602.D	11/28/2011	10:19
	IC 280-97801/3	E4603.D	11/28/2011	10:38
	IC 280-97801/4	E4604.D	11/28/2011	10:57
	IC 280-97801/5	E4605.D	11/28/2011	11:16
	IC 280-97801/6	E4606.D	11/28/2011	11:35
	IC 280-97801/7	E4607.D	11/28/2011	11:55
	IC 280-97801/8	E4608.D	11/28/2011	12:14
	ICV 280-97801/9	E4609.D	11/28/2011	12:33
	ICV 280-97801/10	E4610.D	11/28/2011	12:52
	ICV 280-97801/11	E4611.D	11/28/2011	13:11
	IC 280-97801/12	E4612.D	11/28/2011	13:31
	IC 280-97801/13	E4613.D	11/28/2011	13:50
	IC 280-97801/14	E4614.D	11/28/2011	14:09
	ICIS 280-97801/15	E4615.D	11/28/2011	14:28
	IC 280-97801/16	E4616.D	11/28/2011	14:47
	IC 280-97801/17	E4617.D	11/28/2011	15:06
	ICV 280-97801/18	E4618.D	11/28/2011	15:25

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab File ID: E4802.D BFB Injection Date: 11/29/2011

Instrument ID: MSV_E BFB Injection Time: 20:26

Analysis Batch No.: 98185

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	48.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	65.0	
175	5.0 - 9.0 % of mass 174	5.0	(7.7)1
176	95.0 - 101.0 % of mass 174	62.3	(95.9)1
177	5.0 - 9.0 % of mass 176	4.5	(7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-98185/2	E4803.D	11/29/2011	20:56
	CCV 280-98185/3	E4804.D	11/29/2011	21:16
	LCS 280-98185/4	E4805.D	11/29/2011	21:35
	MB 280-98185/5	E4806.D	11/29/2011	21:59
	280-22998-C-2 MS	E4811.D	11/29/2011	23:38
	280-22998-C-2 MSD	E4812.D	11/29/2011	23:57
MW-14-111611	280-23016-1	E4828.D	11/30/2011	05:03

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab File ID: E4865.D BFB Injection Date: 11/30/2011

Instrument ID: MSV_E BFB Injection Time: 18:27

Analysis Batch No.: 98252

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	47.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	72.4	
175	5.0 - 9.0 % of mass 174	4.4	(6.1)1
176	95.0 - 101.0 % of mass 174	70.6	(97.5)1
177	5.0 - 9.0 % of mass 176	4.7	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-98252/2	E4866.D	11/30/2011	18:58
	CCV 280-98252/3	E4867.D	11/30/2011	19:17
	LCS 280-98252/4	E4868.D	11/30/2011	19:38
	MB 280-98252/5	E4869.D	11/30/2011	19:57
	LCSD 280-98252/6	E4870.D	11/30/2011	20:16
	280-23072-A-4 MS	E4882.D	12/01/2011	00:06
	280-23072-A-4 MSD	E4883.D	12/01/2011	00:25
MW-3-111711	280-23016-3	E4886.D	12/01/2011	01:24
MW-15-111711	280-23016-4	E4887.D	12/01/2011	01:44
MW-5-111711	280-23016-5	E4888.D	12/01/2011	02:03

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab File ID: ms1774.D BFB Injection Date: 11/01/2011

Instrument ID: MSV_MS1 BFB Injection Time: 16:30

Analysis Batch No.: 94480

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	49.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	82.6	
175	5.0 - 9.0 % of mass 174	6.0	(7.3)1
176	95.0 - 101.0 % of mass 174	81.2	(98.3)1
177	5.0 - 9.0 % of mass 176	5.3	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-94480/2	ms1776.D	11/01/2011	17:19
	IC 280-94480/3	ms1777.D	11/01/2011	17:39
	IC 280-94480/4	ms1778.D	11/01/2011	17:59
	IC 280-94480/5	ms1779.D	11/01/2011	18:19
	IC 280-94480/6	ms1780.D	11/01/2011	18:39
	IC 280-94480/7	ms1781.D	11/01/2011	18:59
	IC 280-94480/8	ms1782.D	11/01/2011	19:19
	ICV 280-94480/9	ms1784.D	11/01/2011	19:59
	ICV 280-94480/10	ms1785.D	11/01/2011	20:19
	IC 280-94480/12	ms1787.D	11/01/2011	21:00
	IC 280-94480/13	ms1788.D	11/01/2011	21:20
	IC 280-94480/14	ms1789.D	11/01/2011	21:40
	ICIS 280-94480/15	ms1790.D	11/01/2011	22:00
	IC 280-94480/16	ms1791.D	11/01/2011	22:20
	IC 280-94480/17	ms1792.D	11/01/2011	22:40
	ICV 280-94480/18	ms1794.D	11/01/2011	23:20
	IC 280-94480/25	ms1795.D	11/01/2011	23:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab File ID: ms1805.D BFB Injection Date: 11/02/2011

Instrument ID: MSV_MS1 BFB Injection Time: 07:52

Analysis Batch No.: 94525

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	47.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	80.1	
175	5.0 - 9.0 % of mass 174	6.6	(8.2)1
176	95.0 - 101.0 % of mass 174	78.4	(97.9)1
177	5.0 - 9.0 % of mass 176	5.4	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 280-94525/3	ms1807.D	11/02/2011	08:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab File ID: ms2833.D BFB Injection Date: 11/28/2011

Instrument ID: MSV_MS1 BFB Injection Time: 17:20

Analysis Batch No.: 97860

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.2	
75	30.0 - 60.0 % of mass 95	47.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.2	(0.2)1
174	50.0 - 120.00 % of mass 95	79.9	
175	5.0 - 9.0 % of mass 174	5.5	(6.8)1
176	95.0 - 101.0 % of mass 174	76.3	(95.4)1
177	5.0 - 9.0 % of mass 176	5.1	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-97860/2	ms2834.D	11/28/2011	17:42
	CCV 280-97860/3	ms2835.D	11/28/2011	18:02
	LCS 280-97860/4	ms2836.D	11/28/2011	18:22
	MB 280-97860/5	ms2837.D	11/28/2011	18:42
TRIP BLANK	280-23016-6	ms2840.D	11/28/2011	19:52
	280-22946-B-1 MS	ms2844.D	11/28/2011	21:13
	280-22946-B-1 MSD	ms2845.D	11/28/2011	21:33
MW-7-111611	280-23016-2	ms2850.D	11/28/2011	23:12

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Sample No.: ICIS 280-94522/17 Date Analyzed: 11/02/2011 01:32

Instrument ID: MSV_E GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): E3695.D Heated Purge: (Y/N) N

Calibration ID: 7695

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1372566	8.17	269832	10.47	368830	12.43
UPPER LIMIT		2745132	8.67	539664	10.97	737660	12.93
LOWER LIMIT		686283	7.67	134916	9.97	184415	11.93
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-94522/9		1450398	8.17	293656	10.47	437576	12.43
ICV 280-94522/10		1455300	8.17	286791	10.47	416975	12.43
ICV 280-94522/11		1398765	8.16	297623	10.47	456698	12.43
ICV 280-94522/20		1467271	8.17	293924	10.47	414239	12.43
CCV 280-98252/2		1949690	8.17	367921	10.47	438247	12.42
CCV 280-98252/3		1882799	8.17	368072	10.47	456035	12.42
LCS 280-98252/4		1756168	8.17	338045	10.47	436901	12.42
MB 280-98252/5		1783140	8.17	353461	10.47	452097	12.42
LCSD 280-98252/6		1973041	8.17	384930	10.47	492791	12.42
280-23072-A-4 MS		1894651	8.17	372391	10.47	464843	12.42
280-23072-A-4 MSD		1880951	8.17	363703	10.46	458240	12.42
280-23016-3	MW-3-111711	1807490	8.16	347107	10.46	428722	12.42
280-23016-4	MW-15-111711	1847292	8.17	365876	10.47	456347	12.42
280-23016-5	MW-5-111711	1978412	8.16	388651	10.46	476178	12.42

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Sample No.: ICIS 280-97801/15 Date Analyzed: 11/28/2011 14:28

Instrument ID: MSV_E GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): E4615.D Heated Purge: (Y/N) N

Calibration ID: 7918

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1654639	8.17	368895	10.47	478447	12.42
UPPER LIMIT		3309278	8.67	737790	10.97	956894	12.92
LOWER LIMIT		827320	7.67	184448	9.97	239224	11.92
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-97801/9		1668954	8.17	385816	10.47	520575	12.42
ICV 280-97801/10		1661120	8.17	375079	10.47	507473	12.42
ICV 280-97801/11		1676483	8.17	387664	10.47	521766	12.42
ICV 280-97801/18		1859295	8.17	358374	10.47	459910	12.42
CCV 280-98185/2		1836144	8.17	345177	10.47	420190	12.42
CCV 280-98185/3		1757222	8.17	328771	10.47	400026	12.42
LCS 280-98185/4		1850658	8.17	346915	10.47	432089	12.42
MB 280-98185/5		1876793	8.17	349565	10.47	445805	12.42
280-22998-C-2 MS		2031740	8.16	391198	10.46	491298	12.42
280-22998-C-2 MSD		2041818	8.17	392308	10.47	493882	12.42
280-23016-1	MW-14-111611	1775593	8.17	332119	10.46	432526	12.42

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Sample No.: ICIS 280-94480/15 Date Analyzed: 11/01/2011 22:00

Instrument ID: MSV_MS1 GC Column: DB-624 (60.25) ID: 0.25(mm)

Lab File ID (Standard): ms1790.D Heated Purge: (Y/N) N

Calibration ID: 7689

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1405084	8.34	271610	10.59	379803	12.53
UPPER LIMIT		2810168	8.84	543220	11.09	759606	13.03
LOWER LIMIT		702542	7.84	135805	10.09	189902	12.03
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-94480/9		1463700	8.34	294456	10.59	413541	12.53
ICV 280-94480/10		1509575	8.34	294691	10.59	404248	12.53
ICV 280-94480/18		1412758	8.34	277665	10.59	383534	12.53
ICV 280-94525/3		1319747	8.34	265958	10.59	393912	12.53
CCV 280-97860/2		1380810	8.34	289752	10.59	408345	12.53
CCV 280-97860/3		1457977	8.34	292912	10.59	387491	12.53
LCS 280-97860/4		1401591	8.34	299154	10.59	406307	12.52
MB 280-97860/5		1361907	8.34	279014	10.59	373066	12.53
280-23016-6	TRIP BLANK	1343106	8.34	276493	10.59	353636	12.53
280-22946-B-1 MS		1454960	8.34	304337	10.59	418489	12.53
280-22946-B-1 MSD		1436317	8.34	296275	10.59	407185	12.53
280-23016-2	MW-7-111611	1220550	8.34	249160	10.59	320907	12.53

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-14-111611 | Lab Sample ID: 280-23016-1

Matrix: Water | Lab File ID: E4828.D

Analysis Method: 8260B | Date Collected: 11/16/2011 14:45

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 05:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-14-111611 | Lab Sample ID: 280-23016-1

Matrix: Water | Lab File ID: E4828.D

Analysis Method: 8260B | Date Collected: 11/16/2011 14:45

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 05:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.62	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-14-111611 Lab Sample ID: 280-23016-1

Matrix: Water Lab File ID: E4828.D

Analysis Method: 8260B Date Collected: 11/16/2011 14:45

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 05:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		78-120
1868-53-7	Dibromofluoromethane (Surr)	90		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-127
2037-26-5	Toluene-d8 (Surr)	111		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4828.D
Lab Smp Id: 280-23016-B-1 Client Smp ID: MW-14-111611
Inj Date : 30-NOV-2011 05:03
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23016-b-1,,pH7 ncm pH
Misc Info : 280-23016-B-1
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.167	8.166	(1.000)	1775593	12.5000		
*	87 Chlorobenzene-d5	119	10.462	10.469	(1.000)	332119	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	432526	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	346423	11.7604	11.7604	
$	57 1,2-Dichloroethane-d4	65	7.910	7.916	(0.968)	286629	11.9583	11.9583	
$	75 Toluene-d8	98	9.340	9.346	(0.893)	1789449	14.3823	14.3823	
$	98 4-Bromofluorobenzene (Surr)	95	11.378	11.384	(0.916)	516648	13.8476	13.8476	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	5.877	5.879	(0.720)	94556	134.155	134.155(Q)
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.279	6.272	(0.769)	21872	0.62135	0.621346(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79 1,1,2-Trichloroethane	97	Compound Not Detected.					
80 2-Hexanone	43	Compound Not Detected.					
81 1,3-Dichloropropane	76	Compound Not Detected.					
82 Tetrachloroethene	164	Compound Not Detected.					
83 Dibromochloromethane	129	Compound Not Detected.					
84 Tetrahydrothiophene	60	Compound Not Detected.					
85 1,2-Dibromoethane	107	Compound Not Detected.					
86 1-Chlorohexane	91	Compound Not Detected.					
88 Chlorobenzene	112	Compound Not Detected.					
89 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90 Ethylbenzene	106	Compound Not Detected.					
91 m and p-Xylene	106	Compound Not Detected.					
92 o-Xylene	106	Compound Not Detected.					
93 Styrene	104	Compound Not Detected.					
94 Bromoform	173	Compound Not Detected.					
95 isopropyl benzene	105	Compound Not Detected.					
96 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97 Cyclohexanone	55	Compound Not Detected.					
99 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100 t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101 1,2,3-Trichloropropane	110	Compound Not Detected.					
103 Bromobenzene	156	Compound Not Detected.					
102 n-Propylbenzene	120	Compound Not Detected.					
105 2-Chlorotoluene	126	Compound Not Detected.					
104 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106 4-Chlorotoluene	126	Compound Not Detected.					
107 tert-Butylbenzene	119	Compound Not Detected.					
108 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109 sec-Butylbenzene	134	Compound Not Detected.					
110 4-Isopropyltoluene	119	Compound Not Detected.					
111 1,3-Dichlorobenzene	146	Compound Not Detected.					
113 1,4-dichlorobenzene	146	Compound Not Detected.					
114 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115 n-Butylbenzene	91	Compound Not Detected.					
116 1,2-Dichlorobenzene	146	Compound Not Detected.					
117 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119 Hexachlorobutadiene	225	Compound Not Detected.					
120 Naphthalene	128	Compound Not Detected.					
121 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

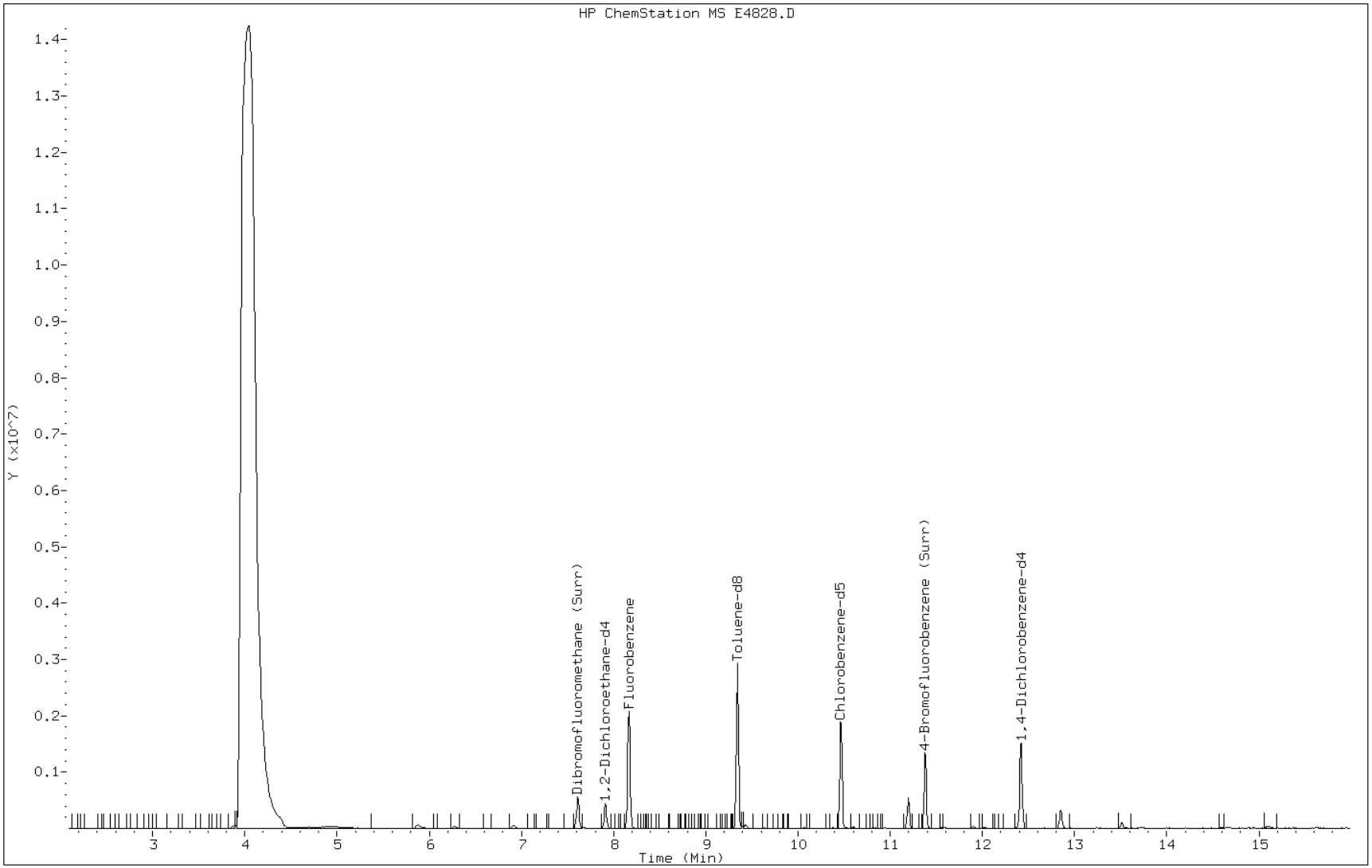
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4828.D

Date: 30-NOV-2011 05:03

Client ID: MW-14-111611 Instrument: E.i

Sample Info: 280-23016-b-1,,pH7 ncm pH Operator: TINKHAMS



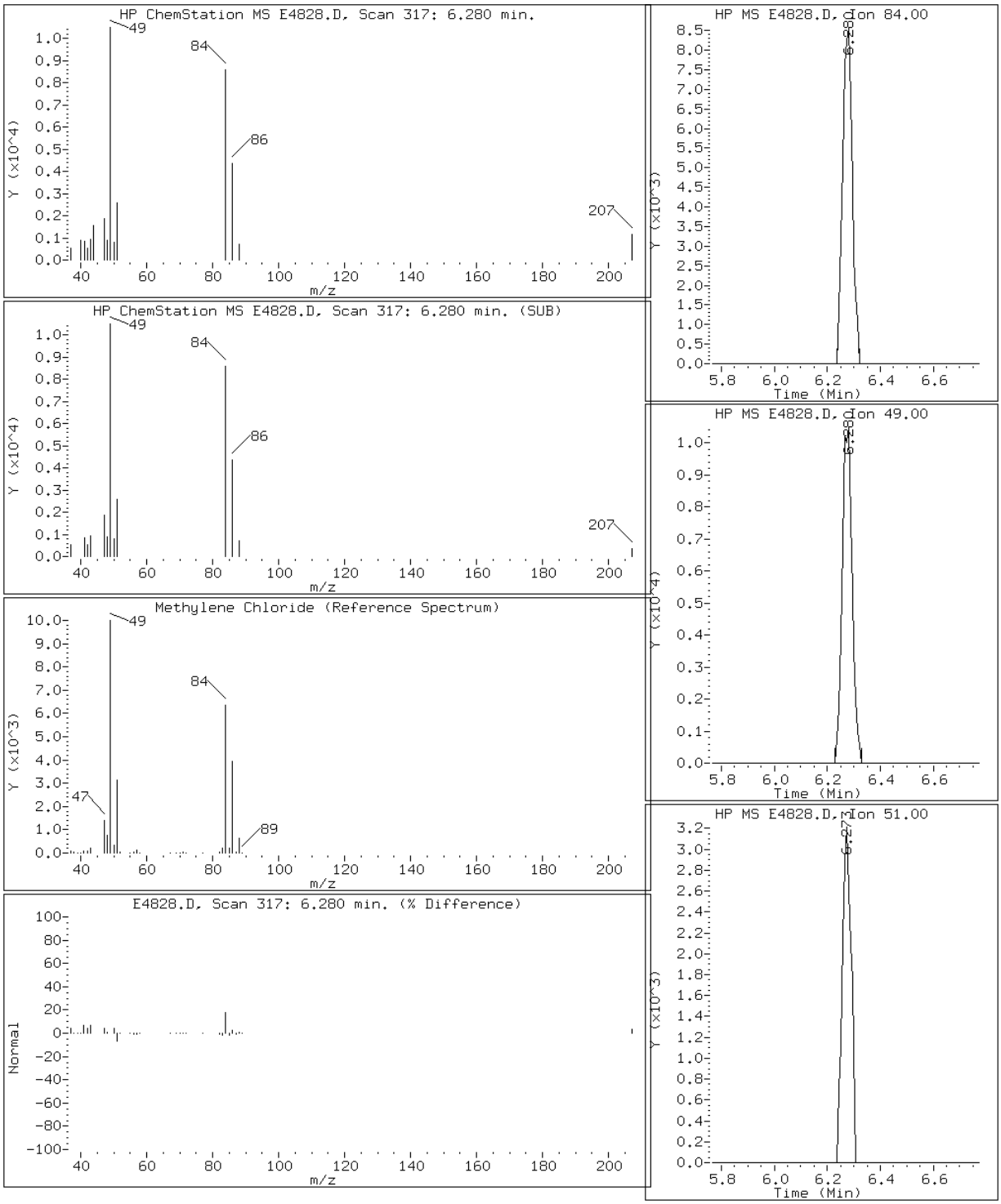
Data File: E4828.D

Date: 30-NOV-2011 05:03

Client ID: MW-14-111611 Instrument: E.i

Sample Info: 280-23016-b-1,,pH7 ncm pH Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-7-111611 | Lab Sample ID: 280-23016-2

Matrix: Water | Lab File ID: ms2850.D

Analysis Method: 8260B | Date Collected: 11/16/2011 15:50

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 23:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	3.0	J	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-7-111611 | Lab Sample ID: 280-23016-2

Matrix: Water | Lab File ID: ms2850.D

Analysis Method: 8260B | Date Collected: 11/16/2011 15:50

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 23:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-7-111611 Lab Sample ID: 280-23016-2

Matrix: Water Lab File ID: ms2850.D

Analysis Method: 8260B Date Collected: 11/16/2011 15:50

Sample wt/vol: 20(mL) Date Analyzed: 11/28/2011 23:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 97860 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
1868-53-7	Dibromofluoromethane (Surr)	97		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-127
2037-26-5	Toluene-d8 (Surr)	103		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\ms2850.D
Lab Smp Id: 280-23016-A-2 Client Smp ID: MW-7-111611
Inj Date : 28-NOV-2011 23:12
Operator : SEIFERTJ Inst ID: GCMS1.i
Smp Info : 280-23016-a-2,,PH<2
Misc Info : 280-23016-A-2
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\8260B-H2O.m
Meth Date : 28-Nov-2011 23:49 seifertj Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41 Cal File: ms1801.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 69 Fluorobenzene	96	8.339	8.339	(1.000)	1220550	12.5000		
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	249160	12.5000		
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	320907	12.5000		(Q)
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	469700	9.66562	9.66562	
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	353791	9.27951	9.27951	
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	2324643	10.2757	10.2757	
$ 106 4-Bromofluorobenzene (Surr)	95	11.482	11.482	(0.916)	599946	10.2766	10.2766	
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M 2 Xylene (total)	106	Compound Not Detected.						
5 dichlorodifluoromethane	85	Compound Not Detected.						
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
7 Chloromethane	50	Compound Not Detected.						
8 Vinyl Chloride	62	Compound Not Detected.						
9 Ethylene Oxide	43	Compound Not Detected.						
10 Bromomethane	94	Compound Not Detected.						
11 Chloroethane	64	Compound Not Detected.						
12 Dichlorofluoromethane	67	Compound Not Detected.						
14 Trichlorofluoromethane	101	Compound Not Detected.						
13 Ethanol	45	Compound Not Detected.						
15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.						
17 Ethyl Ether	59	Compound Not Detected.						
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
18 Propylene Oxide	58	Compound Not Detected.					
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	6.077	6.077	(0.729)	11059	2.97518	2.97518
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
27 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
28 Methyl Acetate	43	Compound Not Detected.					
31 Carbon Disulfide	76	Compound Not Detected.					
29 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
33 Methylene Chloride	84	Compound Not Detected.					
34 Acrylonitrile	53	Compound Not Detected.					
35 Methyl t-butyl ether	73	Compound Not Detected.					
36 trans-1,2-Dichloroethene	96	Compound Not Detected.					
40 Hexane	57	Compound Not Detected.					
42 Vinyl acetate	43	Compound Not Detected.					
43 Isopropyl ether	87	Compound Not Detected.					
44 1,1-Dichloroethane	63	Compound Not Detected.					
46 Chloroprene	53	Compound Not Detected.					
48 ETBE	59	Compound Not Detected.					
50 2-Butanone	43	Compound Not Detected.					
49 Ethyl Acetate	43	Compound Not Detected.					
52 cis-1,2-Dichloroethene	96	Compound Not Detected.					
51 Propionitrile	54	Compound Not Detected.					
53 2,2-Dichloropropane	77	Compound Not Detected.					
54 Methacrylonitrile	41	Compound Not Detected.					
55 Bromochloromethane	128	Compound Not Detected.					
56 Chloroform	83	Compound Not Detected.					
57 Tetrahydrofuran	42	Compound Not Detected.					
60 1,1,1-Trichloroethane	97	Compound Not Detected.					
59 Isobutanol	41	Compound Not Detected.					
61 Cyclohexane	56	Compound Not Detected.					
62 1,1-Dichloropropene	75	Compound Not Detected.					
63 Carbon Tetrachloride	117	Compound Not Detected.					
65 1,2-Dichloroethane	62	Compound Not Detected.					
67 Benzene	78	Compound Not Detected.					
66 TAME	73	Compound Not Detected.					
68 n-Butanol	56	Compound Not Detected.					
71 Trichloroethene	130	Compound Not Detected.					
72 2-Pentanone	43	Compound Not Detected.					
73 Methyl Methacrylate	100	Compound Not Detected.					
74 1,2-Dichloropropane	63	Compound Not Detected.					
75 Methyl Cyclohexane	55	Compound Not Detected.					
76 1,4-Dioxane	88	Compound Not Detected.					
77 Dibromomethane	93	Compound Not Detected.					
78 Bromodichloromethane	83	Compound Not Detected.					
79 2-nitropropane	41	Compound Not Detected.					
80 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
81 cis-1,3-Dichloropropene	75	Compound Not Detected.					
82 4-Methyl-2-pentanone	43	Compound Not Detected.					
84 Toluene	91	Compound Not Detected.					
86 trans-1,3-Dichloropropene	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
85	Ethyl methacrylate	69	Compound Not Detected.					
87	1,1,2-Trichloroethane	97	Compound Not Detected.					
88	2-Hexanone	43	Compound Not Detected.					
89	1,3-Dichloropropane	76	Compound Not Detected.					
90	Tetrachloroethene	164	Compound Not Detected.					
91	Dibromochloromethane	129	Compound Not Detected.					
92	Tetrahydrothiophene	60	Compound Not Detected.					
93	1,2-Dibromoethane	107	Compound Not Detected.					
94	1-Chlorohexane	91	Compound Not Detected.					
96	Chlorobenzene	112	Compound Not Detected.					
97	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
98	Ethylbenzene	106	Compound Not Detected.					
99	m and p-Xylene	106	Compound Not Detected.					
101	o-Xylene	106	Compound Not Detected.					
100	Styrene	104	Compound Not Detected.					
102	Bromoform	173	Compound Not Detected.					
103	isopropyl benzene	105	Compound Not Detected.					
104	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
105	Cyclohexanone	55	Compound Not Detected.					
107	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
108	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
109	1,2,3-Trichloropropane	110	Compound Not Detected.					
111	Bromobenzene	156	Compound Not Detected.					
110	n-Propylbenzene	120	Compound Not Detected.					
113	2-Chlorotoluene	126	Compound Not Detected.					
112	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
114	4-Chlorotoluene	126	Compound Not Detected.					
115	tert-Butylbenzene	119	Compound Not Detected.					
116	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
118	sec-Butylbenzene	134	Compound Not Detected.					
119	4-Isopropyltoluene	119	Compound Not Detected.					
120	1,3-Dichlorobenzene	146	Compound Not Detected.					
122	1,4-dichlorobenzene	146	Compound Not Detected.					
123	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124	n-Butylbenzene	91	Compound Not Detected.					
126	1,2-Dichlorobenzene	146	Compound Not Detected.					
127	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
129	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
130	Hexachlorobutadiene	225	Compound Not Detected.					
131	Naphthalene	128	Compound Not Detected.					
132	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
144	Dichloroacetonitrile tic	74	Compound Not Detected.					
145	2,3-Dichloro-1-propene tic	75	Compound Not Detected.					

QC Flag Legend

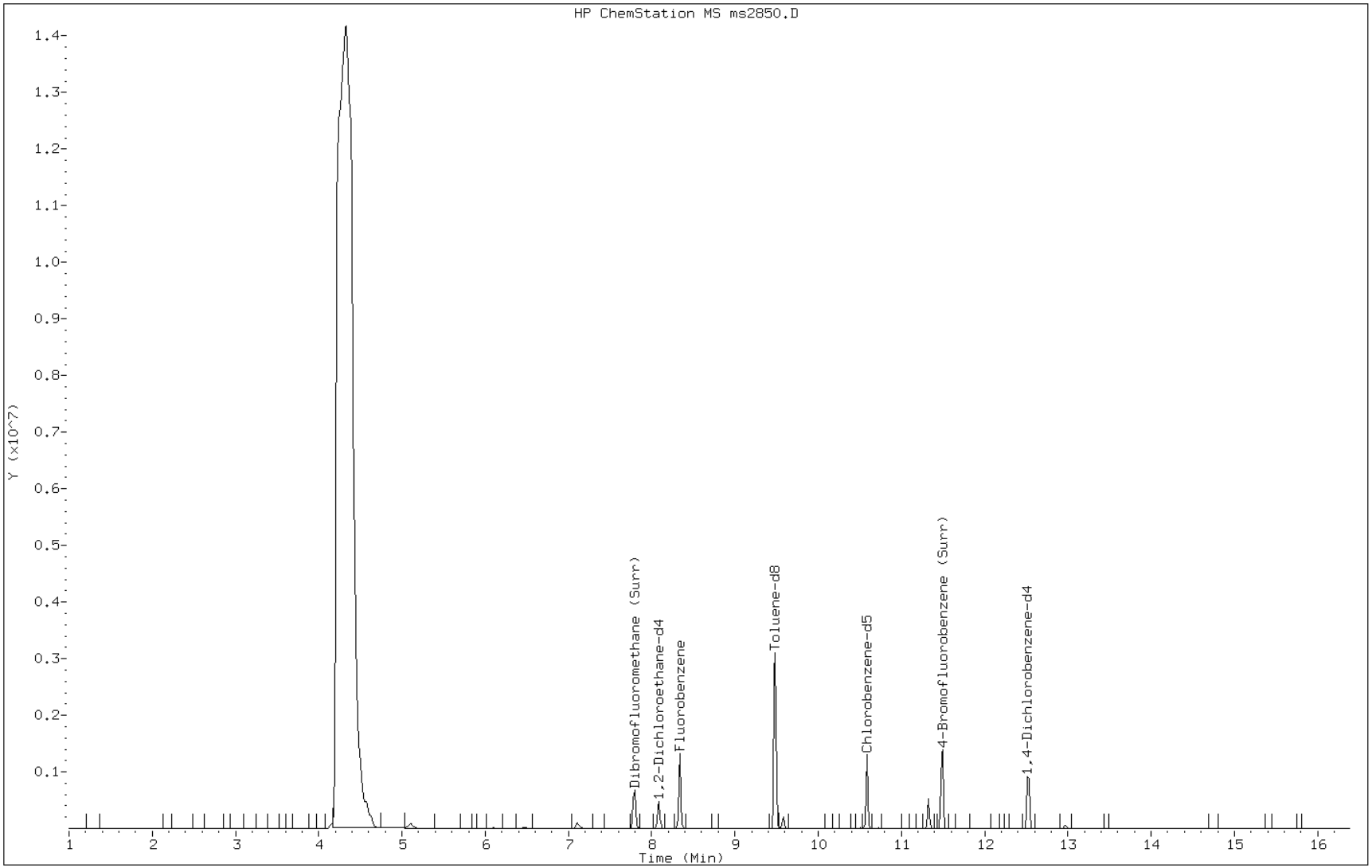
Q - Qualifier signal failed the ratio test.

Data File: ms2850.D

Date: 28-NOV-2011 23:12

Client ID: MW-7-111611 Instrument: GCMS1.i

Sample Info: 280-23016-a-2,,PH<2 Operator: SEIFERTJ



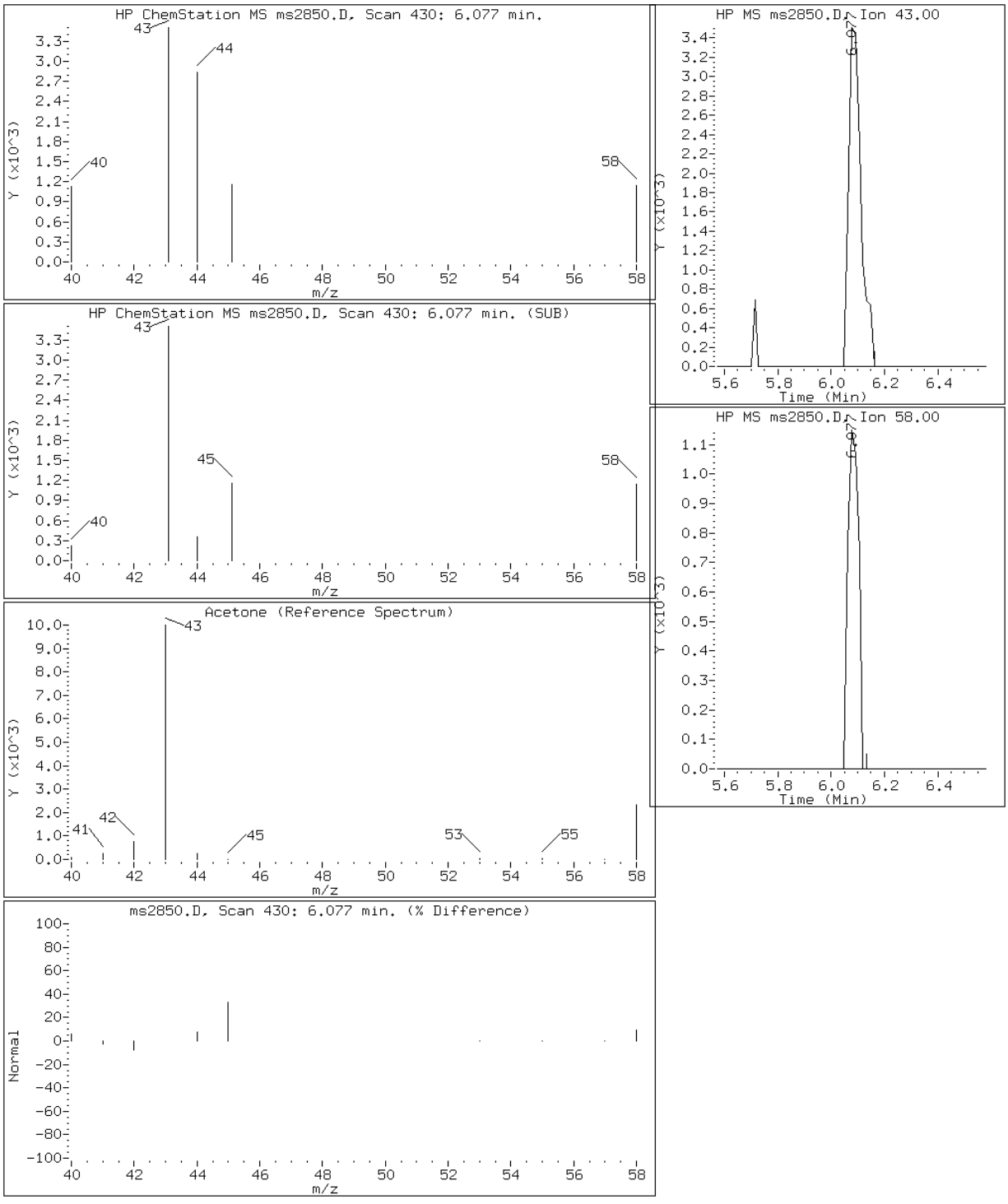
Data File: ms2850.D

Date: 28-NOV-2011 23:12

Client ID: MW-7-111611 Instrument: GCMS1.i

Sample Info: 280-23016-a-2,,PH<2 Operator: SEIFERTJ

20 Acetone



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-3-111711 | Lab Sample ID: 280-23016-3

Matrix: Water | Lab File ID: E4886.D

Analysis Method: 8260B | Date Collected: 11/17/2011 09:00

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2011 01:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-3-111711 | Lab Sample ID: 280-23016-3

Matrix: Water | Lab File ID: E4886.D

Analysis Method: 8260B | Date Collected: 11/17/2011 09:00

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2011 01:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.58	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-3-111711 Lab Sample ID: 280-23016-3

Matrix: Water Lab File ID: E4886.D

Analysis Method: 8260B Date Collected: 11/17/2011 09:00

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2011 01:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98252 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-127
2037-26-5	Toluene-d8 (Surr)	111		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4886.D
Lab Smp Id: 280-23016-A-3 Client Smp ID: MW-3-111711
Inj Date : 01-DEC-2011 01:24
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23016-a-3,,pH<2
Misc Info : 280-23016-A-3
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\8260B-H2O.m
Meth Date : 30-Nov-2011 19:48 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC360

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.160	8.166	(1.000)	1807490	12.5000		
*	87 Chlorobenzene-d5	119	10.463	10.468	(1.000)	347107	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.415	12.420	(1.000)	428722	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.610	7.608	(0.933)	368129	12.2768	12.2768	
$	57 1,2-Dichloroethane-d4	65	7.910	7.908	(0.969)	288046	11.8054	11.8054	
$	75 Toluene-d8	98	9.340	9.346	(0.893)	1880137	14.4587	14.4587	
$	98 4-Bromofluorobenzene (Surr)	95	11.378	11.383	(0.916)	506301	13.6906	13.6906	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.273	6.271	(0.769)	20633	0.57580	0.575804(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

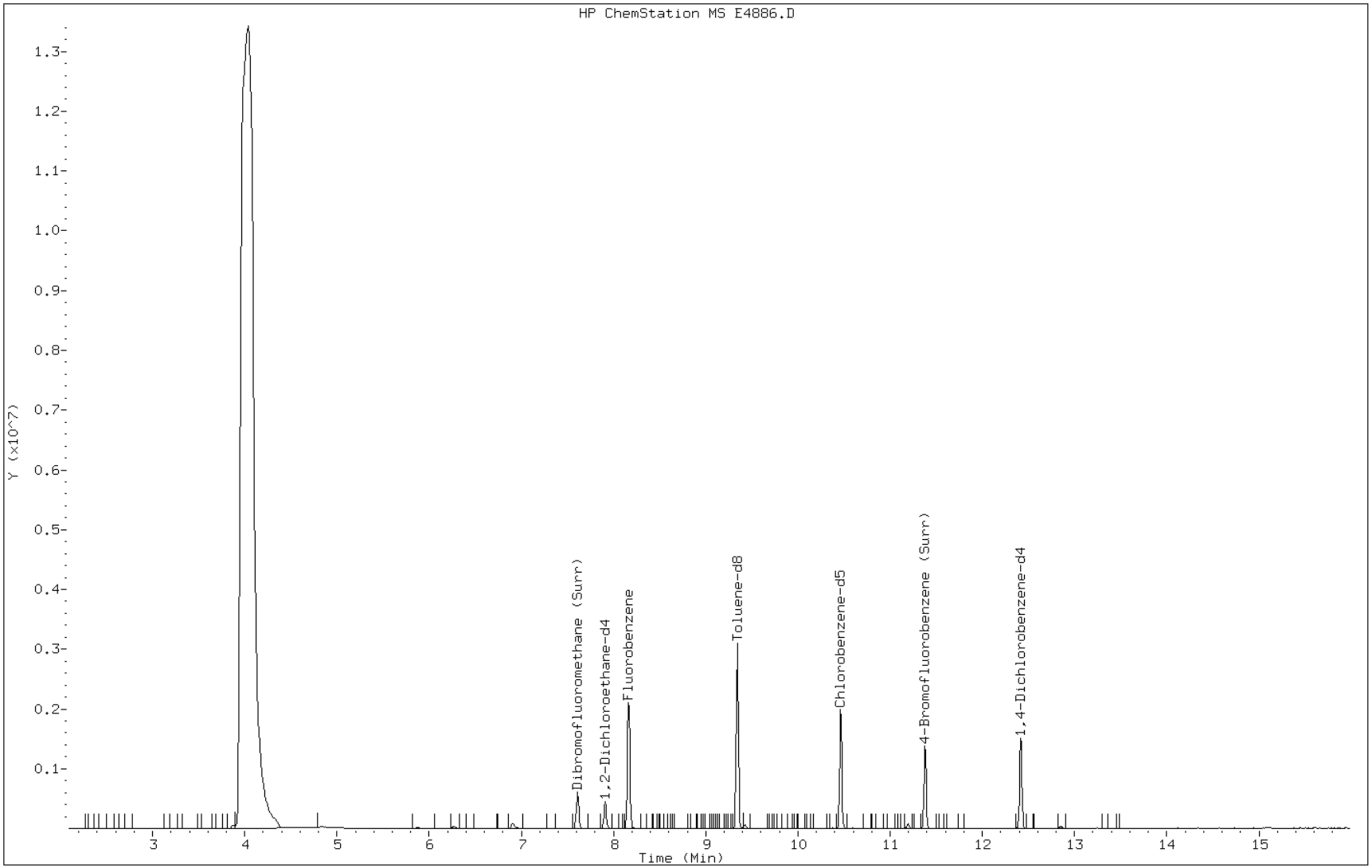
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4886.D

Date: 01-DEC-2011 01:24

Client ID: MW-3-111711 Instrument: E.i

Sample Info: 280-23016-a-3,,pH<2 Operator: TINKHAMS



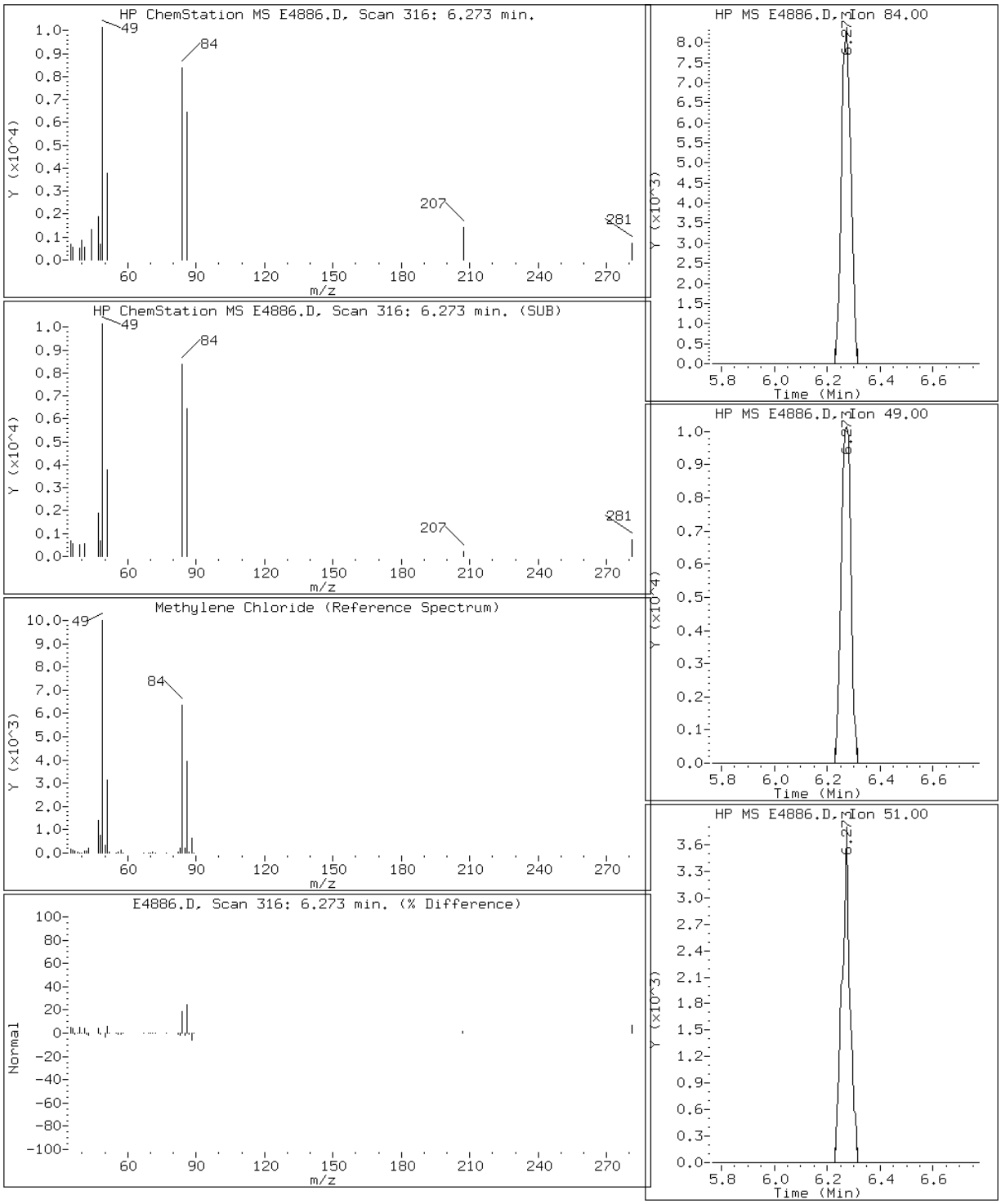
Data File: E4886.D

Date: 01-DEC-2011 01:24

Client ID: MW-3-111711 Instrument: E.i

Sample Info: 280-23016-a-3,,pH<2 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-15-111711 | Lab Sample ID: 280-23016-4

Matrix: Water | Lab File ID: E4887.D

Analysis Method: 8260B | Date Collected: 11/17/2011 09:45

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2011 01:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	6.4	J	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.27	J	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.25	J	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-15-111711 | Lab Sample ID: 280-23016-4

Matrix: Water | Lab File ID: E4887.D

Analysis Method: 8260B | Date Collected: 11/17/2011 09:45

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2011 01:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.60	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-15-111711 Lab Sample ID: 280-23016-4

Matrix: Water Lab File ID: E4887.D

Analysis Method: 8260B Date Collected: 11/17/2011 09:45

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2011 01:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98252 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
1868-53-7	Dibromofluoromethane (Surr)	92		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		70-127
2037-26-5	Toluene-d8 (Surr)	107		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4887.D
Lab Smp Id: 280-23016-A-4 Client Smp ID: MW-15-111711
Inj Date : 01-DEC-2011 01:44
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23016-a-4,,pH<2
Misc Info : 280-23016-A-4
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\8260B-H2O.m
Meth Date : 30-Nov-2011 19:48 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC360

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1847292	12.5000		
*	87 Chlorobenzene-d5	119	10.468	10.468	(1.000)	365876	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.420	12.420	(1.000)	456347	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.608	7.608	(0.932)	368483	12.0238	12.0238	
$	57 1,2-Dichloroethane-d4	65	7.909	7.908	(0.968)	285163	11.4354	11.4354	
$	75 Toluene-d8	98	9.346	9.346	(0.893)	1904134	13.8921	13.8921	
$	98 4-Bromofluorobenzene (Surr)	95	11.377	11.383	(0.916)	523523	13.2994	13.2994	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	5.867	5.864	(0.718)	30789	6.35851	6.35851(a)
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.271	6.271	(0.768)	21923	0.59862	0.598622(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	7.473	7.480	(0.915)	16487	0.26578	0.265785(a)
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	12.442	12.449	(1.002)	14240	0.24999	0.249990(aQ)
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

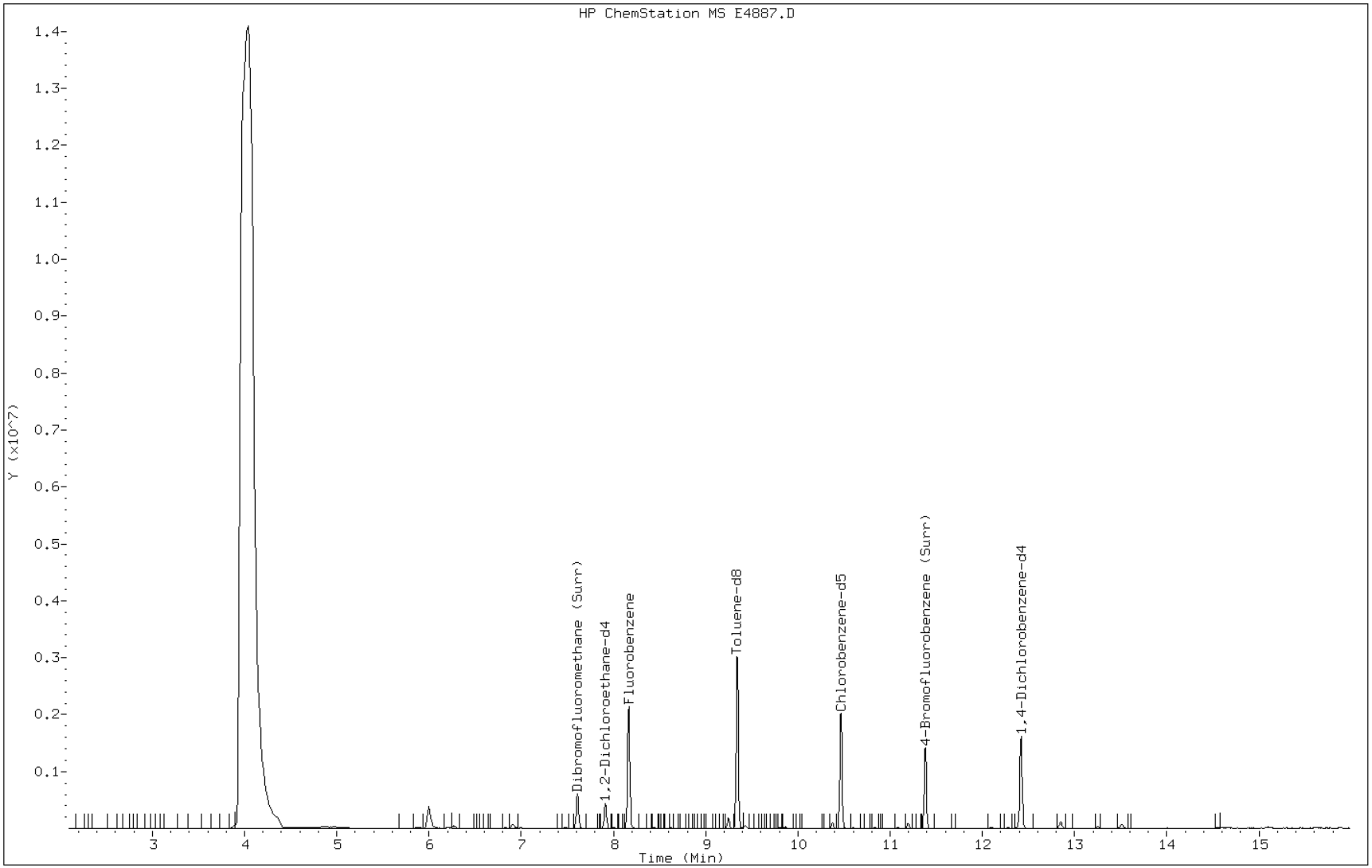
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4887.D

Date: 01-DEC-2011 01:44

Client ID: MW-15-111711 Instrument: E.i

Sample Info: 280-23016-a-4,,pH<2 Operator: TINKHAMS



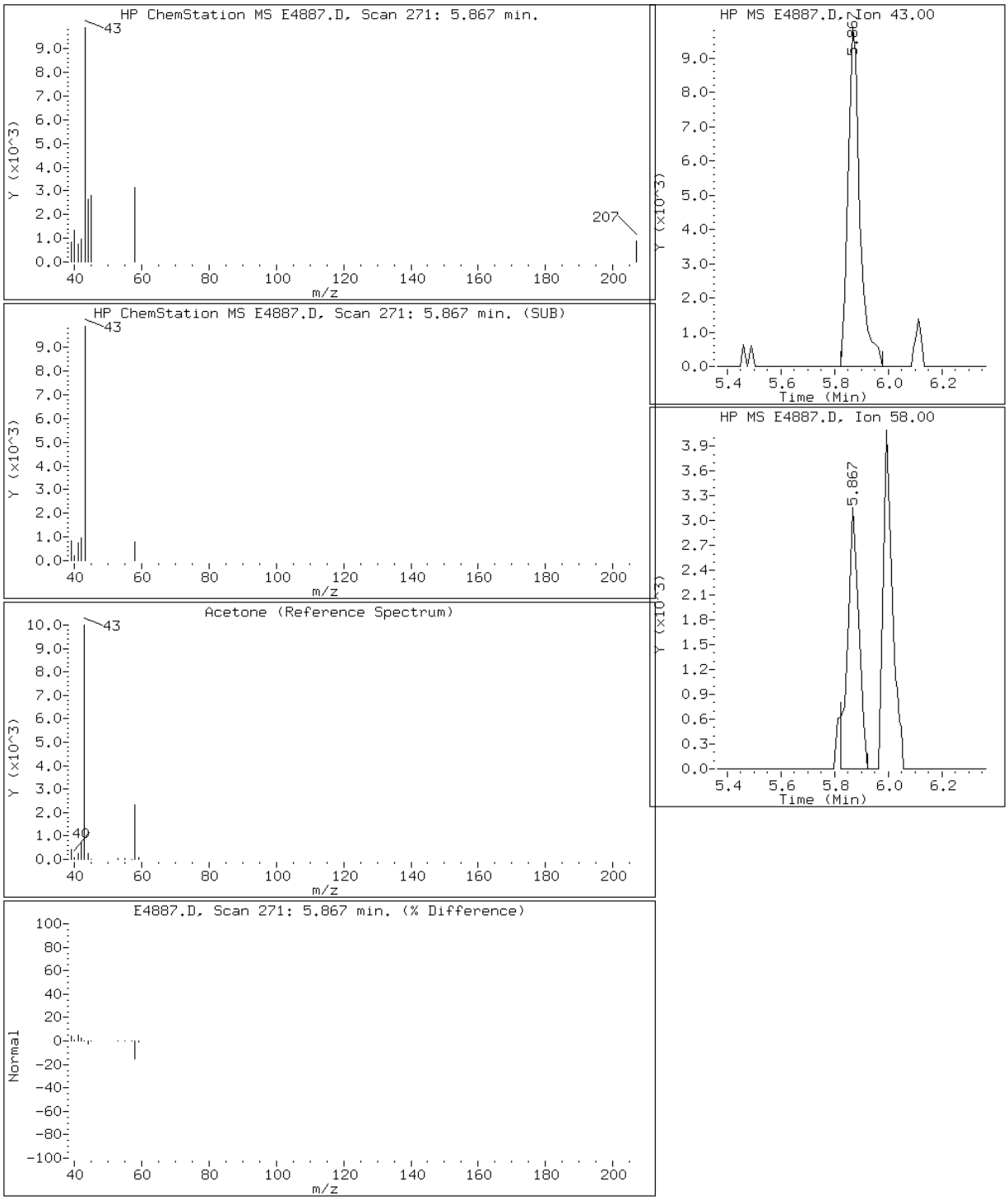
Data File: E4887.D

Date: 01-DEC-2011 01:44

Client ID: MW-15-111711 Instrument: E.i

Sample Info: 280-23016-a-4,,pH<2 Operator: TINKHAMS

22 Acetone



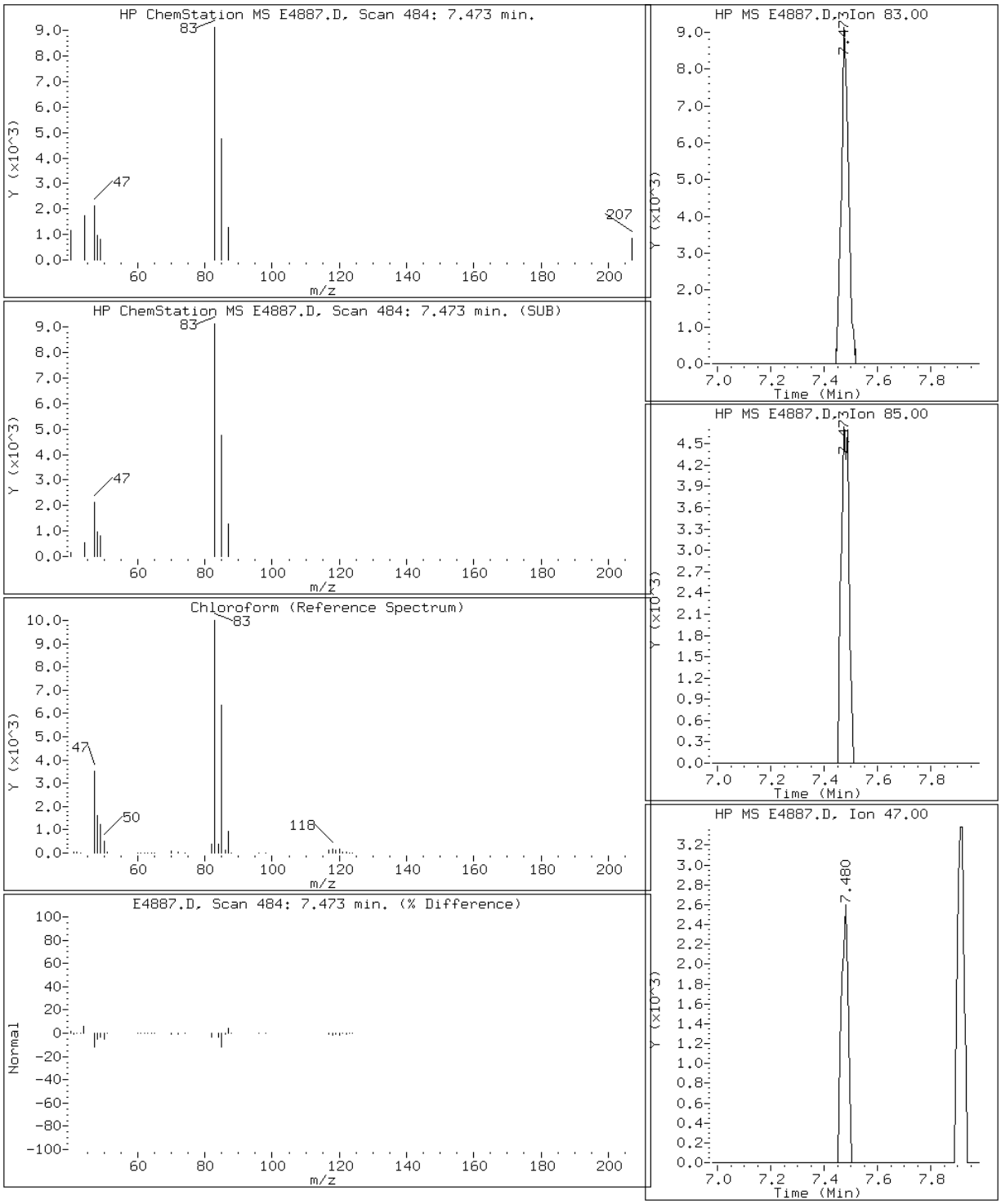
Data File: E4887.D

Date: 01-DEC-2011 01:44

Client ID: MW-15-111711 Instrument: E.i

Sample Info: 280-23016-a-4,,pH<2 Operator: TINKHAMS

49 Chloroform



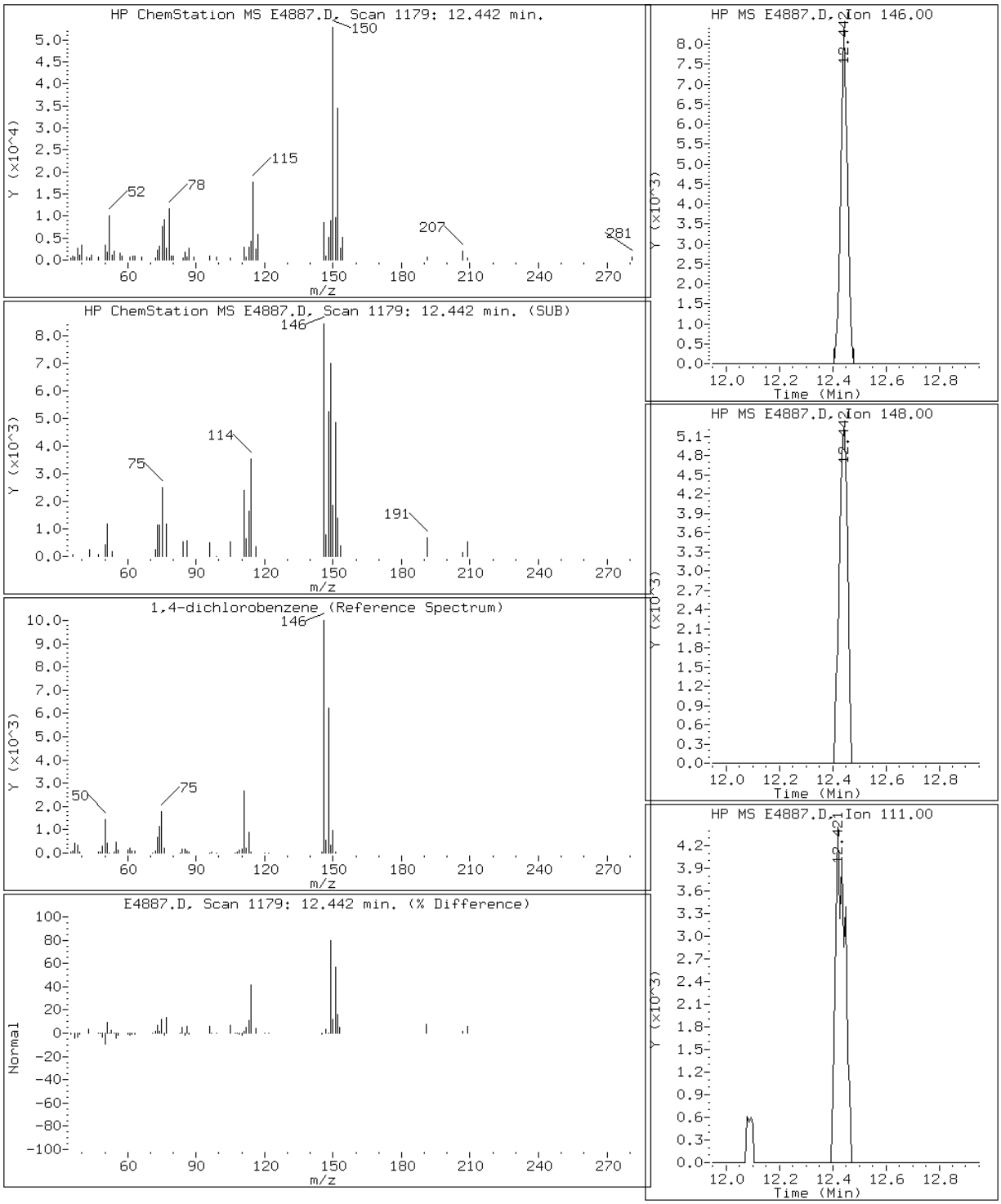
Data File: E4887.D

Date: 01-DEC-2011 01:44

Client ID: MW-15-111711 Instrument: E.i

Sample Info: 280-23016-a-4,,pH<2 Operator: TINKHAMS

113 1,4-dichlorobenzene



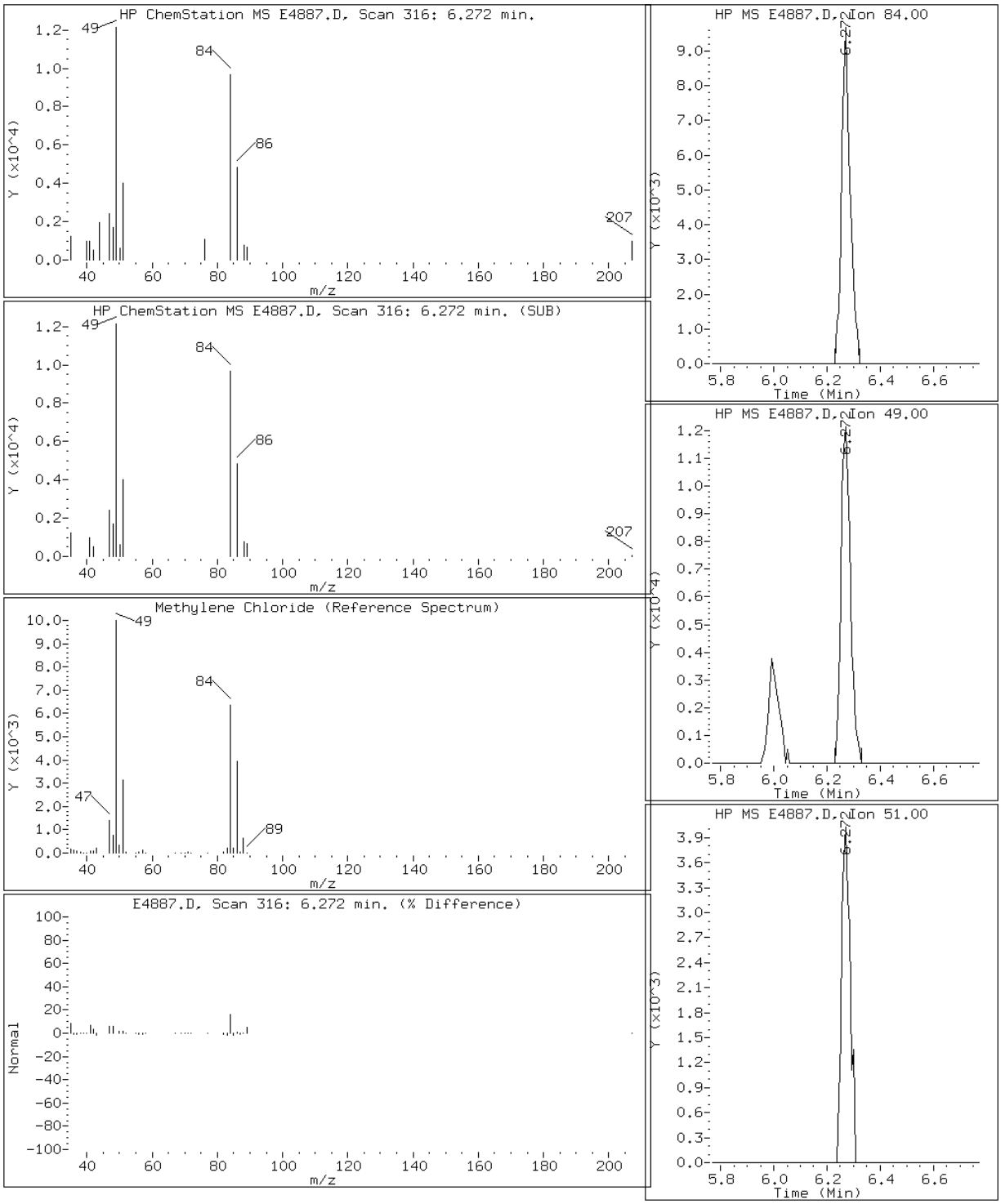
Data File: E4887.D

Date: 01-DEC-2011 01:44

Client ID: MW-15-111711 Instrument: E.i

Sample Info: 280-23016-a-4,,pH<2 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-5-111711 | Lab Sample ID: 280-23016-5

Matrix: Water | Lab File ID: E4888.D

Analysis Method: 8260B | Date Collected: 11/17/2011 10:45

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2011 02:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-5-111711 | Lab Sample ID: 280-23016-5

Matrix: Water | Lab File ID: E4888.D

Analysis Method: 8260B | Date Collected: 11/17/2011 10:45

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2011 02:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U *	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.49	J B	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: MW-5-111711 Lab Sample ID: 280-23016-5

Matrix: Water Lab File ID: E4888.D

Analysis Method: 8260B Date Collected: 11/17/2011 10:45

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2011 02:03

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98252 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		78-120
1868-53-7	Dibromofluoromethane (Surr)	87		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		70-127
2037-26-5	Toluene-d8 (Surr)	99		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4888.D
Lab Smp Id: 280-23016-A-5 Client Smp ID: MW-5-111711
Inj Date : 01-DEC-2011 02:03
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23016-a-5,,pH<2
Misc Info : 280-23016-A-5
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\8260B-H2O.m
Meth Date : 30-Nov-2011 19:48 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC360

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.160	8.166	(1.000)	1978412	12.5000		
*	87 Chlorobenzene-d5	119	10.463	10.468	(1.000)	388651	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.415	12.420	(1.000)	476178	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.610	7.608	(0.933)	369697	11.2639	11.2639	
$	57 1,2-Dichloroethane-d4	65	7.910	7.908	(0.969)	290590	10.8807	10.8807	
$	75 Toluene-d8	98	9.340	9.346	(0.893)	1872088	12.8579	12.8579	
$	98 4-Bromofluorobenzene (Surr)	95	11.378	11.383	(0.916)	506195	12.3236	12.3236	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.273	6.271	(0.769)	19230	0.49029	0.490288(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

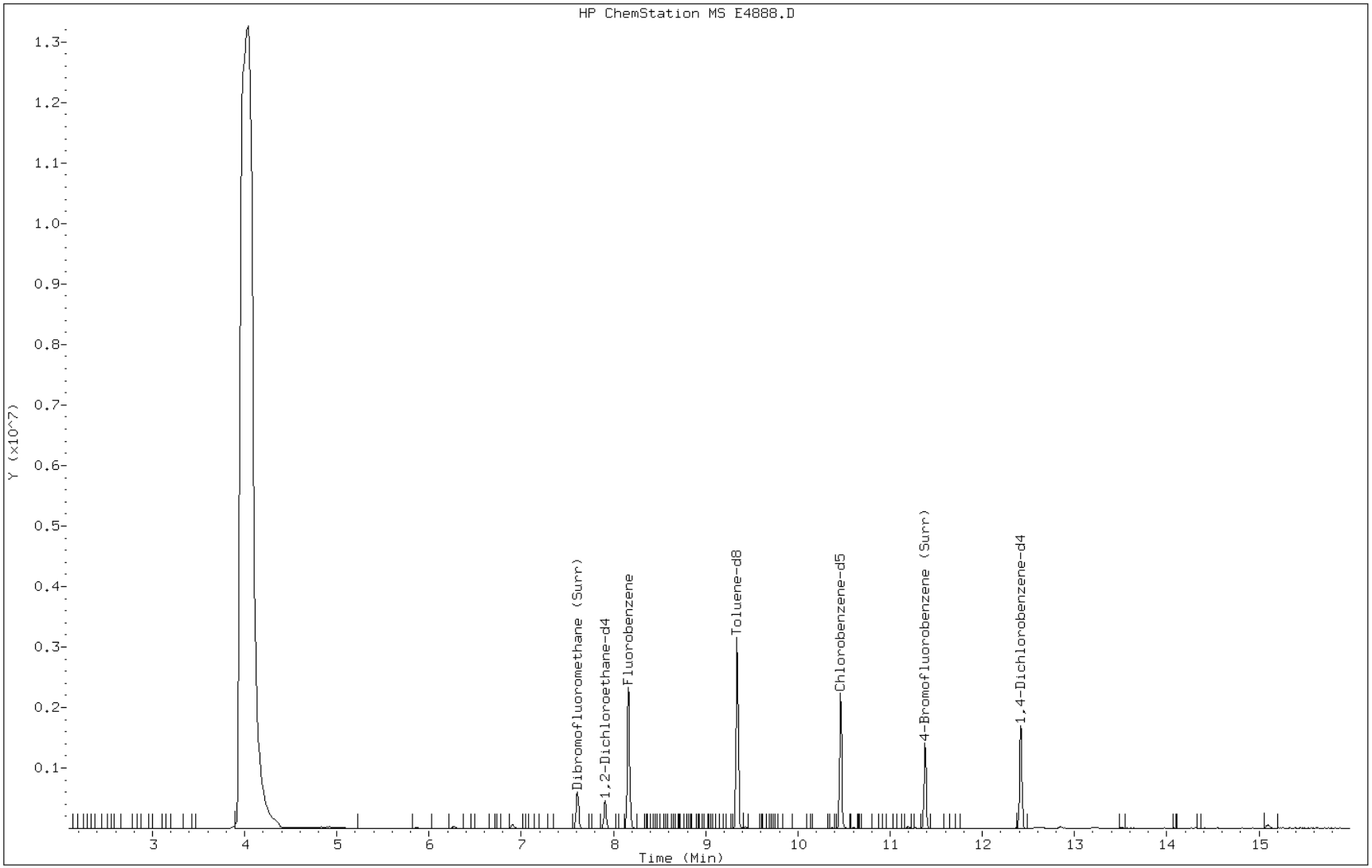
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4888.D

Date: 01-DEC-2011 02:03

Client ID: MW-5-111711 Instrument: E.i

Sample Info: 280-23016-a-5,,pH<2 Operator: TINKHAMS



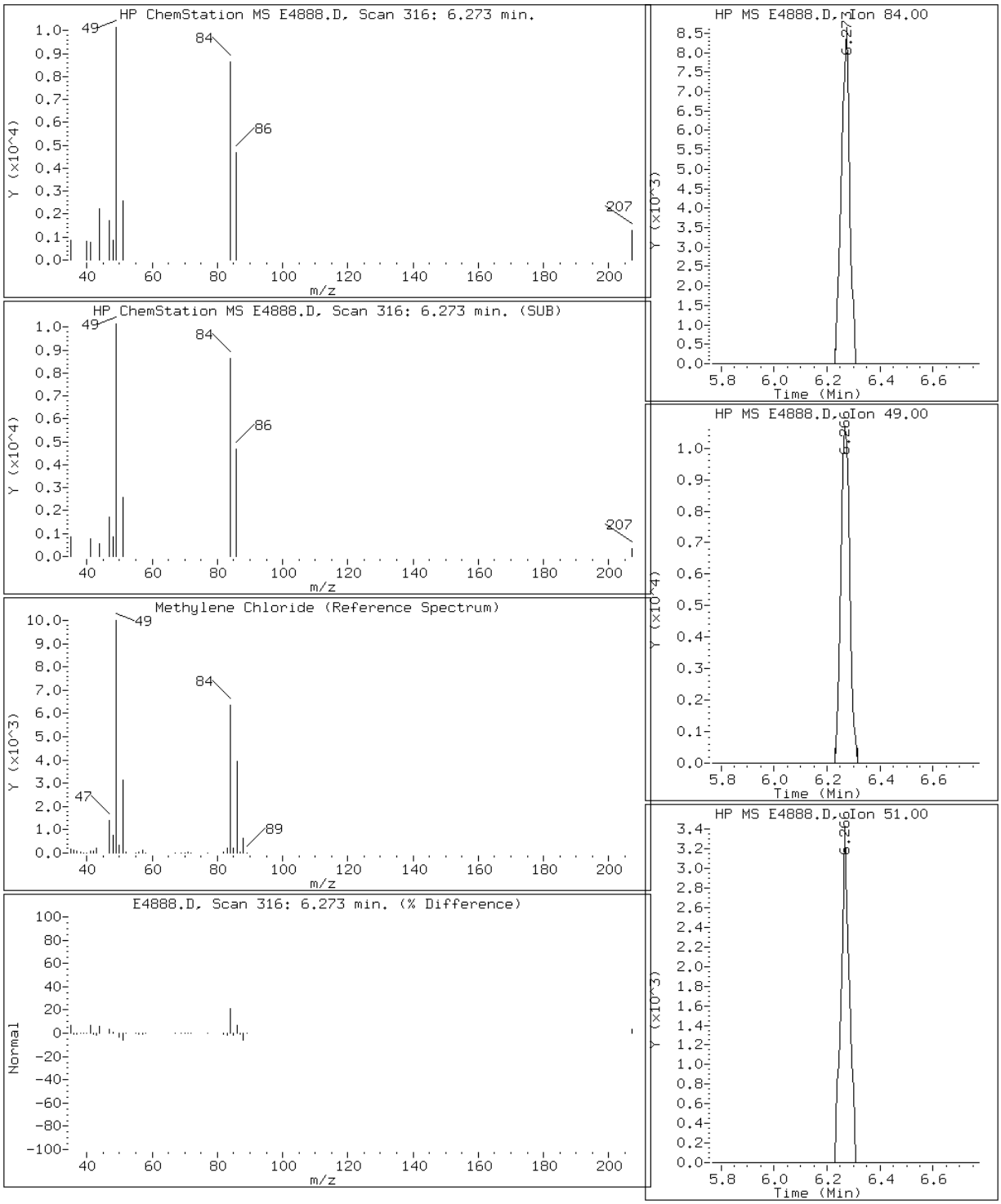
Data File: E4888.D

Date: 01-DEC-2011 02:03

Client ID: MW-5-111711 Instrument: E.i

Sample Info: 280-23016-a-5,,pH<2 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 280-23016-6

Matrix: Water | Lab File ID: ms2840.D

Analysis Method: 8260B | Date Collected: 11/17/2011 09:00

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 19:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	3.7	J	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 280-23016-6

Matrix: Water | Lab File ID: ms2840.D

Analysis Method: 8260B | Date Collected: 11/17/2011 09:00

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 19:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 280-23016-6

Matrix: Water Lab File ID: ms2840.D

Analysis Method: 8260B Date Collected: 11/17/2011 09:00

Sample wt/vol: 20(mL) Date Analyzed: 11/28/2011 19:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 97860 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		78-120
1868-53-7	Dibromofluoromethane (Surr)	96		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		70-127
2037-26-5	Toluene-d8 (Surr)	103		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\ms2840.D
Lab Smp Id: 280-23016-A-6 Client Smp ID: TRIP BLANK
Inj Date : 28-NOV-2011 19:52
Operator : SEIFERTJ Inst ID: GCMS1.i
Smp Info : 280-23016-a-6,,PH<2
Misc Info : 280-23016-A-6
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\8260B-H2O.m
Meth Date : 28-Nov-2011 23:49 seifertj Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41 Cal File: ms1801.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 69 Fluorobenzene	96	8.340	8.339	(1.000)	1343106	12.5000		
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	276493	12.5000		
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	353636	12.5000		(Q)
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	512460	9.58328	9.58328	
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	378918	9.03168	9.03168	
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	2594406	10.3344	10.3344	
$ 106 4-Bromofluorobenzene (Surr)	95	11.496	11.482	(0.918)	630626	9.80243	9.80242	
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M 2 Xylene (total)	106	Compound Not Detected.						
5 dichlorodifluoromethane	85	Compound Not Detected.						
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
7 Chloromethane	50	Compound Not Detected.						
8 Vinyl Chloride	62	Compound Not Detected.						
9 Ethylene Oxide	43	Compound Not Detected.						
10 Bromomethane	94	Compound Not Detected.						
11 Chloroethane	64	Compound Not Detected.						
12 Dichlorofluoromethane	67	Compound Not Detected.						
14 Trichlorofluoromethane	101	Compound Not Detected.						
13 Ethanol	45	Compound Not Detected.						
15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.						
17 Ethyl Ether	59	Compound Not Detected.						
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
18 Propylene Oxide	58	Compound Not Detected.					
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	6.091	6.077	(0.730)	15244	3.72685	3.72685
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
27 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
28 Methyl Acetate	43	Compound Not Detected.					
31 Carbon Disulfide	76	Compound Not Detected.					
29 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
33 Methylene Chloride	84	Compound Not Detected.					
34 Acrylonitrile	53	Compound Not Detected.					
35 Methyl t-butyl ether	73	Compound Not Detected.					
36 trans-1,2-Dichloroethene	96	Compound Not Detected.					
40 Hexane	57	Compound Not Detected.					
42 Vinyl acetate	43	Compound Not Detected.					
43 Isopropyl ether	87	Compound Not Detected.					
44 1,1-Dichloroethane	63	Compound Not Detected.					
46 Chloroprene	53	Compound Not Detected.					
48 ETBE	59	Compound Not Detected.					
50 2-Butanone	43	Compound Not Detected.					
49 Ethyl Acetate	43	Compound Not Detected.					
52 cis-1,2-Dichloroethene	96	Compound Not Detected.					
51 Propionitrile	54	Compound Not Detected.					
53 2,2-Dichloropropane	77	Compound Not Detected.					
54 Methacrylonitrile	41	Compound Not Detected.					
55 Bromochloromethane	128	Compound Not Detected.					
56 Chloroform	83	Compound Not Detected.					
57 Tetrahydrofuran	42	Compound Not Detected.					
60 1,1,1-Trichloroethane	97	Compound Not Detected.					
59 Isobutanol	41	Compound Not Detected.					
61 Cyclohexane	56	Compound Not Detected.					
62 1,1-Dichloropropene	75	Compound Not Detected.					
63 Carbon Tetrachloride	117	Compound Not Detected.					
65 1,2-Dichloroethane	62	Compound Not Detected.					
67 Benzene	78	Compound Not Detected.					
66 TAME	73	Compound Not Detected.					
68 n-Butanol	56	Compound Not Detected.					
71 Trichloroethene	130	Compound Not Detected.					
72 2-Pentanone	43	Compound Not Detected.					
73 Methyl Methacrylate	100	Compound Not Detected.					
74 1,2-Dichloropropane	63	Compound Not Detected.					
75 Methyl Cyclohexane	55	Compound Not Detected.					
76 1,4-Dioxane	88	Compound Not Detected.					
77 Dibromomethane	93	Compound Not Detected.					
78 Bromodichloromethane	83	Compound Not Detected.					
79 2-nitropropane	41	Compound Not Detected.					
80 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
81 cis-1,3-Dichloropropene	75	Compound Not Detected.					
82 4-Methyl-2-pentanone	43	Compound Not Detected.					
84 Toluene	91	Compound Not Detected.					
86 trans-1,3-Dichloropropene	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
85	Ethyl methacrylate	69	Compound Not Detected.					
87	1,1,2-Trichloroethane	97	Compound Not Detected.					
88	2-Hexanone	43	Compound Not Detected.					
89	1,3-Dichloropropane	76	Compound Not Detected.					
90	Tetrachloroethene	164	Compound Not Detected.					
91	Dibromochloromethane	129	Compound Not Detected.					
92	Tetrahydrothiophene	60	Compound Not Detected.					
93	1,2-Dibromoethane	107	Compound Not Detected.					
94	1-Chlorohexane	91	Compound Not Detected.					
96	Chlorobenzene	112	Compound Not Detected.					
97	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
98	Ethylbenzene	106	Compound Not Detected.					
99	m and p-Xylene	106	Compound Not Detected.					
101	o-Xylene	106	Compound Not Detected.					
100	Styrene	104	Compound Not Detected.					
102	Bromoform	173	Compound Not Detected.					
103	isopropyl benzene	105	Compound Not Detected.					
104	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
105	Cyclohexanone	55	Compound Not Detected.					
107	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
108	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
109	1,2,3-Trichloropropane	110	Compound Not Detected.					
111	Bromobenzene	156	Compound Not Detected.					
110	n-Propylbenzene	120	Compound Not Detected.					
113	2-Chlorotoluene	126	Compound Not Detected.					
112	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
114	4-Chlorotoluene	126	Compound Not Detected.					
115	tert-Butylbenzene	119	Compound Not Detected.					
116	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
118	sec-Butylbenzene	134	Compound Not Detected.					
119	4-Isopropyltoluene	119	Compound Not Detected.					
120	1,3-Dichlorobenzene	146	Compound Not Detected.					
122	1,4-dichlorobenzene	146	Compound Not Detected.					
123	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124	n-Butylbenzene	91	Compound Not Detected.					
126	1,2-Dichlorobenzene	146	Compound Not Detected.					
127	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
129	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
130	Hexachlorobutadiene	225	Compound Not Detected.					
131	Naphthalene	128	Compound Not Detected.					
132	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
144	Dichloroacetonitrile tic	74	Compound Not Detected.					
145	2,3-Dichloro-1-propene tic	75	Compound Not Detected.					

QC Flag Legend

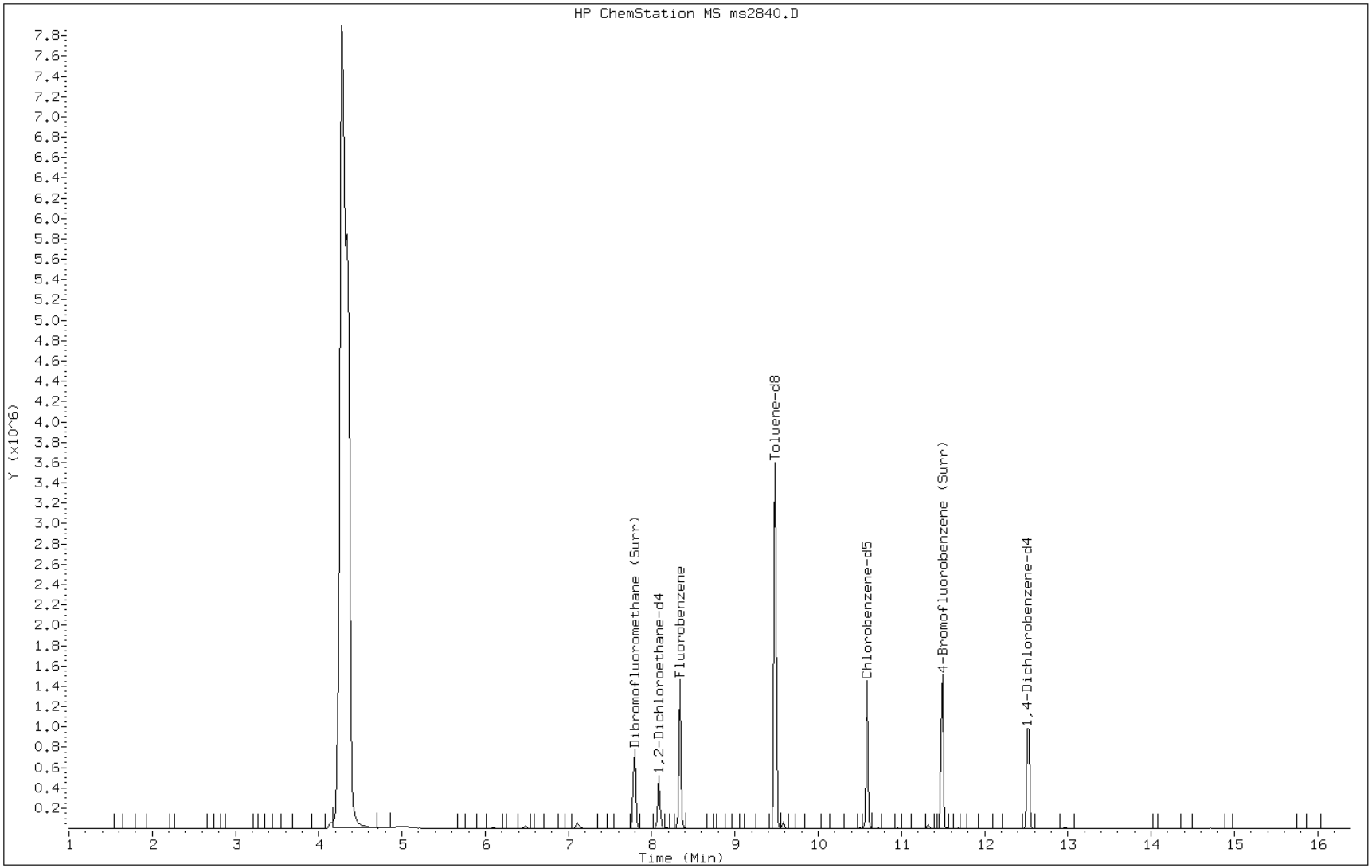
Q - Qualifier signal failed the ratio test.

Data File: ms2840.D

Date: 28-NOV-2011 19:52

Client ID: TRIP BLANK Instrument: GCMS1.i

Sample Info: 280-23016-a-6,,PH<2 Operator: SEIFERTJ



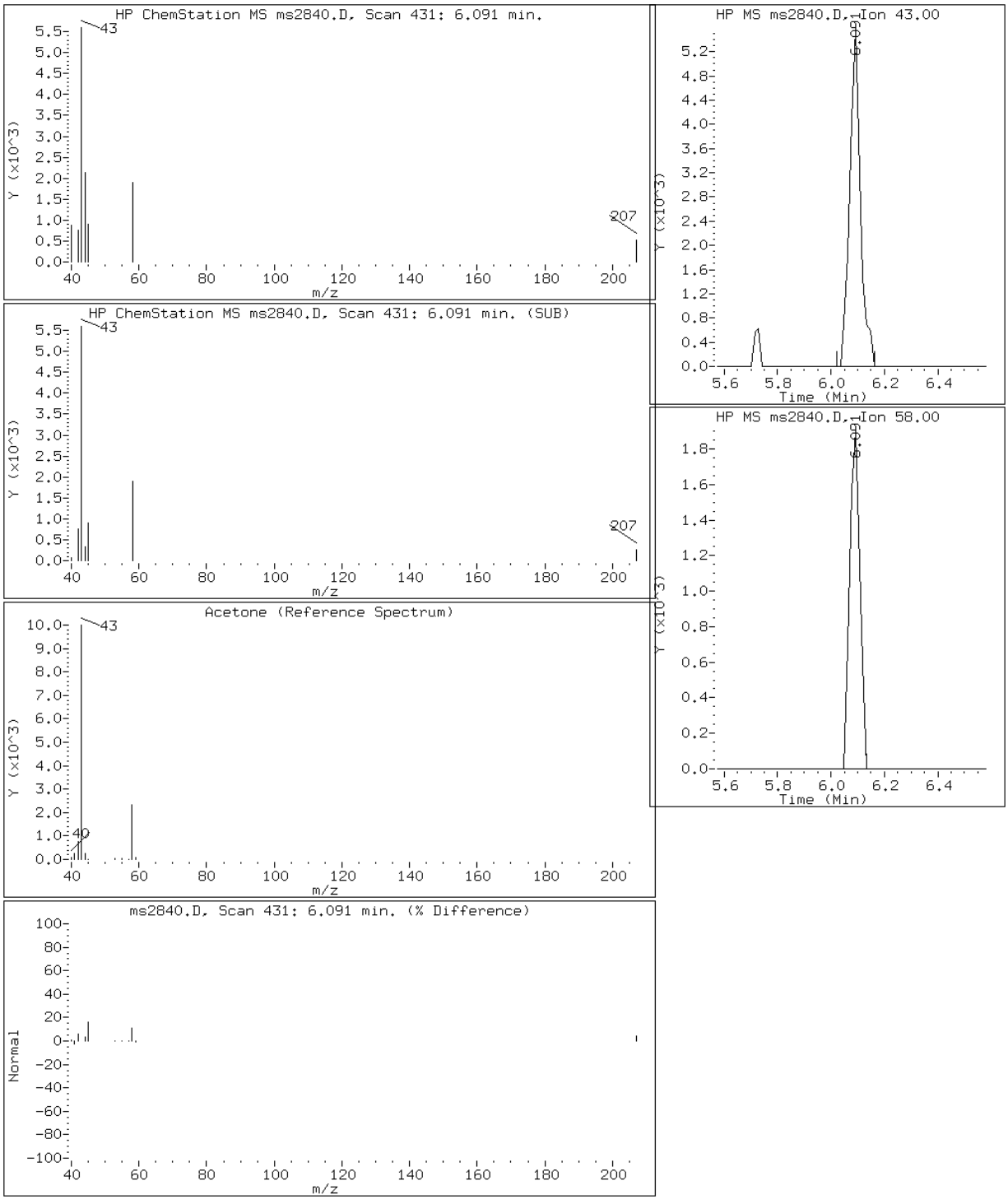
Data File: ms2840.D

Date: 28-NOV-2011 19:52

Client ID: TRIP BLANK Instrument: GCMS1.i

Sample Info: 280-23016-a-6,,PH<2 Operator: SEIFERTJ

20 Acetone



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 18:52 Calibration End Date: 11/01/2011 20:49 Calibration ID: 7694

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-94522/2	E3675.D
Level 2	IC 280-94522/3	E3676.D
Level 3	IC 280-94522/4	E3677.D
Level 4	IC 280-94522/5	E3678.D
Level 5	IC 280-94522/6	E3679.D
Level 6	IC 280-94522/7	E3680.D
Level 7	IC 280-94522/8	E3681.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethene, Total	0.2571 0.2893	0.2759 0.2955	0.2697	0.2750	0.2780	Ave		0.2772				4.5		15.0			
Xylenes, Total	1.8824 2.5551	2.0511 2.5829	2.1939	2.2741	2.3258	Ave		2.2665				11.2		15.0			
Dichlorodifluoromethane	0.2577	0.2664 0.2152	0.2472	0.2607	0.2878	Ave		0.2559				9.4		15.0			
Chloromethane	0.3787	0.4152 0.3423	0.4239	0.4164	0.4079	Ave		0.3974			0.1000	7.9		15.0			
Vinyl chloride	0.5592 0.4771	0.5546 0.4234	0.4971	0.5214	0.5116	Ave		0.5063				9.3		30.0			
Bromomethane	0.3369	0.3723 0.2788	0.3543	0.3539	0.3404	Ave		0.3394				9.5		15.0			
Chloroethane	0.2859	0.3334 0.2529	0.3058	0.3105	0.3036	Ave		0.2987				9.1		15.0			
Trichlorofluoromethane	0.7091	0.8434 0.6689	0.7490	0.7770	0.7697	Ave		0.7529				8.0		15.0			
Ethanol	0.0010	0.0021 0.0010	0.0018	0.0013	0.0013	Lin	-9.274	0.0009							0.9979		
Acrolein	0.0125	0.0117 0.0130	0.0119	0.0132	0.0131	Ave		0.0126				5.1		15.0			
Acetone	0.0202	0.0421 0.0189	0.0312	0.0238	0.0211	Lin2	-0.390	0.0191							0.9993		0.9900
1,1-Dichloroethene	0.2754 0.2823	0.2419 0.2595	0.2439	0.2506	0.2534	Ave		0.2581				6.0		30.0			
Iodomethane	0.3655	0.3643 0.4188	0.3462	0.3452	0.3517	Ave		0.3653				7.6		15.0			
Acetonitrile	0.0095	0.0089	0.0102	0.0098	0.0094	Ave		0.0096				4.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 18:52 Calibration End Date: 11/01/2011 20:49 Calibration ID: 7694

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-butyl alcohol (2-methyl-2-propanol)	0.0051	0.0054	0.0042	0.0049	0.0050	Ave		0.0049				9.1		15.0			
Methylene Chloride	0.2511	0.2473	0.4212	0.2901	0.2741	Lin2	-0.121	0.2364							0.9973		0.9900
Acrylonitrile	0.0220 0.0252	0.0237 0.0260	0.0224	0.0248	0.0253	Ave		0.0242				6.3		15.0			
trans-1,2-Dichloroethene	0.2575 0.2906	0.2887 0.2979	0.2759	0.2787	0.2836	Ave		0.2818				4.6		15.0			
Isopropyl ether	0.1366 0.1952	0.1477 +++++	0.1662	0.1772	0.1830	Ave		0.1676				13.2		15.0			
1,1-Dichloroethane	0.5046 0.4775	0.4684 0.4759	0.4614	0.4556	0.4622	Ave		0.4722			0.1000	3.5		15.0			
Chloroprene	0.2970 0.4412	0.3309 0.4434	0.3452	0.3846	0.4059	Ave		0.3783				14.9		15.0			
2-Butanone (MEK)	0.0235	0.0242 0.0247	0.0203	0.0233	0.0241	Ave		0.0234				6.7		15.0			
cis-1,2-Dichloroethene	0.2567 0.2880	0.2631 0.2930	0.2635	0.2713	0.2724	Ave		0.2726				4.9		15.0			
Propionitrile	0.0092	0.0088 0.0095	0.0085	0.0084	0.0092	Ave		0.0089				4.7		15.0			
2,2-Dichloropropane	0.4375	0.3981 0.4379	0.3902	0.3951	0.4089	Ave		0.4113				5.2		15.0			
Methacrylonitrile	0.0438	0.0350 0.0436	0.0361	0.0408	0.0425	Ave		0.0403				9.6		15.0			
Chlorobromomethane	0.0955	0.0879 0.0953	0.0954	0.0951	0.0908	Ave		0.0933				3.4		15.0			
Chloroform	0.4548 0.4586	0.4292 0.4586	0.4298	0.4379	0.4423	Ave		0.4445				2.9		30.0			
Isobutyl alcohol	0.0017	0.0018	0.0013	0.0018	0.0020	Ave		0.0017				14.8		15.0			
1,1,1-Trichloroethane	0.4617 0.4918	0.4558 0.4905	0.4418	0.4519	0.4692	Ave		0.4661				4.1		15.0			
1,1-Dichloropropene	0.3333 0.4021	0.3347 0.4083	0.3213	0.3519	0.3810	Ave		0.3618				9.7		15.0			
Carbon tetrachloride	0.3809 0.4294	0.3830 0.4252	0.3789	0.4097	0.4252	Ave		0.4046				5.7		15.0			
1,2-Dichloroethane	0.2194 0.1887	0.2097 0.1845	0.1984	0.1970	0.1930	Ave		0.1987				6.1		15.0			
Benzene	1.0074 1.0749	1.0311 1.0369	1.0493	1.0593	1.0578	Ave		1.0452				2.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 18:52 Calibration End Date: 11/01/2011 20:49 Calibration ID: 7694

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butanol	0.0022	0.0023	0.0039	0.0033	0.0026	Lin1	-2.886	0.0022							0.9971		0.9900
Trichloroethene	0.2832 0.2710	0.2652 0.2735	0.2464	0.2510	0.2537	Ave		0.2634				5.1		15.0			
1,2-Dichloropropane	0.1876 0.2092	0.2052 0.2075	0.2028	0.2053	0.2029	Ave		0.2029				3.5		30.0			
1,4-Dioxane	0.0008	0.0009	0.0006	0.0007	0.0008	Lin2	2.7169	0.0009							0.9988		0.9900
Dibromomethane	0.0763	0.0776 0.0766	0.0824	0.0759	0.0791	Ave		0.0780				3.1		15.0			
Dichlorobromomethane	0.2258 0.2453	0.2417 0.2456	0.2319	0.2396	0.2434	Ave		0.2391				3.1		15.0			
cis-1,3-Dichloropropene	0.2369 0.2736	0.2121 0.2797	0.2281	0.2326	0.2418	Ave		0.2435				10.1		15.0			
4-Methyl-2-pentanone (MIBK)	0.0551	0.0429 0.0545	0.0432	0.0475	0.0533	Ave		0.0494				11.4		15.0			
Toluene	1.1733 1.1559	1.1130 1.0899	1.1436	1.0943	1.1280	Ave		1.1283				2.8		30.0			
trans-1,3-Dichloropropene	0.2093	0.1699 0.2062	0.1823	0.1749	0.1918	Ave		0.1891				8.6		15.0			
1,1,2-Trichloroethane	0.1154 0.1057	0.1096 0.1042	0.1071	0.1037	0.1052	Ave		0.1073				3.8		15.0			
2-Hexanone	0.1635	0.1252 0.1697	0.1229	0.1388	0.1498	Ave		0.1450				13.4		15.0			
1,3-Dichloropropane	0.9712 1.0069	0.9376 1.0135	0.9765	0.9930	0.9734	Ave		0.9817				2.6		15.0			
Tetrachloroethene	0.9402 1.1754	1.1342 1.2110	1.1256	1.1459	1.1284	Ave		1.1229				7.7		15.0			
Chlorodibromomethane	0.6300 0.6224	0.5361 0.6400	0.5711	0.5828	0.5845	Ave		0.5953				6.2		15.0			
1,2-Dibromoethane	0.4477	0.4546 0.4593	0.4011	0.4356	0.4367	Ave		0.4392				4.8		15.0			
1-Chlorohexane	1.2011 1.9176	1.2154 1.9850	1.3535	1.5543	1.6801	Lin1	0.0212	1.9379							0.9958		0.9900
Chlorobenzene	3.6606 3.2180	3.2428 3.1644	3.2261	3.1034	3.0565	Ave		3.2388			0.3000	6.1		15.0			
Ethylbenzene	1.7428 2.1065	1.8016 2.1678	1.9380	1.8511	1.9173	Ave		1.9322				8.1		30.0			
1,1,1,2-Tetrachloroethane	1.0784 1.0703	0.9727 1.1376	0.9382	0.9841	0.9735	Ave		1.0221				7.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 18:52 Calibration End Date: 11/01/2011 20:49 Calibration ID: 7694

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
m-Xylene & p-Xylene	2.0144 2.5749	2.1841 2.5698	2.3039	2.3556	2.3629	Ave		2.3380				8.6		15.0			
Styrene	2.0807 3.7199	2.3391 3.8179	2.5996	3.1300	3.2086	Lin1	0.0218	3.7402							0.9963		0.9900
o-Xylene	1.6183 2.5156	1.7852 2.6089	1.9737	2.1111	2.2516	Lin1	0.0180	2.5490							0.9971		0.9900
Bromoform	 0.3274	0.2991 0.3381	0.3094	0.3186	0.3055	Ave		0.3164			0.1000	4.6		15.0			
Isopropylbenzene	2.8698 3.9168	2.9048 3.7896	3.2483	3.4798	3.7127	Ave		3.4174				12.4		15.0			
Cyclohexanone	 0.0107	 0.0114	0.0071	0.0093	0.0095	Lin2	2.3292	0.0110							0.9974		0.9900
1,1,2,2-Tetrachloroethane	0.4148 0.3433	0.3390 0.3433	0.3710	0.3642	0.3594	Ave		0.3621			0.3000	7.2		15.0			
1,2,3-Trichloropropane	 0.1008	0.1014 0.0987	0.0912	0.0999	0.1028	Ave		0.0991				4.2		15.0			
N-Propylbenzene	1.0501 1.2337	1.0178 1.2721	1.0513	1.0662	1.1708	Ave		1.1231				9.0		15.0			
Bromobenzene	0.7476 0.7930	0.7560 0.8025	0.8014	0.7605	0.7770	Ave		0.7769				2.9		15.0			
1,3,5-Trimethylbenzene	2.5158 3.5443	2.6762 3.4900	2.9920	3.0998	3.3345	Ave		3.0932				12.8		15.0			
2-Chlorotoluene	0.7157 0.9796	0.8562 0.9630	0.9318	0.9103	0.9369	Ave		0.8991				10.0		15.0			
4-Chlorotoluene	0.7399 0.9223	0.8243 0.9196	0.8565	0.8613	0.8741	Ave		0.8569				7.3		15.0			
tert-Butylbenzene	2.5729 3.5157	2.5176 3.6057	2.9065	2.9950	3.2982	Ave		3.0588				14.1		15.0			
1,2,4-Trimethylbenzene	2.2714 3.5728	2.7153 3.4497	3.0494	3.2306	3.3653	Ave		3.0935				14.9		15.0			
sec-Butylbenzene	0.6883 1.0535	0.7316 1.0904	0.8474	0.9094	0.9784	Lin1	0.0171	1.0694							0.9980		0.9900
4-Isopropyltoluene	2.6165 4.1689	2.9661 3.9772	3.3513	3.5693	3.8978	Lin2	0.0088	3.8362							0.9930		0.9900
1,3-Dichlorobenzene	1.7425 1.6885	1.5837 1.6652	1.6219	1.6248	1.6318	Ave		1.6512				3.2		15.0			
1,4-Dichlorobenzene	1.9527 1.6052	1.7280 1.5781	1.6299	1.5952	1.5668	Ave		1.6651				8.3		15.0			
n-Butylbenzene	3.1150 4.1294	3.1761 3.9439	3.4155	3.5301	3.8483	Ave		3.5940				10.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 18:52 Calibration End Date: 11/01/2011 20:49 Calibration ID: 7694

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.3954 1.3486	1.3056 1.3279	1.3456	1.3068	1.3243	Ave		1.3363				2.3		15.0			
1,2-Dibromo-3-Chloropropane	0.0506	0.0538	0.0416	0.0448	0.0454	Ave		0.0472				10.3		15.0			
1,2,4-Trichlorobenzene	0.9964	0.8667 0.9968	0.8397	0.8157	0.8924	Ave		0.9013				8.7		15.0			
Hexachlorobutadiene	0.9275 0.8658	0.8796 0.8743	0.8496	0.7623	0.8090	Ave		0.8526				6.3		15.0			
Naphthalene	1.0300	0.8232 1.0840	0.8313	0.8251	0.9172	Ave		0.9184				12.4		15.0			
1,2,3-Trichlorobenzene	0.7590 0.7958	0.7248 0.7875	0.7401	0.6862	0.7574	Ave		0.7501				5.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 18:52 Calibration End Date: 11/01/2011 20:49 Calibration ID: 7694

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-94522/2	E3675.D
Level 2	IC 280-94522/3	E3676.D
Level 3	IC 280-94522/4	E3677.D
Level 4	IC 280-94522/5	E3678.D
Level 5	IC 280-94522/6	E3679.D
Level 6	IC 280-94522/7	E3680.D
Level 7	IC 280-94522/8	E3681.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethene, Total	FB	Ave	14535 2032536	52793 4546473	105209	272383	580117	0.600 60.0	2.00 120	4.00	10.0	20.0
Xylenes, Total	CBZ	Ave	33660 5707009	120785 12145084	276909	704525	1573063	0.900 90.0	3.00 180	6.00	15.0	30.0
Dichlorodifluoromethane	FB	Ave	 905443	25486 1656084	48216	129127	300288	 30.0	1.00 60.0	2.00	5.00	10.0
Chloromethane	FB	Ave	 1330546	39726 2633657	82685	206220	425573	 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	15809 1676056	53063 3257585	96959	258226	533732	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromomethane	FB	Ave	 1183367	35619 2145083	69118	175260	355171	 30.0	1.00 60.0	2.00	5.00	10.0
Chloroethane	FB	Ave	 1004256	31896 1946013	59657	153770	316699	 30.0	1.00 60.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	 2490941	80697 5146588	146097	384799	803074	 30.0	1.00 60.0	2.00	5.00	10.0
Ethanol	FB	Lin	 181907	9962 366524	17486	32633	67132	 1500	50.0 3000	100	250	500
Acrolein	FB	Ave	 439424	11240 1001959	23156	65268	136668	 300	10.0 600	20.0	50.0	100
Acetone	FB	Lin2	 284403	16105 582629	24321	47242	88184	 120	4.00 240	8.00	20.0	40.0
1,1-Dichloroethene	FB	Ave	7785 991837	23143 1996474	47584	124085	264324	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Iodomethane	FB	Ave	 1283969	34859 3222640	67525	170944	366975	 30.0	1.00 60.0	2.00	5.00	10.0
Acetonitrile	FB	Ave	 332263	 685088	19835	48431	98495	 300	 600	20.0	50.0	100
Tert-butyl alcohol (2-methyl-2-propanol)	FB	Ave	 355204	 827891	16296	48220	104253	 600	 1200	40.0	100	200

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 18:52 Calibration End Date: 11/01/2011 20:49 Calibration ID: 7694

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Lin2	882062	1902741	82150	143650	285971	30.0	60.0	2.00	5.00	10.0
Acrylonitrile	FB	Ave	6222 883585	22713 2000007	43668	122705	264015	3.00 300	10.0 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	7279 1020753	27623 2291753	53817	138010	295902	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	19312 3428368	70664 +++++	162129	438670	954445	1.50 150	5.00 +++++	10.0	25.0	50.0
1,1-Dichloroethane	FB	Ave	14265 1677558	44812 3661512	90006	225617	482242	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroprene	FB	Ave	8398 1550096	31657 3411679	67342	190451	423516	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	330818	9250 759846	15845	46121	100628	120	4.00 240	8.00	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	7256 1011783	25170 2254720	51392	134373	284215	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Propionitrile	FB	Ave	322142	8453 728996	16622	41608	96158	300	10.0 600	20.0	50.0	100
2,2-Dichloropropane	FB	Ave	1536942	38093 3369562	76119	195657	426609	30.0	1.00 60.0	2.00	5.00	10.0
Methacrylonitrile	FB	Ave	1538199	33449 3358289	70504	202163	443533	300	10.0 600	20.0	50.0	100
Chlorobromomethane	FB	Ave	335438	8412 733585	18616	47087	94743	30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	12859 1611073	41065 3528428	83842	216859	461443	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	119916	280004	5051	18271	40706	600	1200	40.0	100	200
1,1,1-Trichloroethane	FB	Ave	13054 1727831	43614 3774075	86177	223805	489474	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	9424 1412457	32023 3141261	62674	174250	397512	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	10770 1508346	36647 3271871	73907	202915	443603	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Ave	6202 663059	20062 1419806	38700	97557	201348	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Benzene	FB	Ave	28480 3776125	98650 7978144	204684	524562	1103561	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butanol	FB	Lin1	154769	349941	15226	32691	53538	600	1200	40.0	100	200
Trichloroethene	FB	Ave	8008 951864	25371 2104234	48067	124324	264732	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 18:52 Calibration End Date: 11/01/2011 20:49 Calibration ID: 7694

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	5305 734938	19637 1596318	39550	101644	211685	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dioxane	FB	Lin2	 148303	 339870	5727	17636	41871	 1500	 3000	100	250	500
Dibromomethane	FB	Ave	 268146	7421 589658	16078	37579	82489	 30.0	1.00 60.0	2.00	5.00	10.0
Dichlorobromomethane	FB	Ave	6385 861622	23129 1889443	45241	118644	253980	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	6699 961154	20291 2151758	44486	115174	252230	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	 774173	16410 1677528	33706	94072	222612	 120	4.00 240	8.00	20.0	40.0
Toluene	FB	Ave	33172 4060586	106485 8385537	223062	541916	1176836	0.300 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	 735216	16252 1586158	35555	86612	200131	 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloroethane	FB	Ave	3262 371397	10487 801592	20892	51345	109803	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Hexanone	CBZ	Ave	 487018	9833 1064193	20690	57320	135114	 120	4.00 240	8.00	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	5789 749631	18404 1588517	41084	102547	219450	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	5604 875073	22264 1898067	47357	118334	254398	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chlorodibromomethane	CBZ	Ave	3755 463390	10523 1003146	24029	60183	131771	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	 333316	8924 719877	16876	44987	98455	 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Lin1	7159 1427644	23857 3111325	56948	160513	378770	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	21819 2395871	63653 4959792	135730	320484	689077	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	10388 1568332	35364 3397747	81538	191156	432254	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	6428 796879	19094 1783105	39475	101627	219478	0.300 30.0	1.00 60.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	24014 3834091	85744 8055873	193868	486512	1065437	0.600 60.0	2.00 120	4.00	10.0	20.0
Styrene	CBZ	Lin1	12402 2769497	45915 5984174	109375	323230	723372	0.300 30.0	1.00 60.0	2.00	5.00	10.0
o-Xylene	CBZ	Lin1	9646 1872918	35041 4089211	83041	218013	507626	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 18:52 Calibration End Date: 11/01/2011 20:49 Calibration ID: 7694

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	243738	5871 529960	13018	32906	68884	30.0	1.00 60.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	24700 4646019	85832 9501180	203047	555960	1265873	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexanone	CBZ	Lin2	319953	712034	11989	38537	85235	1200	2400	80.0	200	400
1,1,2,2-Tetrachloroethane	DCB	Ave	3570 407160	10016 860794	23188	58191	122527	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	119603	2995 247499	5699	15954	35051	30.0	1.00 60.0	2.00	5.00	10.0
N-Propylbenzene	DCB	Ave	9038 1463341	30073 3189444	65715	170346	399199	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	6435 940622	22338 2012081	50096	121510	264920	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	21653 4204084	79078 8750097	187027	495241	1136901	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	6160 1161984	25300 2414455	58243	145431	319437	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	6368 1093946	24358 2305604	53539	137608	298042	0.300 30.0	1.00 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	22145 4170262	74392 9040083	181679	478499	1124539	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	19550 4237891	80232 8649080	190611	516137	1147417	0.300 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Lin1	5924 1249606	21618 2733918	52969	145285	333587	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Lin2	22520 4945037	87642 9971567	209482	570259	1328970	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	14998 2002873	46797 4174904	101380	259581	556372	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	16807 1904031	51060 3956518	101880	254858	534216	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	26811 4898203	93849 9888013	213493	563993	1312095	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	12010 1599671	38578 3329348	84108	208776	451508	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	60036	134779	2598	7156	15485	30.0	60.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	1181919	25610 2499162	52490	130314	304278	30.0	1.00 60.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	7983 1026973	25992 2191998	53109	121785	275825	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 18:52 Calibration End Date: 11/01/2011 20:49 Calibration ID: 7694

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	DCB	Ave	1221723	24323 2717882	51960	131821	312716	30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	6533 943914	21418 1974450	46262	109635	258224	0.300 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3675.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 18:52
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,M 0.3
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 17:35 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:13 Cal File: E3694.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	8.167	8.167	(1.000)	1177998	12.5000	
* 85	Chlorobenzene-d5	119	10.477	10.477	(1.000)	248357	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	12.429	12.429	(1.000)	358624	12.5000	
M 1	1,2-Dichloroethene (total)	96				14535	0.60000	0.556538(a)
M 2	Xylene (total)	106				33660	0.90000	0.932864(a)
M 3	1,3-Dichloropropene (total)	75				12388	0.60000	0.611215(a)
M 4	Trihalomethanes (total)	83				22999	1.20000	0.907909(a)
5	dichlorodifluoromethane	85	4.313	4.313	(0.528)	6045	0.30000	0.250710(aQ)
7	Chloromethane	50	4.523	4.523	(0.554)	15534	0.30000	0.414768(a)
8	Vinyl Chloride	62	4.690	4.690	(0.574)	15809	0.30000	0.331306(aQ)
10	Bromomethane	94	5.081	5.081	(0.622)	14577	0.30000	0.455697(aQ)
14	Trichlorofluoromethane	101	5.417	5.417	(0.663)	22615	0.30000	0.318748(a)
13	Ethanol	45	Compound Not Detected.					
18	Acrolein	56	5.752	5.752	(0.704)	3698	3.00000	3.12136(a)
19	Acetone	43	5.863	5.863	(0.718)	24157	1.20000	8.56408(a)
22	1,1-Dichloroethene	96	5.891	5.891	(0.721)	7785	0.30000	0.320023(a)
24	Iodomethane	142	6.086	6.086	(0.745)	10549	0.30000	0.306428(a)
30	Acrylonitrile	53	6.408	6.408	(0.785)	6222	3.00000	2.72881(a)
32	trans-1,2-Dichloroethene	96	6.487	6.487	(0.794)	7279	0.30000	0.274063(a)
35	Isopropyl ether	87	6.766	6.766	(0.828)	19312	1.50000	1.22236(a)
36	1,1-Dichloroethane	63	6.823	6.823	(0.835)	14265	0.30000	0.320542(a)
37	Chloroprene	53	6.894	6.894	(0.844)	8398	0.30000	0.235541(a)
40	2-Butanone	43	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
43 cis-1,2-Dichloroethene	96	7.266	7.266	(0.890)	7256	0.30000	0.282475(a)
44 2,2-Dichloropropane	77	7.295	7.295	(0.893)	9779	0.30000	0.252289(a)
45 Methacrylonitrile	41	7.395	7.395	(0.905)	9845	5.00000	2.59145(a)
46 Bromochloromethane	128	7.466	7.466	(0.914)	2359	0.30000	0.268160(a)
47 Chloroform	83	7.473	7.473	(0.915)	12859	0.30000	0.306998(a)
51 1,1,1-Trichloroethane	97	7.709	7.709	(0.944)	13054	0.30000	0.297176(a)
50 Isobutanol	41	Compound Not Detected.					
53 1,1-Dichloropropene	75	7.802	7.802	(0.955)	9424	0.30000	0.276401(a)
54 Carbon Tetrachloride	117	7.845	7.845	(0.961)	10770	0.30000	0.282438(a)
56 1,2-Dichloroethane	62	7.967	7.967	(0.975)	6202	0.30000	0.331249(aQ)
58 Benzene	78	7.995	7.995	(0.979)	28480	0.30000	0.289130(a)
60 n-Butanol	56	8.167	8.167	(1.000)	11678	10.0000	20.7530(aQ)
61 Trichloroethene	95	8.446	8.446	(1.034)	8008	0.30000	0.322558(a)
64 1,2-Dichloropropane	63	8.632	8.632	(1.057)	5305	0.30000	0.277406(a)
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	8.732	8.732	(1.069)	2320	0.30000	0.315679(aQ)
68 Bromodichloromethane	83	8.803	8.803	(1.078)	6385	0.30000	0.283421(aQ)
71 cis-1,3-Dichloropropene	75	9.111	9.111	(1.116)	6699	0.30000	0.291896(a)
72 4-Methyl-2-pentanone	43	9.161	9.161	(1.122)	9616	1.20000	2.06475(a)
74 Toluene	91	9.397	9.397	(1.151)	33172	0.30000	0.311979(a)
77 1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	3262	0.30000	0.322664(a)
78 2-Hexanone	43	9.776	9.776	(0.933)	7484	1.20000	2.59763(a)
79 1,3-Dichloropropane	76	9.812	9.812	(0.937)	5789	0.30000	0.296789(a)
80 Tetrachloroethene	164	9.833	9.833	(0.939)	5604	0.30000	0.251172(a)
81 Dibromochloromethane	129	10.012	10.012	(0.956)	3755	0.30000	0.317490(aQ)
83 1,2-Dibromoethane	107	10.155	10.155	(0.969)	2320	0.30000	0.265877(a)
84 1-Chlorohexane	91	10.369	10.369	(0.990)	7159	0.30000	0.450577(aQ)
86 Chlorobenzene	112	10.491	10.491	(1.001)	21819	0.30000	0.339064(aQ)
87 1,1,1,2-Tetrachloroethane	131	10.527	10.527	(1.005)	6428	0.30000	0.316517(a)
88 Ethylbenzene	106	10.527	10.527	(1.005)	10388	0.30000	0.270597(a)
89 m and p-Xylene	106	10.612	10.612	(1.013)	24014	0.60000	0.516965(a)
90 o-Xylene	106	10.948	10.948	(1.045)	9646	0.30000	0.415899(a)
91 Styrene	104	10.948	10.948	(1.045)	12402	0.30000	0.439526(a)
92 Bromoform	173	Compound Not Detected.					
93 isopropyl benzene	105	11.220	11.220	(0.903)	24700	0.30000	0.251924(a)
95 Cyclohexanone	55	11.377	11.377	(1.086)	7789	20.0000	64.8389(a)
97 1,1,2,2-Tetrachloroethane	83	11.442	11.442	(0.921)	3570	0.30000	0.343619(aQ)
99 1,2,3-Trichloropropane	110	Compound Not Detected.					
100 Bromobenzene	156	11.578	11.578	(0.932)	6435	0.30000	0.288714(a)
101 n-Propylbenzene	120	11.563	11.563	(0.930)	9038	0.30000	0.280484(a)
102 2-Chlorotoluene	126	11.699	11.699	(0.941)	6160	0.30000	0.238813(a)
103 1,3,5-Trimethylbenzene	105	11.678	11.678	(0.940)	21653	0.30000	0.243993(a)
104 4-Chlorotoluene	126	11.785	11.785	(0.948)	6368	0.30000	0.259038(a)
105 tert-Butylbenzene	119	12.000	12.000	(0.965)	22145	0.30000	0.252344(a)
106 1,2,4-Trimethylbenzene	105	12.035	12.035	(0.968)	19550	0.30000	0.220276(a)
107 sec-Butylbenzene	134	12.193	12.193	(0.981)	5924	0.30000	0.407158(a)
108 4-Isopropyltoluene	119	12.293	12.293	(0.989)	22520	0.30000	0.314073(a)
109 1,3-Dichlorobenzene	146	12.378	12.378	(0.996)	14998	0.30000	0.316594(a)
111 1,4-dichlorobenzene	146	12.457	12.457	(1.002)	16807	0.30000	0.351814(aQ)
113 n-Butylbenzene	91	12.693	12.693	(1.021)	26811	0.30000	0.260016(a)
114 1,2-Dichlorobenzene	146	12.858	12.858	(1.035)	12010	0.30000	0.313264(a)
115 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
116 1,2,4-Trichlorobenzene	180	14.738	14.738	(1.186)	8078	0.30000	0.312398(a)
117 Hexachlorobutadiene	225	14.888	14.888	(1.198)	7983	0.30000	0.326360(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
118 Naphthalene	128	15.153	15.153	(1.219)	11107	0.30000	0.421522(aM)
119 1,2,3-Trichlorobenzene	180	15.510	15.510	(1.248)	6533	0.30000	0.303565(a)

QC Flag Legend

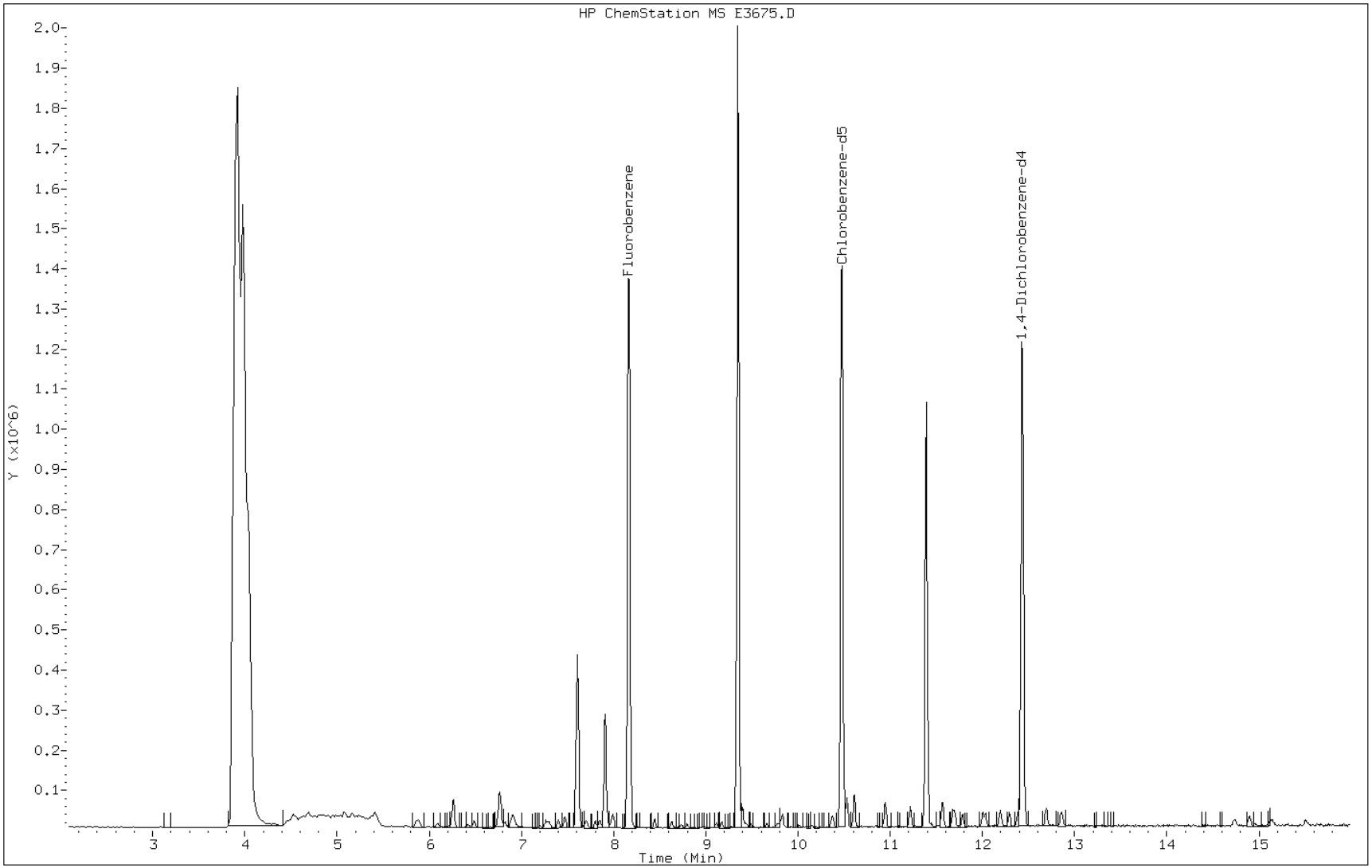
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: E3675.D

Date: 01-NOV-2011 18:52

Client ID: Instrument: E.i

Sample Info: IC,,M 0.3 Operator: TINKHAMS



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3676.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 19:11
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,M 1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 18:03 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:34 Cal File: E3692.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	8.166	8.166	(1.000)	1195961	12.5000	
*	85 Chlorobenzene-d5	119	10.468	10.468	(1.000)	245363	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.428	12.428	(1.000)	369353	12.5000	
M	1 1,2-Dichloroethene (total)	96				52793	2.00000	1.98957
M	2 Xylene (total)	106				120785	3.00000	2.79416
M	3 1,3-Dichloropropene (total)	75				36543	2.00000	1.76937
M	4 Trihalomethanes (total)	83				80588	4.00000	3.82292
	5 dichlorodifluoromethane	85	4.300	4.300	(0.527)	25486	1.00000	1.04113(a)
	7 Chloromethane	50	4.523	4.523	(0.554)	39726	1.00000	1.04478(a)
	8 Vinyl Chloride	62	4.691	4.691	(0.574)	53063	1.00000	1.09533
	10 Bromomethane	94	5.082	5.082	(0.622)	35619	1.00000	1.09678(a)
	11 Chloroethane	64	5.166	5.166	(0.633)	31896	1.00000	1.11616(a)
	14 Trichlorofluoromethane	101	5.417	5.417	(0.663)	80697	1.00000	1.12030(a)
	18 Acrolein	56	5.753	5.753	(0.704)	11240	10.0000	9.34480(a)
	19 Acetone	43	5.864	5.864	(0.718)	16105	4.00000	3.94963(a)
	22 1,1-Dichloroethene	96	5.892	5.892	(0.722)	23143	1.00000	0.937064(a)
	24 Iodomethane	142	6.085	6.085	(0.745)	34859	1.00000	0.997379(a)
	25 Acetonitrile	41	6.100	6.100	(0.747)	10083	10.0000	11.0349(a)
	28 tert-Butyl alcohol	59	6.200	6.200	(0.759)	7440	20.0000	15.8842(aM)
	29 Methylene Chloride	84	6.257	6.257	(0.766)	56233	1.00000	0.976731(a)
	30 Acrylonitrile	53	6.422	6.422	(0.786)	22713	10.0000	9.81172(a)
	32 trans-1,2-Dichloroethene	96	6.493	6.493	(0.795)	27623	1.00000	1.02442

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
35 Isopropyl ether	87	6.765	6.765	(0.828)	70664	5.00000	4.40553(a)
36 1,1-Dichloroethane	63	6.822	6.822	(0.835)	44812	1.00000	0.991827(a)
37 Chloroprene	53	6.893	6.893	(0.844)	31657	1.00000	0.874556(a)
40 2-Butanone	43	7.201	7.201	(0.882)	9250	4.00000	4.14029(a)
43 cis-1,2-Dichloroethene	96	7.265	7.265	(0.890)	25170	1.00000	0.965148(a)
42 Propionitrile	54	7.272	7.272	(0.891)	8453	10.0000	9.88620(a)
44 2,2-Dichloropropane	77	7.294	7.294	(0.893)	38093	1.00000	0.968003(a)
45 Methacrylonitrile	41	7.401	7.401	(0.906)	33449	10.0000	8.67236(a)
46 Bromochloromethane	128	7.465	7.465	(0.914)	8412	1.00000	0.941872(a)
47 Chloroform	83	7.480	7.480	(0.916)	41065	1.00000	0.965666(a)
51 1,1,1-Trichloroethane	97	7.701	7.701	(0.943)	43614	1.00000	0.977965(a)
53 1,1-Dichloropropene	75	7.809	7.809	(0.956)	32023	1.00000	0.925112(a)
54 Carbon Tetrachloride	117	7.844	7.844	(0.961)	36647	1.00000	0.946614(a)
56 1,2-Dichloroethane	62	7.966	7.966	(0.975)	20062	1.00000	1.05542
58 Benzene	78	7.995	7.995	(0.979)	98650	1.00000	0.986457(a)
60 n-Butanol	56	8.166	8.166	(1.000)	11084	20.0000	17.0524(a)
61 Trichloroethene	95	8.445	8.445	(1.034)	25371	1.00000	1.00658
64 1,2-Dichloropropane	63	8.638	8.638	(1.058)	19637	1.00000	1.01142
66 1,4-Dioxane	88	Compound Not Detected.					
67 Dibromomethane	93	8.731	8.731	(1.069)	7421	1.00000	0.994599(a)
68 Bromodichloromethane	83	8.795	8.795	(1.077)	23129	1.00000	1.01124
71 cis-1,3-Dichloropropene	75	9.110	9.110	(1.116)	20291	1.00000	0.870862(a)
72 4-Methyl-2-pentanone	43	9.167	9.167	(1.123)	16410	4.00000	3.47064(a)
74 Toluene	91	9.396	9.396	(1.151)	106485	1.00000	0.986436(a)
76 trans-1,3-Dichloropropene	75	9.489	9.489	(1.162)	16252	1.00000	0.898510(a)
77 1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	10487	1.00000	1.02175
78 2-Hexanone	43	9.775	9.775	(0.934)	9833	4.00000	3.45459(a)
79 1,3-Dichloropropane	76	9.804	9.804	(0.936)	18404	1.00000	0.955045(a)
80 Tetrachloroethene	164	9.832	9.832	(0.939)	22264	1.00000	1.01005
81 Dibromochloromethane	129	10.011	10.011	(0.956)	10523	1.00000	0.900591(a)
83 1,2-Dibromoethane	107	10.147	10.147	(0.969)	8924	1.00000	1.03519
84 1-Chlorohexane	91	10.361	10.361	(0.990)	23857	1.00000	0.891815(a)
86 Chlorobenzene	112	10.497	10.497	(1.003)	63653	1.00000	1.00123
87 1,1,1,2-Tetrachloroethane	131	10.533	10.533	(1.006)	19094	1.00000	0.951669(a)
88 Ethylbenzene	106	10.526	10.526	(1.005)	35364	1.00000	0.932439(a)
89 m and p-Xylene	106	10.604	10.604	(1.013)	85744	2.00000	1.86839(a)
90 o-Xylene	106	10.948	10.948	(1.046)	35041	1.00000	0.925771
91 Styrene	104	10.948	10.948	(1.046)	45915	1.00000	0.898041(a)
92 Bromoform	173	11.169	11.169	(1.067)	5871	1.00000	0.945416(a)
93 isopropyl benzene	105	11.219	11.219	(0.903)	85832	1.00000	0.850002(a)
95 Cyclohexanone	55	11.362	11.362	(1.085)	6032	40.0000	57.1181(a)
97 1,1,2,2-Tetrachloroethane	83	11.434	11.434	(0.920)	10016	1.00000	0.936055(a)
99 1,2,3-Trichloropropane	110	11.520	11.520	(0.927)	2995	1.00000	1.02256
100 Bromobenzene	156	11.570	11.570	(0.931)	22338	1.00000	0.973108(a)
101 n-Propylbenzene	120	11.555	11.555	(0.930)	30073	1.00000	0.906172(a)
102 2-Chlorotoluene	126	11.698	11.698	(0.941)	25300	1.00000	0.952347(a)
103 1,3,5-Trimethylbenzene	105	11.670	11.670	(0.939)	79078	1.00000	0.865192(a)
104 4-Chlorotoluene	126	11.777	11.777	(0.948)	24358	1.00000	0.962054(a)
105 tert-Butylbenzene	119	11.999	11.999	(0.965)	74392	1.00000	0.823080(a)
106 1,2,4-Trimethylbenzene	105	12.027	12.027	(0.968)	80232	1.00000	0.877741(a)
107 sec-Butylbenzene	134	12.192	12.192	(0.981)	21618	1.00000	0.898232(a)
108 4-Isopropyltoluene	119	12.285	12.285	(0.988)	87642	1.00000	0.882643(a)
109 1,3-Dichlorobenzene	146	12.378	12.378	(0.996)	46797	1.00000	0.959148(a)
111 1,4-dichlorobenzene	146	12.449	12.449	(1.002)	51060	1.00000	1.03777

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
113 n-Butylbenzene	91	12.692	12.692	(1.021)	93849	1.00000	0.883718(a)
114 1,2-Dichlorobenzene	146	12.849	12.849	(1.034)	38578	1.00000	0.977025(a)
115 1,2-Dibromo-3-chloropropane	157	13.672	13.672	(1.100)	1042	1.00000	0.746682(a)
116 1,2,4-Trichlorobenzene	180	14.730	14.730	(1.185)	25610	1.00000	0.961639(a)
117 Hexachlorobutadiene	225	14.894	14.894	(1.198)	25992	1.00000	1.03174
118 Naphthalene	128	15.138	15.138	(1.218)	24323	1.00000	0.896252(aM)
119 1,2,3-Trichlorobenzene	180	15.502	15.502	(1.247)	21418	1.00000	0.966309(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: E3676.D

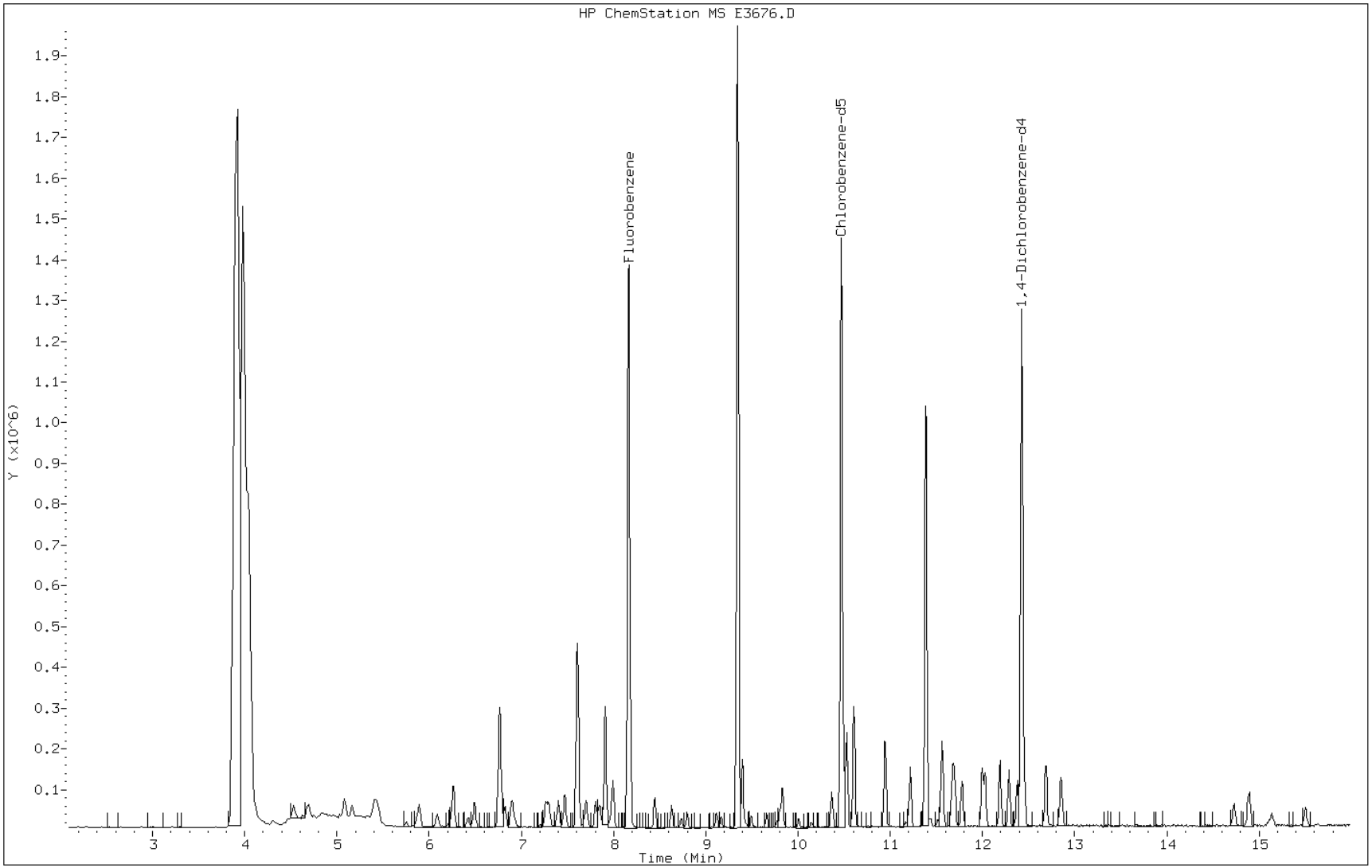
Date: 01-NOV-2011 19:11

Client ID:

Instrument: E.i

Sample Info: IC,,M 1.0

Operator: TINKHAMS



Manual Integration Report

Data File: E3676.D
Inj. Date and Time: 01-NOV-2011 19:11
Instrument ID: E.i
Client ID:
Compound: 118 Naphthalene
CAS #: 91-20-3
Report Date: 11/03/2011

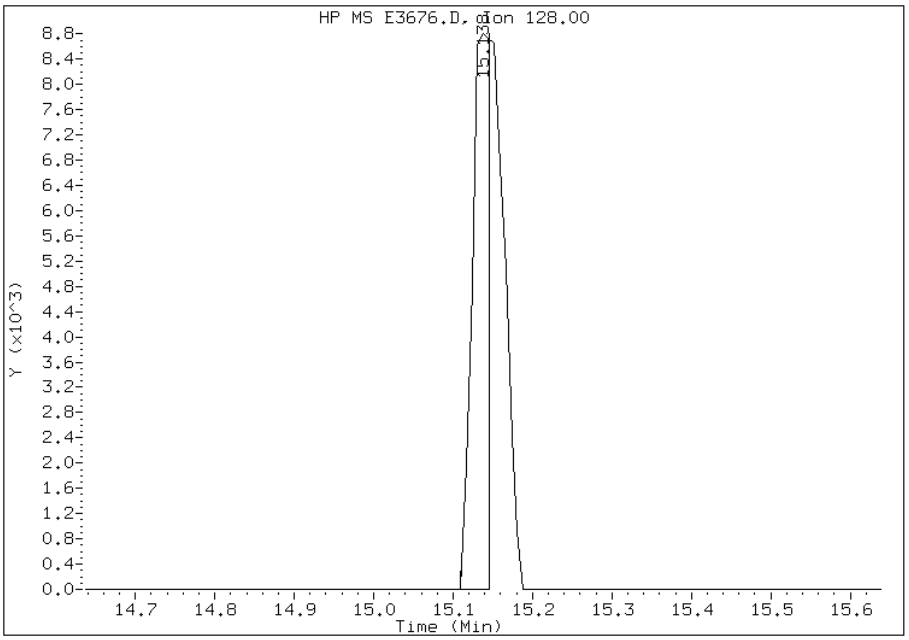
Processing Integration Results

RT: 15.14

Response: 14109

Amount: 1

Conc: 1



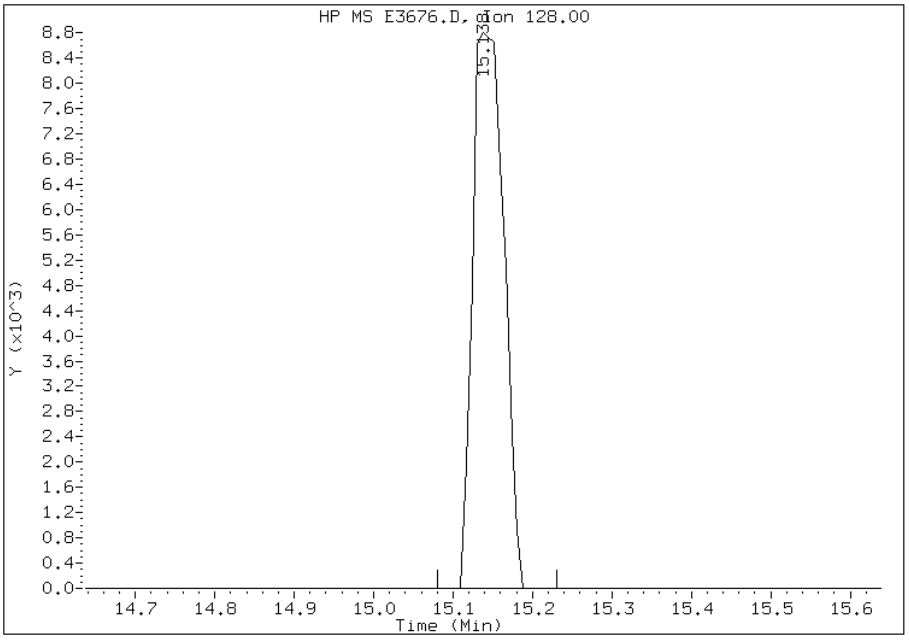
Manual Integration Results

RT: 15.14

Response: 24323

Amount: 1

Conc: 1



Manually Integrated By: tinkhams
Manual Integration Reason: Mis-Integrated

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3677.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 19:31
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,M 2.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 17:35 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:34 Cal File: E3692.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	8.166	8.166	(1.000)	1219114	12.5000	
* 85	Chlorobenzene-d5	119	10.468	10.468	(1.000)	262957	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	12.428	12.428	(1.000)	390675	12.5000	
M 1	1,2-Dichloroethene (total)	96				105209	4.00000	3.89115
M 2	Xylene (total)	106				276909	6.00000	5.71586
M 3	1,3-Dichloropropene (total)	75				80041	4.00000	3.80138
M 4	Trihalomethanes (total)	83				166130	8.00000	7.74953
5	dichlorodifluoromethane	85	4.314	4.314	(0.528)	48216	2.00000	1.93226(a)
7	Chloromethane	50	4.538	4.538	(0.556)	82685	2.00000	2.13328
8	Vinyl Chloride	62	4.691	4.691	(0.575)	96959	2.00000	1.96342
10	Bromomethane	94	5.082	5.082	(0.622)	69118	2.00000	2.08785
11	Chloroethane	64	5.166	5.166	(0.633)	59657	2.00000	2.04797
14	Trichlorofluoromethane	101	5.404	5.404	(0.662)	146097	2.00000	1.98972(a)
18	Acrolein	56	5.753	5.753	(0.704)	23156	20.0000	18.8860(a)
19	Acetone	43	5.864	5.864	(0.718)	24321	8.00000	8.19897(a)
22	1,1-Dichloroethene	96	5.892	5.892	(0.722)	47584	2.00000	1.89009
24	Iodomethane	142	6.085	6.085	(0.745)	67525	2.00000	1.89532
25	Acetonitrile	41	6.107	6.107	(0.748)	19835	20.0000	21.2952(aQ)
28	tert-Butyl alcohol	59	6.228	6.228	(0.763)	16296	40.0000	34.1308(aQ)
29	Methylene Chloride	84	6.257	6.257	(0.766)	82150	2.00000	2.05355(a)
30	Acrylonitrile	53	6.421	6.421	(0.786)	43668	20.0000	18.5058(a)
32	trans-1,2-Dichloroethene	96	6.493	6.493	(0.795)	53817	2.00000	1.95794

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
35 Isopropyl ether	87	6.765	6.765	(0.828)	162129	10.0000	9.91594(a)
36 1,1-Dichloroethane	63	6.822	6.822	(0.835)	90006	2.00000	1.95427
37 Chloroprene	53	6.893	6.893	(0.844)	67342	2.00000	1.82506(Q)
40 2-Butanone	43	7.208	7.208	(0.883)	15845	8.00000	6.95751
43 cis-1,2-Dichloroethene	96	7.265	7.265	(0.890)	51392	2.00000	1.93321
42 Propionitrile	54	7.272	7.272	(0.891)	16622	20.0000	19.0710(aQ)
44 2,2-Dichloropropane	77	7.294	7.294	(0.893)	76119	2.00000	1.89757(a)
45 Methacrylonitrile	41	7.401	7.401	(0.906)	70504	20.0000	17.9325
46 Bromochloromethane	128	7.465	7.465	(0.914)	18616	2.00000	2.04480
47 Chloroform	83	7.472	7.472	(0.915)	83842	2.00000	1.93415
51 1,1,1-Trichloroethane	97	7.701	7.701	(0.943)	86177	2.00000	1.89566(Q)
53 1,1-Dichloropropene	75	7.801	7.801	(0.955)	62674	2.00000	1.77620
54 Carbon Tetrachloride	117	7.851	7.851	(0.961)	73907	2.00000	1.87280
56 1,2-Dichloroethane	62	7.973	7.973	(0.976)	38700	2.00000	1.99726
58 Benzene	78	7.994	7.994	(0.979)	204684	2.00000	2.00788
60 n-Butanol	56	8.166	8.166	(1.000)	15226	40.0000	35.5193(aQ)
61 Trichloroethene	95	8.445	8.445	(1.034)	48067	2.00000	1.87081
64 1,2-Dichloropropane	63	8.631	8.631	(1.057)	39550	2.00000	1.99838
66 1,4-Dioxane	88	8.681	8.681	(1.063)	5727	100.000	101.724(a)
67 Dibromomethane	93	8.731	8.731	(1.069)	16078	2.00000	2.11393
68 Bromodichloromethane	83	8.795	8.795	(1.077)	45241	2.00000	1.94045
71 cis-1,3-Dichloropropene	75	9.117	9.117	(1.116)	44486	2.00000	1.87302
72 4-Methyl-2-pentanone	43	9.167	9.167	(1.123)	33706	8.00000	6.99329
74 Toluene	91	9.396	9.396	(1.151)	223062	2.00000	2.02712
76 trans-1,3-Dichloropropene	75	9.496	9.496	(1.163)	35555	2.00000	1.92837(a)
77 1,1,2-Trichloroethane	97	9.660	9.660	(1.183)	20892	2.00000	1.99686
78 2-Hexanone	43	9.768	9.768	(0.933)	20690	8.00000	6.78258
79 1,3-Dichloropropane	76	9.803	9.803	(0.936)	41084	2.00000	1.98934
80 Tetrachloroethene	164	9.832	9.832	(0.939)	47357	2.00000	2.00470
81 Dibromochloromethane	129	10.004	10.004	(0.956)	24029	2.00000	1.91888
83 1,2-Dibromoethane	107	10.147	10.147	(0.969)	16876	2.00000	1.82665
84 1-Chlorohexane	91	10.368	10.368	(0.990)	56948	2.00000	1.66157
86 Chlorobenzene	112	10.497	10.497	(1.003)	135730	2.00000	1.99212
87 1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	39475	2.00000	1.83584
88 Ethylbenzene	106	10.526	10.526	(1.005)	81538	2.00000	2.00606
89 m and p-Xylene	106	10.604	10.604	(1.013)	193868	4.00000	3.94180
90 o-Xylene	106	10.947	10.947	(1.046)	83041	2.00000	1.77406
91 Styrene	104	10.940	10.940	(1.045)	109375	2.00000	1.66274
92 Bromoform	173	11.162	11.162	(1.066)	13018	2.00000	1.95605
93 isopropyl benzene	105	11.219	11.219	(0.903)	203047	2.00000	1.90105
95 Cyclohexanone	55	11.362	11.362	(1.085)	11989	80.0000	81.0488(a)
97 1,1,2,2-Tetrachloroethane	83	11.434	11.434	(0.920)	23188	2.00000	2.04878(Q)
99 1,2,3-Trichloropropane	110	11.512	11.512	(0.926)	5699	2.00000	1.83957
100 Bromobenzene	156	11.570	11.570	(0.931)	50096	2.00000	2.06322
101 n-Propylbenzene	120	11.562	11.562	(0.930)	65715	2.00000	1.87208
102 2-Chlorotoluene	126	11.698	11.698	(0.941)	58243	2.00000	2.07274
103 1,3,5-Trimethylbenzene	105	11.670	11.670	(0.939)	187027	2.00000	1.93458
104 4-Chlorotoluene	126	11.777	11.777	(0.948)	53539	2.00000	1.99919
105 tert-Butylbenzene	119	11.999	11.999	(0.965)	181679	2.00000	1.90040
106 1,2,4-Trimethylbenzene	105	12.027	12.027	(0.968)	190611	2.00000	1.97148
107 sec-Butylbenzene	134	12.192	12.192	(0.981)	52969	2.00000	1.79894
108 4-Isopropyltoluene	119	12.285	12.285	(0.988)	209482	2.00000	1.85667
109 1,3-Dichlorobenzene	146	12.377	12.377	(0.996)	101380	2.00000	1.96447
111 1,4-dichlorobenzene	146	12.449	12.449	(1.002)	101880	2.00000	1.95765

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
113 n-Butylbenzene	91	12.685	12.685	(1.021)	213493	2.00000	1.90061
114 1,2-Dichlorobenzene	146	12.849	12.849	(1.034)	84108	2.00000	2.01386
115 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	2598	2.00000	1.76008(aQ)
116 1,2,4-Trichlorobenzene	180	14.730	14.730	(1.185)	52490	2.00000	1.86340
117 Hexachlorobutadiene	225	14.887	14.887	(1.198)	53109	2.00000	1.99307
118 Naphthalene	128	15.137	15.137	(1.218)	51960	2.00000	1.81016
119 1,2,3-Trichlorobenzene	180	15.502	15.502	(1.247)	46262	2.00000	1.97327

QC Flag Legend

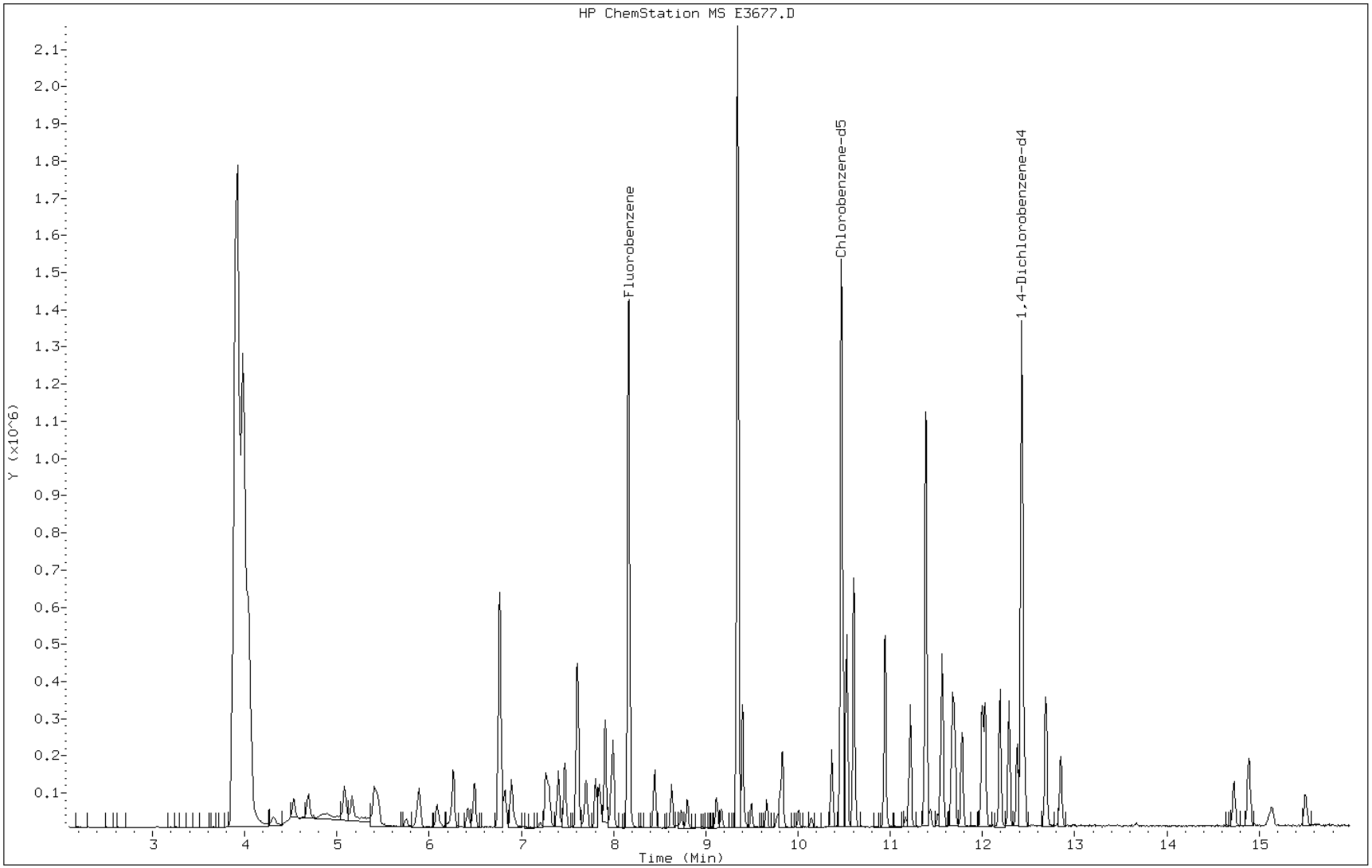
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E3677.D

Date: 01-NOV-2011 19:31

Client ID: Instrument: E.i

Sample Info: IC,,M 2.0 Operator: TINKHAMS



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3678.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 19:50
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,M 5.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 17:35 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:54 Cal File: E3693.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	8.160	8.160	(1.000)	1238046	12.5000	
* 85	Chlorobenzene-d5	119	10.470	10.470	(1.000)	258171	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	12.429	12.429	(1.000)	399416	12.5000	
M 1	1,2-Dichloroethene (total)	96				272383	10.0000	9.92162
M 2	Xylene (total)	106				704525	15.0000	14.4418
M 3	1,3-Dichloropropene (total)	75				201786	10.0000	9.40075
M 4	Trihalomethanes (total)	83				428592	20.0000	19.8684
5	dichlorodifluoromethane	85	4.300	4.300	(0.527)	129127	5.00000	5.09566
7	Chloromethane	50	4.538	4.538	(0.556)	206220	5.00000	5.23915
8	Vinyl Chloride	62	4.691	4.691	(0.575)	258226	5.00000	5.14912
10	Bromomethane	94	5.082	5.082	(0.623)	175260	5.00000	5.21313
11	Chloroethane	64	5.166	5.166	(0.633)	153770	5.00000	5.19806
14	Trichlorofluoromethane	101	5.404	5.404	(0.662)	384799	5.00000	5.16052
13	Ethanol	45	5.432	5.432	(0.666)	32633	250.000	238.409(aQ)
18	Acrolein	56	5.753	5.753	(0.705)	65268	50.0000	52.4185
19	Acetone	43	5.865	5.865	(0.719)	47242	20.0000	20.1330
22	1,1-Dichloroethene	96	5.892	5.892	(0.722)	124085	5.00000	4.85344
24	Iodomethane	142	6.087	6.087	(0.746)	170944	5.00000	4.72476
25	Acetonitrile	41	6.115	6.115	(0.749)	48431	50.0000	51.2013(Q)
28	tert-Butyl alcohol	59	6.215	6.215	(0.762)	48220	100.000	99.4490
29	Methylene Chloride	84	6.258	6.258	(0.767)	143650	5.00000	4.62558(a)
30	Acrylonitrile	53	6.423	6.423	(0.787)	122705	50.0000	51.2051

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
32 trans-1,2-Dichloroethene	96	6.487	6.487	(0.795)	138010	5.00000	4.94422
35 Isopropyl ether	87	6.766	6.766	(0.829)	438670	25.0000	26.4191
36 1,1-Dichloroethane	63	6.823	6.823	(0.836)	225617	5.00000	4.82385
37 Chloroprene	53	6.888	6.888	(0.844)	190451	5.00000	5.08255
40 2-Butanone	43	7.209	7.209	(0.883)	46121	20.0000	19.9420
43 cis-1,2-Dichloroethene	96	7.267	7.267	(0.890)	134373	5.00000	4.97740
42 Propionitrile	54	7.267	7.267	(0.890)	41608	50.0000	47.0084
44 2,2-Dichloropropane	77	7.295	7.295	(0.894)	195657	5.00000	4.80294(a)
45 Methacrylonitrile	41	7.402	7.402	(0.907)	202163	50.0000	50.6333
46 Bromochloromethane	128	7.467	7.467	(0.915)	47087	5.00000	5.09300
47 Chloroform	83	7.474	7.474	(0.916)	216859	5.00000	4.92621
51 1,1,1-Trichloroethane	97	7.703	7.703	(0.944)	223805	5.00000	4.84783
50 Isobutanol	41	7.674	7.674	(0.940)	18271	100.000	107.045(aQ)
53 1,1-Dichloropropene	75	7.803	7.803	(0.956)	174250	5.00000	4.86278
54 Carbon Tetrachloride	117	7.846	7.846	(0.961)	202915	5.00000	5.06324
56 1,2-Dichloroethane	62	7.967	7.967	(0.976)	97557	5.00000	4.95780
58 Benzene	78	7.989	7.989	(0.979)	524562	5.00000	5.06708
60 n-Butanol	56	8.175	8.175	(1.002)	32691	100.000	115.290(Q)
61 Trichloroethene	95	8.446	8.446	(1.035)	124324	5.00000	4.76482
64 1,2-Dichloropropane	63	8.625	8.625	(1.057)	101644	5.00000	5.05732
66 1,4-Dioxane	88	8.682	8.682	(1.064)	17636	250.000	239.441
67 Dibromomethane	93	8.732	8.732	(1.070)	37579	5.00000	4.86532
68 Bromodichloromethane	83	8.797	8.797	(1.078)	118644	5.00000	5.01100
71 cis-1,3-Dichloropropene	75	9.118	9.118	(1.117)	115174	5.00000	4.77508
72 4-Methyl-2-pentanone	43	9.168	9.168	(1.124)	94072	20.0000	19.2195
74 Toluene	91	9.397	9.397	(1.152)	541916	5.00000	4.84945
76 trans-1,3-Dichloropropene	75	9.490	9.490	(1.163)	86612	5.00000	4.62567
77 1,1,2-Trichloroethane	97	9.662	9.662	(1.184)	51345	5.00000	4.83251
78 2-Hexanone	43	9.776	9.776	(0.934)	57320	20.0000	19.1390
79 1,3-Dichloropropane	76	9.805	9.805	(0.936)	102547	5.00000	5.05750
80 Tetrachloroethene	164	9.826	9.826	(0.939)	118334	5.00000	5.10214
81 Dibromochloromethane	129	10.005	10.005	(0.956)	60183	5.00000	4.89512
83 1,2-Dibromoethane	107	10.141	10.141	(0.969)	44987	5.00000	4.95963
84 1-Chlorohexane	91	10.370	10.370	(0.990)	160513	5.00000	4.27498
86 Chlorobenzene	112	10.491	10.491	(1.002)	320484	5.00000	4.79096
87 1,1,1,2-Tetrachloroethane	131	10.527	10.527	(1.005)	101627	5.00000	4.81393
88 Ethylbenzene	106	10.527	10.527	(1.005)	191156	5.00000	4.79014
89 m and p-Xylene	106	10.606	10.606	(1.013)	486512	10.0000	10.0753
90 o-Xylene	106	10.942	10.942	(1.045)	218013	5.00000	4.36652
91 Styrene	104	10.942	10.942	(1.045)	323230	5.00000	4.45691
92 Bromoform	173	11.163	11.163	(1.066)	32906	5.00000	5.03602
93 isopropyl benzene	105	11.221	11.221	(0.903)	555960	5.00000	5.09132
95 Cyclohexanone	55	11.371	11.371	(1.086)	38537	200.000	199.143
97 1,1,2,2-Tetrachloroethane	83	11.435	11.435	(0.920)	58191	5.00000	5.02897
99 1,2,3-Trichloropropane	110	11.514	11.514	(0.926)	15954	5.00000	5.03707
100 Bromobenzene	156	11.571	11.571	(0.931)	121510	5.00000	4.89491
101 n-Propylbenzene	120	11.557	11.557	(0.930)	170346	5.00000	4.74659
102 2-Chlorotoluene	126	11.700	11.700	(0.941)	145431	5.00000	5.06230
103 1,3,5-Trimethylbenzene	105	11.671	11.671	(0.939)	495241	5.00000	5.01060
104 4-Chlorotoluene	126	11.778	11.778	(0.948)	137608	5.00000	5.02594
105 tert-Butylbenzene	119	12.000	12.000	(0.965)	478499	5.00000	4.89568
106 1,2,4-Trimethylbenzene	105	12.029	12.029	(0.968)	516137	5.00000	5.22156
107 sec-Butylbenzene	134	12.193	12.193	(0.981)	145285	5.00000	4.46596
108 4-Isopropyltoluene	119	12.286	12.286	(0.988)	570259	5.00000	4.76168

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	12.379	12.379	(0.996)	259581	5.00000	4.91990
111 1,4-dichlorobenzene	146	12.450	12.450	(1.002)	254858	5.00000	4.78999
113 n-Butylbenzene	91	12.686	12.686	(1.021)	563993	5.00000	4.91105
114 1,2-Dichlorobenzene	146	12.851	12.851	(1.034)	208776	5.00000	4.88948
115 1,2-Dibromo-3-chloropropane	157	13.673	13.673	(1.100)	7156	5.00000	4.74192
116 1,2,4-Trichlorobenzene	180	14.731	14.731	(1.185)	130314	5.00000	4.52491
117 Hexachlorobutadiene	225	14.889	14.889	(1.198)	121785	5.00000	4.47032
118 Naphthalene	128	15.146	15.146	(1.219)	131821	5.00000	4.49181
119 1,2,3-Trichlorobenzene	180	15.504	15.504	(1.247)	109635	5.00000	4.57407

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E3678.D

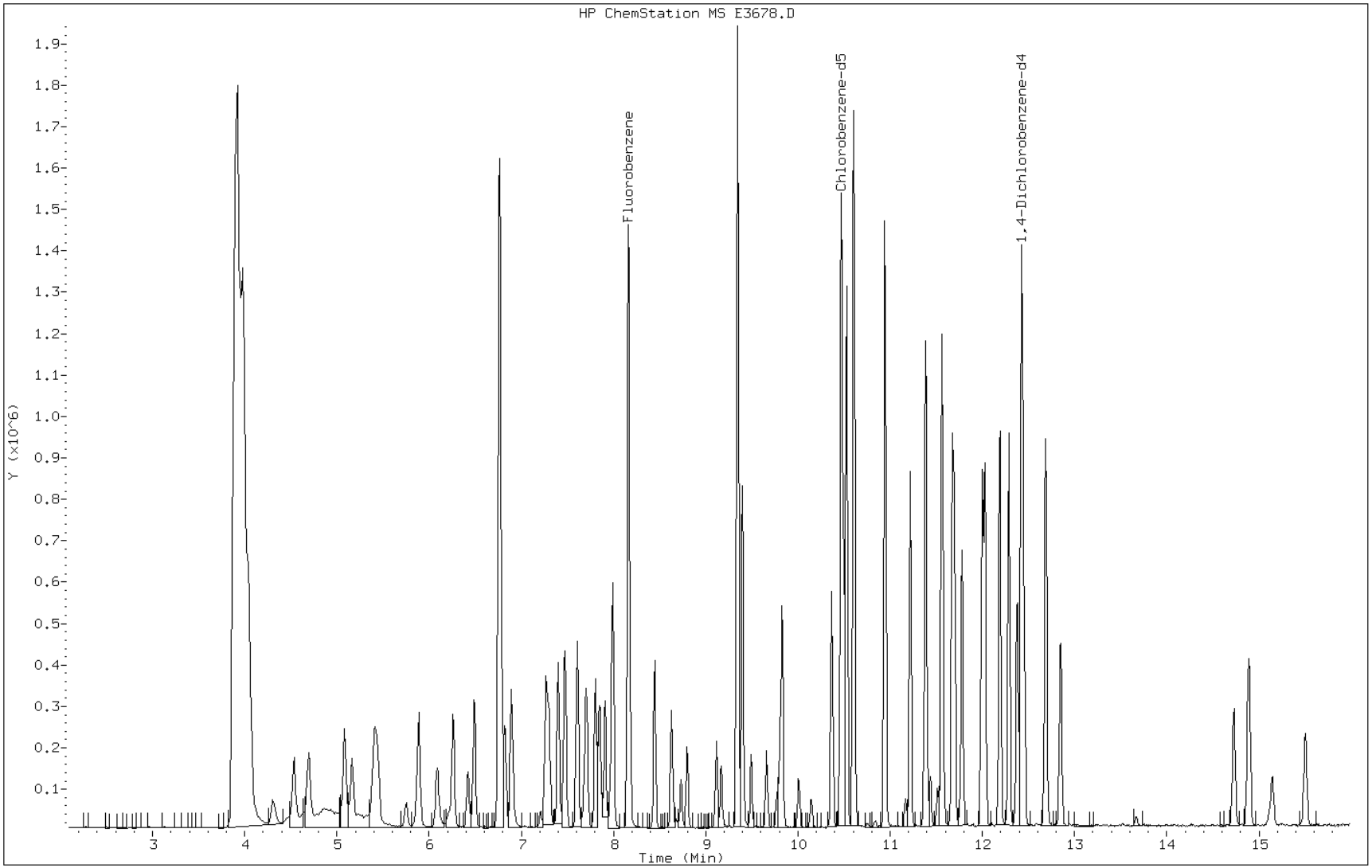
Date: 01-NOV-2011 19:50

Client ID:

Instrument: E.i

Sample Info: IC,,M 5.0

Operator: TINKHAMS



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3679.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 20:10
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,M 10.0
Misc Info :
Comment :
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Meth Date : 02-Nov-2011 17:35 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:13 Cal File: E3694.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59	Fluorobenzene	96	8.159	8.159	(1.000)	1304134	12.5000	
* 85	Chlorobenzene-d5	119	10.469	10.469	(1.000)	281810	12.5000	
* 110	1,4-Dichlorobenzene-d4	152	12.428	12.428	(1.000)	426192	12.5000	
M 1	1,2-Dichloroethene (total)	96				580117	20.0000	20.0578
M 2	Xylene (total)	106				1573063	30.0000	29.2724
M 3	1,3-Dichloropropene (total)	75				452361	20.0000	20.0742
M 4	Trihalomethanes (total)	83				916078	40.0000	39.6112
5	dichlorodifluoromethane	85	4.303	4.303	(0.527)	300288	10.0000	11.2496
7	Chloromethane	50	4.541	4.541	(0.556)	425573	10.0000	10.2640
8	Vinyl Chloride	62	4.694	4.694	(0.575)	533732	10.0000	10.1035
10	Bromomethane	94	5.085	5.085	(0.623)	355171	10.0000	10.0292
11	Chloroethane	64	5.155	5.155	(0.632)	316699	10.0000	10.1632
14	Trichlorofluoromethane	101	5.407	5.407	(0.663)	803074	10.0000	10.2242
13	Ethanol	45	5.448	5.448	(0.668)	67132	500.000	576.064
18	Acrolein	56	5.756	5.756	(0.705)	136668	100.000	104.199
19	Acetone	43	5.853	5.853	(0.717)	88184	40.0000	39.4413
22	1,1-Dichloroethene	96	5.881	5.881	(0.721)	264324	10.0000	9.81479
24	Iodomethane	142	6.086	6.086	(0.746)	366975	10.0000	9.62890
25	Acetonitrile	41	6.107	6.107	(0.749)	98495	100.000	98.8522
28	tert-Butyl alcohol	59	6.215	6.215	(0.762)	104253	200.000	204.116
29	Methylene Chloride	84	6.258	6.258	(0.767)	285971	10.0000	10.0848
30	Acrylonitrile	53	6.422	6.422	(0.787)	264015	100.000	104.591

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
32	trans-1,2-Dichloroethene	96	6.486	6.486	(0.795)	295902	10.0000	10.0635
35	Isopropyl ether	87	6.765	6.765	(0.829)	954445	50.0000	54.5690
36	1,1-Dichloroethane	63	6.822	6.822	(0.836)	482242	10.0000	9.78816
37	Chloroprene	53	6.894	6.894	(0.845)	423516	10.0000	10.7296
40	2-Butanone	43	7.209	7.209	(0.883)	100628	40.0000	41.3050
43	cis-1,2-Dichloroethene	96	7.266	7.266	(0.890)	284215	10.0000	9.99430
42	Propionitrile	54	7.266	7.266	(0.890)	96158	100.000	103.133
44	2,2-Dichloropropane	77	7.294	7.294	(0.894)	426609	10.0000	9.94160
45	Methacrylonitrile	41	7.394	7.394	(0.906)	443533	100.000	105.457
46	Bromochloromethane	128	7.466	7.466	(0.915)	94743	10.0000	9.72825
47	Chloroform	83	7.473	7.473	(0.916)	461443	10.0000	9.95103
51	1,1,1-Trichloroethane	97	7.702	7.702	(0.944)	489474	10.0000	10.0652
50	Isobutanol	41	7.673	7.673	(0.940)	40706	200.000	226.400
53	1,1-Dichloropropene	75	7.802	7.802	(0.956)	397512	10.0000	10.5312
54	Carbon Tetrachloride	117	7.845	7.845	(0.961)	443603	10.0000	10.5081
56	1,2-Dichloroethane	62	7.966	7.966	(0.976)	201348	10.0000	9.71388
58	Benzene	78	7.995	7.995	(0.980)	1103561	10.0000	10.1198
60	n-Butanol	56	8.174	8.174	(1.002)	53538	200.000	199.252
61	Trichloroethene	95	8.445	8.445	(1.035)	264732	10.0000	9.63191
64	1,2-Dichloropropane	63	8.631	8.631	(1.058)	211685	10.0000	9.99869
66	1,4-Dioxane	88	8.681	8.681	(1.064)	41871	500.000	497.084
67	Dibromomethane	93	8.731	8.731	(1.070)	82489	10.0000	10.1386
68	Bromodichloromethane	83	8.796	8.796	(1.078)	253980	10.0000	10.1834
71	cis-1,3-Dichloropropene	75	9.118	9.118	(1.117)	252230	10.0000	9.92745
72	4-Methyl-2-pentanone	43	9.168	9.168	(1.124)	222612	40.0000	43.1762
74	Toluene	91	9.396	9.396	(1.152)	1176836	10.0000	9.99750
76	trans-1,3-Dichloropropene	75	9.489	9.489	(1.163)	200131	10.0000	10.1467
77	1,1,2-Trichloroethane	97	9.661	9.661	(1.184)	109803	10.0000	9.81078
78	2-Hexanone	43	9.768	9.768	(0.933)	135114	40.0000	41.3298
79	1,3-Dichloropropane	76	9.804	9.804	(0.936)	219450	10.0000	9.91517
80	Tetrachloroethene	164	9.833	9.833	(0.939)	254398	10.0000	10.0486
81	Dibromochloromethane	129	10.011	10.011	(0.956)	131771	10.0000	9.81885
83	1,2-Dibromoethane	107	10.140	10.140	(0.969)	98455	10.0000	9.94377
84	1-Chlorohexane	91	10.362	10.362	(0.990)	378770	10.0000	8.93422
86	Chlorobenzene	112	10.498	10.498	(1.003)	689077	10.0000	9.43703
87	1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	219478	10.0000	9.52429
88	Ethylbenzene	106	10.526	10.526	(1.005)	432254	10.0000	9.92318
89	m and p-Xylene	106	10.605	10.605	(1.013)	1065437	20.0000	20.2136
90	o-Xylene	106	10.941	10.941	(1.045)	507626	10.0000	9.05880
91	Styrene	104	10.941	10.941	(1.045)	723372	10.0000	8.85132
92	Bromoform	173	11.170	11.170	(1.067)	68884	10.0000	9.65789
93	isopropyl benzene	105	11.220	11.220	(0.903)	1265873	10.0000	10.8642
95	Cyclohexanone	55	11.370	11.370	(1.086)	85235	400.000	373.632
97	1,1,2,2-Tetrachloroethane	83	11.434	11.434	(0.920)	122527	10.0000	9.92374
99	1,2,3-Trichloropropane	110	11.520	11.520	(0.927)	35051	10.0000	10.3712
100	Bromobenzene	156	11.570	11.570	(0.931)	264920	10.0000	10.0016
101	n-Propylbenzene	120	11.556	11.556	(0.930)	399199	10.0000	10.4246
102	2-Chlorotoluene	126	11.699	11.699	(0.941)	319437	10.0000	10.4207
103	1,3,5-Trimethylbenzene	105	11.670	11.670	(0.939)	1136901	10.0000	10.7799
104	4-Chlorotoluene	126	11.777	11.777	(0.948)	298042	10.0000	10.2017
105	tert-Butylbenzene	119	11.999	11.999	(0.965)	1124539	10.0000	10.7827
106	1,2,4-Trimethylbenzene	105	12.028	12.028	(0.968)	1147417	10.0000	10.8787
107	sec-Butylbenzene	134	12.192	12.192	(0.981)	333587	10.0000	9.36344
108	4-Isopropyltoluene	119	12.285	12.285	(0.988)	1328970	10.0000	10.2702

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	12.378	12.378	(0.996)	556372	10.0000	9.88255
111 1,4-dichlorobenzene	146	12.450	12.450	(1.002)	534216	10.0000	9.40965
113 n-Butylbenzene	91	12.686	12.686	(1.021)	1312095	10.0000	10.7074
114 1,2-Dichlorobenzene	146	12.850	12.850	(1.034)	451508	10.0000	9.90986
115 1,2-Dibromo-3-chloropropane	157	13.672	13.672	(1.100)	15485	10.0000	9.61646
116 1,2,4-Trichlorobenzene	180	14.723	14.723	(1.185)	304278	10.0000	9.90169
117 Hexachlorobutadiene	225	14.888	14.888	(1.198)	275825	10.0000	9.48854
118 Naphthalene	128	15.145	15.145	(1.219)	312716	10.0000	9.98636
119 1,2,3-Trichlorobenzene	180	15.503	15.503	(1.247)	258224	10.0000	10.0965

Data File: E3679.D

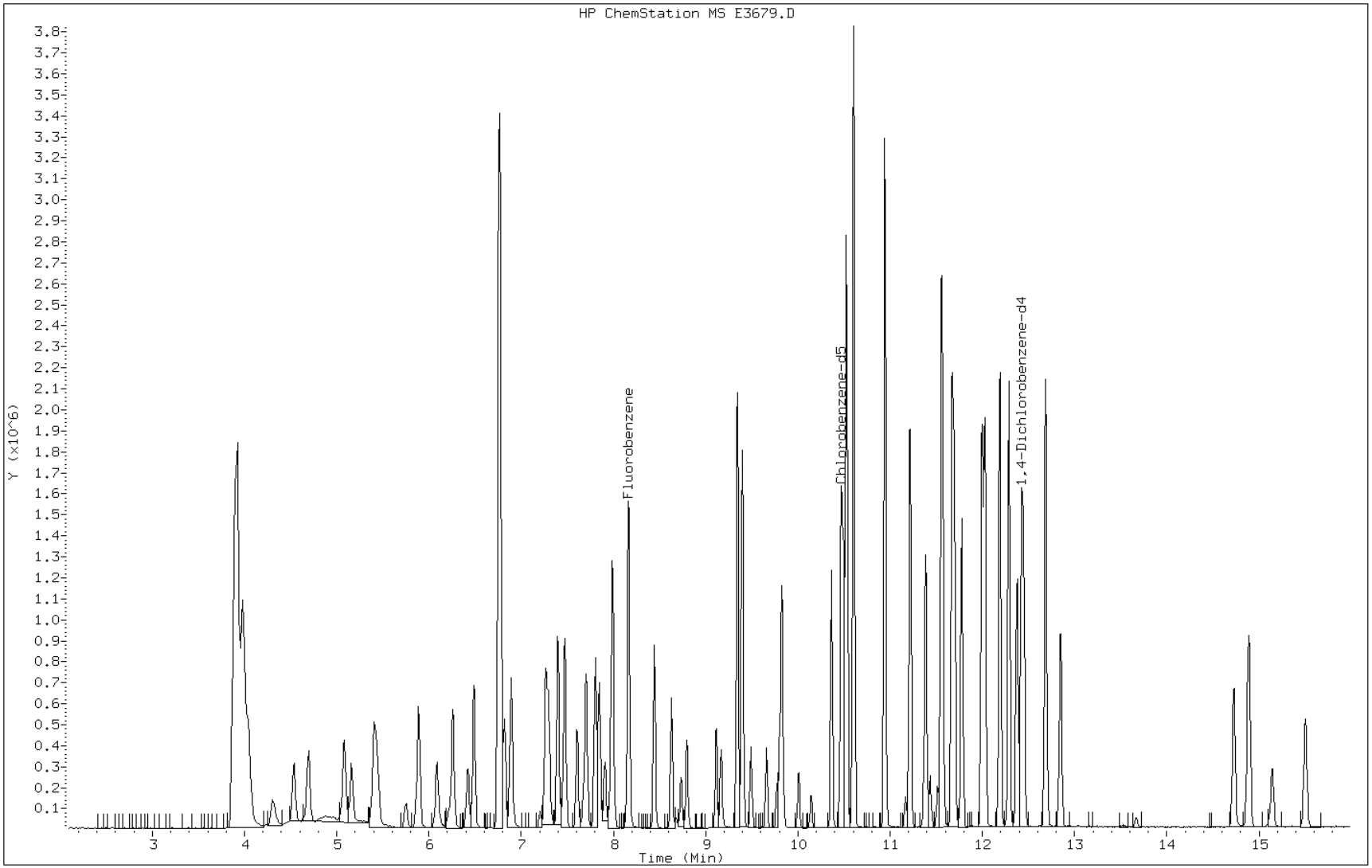
Date: 01-NOV-2011 20:10

Client ID:

Instrument: E.i

Sample Info: IC,,M 10.0

Operator: TINKHAMS



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3680.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 20:30
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,M 30.0
Misc Info :
Comment :
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Meth Date : 02-Nov-2011 17:35 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:32 Cal File: E3695.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	8.160	8.160	(1.000)	1463758	12.5000	
*	85 Chlorobenzene-d5	119	10.470	10.470	(1.000)	310214	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.429	12.429	(1.000)	494236	12.5000	
M	1 1,2-Dichloroethene (total)	96				2032536	60.0000	62.6287
M	2 Xylene (total)	106				5707009	90.0000	95.9132
M	3 1,3-Dichloropropene (total)	75				1696370	60.0000	66.9152
M	4 Trihalomethanes (total)	83				3179823	120.000	124.146
	5 dichlorodifluoromethane	85	4.314	4.314	(0.529)	905443	30.0000	30.2212
	7 Chloromethane	50	4.551	4.551	(0.558)	1330546	30.0000	28.5909
	8 Vinyl Chloride	62	4.705	4.705	(0.577)	1676056	30.0000	28.2676
	10 Bromomethane	94	5.082	5.082	(0.623)	1183367	30.0000	29.7716
	11 Chloroethane	64	5.166	5.166	(0.633)	1004256	30.0000	28.7132
	14 Trichlorofluoromethane	101	5.403	5.403	(0.662)	2490941	30.0000	28.2546
	13 Ethanol	45	5.445	5.445	(0.667)	181907	1500.00	1554.67
	18 Acrolein	56	5.753	5.753	(0.705)	439424	300.000	298.494
	19 Acetone	43	5.864	5.864	(0.719)	284403	120.000	122.466
	22 1,1-Dichloroethene	96	5.892	5.892	(0.722)	991837	30.0000	32.8124
	24 Iodomethane	142	6.087	6.087	(0.746)	1283969	30.0000	30.0156
	25 Acetonitrile	41	6.108	6.108	(0.749)	332263	300.000	297.103
	28 tert-Butyl alcohol	59	6.223	6.223	(0.763)	355204	600.000	619.610
	29 Methylene Chloride	84	6.258	6.258	(0.767)	882062	30.0000	30.3524
	30 Acrylonitrile	53	6.423	6.423	(0.787)	883585	300.000	311.865

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
32 trans-1,2-Dichloroethene	96	6.487	6.487	(0.795)	1020753	30.0000	30.9296
35 Isopropyl ether	87	6.766	6.766	(0.829)	3428368	150.000	174.637
36 1,1-Dichloroethane	63	6.823	6.823	(0.836)	1677558	30.0000	30.3366
37 Chloroprene	53	6.888	6.888	(0.844)	1550096	30.0000	34.9884
40 2-Butanone	43	7.209	7.209	(0.883)	330818	120.000	120.983
43 cis-1,2-Dichloroethene	96	7.267	7.267	(0.890)	1011783	30.0000	31.6990
42 Propionitrile	54	7.274	7.274	(0.891)	322142	300.000	307.832
44 2,2-Dichloropropane	77	7.295	7.295	(0.894)	1536942	30.0000	31.9107
45 Methacrylonitrile	41	7.395	7.395	(0.906)	1538199	300.000	325.848
46 Bromochloromethane	128	7.467	7.467	(0.915)	335438	30.0000	30.6869
47 Chloroform	83	7.474	7.474	(0.916)	1611073	30.0000	30.9541
51 1,1,1-Trichloroethane	97	7.703	7.703	(0.944)	1727831	30.0000	31.6553
50 Isobutanol	41	7.674	7.674	(0.940)	119916	600.000	594.222
53 1,1-Dichloropropene	75	7.803	7.803	(0.956)	1412457	30.0000	33.3392
54 Carbon Tetrachloride	117	7.846	7.846	(0.961)	1508346	30.0000	31.8334
56 1,2-Dichloroethane	62	7.967	7.967	(0.976)	663059	30.0000	28.5004
58 Benzene	78	7.989	7.989	(0.979)	3776125	30.0000	30.8514
60 n-Butanol	56	8.175	8.175	(1.002)	154769	600.000	570.027
61 Trichloroethene	95	8.446	8.446	(1.035)	951864	30.0000	30.8556
64 1,2-Dichloropropane	63	8.632	8.632	(1.058)	734938	30.0000	30.9283
66 1,4-Dioxane	88	8.682	8.682	(1.064)	148303	1500.00	1495.42
67 Dibromomethane	93	8.732	8.732	(1.070)	268146	30.0000	29.3633
68 Bromodichloromethane	83	8.797	8.797	(1.078)	861622	30.0000	30.7796
71 cis-1,3-Dichloropropene	75	9.118	9.118	(1.117)	961154	30.0000	33.7044
72 4-Methyl-2-pentanone	43	9.169	9.169	(1.124)	774173	120.000	133.779
74 Toluene	91	9.397	9.397	(1.152)	4060586	30.0000	30.7339
76 trans-1,3-Dichloropropene	75	9.490	9.490	(1.163)	735216	30.0000	33.2108
77 1,1,2-Trichloroethane	97	9.662	9.662	(1.184)	371397	30.0000	29.5652
78 2-Hexanone	43	9.769	9.769	(0.933)	487018	120.000	135.333
79 1,3-Dichloropropane	76	9.805	9.805	(0.936)	749631	30.0000	30.7685
80 Tetrachloroethene	164	9.826	9.826	(0.939)	875073	30.0000	31.4002
81 Dibromochloromethane	129	10.012	10.012	(0.956)	463390	30.0000	31.3677
83 1,2-Dibromoethane	107	10.141	10.141	(0.969)	333316	30.0000	30.5819
84 1-Chlorohexane	91	10.363	10.363	(0.990)	1427644	30.0000	29.9496
86 Chlorobenzene	112	10.491	10.491	(1.002)	2395871	30.0000	29.8075
87 1,1,1,2-Tetrachloroethane	131	10.527	10.527	(1.005)	796879	30.0000	31.4144
88 Ethylbenzene	106	10.527	10.527	(1.005)	1568332	30.0000	32.7073
89 m and p-Xylene	106	10.606	10.606	(1.013)	3834091	60.0000	66.0806
90 o-Xylene	106	10.942	10.942	(1.045)	1872918	30.0000	29.8325
91 Styrene	104	10.942	10.942	(1.045)	2769497	30.0000	30.1096
92 Bromoform	173	11.171	11.171	(1.067)	243738	30.0000	31.0443
93 isopropyl benzene	105	11.221	11.221	(0.903)	4646019	30.0000	34.3842
95 Cyclohexanone	55	11.371	11.371	(1.086)	319953	1200.00	1203.94
97 1,1,2,2-Tetrachloroethane	83	11.435	11.435	(0.920)	407160	30.0000	28.4367
99 1,2,3-Trichloropropane	110	11.514	11.514	(0.926)	119603	30.0000	30.5170
100 Bromobenzene	156	11.571	11.571	(0.931)	940622	30.0000	30.6224
101 n-Propylbenzene	120	11.557	11.557	(0.930)	1463341	30.0000	32.9524
102 2-Chlorotoluene	126	11.700	11.700	(0.941)	1161984	30.0000	32.6875
103 1,3,5-Trimethylbenzene	105	11.671	11.671	(0.939)	4204084	30.0000	34.3744
104 4-Chlorotoluene	126	11.778	11.778	(0.948)	1093946	30.0000	32.2895
105 tert-Butylbenzene	119	12.000	12.000	(0.965)	4170262	30.0000	34.4815
106 1,2,4-Trimethylbenzene	105	12.029	12.029	(0.968)	4237891	30.0000	34.6478
107 sec-Butylbenzene	134	12.193	12.193	(0.981)	1249606	30.0000	29.7688
108 4-Isopropyltoluene	119	12.286	12.286	(0.988)	4945037	30.0000	32.7118

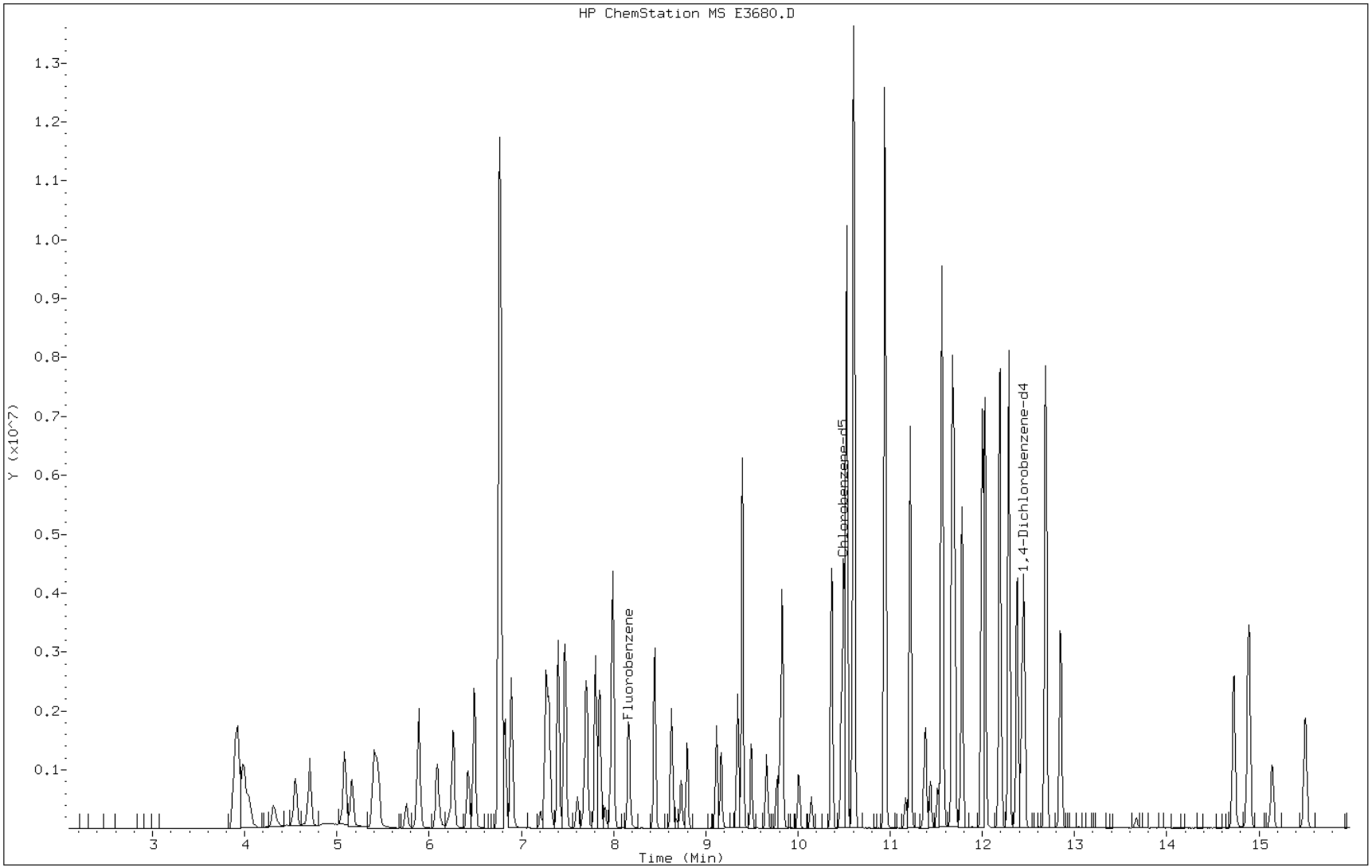
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	12.379	12.379	(0.996)	2002873	30.0000	30.6781
111 1,4-dichlorobenzene	146	12.450	12.450	(1.002)	1904031	30.0000	28.9202
113 n-Butylbenzene	91	12.686	12.686	(1.021)	4898203	30.0000	34.4690
114 1,2-Dichlorobenzene	146	12.844	12.844	(1.033)	1599671	30.0000	30.2764
115 1,2-Dibromo-3-chloropropane	157	13.666	13.666	(1.100)	60036	30.0000	32.1504
116 1,2,4-Trichlorobenzene	180	14.731	14.731	(1.185)	1181919	30.0000	33.1663
117 Hexachlorobutadiene	225	14.889	14.889	(1.198)	1026973	30.0000	30.4646
118 Naphthalene	128	15.146	15.146	(1.219)	1221723	30.0000	33.6435
119 1,2,3-Trichlorobenzene	180	15.504	15.504	(1.247)	943914	30.0000	31.8256

Data File: E3680.D

Date: 01-NOV-2011 20:30

Client ID: Instrument: E.i

Sample Info: IC,,M 30.0 Operator: TINKHAMS



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3681.D
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Inj Date : 01-NOV-2011 20:49
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,M 60.0
Misc Info :
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Meth Date : 02-Nov-2011 18:04 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:34 Cal File: E3692.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	59 Fluorobenzene	96	8.159	8.159	(1.000)	1602922	12.5000	
*	85 Chlorobenzene-d5	119	10.468	10.468	(1.000)	326538	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.428	12.428	(1.000)	522329	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				4546473	120.000	127.920
M	2 Xylene (total)	106				12145084	180.000	193.538
M	3 1,3-Dichloropropene (total)	75				3737916	120.000	134.332
M	4 Trihalomethanes (total)	83				6950977	240.000	252.179
	5 dichlorodifluoromethane	85	4.316	4.316	(0.529)	1656084	60.0000	50.4766
	7 Chloromethane	50	4.553	4.553	(0.558)	2633657	60.0000	51.6789
	8 Vinyl Chloride	62	4.707	4.707	(0.577)	3257585	60.0000	50.1710
	10 Bromomethane	94	5.070	5.070	(0.621)	2145083	60.0000	49.2816(Q)
	11 Chloroethane	64	5.154	5.154	(0.632)	1946013	60.0000	50.8089
	14 Trichlorofluoromethane	101	5.405	5.405	(0.662)	5146588	60.0000	53.3093
	13 Ethanol	45	5.447	5.447	(0.668)	366524	3000.00	2957.91(Q)
	18 Acrolein	56	5.754	5.754	(0.705)	1001959	600.000	621.525(A)
	19 Acetone	43	5.866	5.866	(0.719)	582629	240.000	233.348
	22 1,1-Dichloroethene	96	5.880	5.880	(0.721)	1996474	60.0000	60.3140(A)
	24 Iodomethane	142	6.085	6.085	(0.746)	3222640	60.0000	68.7958(A)
	25 Acetonitrile	41	6.107	6.107	(0.749)	685088	600.000	559.408(Q)
	28 tert-Butyl alcohol	59	6.221	6.221	(0.763)	827891	1200.00	1318.77(AQ)
	29 Methylene Chloride	84	6.257	6.257	(0.767)	1902741	60.0000	61.2542(A)
	30 Acrylonitrile	53	6.421	6.421	(0.787)	2000007	600.000	644.625(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
32 trans-1,2-Dichloroethene	96	6.486	6.486	(0.795)	2291753	60.0000	63.4131(A)
35 Isopropyl ether	87	6.765	6.765	(0.829)	7729713	300.000	359.558(A)
36 1,1-Dichloroethane	63	6.822	6.822	(0.836)	3661512	60.0000	60.4653(A)
37 Chloroprene	53	6.886	6.886	(0.844)	3411679	60.0000	70.3219(AQ)
40 2-Butanone	43	7.208	7.208	(0.883)	759846	240.000	253.758(A)
43 cis-1,2-Dichloroethene	96	7.265	7.265	(0.890)	2254720	60.0000	64.5071(A)
42 Propionitrile	54	7.272	7.272	(0.891)	728996	600.000	636.133(AQ)
44 2,2-Dichloropropane	77	7.294	7.294	(0.894)	3369562	60.0000	63.8866(A)
45 Methacrylonitrile	41	7.394	7.394	(0.906)	3358289	600.000	649.646(A)
46 Bromochloromethane	128	7.465	7.465	(0.915)	733585	60.0000	61.2841(A)
47 Chloroform	83	7.473	7.473	(0.916)	3528428	60.0000	61.9072(A)
51 1,1,1-Trichloroethane	97	7.701	7.701	(0.944)	3774075	60.0000	63.1412(AQ)
50 Isobutanol	41	7.673	7.673	(0.940)	280004	1200.00	1267.05(AQ)
53 1,1-Dichloropropene	75	7.801	7.801	(0.956)	3141261	60.0000	67.7081(A)
54 Carbon Tetrachloride	117	7.844	7.844	(0.961)	3271871	60.0000	63.0573(A)
56 1,2-Dichloroethane	62	7.966	7.966	(0.976)	1419806	60.0000	55.7294
58 Benzene	78	7.994	7.994	(0.980)	7978144	60.0000	59.5234
60 n-Butanol	56	8.173	8.173	(1.002)	349941	1200.00	1215.37(AQ)
61 Trichloroethene	95	8.445	8.445	(1.035)	2104234	60.0000	62.2888(A)
64 1,2-Dichloropropane	63	8.631	8.631	(1.058)	1596318	60.0000	61.3454(A)
66 1,4-Dioxane	88	8.681	8.681	(1.064)	339870	3000.00	3092.44(A)
67 Dibromomethane	93	8.731	8.731	(1.070)	589658	60.0000	58.9645
68 Bromodichloromethane	83	8.795	8.795	(1.078)	1889443	60.0000	61.6363(A)
71 cis-1,3-Dichloropropene	75	9.117	9.117	(1.117)	2151758	60.0000	68.9040(A)
72 4-Methyl-2-pentanone	43	9.167	9.167	(1.124)	1677528	240.000	264.713(A)
74 Toluene	91	9.396	9.396	(1.152)	8385537	60.0000	57.9584
76 trans-1,3-Dichloropropene	75	9.489	9.489	(1.163)	1586158	60.0000	65.4285(A)
77 1,1,2-Trichloroethane	97	9.660	9.660	(1.184)	801592	60.0000	58.2710
78 2-Hexanone	43	9.768	9.768	(0.933)	1064193	240.000	280.935(A)
79 1,3-Dichloropropane	76	9.803	9.803	(0.936)	1588517	60.0000	61.9411(A)
80 Tetrachloroethene	164	9.825	9.825	(0.939)	1898067	60.0000	64.7035(A)
81 Dibromochloromethane	129	10.011	10.011	(0.956)	1003146	60.0000	64.5101(A)
83 1,2-Dibromoethane	107	10.147	10.147	(0.969)	719877	60.0000	62.7472(A)
84 1-Chlorohexane	91	10.368	10.368	(0.990)	3111325	60.0000	61.7243(A)
86 Chlorobenzene	112	10.497	10.497	(1.003)	4959792	60.0000	58.6210
87 1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	1783105	60.0000	66.7792(A)
88 Ethylbenzene	106	10.526	10.526	(1.005)	3397747	60.0000	67.3171(A)
89 m and p-Xylene	106	10.604	10.604	(1.013)	8055873	120.000	131.902(A)
90 o-Xylene	106	10.940	10.940	(1.045)	4089211	60.0000	61.6362(A)
91 Styrene	104	10.940	10.940	(1.045)	5984174	60.0000	61.5198(A)
92 Bromoform	173	11.169	11.169	(1.067)	529960	60.0000	64.1253(A)
93 isopropyl benzene	105	11.219	11.219	(0.903)	9501180	60.0000	66.5343(A)
95 Cyclohexanone	55	11.369	11.369	(1.086)	712034	2400.00	2512.91(A)
97 1,1,2,2-Tetrachloroethane	83	11.434	11.434	(0.920)	860794	60.0000	56.8858(Q)
99 1,2,3-Trichloropropane	110	11.512	11.512	(0.926)	247499	60.0000	59.7534
100 Bromobenzene	156	11.570	11.570	(0.931)	2012081	60.0000	61.9811(A)
101 n-Propylbenzene	120	11.555	11.555	(0.930)	3189444	60.0000	67.9589(A)
102 2-Chlorotoluene	126	11.698	11.698	(0.941)	2414455	60.0000	64.2675(A)
103 1,3,5-Trimethylbenzene	105	11.670	11.670	(0.939)	8750097	60.0000	67.6967(A)
104 4-Chlorotoluene	126	11.777	11.777	(0.948)	2305604	60.0000	64.3932(A)
105 tert-Butylbenzene	119	11.999	11.999	(0.965)	9040083	60.0000	70.7270(A)
106 1,2,4-Trimethylbenzene	105	12.027	12.027	(0.968)	8649080	60.0000	66.9093(A)
107 sec-Butylbenzene	134	12.192	12.192	(0.981)	2733918	60.0000	61.3968(A)
108 4-Isopropyltoluene	119	12.285	12.285	(0.988)	9971567	60.0000	62.3156(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 1,3-Dichlorobenzene	146	12.378	12.378	(0.996)	4174904	60.0000	60.5078(A)
111 1,4-dichlorobenzene	146	12.449	12.449	(1.002)	3956518	60.0000	56.8632
113 n-Butylbenzene	91	12.685	12.685	(1.021)	9888013	60.0000	65.8401(A)
114 1,2-Dichlorobenzene	146	12.849	12.849	(1.034)	3329348	60.0000	59.6242
115 1,2-Dibromo-3-chloropropane	157	13.672	13.672	(1.100)	134779	60.0000	68.2948(AQ)
116 1,2,4-Trichlorobenzene	180	14.730	14.730	(1.185)	2499162	60.0000	66.3582(A)
117 Hexachlorobutadiene	225	14.887	14.887	(1.198)	2191998	60.0000	61.5272(A)
118 Naphthalene	128	15.145	15.145	(1.219)	2717882	60.0000	70.8176(A)
119 1,2,3-Trichlorobenzene	180	15.502	15.502	(1.247)	1974450	60.0000	62.9913(A)

QC Flag Legend

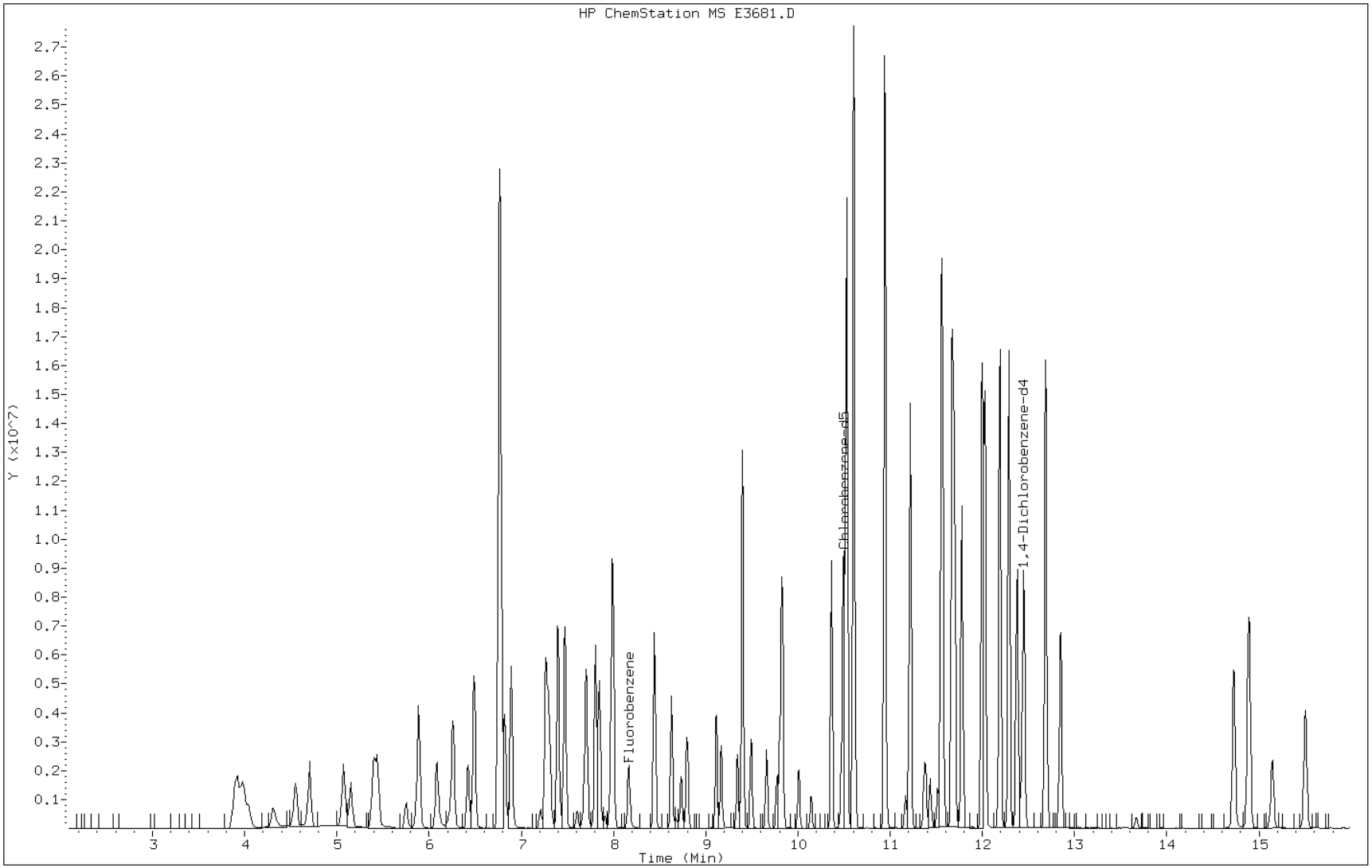
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: E3681.D

Date: 01-NOV-2011 20:49

Client ID: Instrument: E.i

Sample Info: IC,,M 60.0 Operator: TINKHAMS



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 23:44 Calibration End Date: 11/02/2011 02:11 Calibration ID: 7695

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-94522/14	E3692.D
Level 2	IC 280-94522/15	E3693.D
Level 3	IC 280-94522/16	E3694.D
Level 4	ICIS 280-94522/17	E3695.D
Level 5	IC 280-94522/18	E3696.D
Level 6	IC 280-94522/19	E3697.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.1210	0.1680	0.1731	0.1718	0.1431	Ave		0.1554				14.7		15.0			
Ethylene oxide	0.0062 +++++	0.0061	0.0059	0.0057	0.0045	Ave		0.0057				12.3		15.0			
Dichlorofluoromethane	0.8930 0.7229	0.9381	0.9236	0.8827	0.8464	Ave		0.8678				9.0		15.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.3179 0.3169	0.3374	0.3497	0.3440	0.3335	Ave		0.3332				4.0		15.0			
Ethyl ether	0.1195 0.1176	0.1139	0.1180	0.1215	0.1193	Ave		0.1183				2.2		15.0			
2,2-Dichloro-1,1,1-trifluoroethane	0.4282 0.4477	0.4868	0.4853	0.4775	0.4762	Ave		0.4670				5.1		15.0			
1,1,2-Trichlorotrifluoroethane	0.2533 0.2731	0.2901	0.2974	0.2973	0.2890	Ave		0.2834				6.1		15.0			
2-Propanol	0.0038 0.0035	0.0040	0.0037	0.0041	0.0040	Ave		0.0039				5.8		15.0			
Methyl acetate	0.0483 0.0450	0.0461	0.0477	0.0464	0.0475	Ave		0.0468				2.6		15.0			
Allyl chloride	0.2992 0.3660	0.3354	0.3501	0.3439	0.3778	Ave		0.3454				7.9		15.0			
Carbon disulfide	1.0710 1.1308	1.1861	1.2396	1.2139	1.2234	Ave		1.1775				5.5		15.0			
Tetrahydrofuran	+++++ 0.0157	0.0083	0.0141	0.0139	0.0160	Lin2	0.1529	0.0163							0.9973		0.9900
Methyl tert-butyl ether	0.2853 0.3386	0.2917	0.3030	0.3167	0.3476	Ave		0.3138				8.0		15.0			
Hexane	1.3764 1.9080	1.6592	1.9772	2.0367	2.0240	Ave		1.8302				14.3		15.0			
Vinyl acetate	0.1187 0.1542	0.1258	0.1361	0.1322	0.1375	Ave		0.1341				9.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 23:44 Calibration End Date: 11/02/2011 02:11 Calibration ID: 7695

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	0.3886 0.4414	0.4230	0.4606	0.4731	0.5076	Ave		0.4491				9.2		15.0			
Ethyl acetate	+++++ 0.0542	0.0513	0.0548	0.0535	0.0553	Ave		0.0538				2.9		15.0			
2-Chloroethyl vinyl ether	+++++ 0.0389	0.0113	0.0149	0.0190	0.0306	Lin	0.3191	0.0406							0.9903		
Cyclohexane	0.3401 0.4881	0.4115	0.4820	0.5170	0.5185	Lin2	0.0279	0.5154							0.9986		0.9900
Tert-amyl methyl ether	0.2816 0.3664	0.3147	0.3524	0.3672	0.4047	Ave		0.3478				12.5		15.0			
2-Pentanone	0.0293 0.0373	0.0301	0.0303	0.0334	0.0380	Ave		0.0331				11.5		15.0			
Methyl methacrylate	0.0090 0.0210	0.0141	0.0154	0.0166	0.0208	Lin2	0.0917	0.0198							0.9902		0.9900
Methylcyclohexane	0.3038 0.4103	0.3616	0.4222	0.4199	0.4282	Ave		0.3910				12.5		15.0			
2-Nitropropane	0.0602 +++++	0.0713	0.0527	0.0492	0.0459	Lin1	-0.046	0.0461							0.9934		0.9900
Ethyl methacrylate	+++++ 0.6455	0.3693	0.4887	0.5314	0.6458	Lin2	0.1434	0.6343							0.9954		0.9900
Tetrahydrothiophene	+++++ 0.2160	0.1339	0.1297	0.1530	0.1995	Lin1	0.1049	0.2141							0.9928		0.9900
cis-1,4-Dichloro-2-butene	+++++ 0.0687	0.0538	0.0604	0.0616	0.0685	Ave		0.0626				9.9		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0594	0.0462	0.0464	0.0521	0.0587	Ave		0.0525				12.2		15.0			
1,2,3-Trimethylbenzene	2.5529 3.1011	2.7459	2.9093	3.0592	3.1936	Ave		2.9270				8.3		15.0			
Dibromofluoromethane (Surr)	0.2067 0.2043	0.2097	0.2105	0.2086	0.2102	Ave		0.2083				1.2		15.0			
1,2-Dichloroethane-d4 (Surr)	0.1755 0.1516	0.1755	0.1648	0.1574	0.1617	Ave		0.1644				5.9		15.0			
Toluene-d8 (Surr)	3.9007 4.5802	4.0667	4.5052	4.6339	4.8691	Ave		4.4260				8.3		15.0			
4-Bromofluorobenzene (Surr)	0.8854 0.9314	0.8302	0.8572	0.8629	0.9411	Ave		0.8847				4.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 23:44 Calibration End Date: 11/02/2011 02:11 Calibration ID: 7695

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-94522/14	E3692.D
Level 2	IC 280-94522/15	E3693.D
Level 3	IC 280-94522/16	E3694.D
Level 4	ICIS 280-94522/17	E3695.D
Level 5	IC 280-94522/18	E3696.D
Level 6	IC 280-94522/19	E3697.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	+++++ 971396	34522	92559	188616	505297	+++++ 60.0	2.00	5.00	10.0	30.0
Ethylene oxide	FB	Ave	84080 +++++	156880	393817	782273	1976985	125 +++++	250	625	1250	3750
Dichlorofluoromethane	FB	Ave	96511 5804995	192827	493898	969199	2989600	1.00 60.0	2.00	5.00	10.0	30.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	34355 2545109	69360	187003	377739	1177798	1.00 60.0	2.00	5.00	10.0	30.0
Ethyl ether	FB	Ave	12919 944519	23406	63126	133377	421442	1.00 60.0	2.00	5.00	10.0	30.0
2,2-Dichloro-1,1,1-trifluoroethane	FB	Ave	46278 3594756	100065	259507	524361	1682086	1.00 60.0	2.00	5.00	10.0	30.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	27372 2193013	59633	159064	326504	1020859	1.00 60.0	2.00	5.00	10.0	30.0
2-Propanol	FB	Ave	8144 567202	16514	39779	90936	280772	20.0 1200	40.0	100	200	600
Methyl acetate	FB	Ave	26081 1806089	47353	127604	254654	839228	5.00 300	10.0	25.0	50.0	150
Allyl chloride	FB	Ave	32331 2938611	68939	187243	377631	1334238	1.00 60.0	2.00	5.00	10.0	30.0
Carbon disulfide	FB	Ave	115748 9080714	243800	662910	1332914	4321017	1.00 60.0	2.00	5.00	10.0	30.0
Tetrahydrofuran	FB	Lin2	+++++ 252167	3399	15085	30467	113325	+++++ 120	4.00	10.0	20.0	60.0
Methyl tert-butyl ether	FB	Ave	30832 2718944	59955	162024	347761	1227786	1.00 60.0	2.00	5.00	10.0	30.0
Hexane	CBZ	Ave	29575 3011448	68745	212012	439643	1405618	1.00 60.0	2.00	5.00	10.0	30.0
Vinyl acetate	FB	Ave	25647 2476062	51708	145541	290277	971202	2.00 120	4.00	10.0	20.0	60.0
Tert-butyl ethyl ether	FB	Ave	209978 17720604	434731	1231690	2597609	8963959	5.00 300	10.0	25.0	50.0	150

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94522

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 23:44 Calibration End Date: 11/02/2011 02:11 Calibration ID: 7695

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethyl acetate	FB	Ave	+++++ 871008	21103	58621	117508	390876	+++++ 120	4.00	10.0	20.0	60.0
2-Chloroethyl vinyl ether	FB	Lin	+++++ 312121	2316	7959	20868	107902	+++++ 60.0	2.00	5.00	10.0	30.0
Cyclohexane	FB	Lin2	36751 3919700	84588	257744	567647	1831452	1.00 60.0	2.00	5.00	10.0	30.0
Tert-amyl methyl ether	FB	Ave	152183 14710074	323475	942165	2015886	7147097	5.00 300	10.0	25.0	50.0	150
2-Pentanone	FB	Ave	12661 1197486	24775	64902	146916	537020	4.00 240	8.00	20.0	40.0	120
Methyl methacrylate	FB	Lin2	1943 337567	5783	16453	36565	147152	2.00 120	4.00	10.0	20.0	60.0
Methylcyclohexane	FB	Ave	32837 3294983	74316	225789	461109	1512400	1.00 60.0	2.00	5.00	10.0	30.0
2-Nitropropane	FB	Lin1	6511 +++++	14649	28161	53975	161977	1.00 +++++	2.00	5.00	10.0	30.0
Ethyl methacrylate	CBZ	Lin2	+++++ 2037590	30604	104803	229443	896931	+++++ 120	4.00	10.0	20.0	60.0
Tetrahydrothiophene	CBZ	Lin1	+++++ 340919	5546	13911	33036	138519	+++++ 60.0	2.00	5.00	10.0	30.0
cis-1,4-Dichloro-2-butene	DCB	Ave	+++++ 157951	3065	8817	18167	69342	+++++ 60.0	2.00	5.00	10.0	30.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 136610	2630	6770	15366	59414	+++++ 60.0	2.00	5.00	10.0	30.0
1,2,3-Trimethylbenzene	DCB	Ave	76223 7133565	156467	424433	902661	3233595	1.00 60.0	2.00	5.00	10.0	30.0
Dibromofluoromethane (Surr)	FB	Ave	22342 1640415	43102	112563	229095	742359	1.00 60.0	2.00	5.00	10.0	30.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	18966 1217721	36079	88153	172834	571202	1.00 60.0	2.00	5.00	10.0	30.0
Toluene-d8 (Surr)	CBZ	Ave	83818 7229057	168491	483095	1000304	3381499	1.00 60.0	2.00	5.00	10.0	30.0
4-Bromofluorobenzene (Surr)	DCB	Ave	26437 2142660	47305	125062	254625	952865	1.00 60.0	2.00	5.00	10.0	30.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3692.D
Lab Smp Id: IC
Inj Date : 02-NOV-2011 00:34
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,S 1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 16:21 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 02:11 Cal File: E3697.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	8.166	8.166	(1.000)	1350930	12.5000	
* 85 Chlorobenzene-d5	119	10.476	10.476	(1.000)	268598	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.428	12.428	(1.000)	373225	12.5000	(Q)
$ 49 Dibromofluoromethane (Surr)	111	7.602	7.602	(0.931)	22342	1.00000	0.992279(a)
$ 55 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	18966	1.00000	1.06721
$ 73 Toluene-d8	98	9.346	9.346	(0.892)	83818	1.00000	0.881326(a)
$ 96 4-Bromofluorobenzene (Surr)	95	11.391	11.391	(0.917)	26437	1.00000	1.00080
6 1,2-Dichlorotetrafluoroethane	85	4.468	4.468	(0.547)	14611	1.00000	0.870149(a)
9 Ethylene Oxide	43	5.040	5.040	(0.617)	84080	125.000	136.976(a)
12 Dichlorofluoromethane	67	5.306	5.306	(0.650)	96511	1.00000	1.02906(a)
15 1,2-dichloro-1,1,2-trifluoro	117	5.571	5.571	(0.682)	34355	1.00000	0.953915(a)
16 Ethyl Ether	59	5.599	5.599	(0.686)	12919	1.00000	1.01037(a)
17 2,2-dichloro-1,1,1-trifluoro	83	5.599	5.599	(0.686)	46278	1.00000	0.917009(a)
20 Trichlorotrifluoroethane	151	5.850	5.850	(0.716)	27372	1.00000	0.893726(a)
21 2-propanol	45	5.864	5.864	(0.718)	8144	20.0000	19.5294(aQ)
23 Methyl Acetate	43	6.107	6.107	(0.748)	26081	5.00000	5.15372
26 Allyl Chloride	41	6.164	6.164	(0.755)	32331	1.00000	0.866148(a)
27 Carbon Disulfide	76	6.193	6.193	(0.758)	115748	1.00000	0.909573(a)
31 Methyl t-butyl ether	73	6.450	6.450	(0.790)	30832	1.00000	0.909092(a)
33 Hexane	57	6.658	6.658	(0.636)	29575	1.00000	0.752016(a)
34 Vinyl acetate	43	6.744	6.744	(0.826)	25647	2.00000	1.77018(a)
38 ETBE	59	7.051	7.051	(0.863)	209978	5.00000	4.32668(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39 Ethyl Acetate	43	7.194	7.194	(0.881)	12183	2.00000	2.09360(aQ)
41 2-Butanol	45	7.244	7.244	(0.887)	9124	30.0000	25.0824(Q)
48 Tetrahydrofuran	42	Compound Not Detected.					
52 Cyclohexane	56	7.780	7.780	(0.953)	36751	1.00000	1.00892(a)
57 TAME	73	7.973	7.973	(0.976)	152183	5.00000	4.04830(a)
62 2-Pentanone	43	8.481	8.481	(1.039)	12661	4.00000	3.54100(a)
65 Methyl Cyclohexane	55	8.638	8.638	(1.058)	32837	1.00000	0.777050(a)
63 Methyl Methacrylate	100	8.567	8.567	(1.049)	1943	2.00000	2.05669(aQ)
69 2-nitropropane	41	8.960	8.960	(1.097)	6511	1.00000	0.728656(aQ)
70 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
75 Ethyl methacrylate	69	9.475	9.475	(0.904)	15424	2.00000	2.92412(a)
82 Tetrahydrothiophene	60	10.054	10.054	(0.960)	2782	1.00000	1.91562(aQ)
112 1,2,3-Trimethylbenzene	105	12.449	12.449	(1.002)	76223	1.00000	0.872183(a)

QC Flag Legend

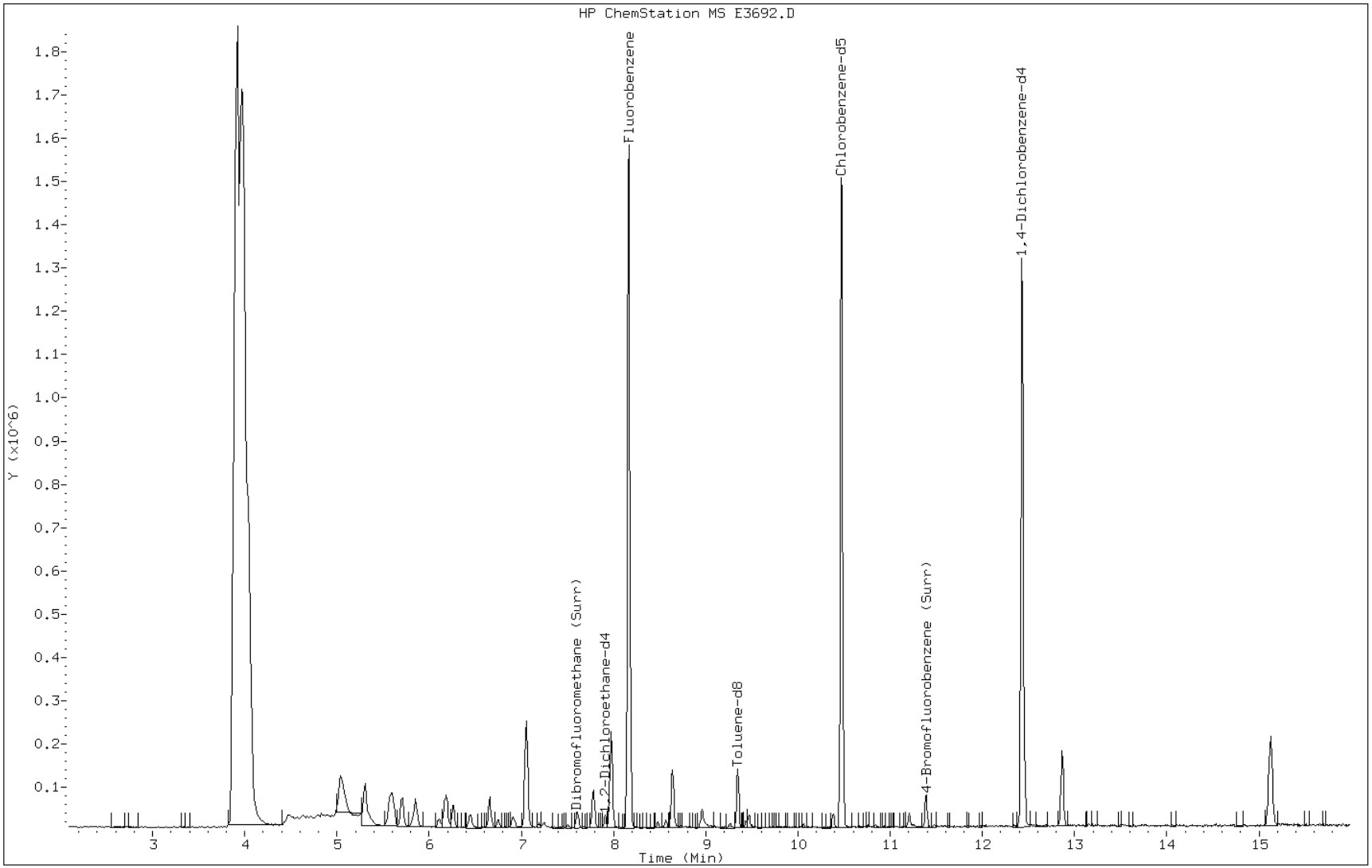
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E3692.D

Date: 02-NOV-2011 00:34

Client ID: Instrument: E.i

Sample Info: IC,,S 1.0 Operator: TINKHAMS



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3693.D
Lab Smp Id: IC
Inj Date : 02-NOV-2011 00:54
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,S 2.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 16:21 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:34 Cal File: E3692.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 59 Fluorobenzene	96	8.166	8.166	(1.000)	1284652	12.5000	
* 85 Chlorobenzene-d5	119	10.468	10.468	(1.000)	258952	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.427	12.427	(1.000)	356144	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.608	7.608	(0.932)	43102	2.00000	2.01306
$ 55 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	36079	2.00000	2.13489
$ 73 Toluene-d8	98	9.346	9.346	(0.893)	168491	2.00000	1.83764
$ 96 4-Bromofluorobenzene (Surr)	95	11.391	11.391	(0.917)	47305	2.00000	1.87667
6 1,2-Dichlorotetrafluoroethane	85	4.468	4.468	(0.547)	34522	2.00000	2.16201(Q)
9 Ethylene Oxide	43	5.041	5.041	(0.617)	156880	250.000	268.762(a)
12 Dichlorofluoromethane	67	5.306	5.306	(0.650)	192827	2.00000	2.16212
15 1,2-dichloro-1,1,2-trifluoro	117	5.572	5.572	(0.682)	69360	2.00000	2.02524
16 Ethyl Ether	59	5.600	5.600	(0.686)	23406	2.00000	1.92498(a)
17 2,2-dichloro-1,1,1-trifluoro	83	5.600	5.600	(0.686)	100065	2.00000	2.08511
20 Trichlorotrifluoroethane	151	5.851	5.851	(0.717)	59633	2.00000	2.04754(a)
21 2-propanol	45	5.879	5.879	(0.720)	16514	40.0000	41.6438
23 Methyl Acetate	43	6.107	6.107	(0.748)	47353	10.0000	9.83993
26 Allyl Chloride	41	6.164	6.164	(0.755)	68939	2.00000	1.94216(a)
27 Carbon Disulfide	76	6.193	6.193	(0.758)	243800	2.00000	2.01468
31 Methyl t-butyl ether	73	6.443	6.443	(0.789)	59955	2.00000	1.85900(a)
33 Hexane	57	6.657	6.657	(0.636)	68745	2.00000	1.81312(a)
34 Vinyl acetate	43	6.743	6.743	(0.826)	51708	4.00000	3.75306
38 ETBE	59	7.051	7.051	(0.863)	434731	10.0000	9.41997

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39	Ethyl Acetate	43	7.186	7.186	(0.880)	21103	4.00000	3.81357(aQ)
41	2-Butanol	45	7.244	7.244	(0.887)	18684	60.0000	54.0134(Q)
48	Tetrahydrofuran	42	7.508	7.508	(0.919)	3399	4.00000	3.94522(a)
52	Cyclohexane	56	7.780	7.780	(0.953)	84588	2.00000	1.94601(a)
57	TAME	73	7.973	7.973	(0.976)	323475	10.0000	9.04887
62	2-Pentanone	43	8.481	8.481	(1.039)	24775	8.00000	7.28651
65	Methyl Cyclohexane	55	8.638	8.638	(1.058)	74316	2.00000	1.84933
63	Methyl Methacrylate	100	8.566	8.566	(1.049)	5783	4.00000	3.99468(a)
69	2-nitropropane	41	8.960	8.960	(1.097)	14649	2.00000	2.51562(a)
70	2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	2316	2.00000	4.54377(Q)
75	Ethyl methacrylate	69	9.467	9.467	(0.904)	30604	4.00000	4.12147
82	Tetrahydrothiophene	60	10.054	10.054	(0.960)	5546	2.00000	2.56120(Q)
94	cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.904)	3065	2.00000	1.71879(aQ)
98	t-1,4-Dichloro-2-butene	53	11.469	11.469	(0.923)	2630	2.00000	1.75691(aQ)
112	1,2,3-Trimethylbenzene	105	12.449	12.449	(1.002)	156467	2.00000	1.87624

QC Flag Legend

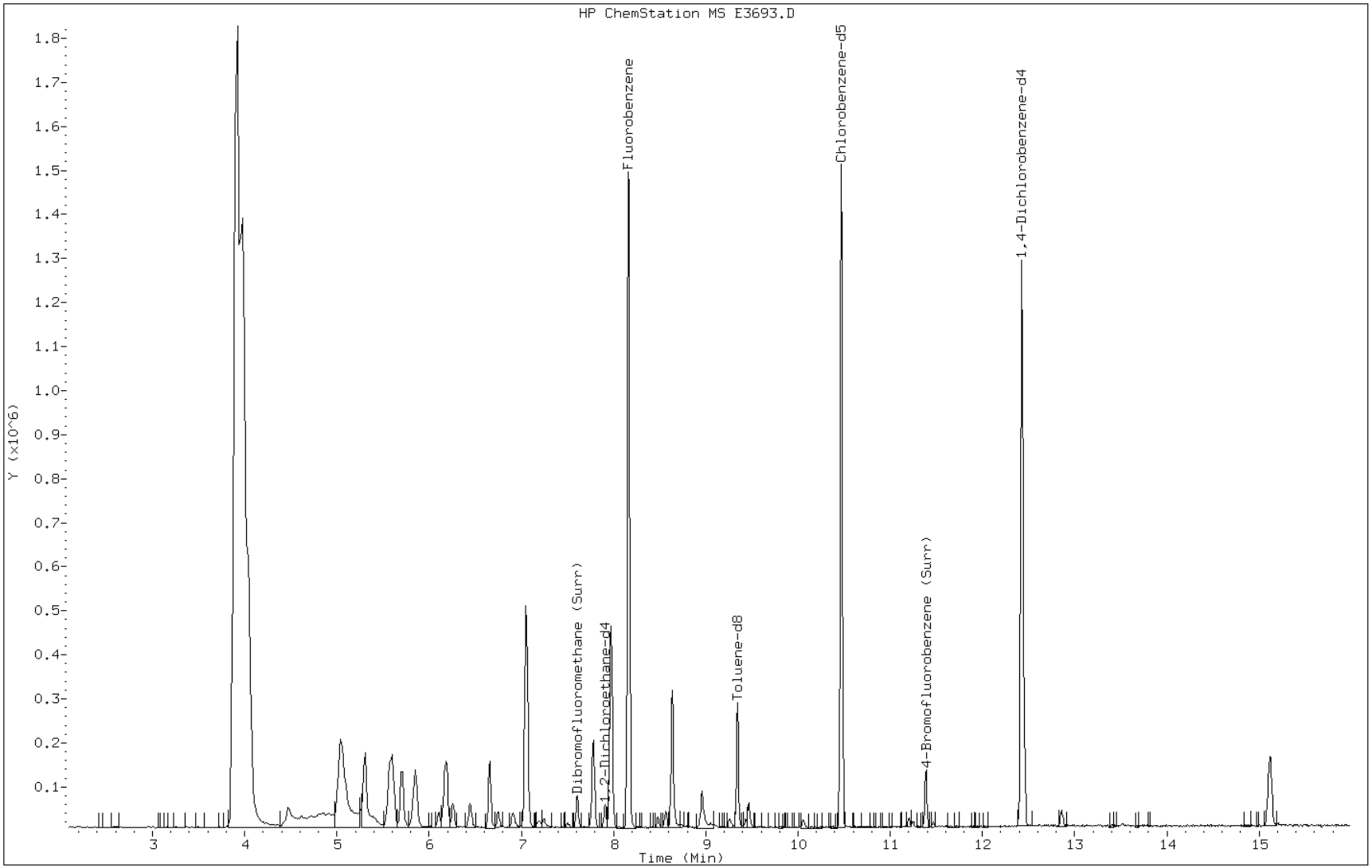
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E3693.D

Date: 02-NOV-2011 00:54

Client ID: Instrument: E.i

Sample Info: IC,,S 2.0 Operator: TINKHAMS



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3694.D
Lab Smp Id: IC
Inj Date : 02-NOV-2011 01:13
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,S 5.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 16:21 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:54 Cal File: E3693.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	8.167	8.167	(1.000)	1336927	12.5000	
* 85 Chlorobenzene-d5	119	10.469	10.469	(1.000)	268075	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.428	12.428	(1.000)	364726	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.932)	112563	5.00000	5.05164
$ 55 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	88153	5.00000	5.01228
$ 73 Toluene-d8	98	9.347	9.347	(0.893)	483095	5.00000	5.08954
$ 96 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.916)	125062	5.00000	4.84469
6 1,2-Dichlorotetrafluoroethane	85	4.481	4.481	(0.549)	92559	5.00000	5.57003
9 Ethylene Oxide	43	5.040	5.040	(0.617)	393817	625.000	648.294
12 Dichlorofluoromethane	67	5.305	5.305	(0.650)	493898	5.00000	5.32142
15 1,2-dichloro-1,1,2-trifluoro	117	5.570	5.570	(0.682)	187003	5.00000	5.24679
16 Ethyl Ether	59	5.598	5.598	(0.686)	63126	5.00000	4.98867
17 2,2-dichloro-1,1,1-trifluoro	83	5.612	5.612	(0.687)	259507	5.00000	5.19605
20 Trichlorotrifluoroethane	151	5.850	5.850	(0.716)	159064	5.00000	5.24801
21 2-propanol	45	5.878	5.878	(0.720)	39779	100.000	96.3894
23 Methyl Acetate	43	6.108	6.108	(0.748)	127604	25.0000	25.4792(Q)
26 Allyl Chloride	41	6.165	6.165	(0.755)	187243	5.00000	5.06879
27 Carbon Disulfide	76	6.193	6.193	(0.758)	662910	5.00000	5.26385
31 Methyl t-butyl ether	73	6.451	6.451	(0.790)	162024	5.00000	4.82737(a)
33 Hexane	57	6.658	6.658	(0.636)	212012	5.00000	5.40144
34 Vinyl acetate	43	6.751	6.751	(0.827)	145541	10.0000	10.1506
38 ETBE	59	7.051	7.051	(0.863)	1231690	25.0000	25.6453

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 Ethyl Acetate	43	7.194	7.194	(0.881)	58621	10.0000	10.1793(Q)
41 2-Butanol	45	7.245	7.245	(0.887)	46605	150.000	129.462
48 Tetrahydrofuran	42	7.509	7.509	(0.919)	15085	10.0000	10.5841
52 Cyclohexane	56	7.781	7.781	(0.953)	257744	5.00000	5.02454
57 TAME	73	7.974	7.974	(0.976)	942165	25.0000	25.3255
62 2-Pentanone	43	8.482	8.482	(1.039)	64902	20.0000	18.3418
65 Methyl Cyclohexane	55	8.639	8.639	(1.058)	225789	5.00000	5.39900
63 Methyl Methacrylate	100	8.567	8.567	(1.049)	16453	10.0000	8.93239
69 2-nitropropane	41	8.961	8.961	(1.097)	28161	5.00000	5.13790
70 2-Chloroethyl vinyl ether	63	8.932	8.932	(1.094)	7959	5.00000	5.82117(Q)
75 Ethyl methacrylate	69	9.468	9.468	(0.904)	104803	10.0000	9.49658
82 Tetrahydrothiophene	60	10.062	10.062	(0.961)	13911	5.00000	4.34008
94 cis-1,4-dichloro-2-butene	53	11.249	11.249	(0.905)	8817	5.00000	4.82806
98 t-1,4-Dichloro-2-butene	53	11.470	11.470	(0.923)	6770	5.00000	4.41612
112 1,2,3-Trimethylbenzene	105	12.450	12.450	(1.002)	424433	5.00000	4.96975

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E3694.D

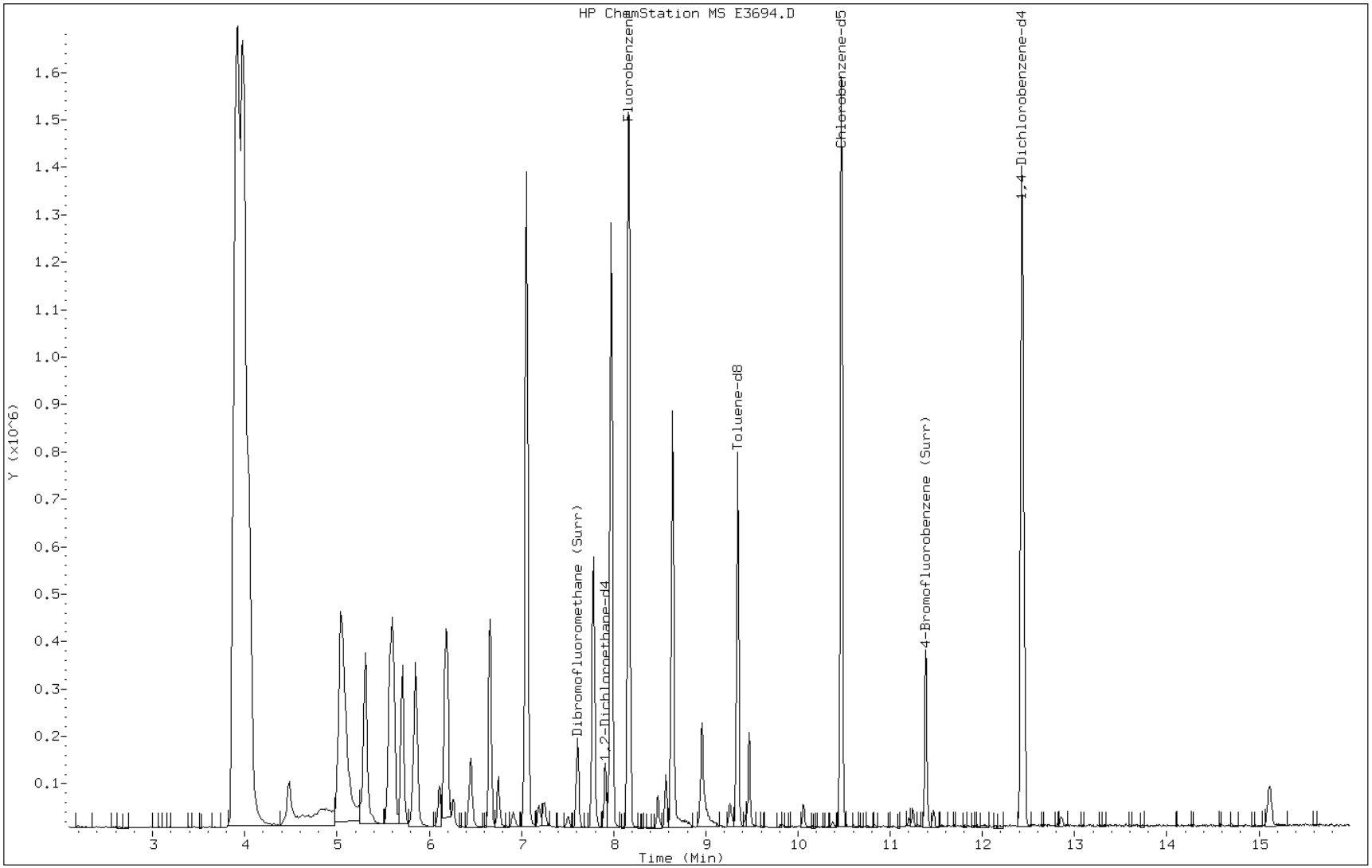
Date: 02-NOV-2011 01:13

Client ID:

Instrument: E.i

Sample Info: IC,,S 5.0

Operator: TINKHAMS



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3695.D
Lab Smp Id: ICIS
Inj Date : 02-NOV-2011 01:32
Operator : TINKHAMS Inst ID: E.i
Smp Info : ICIS,,S 10.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 16:21 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:13 Cal File: E3694.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	59 Fluorobenzene	96	8.166	8.166	(1.000)	1372566	12.5000	
*	85 Chlorobenzene-d5	119	10.469	10.469	(1.000)	269832	12.5000	
*	110 1,4-Dichlorobenzene-d4	152	12.428	12.428	(1.000)	368830	12.5000	
$	49 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.932)	229095	10.0000	10.0144
$	55 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	172834	10.0000	9.57199
$	73 Toluene-d8	98	9.346	9.346	(0.893)	1000304	10.0000	10.4698
$	96 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.916)	254625	10.0000	9.75399
	6 1,2-Dichlorotetrafluoroethane	85	4.469	4.469	(0.547)	188616	10.0000	11.0558
	9 Ethylene Oxide	43	5.042	5.042	(0.617)	782273	1250.00	1254.32
	12 Dichlorofluoromethane	67	5.307	5.307	(0.650)	969199	10.0000	10.1713
	15 1,2-dichloro-1,1,2-trifluoro	117	5.573	5.573	(0.682)	377739	10.0000	10.3231
	16 Ethyl Ether	59	5.600	5.600	(0.686)	133377	10.0000	10.2667
	17 2,2-dichloro-1,1,1-trifluoro	83	5.600	5.600	(0.686)	524361	10.0000	10.2265
	20 Trichlorotrifluoroethane	151	5.852	5.852	(0.717)	326504	10.0000	10.4927
	21 2-propanol	45	5.880	5.880	(0.720)	90936	200.000	214.628
	23 Methyl Acetate	43	6.107	6.107	(0.748)	254654	50.0000	49.5276(Q)
	26 Allyl Chloride	41	6.164	6.164	(0.755)	377631	10.0000	9.95727
	27 Carbon Disulfide	76	6.186	6.186	(0.757)	1332914	10.0000	10.3092
	31 Methyl t-butyl ether	73	6.450	6.450	(0.790)	347761	10.0000	10.0922
	33 Hexane	57	6.658	6.658	(0.636)	439643	10.0000	11.1279
	34 Vinyl acetate	43	6.751	6.751	(0.827)	290277	20.0000	19.7193
	38 ETBE	59	7.051	7.051	(0.863)	2597609	50.0000	52.6811

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
39 Ethyl Acetate	43	7.187	7.187	(0.880)	117508	20.0000	19.8750
41 2-Butanol	45	7.244	7.244	(0.887)	108297	300.000	293.022
48 Tetrahydrofuran	42	7.501	7.501	(0.919)	30467	20.0000	18.9727
52 Cyclohexane	56	7.780	7.780	(0.953)	567647	10.0000	10.3787
57 TAME	73	7.973	7.973	(0.976)	2015886	50.0000	52.7803
62 2-Pentanone	43	8.481	8.481	(1.039)	146916	40.0000	40.4415
65 Methyl Cyclohexane	55	8.638	8.638	(1.058)	461109	10.0000	10.7396
63 Methyl Methacrylate	100	8.567	8.567	(1.049)	36565	20.0000	18.0002
69 2-nitropropane	41	8.953	8.953	(1.096)	53975	10.0000	10.0943
70 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	20868	10.0000	8.66825
75 Ethyl methacrylate	69	9.468	9.468	(0.904)	229443	20.0000	18.5490
82 Tetrahydrothiophene	60	10.061	10.061	(0.961)	33036	10.0000	8.45761
94 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.904)	18167	10.0000	9.83728
98 t-1,4-Dichloro-2-butene	53	11.470	11.470	(0.923)	15366	10.0000	9.91183
112 1,2,3-Trimethylbenzene	105	12.449	12.449	(1.002)	902661	10.0000	10.4518

QC Flag Legend

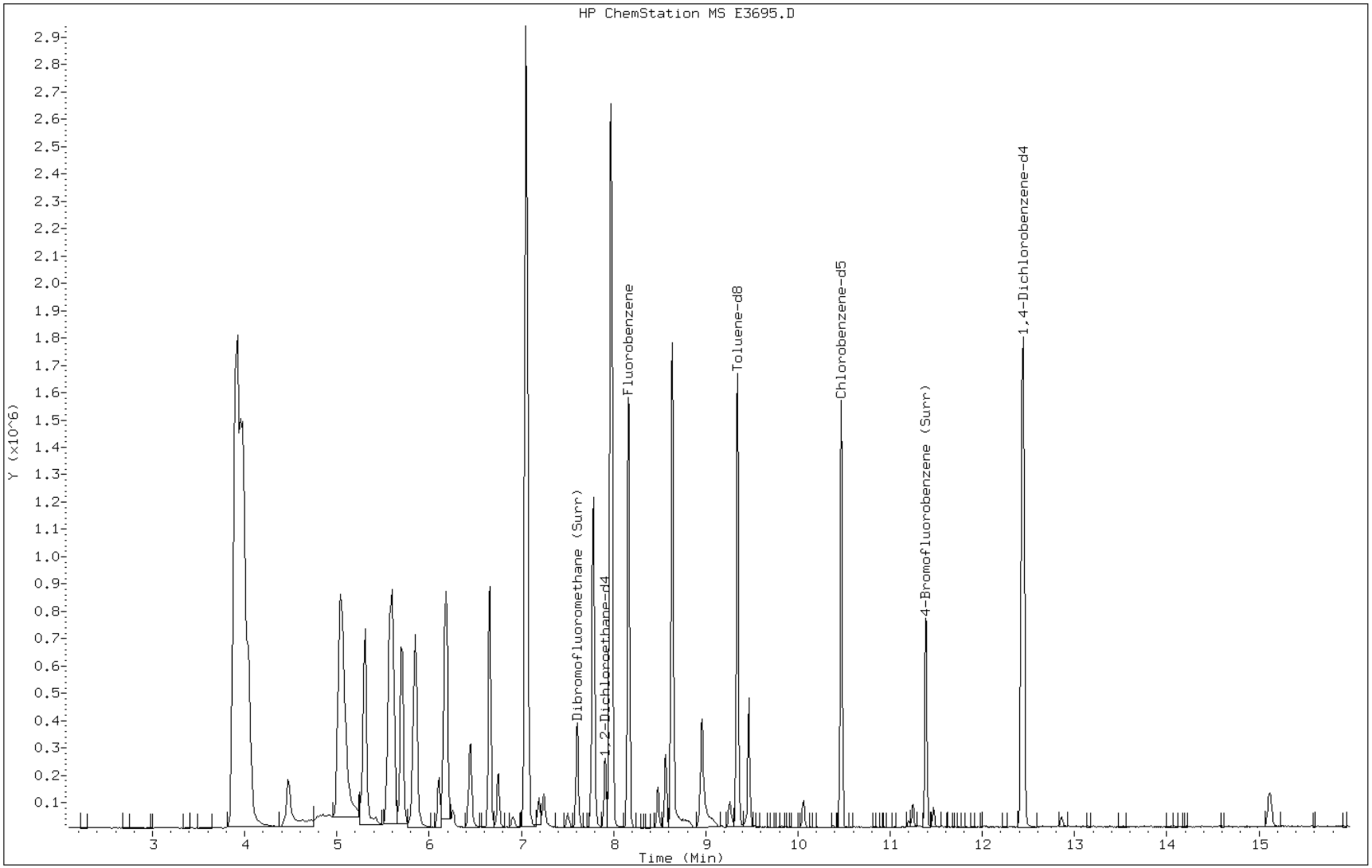
Q - Qualifier signal failed the ratio test.

Data File: E3695.D

Date: 02-NOV-2011 01:32

Client ID: Instrument: E.i

Sample Info: ICIS,,S 10.0 Operator: TINKHAMS



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3696.D
Lab Smp Id: IC
Inj Date : 02-NOV-2011 01:52
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,S 30.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 16:21 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:32 Cal File: E3695.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 59 Fluorobenzene	96	8.160	8.160	(1.000)	1471646	12.5000	
* 85 Chlorobenzene-d5	119	10.469	10.469	(1.000)	289369	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.429	12.429	(1.000)	421889	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.933)	742359	30.0000	30.2660
$ 55 1,2-Dichloroethane-d4	65	7.910	7.910	(0.969)	571202	30.0000	29.5048
$ 73 Toluene-d8	98	9.347	9.347	(0.893)	3381499	30.0000	33.0035
$ 96 4-Bromofluorobenzene (Surr)	95	11.385	11.385	(0.916)	952865	30.0000	31.9110
6 1,2-Dichlorotetrafluoroethane	85	4.481	4.481	(0.549)	505297	30.0000	27.6242
9 Ethylene Oxide	43	5.040	5.040	(0.618)	1976985	3750.00	2956.55
12 Dichlorofluoromethane	67	5.305	5.305	(0.650)	2989600	30.0000	29.2622
15 1,2-dichloro-1,1,2-trifluoro	117	5.571	5.571	(0.683)	1177798	30.0000	30.0206
16 Ethyl Ether	59	5.598	5.598	(0.686)	421442	30.0000	30.2565
17 2,2-dichloro-1,1,1-trifluoro	83	5.612	5.612	(0.688)	1682086	30.0000	30.5968
20 Trichlorotrifluoroethane	151	5.850	5.850	(0.717)	1020859	30.0000	30.5980
21 2-propanol	45	5.878	5.878	(0.720)	280772	600.000	618.064
23 Methyl Acetate	43	6.108	6.108	(0.749)	839228	150.000	152.232
26 Allyl Chloride	41	6.165	6.165	(0.756)	1334238	30.0000	32.8122
27 Carbon Disulfide	76	6.194	6.194	(0.759)	4321017	30.0000	31.1702
31 Methyl t-butyl ether	73	6.451	6.451	(0.791)	1227786	30.0000	33.2322
33 Hexane	57	6.658	6.658	(0.636)	1405618	30.0000	33.1757
34 Vinyl acetate	43	6.751	6.751	(0.827)	971202	60.0000	61.5346
38 ETBE	59	7.052	7.052	(0.864)	8963959	150.000	169.555

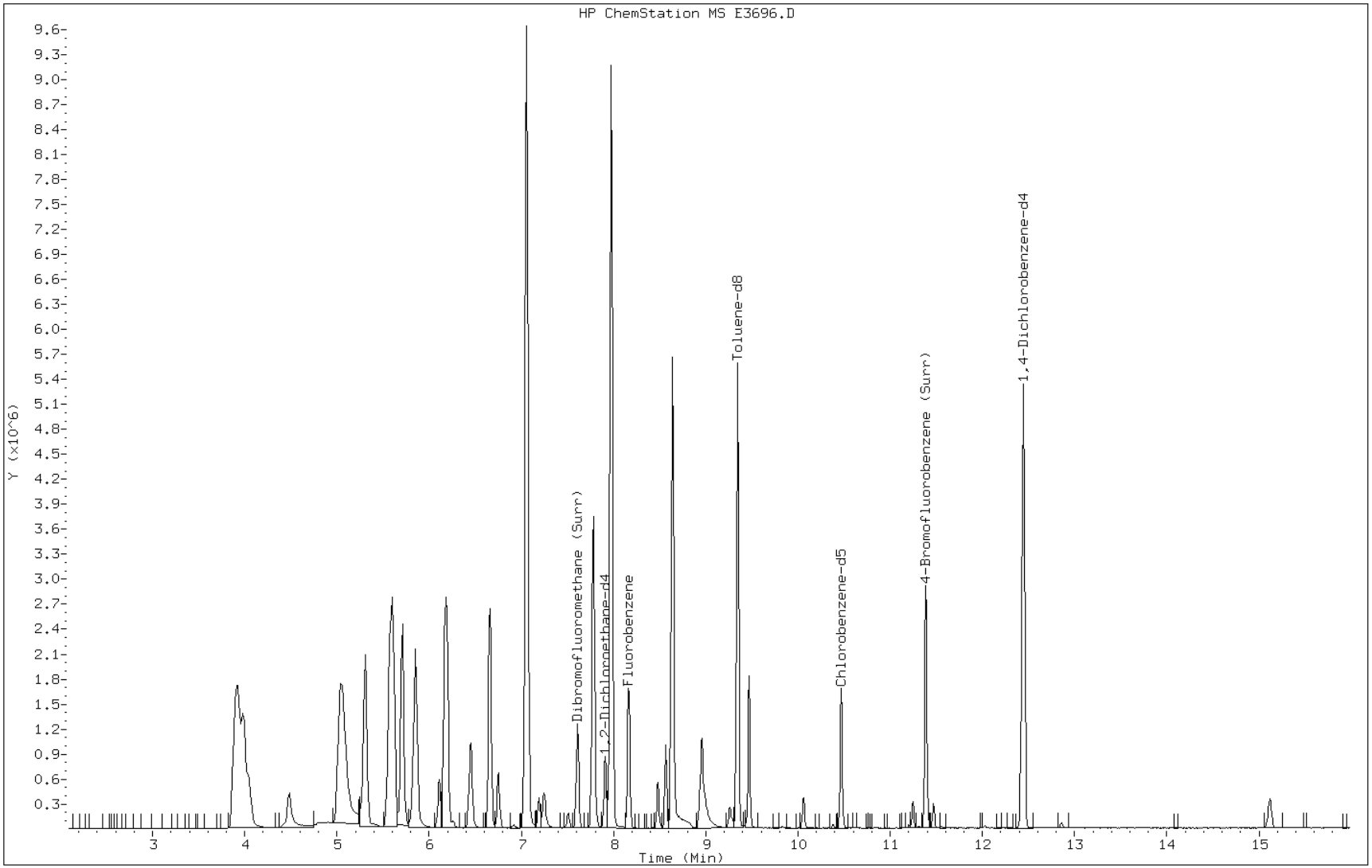
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
39	Ethyl Acetate	43	7.187	7.187	(0.881)	390876	60.0000	61.6607
41	2-Butanol	45	7.245	7.245	(0.888)	400077	900.000	1009.62
48	Tetrahydrofuran	42	7.509	7.509	(0.920)	113325	60.0000	61.0995
52	Cyclohexane	56	7.781	7.781	(0.954)	1831452	30.0000	30.5296
57	TAME	73	7.974	7.974	(0.977)	7147097	150.000	174.528
62	2-Pentanone	43	8.482	8.482	(1.039)	537020	120.000	137.873
65	Methyl Cyclohexane	55	8.639	8.639	(1.059)	1512400	30.0000	32.8535
63	Methyl Methacrylate	100	8.567	8.567	(1.050)	147152	60.0000	64.4051
69	2-nitropropane	41	8.954	8.954	(1.097)	161977	30.0000	29.2957
70	2-Chloroethyl vinyl ether	63	8.932	8.932	(1.095)	107902	30.0000	26.5554
75	Ethyl methacrylate	69	9.468	9.468	(0.904)	896931	60.0000	62.8740
82	Tetrahydrothiophene	60	10.062	10.062	(0.961)	138519	30.0000	29.2533
94	cis-1,4-dichloro-2-butene	53	11.249	11.249	(0.905)	69342	30.0000	32.8259
98	t-1,4-Dichloro-2-butene	53	11.470	11.470	(0.923)	59414	30.0000	33.5050
112	1,2,3-Trimethylbenzene	105	12.450	12.450	(1.002)	3233595	30.0000	32.7326

Data File: E3696.D

Date: 02-NOV-2011 01:52

Client ID: Instrument: E.i

Sample Info: IC,,S 30.0 Operator: TINKHAMS



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3697.D
Lab Smp Id: IC
Inj Date : 02-NOV-2011 02:11
Operator : TINKHAMS Inst ID: E.i
Smp Info : IC,,S 60.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 16:21 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:52 Cal File: E3696.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 59 Fluorobenzene	96	8.159	8.159	(1.000)	1672931	12.5000	
* 85 Chlorobenzene-d5	119	10.469	10.469	(1.000)	328819	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.428	12.428	(1.000)	479243	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.601	7.601	(0.932)	1640415	60.0000	58.8329
$ 55 1,2-Dichloroethane-d4	65	7.909	7.909	(0.969)	1217721	60.0000	55.3319
$ 73 Toluene-d8	98	9.346	9.346	(0.893)	7229057	60.0000	62.0908(A)
$ 96 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.916)	2142660	60.0000	63.1692(A)
6 1,2-Dichlorotetrafluoroethane	85	4.468	4.468	(0.548)	971396	60.0000	46.7159
9 Ethylene Oxide	43	5.040	5.040	(0.618)	2306071	7500.00	3033.75
12 Dichlorofluoromethane	67	5.306	5.306	(0.650)	5804995	60.0000	49.9830
15 1,2-dichloro-1,1,2-trifluoro	117	5.571	5.571	(0.683)	2545109	60.0000	57.0665
16 Ethyl Ether	59	5.599	5.599	(0.686)	944519	60.0000	59.6509
17 2,2-dichloro-1,1,1-trifluoro	83	5.599	5.599	(0.686)	3594756	60.0000	57.5206
20 Trichlorotrifluoroethane	151	5.850	5.850	(0.717)	2193013	60.0000	57.8221
21 2-propanol	45	5.878	5.878	(0.720)	567202	1200.00	1098.36
23 Methyl Acetate	43	6.107	6.107	(0.749)	1806089	300.000	288.198
26 Allyl Chloride	41	6.164	6.164	(0.756)	2938611	60.0000	63.5726(A)
27 Carbon Disulfide	76	6.186	6.186	(0.758)	9080714	60.0000	57.6234
31 Methyl t-butyl ether	73	6.443	6.443	(0.790)	2718944	60.0000	64.7383(A)
33 Hexane	57	6.650	6.650	(0.635)	3011448	60.0000	62.5495(A)
34 Vinyl acetate	43	6.743	6.743	(0.826)	2476062	120.000	138.006(A)
38 ETBE	59	7.051	7.051	(0.864)	17720604	300.000	294.859

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
39	Ethyl Acetate	43	7.187	7.187	(0.881)	871008	120.000	120.870(A)
41	2-Butanol	45	7.244	7.244	(0.888)	922863	1800.00	2048.69(A)
48	Tetrahydrofuran	42	7.501	7.501	(0.919)	252167	120.000	117.768
52	Cyclohexane	56	7.780	7.780	(0.954)	3919700	60.0000	57.1701
57	TAME	73	7.973	7.973	(0.977)	14710074	300.000	315.992(A)
62	2-Pentanone	43	8.481	8.481	(1.039)	1197486	240.000	270.448(A)
65	Methyl Cyclohexane	55	8.638	8.638	(1.059)	3294983	60.0000	62.9642(A)
63	Methyl Methacrylate	100	8.567	8.567	(1.050)	337567	120.000	128.801(A)
69	2-nitropropane	41	8.953	8.953	(1.097)	226321	60.0000	36.1410(Q)
70	2-Chloroethyl vinyl ether	63	8.931	8.931	(1.095)	312121	60.0000	61.4114(A)
75	Ethyl methacrylate	69	9.468	9.468	(0.904)	2037590	120.000	123.906(A)
82	Tetrahydrothiophene	60	10.054	10.054	(0.960)	340919	60.0000	61.8309(A)
94	cis-1,4-dichloro-2-butene	53	11.248	11.248	(0.905)	157951	60.0000	65.8241(A)
98	t-1,4-Dichloro-2-butene	53	11.470	11.470	(0.923)	136610	60.0000	67.8182(A)
112	1,2,3-Trimethylbenzene	105	12.449	12.449	(1.002)	7133565	60.0000	63.5687(A)

QC Flag Legend

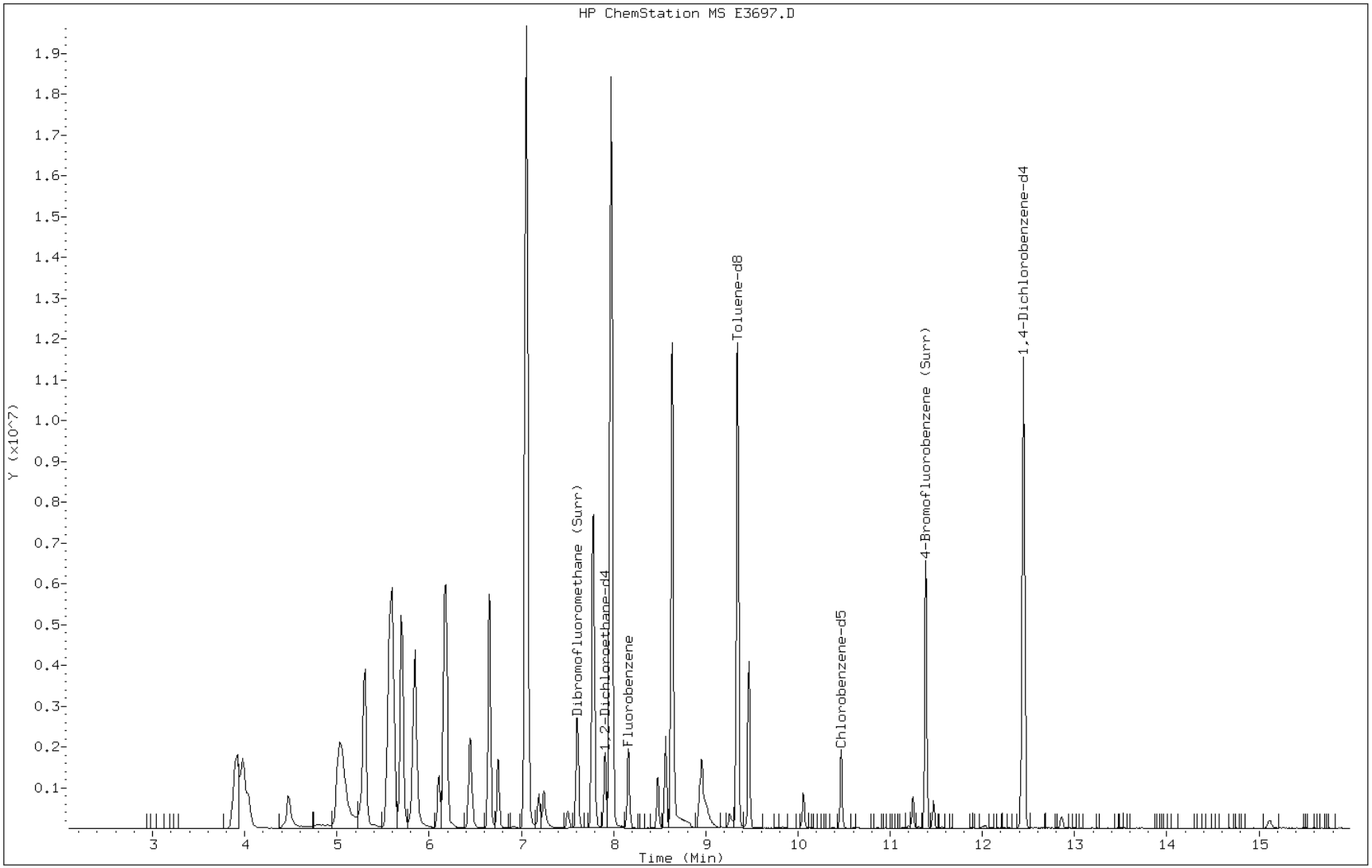
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: E3697.D

Date: 02-NOV-2011 02:11

Client ID: Instrument: E.i

Sample Info: IC,,S 60.0 Operator: TINKHAMS



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-97801/2	E4602.D
Level 2	IC 280-97801/3	E4603.D
Level 3	IC 280-97801/4	E4604.D
Level 4	IC 280-97801/5	E4605.D
Level 5	IC 280-97801/6	E4606.D
Level 6	IC 280-97801/7	E4607.D
Level 7	IC 280-97801/8	E4608.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethene, Total	0.3164 0.2858	0.2982 0.2904	0.2841	0.2940	0.3059	Ave		0.2964				3.9		15.0			
Xylenes, Total	2.1548 2.2542	2.3350 2.1575	2.2785	2.3460	2.4633	Ave		2.2842				4.8		15.0			
Chlorotrifluoroethene	+++++ 0.1014	0.0597 0.1078	0.0568	0.0968	0.1050	Lin1	0.0474	0.1076							0.9983		0.9900
Ethanol	+++++ 0.0009	+++++ 0.0010	0.0008	0.0009	0.0009	Ave		0.0009				8.4		15.0			
Dichlorodifluoromethane	+++++ 0.2802	0.2154 0.2837	0.1894	0.2702	0.2970	Lin1	0.0279	0.2868							0.9986		0.9900
Chloromethane	+++++ 0.2231	0.2426 0.2258	0.2100	0.2379	0.2371	Ave		0.2294			0.1000	5.3		15.0			
Vinyl chloride	+++++ 0.2325	0.2350 0.2344	0.2231	0.2443	0.2488	Ave		0.2363				3.8		30.0			
2-Chloro-1,1,1-Trifluoroethane	+++++ 0.3017	0.3223 0.3091	0.3115	0.3205	0.3322	Ave		0.3162				3.4		15.0			
Bromomethane	+++++ 0.1800	0.1791 0.1774	0.1681	0.1857	0.1964	Ave		0.1811				5.2		15.0			
Chloroethane	+++++ 0.1978	0.2052 0.1936	0.1973	0.2059	0.2104	Ave		0.2017				3.2		15.0			
Trichlorofluoromethane	+++++ 0.3934	0.3914 0.4025	0.3675	0.4006	0.4160	Ave		0.3952				4.1		15.0			
Acrolein	+++++ 0.0135	0.0130 0.0143	0.0120	0.0129	0.0136	Ave		0.0132				6.0		15.0			
Acetone	+++++ 0.0226	0.0403 0.0228	0.0279	0.0264	0.0231	Lin2	-0.250	0.0220							0.9938		0.9900
1,1-Dichloroethene	+++++ 0.2532	0.2812 0.2951	0.2971	0.2917	0.3011	Ave		0.2866				6.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Iodomethane	+++++ 0.3461	0.3456 0.3596	0.3205	0.3477	0.3682	Ave		0.3480				4.6		15.0			
Acetonitrile	+++++ 0.0085	+++++ 0.0091	0.0081	0.0079	0.0092	Ave		0.0085				6.9		15.0			
2-Butanone (MEK)	+++++ 0.0359	0.0355 0.0366	0.0343	0.0356	0.0370	Ave		0.0358				2.7		15.0			
Tert-butyl alcohol (2-methyl-2-propanol)	+++++ 0.0073	+++++ 0.0077	0.0058	0.0068	0.0076	Ave		0.0070				11.3		15.0			
2,2-Dichloropropane	+++++ 0.3779	0.4094 0.3798	0.3822	0.3938	0.4114	Ave		0.3924				3.8		15.0			
Methylene Chloride	+++++ 0.2279	+++++ 0.2339	0.2719	0.2525	0.2529	Ave		0.2478				7.0		15.0			
Acrylonitrile	+++++ 0.0299	0.0278 0.0310	0.0271	0.0290	0.0314	Ave		0.0294				5.9		15.0			
trans-1,2-Dichloroethene	+++++ 0.2880	0.2992 0.2933	0.2845	0.2950	0.3066	Ave		0.2944				2.7		15.0			
Isopropyl ether	+++++ 0.1908	0.1890 0.1863	0.1873	0.1993	0.2093	Ave		0.1937				4.6		15.0			
1,1-Dichloroethane	+++++ 0.4709	0.4803 0.4712	0.4645	0.4856	0.5108	Ave		0.4806			0.1000	3.5		15.0			
Chloroprene	+++++ 0.5002	0.4944 0.5019	0.4970	0.5185	0.5478	Ave		0.5100				4.0		15.0			
cis-1,2-Dichloroethene	+++++ 0.2837	0.2971 0.2876	0.2837	0.2930	0.3052	Ave		0.2917				2.9		15.0			
Propionitrile	+++++ 0.0107	0.0098 0.0112	0.0099	0.0103	0.0112	Ave		0.0105				5.7		15.0			
Methacrylonitrile	+++++ 0.0545	0.0521 0.0552	0.0521	0.0538	0.0576	Ave		0.0542				3.8		15.0			
1,4-Dioxane	+++++ 0.0009	+++++ 0.0009	0.0007	0.0007	0.0008	Ave		0.0008				11.8		15.0			
Bromochloromethane	+++++ 0.0893	0.0876 0.0944	0.0894	0.0891	0.0943	Ave		0.0907				3.2		15.0			
Chloroform	0.4106 0.4163	0.4117 0.4183	0.4046	0.4291	0.4476	Ave		0.4197				3.4		30.0			
Isobutyl alcohol	+++++ 0.0025	+++++ 0.0026	0.0027	0.0025	0.0028	Ave		0.0026				4.9		15.0			
1,1,1-Trichloroethane	+++++ 0.4002	0.4159 0.4119	0.3888	0.4135	0.4279	Ave		0.4097				3.3		15.0			
1,1-Dichloropropene	+++++ 0.4188	0.4341 0.4181	0.4258	0.4330	0.4522	Ave		0.4303				2.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	+++++ 0.3506	0.3374 0.3616	0.3268	0.3490	0.3686	Ave		0.3490				4.4		15.0			
1,2-Dichloroethane	0.3875 0.2024	0.2292 0.2091	0.2121	0.2095	0.2187	Lin1	-0.017	0.2063							0.9992		0.9900
Benzene	1.0765 1.1063	1.1688 1.0858	1.1261	1.1675	1.2229	Ave		1.1363				4.6		15.0			
n-Butanol	+++++ 0.0035	+++++ 0.0038	0.0045	0.0038	0.0038	Ave		0.0039				9.2		15.0			
Trichloroethene	+++++ 0.2838	0.2842 0.2913	0.2800	0.2928	0.3048	Ave		0.2895				3.1		15.0			
1,2-Dichloropropane	+++++ 0.2383	0.2415 0.2454	0.2342	0.2384	0.2559	Ave		0.2423				3.2		30.0			
Dibromomethane	+++++ 0.0806	0.0782 0.0844	0.0752	0.0799	0.0862	Ave		0.0807				5.0		15.0			
Bromodichloromethane	0.2031 0.2574	0.2365 0.2673	0.2452	0.2528	0.2697	Ave		0.2474				9.2		15.0			
cis-1,3-Dichloropropene	0.2817 0.3323	0.3121 0.3406	0.3092	0.3227	0.3467	Ave		0.3208				6.9		15.0			
4-Methyl-2-pentanone	+++++ 0.0830	0.0762 0.0838	0.0812	0.0806	0.0865	Ave		0.0819				4.2		15.0			
Toluene	+++++ 1.1752	1.3162 1.1338	1.2464	1.2662	1.3121	Ave		1.2417				5.9		30.0			
trans-1,3-Dichloropropene	+++++ 0.2429	0.2209 0.2526	0.2158	0.2333	0.2508	Ave		0.2360				6.5		15.0			
Bromoform	+++++ 0.2691	0.1987 0.2806	0.2185	0.2402	0.2653	Ave		0.2454			0.1000	13.0		15.0			
1,1,2-Trichloroethane	+++++ 0.1191	0.1146 0.1243	0.1119	0.1153	0.1262	Ave		0.1185				4.8		15.0			
2-Hexanone	+++++ 0.2444	0.2427 0.2425	0.2246	0.2447	0.2537	Ave		0.2421				3.9		15.0			
1,3-Dichloropropane	0.9962 0.9924	0.9473 0.9832	0.9507	1.0019	1.0606	Ave		0.9903				3.8		15.0			
Tetrachloroethene	+++++ 1.0111	1.0023 1.0234	0.9661	1.0099	1.0648	Ave		1.0129				3.2		15.0			
1,2,3-Trichloropropane	+++++ 0.1039	0.0738 0.1064	0.0930	0.1042	0.1140	Ave		0.0992				14.2		15.0			
Dibromochloromethane	0.4190 0.6186	0.4887 0.6303	0.5159	0.5780	0.6305	Lin1	0.0126	0.6274							0.9994		0.9900
1,2-Dibromoethane (EDB)	+++++ 0.4751	0.4600 0.4800	0.4449	0.4664	0.4849	Ave		0.4685				3.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Chlorohexane	+++++ 1.9391	1.9806 1.9054	1.9136	2.0011	2.0968	Ave		1.9728				3.6		15.0			
Chlorobenzene	2.7898 2.9792	3.0357 2.9318	2.8834	3.0810	3.2375	Ave		2.9912			0.3000	4.9		15.0			
Ethylbenzene	+++++ 1.9066	1.9235 1.8903	1.8740	1.9488	2.0685	Ave		1.9353				3.6		30.0			
1,1,1,2-Tetrachloroethane	0.7785 0.9125	0.8392 0.9203	0.8395	0.8864	0.9428	Ave		0.8742				6.6		15.0			
m-Xylene & p-Xylene	+++++ 2.3089	2.3621 2.1846	2.3511	2.4202	2.5307	Ave		2.3596				4.9		15.0			
o-Xylene	+++++ 2.1448	2.2809 2.1034	2.1333	2.1975	2.3286	Ave		2.1981				4.1		15.0			
Styrene	+++++ 3.2818	3.1145 3.1991	3.1741	3.2961	3.5311	Ave		3.2661				4.5		15.0			
Isopropylbenzene	+++++ 4.0316	4.3009 3.7585	4.1627	4.3624	4.4213	Ave		4.1729				5.9		15.0			
Cyclohexanone	+++++ 0.0123	+++++ 0.0121	0.0115	0.0112	0.0120	Ave		0.0118				4.0		15.0			
1,1,2,2-Tetrachloroethane	0.3146 0.3835	0.3606 0.3847	0.3570	0.3673	0.3903	Ave		0.3654			0.3000	7.1		15.0			
n-Propylbenzene	+++++ 1.2616	1.2706 1.2630	1.2337	1.3169	1.3454	Ave		1.2819				3.2		15.0			
Bromobenzene	+++++ 0.7479	0.7351 0.7700	0.7068	0.7509	0.7858	Ave		0.7494				3.7		15.0			
1,3,5-Trimethylbenzene	+++++ 3.5437	3.5916 3.3677	3.5479	3.7728	3.8521	Ave		3.6127				4.8		15.0			
2-Chlorotoluene	+++++ 0.9574	0.9260 0.9563	0.9418	0.9732	1.0038	Ave		0.9597				2.8		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.0547	+++++ 0.0592	0.0446	0.0508	0.0526	Ave		0.0524				10.3		15.0			
4-Chlorotoluene	+++++ 0.9450	0.9498 0.9542	0.9075	0.9574	1.0020	Ave		0.9527				3.2		15.0			
tert-Butylbenzene	+++++ 3.6436	3.7885 3.5326	3.6694	3.7791	3.9146	Ave		3.7213				3.6		15.0			
1,2,4-Trimethylbenzene	+++++ 3.4652	3.5838 3.3333	3.4707	3.6682	3.7562	Ave		3.5462				4.3		15.0			
sec-Butylbenzene	+++++ 1.0141	1.0045 1.0202	0.9814	1.0415	1.0794	Ave		1.0235				3.3		15.0			
4-Isopropyltoluene	+++++ 3.9744	4.1010 3.8005	4.0394	4.2186	4.3651	Ave		4.0832				4.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	+++++ 1.5986	1.6051 1.6332	1.5483	1.6223	1.7098	Ave		1.6195				3.3		15.0			
1,4-Dichlorobenzene	1.4602 1.5259	1.6238 1.5730	1.5458	1.5785	1.6148	Ave		1.5603				3.6		15.0			
n-Butylbenzene	+++++ 3.9106	4.2008 3.7331	4.0456	4.2075	4.3242	Ave		4.0703				5.4		15.0			
1,2-Dichlorobenzene	+++++ 1.2700	1.2762 1.3091	1.2845	1.2966	1.3676	Ave		1.3007				2.7		15.0			
1,2,4-Trichlorobenzene	+++++ 0.8612	0.8616 0.9314	0.8338	0.8741	0.9099	Ave		0.8787				4.1		15.0			
Hexachlorobutadiene	0.5140 0.6156	0.6327 0.6731	0.6169	0.6239	0.6698	Ave		0.6209				8.5		15.0			
Naphthalene	+++++ 1.2030	1.1761 1.2997	1.1389	1.1882	1.2793	Ave		1.2142				5.1		15.0			
1,2,3-Trichlorobenzene	+++++ 0.6630	0.6717 0.7254	0.6606	0.6648	0.7104	Ave		0.6827				4.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-97801/2	E4602.D
Level 2	IC 280-97801/3	E4603.D
Level 3	IC 280-97801/4	E4604.D
Level 4	IC 280-97801/5	E4605.D
Level 5	IC 280-97801/6	E4606.D
Level 6	IC 280-97801/7	E4607.D
Level 7	IC 280-97801/8	E4608.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethene, Total	FB	Ave	26878 2294434	76371 4585299	148975	381368	797524	0.600 60.0	2.00 120	4.00	10.0	20.0
Xylenes, Total	CBZ	Ave	61693 6209523	203904 12190245	407165	1040290	2210840	0.900 90.0	3.00 180	6.00	15.0	30.0
Chlorotrifluoroethene	FB	Lin1	+++++ 406891	7645 851101	14892	62770	136919	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Ethanol	FB	Ave	+++++ 188242	+++++ 398151	10480	28787	58503	+++++ 1500	+++++ 3000	100	250	500
Dichlorodifluoromethane	FB	Lin1	+++++ 1124714	27587 2239429	49654	175246	387193	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloromethane	FB	Ave	+++++ 895424	31074 1782614	55066	154292	309123	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	+++++ 932969	30099 1850322	58498	158409	324295	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Chloro-1,1,1-Trifluoroethane	FB	Ave	+++++ 1211051	41274 2440239	81667	207826	433004	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromomethane	FB	Ave	+++++ 722309	22935 1400029	44075	120444	256037	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloroethane	FB	Ave	+++++ 793922	26276 1528272	51739	133519	274273	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	+++++ 1578970	50131 3177313	96345	259809	542322	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acrolein	FB	Ave	+++++ 543531	16630 1129603	31368	83934	176673	+++++ 300	10.0 600	20.0	50.0	100
Acetone	FB	Lin2	+++++ 362730	20644 718529	29257	68545	120620	+++++ 120	4.00 240	8.00	20.0	40.0
1,1-Dichloroethene	FB	Ave	+++++ 1016344	36014 2329670	77897	189164	392444	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Iodomethane	FB	Ave	+++++ 1389044	44264 2838356	84043	225499	479932	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	+++++ 340064	+++++ 714731	21226	51071	120469	+++++ 300	+++++ 600	20.0	50.0	100
2-Butanone (MEK)	FB	Ave	+++++ 575826	18182 1155091	35941	92234	192879	+++++ 120	4.00 240	8.00	20.0	40.0
Tert-butyl alcohol (2-methyl-2-propanol)	FB	Ave	+++++ 582535	+++++ 1214786	30245	87706	199241	+++++ 600	+++++ 1200	40.0	100	200
2,2-Dichloropropane	FB	Ave	+++++ 1516724	52428 2997624	100204	255386	536229	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methylene Chloride	FB	Ave	+++++ 914686	+++++ 1846562	71277	163761	329611	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
Acrylonitrile	FB	Ave	+++++ 1200237	35569 2444949	71056	188284	409592	+++++ 300	10.0 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	+++++ 1155803	38320 2315057	74582	191345	399640	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	+++++ 3828984	121019 7351582	245533	646390	1364329	+++++ 150	5.00 300	10.0	25.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1889820	61510 3719714	121796	314938	665803	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloroprene	FB	Ave	+++++ 2007470	63318 3961627	130302	336285	714029	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 1138631	38051 2270242	74393	190023	397884	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Propionitrile	FB	Ave	+++++ 430619	12554 880846	25875	67066	145417	+++++ 300	10.0 600	20.0	50.0	100
Methacrylonitrile	FB	Ave	+++++ 2186315	66664 4357141	136658	348724	750688	+++++ 300	10.0 600	20.0	50.0	100
1,4-Dioxane	FB	Ave	+++++ 172800	+++++ 358256	9170	22817	54573	+++++ 1500	+++++ 3000	100	250	500
Bromochloromethane	FB	Ave	+++++ 358260	11223 745194	23449	57780	122879	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	17437 1671043	52732 3302125	106069	278272	583430	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 199641	+++++ 417512	14224	32934	73228	+++++ 600	+++++ 1200	40.0	100	200
1,1,1-Trichloroethane	FB	Ave	+++++ 1606285	53268 3251186	101937	268184	557757	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	+++++ 1681021	55600 3300408	111629	280823	589442	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 1407352	43211 2853952	85694	226353	480532	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Lin1	16458 812365	29358 1650927	55620	135869	285102	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	45716 4440292	149691 8570528	295236	757147	1594112	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butanol	FB	Ave	+++++ 283237	+++++ 592698	23415	48952	97890	+++++ 600	+++++ 1200	40.0	100	200
Trichloroethene	FB	Ave	+++++ 1138991	36401 2299320	73416	189894	397291	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	+++++ 956294	30932 1937281	61397	154624	333568	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	+++++ 323456	10012 665922	19720	51802	112327	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	8627 1033281	30288 2110079	64276	163936	351546	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	11964 1333797	39976 2688845	81073	209290	451936	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Methyl-2-pentanone	FB	Ave	+++++ 1332376	39049 2645621	85168	209196	450824	+++++ 120	4.00 240	8.00	20.0	40.0
Toluene	FB	Ave	+++++ 4716933	168559 8949316	326785	821193	1710426	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	+++++ 975023	28295 1993957	56568	151279	326875	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromoform	CBZ	Ave	+++++ 247100	5783 528396	13017	35509	79380	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloroethane	FB	Ave	+++++ 477860	14673 980953	29338	74763	164493	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Hexanone	CBZ	Ave	+++++ 897720	28256 1826560	53510	144705	303616	+++++ 120	4.00 240	8.00	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	9507 911256	27573 1851705	56626	148090	317294	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	+++++ 928383	29175 1927517	57543	149279	318553	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 127672	2896 270953	7464	20442	46249	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromochloromethane	CBZ	Lin1	3999 567976	14226 1187181	30732	85441	188628	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromoethane (EDB)	CBZ	Ave	+++++ 436270	13389 904055	26499	68937	145069	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	+++++ 1780530	57652 3588635	113982	295784	627284	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	26624 2735631	88363 5521747	171752	455414	968556	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	+++++ 1750693	55988 3560109	111628	288062	618819	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBZ	Ave	7430 837891	24427 1733229	50002	131014	282070	0.300 30.0	1.00 60.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	+++++ 4240145	137511 8228702	280092	715471	1514203	+++++ 60.0	2.00 120	4.00	10.0	20.0
o-Xylene	CBZ	Ave	+++++ 1969378	66393 3961543	127073	324819	696637	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Styrene	CBZ	Ave	+++++ 3013465	90657 6025071	189063	487198	1056401	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	+++++ 4955286	168690 9575691	334200	855976	1793824	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexanone	CBZ	Ave	+++++ 453209	+++++ 915168	27401	66099	143291	+++++ 1200	+++++ 2400	80.0	200	400
1,1,2,2-Tetrachloroethane	DCB	Ave	3929 471361	14144 980148	28662	72079	158356	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Propylbenzene	DCB	Ave	+++++ 1550638	49836 3217665	99043	258397	545871	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	+++++ 919300	28833 1961654	56741	147339	318822	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	+++++ 4355685	140870 8579988	284843	740284	1562898	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	+++++ 1176759	36318 2436499	75611	190959	407249	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 67244	+++++ 150807	3578	9958	21353	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	+++++ 1161525	37254 2431055	72855	187860	406531	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	+++++ 4478501	148595 9000061	294594	741507	1588230	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	+++++ 4259190	140563 8492418	278645	719749	1523998	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	+++++ 1246465	39397 2599120	78795	204348	437928	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	+++++ 4884979	160850 9682694	324299	827751	1771039	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	+++++ 1964858	62954 4160840	124303	318327	693690	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	18238 1875484	63689 4007573	124103	309727	655160	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	+++++ 4806600	164763 9510899	324798	825575	1754427	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	+++++ 1561029	50057 3335231	103126	254408	554870	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 10:19 Calibration End Date: 11/28/2011 12:14 Calibration ID: 7917

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 1058509	33794 2373055	66943	171510	369154	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	6420 756625	24816 1714824	49529	122417	271757	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Naphthalene	DCB	Ave	+++++ 1478645	46131 3311289	91438	233150	519024	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	+++++ 814875	26345 1848210	53035	130444	288243	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4602.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 10:19
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,M0.3
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.167	8.166	(1.000)	1769548	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	397643	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	520424	12.5000	(Q)
M 1 1,2-Dichloroethene (total)	96				26878	0.60000	0.647983(a)
M 2 Xylene (total)	106				61693	0.90000	0.840143(a)
M 3 1,3-Dichloropropene (total)	75				20052	0.60000	0.505510(a)
M 4 Trihalomethanes (total)	83				30063	1.20000	0.897075(a)
5 Chlorotrifluoroethene	116	Compound Not Detected.					
6 dichlorodifluoromethane	85	4.327	4.329	(0.530)	8989	0.30000	0.570181(aQ)
8 Chloromethane	50	4.551	4.581	(0.557)	13248	0.30000	0.407875(a)
9 Vinyl Chloride	62	4.718	4.734	(0.578)	9437	0.30000	0.282062(aQ)
10 2-Chloro-1,1,1-trifluoroethan	118	4.760	4.776	(0.583)	14317	0.30000	0.319830(a)
12 Bromomethane	94	5.095	5.111	(0.624)	7422	0.30000	0.289486(aQ)
15 Trichlorofluoromethane	101	5.472	5.474	(0.670)	15162	0.30000	0.270979(a)
16 Ethanol	45	Compound Not Detected.					
20 Acrolein	56	5.766	5.768	(0.706)	4723	3.00000	2.52439(a)
24 1,1-Dichloroethene	96	5.919	5.935	(0.725)	11081	0.30000	0.273147(a)
25 Iodomethane	142	6.093	6.115	(0.746)	13264	0.30000	0.269278(a)
30 tert-Butyl alcohol	59	6.215	6.222	(0.761)	4674	6.00000	4.70006(aQ)
31 Methylene Chloride	84	6.272	6.279	(0.768)	24923	0.30000	0.710438(a)
32 Acrylonitrile	53	6.429	6.429	(0.787)	10135	3.00000	2.43781(a)
34 trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	12794	0.30000	0.306956(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
37	Isopropyl ether	87	6.772	6.773	(0.829)	36594	1.50000	1.33473(a)
38	1,1-Dichloroethane	63	6.830	6.830	(0.836)	19160	0.30000	0.281646(a)
39	Chloroprene	53	6.901	6.901	(0.845)	19111	0.30000	0.264727(a)
42	2-Butanone	43	Compound Not Detected.					
45	cis-1,2-Dichloroethene	96	7.266	7.273	(0.890)	14084	0.30000	0.341027(a)
46	2,2-Dichloropropane	77	Compound Not Detected.					
47	Methacrylonitrile	41	7.402	7.402	(0.906)	19764	5.00000	2.57581(a)
48	Bromochloromethane	128	7.473	7.473	(0.915)	3441	0.30000	0.268045(a)
49	Chloroform	83	7.480	7.481	(0.916)	17437	0.30000	0.293449(a)
53	1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	15479	0.30000	0.266882(a)
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	16842	0.30000	0.276457(a)
56	Carbon Tetrachloride	117	7.845	7.852	(0.961)	13507	0.30000	0.273374(a)
58	1,2-Dichloroethane	62	7.974	7.974	(0.976)	16458	0.30000	0.353312(a)
60	Benzene	78	7.995	7.995	(0.979)	45716	0.30000	0.284209(a)
62	n-Butanol	56	8.167	8.174	(1.000)	11308	10.0000	20.7188(aQ)
63	Trichloroethene	95	8.445	8.446	(1.034)	11567	0.30000	0.282256(a)
66	1,2-Dichloropropane	63	8.624	8.632	(1.056)	9312	0.30000	0.271497(a)
68	1,4-Dioxane	88	Compound Not Detected.					
69	Dibromomethane	93	8.739	8.732	(1.070)	2491	0.30000	0.217960(aQ)
70	Bromodichloromethane	83	8.803	8.796	(1.078)	8627	0.30000	0.246294(aQ)
73	cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	11964	0.30000	0.263463(aQ)
74	4-Methyl-2-pentanone	43	9.160	9.161	(1.122)	12256	1.20000	1.05726(a)
76	Toluene	91	9.396	9.397	(1.151)	72157	0.30000	0.410512(a)
79	1,1,2-Trichloroethane	97	9.654	9.661	(1.182)	4728	0.30000	0.281734(a)
80	2-Hexanone	43	9.761	9.769	(0.932)	8629	1.20000	1.12042(a)
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	9507	0.30000	0.301779(a)
82	Tetrachloroethene	164	9.825	9.826	(0.939)	8443	0.30000	0.262020(a)
83	Dibromochloromethane	129	10.004	10.005	(0.956)	3999	0.30000	0.357332(aQ)
85	1,2-Dibromoethane	107	10.147	10.140	(0.969)	4184	0.30000	0.280708(a)
86	1-Chlorohexane	91	10.362	10.362	(0.990)	18882	0.30000	0.300878(aQ)
88	Chlorobenzene	112	10.498	10.491	(1.003)	26624	0.30000	0.279797(aQ)
89	1,1,1,2-Tetrachloroethane	131	10.533	10.527	(1.006)	7430	0.30000	0.267184(a)
90	Ethylbenzene	106	10.526	10.527	(1.005)	16836	0.30000	0.273471(a)
91	m and p-Xylene	106	10.605	10.605	(1.013)	43050	0.60000	0.573526(a)
92	o-Xylene	106	10.941	10.941	(1.045)	18643	0.30000	0.266617(a)
93	Styrene	104	10.941	10.941	(1.045)	26381	0.30000	0.253909(a)
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	11.213	11.213	(0.903)	51136	0.30000	0.294335(a)
99	1,1,2,2-Tetrachloroethane	83	11.427	11.435	(0.920)	3929	0.30000	0.258240(aQ)
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	11.570	11.570	(0.931)	8554	0.30000	0.274158(a)
102	n-Propylbenzene	120	11.556	11.556	(0.930)	15133	0.30000	0.283556(a)
105	2-Chlorotoluene	126	11.699	11.692	(0.942)	10831	0.30000	0.271060(a)
104	1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	42550	0.30000	0.282896(a)
106	4-Chlorotoluene	126	11.770	11.778	(0.948)	10647	0.30000	0.268440(a)
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	42893	0.30000	0.276850(a)
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	41521	0.30000	0.281224(a)
109	sec-Butylbenzene	134	12.185	12.185	(0.981)	12166	0.30000	0.285504(a)
110	4-Isopropyltoluene	119	12.285	12.285	(0.989)	50567	0.30000	0.297456(a)
111	1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	18900	0.30000	0.280301(a)
113	1,4-dichlorobenzene	146	12.442	12.450	(1.002)	18238	0.30000	0.280755(a)
115	n-Butylbenzene	91	12.678	12.679	(1.021)	48017	0.30000	0.283349(a)
116	1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	15330	0.30000	0.283090(a)
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
118 1,2,4-Trichlorobenzene	180	14.723	14.724	(1.185)	9879	0.30000	0.270047(a)
119 Hexachlorobutadiene	225	14.881	14.881	(1.198)	6420	0.30000	0.248369(a)
120 Naphthalene	128	15.131	15.138	(1.218)	13926	0.30000	0.275476(a)
121 1,2,3-Trichlorobenzene	180	15.495	15.496	(1.248)	7447	0.30000	0.262019(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4602.D

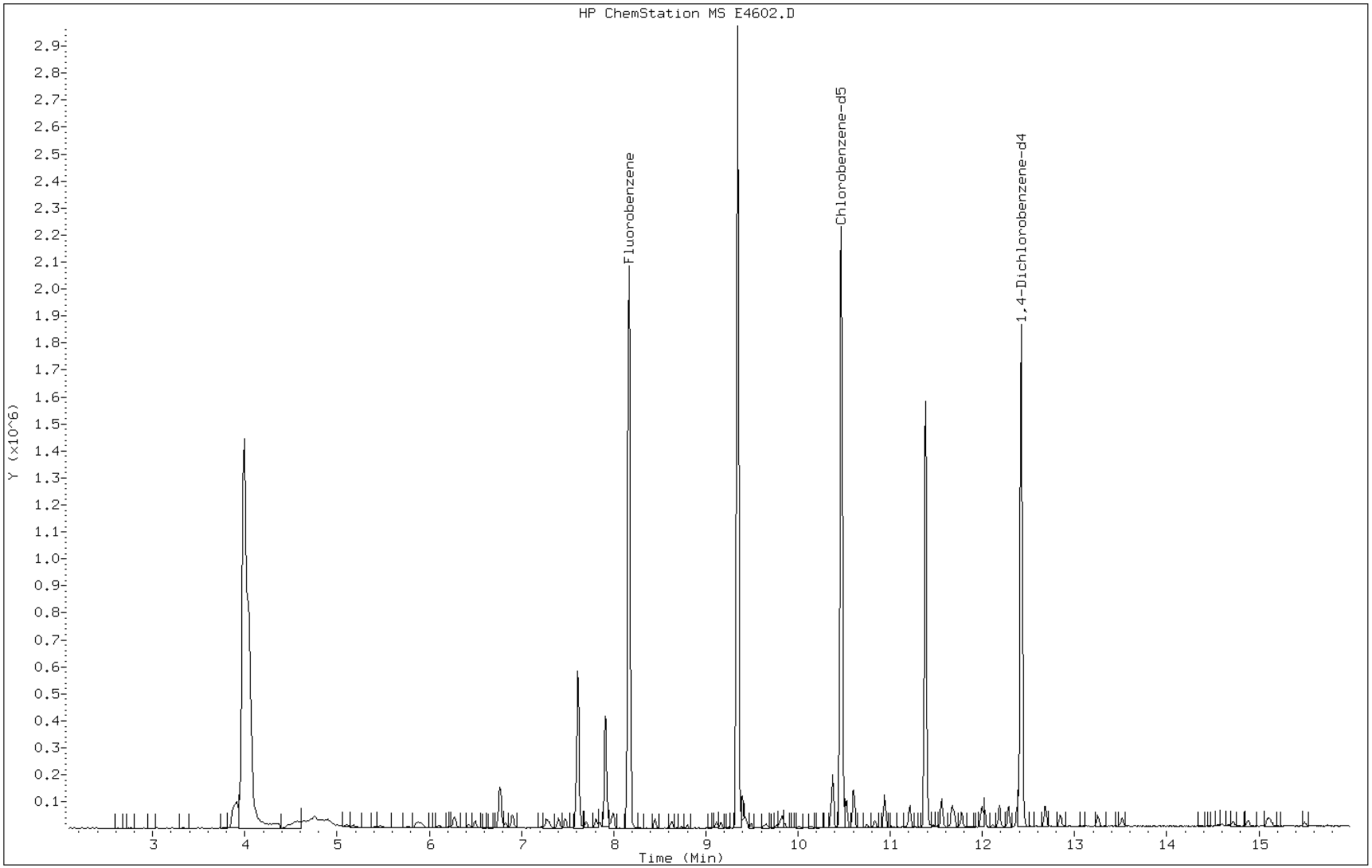
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Client ID: IC

Instrument: E.i

Sample Info: IC,,M0.3

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4603.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 10:38
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,M1.0
Misc Info :
Comment :
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Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 61	Fluorobenzene	96	8.166	8.166	(1.000)	1600862	12.5000	
* 87	Chlorobenzene-d5	119	10.469	10.469	(1.000)	363851	12.5000	
* 112	1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	490278	12.5000	(Q)
M 1	1,2-Dichloroethene (total)	96				76371	2.00000	2.03470
M 2	Xylene (total)	106				203904	3.00000	3.03979
M 3	1,3-Dichloropropene (total)	75				68271	2.00000	1.90908
M 4	Trihalomethanes (total)	83				103029	4.00000	3.68230
5	Chlorotrifluoroethene	116	4.259	4.259	(0.522)	7645	1.00000	1.14721
6	dichlorodifluoromethane	85	4.314	4.329	(0.528)	27587	1.00000	1.09976(a)
8	Chloromethane	50	4.552	4.581	(0.557)	31074	1.00000	1.05750(a)
9	Vinyl Chloride	62	4.719	4.734	(0.578)	30099	1.00000	0.994422(a)
10	2-Chloro-1,1,1-trifluoroethan	118	4.761	4.776	(0.583)	41274	1.00000	1.01918
12	Bromomethane	94	5.097	5.111	(0.624)	22935	1.00000	0.988814(a)
13	Chloroethane	64	5.180	5.181	(0.634)	26276	1.00000	1.01720(a)
15	Trichlorofluoromethane	101	5.460	5.474	(0.669)	50131	1.00000	0.990361(a)
16	Ethanol	45	Compound Not Detected.					
20	Acrolein	56	5.767	5.768	(0.706)	16630	10.0000	9.82517(a)
22	Acetone	43	5.879	5.865	(0.720)	20644	4.00000	4.21238(a)
24	1,1-Dichloroethene	96	5.921	5.935	(0.725)	36014	1.00000	0.981289(a)
25	Iodomethane	142	6.100	6.115	(0.747)	44264	1.00000	0.993310(a)
30	tert-Butyl alcohol	59	6.214	6.222	(0.761)	15639	20.0000	17.3833(aQ)
31	Methylene Chloride	84	6.271	6.279	(0.768)	46353	1.00000	1.46054(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
32 Acrylonitrile	53	6.429	6.429	(0.787)	35569	10.0000	9.45705(a)
34 trans-1,2-Dichloroethene	96	6.500	6.501	(0.796)	38320	1.00000	1.01626
37 Isopropyl ether	87	6.765	6.773	(0.828)	121019	5.00000	4.87917(a)
38 1,1-Dichloroethane	63	6.829	6.830	(0.836)	61510	1.00000	0.999453(a)
39 Chloroprene	53	6.901	6.901	(0.845)	63318	1.00000	0.969506(a)
42 2-Butanone	43	7.215	7.209	(0.884)	18182	4.00000	3.96638(a)
45 cis-1,2-Dichloroethene	96	7.272	7.273	(0.891)	38051	1.00000	1.01844
44 Propionitrile	54	7.272	7.273	(0.891)	12554	10.0000	9.32739(a)
46 2,2-Dichloropropane	77	7.294	7.302	(0.893)	52428	1.00000	1.04327(a)
47 Methacrylonitrile	41	7.401	7.402	(0.906)	66664	10.0000	9.60369(a)
48 Bromochloromethane	128	7.480	7.473	(0.916)	11223	1.00000	0.966364(a)
49 Chloroform	83	7.480	7.481	(0.916)	52732	1.00000	0.980944(a)
53 1,1,1-Trichloroethane	97	7.701	7.702	(0.943)	53268	1.00000	1.01520
55 1,1-Dichloropropene	75	7.809	7.809	(0.956)	55600	1.00000	1.00883
56 Carbon Tetrachloride	117	7.852	7.852	(0.961)	43211	1.00000	0.966722(a)
58 1,2-Dichloroethane	62	7.973	7.974	(0.976)	29358	1.00000	0.901065(a)
60 Benzene	78	7.995	7.995	(0.979)	149691	1.00000	1.02866
62 n-Butanol	56	8.166	8.174	(1.000)	16133	20.0000	32.6739(a)
63 Trichloroethene	95	8.445	8.446	(1.034)	36401	1.00000	0.981848(a)
66 1,2-Dichloropropane	63	8.631	8.632	(1.057)	30932	1.00000	0.996870(a)
69 Dibromomethane	93	8.731	8.732	(1.069)	10012	1.00000	0.968350(a)
70 Bromodichloromethane	83	8.803	8.796	(1.078)	30288	1.00000	0.955812(a)
73 cis-1,3-Dichloropropene	75	9.117	9.118	(1.116)	39976	1.00000	0.973084(aQ)
74 4-Methyl-2-pentanone	43	9.167	9.161	(1.123)	39049	4.00000	3.72349(a)
76 Toluene	91	9.396	9.397	(1.151)	168559	1.00000	1.06000
78 trans-1,3-Dichloropropene	75	9.489	9.490	(1.162)	28295	1.00000	0.936001(a)
79 1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	14673	1.00000	0.966474(a)
80 2-Hexanone	43	9.768	9.769	(0.933)	28256	4.00000	4.00960(a)
81 1,3-Dichloropropane	76	9.804	9.804	(0.936)	27573	1.00000	0.956533(a)
82 Tetrachloroethene	164	9.832	9.826	(0.939)	29175	1.00000	0.989507(a)
83 Dibromochloromethane	129	10.011	10.005	(0.956)	14226	1.00000	0.935978(a)
85 1,2-Dibromoethane	107	10.147	10.140	(0.969)	13389	1.00000	0.981707(a)
86 1-Chlorohexane	91	10.361	10.362	(0.990)	57652	1.00000	1.00398(Q)
88 Chlorobenzene	112	10.490	10.491	(1.002)	88363	1.00000	1.01487
89 1,1,1,2-Tetrachloroethane	131	10.526	10.527	(1.005)	24427	1.00000	0.959980(a)
90 Ethylbenzene	106	10.526	10.527	(1.005)	55988	1.00000	0.993888(a)
91 m and p-Xylene	106	10.604	10.605	(1.013)	137511	2.00000	2.00211
92 o-Xylene	106	10.940	10.941	(1.045)	66393	1.00000	1.03768
93 Styrene	104	10.940	10.941	(1.045)	90657	1.00000	0.953580(a)
94 Bromoform	173	11.169	11.163	(1.067)	5783	1.00000	0.809570(a)
95 isopropyl benzene	105	11.212	11.213	(0.903)	168690	1.00000	1.03067
97 Cyclohexanone	55	11.362	11.363	(1.085)	14711	40.0000	42.7275(a)
99 1,1,2,2-Tetrachloroethane	83	11.434	11.435	(0.921)	14144	1.00000	0.986801(a)
101 1,2,3-Trichloropropane	110	11.520	11.513	(0.927)	2896	1.00000	0.744309(a)
103 Bromobenzene	156	11.570	11.570	(0.931)	28833	1.00000	0.980925(a)
102 n-Propylbenzene	120	11.555	11.556	(0.930)	49836	1.00000	0.991224(a)
105 2-Chlorotoluene	126	11.691	11.692	(0.941)	36318	1.00000	0.964794(a)
104 1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	140870	1.00000	0.994169(a)
106 4-Chlorotoluene	126	11.777	11.778	(0.948)	37254	1.00000	0.997027(a)
107 tert-Butylbenzene	119	11.992	11.992	(0.965)	148595	1.00000	1.01807
108 1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	140563	1.00000	1.01058
109 sec-Butylbenzene	134	12.185	12.185	(0.981)	39397	1.00000	0.981391(a)
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	160850	1.00000	1.00436
111 1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	62954	1.00000	0.991064(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
113 1,4-dichlorobenzene	146	12.449	12.450	(1.002)	63689	1.00000	1.04071
115 n-Butylbenzene	91	12.685	12.679	(1.021)	164763	1.00000	1.03205
116 1,2-Dichlorobenzene	146	12.842	12.843	(1.034)	50057	1.00000	0.981211(a)
117 1,2-Dibromo-3-chloropropane	157	13.658	13.665	(1.100)	1301	1.00000	0.633381(aQ)
118 1,2,4-Trichlorobenzene	180	14.723	14.724	(1.185)	33794	1.00000	0.980577(a)
119 Hexachlorobutadiene	225	14.887	14.881	(1.199)	24816	1.00000	1.01908
120 Naphthalene	128	15.138	15.138	(1.219)	46131	1.00000	0.968647(a)
121 1,2,3-Trichlorobenzene	180	15.488	15.496	(1.247)	26345	1.00000	0.983931(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4603.D

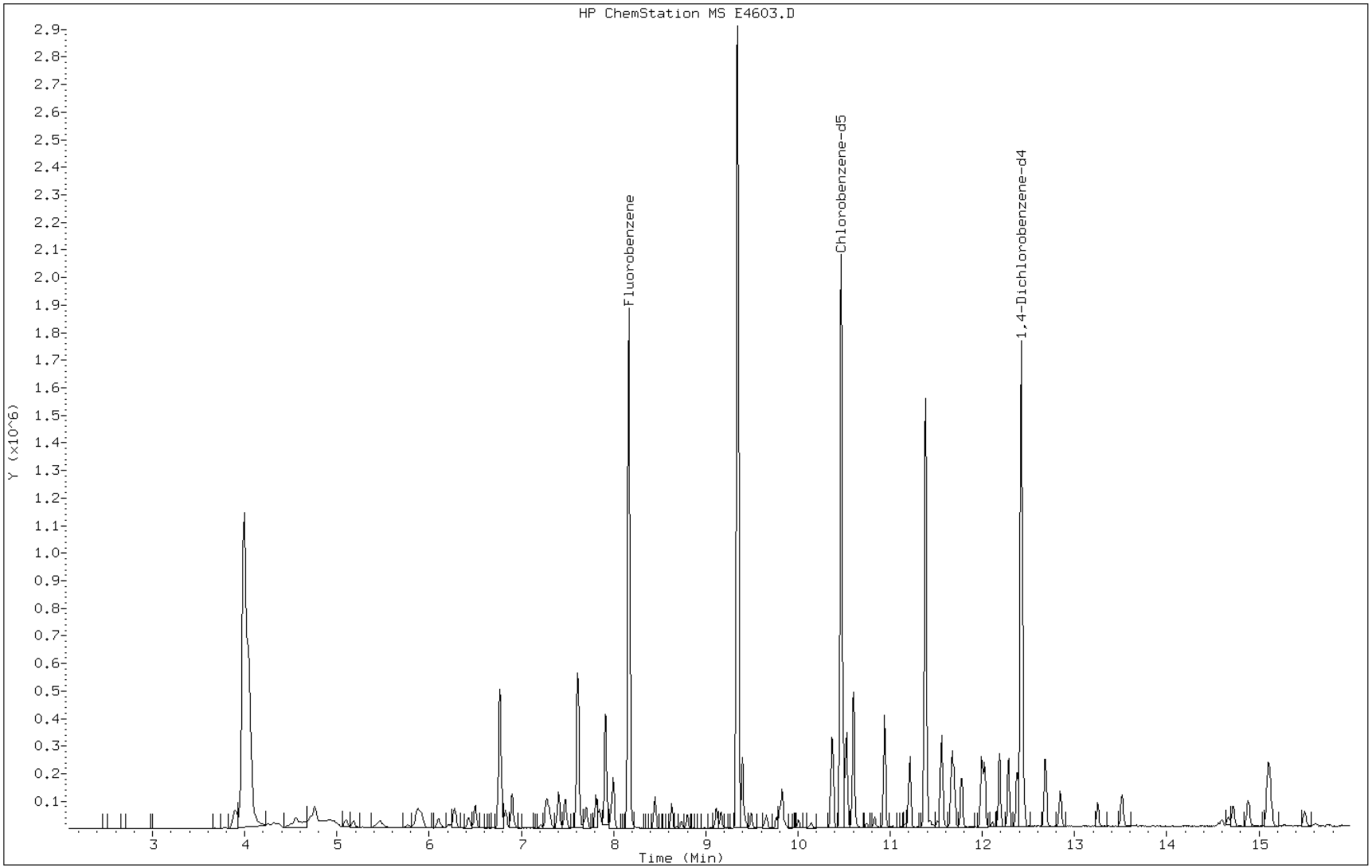
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Client ID: IC

Instrument: E.i

Sample Info: IC,,M1.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4604.D
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Inj Date : 28-NOV-2011 10:57
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Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
* 61	Fluorobenzene	96	8.167	8.166	(1.000)	1638653	12.5000	
* 87	Chlorobenzene-d5	119	10.469	10.469	(1.000)	372282	12.5000	
* 112	1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	501777	12.5000	(Q)
M 1	1,2-Dichloroethene (total)	96				148975	4.00000	3.87755
M 2	Xylene (total)	106				407165	6.00000	5.92677
M 3	1,3-Dichloropropene (total)	75				137641	4.00000	3.75606
M 4	Trihalomethanes (total)	83				214094	8.00000	7.49198
5	Chlorotrifluoroethene	116	4.258	4.259	(0.521)	14892	2.00000	1.64837
6	dichlorodifluoromethane	85	4.314	4.329	(0.528)	49654	2.00000	1.66928(a)
8	Chloromethane	50	4.551	4.581	(0.557)	55066	2.00000	1.83078(a)
9	Vinyl Chloride	62	4.719	4.734	(0.578)	58498	2.00000	1.88811
10	2-Chloro-1,1,1-trifluoroethan	118	4.761	4.776	(0.583)	81667	2.00000	1.97010
12	Bromomethane	94	5.096	5.111	(0.624)	44075	2.00000	1.85641(a)
13	Chloroethane	64	5.180	5.181	(0.634)	51739	2.00000	1.95673(a)
15	Trichlorofluoromethane	101	5.459	5.474	(0.668)	96345	2.00000	1.85944(a)
20	Acrolein	56	5.766	5.768	(0.706)	31368	20.0000	18.1051(a)
22	Acetone	43	5.864	5.865	(0.718)	29257	8.00000	7.03406(a)
24	1,1-Dichloroethene	96	5.920	5.935	(0.725)	77897	2.00000	2.07354
25	Iodomethane	142	6.101	6.115	(0.747)	84043	2.00000	1.84248
26	Acetonitrile	41	6.115	6.115	(0.749)	21226	20.0000	18.9421(aQ)
30	tert-Butyl alcohol	59	6.215	6.222	(0.761)	30245	40.0000	32.8430(aQ)
31	Methylene Chloride	84	6.272	6.279	(0.768)	71277	2.00000	2.19407(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
32 Acrylonitrile	53	6.422	6.429	(0.786)	71056	20.0000	18.4566(a)
34 trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	74582	2.00000	1.93232
37 Isopropyl ether	87	6.766	6.773	(0.828)	245533	10.0000	9.67094(a)
38 1,1-Dichloroethane	63	6.830	6.830	(0.836)	121796	2.00000	1.93338
39 Chloroprene	53	6.901	6.901	(0.845)	130302	2.00000	1.94913
42 2-Butanone	43	7.209	7.209	(0.883)	35941	8.00000	7.65967
45 cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	74393	2.00000	1.94522
44 Propionitrile	54	7.273	7.273	(0.891)	25875	20.0000	18.7813(a)
46 2,2-Dichloropropane	77	7.295	7.302	(0.893)	100204	2.00000	1.94798(a)
47 Methacrylonitrile	41	7.402	7.402	(0.906)	136658	20.0000	19.2331
48 Bromochloromethane	128	7.473	7.473	(0.915)	23449	2.00000	1.97253
49 Chloroform	83	7.481	7.481	(0.916)	106069	2.00000	1.92764
53 1,1,1-Trichloroethane	97	7.709	7.702	(0.944)	101937	2.00000	1.89795
52 Isobutanol	41	7.674	7.666	(0.940)	14224	40.0000	41.1241(a)
55 1,1-Dichloropropene	75	7.809	7.809	(0.956)	111629	2.00000	1.97873
56 Carbon Tetrachloride	117	7.845	7.852	(0.961)	85694	2.00000	1.87294
58 1,2-Dichloroethane	62	7.974	7.974	(0.976)	55620	2.00000	1.84671
60 Benzene	78	7.995	7.995	(0.979)	295236	2.00000	1.98205
62 n-Butanol	56	8.174	8.174	(1.001)	23415	40.0000	46.3284(a)
63 Trichloroethene	95	8.446	8.446	(1.034)	73416	2.00000	1.93459
66 1,2-Dichloropropane	63	8.632	8.632	(1.057)	61397	2.00000	1.93306
68 1,4-Dioxane	88	8.675	8.675	(1.062)	9170	100.000	87.2365(a)
69 Dibromomethane	93	8.732	8.732	(1.069)	19720	2.00000	1.86331
70 Bromodichloromethane	83	8.796	8.796	(1.077)	64276	2.00000	1.98161
73 cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	81073	2.00000	1.92794
74 4-Methyl-2-pentanone	43	9.161	9.161	(1.122)	85168	8.00000	7.93385
76 Toluene	91	9.397	9.397	(1.151)	326785	2.00000	2.00763
78 trans-1,3-Dichloropropene	75	9.490	9.490	(1.162)	56568	2.00000	1.82812(a)
79 1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	29338	2.00000	1.88785
80 2-Hexanone	43	9.769	9.769	(0.933)	53510	8.00000	7.42125
81 1,3-Dichloropropane	76	9.804	9.804	(0.936)	56626	2.00000	1.91992
82 Tetrachloroethene	164	9.826	9.826	(0.939)	57543	2.00000	1.90744
83 Dibromochloromethane	129	10.005	10.005	(0.956)	30732	2.00000	1.80174
85 1,2-Dibromoethane	107	10.140	10.140	(0.969)	26499	2.00000	1.89896
86 1-Chlorohexane	91	10.362	10.362	(0.990)	113982	2.00000	1.93999(Q)
88 Chlorobenzene	112	10.491	10.491	(1.002)	171752	2.00000	1.92793
89 1,1,1,2-Tetrachloroethane	131	10.527	10.527	(1.005)	50002	2.00000	1.92057
90 Ethylbenzene	106	10.527	10.527	(1.005)	111628	2.00000	1.93672
91 m and p-Xylene	106	10.605	10.605	(1.013)	280092	4.00000	3.98568
92 o-Xylene	106	10.941	10.941	(1.045)	127073	2.00000	1.94109
93 Styrene	104	10.941	10.941	(1.045)	189063	2.00000	1.94363
94 Bromoform	173	11.163	11.163	(1.066)	13017	2.00000	1.78100
95 isopropyl benzene	105	11.213	11.213	(0.903)	334200	2.00000	1.99511
97 Cyclohexanone	55	11.356	11.363	(1.085)	27401	80.0000	77.7828(a)
99 1,1,2,2-Tetrachloroethane	83	11.435	11.435	(0.921)	28662	2.00000	1.95387
101 1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	7464	2.00000	1.87438
103 Bromobenzene	156	11.570	11.570	(0.931)	56741	2.00000	1.88614
102 n-Propylbenzene	120	11.556	11.556	(0.930)	99043	2.00000	1.92479
105 2-Chlorotoluene	126	11.692	11.692	(0.941)	75611	2.00000	1.96259
104 1,3,5-Trimethylbenzene	105	11.671	11.671	(0.940)	284843	2.00000	1.96417
106 4-Chlorotoluene	126	11.778	11.778	(0.948)	72855	2.00000	1.90513
107 tert-Butylbenzene	119	11.992	11.992	(0.965)	294594	2.00000	1.97210
108 1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	278645	2.00000	1.95741
109 sec-Butylbenzene	134	12.185	12.185	(0.981)	78795	2.00000	1.91782

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	324299	2.00000	1.97855
111 1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	124303	2.00000	1.91202
113 1,4-dichlorobenzene	146	12.450	12.450	(1.002)	124103	2.00000	1.98143
115 n-Butylbenzene	91	12.679	12.679	(1.021)	324798	2.00000	1.98787
116 1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	103126	2.00000	1.97514
117 1,2-Dibromo-3-chloropropane	157	13.658	13.665	(1.100)	3578	2.00000	1.70200(a)
118 1,2,4-Trichlorobenzene	180	14.716	14.724	(1.185)	66943	2.00000	1.89792
119 Hexachlorobutadiene	225	14.881	14.881	(1.198)	49529	2.00000	1.98732
120 Naphthalene	128	15.131	15.138	(1.218)	91438	2.00000	1.87599
121 1,2,3-Trichlorobenzene	180	15.496	15.496	(1.248)	53035	2.00000	1.93536

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4604.D

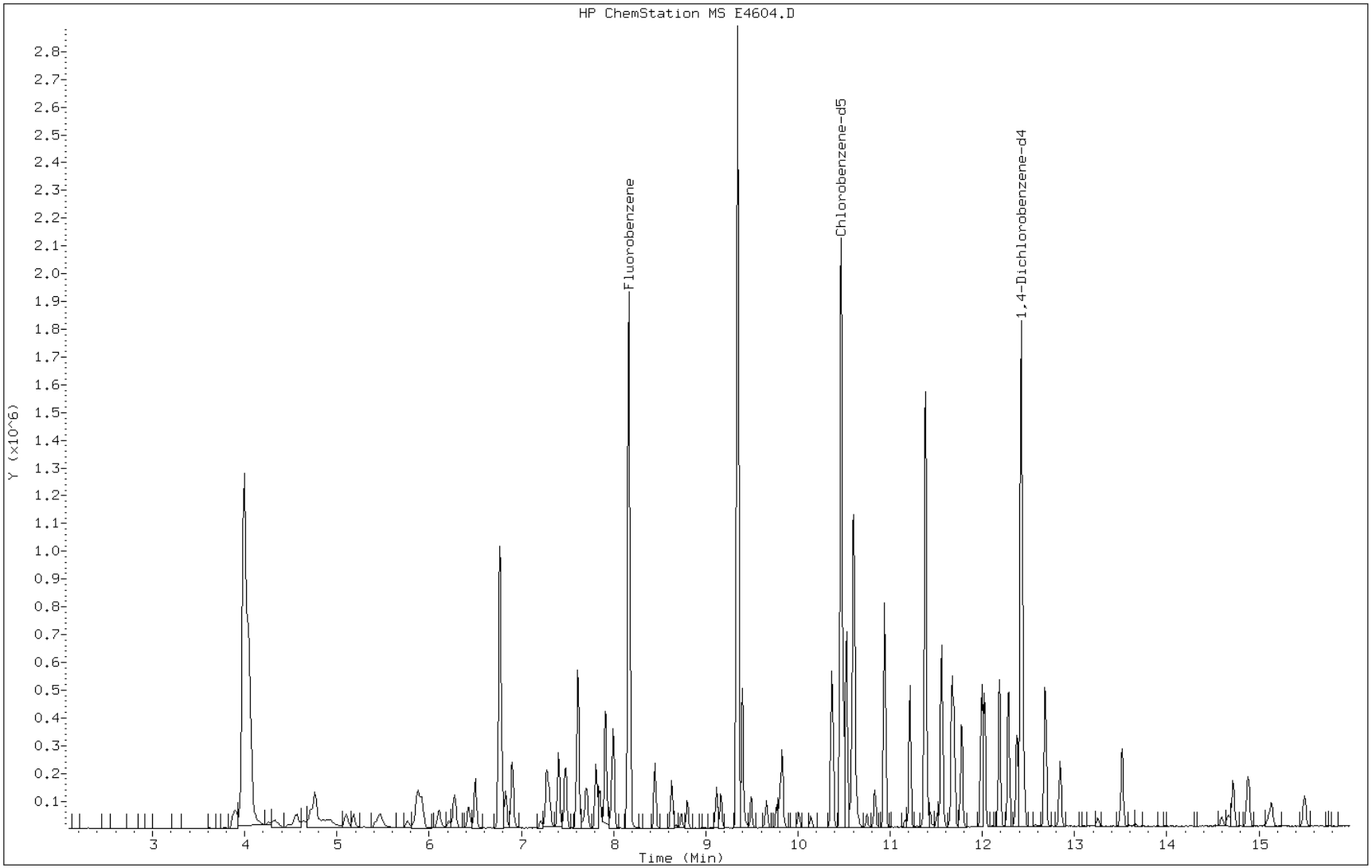
Date: 28-NOV-2011 10:57

Client ID: IC

Instrument: E.i

Sample Info: IC,,M2.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4605.D
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Inj Date : 28-NOV-2011 11:16
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,M5.0
Misc Info :
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Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1621311	12.5000	
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	369529	12.5000	
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	490537	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				381368	10.0000	10.0324
M	2 Xylene (total)	106				1040290	15.0000	15.2556
M	3 1,3-Dichloropropene (total)	75				360569	10.0000	9.97143
M	4 Trihalomethanes (total)	83				563158	20.0000	19.8778
	5 Chlorotrifluoroethene	116	4.272	4.259	(0.523)	62770	5.00000	5.09149
	6 dichlorodifluoromethane	85	4.328	4.329	(0.530)	175246	5.00000	5.05904
	8 Chloromethane	50	4.566	4.581	(0.559)	154292	5.00000	5.18462
	9 Vinyl Chloride	62	4.719	4.734	(0.578)	158409	5.00000	5.16757
	10 2-Chloro-1,1,1-trifluoroethan	118	4.775	4.776	(0.585)	207826	5.00000	5.06714
	12 Bromomethane	94	5.110	5.111	(0.626)	120444	5.00000	5.12730
	13 Chloroethane	64	5.180	5.181	(0.634)	133519	5.00000	5.10359
	15 Trichlorofluoromethane	101	5.473	5.474	(0.670)	259809	5.00000	5.06791
	16 Ethanol	45	5.459	5.460	(0.669)	28787	250.000	244.882(a)
	20 Acrolein	56	5.767	5.768	(0.706)	83934	50.0000	48.9636
	22 Acetone	43	5.878	5.865	(0.720)	68545	20.0000	20.9316
	24 1,1-Dichloroethene	96	5.920	5.935	(0.725)	189164	5.00000	5.08922
	25 Iodomethane	142	6.107	6.115	(0.748)	225499	5.00000	4.99651
	26 Acetonitrile	41	6.121	6.115	(0.750)	51071	50.0000	46.0633
	30 tert-Butyl alcohol	59	6.214	6.222	(0.761)	87706	100.000	96.2587(Q)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
31 Methylene Chloride	84	6.279	6.279	(0.769)	163761	5.00000	5.09486
32 Acrylonitrile	53	6.429	6.429	(0.787)	188284	50.0000	49.4293
34 trans-1,2-Dichloroethene	96	6.500	6.501	(0.796)	191345	5.00000	5.01053
37 Isopropyl ether	87	6.772	6.773	(0.829)	646390	25.0000	25.7320
38 1,1-Dichloroethane	63	6.829	6.830	(0.836)	314938	5.00000	5.05277
39 Chloroprene	53	6.901	6.901	(0.845)	336285	5.00000	5.08415
42 2-Butanone	43	7.215	7.209	(0.884)	92234	20.0000	19.8670
45 cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	190023	5.00000	5.02186
44 Propionitrile	54	7.273	7.273	(0.891)	67066	50.0000	49.2003
46 2,2-Dichloropropane	77	7.301	7.302	(0.894)	255386	5.00000	5.01784
47 Methacrylonitrile	41	7.401	7.402	(0.906)	348724	50.0000	49.6039
48 Bromochloromethane	128	7.480	7.473	(0.916)	57780	5.00000	4.91244
49 Chloroform	83	7.480	7.481	(0.916)	278272	5.00000	5.11125
53 1,1,1-Trichloroethane	97	7.709	7.702	(0.944)	268184	5.00000	5.04668
52 Isobutanol	41	7.673	7.666	(0.940)	32934	100.000	96.2365(a)
55 1,1-Dichloropropene	75	7.809	7.809	(0.956)	280823	5.00000	5.03109
56 Carbon Tetrachloride	117	7.852	7.852	(0.961)	226353	5.00000	5.00013
58 1,2-Dichloroethane	62	7.973	7.974	(0.976)	135869	5.00000	4.86841
60 Benzene	78	8.002	7.995	(0.980)	757147	5.00000	5.13744
62 n-Butanol	56	8.173	8.174	(1.001)	48952	100.000	97.8914
63 Trichloroethene	95	8.452	8.446	(1.035)	189894	5.00000	5.05743
66 1,2-Dichloropropane	63	8.631	8.632	(1.057)	154624	5.00000	4.92034
68 1,4-Dioxane	88	8.681	8.675	(1.063)	22817	250.000	219.386
69 Dibromomethane	93	8.738	8.732	(1.070)	51802	5.00000	4.94704
70 Bromodichloromethane	83	8.803	8.796	(1.078)	163936	5.00000	5.10815
73 cis-1,3-Dichloropropene	75	9.117	9.118	(1.116)	209290	5.00000	5.03022
74 4-Methyl-2-pentanone	43	9.167	9.161	(1.123)	209196	20.0000	19.6962
76 Toluene	91	9.396	9.397	(1.151)	821193	5.00000	5.09904
78 trans-1,3-Dichloropropene	75	9.489	9.490	(1.162)	151279	5.00000	4.94120
79 1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	74763	5.00000	4.86234
80 2-Hexanone	43	9.768	9.769	(0.933)	144705	20.0000	20.2185
81 1,3-Dichloropropane	76	9.804	9.804	(0.936)	148090	5.00000	5.05844
82 Tetrachloroethene	164	9.832	9.826	(0.939)	149279	5.00000	4.98519
83 Dibromochloromethane	129	10.011	10.005	(0.956)	85441	5.00000	4.76386
85 1,2-Dibromoethane	107	10.140	10.140	(0.969)	68937	5.00000	4.97692
86 1-Chlorohexane	91	10.361	10.362	(0.990)	295784	5.00000	5.07180
88 Chlorobenzene	112	10.490	10.491	(1.002)	455414	5.00000	5.15016
89 1,1,1,2-Tetrachloroethane	131	10.526	10.527	(1.005)	131014	5.00000	5.06973
90 Ethylbenzene	106	10.526	10.527	(1.005)	288062	5.00000	5.03505
91 m and p-Xylene	106	10.605	10.605	(1.013)	715471	10.0000	10.2569
92 o-Xylene	106	10.941	10.941	(1.045)	324819	5.00000	4.99871
93 Styrene	104	10.941	10.941	(1.045)	487198	5.00000	5.04588
94 Bromoform	173	11.162	11.163	(1.066)	35509	5.00000	4.89457
95 isopropyl benzene	105	11.212	11.213	(0.903)	855976	5.00000	5.22711
97 Cyclohexanone	55	11.362	11.363	(1.085)	66099	200.000	189.032
99 1,1,2,2-Tetrachloroethane	83	11.434	11.435	(0.921)	72079	5.00000	5.02616
101 1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	20442	5.00000	5.25108
103 Bromobenzene	156	11.570	11.570	(0.931)	147339	5.00000	5.00996
102 n-Propylbenzene	120	11.555	11.556	(0.930)	258397	5.00000	5.13673
105 2-Chlorotoluene	126	11.691	11.692	(0.941)	190959	5.00000	5.07018
104 1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	740284	5.00000	5.22168
106 4-Chlorotoluene	126	11.777	11.778	(0.948)	187860	5.00000	5.02504
107 tert-Butylbenzene	119	11.992	11.992	(0.965)	741507	5.00000	5.07761
108 1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	719749	5.00000	5.17191

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 sec-Butylbenzene	134	12.185	12.185	(0.981)	204348	5.00000	5.08768
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	827751	5.00000	5.16584
111 1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	318327	5.00000	5.00867
113 1,4-dichlorobenzene	146	12.449	12.450	(1.002)	309727	5.00000	5.05842
115 n-Butylbenzene	91	12.685	12.679	(1.021)	825575	5.00000	5.16856
116 1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	254408	5.00000	4.98424
117 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	9958	5.00000	4.84541
118 1,2,4-Trichlorobenzene	180	14.723	14.724	(1.185)	171510	5.00000	4.97396
119 Hexachlorobutadiene	225	14.880	14.881	(1.198)	122417	5.00000	5.02446
120 Naphthalene	128	15.138	15.138	(1.219)	233150	5.00000	4.89304
121 1,2,3-Trichlorobenzene	180	15.495	15.496	(1.248)	130444	5.00000	4.86924

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4605.D

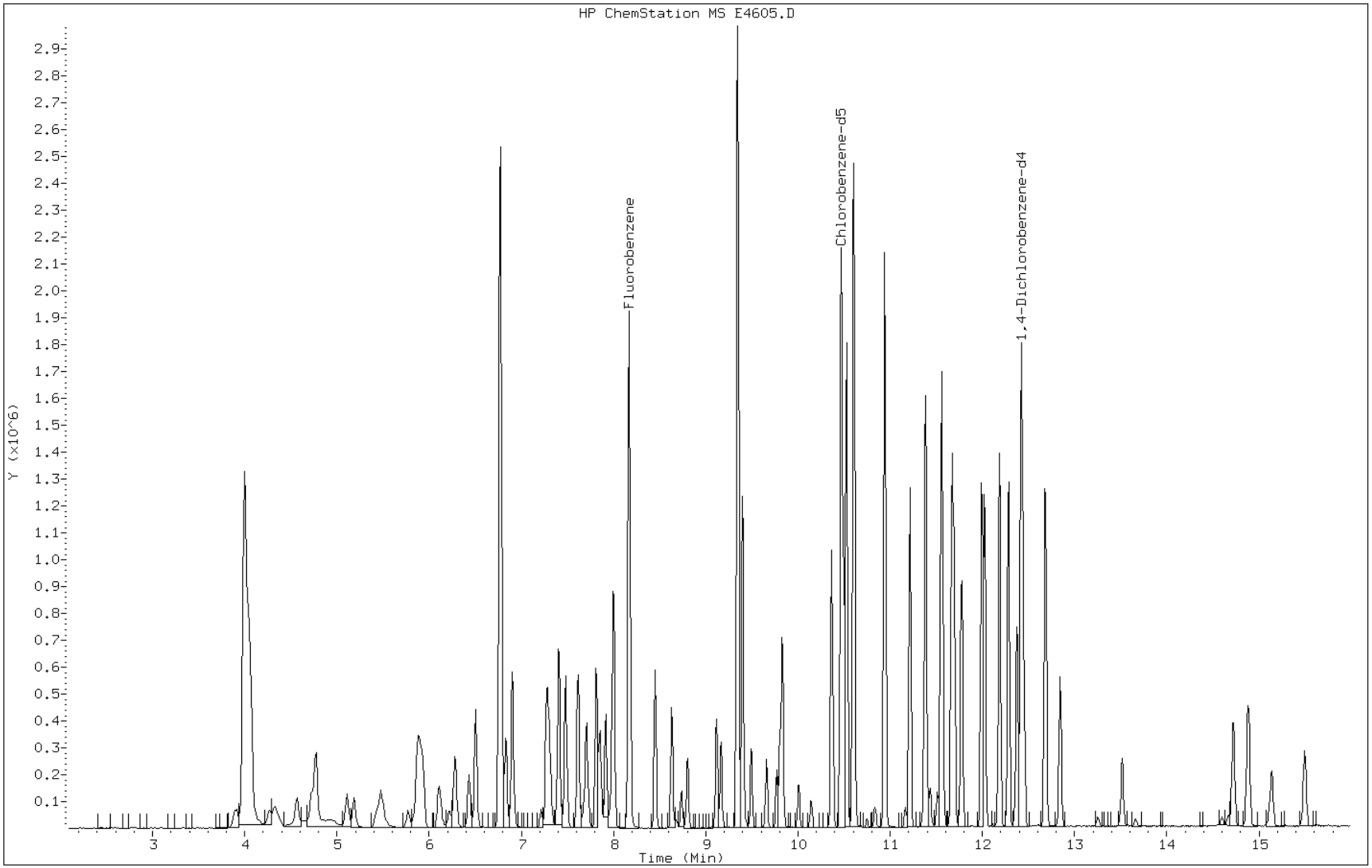
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Instrument: E.i

Sample Info: IC,,M5.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4606.D
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Inj Date : 28-NOV-2011 11:35
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,M10
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Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1629426	12.5000	
*	87 Chlorobenzene-d5	119	10.468	10.469	(1.000)	373962	12.5000	
*	112 1,4-Dichlorobenzene-d4	152	12.420	12.421	(1.000)	507155	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				797524	20.0000	20.8756
M	2 Xylene (total)	106				2210840	30.0000	32.0437
M	3 1,3-Dichloropropene (total)	75				778811	20.0000	21.4316
M	4 Trihalomethanes (total)	83				1202984	40.0000	42.5815
	5 Chlorotrifluoroethene	116	4.258	4.259	(0.521)	136919	10.0000	10.3575
	6 dichlorodifluoromethane	85	4.328	4.329	(0.530)	387193	10.0000	10.7039
	8 Chloromethane	50	4.565	4.581	(0.559)	309123	10.0000	10.3356
	9 Vinyl Chloride	62	4.719	4.734	(0.578)	324295	10.0000	10.5264
	10 2-Chloro-1,1,1-trifluoroethan	118	4.775	4.776	(0.585)	433004	10.0000	10.5048
	12 Bromomethane	94	5.110	5.111	(0.626)	256037	10.0000	10.8452
	13 Chloroethane	64	5.180	5.181	(0.634)	274273	10.0000	10.4315
	15 Trichlorofluoromethane	101	5.473	5.474	(0.670)	542322	10.0000	10.5260
	16 Ethanol	45	5.459	5.460	(0.669)	58503	500.000	495.187
	20 Acrolein	56	5.766	5.768	(0.706)	176673	100.000	102.550
	22 Acetone	43	5.878	5.865	(0.720)	120620	40.0000	38.9975
	24 1,1-Dichloroethene	96	5.920	5.935	(0.725)	392444	10.0000	10.5056
	25 Iodomethane	142	6.107	6.115	(0.748)	479932	10.0000	10.5812
	26 Acetonitrile	41	6.121	6.115	(0.750)	120469	100.000	108.115(H)
	30 tert-Butyl alcohol	59	6.214	6.222	(0.761)	199241	200.000	217.581(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
31	Methylene Chloride	84	6.278	6.279	(0.769)	329611	10.0000	10.2036
32	Acrylonitrile	53	6.429	6.429	(0.787)	409592	100.000	106.993
34	trans-1,2-Dichloroethene	96	6.500	6.501	(0.796)	399640	10.0000	10.4128
37	Isopropyl ether	87	6.772	6.773	(0.829)	1364329	50.0000	54.0419
38	1,1-Dichloroethane	63	6.829	6.830	(0.836)	665803	10.0000	10.6287
39	Chloroprene	53	6.901	6.901	(0.845)	714029	10.0000	10.7413
42	2-Butanone	43	7.215	7.209	(0.884)	192879	40.0000	41.3388
45	cis-1,2-Dichloroethene	96	7.272	7.273	(0.891)	397884	10.0000	10.4628
44	Propionitrile	54	7.272	7.273	(0.891)	145417	100.000	106.148
46	2,2-Dichloropropane	77	7.301	7.302	(0.894)	536229	10.0000	10.4834
47	Methacrylonitrile	41	7.401	7.402	(0.906)	750688	100.000	106.249
48	Bromochloromethane	128	7.480	7.473	(0.916)	122879	10.0000	10.3951
49	Chloroform	83	7.480	7.481	(0.916)	583430	10.0000	10.6630
53	1,1,1-Trichloroethane	97	7.708	7.702	(0.944)	557757	10.0000	10.4436
52	Isobutanol	41	7.673	7.666	(0.940)	73228	200.000	212.914
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	589442	10.0000	10.5076
56	Carbon Tetrachloride	117	7.851	7.852	(0.961)	480532	10.0000	10.5621
58	1,2-Dichloroethane	62	7.973	7.974	(0.976)	285102	10.0000	10.3936
60	Benzene	78	7.994	7.995	(0.979)	1594112	10.0000	10.7626
62	n-Butanol	56	8.173	8.174	(1.001)	97890	200.000	194.780
63	Trichloroethene	95	8.445	8.446	(1.034)	397291	10.0000	10.5283
66	1,2-Dichloropropane	63	8.631	8.632	(1.057)	333568	10.0000	10.5617
68	1,4-Dioxane	88	8.681	8.675	(1.063)	54573	500.000	522.107
69	Dibromomethane	93	8.738	8.732	(1.070)	112327	10.0000	10.6737
70	Bromodichloromethane	83	8.802	8.796	(1.078)	351546	10.0000	10.8994
73	cis-1,3-Dichloropropene	75	9.117	9.118	(1.116)	451936	10.0000	10.8080
74	4-Methyl-2-pentanone	43	9.167	9.161	(1.123)	450824	40.0000	42.2345
76	Toluene	91	9.396	9.397	(1.151)	1710426	10.0000	10.5677
78	trans-1,3-Dichloropropene	75	9.496	9.490	(1.163)	326875	10.0000	10.6235
79	1,1,2-Trichloroethane	97	9.660	9.661	(1.183)	164493	10.0000	10.6448
80	2-Hexanone	43	9.768	9.769	(0.933)	303616	40.0000	41.9190
81	1,3-Dichloropropane	76	9.803	9.804	(0.936)	317294	10.0000	10.7096
82	Tetrachloroethene	164	9.832	9.826	(0.939)	318553	10.0000	10.5120
83	Dibromochloromethane	129	10.011	10.005	(0.956)	188628	10.0000	10.2070
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	145069	10.0000	10.3491
86	1-Chlorohexane	91	10.361	10.362	(0.990)	627284	10.0000	10.6285
88	Chlorobenzene	112	10.490	10.491	(1.002)	968556	10.0000	10.8233
89	1,1,1,2-Tetrachloroethane	131	10.526	10.527	(1.005)	282070	10.0000	10.7856
90	Ethylbenzene	106	10.526	10.527	(1.005)	618819	10.0000	10.6881
91	m and p-Xylene	106	10.604	10.605	(1.013)	1514203	20.0000	21.4501
92	o-Xylene	106	10.940	10.941	(1.045)	696637	10.0000	10.5936
93	Styrene	104	10.940	10.941	(1.045)	1056401	10.0000	10.8114
94	Bromoform	173	11.169	11.163	(1.067)	79380	10.0000	10.8120
95	isopropyl benzene	105	11.212	11.213	(0.903)	1793824	10.0000	10.5952
97	Cyclohexanone	55	11.362	11.363	(1.085)	143291	400.000	404.930
99	1,1,2,2-Tetrachloroethane	83	11.434	11.435	(0.921)	158356	10.0000	10.6805
101	1,2,3-Trichloropropane	110	11.512	11.513	(0.927)	46249	10.0000	11.4910
103	Bromobenzene	156	11.570	11.570	(0.931)	318822	10.0000	10.4857
102	n-Propylbenzene	120	11.555	11.556	(0.930)	545871	10.0000	10.4959
105	2-Chlorotoluene	126	11.691	11.692	(0.941)	407249	10.0000	10.4586
104	1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	1562898	10.0000	10.6629
106	4-Chlorotoluene	126	11.777	11.778	(0.948)	406531	10.0000	10.5179
107	tert-Butylbenzene	119	11.991	11.992	(0.965)	1588230	10.0000	10.5193
108	1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	1523998	10.0000	10.5922

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
109 sec-Butylbenzene	134	12.184	12.185	(0.981)	437928	10.0000	10.5459
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	1771039	10.0000	10.6906
111 1,3-Dichlorobenzene	146	12.370	12.371	(0.996)	693690	10.0000	10.5571
113 1,4-dichlorobenzene	146	12.449	12.450	(1.002)	655160	10.0000	10.3494
115 n-Butylbenzene	91	12.685	12.679	(1.021)	1754427	10.0000	10.6238
116 1,2-Dichlorobenzene	146	12.842	12.843	(1.034)	554870	10.0000	10.5145
117 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	21353	10.0000	10.0496
118 1,2,4-Trichlorobenzene	180	14.723	14.724	(1.185)	369154	10.0000	10.3550
119 Hexachlorobutadiene	225	14.880	14.881	(1.198)	271757	10.0000	10.7884
120 Naphthalene	128	15.137	15.138	(1.219)	519024	10.0000	10.5357
121 1,2,3-Trichlorobenzene	180	15.495	15.496	(1.248)	288243	10.0000	10.4070

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: E4606.D

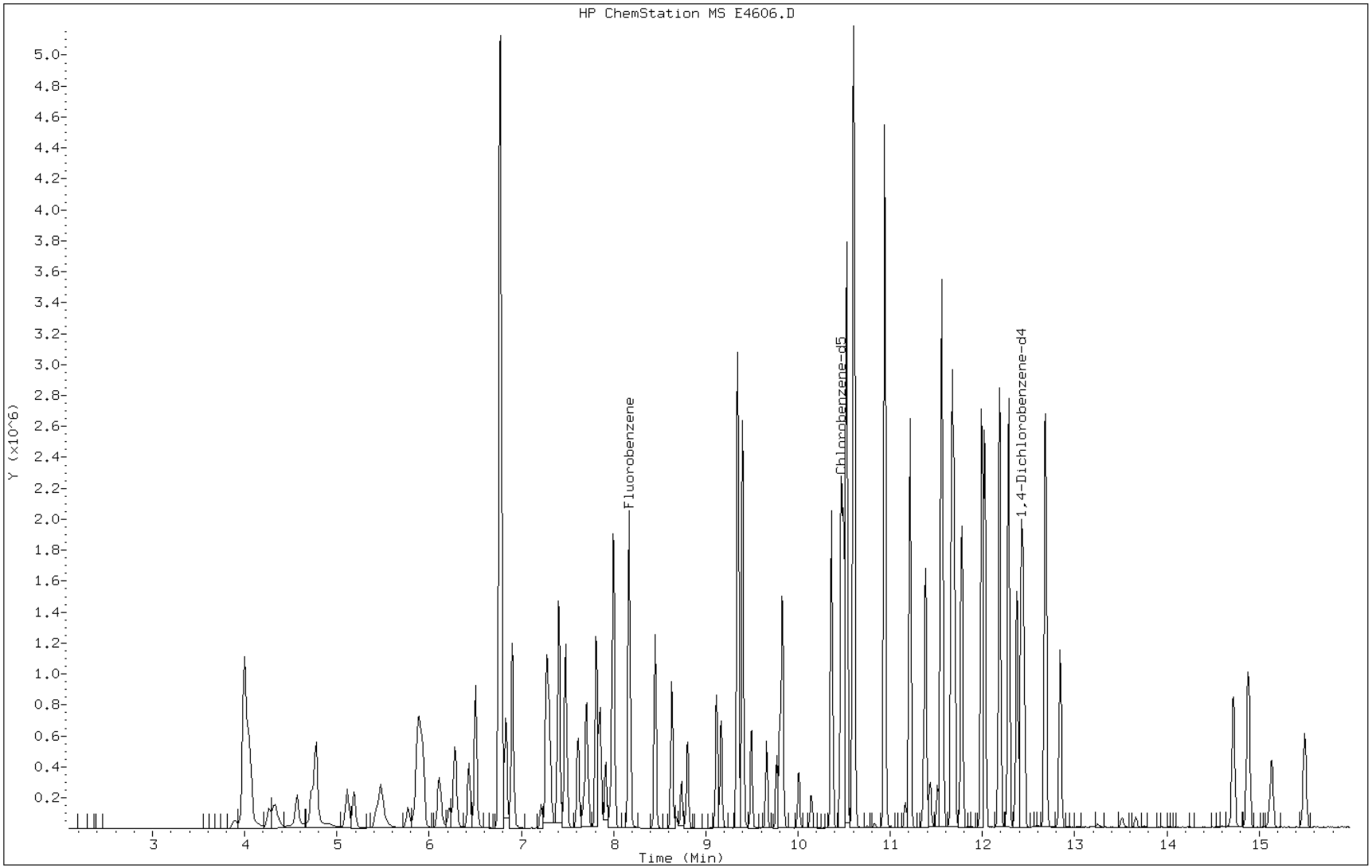
Date: 28-NOV-2011 11:35

Client ID: IC

Instrument: E.i

Sample Info: IC,,M10

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4607.D
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Inj Date : 28-NOV-2011 11:55
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,M30
Misc Info :
Comment :
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Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1672344	12.5000	
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	382596	12.5000	
*	112 1,4-Dichlorobenzene-d4	152	12.420	12.421	(1.000)	512136	12.5000	(Q)
M	1 1,2-Dichloroethene (total)	96				2294434	60.0000	58.5152
M	2 Xylene (total)	106				6209523	90.0000	87.9823
M	3 1,3-Dichloropropene (total)	75				2308820	60.0000	61.9544
M	4 Trihalomethanes (total)	83				3519400	120.000	123.604
	5 Chlorotrifluoroethene	116	4.258	4.259	(0.522)	406891	30.0000	28.8676
	6 dichlorodifluoromethane	85	4.328	4.329	(0.530)	1124714	30.0000	29.6562
	8 Chloromethane	50	4.566	4.581	(0.559)	895424	30.0000	29.1704
	9 Vinyl Chloride	62	4.719	4.734	(0.578)	932969	30.0000	29.5063
	10 2-Chloro-1,1,1-trifluoroethan	118	4.775	4.776	(0.585)	1211051	30.0000	28.6264
	12 Bromomethane	94	5.110	5.111	(0.626)	722309	30.0000	29.8103
	13 Chloroethane	64	5.180	5.181	(0.634)	793922	30.0000	29.4206
	15 Trichlorofluoromethane	101	5.474	5.474	(0.670)	1578970	30.0000	29.8600
	16 Ethanol	45	5.460	5.460	(0.669)	188242	1500.00	1552.45
	20 Acrolein	56	5.767	5.768	(0.706)	543531	300.000	307.397
	22 Acetone	43	5.865	5.865	(0.718)	362730	120.000	120.297
	24 1,1-Dichloroethene	96	5.920	5.935	(0.725)	1016344	30.0000	26.5091
	25 Iodomethane	142	6.107	6.115	(0.748)	1389044	30.0000	29.8386
	26 Acetonitrile	41	6.121	6.115	(0.750)	340064	300.000	297.360
	30 tert-Butyl alcohol	59	6.214	6.222	(0.761)	582535	600.000	619.831

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31	Methylene Chloride	84	6.279	6.279	(0.769)	914686	30.0000	27.5889
32	Acrylonitrile	53	6.429	6.429	(0.787)	1200237	300.000	305.477
34	trans-1,2-Dichloroethene	96	6.500	6.501	(0.796)	1155803	30.0000	29.3421
37	Isopropyl ether	87	6.772	6.773	(0.829)	3828984	150.000	147.776
38	1,1-Dichloroethane	63	6.829	6.830	(0.836)	1889820	30.0000	29.3944
39	Chloroprene	53	6.901	6.901	(0.845)	2007470	30.0000	29.4239
42	2-Butanone	43	7.208	7.209	(0.883)	575826	120.000	120.246
45	cis-1,2-Dichloroethene	96	7.272	7.273	(0.891)	1138631	30.0000	29.1731
44	Propionitrile	54	7.272	7.273	(0.891)	430619	300.000	306.266
46	2,2-Dichloropropane	77	7.301	7.302	(0.894)	1516724	30.0000	28.8913
47	Methacrylonitrile	41	7.401	7.402	(0.906)	2186315	300.000	301.500
48	Bromochloromethane	128	7.473	7.473	(0.915)	358260	30.0000	29.5296
49	Chloroform	83	7.480	7.481	(0.916)	1671043	30.0000	29.7568
53	1,1,1-Trichloroethane	97	7.709	7.702	(0.944)	1606285	30.0000	29.3046
52	Isobutanol	41	7.673	7.666	(0.940)	199641	600.000	565.569
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	1681021	30.0000	29.1974
56	Carbon Tetrachloride	117	7.852	7.852	(0.961)	1407352	30.0000	30.1396
58	1,2-Dichloroethane	62	7.973	7.974	(0.976)	812365	30.0000	29.2291
60	Benzene	78	7.995	7.995	(0.979)	4440292	30.0000	29.2091
62	n-Butanol	56	8.173	8.174	(1.001)	283237	600.000	549.117
63	Trichloroethene	95	8.445	8.446	(1.034)	1138991	30.0000	29.4089
66	1,2-Dichloropropane	63	8.631	8.632	(1.057)	956294	30.0000	29.5019
68	1,4-Dioxane	88	8.681	8.675	(1.063)	172800	1500.00	1610.77
69	Dibromomethane	93	8.731	8.732	(1.069)	323456	30.0000	29.9471
70	Bromodichloromethane	83	8.803	8.796	(1.078)	1033281	30.0000	31.2139
73	cis-1,3-Dichloropropene	75	9.117	9.118	(1.116)	1333797	30.0000	31.0792
74	4-Methyl-2-pentanone	43	9.160	9.161	(1.122)	1332376	120.000	121.617
76	Toluene	91	9.396	9.397	(1.151)	4716933	30.0000	28.3951
78	trans-1,3-Dichloropropene	75	9.489	9.490	(1.162)	975023	30.0000	30.8752
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	477860	30.0000	30.1301
80	2-Hexanone	43	9.768	9.769	(0.933)	897720	120.000	121.148
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	911256	30.0000	30.0635
82	Tetrachloroethene	164	9.825	9.826	(0.939)	928383	30.0000	29.9446
83	Dibromochloromethane	129	10.011	10.005	(0.956)	567976	30.0000	29.7358
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	436270	30.0000	30.4209
86	1-Chlorohexane	91	10.361	10.362	(0.990)	1780530	30.0000	29.4880
88	Chlorobenzene	112	10.490	10.491	(1.002)	2735631	30.0000	29.8799
89	1,1,1,2-Tetrachloroethane	131	10.526	10.527	(1.005)	837891	30.0000	31.3158
90	Ethylbenzene	106	10.526	10.527	(1.005)	1750693	30.0000	29.5553
91	m and p-Xylene	106	10.604	10.605	(1.013)	4240145	60.0000	58.7102
92	o-Xylene	106	10.940	10.941	(1.045)	1969378	30.0000	29.2721
93	Styrene	104	10.940	10.941	(1.045)	3013465	30.0000	30.1443
94	Bromoform	173	11.162	11.163	(1.066)	247100	30.0000	32.8970
95	isopropyl benzene	105	11.212	11.213	(0.903)	4955286	30.0000	28.9838
97	Cyclohexanone	55	11.362	11.363	(1.085)	453209	1200.00	1251.84
99	1,1,2,2-Tetrachloroethane	83	11.434	11.435	(0.921)	471361	30.0000	31.4824
101	1,2,3-Trichloropropane	110	11.512	11.513	(0.927)	127672	30.0000	31.4128
103	Bromobenzene	156	11.570	11.570	(0.931)	919300	30.0000	29.9406
102	n-Propylbenzene	120	11.555	11.556	(0.930)	1550638	30.0000	29.5254
105	2-Chlorotoluene	126	11.691	11.692	(0.941)	1176759	30.0000	29.9266
104	1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	4355685	30.0000	29.4276
106	4-Chlorotoluene	126	11.777	11.778	(0.948)	1161525	30.0000	29.7591
107	tert-Butylbenzene	119	11.991	11.992	(0.965)	4478501	30.0000	29.3740
108	1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	4259190	30.0000	29.3145

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
109 sec-Butylbenzene	134	12.185	12.185	(0.981)	1246465	30.0000	29.7246
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	4884979	30.0000	29.2005
111 1,3-Dichlorobenzene	146	12.370	12.371	(0.996)	1964858	30.0000	29.6119
113 1,4-dichlorobenzene	146	12.449	12.450	(1.002)	1875484	30.0000	29.3384
115 n-Butylbenzene	91	12.678	12.679	(1.021)	4806600	30.0000	28.8229
116 1,2-Dichlorobenzene	146	12.842	12.843	(1.034)	1561029	30.0000	29.2931
117 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	67244	30.0000	31.3400
118 1,2,4-Trichlorobenzene	180	14.723	14.724	(1.185)	1058509	30.0000	29.4031
119 Hexachlorobutadiene	225	14.880	14.881	(1.198)	756625	30.0000	29.7450
120 Naphthalene	128	15.138	15.138	(1.219)	1478645	30.0000	29.7231
121 1,2,3-Trichlorobenzene	180	15.495	15.496	(1.248)	814875	30.0000	29.1350

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: E4607.D

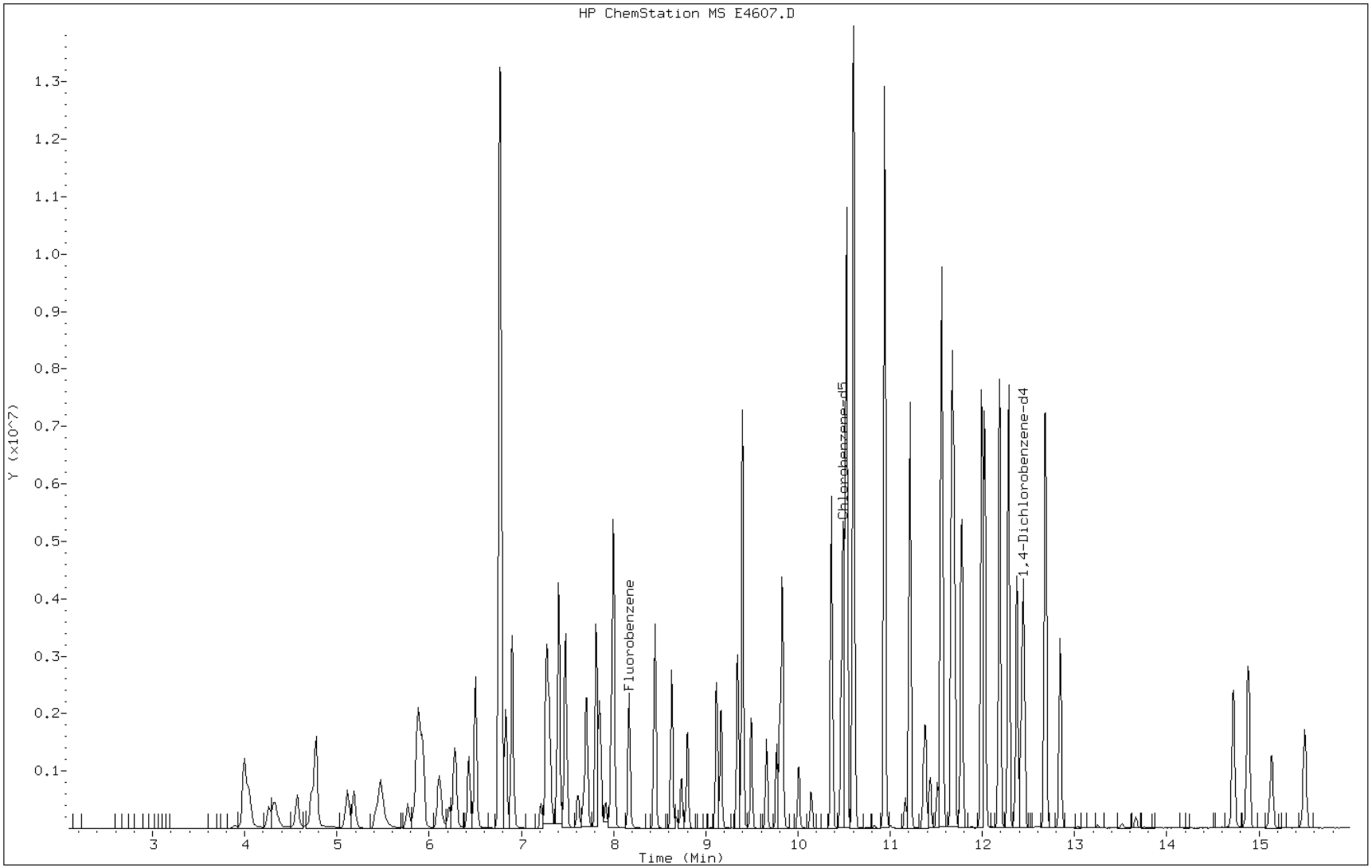
Date: 28-NOV-2011 11:55

Client ID: IC

Instrument: E.i

Sample Info: IC,,M30

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4608.D
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Inj Date : 28-NOV-2011 12:14
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,M60
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Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-mainbo.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 61	Fluorobenzene	96	8.167	8.166	(1.000)	1644487	12.5000	
* 87	Chlorobenzene-d5	119	10.469	10.469	(1.000)	392369	12.5000	
* 112	1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	530774	12.5000	(Q)
M 1	1,2-Dichloroethene (total)	96				4585299	120.000	118.919
M 2	Xylene (total)	106				12190245	180.000	168.515
M 3	1,3-Dichloropropene (total)	75				4682802	120.000	127.925
M 4	Trihalomethanes (total)	83				7127781	240.000	253.657
5	Chlorotrifluoroethene	116	4.259	4.259	(0.522)	851101	60.0000	60.7381(A)
6	dichlorodifluoromethane	85	4.329	4.329	(0.530)	2239429	60.0000	59.6914
8	Chloromethane	50	4.581	4.581	(0.561)	1782614	60.0000	59.0563
9	Vinyl Chloride	62	4.734	4.734	(0.580)	1850322	60.0000	59.5099
10	2-Chloro-1,1,1-trifluoroethan	118	4.776	4.776	(0.585)	2440239	60.0000	58.6586
12	Bromomethane	94	5.111	5.111	(0.626)	1400029	60.0000	58.7592
13	Chloroethane	64	5.181	5.181	(0.634)	1528272	60.0000	57.5930
15	Trichlorofluoromethane	101	5.474	5.474	(0.670)	3177313	60.0000	61.1041(A)
16	Ethanol	45	5.460	5.460	(0.669)	398151	3000.00	3339.21(A)
20	Acrolein	56	5.768	5.768	(0.706)	1129603	600.000	649.676(A)
22	Acetone	43	5.865	5.865	(0.718)	718529	240.000	245.502(A)
24	1,1-Dichloroethene	96	5.935	5.935	(0.727)	2329670	60.0000	61.7936(A)
25	Iodomethane	142	6.115	6.115	(0.749)	2838356	60.0000	62.0047(A)
26	Acetonitrile	41	6.115	6.115	(0.749)	714731	600.000	635.564(A)
30	tert-Butyl alcohol	59	6.222	6.222	(0.762)	1214786	1200.00	1314.46(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
31	Methylene Chloride	84	6.279	6.279	(0.769)	1846562	60.0000	56.6398
32	Acrylonitrile	53	6.429	6.429	(0.787)	2444949	600.000	632.816(A)
34	trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	2315057	60.0000	59.7674
37	Isopropyl ether	87	6.773	6.773	(0.829)	7351582	300.000	288.534
38	1,1-Dichloroethane	63	6.830	6.830	(0.836)	3719714	60.0000	58.8369
39	Chloroprene	53	6.901	6.901	(0.845)	3961627	60.0000	59.0500
42	2-Butanone	43	7.209	7.209	(0.883)	1155091	240.000	245.297(A)
45	cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	2270242	60.0000	59.1516
44	Propionitrile	54	7.273	7.273	(0.891)	880846	600.000	637.091(A)
46	2,2-Dichloropropane	77	7.302	7.302	(0.894)	2997624	60.0000	58.0675
47	Methacrylonitrile	41	7.402	7.402	(0.906)	4357141	600.000	611.043(A)
48	Bromochloromethane	128	7.473	7.473	(0.915)	745194	60.0000	62.4632(A)
49	Chloroform	83	7.481	7.481	(0.916)	3302125	60.0000	59.7980
53	1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	3251186	60.0000	60.3185(A)
52	Isobutanol	41	7.666	7.666	(0.939)	417512	1200.00	1202.82(A)
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	3300408	60.0000	58.2952
56	Carbon Tetrachloride	117	7.852	7.852	(0.961)	2853952	60.0000	62.1552(A)
58	1,2-Dichloroethane	62	7.974	7.974	(0.976)	1650927	60.0000	60.6313(A)
60	Benzene	78	7.995	7.995	(0.979)	8570528	60.0000	57.3336
62	n-Butanol	56	8.174	8.174	(1.001)	592698	1200.00	1168.54
63	Trichloroethene	95	8.446	8.446	(1.034)	2299320	60.0000	60.3745(A)
66	1,2-Dichloropropane	63	8.632	8.632	(1.057)	1937281	60.0000	60.7780(A)
68	1,4-Dioxane	88	8.675	8.675	(1.062)	358256	3000.00	3396.09(A)
69	Dibromomethane	93	8.732	8.732	(1.069)	665922	60.0000	62.6987(A)
70	Bromodichloromethane	83	8.796	8.796	(1.077)	2110079	60.0000	64.8222(A)
73	cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	2688845	60.0000	63.7148(A)
74	4-Methyl-2-pentanone	43	9.161	9.161	(1.122)	2645621	240.000	245.579(A)
76	Toluene	91	9.397	9.397	(1.151)	8949316	60.0000	54.7859
78	trans-1,3-Dichloropropene	75	9.490	9.490	(1.162)	1993957	60.0000	64.2105(A)
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	980953	60.0000	62.8989(A)
80	2-Hexanone	43	9.769	9.769	(0.933)	1826560	240.000	240.355(A)
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	1851705	60.0000	59.5685
82	Tetrachloroethene	164	9.826	9.826	(0.939)	1927517	60.0000	60.6227(A)
83	Dibromochloromethane	129	10.005	10.005	(0.956)	1187181	60.0000	60.4425(A)
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	904055	60.0000	61.4692(A)
86	1-Chlorohexane	91	10.362	10.362	(0.990)	3588635	60.0000	57.9523
88	Chlorobenzene	112	10.491	10.491	(1.002)	5521747	60.0000	58.8091
89	1,1,1,2-Tetrachloroethane	131	10.527	10.527	(1.005)	1733229	60.0000	63.1651(A)
90	Ethylbenzene	106	10.527	10.527	(1.005)	3560109	60.0000	58.6050
91	m and p-Xylene	106	10.605	10.605	(1.013)	8228702	120.000	111.099
92	o-Xylene	106	10.941	10.941	(1.045)	3961543	60.0000	57.4162
93	Styrene	104	10.941	10.941	(1.045)	6025071	60.0000	58.7688
94	Bromoform	173	11.163	11.163	(1.066)	528396	60.0000	68.5945(A)
95	isopropyl benzene	105	11.213	11.213	(0.903)	9575691	60.0000	54.0421
97	Cyclohexanone	55	11.363	11.363	(1.085)	915168	2400.00	2464.88(A)
99	1,1,2,2-Tetrachloroethane	83	11.435	11.435	(0.921)	980148	60.0000	63.1657(A)
101	1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	270953	60.0000	64.3252(A)
103	Bromobenzene	156	11.570	11.570	(0.931)	1961654	60.0000	61.6455(A)
102	n-Propylbenzene	120	11.556	11.556	(0.930)	3217665	60.0000	59.1156
105	2-Chlorotoluene	126	11.692	11.692	(0.941)	2436499	60.0000	59.7877
104	1,3,5-Trimethylbenzene	105	11.671	11.671	(0.940)	8579988	60.0000	55.9321
106	4-Chlorotoluene	126	11.778	11.778	(0.948)	2431055	60.0000	60.0982(A)
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	9000061	60.0000	56.9576
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	8492418	60.0000	56.3979

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
109 sec-Butylbenzene	134	12.185	12.185	(0.981)	2599120	60.0000	59.8051
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	9682694	60.0000	55.8470
111 1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	4160840	60.0000	60.5051(A)
113 1,4-dichlorobenzene	146	12.450	12.450	(1.002)	4007573	60.0000	60.4894(A)
115 n-Butylbenzene	91	12.679	12.679	(1.021)	9510899	60.0000	55.0296
116 1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	3335231	60.0000	60.3888(A)
117 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	150807	60.0000	67.8176(A)
118 1,2,4-Trichlorobenzene	180	14.724	14.724	(1.185)	2373055	60.0000	63.6037(A)
119 Hexachlorobutadiene	225	14.881	14.881	(1.198)	1714824	60.0000	65.0473(A)
120 Naphthalene	128	15.138	15.138	(1.219)	3311289	60.0000	64.2248(A)
121 1,2,3-Trichlorobenzene	180	15.496	15.496	(1.248)	1848210	60.0000	63.7604(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: E4608.D

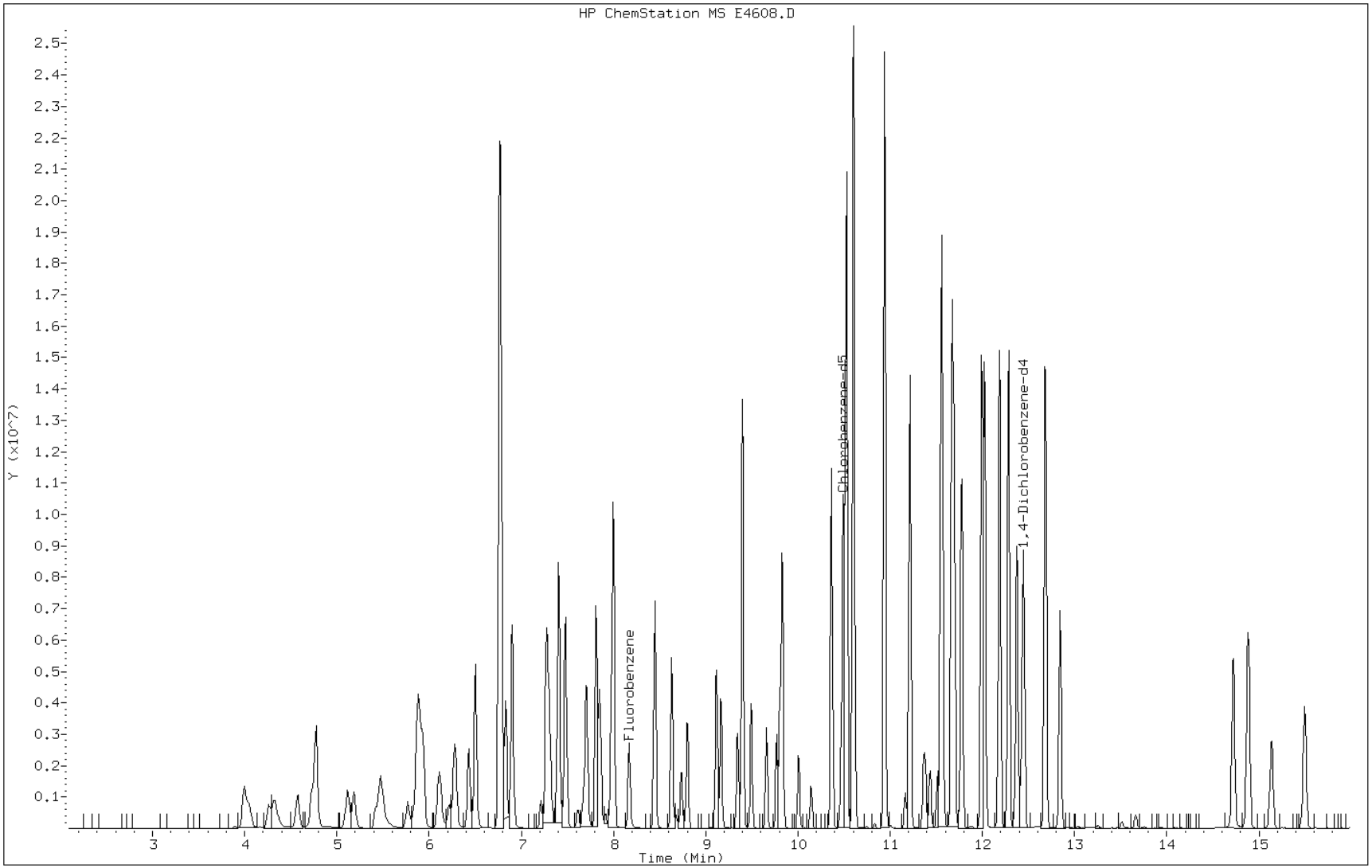
Date: 28-NOV-2011 12:14

Client ID: IC

Instrument: E.i

Sample Info: IC,,M60

Operator: MEIERG



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 13:31 Calibration End Date: 11/28/2011 15:06 Calibration ID: 7918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-97801/12	E4612.D
Level 2	IC 280-97801/13	E4613.D
Level 3	IC 280-97801/14	E4614.D
Level 4	ICIS 280-97801/15	E4615.D
Level 5	IC 280-97801/16	E4616.D
Level 6	IC 280-97801/17	E4617.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.0854	0.0770	0.0948	0.0988	0.0982	Ave		0.0908				10.4		15.0			
Ethylene oxide	0.0053 +++++	0.0058	0.0059	0.0062	0.0055	Ave		0.0058				6.4		15.0			
Dichlorofluoromethane	0.5790 0.5059	0.5426	0.5745	0.5901	0.5709	Ave		0.5605				5.5		15.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.3209 0.2922	0.3170	0.3261	0.3326	0.3243	Ave		0.3188				4.4		15.0			
Ethyl ether	0.1470 0.1246	0.1391	0.1429	0.1442	0.1396	Ave		0.1396				5.6		15.0			
2,2-Dichloro-1,1,1-trifluoroethane	0.4600 0.4101	0.4669	0.4656	0.4796	0.4612	Ave		0.4572				5.3		15.0			
1,1,2-Trichlorotrifluoroethane	0.2410 0.2412	0.2292	0.2486	0.2597	0.2525	Ave		0.2453				4.3		15.0			
2-Propanol	0.0051 0.0044	0.0050	0.0053	0.0049	0.0051	Ave		0.0050				6.2		15.0			
Methyl acetate	0.0633 0.0559	0.0592	0.0639	0.0628	0.0626	Ave		0.0613				5.0		15.0			
Allyl chloride	0.4771 0.4392	0.4698	0.4774	0.5000	0.4889	Ave		0.4754				4.3		15.0			
Carbon disulfide	1.1283 1.0501	1.0954	1.1844	1.2262	1.1768	Ave		1.1435				5.7		15.0			
Methyl tert-butyl ether	0.4022 0.3649	0.3953	0.4039	0.4161	0.4082	Ave		0.3984				4.5		15.0			
Hexane	2.4162 2.4185	2.3520	2.4847	2.5628	2.4302	Ave		2.4441				2.9		15.0			
Vinyl acetate	0.2281 0.1774	0.2169	0.2267	0.2217	0.2186	Ave		0.2149				8.8		15.0			
Tert-butyl ethyl ether	0.5839 0.4245	0.5791	0.6046	0.6038	0.5486	Ave		0.5574				12.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 13:31 Calibration End Date: 11/28/2011 15:06 Calibration ID: 7918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl acetate	+++++ 0.0735	0.0807	0.0836	0.0827	0.0815	Ave		0.0804				5.0		15.0			
Tetrahydrofuran	+++++ 0.0219	0.0237	0.0240	0.0254	0.0245	Ave		0.0239				5.4		15.0			
Cyclohexane	0.6414 0.5529	0.6187	0.6435	0.6609	0.6263	Ave		0.6239				6.1		15.0			
Tert-amyl methyl ether	0.4543 0.3487	0.4468	0.4662	0.4639	0.4354	Ave		0.4359				10.1		15.0			
2-Pentanone	0.0553 0.0531	0.0563	0.0580	0.0585	0.0587	Ave		0.0566				3.8		15.0			
Methyl methacrylate	0.0244 0.0260	0.0258	0.0276	0.0286	0.0288	Ave		0.0269				6.6		15.0			
Methylcyclohexane	0.5044 0.4344	0.4954	0.5096	0.5213	0.4984	Ave		0.4939				6.2		15.0			
2-Chloroethyl vinyl ether	+++++ 0.0634	0.0606	0.0637	0.0672	0.0692	Ave		0.0648				5.2		15.0			
2-Nitropropane	0.0240 +++++	0.0246	0.0209	0.0218	0.0219	Ave		0.0226				6.9		15.0			
Ethyl methacrylate	+++++ 0.7100	0.6248	0.6697	0.6920	0.6896	Ave		0.6772				4.8		15.0			
Tetrahydrothiophene	+++++ 0.3685	0.3198	0.3262	0.3499	0.3553	Ave		0.3439				5.9		15.0			
cis-1,4-Dichloro-2-butene	+++++ 0.1126	0.0898	0.0947	0.1054	0.1023	Ave		0.1010				8.9		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1109	0.0914	0.0901	0.1036	0.1021	Ave		0.0996				8.8		15.0			
1,2,3-Trimethylbenzene	3.3247 3.3579	3.2068	3.2514	3.3283	3.2810	Ave		3.2917				1.7		15.0			
Dibromofluoromethane (Surr)	0.2248 0.1875	0.2099	0.1998	0.2092	0.2131	Ave		0.2074				6.1		15.0			
1,2-Dichloroethane-d4 (Surr)	0.1848 0.1487	0.1747	0.1652	0.1718	0.1673	Ave		0.1687				7.1		15.0			
Toluene-d8 (Surr)	5.1061 4.3571	4.8075	4.5317	4.7253	4.5692	Ave		4.6828				5.6		15.0			
4-Bromofluorobenzene (Surr)	1.2074 1.0751	1.0830	1.0077	1.0583	1.0381	Ave		1.0783				6.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 13:31 Calibration End Date: 11/28/2011 15:06 Calibration ID: 7918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-97801/12	E4612.D
Level 2	IC 280-97801/13	E4613.D
Level 3	IC 280-97801/14	E4614.D
Level 4	ICIS 280-97801/15	E4615.D
Level 5	IC 280-97801/16	E4616.D
Level 6	IC 280-97801/17	E4617.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	FB	Ave	+++++ 757404	20455	64792	130839	387384	+++++ 60.0	2.00	5.00	10.0	30.0
Ethylene oxide	FB	Ave	88629 +++++	194320	506604	1030824	2695178	125 +++++	250	625	1250	3750
Dichlorofluoromethane	FB	Ave	77298 4489740	144220	392677	781067	2252345	1.00 60.0	2.00	5.00	10.0	30.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	42841 2592856	84249	222900	440242	1279275	1.00 60.0	2.00	5.00	10.0	30.0
Ethyl ether	FB	Ave	19621 1105929	36977	97684	190818	550595	1.00 60.0	2.00	5.00	10.0	30.0
2,2-Dichloro-1,1,1-trifluoroethane	FB	Ave	61405 3639075	124102	318212	634867	1819495	1.00 60.0	2.00	5.00	10.0	30.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	32169 2140561	60905	169923	343709	995986	1.00 60.0	2.00	5.00	10.0	30.0
2-Propanol	FB	Ave	13528 782921	26358	72684	129096	405633	20.0 1200	40.0	100	200	600
Methyl acetate	FB	Ave	42263 2482160	78730	218294	415543	1235270	5.00 300	10.0	25.0	50.0	150
Allyl chloride	FB	Ave	63690 3897068	124874	326316	661814	1928889	1.00 60.0	2.00	5.00	10.0	30.0
Carbon disulfide	FB	Ave	150624 9318156	291140	809498	1623135	4642629	1.00 60.0	2.00	5.00	10.0	30.0
Methyl tert-butyl ether	FB	Ave	53695 3238129	105065	276045	550737	1610392	1.00 60.0	2.00	5.00	10.0	30.0
Hexane	CBZ	Ave	73141 4214413	140954	382103	756334	2135243	1.00 60.0	2.00	5.00	10.0	30.0
Vinyl acetate	FB	Ave	60907 3147846	115284	309870	586843	1724666	2.00 120	4.00	10.0	20.0	60.0
Tert-butyl ethyl ether	FB	Ave	389733 18833777	769573	2065932	3996506	10821958	5.00 300	10.0	25.0	50.0	150
Ethyl acetate	FB	Ave	+++++ 1303951	42915	114293	218993	642831	+++++ 120	4.00	10.0	20.0	60.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 97801

SDG No.:

Instrument ID: MSV_E GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/28/2011 13:31 Calibration End Date: 11/28/2011 15:06 Calibration ID: 7918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Tetrahydrofuran	FB	Ave	+++++ 389157	12579	32869	67247	193688	+++++ 120	4.00	10.0	20.0	60.0
Cyclohexane	FB	Ave	85623 4906699	164434	439803	874867	2470636	1.00 60.0	2.00	5.00	10.0	30.0
Tert-amyl methyl ether	FB	Ave	303221 15470183	593784	1593079	3070582	8588550	5.00 300	10.0	25.0	50.0	150
2-Pentanone	FB	Ave	29544 1886262	59824	158518	309648	925906	4.00 240	8.00	20.0	40.0	120
Methyl methacrylate	FB	Ave	6502 460599	13733	37791	75748	227625	2.00 120	4.00	10.0	20.0	60.0
Methylcyclohexane	FB	Ave	67341 3854637	131678	348309	690025	1966028	1.00 60.0	2.00	5.00	10.0	30.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 562958	16117	43523	89010	272820	+++++ 60.0	2.00	5.00	10.0	30.0
2-Nitropropane	FB	Ave	3208 +++++	6525	14300	28796	86562	1.00 +++++	2.00	5.00	10.0	30.0
Ethyl methacrylate	CBZ	Ave	+++++ 2474312	74884	205980	408455	1211798	+++++ 120	4.00	10.0	20.0	60.0
Tetrahydrothiophene	CBZ	Ave	+++++ 642056	19166	50160	103258	312151	+++++ 60.0	2.00	5.00	10.0	30.0
cis-1,4-Dichloro-2-butene	DCB	Ave	+++++ 259668	7048	20010	40355	120837	+++++ 60.0	2.00	5.00	10.0	30.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 255733	7175	19036	39651	120545	+++++ 60.0	2.00	5.00	10.0	30.0
1,2,3-Trimethylbenzene	DCB	Ave	137222 7743011	251792	687152	1273951	3875420	1.00 60.0	2.00	5.00	10.0	30.0
Dibromofluoromethane (Surr)	FB	Ave	30010 1663469	55791	136526	276958	840582	1.00 60.0	2.00	5.00	10.0	30.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	24671 1319553	46430	112899	227363	659940	1.00 60.0	2.00	5.00	10.0	30.0
Toluene-d8 (Surr)	CBZ	Ave	154563 7592505	288114	696898	1394502	4014669	1.00 60.0	2.00	5.00	10.0	30.0
4-Bromofluorobenzene (Surr)	DCB	Ave	49833 2479076	85031	212957	405069	1226184	1.00 60.0	2.00	5.00	10.0	30.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4612.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 13:31
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,S1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1668724	12.5000	
* 87 Chlorobenzene-d5	119	10.468	10.468	(1.000)	378382	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.420	12.420	(1.000)	515918	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.615	7.615	(0.933)	30010	1.00000	1.08403
$ 57 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	24671	1.00000	1.09521
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	154563	1.00000	1.09038
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	49833	1.00000	1.11976
7 1,2-Dichlorotetrafluoroethane	85	4.498	4.498	(0.551)	9173	1.00000	0.756492(a)
11 Ethylene Oxide	43	5.043	5.043	(0.618)	88629	125.000	115.318(a)
14 Dichlorofluoromethane	67	5.336	5.336	(0.653)	77298	1.00000	1.03300(a)
17 1,2-dichloro-1,1,2-trifluoro	117	5.587	5.587	(0.684)	42841	1.00000	1.00647(a)
18 Ethyl Ether	59	5.615	5.615	(0.688)	19621	1.00000	1.05312(a)
19 2,2-dichloro-1,1,1-trifluoro	83	5.629	5.629	(0.689)	61405	1.00000	1.00598(a)
21 Trichlorotrifluoroethane	151	5.881	5.881	(0.720)	32169	1.00000	0.982153(a)
23 2-propanol	45	5.881	5.881	(0.720)	13528	20.0000	20.4225(aQ)
27 Methyl Acetate	43	6.114	6.114	(0.749)	42263	5.00000	5.16457
28 Allyl Chloride	41	6.178	6.178	(0.757)	63690	1.00000	1.00353(a)
29 Carbon Disulfide	76	6.200	6.200	(0.759)	150624	1.00000	0.986663(a)
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	53695	1.00000	1.00950(a)
35 Hexane	57	6.664	6.664	(0.637)	73141	1.00000	0.988613(a)
36 Vinyl acetate	43	6.757	6.757	(0.828)	60907	2.00000	2.12317(a)
40 ETBE	59	7.058	7.058	(0.864)	389733	5.00000	5.23738

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	24730	2.00000	2.30398(aQ)
43 2-Butanol	45	7.244	7.244	(0.887)	22111	30.0000	28.0330
50 Tetrahydrofuran	42	7.508	7.508	(0.919)	7524	2.00000	2.35646(a)
54 Cyclohexane	56	7.780	7.780	(0.953)	85623	1.00000	1.02794(a)
59 TAME	73	7.973	7.973	(0.976)	303221	5.00000	5.21093
64 2-Pentanone	43	8.481	8.481	(1.039)	29544	4.00000	3.90678(a)
67 Methyl Cyclohexane	55	8.638	8.638	(1.058)	67341	1.00000	1.02129
65 Methyl Methacrylate	100	8.566	8.566	(1.049)	6502	2.00000	1.81228(a)
72 2-nitropropane	41	8.938	8.938	(1.095)	3208	1.00000	1.06141(a)
71 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	8365	1.00000	0.966501(a)
77 Ethyl methacrylate	69	9.467	9.467	(0.904)	36825	2.00000	1.79638(a)
84 Tetrahydrothiophene	60	10.061	10.061	(0.961)	9462	1.00000	0.908881(a)
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	3954	1.00000	0.948909(aQ)
100 t-1,4-Dichloro-2-butene	53	11.469	11.469	(0.923)	3602	1.00000	0.876210(a)
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	137222	1.00000	1.01002

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4612.D

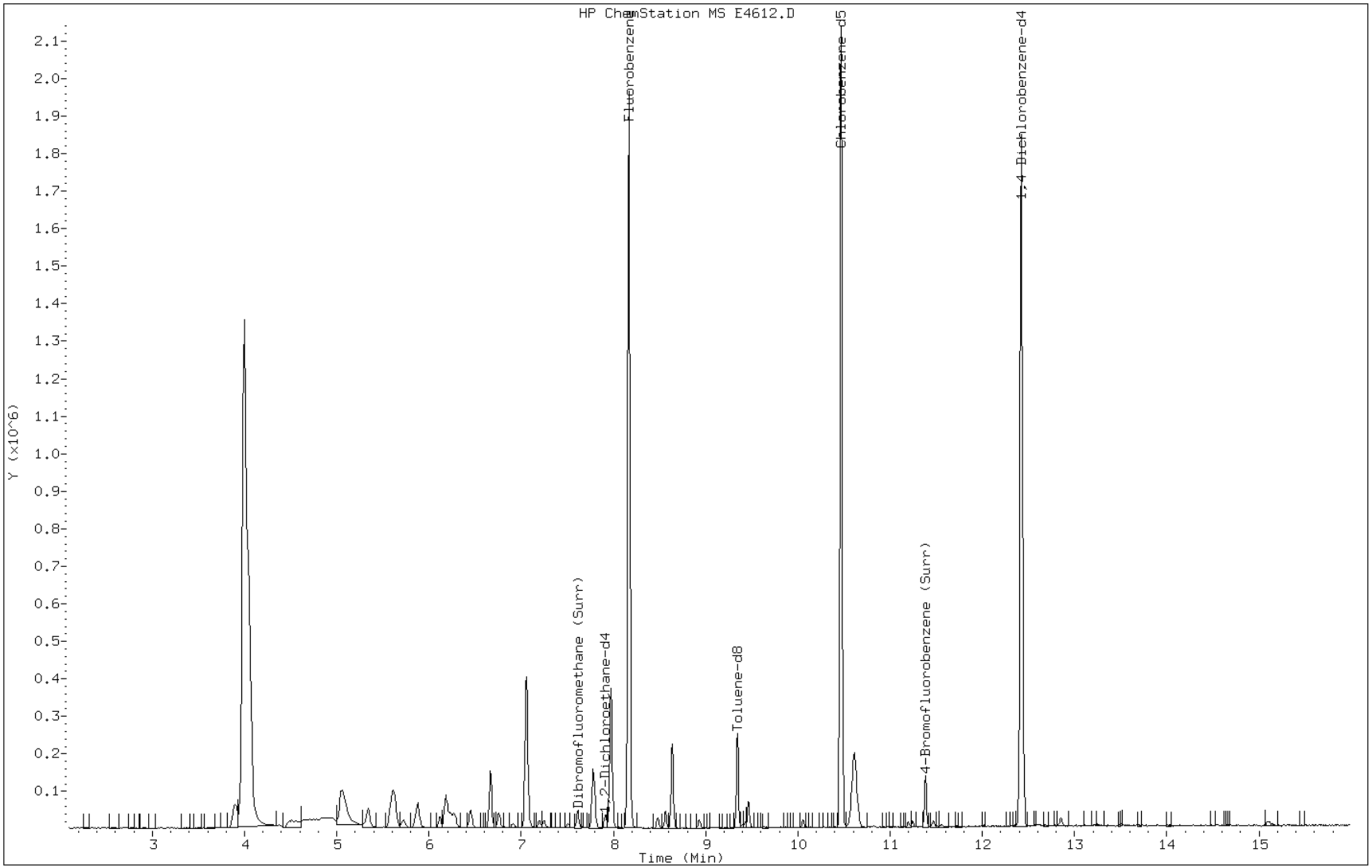
Date: 28-NOV-2011 13:31

Client ID: IC

Instrument: E.i

Sample Info: IC,,S1.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4613.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 13:50
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,S2.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 13:31 Cal File: E4612.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.167	8.167	(1.000)	1661107	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	374561	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	490731	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.932)	55791	2.00000	2.02454
$ 57 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	46430	2.00000	2.07060
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	288114	2.00000	2.05327
$ 98 4-Bromofluorobenzene (Surr)	95	11.377	11.377	(0.916)	85031	2.00000	2.00874
7 1,2-Dichlorotetrafluoroethane	85	4.497	4.497	(0.551)	20455	2.00000	1.69465(aQ)
11 Ethylene Oxide	43	5.056	5.056	(0.619)	194320	250.000	253.995(a)
14 Dichlorofluoromethane	67	5.335	5.335	(0.653)	144220	2.00000	1.93617(a)
17 1,2-dichloro-1,1,2-trifluoro	117	5.601	5.601	(0.686)	84249	2.00000	1.98836(a)
18 Ethyl Ether	59	5.615	5.615	(0.688)	36977	2.00000	1.99376(a)
19 2,2-dichloro-1,1,1-trifluoro	83	5.629	5.629	(0.689)	124102	2.00000	2.04245
21 Trichlorotrifluoroethane	151	5.880	5.880	(0.720)	60905	2.00000	1.86802(a)
23 2-propanol	45	5.880	5.880	(0.720)	26358	40.0000	39.9738(a)
27 Methyl Acetate	43	6.115	6.115	(0.749)	78730	10.0000	9.66498
28 Allyl Chloride	41	6.179	6.179	(0.757)	124874	2.00000	1.97659(a)
29 Carbon Disulfide	76	6.229	6.229	(0.763)	291140	2.00000	1.91586(a)
33 Methyl t-butyl ether	73	6.451	6.451	(0.790)	105065	2.00000	1.98434(a)
35 Hexane	57	6.665	6.665	(0.637)	140954	2.00000	1.92464(a)
36 Vinyl acetate	43	6.758	6.758	(0.828)	115284	4.00000	4.03715
40 ETBE	59	7.058	7.058	(0.864)	769573	10.0000	10.3892

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
41	Ethyl Acetate	43	7.194	7.194	(0.881)	42915	4.00000	4.01653(aQ)
43	2-Butanol	45	7.244	7.244	(0.887)	40443	60.0000	51.5100
50	Tetrahydrofuran	42	7.509	7.509	(0.919)	12579	4.00000	3.95771(aQ)
54	Cyclohexane	56	7.781	7.781	(0.953)	164434	2.00000	1.98315(a)
59	TAME	73	7.974	7.974	(0.976)	593784	10.0000	10.2511
64	2-Pentanone	43	8.474	8.474	(1.038)	59824	8.00000	7.94717
67	Methyl Cyclohexane	55	8.639	8.639	(1.058)	131678	2.00000	2.00617
65	Methyl Methacrylate	100	8.567	8.567	(1.049)	13733	4.00000	3.84532(a)
72	2-nitropropane	41	8.932	8.932	(1.094)	6525	2.00000	2.16878(a)
71	2-Chloroethyl vinyl ether	63	8.932	8.932	(1.094)	16117	2.00000	1.87071(aQ)
77	Ethyl methacrylate	69	9.461	9.461	(0.904)	74884	4.00000	3.69023
84	Tetrahydrothiophene	60	10.054	10.054	(0.960)	19166	2.00000	1.85979(a)
96	cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	7048	2.00000	1.77824(aQ)
100	t-1,4-Dichloro-2-butene	53	11.463	11.463	(0.923)	7175	2.00000	1.83495(a)
114	1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	251792	2.00000	1.94844

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4613.D

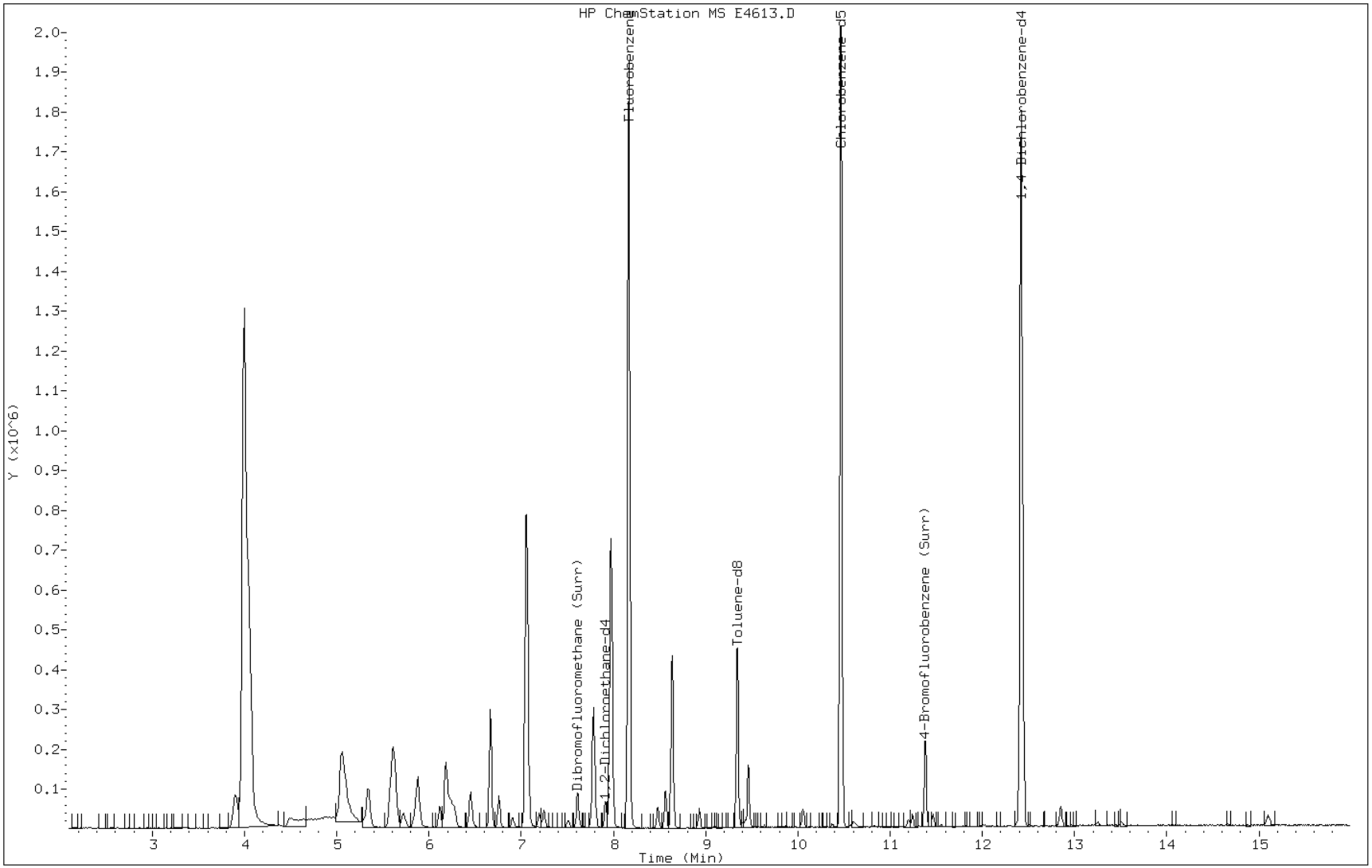
Date: 28-NOV-2011 13:50

Client ID: IC

Instrument: E.i

Sample Info: IC,,S2.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4614.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 14:09
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,S5.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 13:50 Cal File: E4613.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1708647	12.5000	
* 87 Chlorobenzene-d5	119	10.468	10.468	(1.000)	384454	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.420	12.420	(1.000)	528343	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.615	7.615	(0.933)	136526	5.00000	4.81641
$ 57 1,2-Dichloroethane-d4	65	7.916	7.916	(0.969)	112899	5.00000	4.89477
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	696898	5.00000	4.83870
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	212957	5.00000	4.67268
7 1,2-Dichlorotetrafluoroethane	85	4.496	4.496	(0.551)	64792	5.00000	5.21851
11 Ethylene Oxide	43	5.055	5.055	(0.619)	506604	625.000	643.756
14 Dichlorofluoromethane	67	5.348	5.348	(0.655)	392677	5.00000	5.12506
17 1,2-dichloro-1,1,2-trifluoro	117	5.599	5.599	(0.686)	222900	5.00000	5.11428
18 Ethyl Ether	59	5.613	5.613	(0.687)	97684	5.00000	5.12048
19 2,2-dichloro-1,1,1-trifluoro	83	5.641	5.641	(0.691)	318212	5.00000	5.09136
21 Trichlorotrifluoroethane	151	5.879	5.879	(0.720)	169923	5.00000	5.06671
23 2-propanol	45	5.879	5.879	(0.720)	72684	100.000	107.163
27 Methyl Acetate	43	6.114	6.114	(0.749)	218294	25.0000	26.0524
28 Allyl Chloride	41	6.178	6.178	(0.757)	326316	5.00000	5.02145
29 Carbon Disulfide	76	6.236	6.236	(0.764)	809498	5.00000	5.17872
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	276045	5.00000	5.06854
35 Hexane	57	6.665	6.665	(0.637)	382103	5.00000	5.08314
36 Vinyl acetate	43	6.757	6.757	(0.828)	309870	10.0000	10.5495
40 ETBE	59	7.058	7.058	(0.864)	2065932	25.0000	27.1141

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	114293	10.0000	10.3994
43 2-Butanol	45	7.244	7.244	(0.887)	126269	150.000	156.347
50 Tetrahydrofuran	42	7.508	7.508	(0.919)	32869	10.0000	10.0538
54 Cyclohexane	56	7.780	7.780	(0.953)	439803	5.00000	5.15664
59 TAME	73	7.973	7.973	(0.976)	1593079	25.0000	26.7378
64 2-Pentanone	43	8.481	8.481	(1.039)	158518	20.0000	20.4720
67 Methyl Cyclohexane	55	8.638	8.638	(1.058)	348309	5.00000	5.15899
65 Methyl Methacrylate	100	8.566	8.566	(1.049)	37791	10.0000	10.2873
72 2-nitropropane	41	8.938	8.938	(1.095)	14300	5.00000	4.62080
71 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	43523	5.00000	4.91120
77 Ethyl methacrylate	69	9.467	9.467	(0.904)	205980	10.0000	9.88934
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	50160	5.00000	4.74207
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	20010	5.00000	4.68921
100 t-1,4-Dichloro-2-butene	53	11.462	11.462	(0.923)	19036	5.00000	4.52173
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	687152	5.00000	4.93885

Data File: E4614.D

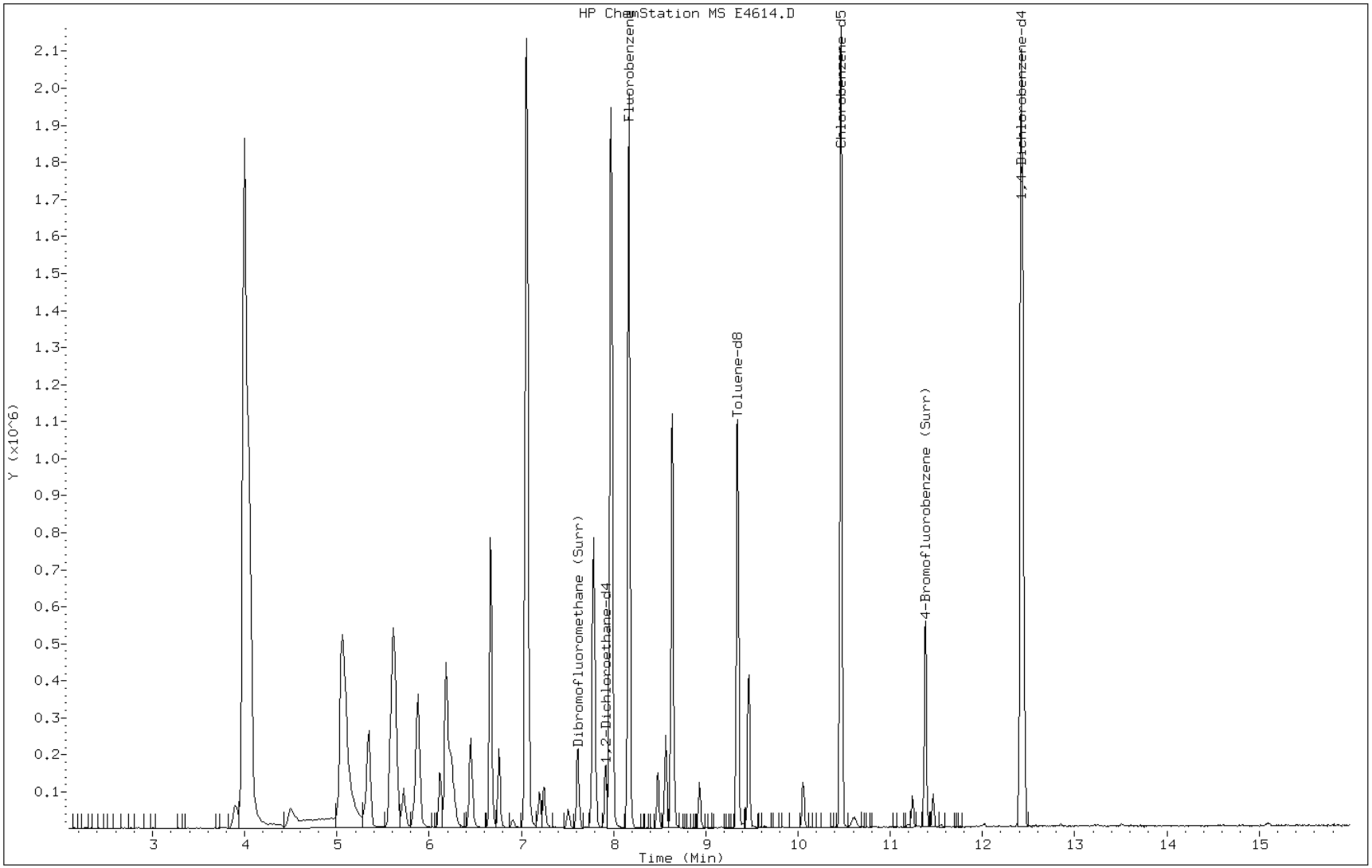
Date: 28-NOV-2011 14:09

Client ID: IC

Instrument: E.i

Sample Info: IC,,S5.0

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4615.D
Lab Smp Id: ICIS Client Smp ID: ICIS
Inj Date : 28-NOV-2011 14:28
Operator : MEIERG Inst ID: E.i
Smp Info : ICIS,,S10
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 14:09 Cal File: E4614.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1654639	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	368895	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	478447	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.932)	276958	10.0000	10.0895
$ 57 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	227363	10.0000	10.1791
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	1394502	10.0000	10.0907
$ 98 4-Bromofluorobenzene (Surr)	95	11.377	11.377	(0.916)	405069	10.0000	9.81489
7 1,2-Dichlorotetrafluoroethane	85	4.496	4.496	(0.551)	130839	10.0000	10.8821
11 Ethylene Oxide	43	5.054	5.054	(0.619)	1030824	1250.00	1352.65
14 Dichlorofluoromethane	67	5.348	5.348	(0.655)	781067	10.0000	10.5269
17 1,2-dichloro-1,1,2-trifluoro	117	5.599	5.599	(0.686)	440242	10.0000	10.4307
18 Ethyl Ether	59	5.613	5.613	(0.687)	190818	10.0000	10.3289
19 2,2-dichloro-1,1,1-trifluoro	83	5.641	5.641	(0.691)	634867	10.0000	10.4894
21 Trichlorotrifluoroethane	151	5.878	5.878	(0.720)	343709	10.0000	10.5831
23 2-propanol	45	5.878	5.878	(0.720)	129096	200.000	196.548
27 Methyl Acetate	43	6.114	6.114	(0.749)	415543	50.0000	51.2119
28 Allyl Chloride	41	6.179	6.179	(0.757)	661814	10.0000	10.5166
29 Carbon Disulfide	76	6.236	6.236	(0.764)	1623135	10.0000	10.7229
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	550737	10.0000	10.4423
35 Hexane	57	6.665	6.665	(0.637)	756334	10.0000	10.4859
36 Vinyl acetate	43	6.758	6.758	(0.828)	586843	20.0000	20.6311
40 ETBE	59	7.058	7.058	(0.864)	3996506	50.0000	54.1637

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	218993	20.0000	20.5763
43 2-Butanol	45	7.244	7.244	(0.887)	245904	300.000	314.418
50 Tetrahydrofuran	42	7.509	7.509	(0.919)	67247	20.0000	21.2405
54 Cyclohexane	56	7.780	7.780	(0.953)	874867	10.0000	10.5925
59 TAME	73	7.973	7.973	(0.976)	3070582	50.0000	53.2179
64 2-Pentanone	43	8.474	8.474	(1.038)	309648	40.0000	41.2952
67 Methyl Cyclohexane	55	8.638	8.638	(1.058)	690025	10.0000	10.5539
65 Methyl Methacrylate	100	8.567	8.567	(1.049)	75748	20.0000	21.2928
72 2-nitropropane	41	8.939	8.939	(1.095)	28796	10.0000	9.60864
71 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	89010	10.0000	10.3718
77 Ethyl methacrylate	69	9.468	9.468	(0.904)	408455	20.0000	20.4375
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	103258	10.0000	10.1736
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	40355	10.0000	10.4432
100 t-1,4-Dichloro-2-butene	53	11.463	11.463	(0.923)	39651	10.0000	10.4008
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	1273951	10.0000	10.1113

Data File: E4615.D

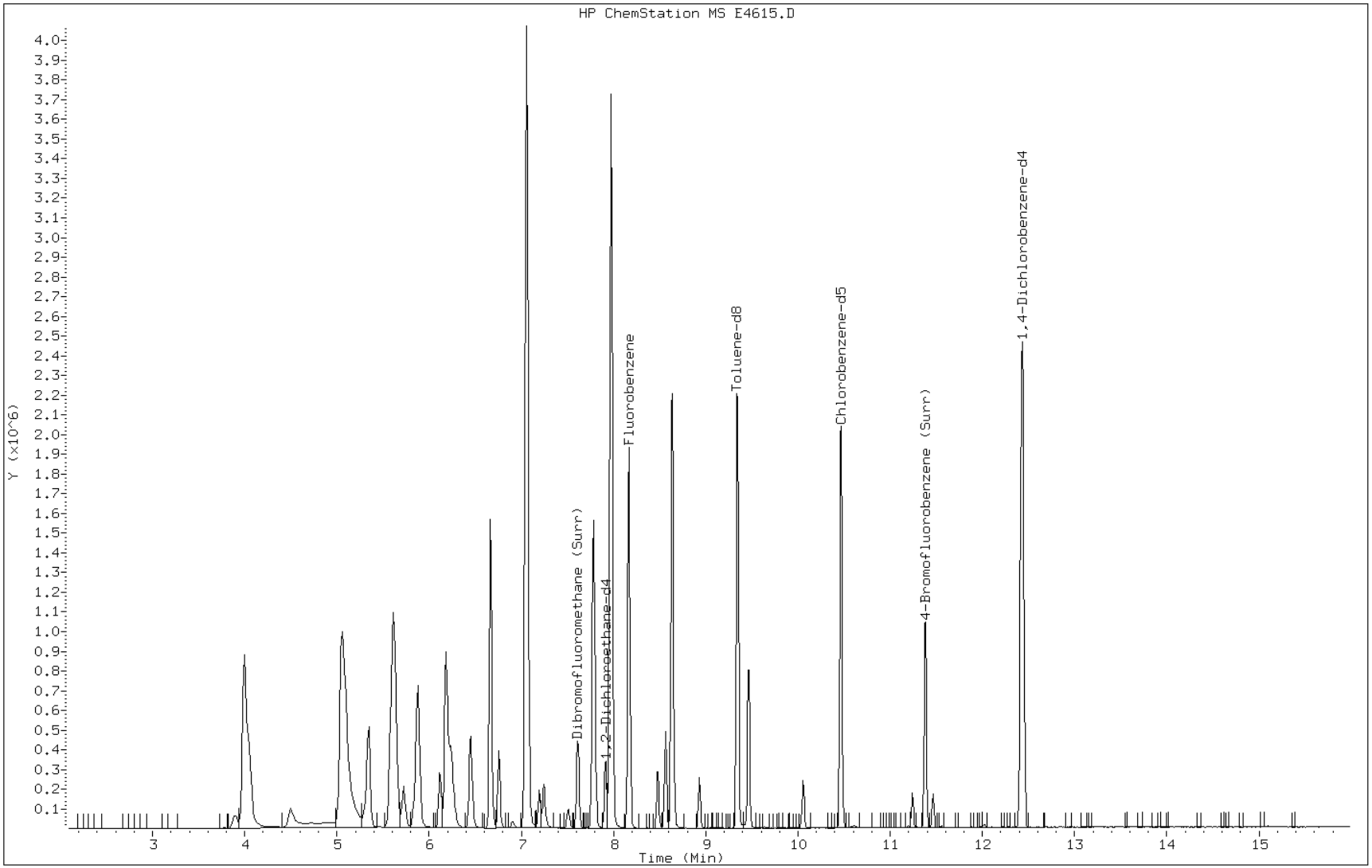
Date: 28-NOV-2011 14:28

Client ID: ICIS

Instrument: E.i

Sample Info: ICIS,,S10

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4616.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 14:47
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,S30
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 14:28 Cal File: E4615.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	61 Fluorobenzene	96	8.167	8.167	(1.000)	1643755	12.5000	
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	366102	12.5000	
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	492157	12.5000	
$	51 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.932)	840582	30.0000	30.8250
$	57 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	659940	30.0000	29.7414
$	75 Toluene-d8	98	9.339	9.339	(0.892)	4014669	30.0000	29.2720
$	98 4-Bromofluorobenzene (Surr)	95	11.377	11.377	(0.916)	1226184	30.0000	28.8830
	7 1,2-Dichlorotetrafluoroethane	85	4.482	4.482	(0.549)	387384	30.0000	32.4326
	11 Ethylene Oxide	43	5.041	5.041	(0.617)	2695178	3750.00	3560.04
	14 Dichlorofluoromethane	67	5.334	5.334	(0.653)	2252345	30.0000	30.5572
	17 1,2-dichloro-1,1,2-trifluoro	117	5.600	5.600	(0.686)	1279275	30.0000	30.5108
	18 Ethyl Ether	59	5.614	5.614	(0.687)	550595	30.0000	30.0009
	19 2,2-dichloro-1,1,1-trifluoro	83	5.628	5.628	(0.689)	1819495	30.0000	30.2610
	21 Trichlorotrifluoroethane	151	5.879	5.879	(0.720)	995986	30.0000	30.8704
	23 2-propanol	45	5.879	5.879	(0.720)	405633	600.000	621.665
	27 Methyl Acetate	43	6.115	6.115	(0.749)	1235270	150.000	153.244
	28 Allyl Chloride	41	6.172	6.172	(0.756)	1928889	30.0000	30.8541
	29 Carbon Disulfide	76	6.229	6.229	(0.763)	4642629	30.0000	30.8735
	33 Methyl t-butyl ether	73	6.444	6.444	(0.789)	1610392	30.0000	30.7362
	35 Hexane	57	6.665	6.665	(0.637)	2135243	30.0000	29.8292
	36 Vinyl acetate	43	6.751	6.751	(0.827)	1724666	60.0000	61.0339
	40 ETBE	59	7.051	7.051	(0.863)	10821958	150.000	147.638

	QUANT SIG					AMOUNTS	
						CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	642831	60.0000	60.7994
43 2-Butanol	45	7.244	7.244	(0.887)	756489	900.000	973.669
50 Tetrahydrofuran	42	7.502	7.502	(0.919)	193688	60.0000	61.5831
54 Cyclohexane	56	7.781	7.781	(0.953)	2470636	30.0000	30.1115
59 TAME	73	7.974	7.974	(0.976)	8588550	150.000	149.838
64 2-Pentanone	43	8.474	8.474	(1.038)	925906	120.000	124.298
67 Methyl Cyclohexane	55	8.631	8.631	(1.057)	1966028	30.0000	30.2695
65 Methyl Methacrylate	100	8.560	8.560	(1.048)	227625	60.0000	64.4091
72 2-nitropropane	41	8.932	8.932	(1.094)	86562	30.0000	29.0752
71 2-Chloroethyl vinyl ether	63	8.925	8.925	(1.093)	272820	30.0000	32.0007
77 Ethyl methacrylate	69	9.461	9.461	(0.904)	1211798	60.0000	61.0963
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	312151	30.0000	30.9897
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	120837	30.0000	30.3994
100 t-1,4-Dichloro-2-butene	53	11.463	11.463	(0.923)	120545	30.0000	30.7391
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	3875420	30.0000	29.9023

Data File: E4616.D

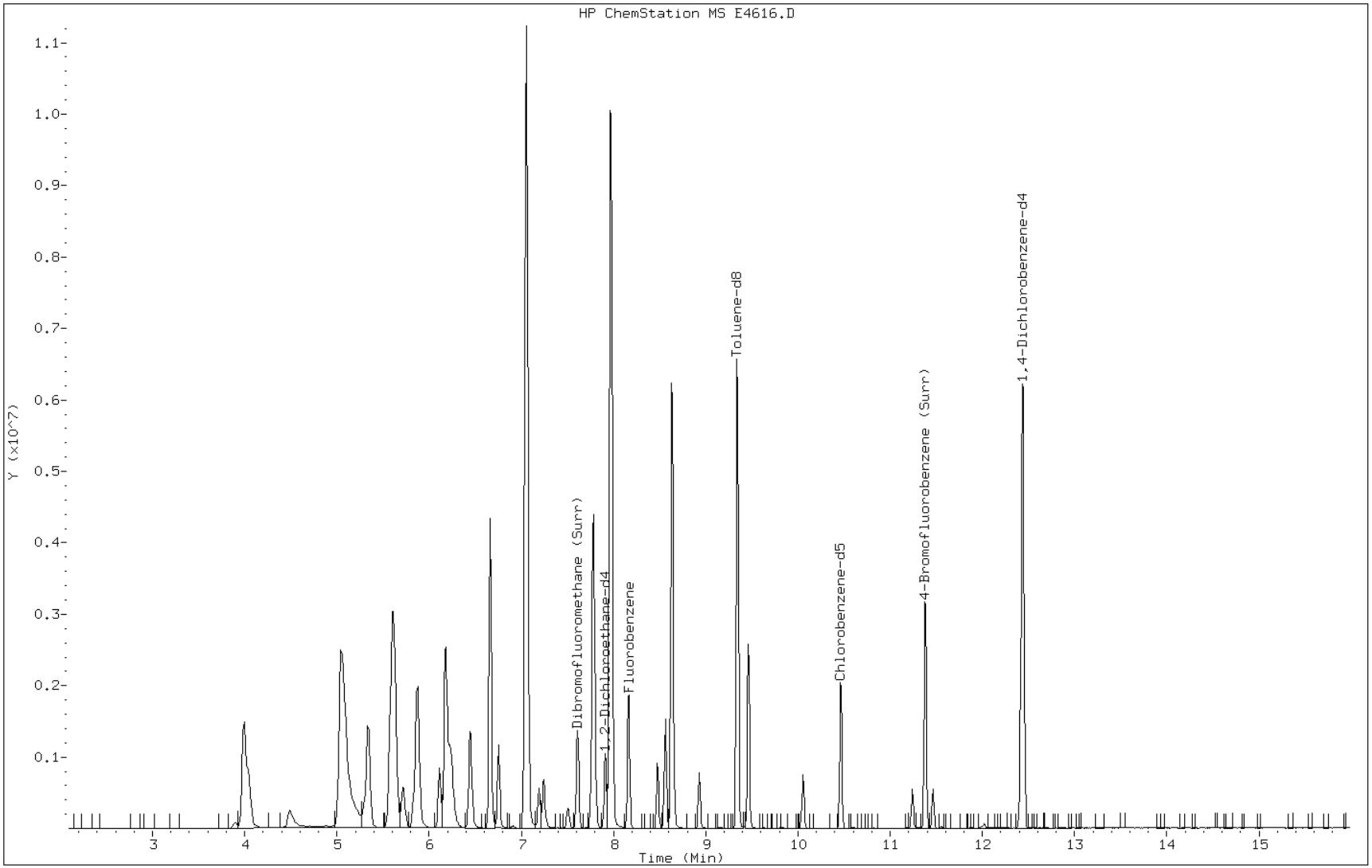
Date: 28-NOV-2011 14:47

Client ID: IC

Instrument: E.i

Sample Info: IC,,S30

Operator: MEIERG



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4617.D
Lab Smp Id: IC Client Smp ID: IC
Inj Date : 28-NOV-2011 15:06
Operator : MEIERG Inst ID: E.i
Smp Info : IC,,S60
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 14:47 Cal File: E4616.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1848729	12.5000	
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	363035	12.5000	
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	480400	12.5000	
$	51 Dibromofluoromethane (Surr)	111	7.609	7.609	(0.932)	1663469	60.0000	54.2378
$	57 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	1319553	60.0000	52.8747
$	75 Toluene-d8	98	9.339	9.339	(0.892)	7592505	60.0000	55.8265
$	98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	2479076	60.0000	59.8242
	7 1,2-Dichlorotetrafluoroethane	85	4.482	4.482	(0.549)	757404	60.0000	56.3809
	11 Ethylene Oxide	43	5.041	5.041	(0.617)	4882725	7500.00	5734.48
	14 Dichlorofluoromethane	67	5.334	5.334	(0.653)	4489740	60.0000	54.1582
	17 1,2-dichloro-1,1,2-trifluoro	117	5.599	5.599	(0.686)	2592856	60.0000	54.9835
	18 Ethyl Ether	59	5.613	5.613	(0.687)	1105929	60.0000	53.5789
	19 2,2-dichloro-1,1,1-trifluoro	83	5.627	5.627	(0.689)	3639075	60.0000	53.8131
	21 Trichlorotrifluoroethane	151	5.879	5.879	(0.720)	2140561	60.0000	58.9903
	23 2-propanol	45	5.879	5.879	(0.720)	782921	1200.00	1066.85
	27 Methyl Acetate	43	6.114	6.114	(0.749)	2482160	300.000	273.788
	28 Allyl Chloride	41	6.171	6.171	(0.756)	3897068	60.0000	55.4252
	29 Carbon Disulfide	76	6.229	6.229	(0.763)	9318156	60.0000	55.0955
	33 Methyl t-butyl ether	73	6.443	6.443	(0.789)	3238129	60.0000	54.9511
	35 Hexane	57	6.658	6.658	(0.636)	4214413	60.0000	59.3724
	36 Vinyl acetate	43	6.751	6.751	(0.827)	3147846	120.000	99.0474
	40 ETBE	59	7.051	7.051	(0.863)	18833777	300.000	228.452

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
41 Ethyl Acetate	43	7.187	7.187	(0.880)	1303951	120.000	109.655
43 2-Butanol	45	7.244	7.244	(0.887)	1524560	1800.00	1744.68(A)
50 Tetrahydrofuran	42	7.501	7.501	(0.919)	389157	120.000	110.014
54 Cyclohexane	56	7.780	7.780	(0.953)	4906699	60.0000	53.1713
59 TAME	73	7.973	7.973	(0.976)	15470183	300.000	239.973
64 2-Pentanone	43	8.474	8.474	(1.038)	1886262	240.000	225.146
67 Methyl Cyclohexane	55	8.631	8.631	(1.057)	3854637	60.0000	52.7671
65 Methyl Methacrylate	100	8.560	8.560	(1.048)	460599	120.000	115.881
72 2-nitropropane	41	8.931	8.931	(1.094)	178297	60.0000	53.2481
71 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	562958	60.0000	58.7116
77 Ethyl methacrylate	69	9.460	9.460	(0.904)	2474312	120.000	125.803(A)
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	642056	60.0000	64.2804(A)
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	259668	60.0000	66.9244(A)
100 t-1,4-Dichloro-2-butene	53	11.463	11.463	(0.923)	255733	60.0000	66.8081(A)
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	7743011	60.0000	61.2063(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: E4617.D

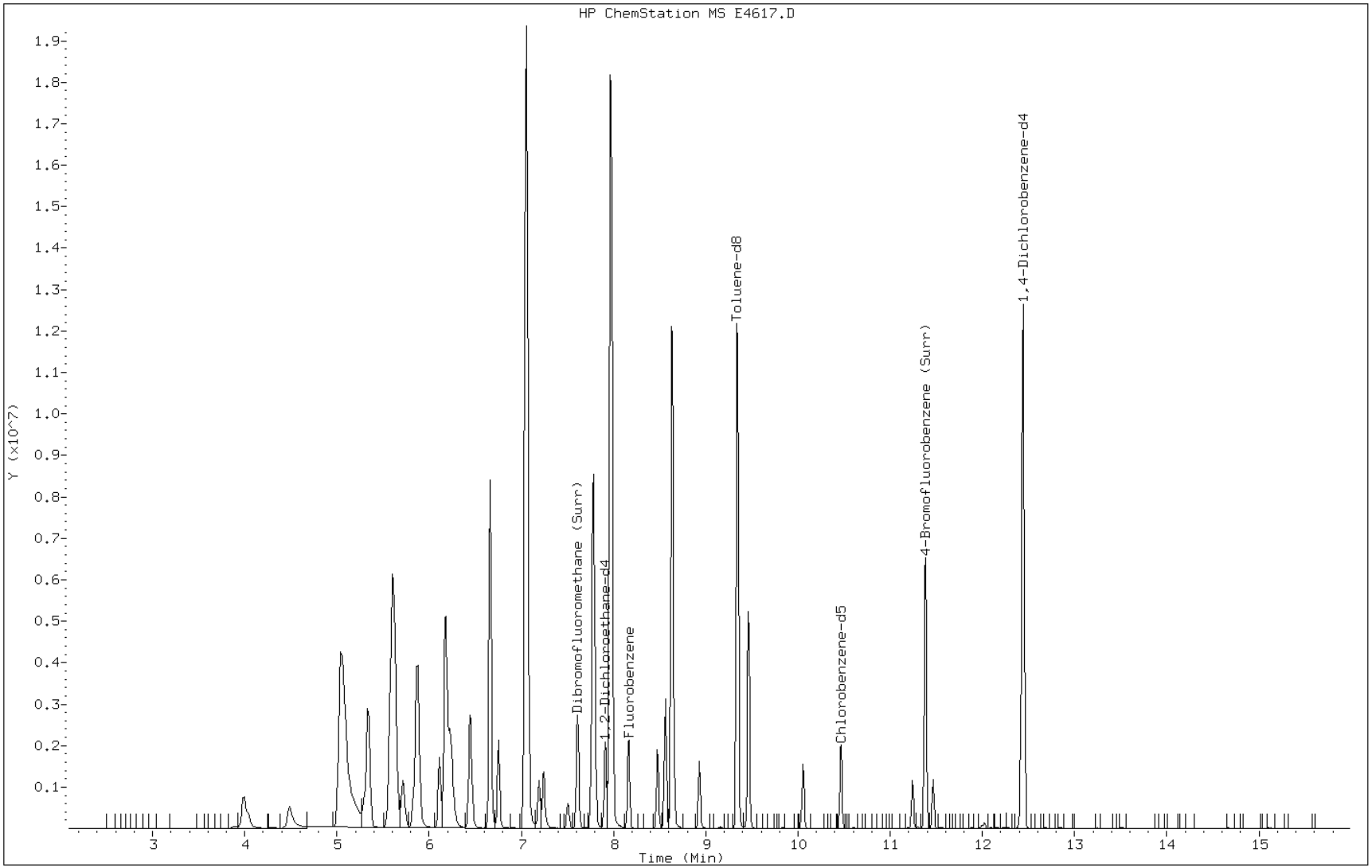
Date: 28-NOV-2011 15:06

Client ID: IC

Instrument: E.i

Sample Info: IC,,S60

Operator: MEIERG



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 17:19 Calibration End Date: 11/01/2011 19:19 Calibration ID: 7688

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-94480/2	ms1776.D
Level 2	IC 280-94480/3	ms1777.D
Level 3	IC 280-94480/4	ms1778.D
Level 4	IC 280-94480/5	ms1779.D
Level 5	IC 280-94480/6	ms1780.D
Level 6	IC 280-94480/7	ms1781.D
Level 7	IC 280-94480/8	ms1782.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethene, Total	+++++ 0.5965	0.5976 0.5816	0.5480	0.5714	0.5815	Ave		0.5794				3.2		15.0			
Xylenes, Total	4.9143 5.6818	5.1936 4.8334	4.7500	5.1387	5.2827	Ave		5.1135				6.2		15.0			
Dichlorodifluoromethane	+++++ 0.5176	0.5399 0.4692	0.4371	0.5420	0.5557	Ave		0.5102				9.2		15.0			
Ethanol	+++++ 0.0013	+++++ 0.0012	0.0013	0.0014	0.0014	Ave		0.0014				5.9		15.0			
Vinyl chloride	+++++ 0.7968	0.9086 0.7135	0.7931	0.8599	0.8669	Ave		0.8232				8.5		30.0			
Acetone	+++++ 0.0366	+++++ 0.0342	0.0431	0.0387	0.0377	Ave		0.0381				8.6		15.0			
Methylene Chloride	+++++ 0.4557	+++++ 0.4379	0.5194	0.4796	0.4623	Ave		0.4710				6.6		15.0			
Chloromethane	+++++ 0.7702	0.9000 0.6971	0.7613	0.8302	0.8292	Ave		0.7980			0.1000	8.8		15.0			
Trichlorofluoromethane	+++++ 0.8799	+++++ 0.8257	0.8539	0.8918	0.9205	Ave		0.8743				4.1		15.0			
Acrolein	+++++ 0.0242	0.0234 0.0227	0.0221	0.0231	0.0235	Ave		0.0232				3.1		15.0			
Bromomethane	+++++ 0.5478	0.5325 0.5614	0.4766	0.5022	0.5229	Ave		0.5239				5.9		15.0			
Acetonitrile	+++++ 0.0126	0.0166 0.0125	0.0139	0.0143	0.0139	Ave		0.0140				10.7		15.0			
Chloroethane	+++++ 0.4621	0.4660 0.4350	0.4233	0.4461	0.4586	Ave		0.4485				3.8		15.0			
1,1-Dichloroethene	0.4741 0.4638	0.4708 0.4492	0.4506	0.4622	0.4705	Ave		0.4630				2.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 17:19 Calibration End Date: 11/01/2011 19:19 Calibration ID: 7688

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.0015	+++++ 0.0014	0.0013	0.0016	0.0015	Ave		0.0015				6.7		15.0			
Iodomethane	+++++ 0.7388	0.7512 0.7230	0.6814	0.7267	0.7392	Ave		0.7267				3.4		15.0			
2-Butanone (MEK)	+++++ 0.0565	0.0563 0.0526	0.0525	0.0523	0.0545	Ave		0.0541				3.6		15.0			
Propionitrile	+++++ 0.0188	0.0182 0.0182	0.0168	0.0172	0.0178	Ave		0.0178				4.1		15.0			
Tert-butyl alcohol (2-methyl-2-propanol)	+++++ 0.0121	+++++ 0.0121	0.0107	0.0116	0.0120	Ave		0.0117				5.1		15.0			
Acrylonitrile	0.0433 0.0489	0.0470 0.0458	0.0458	0.0467	0.0471	Ave		0.0464				3.6		15.0			
trans-1,2-Dichloroethene	0.5749 0.5832	0.5810 0.5663	0.5439	0.5649	0.5795	Ave		0.5705				2.4		15.0			
Isobutyl alcohol	+++++ 0.0042	0.0036 0.0041	0.0038	0.0045	0.0043	Ave		0.0041				7.9		15.0			
Isopropyl ether	0.3665 0.4553	0.3948 0.4382	0.3729	0.3934	0.4153	Ave		0.4052				8.1		15.0			
1,1-Dichloroethane	0.9251 0.9754	0.9474 0.9548	0.9048	0.9382	0.9565	Ave		0.9432			0.1000	2.4		15.0			
Chloroprene	+++++ 0.9170	0.8484 0.8800	0.8097	0.8490	0.8982	Ave		0.8671				4.5		15.0			
cis-1,2-Dichloroethene	0.5918 0.6098	0.6142 0.5969	0.5521	0.5779	0.5834	Ave		0.5895				3.6		15.0			
2,2-Dichloropropane	0.7150 0.7829	0.7414 0.7651	0.7125	0.7373	0.7646	Ave		0.7456				3.6		15.0			
Methacrylonitrile	+++++ 0.0885	0.0831 0.0837	0.0765	0.0805	0.0832	Ave		0.0826				4.8		15.0			
Bromochloromethane	0.1734 0.2050	0.1925 0.2042	0.1845	0.1908	0.1937	Ave		0.1920				5.7		15.0			
Chloroform	0.8708 0.9200	0.8802 0.8965	0.8329	0.8646	0.8990	Ave		0.8806				3.2		30.0			
1,1,1-Trichloroethane	0.8514 0.8980	0.8814 0.8710	0.8183	0.8461	0.8880	Ave		0.8649				3.2		15.0			
1,1-Dichloropropene	0.7931 0.8368	0.8348 0.7962	0.7848	0.7938	0.8275	Ave		0.8096				2.8		15.0			
Carbon tetrachloride	0.6782 0.7548	0.7032 0.7354	0.6660	0.6958	0.7351	Ave		0.7098				4.6		15.0			
1,2-Dichloroethane	0.4277 0.4320	0.4269 0.4053	0.4005	0.4103	0.4206	Ave		0.4176				2.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 17:19 Calibration End Date: 11/01/2011 19:19 Calibration ID: 7688

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzene	2.2200 2.2299	2.2924 2.0360	2.1153	2.1718	2.2121	Ave		2.1825				3.9		15.0			
1,2,3-Trichloropropane	+++++ 0.2185	+++++ 0.2029	0.2104	0.2171	0.2101	Ave		0.2118				3.0		15.0			
n-Butanol	+++++ 0.0042	0.0055 +++++	0.0044	0.0041	0.0041	Ave		0.0045				13.4		15.0			
2-Hexanone	+++++ 0.0814	0.0775 0.0771	0.0713	0.0735	0.0776	Ave		0.0764				4.6		15.0			
Trichloroethene	+++++ 0.6530	0.6191 0.6339	0.5735	0.6029	0.6311	Ave		0.6189				4.5		15.0			
Dibromochloromethane	+++++ 1.3833	1.1332 1.2606	1.0686	1.2179	1.3088	Ave		1.2287				9.4		15.0			
1,2-Dichloropropane	0.4348 0.4596	0.4565 0.4427	0.4166	0.4373	0.4485	Ave		0.4423				3.3		30.0			
1,2-Dibromoethane (EDB)	+++++ 0.9908	0.9528 0.8782	0.8927	0.9654	0.9933	Ave		0.9455				5.2		15.0			
Dibromomethane	0.1582 0.1816	0.1702 0.1739	0.1612	0.1728	0.1773	Ave		0.1708				4.9		15.0			
Bromodichloromethane	0.4309 0.5278	0.4742 0.5067	0.4494	0.4846	0.4976	Ave		0.4816				6.9		15.0			
cis-1,3-Dichloropropene	+++++ 2.9302	2.6880 2.6537	2.4350	2.7777	2.8925	Ave		2.7295				6.6		15.0			
4-Methyl-2-pentanone	+++++ 0.5821	0.5617 0.5200	0.5101	0.5586	0.5851	Ave		0.5529				5.7		15.0			
Toluene	+++++ 2.3626	2.4199 +++++	2.2190	2.2741	2.3486	Ave		2.3248				3.4		30.0			
trans-1,3-Dichloropropene	0.3308 0.4491	0.3533 0.4253	0.3587	0.4001	0.4210	Ave		0.3912				11.2		15.0			
Bromoform	+++++ 0.6357	0.4688 0.5922	0.4514	0.5487	0.5833	Ave		0.5467			0.1000	13.3		15.0			
1,1,2-Trichloroethane	+++++ 0.2231	0.2165 0.2095	0.2087	0.2100	0.2146	Ave		0.2137				2.6		15.0			
1,1,2,2-Tetrachloroethane	+++++ 0.7096	0.7331 0.6569	0.7024	0.7010	0.7102	Ave		0.7022			0.3000	3.6		15.0			
1,3-Dichloropropane	1.9769 1.9939	2.1054 1.7590	1.9115	2.0101	2.0291	Ave		1.9694				5.6		15.0			
Tetrachloroethene	2.4055 2.4123	2.4504 2.2523	2.2300	2.3558	2.3870	Ave		2.3562				3.6		15.0			
1-Chlorohexane	+++++ 4.0508	4.0390 3.6154	3.7099	3.8878	4.0250	Ave		3.8880				4.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 17:19 Calibration End Date: 11/01/2011 19:19 Calibration ID: 7688

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	7.0077 6.8825	7.1845 6.1972	6.4244	6.7101	6.7907	Ave		6.7424			0.3000	5.0		15.0			
1,1,1,2-Tetrachloroethane	1.9238 2.3298	1.9029 2.3425	1.8026	2.0063	2.1208	Ave		2.0613				10.3		15.0			
Ethylbenzene	4.4551 4.7023	4.3202 4.5789	3.9914	4.2288	4.3659	Ave		4.3775				5.3		30.0			
m-Xylene & p-Xylene	5.0875 5.7643	5.3471 4.6253	4.8709	5.2680	5.3934	Ave		5.1938				7.2		15.0			
Styrene	+++++ 8.1330	6.2070 7.4321	5.9102	6.7688	7.2508	Ave		6.9503				11.8		15.0			
o-Xylene	4.5679 5.5169	4.8865 5.2496	4.5081	4.8800	5.0613	Ave		4.9529				7.2		15.0			
Isopropylbenzene	8.8694 8.8436	8.8695 +++++	8.3859	8.5323	8.6660	Ave		8.6944				2.3		15.0			
Cyclohexanone	+++++ 0.0210	0.0199 0.0193	0.0185	0.0216	0.0224	Ave		0.0205				7.2		15.0			
n-Propylbenzene	+++++ 3.1377	2.7335 3.0835	2.6792	2.7781	2.7856	Ave		2.8663				6.8		15.0			
Bromobenzene	+++++ 1.9876	1.8167 2.0162	1.6829	1.7715	1.8055	Ave		1.8467				7.0		15.0			
1,3,5-Trimethylbenzene	7.3584 8.3401	7.7125 7.1733	7.4022	7.5584	7.7311	Ave		7.6109				5.0		15.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1082	0.0767 0.1082	0.0843	0.0901	0.1020	Ave		0.0949				13.9		15.0			
2-Chlorotoluene	2.3442 2.3737	2.1916 2.3560	2.1065	2.1477	2.1528	Ave		2.2389				5.1		15.0			
4-Chlorotoluene	2.0765 2.3430	2.3057 2.2156	2.1810	2.1729	2.2030	Ave		2.2140				4.0		15.0			
tert-Butylbenzene	7.5383 8.5637	7.8053 7.8585	7.6616	7.7767	7.9510	Ave		7.8793				4.2		15.0			
1,2,4-Trimethylbenzene	7.1036 8.2679	7.6409 7.4263	7.3094	7.4728	7.6432	Ave		7.5520				4.9		15.0			
sec-Butylbenzene	2.1504 2.5060	2.3364 2.4034	2.2043	2.2448	2.2982	Ave		2.3062				5.3		15.0			
4-Isopropyltoluene	7.9741 9.3371	8.7232 7.3585	8.4852	8.6364	8.7811	Ave		8.4708				7.5		15.0			
1,3-Dichlorobenzene	+++++ 3.9297	4.2220 3.6691	3.6671	3.6899	3.7092	Ave		3.8145				5.8		15.0			
1,4-Dichlorobenzene	3.7066 4.0565	3.7012 3.7193	3.8925	3.7828	3.8095	Ave		3.8098				3.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 17:19 Calibration End Date: 11/01/2011 19:19 Calibration ID: 7688

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	+++++ 2.0764	2.0098 1.8979	1.9626	2.0051	1.9886	Ave		1.9901				3.0		15.0			
n-Butylbenzene	7.9809 8.5605	8.3034 +++++	8.0958	8.0432	8.1057	Ave		8.1816				2.6		15.0			
1,2-Dichlorobenzene	+++++ 3.0545	3.0466 2.8586	2.8888	2.9369	2.9158	Ave		2.9502				2.8		15.0			
Hexachlorobutadiene	1.5217 1.6155	1.6055 1.4406	1.5569	1.5198	1.5203	Ave		1.5401				3.9		15.0			
Naphthalene	+++++ 2.4949	2.0981 2.2975	2.3385	2.3972	2.4285	Ave		2.3424				5.9		15.0			
1,2,3-Trichlorobenzene	+++++ 1.5479	1.4802 1.4056	1.4930	1.5311	1.5307	Ave		1.4981				3.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 17:19 Calibration End Date: 11/01/2011 19:19 Calibration ID: 7688

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-94480/2	ms1776.D
Level 2	IC 280-94480/3	ms1777.D
Level 3	IC 280-94480/4	ms1778.D
Level 4	IC 280-94480/5	ms1779.D
Level 5	IC 280-94480/6	ms1780.D
Level 6	IC 280-94480/7	ms1781.D
Level 7	IC 280-94480/8	ms1782.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloroethene, Total	FB	Ave	+++++ 4359201	126907 9349239	248325	637134	1321821	+++++ 60.0	2.00 120	4.00	10.0	20.0
Xylenes, Total	CBZ	Ave	98290 13172102	328606 26008955	668725	1723196	3654605	0.900 90.0	3.00 180	6.00	15.0	30.0
Dichlorodifluoromethane	FB	Ave	+++++ 1891183	57324 3770794	99028	302224	631603	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Ethanol	FB	Ave	+++++ 240379	+++++ 502195	14965	40208	80795	+++++ 1500	+++++ 3000	100	250	500
Vinyl chloride	FB	Ave	+++++ 2911642	96476 5734758	179692	479465	985357	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acetone	FB	Ave	+++++ 534410	+++++ 1100389	39101	86290	171447	+++++ 120	+++++ 240	8.00	20.0	40.0
Methylene Chloride	FB	Ave	+++++ 1665095	+++++ 3519702	117664	267420	525430	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
Chloromethane	FB	Ave	+++++ 2814491	95565 5602897	172469	462901	942509	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Trichlorofluoromethane	FB	Ave	+++++ 3215178	+++++ 6636105	193447	497213	1046192	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
Acrolein	FB	Ave	+++++ 882556	24884 1823528	49989	128706	267358	+++++ 300	10.0 600	20.0	50.0	100
Bromomethane	FB	Ave	+++++ 2001688	56538 4512187	107987	279986	594331	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Acetonitrile	FB	Ave	+++++ 458882	17606 1003262	31590	79865	158078	+++++ 300	10.0 600	20.0	50.0	100
Chloroethane	FB	Ave	+++++ 1688519	49478 3496366	95893	248720	521257	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloroethene	FB	Ave	16000 1694674	49990 3610795	102085	257731	534737	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dioxane	FB	Ave	+++++ 266932	+++++ 552641	15123	43318	87420	+++++ 1500	+++++ 3000	100	250	500

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 17:19 Calibration End Date: 11/01/2011 19:19 Calibration ID: 7688

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Iodomethane	FB	Ave	+++++ 2699660	79764 5810660	154376	405168	840123	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	+++++ 825850	23911 1690896	47587	116564	247671	+++++ 120	4.00 240	8.00	20.0	40.0
Propionitrile	FB	Ave	+++++ 688365	19307 1459720	38074	95888	202854	+++++ 300	10.0 600	20.0	50.0	100
Tert-butyl alcohol (2-methyl-2-propanol)	FB	Ave	+++++ 886339	+++++ 1945450	48466	129566	272310	+++++ 600	+++++ 1200	40.0	100	200
Acrylonitrile	FB	Ave	14618 1785936	49876 3684379	103675	260116	534941	3.00 300	10.0 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	19400 2130964	61690 4551424	123234	314944	658697	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 303296	7728 654224	17246	50681	97021	+++++ 600	20.0 1200	40.0	100	200
Isopropyl ether	FB	Ave	61838 8317499	209577 17610001	422452	1096816	2360338	1.50 150	5.00 300	10.0	25.0	50.0
1,1-Dichloroethane	FB	Ave	31216 3564057	100594 7674019	204978	523108	1087131	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroprene	FB	Ave	+++++ 3350909	90081 7072810	183449	473349	1020895	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	19969 2228237	65217 4797815	125091	322190	663124	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2,2-Dichloropropane	FB	Ave	24128 2860898	78721 6149787	161426	411067	869064	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Methacrylonitrile	FB	Ave	+++++ 3234645	88277 6730578	173324	448738	946073	+++++ 300	10.0 600	20.0	50.0	100
Bromochloromethane	FB	Ave	5850 749159	20444 1640845	41789	106408	220207	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	29386 3361616	93462 7205295	188700	482095	1021816	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	28732 3281202	93590 7000668	185394	471749	1009339	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1-Dichloropropene	FB	Ave	26763 3057549	88635 6399740	177794	442612	940475	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	22886 2758000	74664 5910724	150880	387947	835482	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Ave	14432 1578554	45326 3257311	90737	228789	478091	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Benzene	FB	Ave	74914 8148135	243397 16364052	479246	1210926	2514247	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	+++++ 232885	+++++ 480149	13218	34052	68087	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 17:19 Calibration End Date: 11/01/2011 19:19 Calibration ID: 7688

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	FB	Ave	+++++ 456721	17529 +++++	29625	68463	141011	+++++ 900	30.0 +++++	60.0	150	300
2-Hexanone	FB	Ave	+++++ 1189853	32915 2479104	64615	163862	352632	+++++ 120	4.00 240	8.00	20.0	40.0
Trichloroethene	FB	Ave	+++++ 2385933	65731 5094952	129927	336137	717348	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromochloromethane	CBZ	Ave	+++++ 1068929	23899 2261132	50147	136136	301806	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloropropane	FB	Ave	14672 1679280	48467 3557910	94384	243823	509766	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromoethane (EDB)	CBZ	Ave	+++++ 765646	20095 1575199	41894	107907	229054	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	5340 663447	18073 1398086	36525	96321	201569	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	14542 1928592	50352 4072362	101807	270204	565523	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBZ	Ave	+++++ 2264381	56691 4759958	114270	310484	667017	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
4-Methyl-2-pentanone	CBZ	Ave	+++++ 1799256	47383 3730832	95754	249752	539666	+++++ 120	4.00 240	8.00	20.0	40.0
Toluene	FB	Ave	+++++ 8632889	256942 +++++	502721	1267980	2669408	+++++ 30.0	1.00 +++++	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	11163 1640966	37511 3418228	81277	223075	478490	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromoform	CBZ	Ave	+++++ 491235	9887 1062195	21185	61331	134518	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloroethane	FB	Ave	+++++ 815112	22989 1683737	47278	117113	243864	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2,2-Tetrachloroethane	DCB	Ave	+++++ 756522	21616 1554236	44135	109931	230196	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichloropropane	CBZ	Ave	13180 1540810	44405 3155043	89706	224686	467902	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	16037 1864147	51680 4039886	104651	263329	550444	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	+++++ 3130309	85186 6484970	174099	434570	928157	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Chlorobenzene	CBZ	Ave	46720 5318554	151526 11115896	301489	750045	1565930	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	12826 1800393	40133 4201714	84595	224267	489060	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	29702 3633790	91116 8213131	187310	472690	1006781	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 17:19 Calibration End Date: 11/01/2011 19:19 Calibration ID: 7688

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
m-Xylene & p-Xylene	CBZ	Ave	67836 8908825	225547 16592723	457165	1177711	2487463	0.600 60.0	2.00 120	4.00	10.0	20.0
Styrene	CBZ	Ave	+++++ 6284901	130909 13330896	277359	756613	1672042	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
o-Xylene	CBZ	Ave	30454 4263277	103059 9416232	211560	545485	1167142	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isopropylbenzene	DCB	Ave	81100 9427762	261526 +++++	526910	1338082	2809027	0.300 30.0	1.00 +++++	2.00	5.00	10.0
Cyclohexanone	CBZ	Ave	+++++ 649958	16822 1381555	34764	96645	206627	+++++ 1200	40.0 2400	80.0	200	400
n-Propylbenzene	DCB	Ave	+++++ 3345028	80601 7296145	168342	435682	902947	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	+++++ 2118868	53568 4770788	105739	277814	585249	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	67284 8891103	227410 16973338	465104	1185346	2505995	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 115397	2263 255926	5294	14132	33052	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	21435 2530456	64622 5574673	132358	336810	697831	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	18987 2497736	67987 5242569	137036	340769	714100	0.300 30.0	1.00 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	68929 9129381	230147 18594734	481404	1219574	2577269	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	64954 8814038	225301 17571993	459271	1171923	2477482	0.300 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	19663 2671560	68892 5686904	138501	352040	744950	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	72913 9953908	257211 17411566	533153	1354399	2846334	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	+++++ 4189315	124490 8681720	230413	578661	1202300	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	33892 4324494	109134 8800644	244580	593235	1234824	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 2213516	59260 4490836	123315	314449	644607	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	72976 9126023	244835 +++++	508682	1261369	2627407	0.300 30.0	1.00 +++++	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	+++++ 3256271	89832 6763893	181514	460580	945145	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	13914 1722253	47341 3408707	97823	238346	492808	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 17:19 Calibration End Date: 11/01/2011 19:19 Calibration ID: 7688

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	DCB	Ave	+++++ 2659682	61865 5436364	146934	375946	787167	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichlorobenzene	DCB	Ave	+++++ 1650207	43644 3325805	93809	240116	496152	+++++ 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1776.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 17:19
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,,M 0.3
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:26 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41 Cal File: ms1801.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	69 Fluorobenzene	96	8.339	8.339	(1.000)	1406035	12.5000	
*	95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	277788	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	380991	12.5000	
M	1 1,2-Dichloroethene (total)	96				39369	0.60000	0.603477(a)
M	2 Xylene (total)	106				98290	0.90000	0.864404(a)
M	3 Trihalomethane (total)	100				43928	1.20000	0.565121
M	4 1,3-Dichloropropene (total)	100				27055	0.60000	0.515689
	5 dichlorodifluoromethane	85	Compound Not Detected.					
	7 Chloromethane	50	4.820	4.820	(0.578)	34107	0.30000	0.379965(a)
	8 Vinyl Chloride	62	Compound Not Detected.					
	10 Bromomethane	94	5.365	5.365	(0.643)	17918	0.30000	0.304057(a)
	11 Chloroethane	64	5.434	5.434	(0.652)	15569	0.30000	0.308604(a)
	14 Trichlorofluoromethane	101	Compound Not Detected.					
	13 Ethanol	45	Compound Not Detected.					
	19 Acrolein	56	Compound Not Detected.					
	20 Acetone	43	Compound Not Detected.					
	23 1,1-Dichloroethene	96	6.147	6.147	(0.737)	16000	0.30000	0.307194(a)
	27 Iodomethane	142	6.328	6.328	(0.759)	22708	0.30000	0.277801(a)
	26 Acetonitrile	41	Compound Not Detected.					
	30 tert-Butyl alcohol	59	6.440	6.440	(0.772)	7454	6.00000	5.66150(a)
	33 Methylene Chloride	84	Compound Not Detected.					
	34 Acrylonitrile	53	6.622	6.622	(0.794)	14618	3.00000	2.80350(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
36 trans-1,2-Dichloroethene	96	6.719	6.719	(0.806)	19400	0.30000	0.302299(a)
43 Isopropyl ether	87	6.985	6.985	(0.838)	61838	1.50000	1.35674(aQ)
44 1,1-Dichloroethane	63	7.041	7.041	(0.844)	31216	0.30000	0.294245(a)
46 Chloroprene	53	7.110	7.110	(0.853)	25885	0.30000	0.265409(a)
50 2-Butanone	43	Compound Not Detected.					
52 cis-1,2-Dichloroethene	96	7.460	7.460	(0.894)	19969	0.30000	0.301178(a)
51 Propionitrile	54	Compound Not Detected.					
53 2,2-Dichloropropane	77	7.501	7.501	(0.900)	24128	0.30000	0.287709(a)
54 Methacrylonitrile	41	7.585	7.585	(0.910)	25466	3.00000	2.74076(a)
55 Bromochloromethane	128	7.669	7.669	(0.920)	5850	0.30000	0.270851(a)
56 Chloroform	83	7.669	7.669	(0.920)	29386	0.30000	0.296677(a)
60 1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	28732	0.30000	0.295334(aQ)
59 Isobutanol	41	Compound Not Detected.					
62 1,1-Dichloropropene	75	8.004	8.004	(0.960)	26763	0.30000	0.293899(a)
63 Carbon Tetrachloride	117	8.046	8.046	(0.965)	22886	0.30000	0.286657(a)
65 1,2-Dichloroethane	62	8.144	8.144	(0.977)	14432	0.30000	0.307229(a)
67 Benzene	78	8.186	8.186	(0.982)	74914	0.30000	0.305156(a)
68 n-Butanol	56	8.339	8.339	(1.000)	10997	9.00000	21.9634(a)
71 Trichloroethene	130	8.619	8.619	(1.033)	20745	0.30000	0.297992(a)
74 1,2-Dichloropropane	63	8.786	8.786	(1.054)	14672	0.30000	0.294926(a)
76 1,4-Dioxane	88	Compound Not Detected.					
77 Dibromomethane	93	8.884	8.884	(1.065)	5340	0.30000	0.278022(a)
78 Bromodichloromethane	83	8.940	8.940	(1.072)	14542	0.30000	0.268444(aM)
81 cis-1,3-Dichloropropene	75	9.247	9.247	(0.873)	15892	0.30000	0.261993(a)
82 4-Methyl-2-pentanone	43	9.289	9.289	(0.877)	15177	1.20000	1.23516(a)
84 Toluene	91	9.541	9.541	(1.144)	76622	0.30000	0.293004(a)
86 trans-1,3-Dichloropropene	75	9.610	9.610	(1.152)	11163	0.30000	0.253696(a)
87 1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	7714	0.30000	0.320875(aQM)
88 2-Hexanone	43	Compound Not Detected.					
89 1,3-Dichloropropane	76	9.918	9.918	(0.937)	13180	0.30000	0.301144(a)
90 Tetrachloroethene	164	9.974	9.974	(0.942)	16037	0.30000	0.306275(a)
91 Dibromochloromethane	129	Compound Not Detected.					
93 1,2-Dibromoethane	107	Compound Not Detected.					
94 1-Chlorohexane	91	10.490	10.490	(0.991)	24844	0.30000	0.287537(a)
96 Chlorobenzene	112	10.616	10.616	(1.003)	46720	0.30000	0.311804(a)
97 1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	12826	0.30000	0.279998(a)
98 Ethylbenzene	106	10.644	10.644	(1.005)	29702	0.30000	0.305319(aQ)
99 m and p-Xylene	106	10.728	10.728	(1.013)	67836	0.60000	0.587723(Q)
101 o-Xylene	106	11.063	11.063	(1.045)	30454	0.30000	0.276681(a)
100 Styrene	104	11.063	11.063	(1.045)	35720	0.30000	0.231261(a)
102 Bromoform	173	Compound Not Detected.					
103 isopropyl benzene	105	11.328	11.328	(0.904)	81100	0.30000	0.306037(a)
105 Cyclohexanone	55	11.468	11.468	(1.083)	6767	12.0000	14.8830(a)
107 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
109 1,2,3-Trichloropropane	110	Compound Not Detected.					
111 Bromobenzene	156	11.677	11.677	(0.932)	16552	0.30000	0.294064(a)
110 n-Propylbenzene	120	11.663	11.663	(0.931)	24328	0.30000	0.278471(aQ)
113 2-Chlorotoluene	126	11.803	11.803	(0.942)	21435	0.30000	0.314108(a)
112 1,3,5-Trimethylbenzene	105	11.775	11.775	(0.940)	67284	0.30000	0.290050(aM)
114 4-Chlorotoluene	126	11.887	11.887	(0.949)	18987	0.30000	0.281372(a)
115 tert-Butylbenzene	119	12.110	12.110	(0.967)	68929	0.30000	0.287018(a)
116 1,2,4-Trimethylbenzene	105	12.138	12.138	(0.969)	64954	0.30000	0.282188(a)
118 sec-Butylbenzene	134	12.292	12.292	(0.981)	19663	0.30000	0.279733(aQ)
119 4-Isopropyltoluene	119	12.390	12.390	(0.989)	72913	0.30000	0.282408(a)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
120 1,3-Dichlorobenzene	146	12.473	12.473	(0.996)	37121	0.30000	0.319286
122 1,4-dichlorobenzene	146	12.557	12.557	(1.002)	33892	0.30000	0.291872
124 n-Butylbenzene	91	12.795	12.795	(1.021)	72976	0.30000	0.292643(a)
126 1,2-Dichlorobenzene	146	12.948	12.948	(1.033)	27612	0.30000	0.307073
127 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
129 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
130 Hexachlorobutadiene	225	15.015	15.015	(1.198)	13914	0.30000	0.296422(a)
131 Naphthalene	128	15.239	15.239	(1.216)	21968	0.30000	0.307692(a)
132 1,2,3-Trichlorobenzene	180	15.616	15.616	(1.246)	14189	0.30000	0.310753(a)

QC Flag Legend

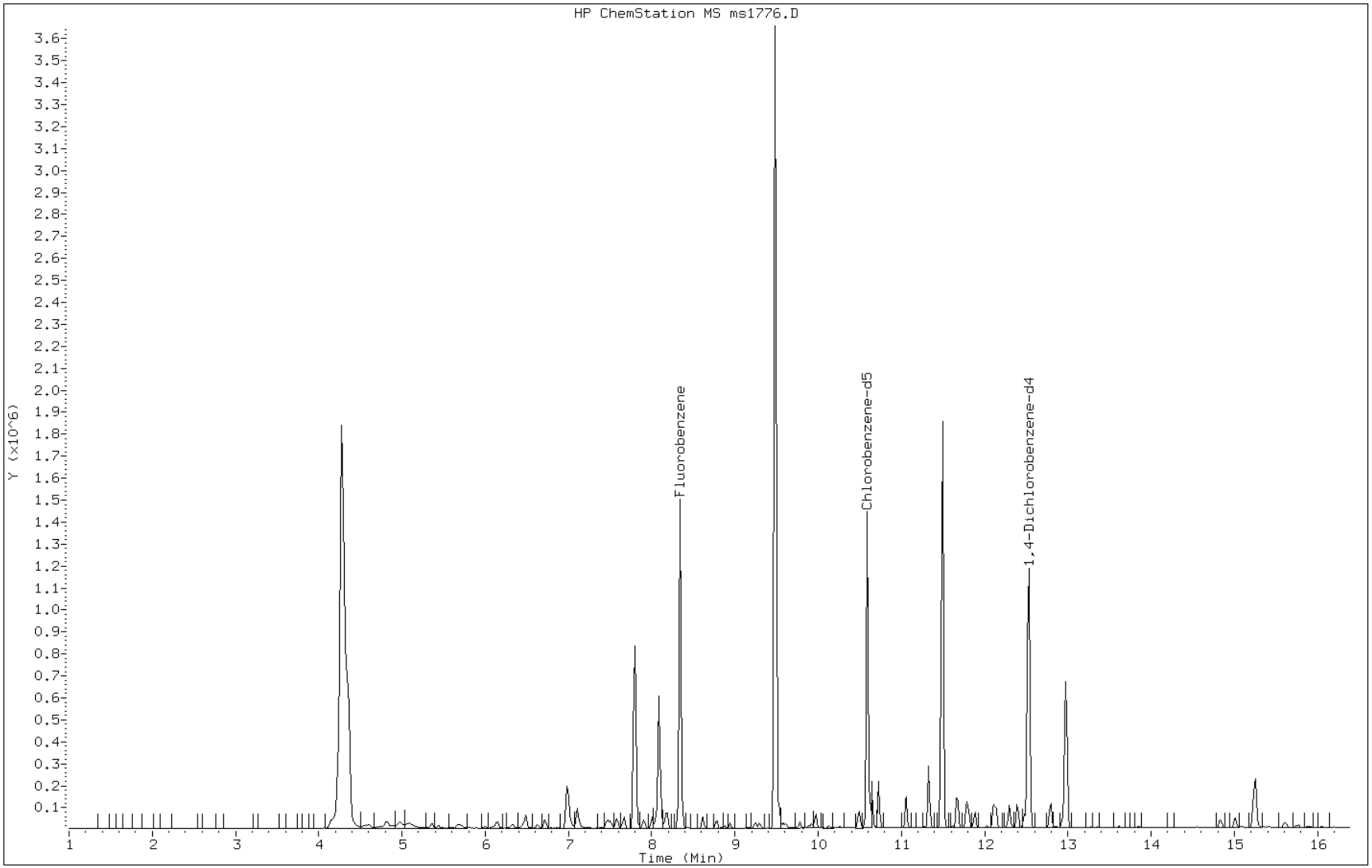
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: ms1776.D

Date: 01-NOV-2011 17:19

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 0.3 Operator: STOLTZK



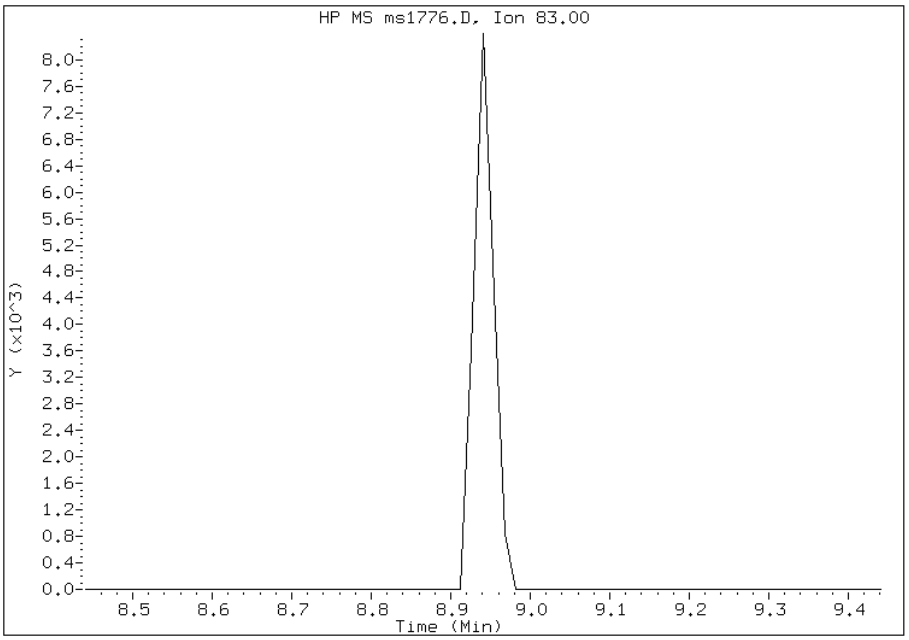
Manual Integration Report

Data File: ms1776.D
Inj. Date and Time: 01-NOV-2011 17:19
Instrument ID: GCMS1.i
Client ID:
Compound: 78 Bromodichloromethane
CAS #: 75-27-4
Report Date: 11/02/2011

Processing Integration Results

Not Detected

Expected RT: 8.94



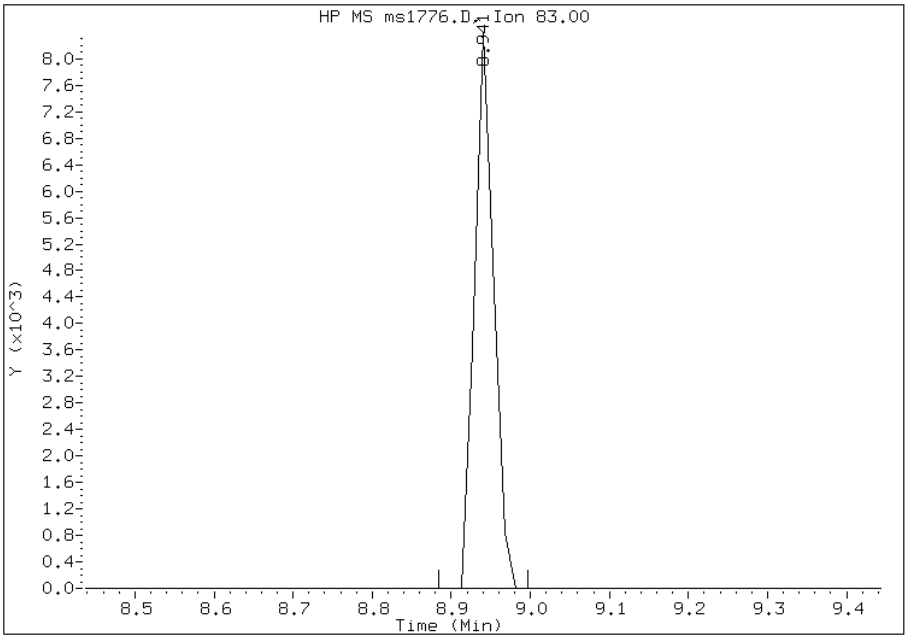
Manual Integration Results

RT: 8.94

Response: 14542

Amount: 0

Conc: 0



Manually Integrated By:
Manual Integration Reason: Unknown

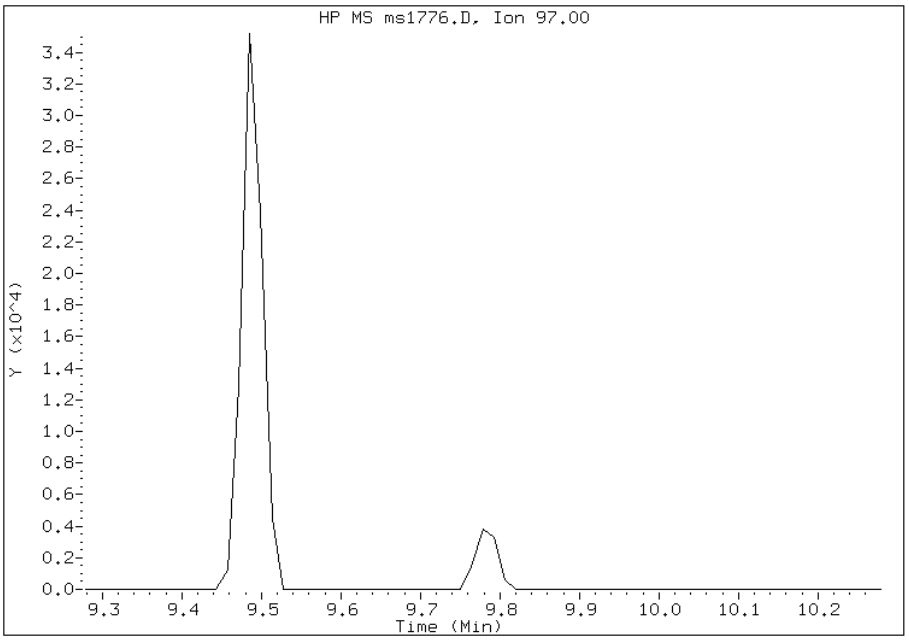
Manual Integration Report

Data File: ms1776.D
Inj. Date and Time: 01-NOV-2011 17:19
Instrument ID: GCMS1.i
Client ID:
Compound: 87 1,1,2-Trichloroethane
CAS #: 79-00-5
Report Date: 11/02/2011

Processing Integration Results

Not Detected

Expected RT: 9.78



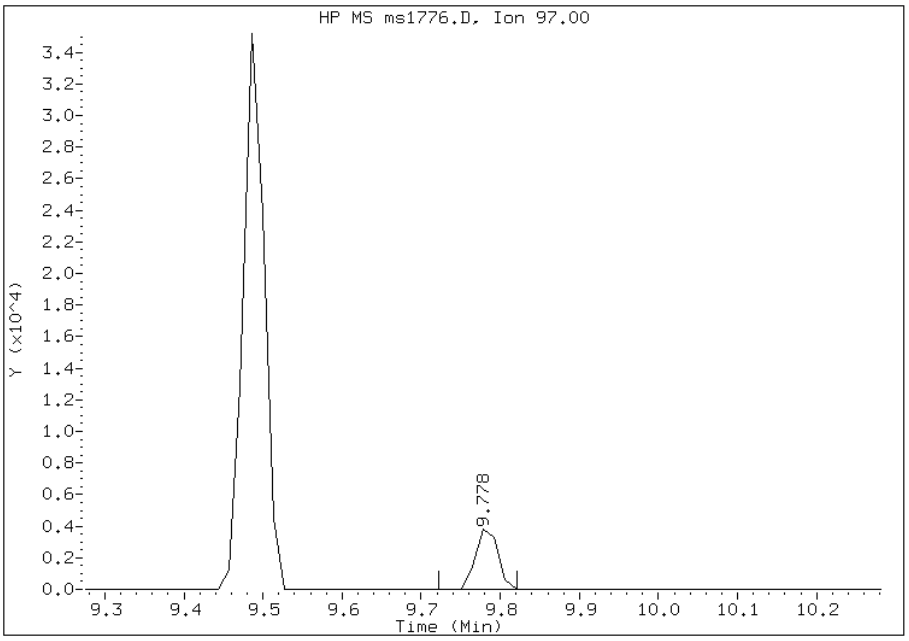
Manual Integration Results

RT: 9.78

Response: 7714

Amount: 0

Conc: 0



Manually Integrated By:
Manual Integration Reason: Unknown

Manual Integration Report

Data File: ms1776.D
Inj. Date and Time: 01-NOV-2011 17:19
Instrument ID: GCMS1.i
Client ID:
Compound: 112 1,3,5-Trimethylbenzene
CAS #: 108-67-8
Report Date: 11/02/2011

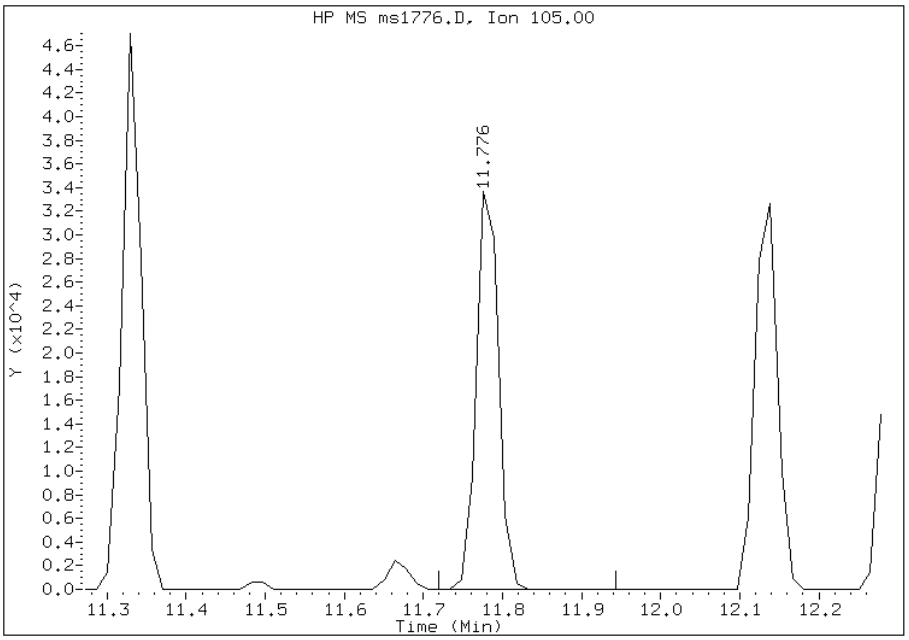
Processing Integration Results

RT: 11.78

Response: 67284

Amount: 0

Conc: 0



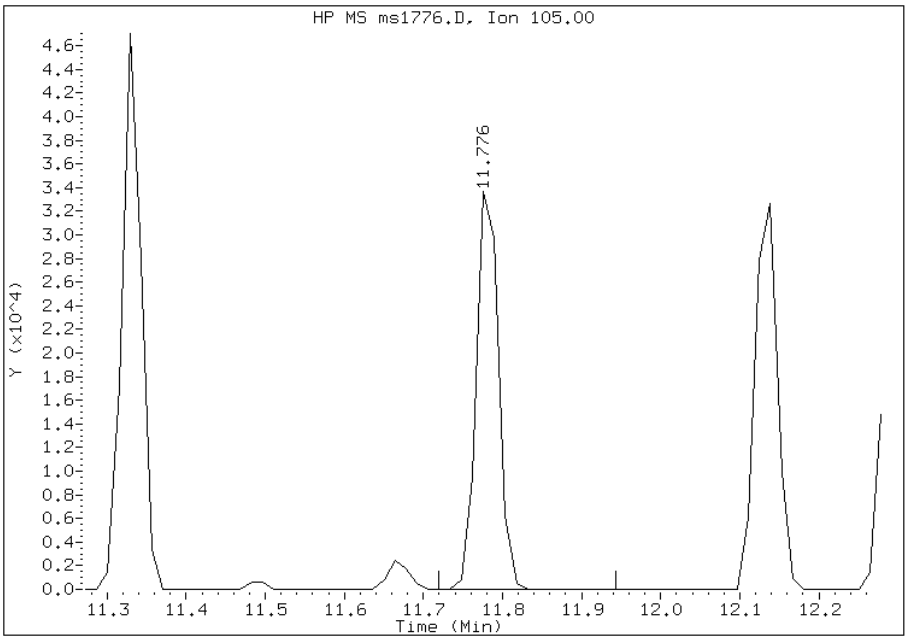
Manual Integration Results

RT: 11.78

Response: 67284

Amount: 0

Conc: 0



Manually Integrated By:
Manual Integration Reason: Unknown

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1777.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 17:39
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,,M 1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:26 GCMS1.i Quant Type: ISTD
Cal Date : 01-NOV-2011 17:19 Cal File: ms1776.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 69	Fluorobenzene	96	8.340	8.340	(1.000)	1327221	12.5000	
* 95	Chlorobenzene-d5	119	10.588	10.588	(1.000)	263633	12.5000	
* 121	1,4-Dichlorobenzene-d4	152	12.530	12.530	(1.000)	368575	12.5000	
M 1	1,2-Dichloroethene (total)	96				126907	2.00000	2.06039
M 2	Xylene (total)	106				328606	3.00000	3.04562
M 3	Trihalomethane (total)	100				177600	4.00000	3.76404
M 4	1,3-Dichloropropene (total)	100				94202	2.00000	1.88790
5	dichlorodifluoromethane	85	4.597	4.597	(0.551)	57324	1.00000	1.05810(a)
7	Chloromethane	50	4.806	4.806	(0.576)	95565	1.00000	1.12785(a)
8	Vinyl Chloride	62	4.974	4.974	(0.596)	96476	1.00000	1.10382
10	Bromomethane	94	5.351	5.351	(0.642)	56538	1.00000	1.01639(a)
11	Chloroethane	64	5.435	5.435	(0.652)	49478	1.00000	1.03898(a)
14	Trichlorofluoromethane	101	5.672	5.672	(0.680)	101260	1.00000	1.09076(a)
13	Ethanol	45	Compound Not Detected.					
19	Acrolein	56	5.994	5.994	(0.719)	24884	10.0000	10.1201(a)
20	Acetone	43	Compound Not Detected.					
23	1,1-Dichloroethene	96	6.133	6.133	(0.735)	49990	1.00000	1.01678
27	Iodomethane	142	6.315	6.315	(0.757)	79764	1.00000	1.03375
26	Acetonitrile	41	6.315	6.315	(0.757)	17606	10.0000	11.8726(a)
30	tert-Butyl alcohol	59	6.440	6.440	(0.772)	23773	20.0000	19.1284(a)
33	Methylene Chloride	84	Compound Not Detected.					
34	Acrylonitrile	53	6.622	6.622	(0.794)	49876	10.0000	10.1334(a)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
36 trans-1,2-Dichloroethene	96	6.720	6.720	(0.806)	61690	1.00000	1.01836
43 Isopropyl ether	87	6.985	6.985	(0.838)	209577	5.00000	4.87122(a)
44 1,1-Dichloroethane	63	7.027	7.027	(0.843)	100594	1.00000	1.00451
46 Chloroprene	53	7.111	7.111	(0.853)	90081	1.00000	0.978484(a)
50 2-Butanone	43	7.404	7.404	(0.888)	23911	4.00000	4.16199(a)
52 cis-1,2-Dichloroethene	96	7.460	7.460	(0.895)	65217	1.00000	1.04203
51 Propionitrile	54	7.446	7.446	(0.893)	19307	10.0000	10.1932
53 2,2-Dichloropropane	77	7.502	7.502	(0.900)	78721	1.00000	0.994434(a)
54 Methacrylonitrile	41	7.572	7.572	(0.908)	88277	10.0000	10.0649
55 Bromochloromethane	128	7.656	7.656	(0.918)	20444	1.00000	1.00275
56 Chloroform	83	7.669	7.669	(0.920)	93462	1.00000	0.999612(a)
60 1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	93590	1.00000	1.01913(Q)
59 Isobutanol	41	7.851	7.851	(0.941)	7728	20.0000	17.8404(aQ)
62 1,1-Dichloropropene	75	8.005	8.005	(0.960)	88635	1.00000	1.03115
63 Carbon Tetrachloride	117	8.047	8.047	(0.965)	74664	1.00000	0.990734(a)
65 1,2-Dichloroethane	62	8.144	8.144	(0.977)	45326	1.00000	1.02220
67 Benzene	78	8.172	8.172	(0.980)	243397	1.00000	1.05033
68 n-Butanol	56	8.340	8.340	(1.000)	17529	30.0000	37.0881(a)
71 Trichloroethene	130	8.619	8.619	(1.033)	65731	1.00000	1.00026
74 1,2-Dichloropropane	63	8.773	8.773	(1.052)	48467	1.00000	1.03210
76 1,4-Dioxane	88	Compound Not Detected.					
77 Dibromomethane	93	8.871	8.871	(1.064)	18073	1.00000	0.996831(a)
78 Bromodichloromethane	83	8.940	8.940	(1.072)	50352	1.00000	0.984690(a)
81 cis-1,3-Dichloropropene	75	9.248	9.248	(0.873)	56691	1.00000	0.984780(a)
82 4-Methyl-2-pentanone	43	9.290	9.290	(0.877)	47383	4.00000	4.06326(a)
84 Toluene	91	9.527	9.527	(1.142)	256942	1.00000	1.04090
86 trans-1,3-Dichloropropene	75	9.611	9.611	(1.152)	37511	1.00000	0.903117(a)
87 1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	22989	1.00000	1.01305(Q)
88 2-Hexanone	43	9.890	9.890	(1.186)	32915	4.00000	4.05798(a)
89 1,3-Dichloropropane	76	9.918	9.918	(0.937)	44405	1.00000	1.06906
90 Tetrachloroethene	164	9.974	9.974	(0.942)	51680	1.00000	1.03998
91 Dibromochloromethane	129	10.128	10.128	(0.956)	23899	1.00000	0.922230(aQ)
93 1,2-Dibromoethane	107	10.267	10.267	(0.970)	20095	1.00000	1.00769
94 1-Chlorohexane	91	10.491	10.491	(0.991)	85186	1.00000	1.03885
96 Chlorobenzene	112	10.616	10.616	(1.003)	151526	1.00000	1.06556
97 1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	40133	1.00000	0.923166(a)
98 Ethylbenzene	106	10.644	10.644	(1.005)	91116	1.00000	0.986908(a)
99 m and p-Xylene	106	10.728	10.728	(1.013)	225547	2.00000	2.05903
101 o-Xylene	106	11.063	11.063	(1.045)	103059	1.00000	0.986586
100 Styrene	104	11.063	11.063	(1.045)	130909	1.00000	0.893047(a)
102 Bromoform	173	11.273	11.273	(1.065)	9887	1.00000	0.857508(aM)
103 isopropyl benzene	105	11.329	11.329	(0.904)	261526	1.00000	1.02013
105 Cyclohexanone	55	11.468	11.468	(1.083)	16822	40.0000	38.9840
107 1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.920)	21616	1.00000	1.04401
109 1,2,3-Trichloropropane	110	Compound Not Detected.					
111 Bromobenzene	156	11.678	11.678	(0.932)	53568	1.00000	0.983751(a)
110 n-Propylbenzene	120	11.664	11.664	(0.931)	80601	1.00000	0.953682(a)
113 2-Chlorotoluene	126	11.803	11.803	(0.942)	64622	1.00000	0.978869(a)
112 1,3,5-Trimethylbenzene	105	11.776	11.776	(0.940)	227410	1.00000	1.01335
114 4-Chlorotoluene	126	11.887	11.887	(0.949)	67987	1.00000	1.04145
115 tert-Butylbenzene	119	12.111	12.111	(0.967)	230147	1.00000	0.990607(a)
116 1,2,4-Trimethylbenzene	105	12.139	12.139	(0.969)	225301	1.00000	1.01178
118 sec-Butylbenzene	134	12.292	12.292	(0.981)	68892	1.00000	1.01310
119 4-Isopropyltoluene	119	12.390	12.390	(0.989)	257211	1.00000	1.02979

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
120 1,3-Dichlorobenzene	146	12.474	12.474	(0.996)	124490	1.00000	1.10684
122 1,4-dichlorobenzene	146	12.558	12.558	(1.002)	109134	1.00000	0.971503
124 n-Butylbenzene	91	12.795	12.795	(1.021)	244835	1.00000	1.01489
126 1,2-Dichlorobenzene	146	12.949	12.949	(1.033)	89832	1.00000	1.03267
127 1,2-Dibromo-3-chloropropane	157	13.759	13.759	(1.098)	2263	1.00000	0.808600(a)
129 1,2,4-Trichlorobenzene	180	14.834	14.834	(1.184)	59260	1.00000	1.00990
130 Hexachlorobutadiene	225	15.016	15.016	(1.198)	47341	1.00000	1.04252
131 Naphthalene	128	15.239	15.239	(1.216)	61865	1.00000	0.895693(a)
132 1,2,3-Trichlorobenzene	180	15.602	15.602	(1.245)	43644	1.00000	0.988044(a)

QC Flag Legend

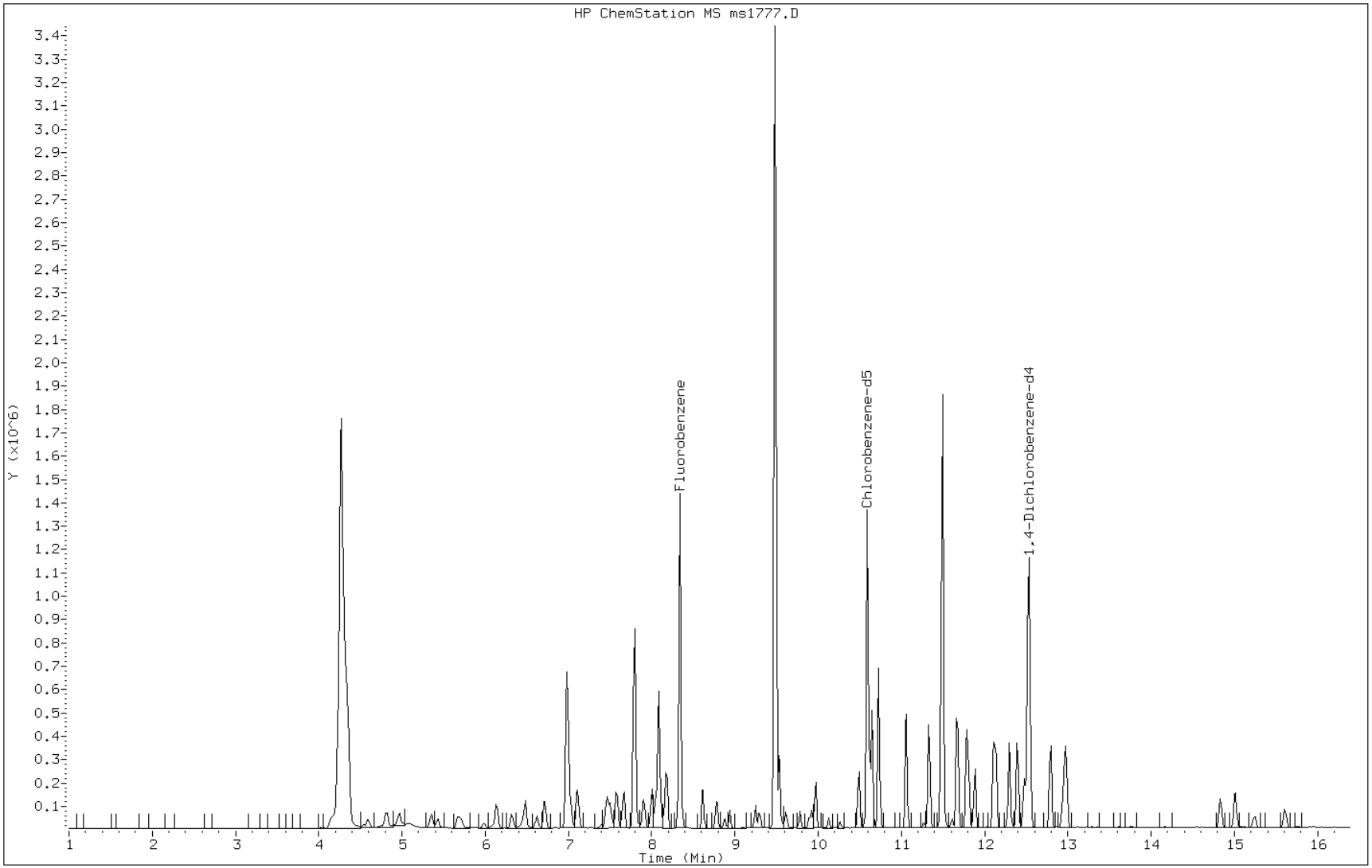
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: ms1777.D

Date: 01-NOV-2011 17:39

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 1.0 Operator: STOLTZK



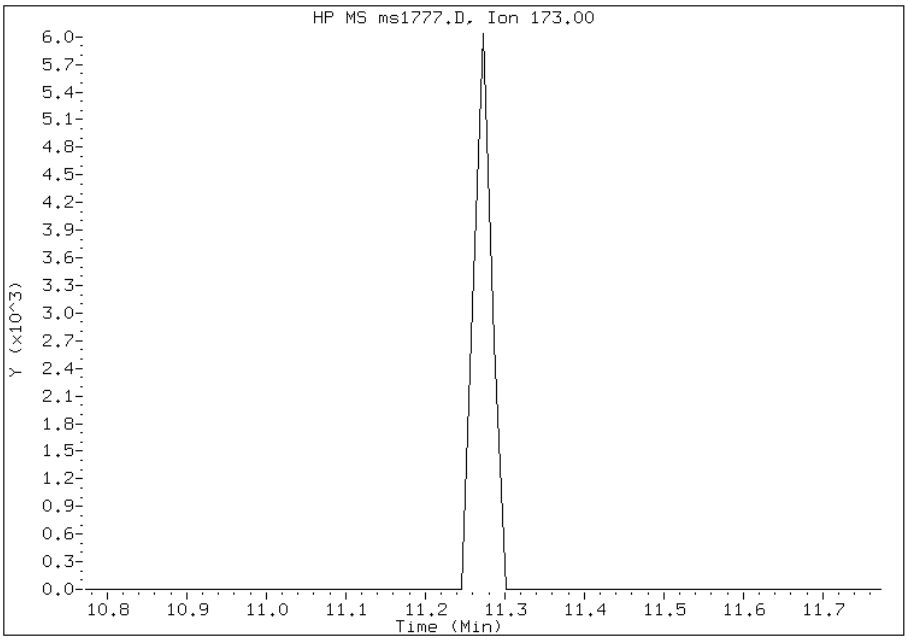
Manual Integration Report

Data File: ms1777.D
Inj. Date and Time: 01-NOV-2011 17:39
Instrument ID: GCMS1.i
Client ID:
Compound: 102 Bromoform
CAS #: 75-25-2
Report Date: 11/02/2011

Processing Integration Results

Not Detected

Expected RT: 11.27



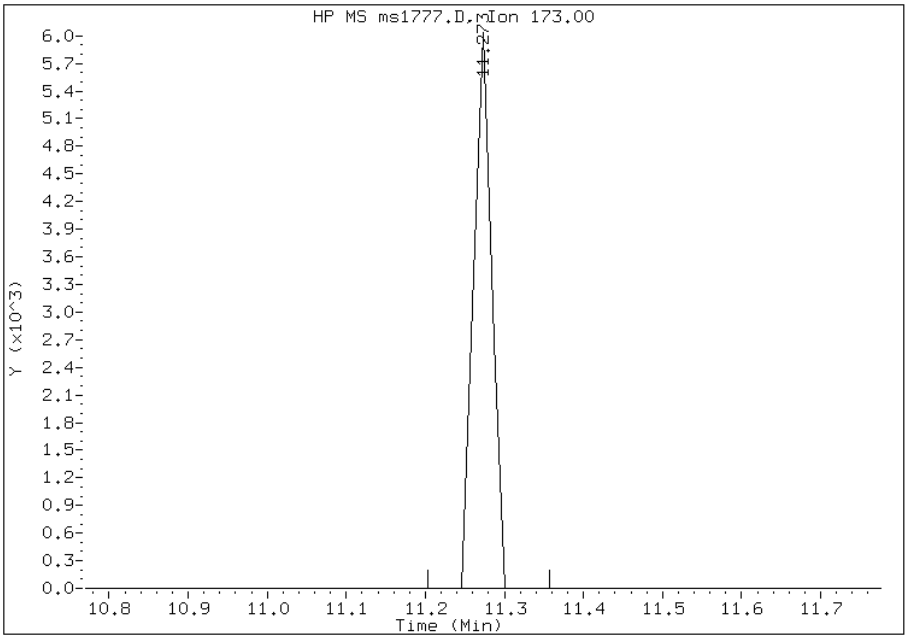
Manual Integration Results

RT: 11.27

Response: 9887

Amount: 1

Conc: 1



Manually Integrated By:
Manual Integration Reason: Unknown

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1778.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 17:59
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,,M 2.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:26 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:00 Cal File: ms1796.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	69 Fluorobenzene	96	8.340	8.340	(1.000)	1415983	12.5000	
*	95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	293303	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	12.530	12.530	(1.000)	392706	12.5000	
M	1 1,2-Dichloroethene (total)	96				248325	4.00000	3.78020
M	2 Xylene (total)	106				668725	6.00000	5.57170
M	3 Trihalomethane (total)	100				361839	8.00000	7.14873
M	4 1,3-Dichloropropene (total)	100				195547	4.00000	3.61835
	5 dichlorodifluoromethane	85	4.597	4.597	(0.551)	99028	2.00000	1.71330(a)
	7 Chloromethane	50	4.820	4.820	(0.578)	172469	2.00000	1.90787(a)
	8 Vinyl Chloride	62	4.974	4.974	(0.596)	179692	2.00000	1.92706
	10 Bromomethane	94	5.365	5.365	(0.643)	107987	2.00000	1.81960(a)
	11 Chloroethane	64	5.435	5.435	(0.652)	95893	2.00000	1.88741(a)
	14 Trichlorofluoromethane	101	5.672	5.672	(0.680)	193447	2.00000	1.95317(a)
	13 Ethanol	45	5.700	5.700	(0.684)	14965	100.000	97.8519(aM)
	19 Acrolein	56	5.993	5.993	(0.719)	49989	20.0000	19.0557(a)
	20 Acetone	43	6.091	6.091	(0.730)	39101	8.00000	9.06741(a)
	23 1,1-Dichloroethene	96	6.147	6.147	(0.737)	102085	2.00000	1.94622
	27 Iodomethane	142	6.329	6.329	(0.759)	154376	2.00000	1.87531
	26 Acetonitrile	41	6.315	6.315	(0.757)	31590	20.0000	19.9673(a)
	30 tert-Butyl alcohol	59	6.440	6.440	(0.772)	48466	40.0000	36.5525(a)
	33 Methylene Chloride	84	6.482	6.482	(0.777)	117664	2.00000	2.20546
	34 Acrylonitrile	53	6.622	6.622	(0.794)	103675	20.0000	19.7435(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
36	trans-1,2-Dichloroethene	96	6.720	6.720	(0.806)	123234	2.00000	1.90680
43	Isopropyl ether	87	6.985	6.985	(0.838)	422452	10.0000	9.20358(a)
44	1,1-Dichloroethane	63	7.027	7.027	(0.843)	204978	2.00000	1.91857
46	Chloroprene	53	7.111	7.111	(0.853)	183449	2.00000	1.86776
50	2-Butanone	43	7.390	7.390	(0.886)	47587	8.00000	7.76385
52	cis-1,2-Dichloroethene	96	7.460	7.460	(0.895)	125091	2.00000	1.87340
51	Propionitrile	54	7.446	7.446	(0.893)	38074	20.0000	18.8412
53	2,2-Dichloropropane	77	7.502	7.502	(0.900)	161426	2.00000	1.91137(a)
54	Methacrylonitrile	41	7.572	7.572	(0.908)	173324	20.0000	18.5228
55	Bromochloromethane	128	7.669	7.669	(0.920)	41789	2.00000	1.92121
56	Chloroform	83	7.669	7.669	(0.920)	188700	2.00000	1.89170
60	1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	185394	2.00000	1.89226
59	Isobutanol	41	7.851	7.851	(0.941)	17246	40.0000	37.3174(aQ)
62	1,1-Dichloropropene	75	8.005	8.005	(0.960)	177794	2.00000	1.93874
63	Carbon Tetrachloride	117	8.047	8.047	(0.965)	150880	2.00000	1.87656
65	1,2-Dichloroethane	62	8.144	8.144	(0.977)	90737	2.00000	1.91804
67	Benzene	78	8.186	8.186	(0.982)	479246	2.00000	1.93846
68	n-Butanol	56	8.340	8.340	(1.000)	29625	60.0000	58.7518
71	Trichloroethene	130	8.619	8.619	(1.033)	129927	2.00000	1.85322
74	1,2-Dichloropropane	63	8.787	8.787	(1.054)	94384	2.00000	1.88391
76	1,4-Dioxane	88	8.829	8.829	(1.059)	15123	100.000	91.9017(a)
77	Dibromomethane	93	8.885	8.885	(1.065)	36525	2.00000	1.88828
78	Bromodichloromethane	83	8.940	8.940	(1.072)	101807	2.00000	1.86615
81	cis-1,3-Dichloropropene	75	9.248	9.248	(0.873)	114270	2.00000	1.78419
82	4-Methyl-2-pentanone	43	9.290	9.290	(0.877)	95754	8.00000	7.38060
84	Toluene	91	9.541	9.541	(1.144)	502721	2.00000	1.90891
86	trans-1,3-Dichloropropene	75	9.611	9.611	(1.152)	81277	2.00000	1.83416
87	1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	47278	2.00000	1.95278
88	2-Hexanone	43	9.890	9.890	(1.186)	64615	8.00000	7.46680
89	1,3-Dichloropropane	76	9.918	9.918	(0.937)	89706	2.00000	1.94123
90	Tetrachloroethene	164	9.974	9.974	(0.942)	104651	2.00000	1.89291
91	Dibromochloromethane	129	10.128	10.128	(0.956)	50147	2.00000	1.73935(Q)
93	1,2-Dibromoethane	107	10.267	10.267	(0.970)	41894	2.00000	1.88831
94	1-Chlorohexane	91	10.491	10.491	(0.991)	174099	2.00000	1.90838
96	Chlorobenzene	112	10.616	10.616	(1.003)	301489	2.00000	1.90567
97	1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	84595	2.00000	1.74906
98	Ethylbenzene	106	10.644	10.644	(1.005)	187310	2.00000	1.82358
99	m and p-Xylene	106	10.728	10.728	(1.013)	457165	4.00000	3.75131
101	o-Xylene	106	11.063	11.063	(1.045)	211560	2.00000	1.82040
100	Styrene	104	11.049	11.049	(1.044)	277359	2.00000	1.70071
102	Bromoform	173	11.273	11.273	(1.065)	21185	2.00000	1.65153
103	isopropyl benzene	105	11.329	11.329	(0.904)	526910	2.00000	1.92902
105	Cyclohexanone	55	11.454	11.454	(1.082)	34764	80.0000	72.4139
107	1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.920)	44135	2.00000	2.00064
109	1,2,3-Trichloropropane	110	11.608	11.608	(0.926)	13218	2.00000	1.98660
111	Bromobenzene	156	11.678	11.678	(0.932)	105739	2.00000	1.82252
110	n-Propylbenzene	120	11.664	11.664	(0.931)	168342	2.00000	1.86945
113	2-Chlorotoluene	126	11.803	11.803	(0.942)	132358	2.00000	1.88171
112	1,3,5-Trimethylbenzene	105	11.776	11.776	(0.940)	465104	2.00000	1.94517
114	4-Chlorotoluene	126	11.887	11.887	(0.949)	137036	2.00000	1.97018
115	tert-Butylbenzene	119	12.111	12.111	(0.967)	481404	2.00000	1.94475
116	1,2,4-Trimethylbenzene	105	12.139	12.139	(0.969)	459271	2.00000	1.93575
118	sec-Butylbenzene	134	12.292	12.292	(0.981)	138501	2.00000	1.91159
119	4-Isopropyltoluene	119	12.390	12.390	(0.989)	533153	2.00000	2.00341

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
120 1,3-Dichlorobenzene	146	12.474	12.474	(0.996)	230413	2.00000	1.92271
122 1,4-dichlorobenzene	146	12.558	12.558	(1.002)	244580	2.00000	2.04345
124 n-Butylbenzene	91	12.795	12.795	(1.021)	508682	2.00000	1.97902
126 1,2-Dichlorobenzene	146	12.949	12.949	(1.033)	181514	2.00000	1.95840
127 1,2-Dibromo-3-chloropropane	157	13.759	13.759	(1.098)	5294	2.00000	1.77538(a)
129 1,2,4-Trichlorobenzene	180	14.834	14.834	(1.184)	123315	2.00000	1.97238
130 Hexachlorobutadiene	225	15.016	15.016	(1.198)	97823	2.00000	2.02184
131 Naphthalene	128	15.239	15.239	(1.216)	146934	2.00000	1.99662
132 1,2,3-Trichlorobenzene	180	15.602	15.602	(1.245)	93809	2.00000	1.99322

QC Flag Legend

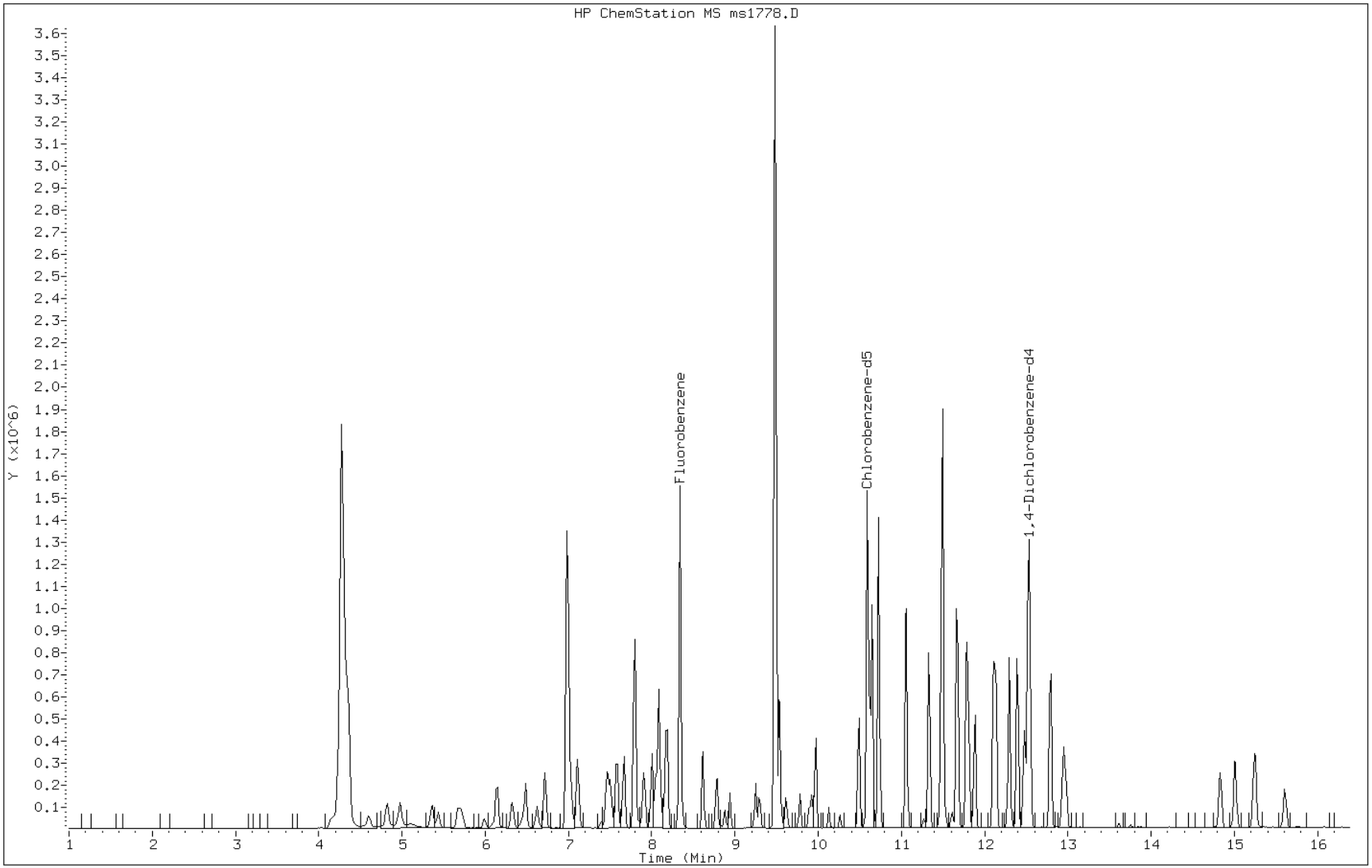
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: ms1778.D

Date: 01-NOV-2011 17:59

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 2.0 Operator: STOLTZK



Manual Integration Report

Data File: ms1778.D
Inj. Date and Time: 01-NOV-2011 17:59
Instrument ID: GCMS1.i
Client ID:
Compound: 13 Ethanol
CAS #: 64-17-5
Report Date: 11/02/2011

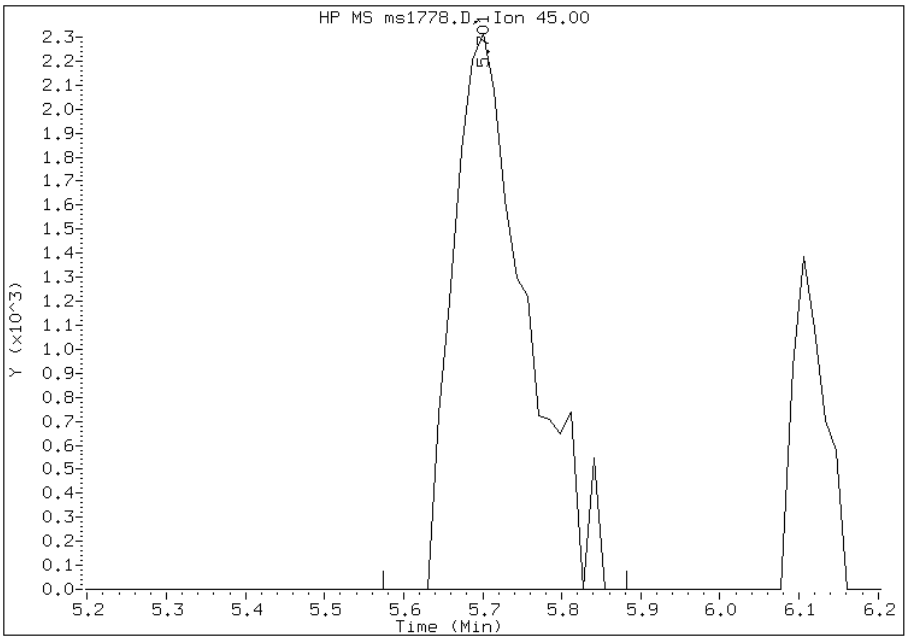
Processing Integration Results

RT: 5.70

Response: 14965

Amount: 98

Conc: 98



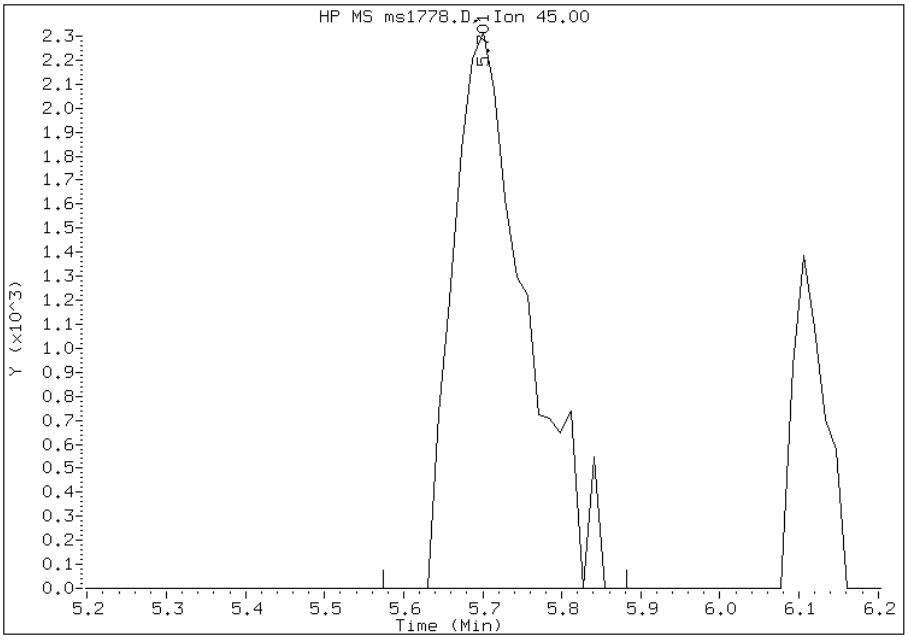
Manual Integration Results

RT: 5.70

Response: 14965

Amount: 98

Conc: 98



Manually Integrated By: seifertj
Manual Integration Reason: Analyte not Identified by the Data System

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1779.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 18:19
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,,M 5.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:26 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:21 Cal File: ms1797.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	69 Fluorobenzene	96	8.340	8.340	(1.000)	1393916	12.5000	
*	95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	279447	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	12.530	12.530	(1.000)	392062	12.5000	
M	1 1,2-Dichloroethene (total)	96				637134	10.0000	9.85187
M	2 Xylene (total)	106				1723196	15.0000	15.0694
M	3 Trihalomethane (total)	100				949766	20.0000	19.9151
M	4 1,3-Dichloropropene (total)	100				533559	10.0000	10.2020
	5 dichlorodifluoromethane	85	4.597	4.597	(0.551)	302224	5.00000	5.31162
	7 Chloromethane	50	4.820	4.820	(0.578)	462901	5.00000	5.20173
	8 Vinyl Chloride	62	4.974	4.974	(0.596)	479465	5.00000	5.22329
	10 Bromomethane	94	5.365	5.365	(0.643)	279986	5.00000	4.79250
	11 Chloroethane	64	5.435	5.435	(0.652)	248720	5.00000	4.97292
	14 Trichlorofluoromethane	101	5.672	5.672	(0.680)	497213	5.00000	5.09967
	13 Ethanol	45	5.686	5.686	(0.682)	40208	250.000	267.071
	19 Acrolein	56	5.993	5.993	(0.719)	128706	50.0000	49.8391
	20 Acetone	43	6.091	6.091	(0.730)	86290	20.0000	20.3272
	23 1,1-Dichloroethene	96	6.133	6.133	(0.735)	257731	5.00000	4.99135
	27 Iodomethane	142	6.315	6.315	(0.757)	405168	5.00000	4.99977
	26 Acetonitrile	41	6.315	6.315	(0.757)	79865	50.0000	51.2801
	30 tert-Butyl alcohol	59	6.440	6.440	(0.772)	129566	100.000	99.2641
	33 Methylene Chloride	84	6.482	6.482	(0.777)	267420	5.00000	5.09179
	34 Acrylonitrile	53	6.622	6.622	(0.794)	260116	50.0000	50.3199

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
36 trans-1,2-Dichloroethene	96	6.720	6.720	(0.806)	314944	5.00000	4.95026
43 Isopropyl ether	87	6.985	6.985	(0.838)	1096816	25.0000	24.2736
44 1,1-Dichloroethane	63	7.027	7.027	(0.843)	523108	5.00000	4.97373
46 Chloroprene	53	7.111	7.111	(0.853)	473349	5.00000	4.89563
50 2-Butanone	43	7.390	7.390	(0.886)	116564	20.0000	19.3186
52 cis-1,2-Dichloroethene	96	7.460	7.460	(0.895)	322190	5.00000	4.90160
51 Propionitrile	54	7.446	7.446	(0.893)	95888	50.0000	48.2020
53 2,2-Dichloropropane	77	7.502	7.502	(0.900)	411067	5.00000	4.94430(a)
54 Methacrylonitrile	41	7.572	7.572	(0.908)	448738	50.0000	48.7150
55 Bromochloromethane	128	7.669	7.669	(0.920)	106408	5.00000	4.96945
56 Chloroform	83	7.669	7.669	(0.920)	482095	5.00000	4.90948
60 1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	471749	5.00000	4.89122
59 Isobutanol	41	7.851	7.851	(0.941)	50681	100.000	111.401
62 1,1-Dichloropropene	75	8.005	8.005	(0.960)	442612	5.00000	4.90283
63 Carbon Tetrachloride	117	8.047	8.047	(0.965)	387947	5.00000	4.90145
65 1,2-Dichloroethane	62	8.144	8.144	(0.977)	228789	5.00000	4.91282
67 Benzene	78	8.186	8.186	(0.982)	1210926	5.00000	4.97550
68 n-Butanol	56	8.340	8.340	(1.000)	68463	150.000	137.924
71 Trichloroethene	130	8.619	8.619	(1.033)	336137	5.00000	4.87042
74 1,2-Dichloropropane	63	8.773	8.773	(1.052)	243823	5.00000	4.94377
76 1,4-Dioxane	88	8.829	8.829	(1.059)	43318	250.000	267.408
77 Dibromomethane	93	8.871	8.871	(1.064)	96321	5.00000	5.05847
78 Bromodichloromethane	83	8.940	8.940	(1.072)	270204	5.00000	5.03131
81 cis-1,3-Dichloropropene	75	9.248	9.248	(0.873)	310484	5.00000	5.08820
82 4-Methyl-2-pentanone	43	9.290	9.290	(0.877)	249752	20.0000	20.2051
84 Toluene	91	9.527	9.527	(1.142)	1267980	5.00000	4.89094
86 trans-1,3-Dichloropropene	75	9.611	9.611	(1.152)	223075	5.00000	5.11379
87 1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	117113	5.00000	4.91384
88 2-Hexanone	43	9.890	9.890	(1.186)	163862	20.0000	19.2354
89 1,3-Dichloropropane	76	9.918	9.918	(0.937)	224686	5.00000	5.10327
90 Tetrachloroethene	164	9.974	9.974	(0.942)	263329	5.00000	4.99921
91 Dibromochloromethane	129	10.127	10.127	(0.956)	136136	5.00000	4.95602
93 1,2-Dibromoethane	107	10.267	10.267	(0.970)	107907	5.00000	5.10491
94 1-Chlorohexane	91	10.491	10.491	(0.991)	434570	5.00000	4.99973
96 Chlorobenzene	112	10.616	10.616	(1.003)	750045	5.00000	4.97600
97 1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	224267	5.00000	4.86680
98 Ethylbenzene	106	10.644	10.644	(1.005)	472690	5.00000	4.83013
99 m and p-Xylene	106	10.728	10.728	(1.013)	1177711	10.0000	10.1430
101 o-Xylene	106	11.063	11.063	(1.045)	545485	5.00000	4.92643
100 Styrene	104	11.049	11.049	(1.044)	756613	5.00000	4.86944
102 Bromoform	173	11.273	11.273	(1.065)	61331	5.00000	5.01827
103 isopropyl benzene	105	11.329	11.329	(0.904)	1338082	5.00000	4.90677
105 Cyclohexanone	55	11.454	11.454	(1.082)	96645	200.000	211.295
107 1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.920)	109931	5.00000	4.99136
109 1,2,3-Trichloropropane	110	11.608	11.608	(0.926)	34052	5.00000	5.12627
111 Bromobenzene	156	11.678	11.678	(0.932)	277814	5.00000	4.79628
110 n-Propylbenzene	120	11.664	11.664	(0.931)	435682	5.00000	4.84623
113 2-Chlorotoluene	126	11.803	11.803	(0.942)	336810	5.00000	4.79623
112 1,3,5-Trimethylbenzene	105	11.775	11.775	(0.940)	1185346	5.00000	4.96553
114 4-Chlorotoluene	126	11.887	11.887	(0.949)	340769	5.00000	4.90733
115 tert-Butylbenzene	119	12.097	12.097	(0.965)	1219574	5.00000	4.93486
116 1,2,4-Trimethylbenzene	105	12.125	12.125	(0.968)	1171923	5.00000	4.94756
118 sec-Butylbenzene	134	12.292	12.292	(0.981)	352040	5.00000	4.86683
119 4-Isopropyltoluene	119	12.390	12.390	(0.989)	1354399	5.00000	5.09774

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
120 1,3-Dichlorobenzene	146	12.474	12.474	(0.996)	578661	5.00000	4.83664
122 1,4-dichlorobenzene	146	12.544	12.544	(1.001)	593235	5.00000	4.96457
124 n-Butylbenzene	91	12.781	12.781	(1.020)	1261369	5.00000	4.91541
126 1,2-Dichlorobenzene	146	12.949	12.949	(1.033)	460580	5.00000	4.97747
127 1,2-Dibromo-3-chloropropane	157	13.759	13.759	(1.098)	14132	5.00000	4.74705
129 1,2,4-Trichlorobenzene	180	14.834	14.834	(1.184)	314449	5.00000	5.03778
130 Hexachlorobutadiene	225	15.002	15.002	(1.197)	238346	5.00000	4.93431
131 Naphthalene	128	15.239	15.239	(1.216)	375946	5.00000	5.11695
132 1,2,3-Trichlorobenzene	180	15.602	15.602	(1.245)	240116	5.00000	5.11027

QC Flag Legend

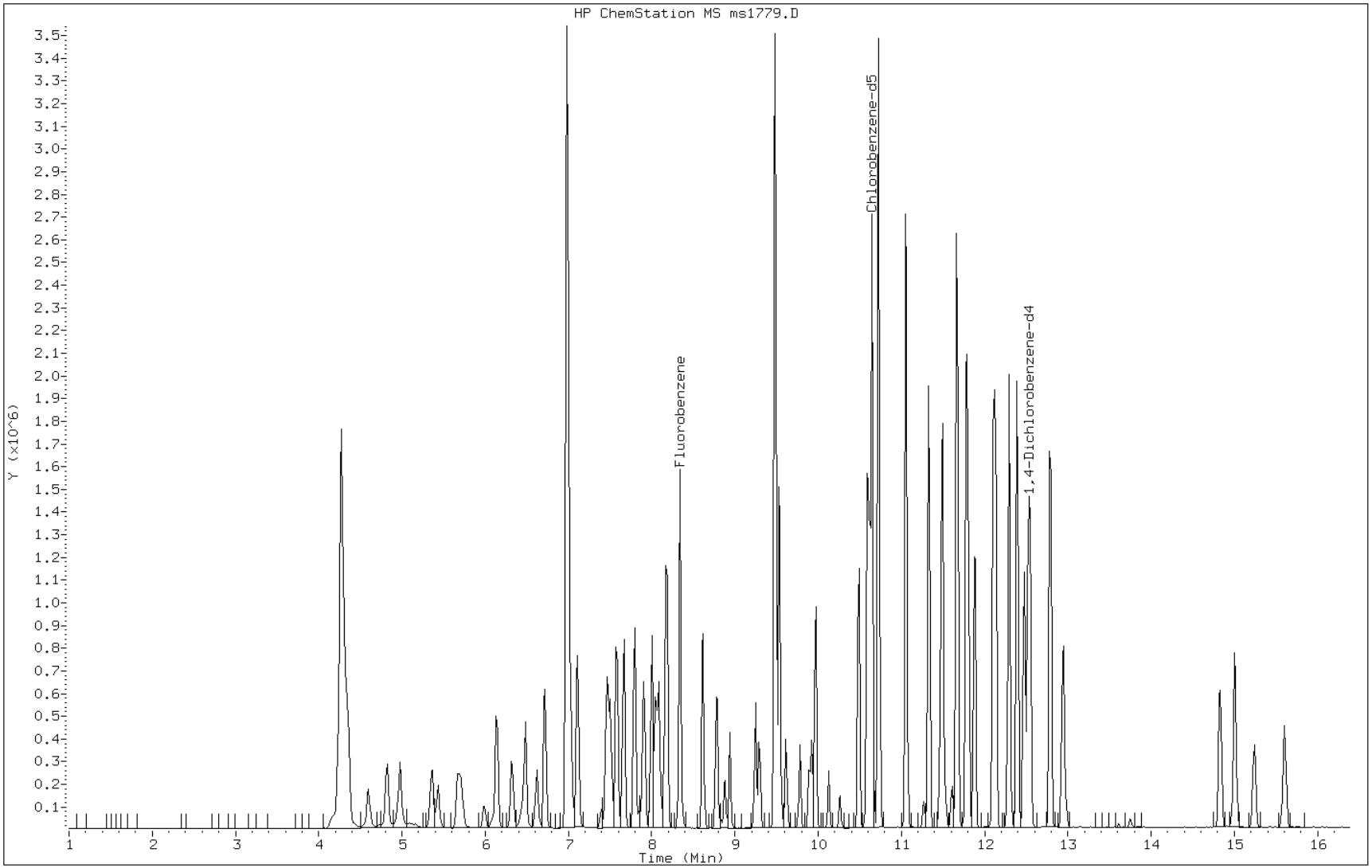
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: ms1779.D

Date: 01-NOV-2011 18:19

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 5.0 Operator: STOLTZK



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1780.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 18:39
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,,M 10.0
Misc Info :
Comment :
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Meth Date : 02-Nov-2011 16:26 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:41 Cal File: ms1798.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	69 Fluorobenzene	96	8.339	8.339	(1.000)	1420734	12.5000	
*	95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	288251	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	405179	12.5000	
M	1 1,2-Dichloroethene (total)	96				1321821	20.0000	20.0558
M	2 Xylene (total)	106				3654605	30.0000	30.9877
M	3 Trihalomethane (total)	100				2023663	40.0000	41.8630
M	4 1,3-Dichloropropene (total)	100				1145507	20.0000	21.3591
	5 dichlorodifluoromethane	85	4.597	4.597	(0.551)	631603	10.0000	10.8910
	7 Chloromethane	50	4.820	4.820	(0.578)	942509	10.0000	10.3913
	8 Vinyl Chloride	62	4.974	4.974	(0.596)	985357	10.0000	10.5318
	10 Bromomethane	94	5.365	5.365	(0.643)	594331	10.0000	9.98109
	11 Chloroethane	64	5.434	5.434	(0.652)	521257	10.0000	10.2253
	14 Trichlorofluoromethane	101	5.672	5.672	(0.680)	1046192	10.0000	10.5277
	13 Ethanol	45	5.686	5.686	(0.682)	80795	500.000	526.529
	19 Acrolein	56	5.993	5.993	(0.719)	267358	100.000	101.575
	20 Acetone	43	6.091	6.091	(0.730)	171447	40.0000	39.6251
	23 1,1-Dichloroethene	96	6.147	6.147	(0.737)	534737	10.0000	10.1605
	27 Iodomethane	142	6.328	6.328	(0.759)	840123	10.0000	10.1714
	26 Acetonitrile	41	6.314	6.314	(0.757)	158078	100.000	99.5835
	30 tert-Butyl alcohol	59	6.440	6.440	(0.772)	272310	200.000	204.686
	33 Methylene Chloride	84	6.482	6.482	(0.777)	525430	10.0000	9.81557
	34 Acrylonitrile	53	6.622	6.622	(0.794)	534941	100.000	101.532

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
36 trans-1,2-Dichloroethene	96	6.719	6.719	(0.806)	658697	10.0000	10.1579
43 Isopropyl ether	87	6.985	6.985	(0.838)	2360338	50.0000	51.2506
44 1,1-Dichloroethane	63	7.027	7.027	(0.843)	1087131	10.0000	10.1414
46 Chloroprene	53	7.110	7.110	(0.853)	1020895	10.0000	10.3593
50 2-Butanone	43	7.390	7.390	(0.886)	247671	40.0000	40.2725
52 cis-1,2-Dichloroethene	96	7.460	7.460	(0.894)	663124	10.0000	9.89794
51 Propionitrile	54	7.446	7.446	(0.893)	202854	100.000	100.048
53 2,2-Dichloropropane	77	7.501	7.501	(0.900)	869064	10.0000	10.2558
54 Methacrylonitrile	41	7.571	7.571	(0.908)	946073	100.000	100.767
55 Bromochloromethane	128	7.669	7.669	(0.920)	220207	10.0000	10.0899
56 Chloroform	83	7.669	7.669	(0.920)	1021816	10.0000	10.2094
60 1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	1009339	10.0000	10.2676
59 Isobutanol	41	7.851	7.851	(0.941)	97021	200.000	209.235
62 1,1-Dichloropropene	75	8.004	8.004	(0.960)	940475	10.0000	10.2210
63 Carbon Tetrachloride	117	8.046	8.046	(0.965)	835482	10.0000	10.3565
65 1,2-Dichloroethane	62	8.144	8.144	(0.977)	478091	10.0000	10.0723
67 Benzene	78	8.186	8.186	(0.982)	2514247	10.0000	10.1356
68 n-Butanol	56	8.339	8.339	(1.000)	141011	300.000	278.716
71 Trichloroethene	130	8.619	8.619	(1.033)	717348	10.0000	10.1977
74 1,2-Dichloropropane	63	8.786	8.786	(1.054)	509766	10.0000	10.1409
76 1,4-Dioxane	88	8.828	8.828	(1.059)	87420	500.000	529.470
77 Dibromomethane	93	8.884	8.884	(1.065)	201569	10.0000	10.3859
78 Bromodichloromethane	83	8.940	8.940	(1.072)	565523	10.0000	10.3315
81 cis-1,3-Dichloropropene	75	9.247	9.247	(0.873)	667017	10.0000	10.5972
82 4-Methyl-2-pentanone	43	9.289	9.289	(0.877)	539666	40.0000	42.3258
84 Toluene	91	9.541	9.541	(1.144)	2669408	10.0000	10.1023
86 trans-1,3-Dichloropropene	75	9.610	9.610	(1.152)	478490	10.0000	10.7619
87 1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	243864	10.0000	10.0389
88 2-Hexanone	43	9.890	9.890	(1.186)	352632	40.0000	40.6133
89 1,3-Dichloropropane	76	9.918	9.918	(0.937)	467902	10.0000	10.3028
90 Tetrachloroethene	164	9.974	9.974	(0.942)	550444	10.0000	10.1308
91 Dibromochloromethane	129	10.127	10.127	(0.956)	301806	10.0000	10.6516
93 1,2-Dibromoethane	107	10.267	10.267	(0.970)	229054	10.0000	10.5052
94 1-Chlorohexane	91	10.490	10.490	(0.991)	928157	10.0000	10.3523
96 Chlorobenzene	112	10.616	10.616	(1.003)	1565930	10.0000	10.0715
97 1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	489060	10.0000	10.2889
98 Ethylbenzene	106	10.644	10.644	(1.005)	1006781	10.0000	9.97346
99 m and p-Xylene	106	10.728	10.728	(1.013)	2487463	20.0000	20.7688
101 o-Xylene	106	11.063	11.063	(1.045)	1167142	10.0000	10.2188
100 Styrene	104	11.049	11.049	(1.044)	1672042	10.0000	10.4323
102 Bromoform	173	11.272	11.272	(1.065)	134518	10.0000	10.6705
103 isopropyl benzene	105	11.328	11.328	(0.904)	2809027	10.0000	9.96729
105 Cyclohexanone	55	11.454	11.454	(1.082)	206627	400.000	437.951
107 1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.920)	230196	10.0000	10.1136
109 1,2,3-Trichloropropane	110	11.608	11.608	(0.926)	68087	10.0000	9.91815
111 Bromobenzene	156	11.677	11.677	(0.932)	585249	10.0000	9.77686
110 n-Propylbenzene	120	11.663	11.663	(0.931)	902947	10.0000	9.71861
113 2-Chlorotoluene	126	11.803	11.803	(0.942)	697831	10.0000	9.61553
112 1,3,5-Trimethylbenzene	105	11.775	11.775	(0.940)	2505995	10.0000	10.1580
114 4-Chlorotoluene	126	11.887	11.887	(0.949)	714100	10.0000	9.95066
115 tert-Butylbenzene	119	12.096	12.096	(0.965)	2577269	10.0000	10.0910
116 1,2,4-Trimethylbenzene	105	12.124	12.124	(0.968)	2477482	10.0000	10.1207
118 sec-Butylbenzene	134	12.292	12.292	(0.981)	744950	10.0000	9.96527
119 4-Isopropyltoluene	119	12.390	12.390	(0.989)	2846334	10.0000	10.3663

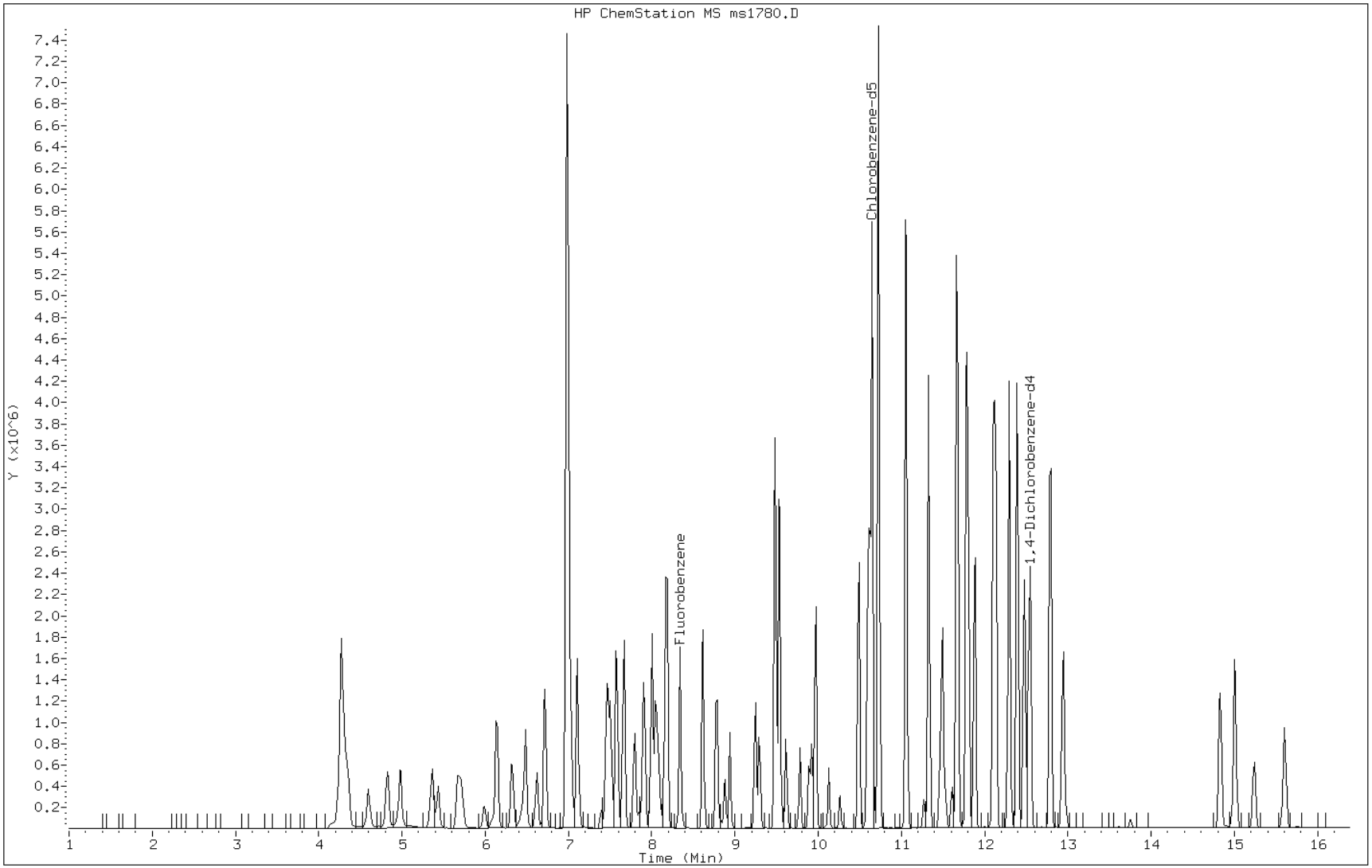
						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
120 1,3-Dichlorobenzene	146	12.473	12.473	(0.996)	1202300	10.0000	9.72390
122 1,4-dichlorobenzene	146	12.543	12.543	(1.001)	1234824	10.0000	9.99927
124 n-Butylbenzene	91	12.795	12.795	(1.021)	2627407	10.0000	9.90724
126 1,2-Dichlorobenzene	146	12.948	12.948	(1.033)	945145	10.0000	9.88347
127 1,2-Dibromo-3-chloropropane	157	13.758	13.758	(1.098)	33052	10.0000	10.7430
129 1,2,4-Trichlorobenzene	180	14.834	14.834	(1.184)	644607	10.0000	9.99290
130 Hexachlorobutadiene	225	15.001	15.001	(1.197)	492808	10.0000	9.87198
131 Naphthalene	128	15.239	15.239	(1.216)	787167	10.0000	10.3672
132 1,2,3-Trichlorobenzene	180	15.602	15.602	(1.245)	496152	10.0000	10.2175

Data File: ms1780.D

Date: 01-NOV-2011 18:39

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 10.0 Operator: STOLTZK



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1781.D
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Inj Date : 01-NOV-2011 18:59
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,,M 30.0
Misc Info :
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Meth Date : 02-Nov-2011 16:26 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:01 Cal File: ms1799.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	69 Fluorobenzene	96	8.339	8.339	(1.000)	1522511	12.5000		
*	95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	321985	12.5000		
*	121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	444192	12.5000		(Q)
M	1 1,2-Dichloroethene (total)	96				4359201	60.0000	61.7012	
M	2 Xylene (total)	106				13172102	90.0000	100.006	
M	3 Trihalomethane (total)	100				6850372	120.000	132.877	
M	4 1,3-Dichloropropene (total)	100				3905347	60.0000	66.6465	
	5 dichlorodifluoromethane	85	4.597	4.597	(0.551)	1891183	30.0000	30.4304	
	7 Chloromethane	50	4.834	4.834	(0.580)	2814491	30.0000	28.9558	
	8 Vinyl Chloride	62	4.988	4.988	(0.598)	2911642	30.0000	29.0403	
	10 Bromomethane	94	5.365	5.365	(0.643)	2001688	30.0000	31.3688	
	11 Chloroethane	64	5.434	5.434	(0.652)	1688519	30.0000	30.9089	
	14 Trichlorofluoromethane	101	5.672	5.672	(0.680)	3215178	30.0000	30.1912	
	13 Ethanol	45	5.686	5.686	(0.682)	240379	1500.00	1461.80	
	19 Acrolein	56	5.979	5.979	(0.717)	882556	300.000	312.889	
	20 Acetone	43	6.091	6.091	(0.730)	534410	120.000	115.257	
	23 1,1-Dichloroethene	96	6.133	6.133	(0.735)	1694674	30.0000	30.0479	
	27 Iodomethane	142	6.314	6.314	(0.757)	2699660	30.0000	30.5000	
	26 Acetonitrile	41	6.314	6.314	(0.757)	458882	300.000	269.755	
	30 tert-Butyl alcohol	59	6.426	6.426	(0.771)	886339	600.000	621.695	
	33 Methylene Chloride	84	6.482	6.482	(0.777)	1665095	30.0000	29.0263	
	34 Acrylonitrile	53	6.622	6.622	(0.794)	1785936	300.000	316.311	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
36	trans-1,2-Dichloroethene	96	6.719	6.719	(0.806)	2130964	30.0000	30.6653
43	Isopropyl ether	87	6.985	6.985	(0.838)	8317499	150.000	168.527
44	1,1-Dichloroethane	63	7.027	7.027	(0.843)	3564057	30.0000	31.0250
46	Chloroprene	53	7.110	7.110	(0.853)	3350909	30.0000	31.7297
50	2-Butanone	43	7.390	7.390	(0.886)	825850	120.000	125.310
52	cis-1,2-Dichloroethene	96	7.460	7.460	(0.894)	2228237	30.0000	31.0358
51	Propionitrile	54	7.446	7.446	(0.893)	688365	300.000	316.808
53	2,2-Dichloropropane	77	7.501	7.501	(0.900)	2860898	30.0000	31.5043
54	Methacrylonitrile	41	7.571	7.571	(0.908)	3234645	300.000	321.494
55	Bromochloromethane	128	7.655	7.655	(0.918)	749159	30.0000	32.0320
56	Chloroform	83	7.669	7.669	(0.920)	3361616	30.0000	31.3420
60	1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	3281202	30.0000	31.1470
59	Isobutanol	41	7.851	7.851	(0.941)	303296	600.000	610.362
62	1,1-Dichloropropene	75	8.004	8.004	(0.960)	3057549	30.0000	31.0079
63	Carbon Tetrachloride	117	8.046	8.046	(0.965)	2758000	30.0000	31.9024
65	1,2-Dichloroethane	62	8.144	8.144	(0.977)	1578554	30.0000	31.0335
67	Benzene	78	8.172	8.172	(0.980)	8148135	30.0000	30.6516
68	n-Butanol	56	8.339	8.339	(1.000)	456721	900.000	842.387
71	Trichloroethene	130	8.619	8.619	(1.033)	2385933	30.0000	31.6508
74	1,2-Dichloropropane	63	8.786	8.786	(1.054)	1679280	30.0000	31.1733
76	1,4-Dioxane	88	8.828	8.828	(1.059)	266932	1500.00	1508.63
77	Dibromomethane	93	8.870	8.870	(1.064)	663447	30.0000	31.8992
78	Bromodichloromethane	83	8.940	8.940	(1.072)	1928592	30.0000	32.8780
81	cis-1,3-Dichloropropene	75	9.247	9.247	(0.873)	2264381	30.0000	32.2061
82	4-Methyl-2-pentanone	43	9.289	9.289	(0.877)	1799256	120.000	126.331
84	Toluene	91	9.527	9.527	(1.142)	8632889	30.0000	30.4868
86	trans-1,3-Dichloropropene	75	9.610	9.610	(1.152)	1640966	30.0000	34.4404
87	1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	815112	30.0000	31.3119
88	2-Hexanone	43	9.890	9.890	(1.186)	1189853	120.000	127.877
89	1,3-Dichloropropane	76	9.918	9.918	(0.937)	1540810	30.0000	30.3729
90	Tetrachloroethene	164	9.974	9.974	(0.942)	1864147	30.0000	30.7147
91	Dibromochloromethane	129	10.127	10.127	(0.956)	1068929	30.0000	33.7732
93	1,2-Dibromoethane	107	10.267	10.267	(0.970)	765646	30.0000	31.4362
94	1-Chlorohexane	91	10.490	10.490	(0.991)	3130309	30.0000	31.2563
96	Chlorobenzene	112	10.616	10.616	(1.003)	5318554	30.0000	30.6232
97	1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	1800393	30.0000	33.9086
98	Ethylbenzene	106	10.644	10.644	(1.005)	3633790	30.0000	32.2260
99	m and p-Xylene	106	10.728	10.728	(1.013)	8908825	60.0000	66.5903(A)
101	o-Xylene	106	11.063	11.063	(1.045)	4263277	30.0000	33.4162
100	Styrene	104	11.049	11.049	(1.044)	6284901	30.0000	35.1049
102	Bromoform	173	11.272	11.272	(1.065)	491235	30.0000	34.8841
103	isopropyl benzene	105	11.328	11.328	(0.904)	9427762	30.0000	30.5145
105	Cyclohexanone	55	11.454	11.454	(1.082)	649958	1200.00	1233.27
107	1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.920)	756522	30.0000	30.3183
109	1,2,3-Trichloropropane	110	11.608	11.608	(0.926)	232885	30.0000	30.9445
111	Bromobenzene	156	11.677	11.677	(0.932)	2118868	30.0000	32.2878
110	n-Propylbenzene	120	11.663	11.663	(0.931)	3345028	30.0000	32.8411
113	2-Chlorotoluene	126	11.803	11.803	(0.942)	2530456	30.0000	31.8052
112	1,3,5-Trimethylbenzene	105	11.775	11.775	(0.940)	8891103	30.0000	32.8746
114	4-Chlorotoluene	126	11.887	11.887	(0.949)	2497736	30.0000	31.7479
115	tert-Butylbenzene	119	12.110	12.110	(0.967)	9129381	30.0000	32.6056
116	1,2,4-Trimethylbenzene	105	12.124	12.124	(0.968)	8814038	30.0000	32.8436
118	sec-Butylbenzene	134	12.292	12.292	(0.981)	2671560	30.0000	32.5989
119	4-Isopropyltoluene	119	12.390	12.390	(0.989)	9953908	30.0000	33.0681

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
120 1,3-Dichlorobenzene	146	12.473	12.473	(0.996)	4189315	30.0000	30.9063
122 1,4-dichlorobenzene	146	12.543	12.543	(1.001)	4324494	30.0000	31.9429
124 n-Butylbenzene	91	12.781	12.781	(1.020)	9126023	30.0000	31.3894
126 1,2-Dichlorobenzene	146	12.948	12.948	(1.033)	3256271	30.0000	31.0604
127 1,2-Dibromo-3-chloropropane	157	13.758	13.758	(1.098)	115397	30.0000	34.2136
129 1,2,4-Trichlorobenzene	180	14.834	14.834	(1.184)	2213516	30.0000	31.3008
130 Hexachlorobutadiene	225	15.001	15.001	(1.197)	1722253	30.0000	31.4702
131 Naphthalene	128	15.239	15.239	(1.216)	2659682	30.0000	31.9521
132 1,2,3-Trichlorobenzene	180	15.602	15.602	(1.245)	1650207	30.0000	30.9988

QC Flag Legend

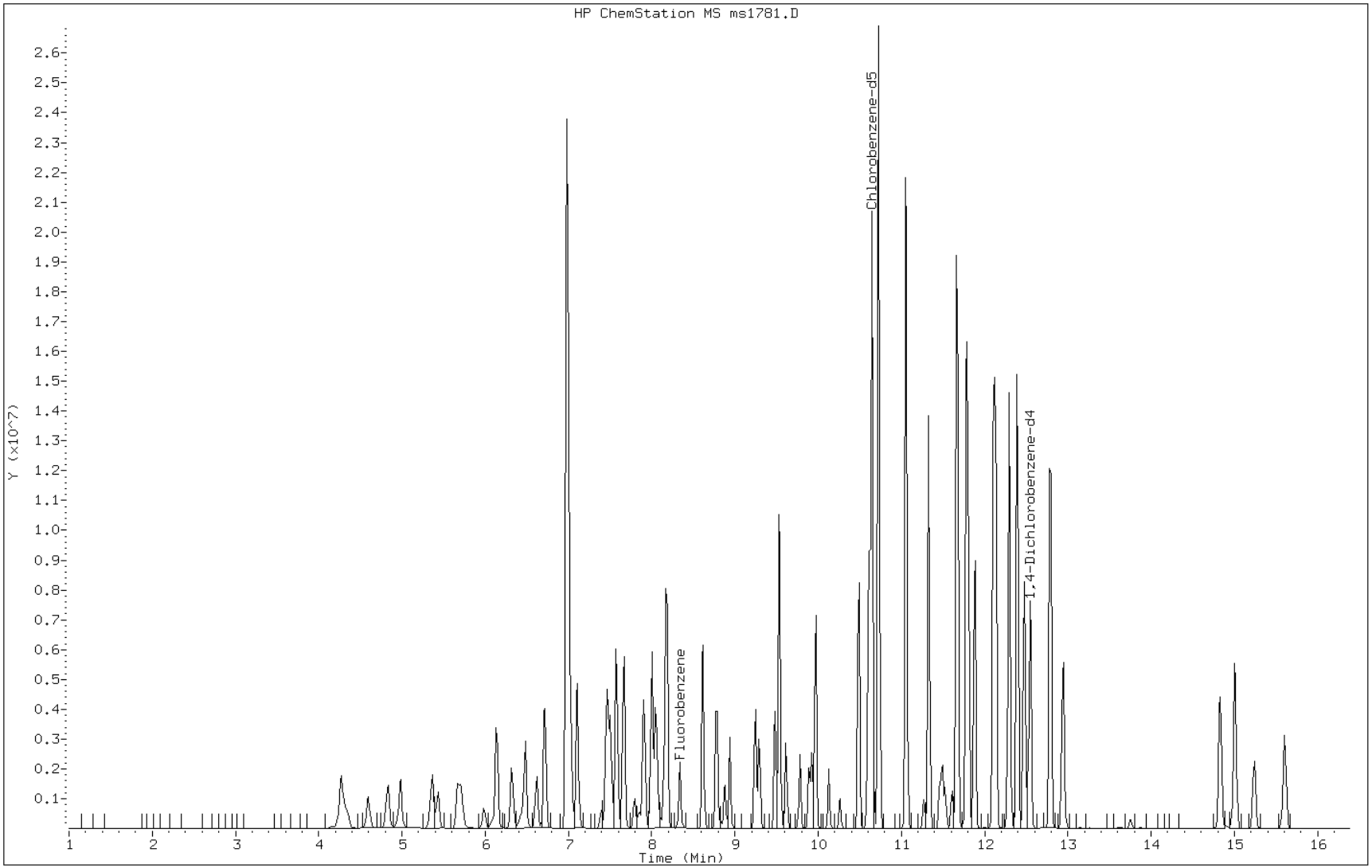
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: ms1781.D

Date: 01-NOV-2011 18:59

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 30.0 Operator: STOLTZK



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1782.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 19:19
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,,M 60.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:26 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:21 Cal File: ms1800.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	69 Fluorobenzene	96	8.340	8.340	(1.000)	1674459	12.5000	
*	95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	373687	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	492955	12.5000	
M	1 1,2-Dichloroethene (total)	96				9349239	120.000	120.315
M	2 Xylene (total)	106				26008955	180.000	170.459
M	3 Trihalomethane (total)	100				14600984	240.000	250.758
M	4 1,3-Dichloropropene (total)	100				8178186	120.000	123.565
	5 dichlorodifluoromethane	85	4.597	4.597	(0.551)	3770794	60.0000	55.1687
	7 Chloromethane	50	4.834	4.834	(0.580)	5602897	60.0000	52.4125(M)
	8 Vinyl Chloride	62	4.988	4.988	(0.598)	5734758	60.0000	52.0074
	10 Bromomethane	94	5.365	5.365	(0.643)	4512187	60.0000	64.2946(A)
	11 Chloroethane	64	5.435	5.435	(0.652)	3496366	60.0000	58.1942
	14 Trichlorofluoromethane	101	5.714	5.714	(0.685)	6636105	60.0000	56.6598
	13 Ethanol	45	5.686	5.686	(0.682)	502195	3000.00	2776.82
	19 Acrolein	56	5.993	5.993	(0.719)	1823528	600.000	587.822
	20 Acetone	43	6.091	6.091	(0.730)	1100389	240.000	215.787
	23 1,1-Dichloroethene	96	6.147	6.147	(0.737)	3610795	60.0000	58.2125
	27 Iodomethane	142	6.328	6.328	(0.759)	5810660	60.0000	59.6901
	26 Acetonitrile	41	6.314	6.314	(0.757)	1003262	600.000	536.252
	30 tert-Butyl alcohol	59	6.426	6.426	(0.771)	1945450	1200.00	1240.75(A)
	33 Methylene Chloride	84	6.482	6.482	(0.777)	3519702	60.0000	55.7885
	34 Acrylonitrile	53	6.622	6.622	(0.794)	3684379	600.000	593.334

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
36 trans-1,2-Dichloroethene	96	6.719	6.719	(0.806)	4551424	60.0000	59.5531
43 Isopropyl ether	87	6.985	6.985	(0.838)	17610001	300.000	324.431(AQ)
44 1,1-Dichloroethane	63	7.027	7.027	(0.843)	7674019	60.0000	60.7402(A)
46 Chloroprene	53	7.111	7.111	(0.853)	7072810	60.0000	60.8950(A)
50 2-Butanone	43	7.390	7.390	(0.886)	1690896	240.000	233.286
52 cis-1,2-Dichloroethene	96	7.460	7.460	(0.895)	4797815	60.0000	60.7620(A)
51 Propionitrile	54	7.446	7.446	(0.893)	1459720	600.000	610.847(A)
53 2,2-Dichloropropane	77	7.502	7.502	(0.900)	6149787	60.0000	61.5764(A)
54 Methacrylonitrile	41	7.571	7.571	(0.908)	6730578	600.000	608.252(A)
55 Bromochloromethane	128	7.669	7.669	(0.920)	1640845	60.0000	63.7916(A)
56 Chloroform	83	7.669	7.669	(0.920)	7205295	60.0000	61.0825(A)
60 1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	7000668	60.0000	60.4238(A)
59 Isobutanol	41	7.851	7.851	(0.941)	654224	1200.00	1197.11
62 1,1-Dichloropropene	75	8.004	8.004	(0.960)	6399740	60.0000	59.0130
63 Carbon Tetrachloride	117	8.046	8.046	(0.965)	5910724	60.0000	62.1664(A)
65 1,2-Dichloroethane	62	8.144	8.144	(0.977)	3257311	60.0000	58.2260
67 Benzene	78	8.186	8.186	(0.982)	16364052	60.0000	55.9721
68 n-Butanol	56	8.340	8.340	(1.000)	1013237	1800.00	1699.25(A)
71 Trichloroethene	130	8.619	8.619	(1.033)	5094952	60.0000	61.4543(A)
74 1,2-Dichloropropane	63	8.786	8.786	(1.054)	3557910	60.0000	60.0538(A)
76 1,4-Dioxane	88	8.828	8.828	(1.059)	552641	3000.00	2839.96
77 Dibromomethane	93	8.884	8.884	(1.065)	1398086	60.0000	61.1215(A)
78 Bromodichloromethane	83	8.940	8.940	(1.072)	4072362	60.0000	63.1245(A)
81 cis-1,3-Dichloropropene	75	9.247	9.247	(0.873)	4759958	60.0000	58.3337
82 4-Methyl-2-pentanone	43	9.289	9.289	(0.877)	3730832	240.000	225.709
84 Toluene	91	9.541	9.541	(1.144)	16936591	60.0000	54.3836
86 trans-1,3-Dichloropropene	75	9.610	9.610	(1.152)	3418228	60.0000	65.2312(A)
87 1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	1683737	60.0000	58.8102
88 2-Hexanone	43	9.890	9.890	(1.186)	2479104	240.000	242.259(A)
89 1,3-Dichloropropane	76	9.918	9.918	(0.937)	3155043	60.0000	53.5883
90 Tetrachloroethene	164	9.974	9.974	(0.942)	4039886	60.0000	57.3540
91 Dibromochloromethane	129	10.127	10.127	(0.956)	2261132	60.0000	61.5570(A)
93 1,2-Dibromoethane	107	10.267	10.267	(0.970)	1575199	60.0000	55.7269
94 1-Chlorohexane	91	10.490	10.490	(0.991)	6484970	60.0000	55.7938
96 Chlorobenzene	112	10.616	10.616	(1.003)	11115896	60.0000	55.1479
97 1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	4201714	60.0000	68.1862(A)
98 Ethylbenzene	106	10.644	10.644	(1.005)	8213131	60.0000	62.7599(AQ)
99 m and p-Xylene	106	10.728	10.728	(1.013)	16592723	120.000	106.865(A)
101 o-Xylene	106	11.063	11.063	(1.045)	9416232	60.0000	63.5942(A)
100 Styrene	104	11.049	11.049	(1.044)	13330896	60.0000	64.1588(A)
102 Bromoform	173	11.272	11.272	(1.065)	1062195	60.0000	64.9935(A)
103 isopropyl benzene	105	11.328	11.328	(0.904)	16562713	60.0000	48.3050
105 Cyclohexanone	55	11.454	11.454	(1.082)	1381555	2400.00	2258.76
107 1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.920)	1554236	60.0000	56.1259
109 1,2,3-Trichloropropane	110	11.608	11.608	(0.926)	480149	60.0000	57.4886
111 Bromobenzene	156	11.677	11.677	(0.932)	4770788	60.0000	65.5071(A)
110 n-Propylbenzene	120	11.664	11.664	(0.931)	7296145	60.0000	64.5469(AQ)
113 2-Chlorotoluene	126	11.803	11.803	(0.942)	5574673	60.0000	63.1367(A)
112 1,3,5-Trimethylbenzene	105	11.775	11.775	(0.940)	16973338	60.0000	56.5504
114 4-Chlorotoluene	126	11.887	11.887	(0.949)	5242569	60.0000	60.0450(A)
115 tert-Butylbenzene	119	12.110	12.110	(0.967)	18594734	60.0000	59.8418
116 1,2,4-Trimethylbenzene	105	12.124	12.124	(0.968)	17571993	60.0000	59.0012
118 sec-Butylbenzene	134	12.292	12.292	(0.981)	5686904	60.0000	62.5284(AQ)
119 4-Isopropyltoluene	119	12.390	12.390	(0.989)	17411566	60.0000	52.1215

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
120 1,3-Dichlorobenzene	146	12.474	12.474	(0.996)	8681720	60.0000	57.7129
122 1,4-dichlorobenzene	146	12.543	12.543	(1.001)	8800644	60.0000	58.5756
124 n-Butylbenzene	91	12.781	12.781	(1.020)	17269048	60.0000	53.5221
126 1,2-Dichlorobenzene	146	12.948	12.948	(1.033)	6763893	60.0000	58.1363
127 1,2-Dibromo-3-chloropropane	157	13.758	13.758	(1.098)	255926	60.0000	68.3726(A)
129 1,2,4-Trichlorobenzene	180	14.834	14.834	(1.184)	4490836	60.0000	57.2220
130 Hexachlorobutadiene	225	15.001	15.001	(1.197)	3408707	60.0000	56.1249
131 Naphthalene	128	15.239	15.239	(1.216)	5436364	60.0000	58.8493
132 1,2,3-Trichlorobenzene	180	15.602	15.602	(1.245)	3325805	60.0000	56.2947

QC Flag Legend

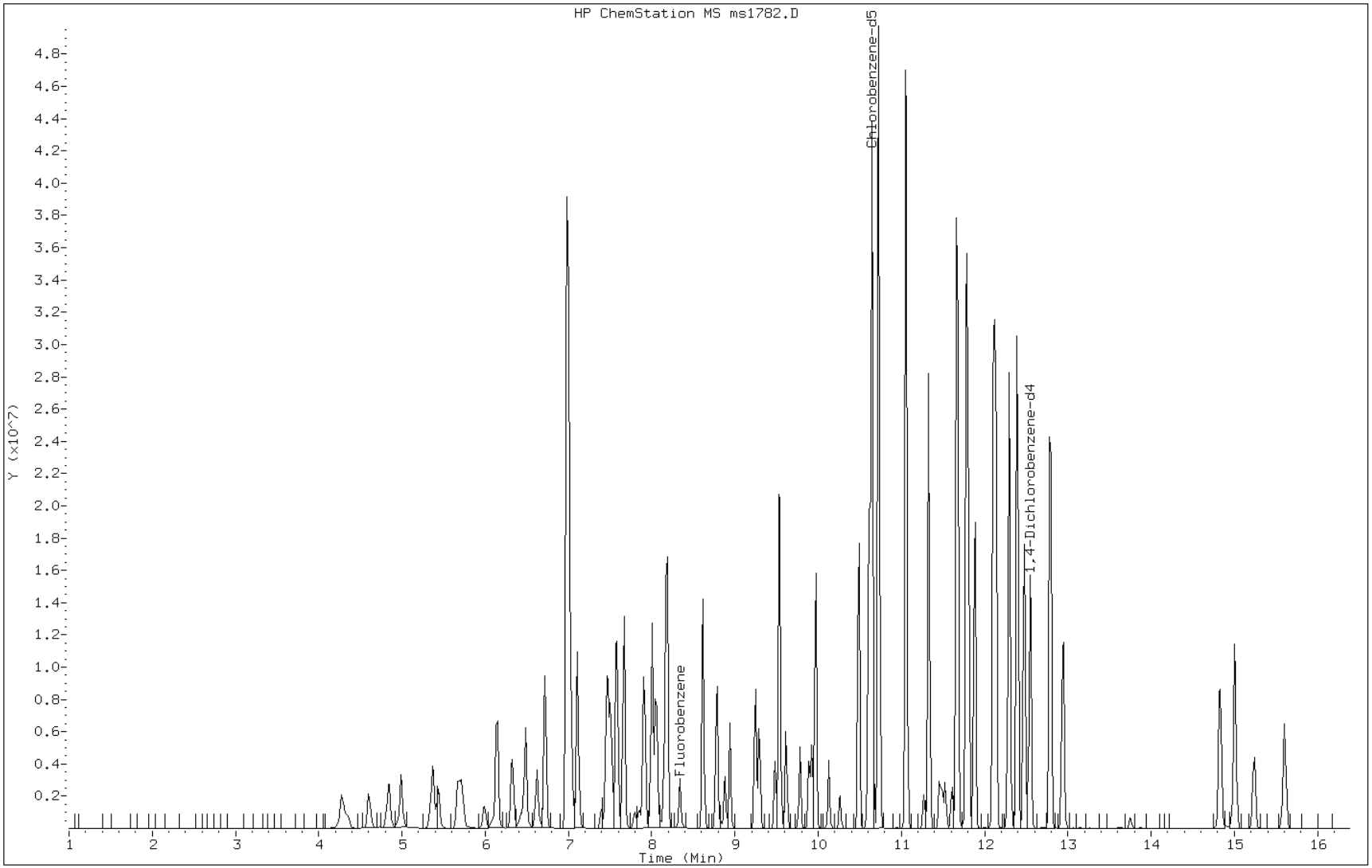
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: ms1782.D

Date: 01-NOV-2011 19:19

Client ID: Instrument: GCMS1.i

Sample Info: IC,,M 60.0 Operator: STOLTZK



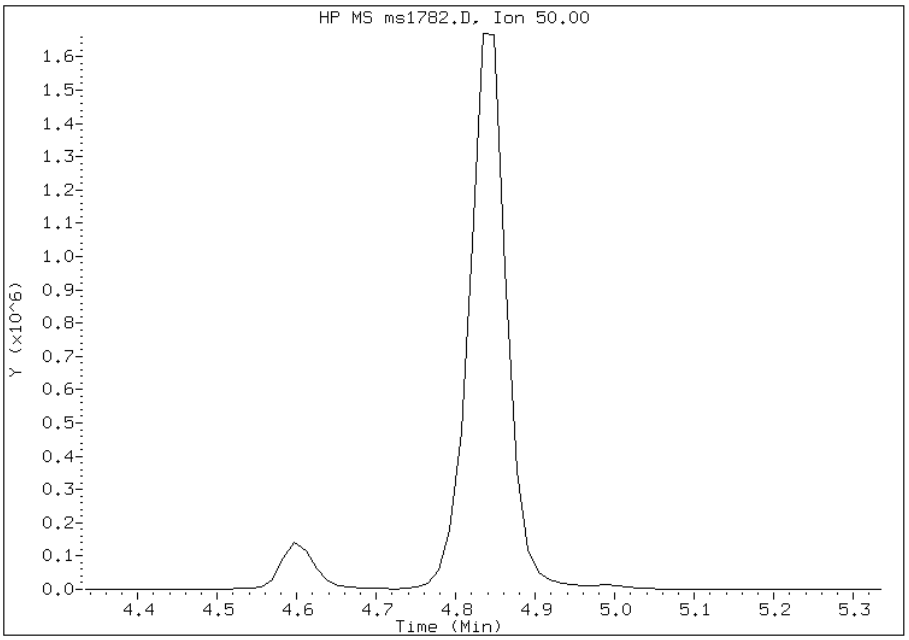
Manual Integration Report

Data File: ms1782.D
Inj. Date and Time: 01-NOV-2011 19:19
Instrument ID: GCMS1.i
Client ID:
Compound: 7 Chloromethane
CAS #: 74-87-3
Report Date: 11/02/2011

Processing Integration Results

Not Detected

Expected RT: 4.83



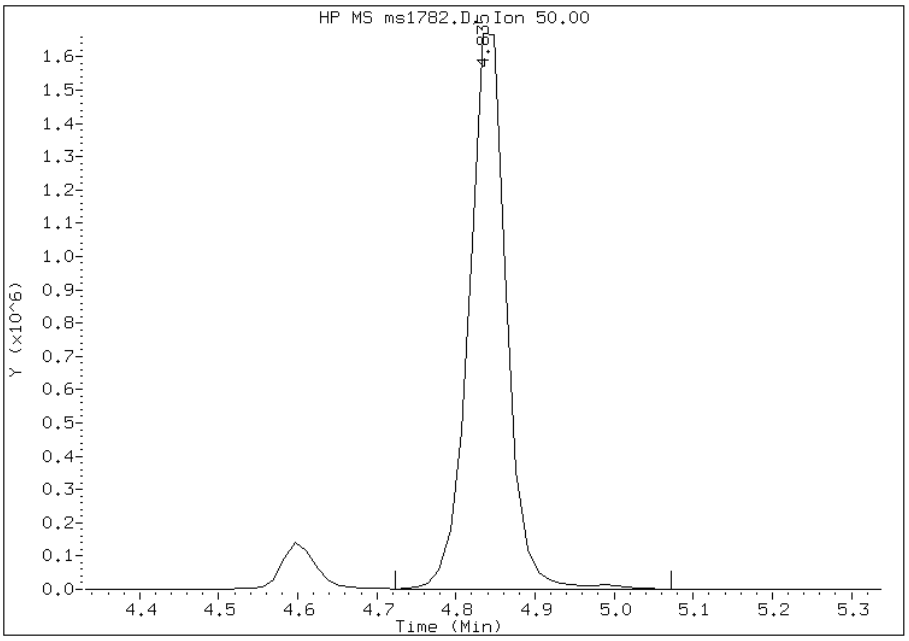
Manual Integration Results

RT: 4.83

Response: 5602897

Amount: 52

Conc: 52



Manually Integrated By: seifertj
Manual Integration Reason: Analyte not Identified by the Data System

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 21:00 Calibration End Date: 11/01/2011 23:40 Calibration ID: 7689

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-94480/25	ms1795.D
Level 2	IC 280-94480/12	ms1787.D
Level 3	IC 280-94480/13	ms1788.D
Level 4	IC 280-94480/14	ms1789.D
Level 5	ICIS 280-94480/15	ms1790.D
Level 6	IC 280-94480/16	ms1791.D
Level 7	IC 280-94480/17	ms1792.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloro-1,1,2,2-tetrafluoroethane	+++++ 0.2802	0.2291 0.2542	0.2096	0.2770	0.2539	Ave		0.2506				10.9		15.0			
Ethylene oxide	+++++ 0.0096	0.0077 0.0077	0.0070	0.0083	0.0084	Ave		0.0081				11.0		15.0			
Dichlorofluoromethane	+++++ 1.1714	1.1307 1.0713	0.9991	1.1085	1.0612	Ave		1.0904				5.5		15.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.6616	0.6497 0.6277	0.5547	0.6095	0.5773	Ave		0.6134				6.8		15.0			
2,2-Dichloro-1,1,1-trifluoroethane	+++++ 0.9214	0.8857 0.8849	0.7838	0.8427	0.8041	Ave		0.8537				6.2		15.0			
Ethyl ether	+++++ 0.2766	0.2570 0.2646	0.2239	0.2519	0.2500	Ave		0.2540				7.0		15.0			
Propene oxide	+++++ 0.0354	0.0287 0.0342	0.0256	0.0310	0.0309	Ave		0.0310				11.6					
2-Propanol	+++++ 0.0095	0.0080 0.0086	0.0078	0.0084	0.0084	Ave		0.0084				6.9		15.0			
1,1,2-Trichlorotrifluoroethane	+++++ 0.4945	0.4501 0.4719	0.4179	0.4584	0.4216	Ave		0.4524				6.5		15.0			
Methyl acetate	+++++ 0.1028	0.0997 0.0959	0.0868	0.1012	0.0965	Ave		0.0971				5.9		15.0			
Allyl chloride	+++++ 0.8224	0.6973 0.7422	0.6578	0.7380	0.7313	Ave		0.7315				7.5		15.0			
Carbon disulfide	+++++ 2.4435	2.2157 2.2199	1.9351	2.2310	2.1412	Ave		2.1977				7.5		15.0			
Methyl tert-butyl ether	+++++ 0.7829	0.7050 0.7247	0.6097	0.7283	0.7088	Ave		0.7099				8.0		15.0			
Hexane	+++++ 4.9934	4.7975 4.8771	4.1502	4.6035	4.3139	Ave		4.6226				7.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 21:00 Calibration End Date: 11/01/2011 23:40 Calibration ID: 7689

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Vinyl acetate	+++++ 0.4053	0.3373 0.3824	0.2934	0.3606	0.3680	Ave		0.3578				10.9		15.0			
Tert-butyl ethyl ether	+++++ 1.1622	1.0777 +++++	0.9599	1.0981	1.0880	Ave		1.0772				6.8		15.0			
2-Chloroethyl vinyl ether	+++++ 0.5131	+++++ +++++	0.2789	0.3430	0.4073	Lin1	0.0989	0.5194							0.9928		0.9900
Cyclohexane	+++++ 1.1145	0.9979 1.0636	0.9127	0.9942	0.9361	Ave		1.0032				7.6		15.0			
Tert-amyl methyl ether	+++++ 0.9404	0.8390 +++++	0.7466	0.8683	0.8665	Ave		0.8522				8.2		15.0			
Tetrahydrothiophene	+++++ 0.6189	+++++ 0.5946	0.3955	0.5118	0.5243	Lin1	0.0625	0.6101							0.9987		0.9900
Ethyl acetate	+++++ 0.1690	0.1718 0.1564	0.1458	0.1671	0.1630	Ave		0.1622				5.9		15.0			
2-Pentanone	+++++ 0.0993	0.0839 0.0930	0.0743	0.0905	0.0911	Ave		0.0887				9.7		15.0			
Methyl methacrylate	+++++ 0.0541	0.0407 0.0528	0.0366	0.0462	0.0489	Ave		0.0465				14.8		15.0			
Methylcyclohexane	+++++ 0.9023	0.8051 0.8842	0.7365	0.7917	0.7423	Ave		0.8104				8.6		15.0			
Tetrahydrofuran	+++++ 0.0389	0.0352 0.0363	0.0336	0.0381	0.0361	Ave		0.0364				5.4		15.0			
2-Nitropropane	+++++ 0.1916	0.1626 0.1975	0.1260	0.1615	0.1623	Lin1	0.0373	0.1949							0.9964		0.9900
cis-1,4-Dichloro-2-butene	+++++ 0.1846	+++++ 0.1787	0.1375	0.1677	0.1574	Ave		0.1652				11.3		15.0			
Ethyl methacrylate	+++++ 1.5220	1.0182 1.5230	0.9686	1.2565	1.3303	Lin1	0.0871	1.5259							0.9983		0.9900
trans-1,4-Dichloro-2-butene	+++++ 0.1593	+++++ 0.1510	0.1102	0.1355	0.1446	Ave		0.1401				13.5		15.0			
1,2,3-Trimethylbenzene	+++++ 7.8483	6.6912 7.1326	6.3548	6.6009	7.0319	Ave		6.9433				7.6		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3863	+++++ 0.3579	0.4195	0.4035	0.3852	Ave		0.3905				5.9		15.0			
Dibromofluoromethane (Surr)	+++++ 0.4982	+++++ 0.4589	0.5366	0.5045	0.4901	Ave		0.4977				5.6		15.0			
Toluene-d8 (Surr)	+++++ 11.499	+++++ 10.716	12.110	11.192	11.230	Ave		11.350				4.5		15.0			
4-Bromofluorobenzene (Surr)	+++++ 2.2773	+++++ 2.0925	2.4571	2.2491	2.2940	Ave		2.2740				5.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 21:00 Calibration End Date: 11/01/2011 23:40 Calibration ID: 7689

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-94480/25	ms1795.D
Level 2	IC 280-94480/12	ms1787.D
Level 3	IC 280-94480/13	ms1788.D
Level 4	IC 280-94480/14	ms1789.D
Level 5	ICIS 280-94480/15	ms1790.D
Level 6	IC 280-94480/16	ms1791.D
Level 7	IC 280-94480/17	ms1792.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	FB	Ave	+++++ 916289	24602 1839432	50041	152643	285360	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Ethylene oxide	FB	Ave	+++++ 3920768	103932 6934493	207600	574837	1179521	+++++ 3750	125 7500	250	625	1250
Dichlorofluoromethane	FB	Ave	+++++ 3830940	121436 7753801	238576	610930	1192807	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 2163604	69780 4542796	132456	335929	648886	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
2,2-Dichloro-1,1,1-trifluoroethane	FB	Ave	+++++ 3013301	95118 6404239	187153	464407	903820	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Ethyl ether	FB	Ave	+++++ 904500	27605 1915024	53459	138825	280972	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Propene oxide	FB	Ave	+++++ 5794369	154067 12374974	305201	853431	1734660	+++++ 1500	50.0 3000	100	250	500
2-Propanol	FB	Ave	+++++ 619532	17106 1239133	37283	92916	188746	+++++ 600	20.0 1200	40.0	100	200
1,1,2-Trichlorotrifluoroethane	FB	Ave	+++++ 1617228	48338 3415574	99779	252648	473876	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methyl acetate	FB	Ave	+++++ 1680179	53525 3470142	103601	278753	542182	+++++ 150	5.00 300	10.0	25.0	50.0
Allyl chloride	FB	Ave	+++++ 2689608	74894 5371944	157082	406707	821978	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Carbon disulfide	FB	Ave	+++++ 7990871	237959 16066225	462055	1229525	2406798	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Methyl tert-butyl ether	FB	Ave	+++++ 2560206	75719 5245279	145581	401369	796772	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Hexane	CBZ	Ave	+++++ 3170858	98680 6765130	190511	498092	937355	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl acetate	FB	Ave	+++++ 2650915	72461 5535668	140119	397500	827258	+++++ 60.0	2.00 120	4.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-23016-1 Analy Batch No.: 94480

SDG No.:

Instrument ID: MSV_MS1 GC Column: DB-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/01/2011 21:00 Calibration End Date: 11/01/2011 23:40 Calibration ID: 7689

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tert-butyl ethyl ether	FB	Ave	+++++ 19003383	578739 +++++	1145996	3025913	6114699	+++++ 150	5.00 +++++	10.0	25.0	50.0
2-Chloroethyl vinyl ether	CBZ	Lin1	+++++ 325795	+++++ +++++	12804	37115	88498	+++++ 30.0	+++++ +++++	2.00	5.00	10.0
Cyclohexane	FB	Ave	+++++ 3644662	107170 7697748	217934	547915	1052219	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Tert-amyl methyl ether	FB	Ave	+++++ 15376895	450546 +++++	891423	2392641	4869963	+++++ 150	5.00 +++++	10.0	25.0	50.0
Tetrahydrothiophene	CBZ	Lin1	+++++ 392982	+++++ 824729	18155	55375	113916	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
Ethyl acetate	FB	Ave	+++++ 1105566	36900 2263424	69642	184149	366376	+++++ 60.0	2.00 120	4.00	10.0	20.0
2-Pentanone	FB	Ave	+++++ 1298998	36028 2691908	70945	199604	409391	+++++ 120	4.00 240	8.00	20.0	40.0
Methyl methacrylate	FB	Ave	+++++ 354011	8734 764690	17462	50911	109853	+++++ 60.0	2.00 120	4.00	10.0	20.0
Methylcyclohexane	FB	Ave	+++++ 2950723	86470 6399279	175852	436337	834451	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 254702	7562 525106	16025	42015	81168	+++++ 60.0	2.00 120	4.00	10.0	20.0
2-Nitropropane	CBZ	Lin1	+++++ 121684	3344 274001	5785	17473	35271	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,4-Dichloro-2-butene	DCB	Ave	+++++ 169364	+++++ 361979	8773	25127	47820	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
Ethyl methacrylate	CBZ	Lin1	+++++ 1932941	41887 4225144	88921	271915	578125	+++++ 60.0	2.00 120	4.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 146163	+++++ 305911	7029	20306	43941	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0
1,2,3-Trimethylbenzene	DCB	Ave	+++++ 7200389	193940 14448997	405325	989144	2136592	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 842273	+++++ 1295048	100159	222355	432957	+++++ 20.0	+++++ 30.0	2.00	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	+++++ 1086133	+++++ 1660721	128130	278058	550936	+++++ 20.0	+++++ 30.0	2.00	5.00	10.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 4868067	+++++ 7432387	555878	1210988	2440170	+++++ 20.0	+++++ 30.0	2.00	5.00	10.0
4-Bromofluorobenzene (Surr)	DCB	Ave	+++++ 1392892	+++++ 2119456	156722	337018	697019	+++++ 20.0	+++++ 30.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1787.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 21:00
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,, S 1.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:26 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41 Cal File: ms1801.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 69 Fluorobenzene	96	8.340	8.340	(1.000)	1342483	12.5000	
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	257113	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.515	12.515	(1.000)	362304	12.5000	(Q)
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	92232	1.00000	1.72559
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	67843	1.00000	1.61782
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	381395	1.00000	1.63374
$ 106 4-Bromofluorobenzene (Surr)	95	11.482	11.482	(0.917)	106063	1.00000	1.60920
6 1,2-Dichlorotetrafluoroethane	85	4.750	4.750	(0.570)	24602	1.00000	0.913961
9 Ethylene Oxide	43	5.295	5.295	(0.635)	103932	125.000	119.245(a)
12 Dichlorofluoromethane	67	5.574	5.574	(0.668)	121436	1.00000	1.03697(a)
15 1,2-dichloro-1,1,2-trifluoroe	117	5.812	5.812	(0.697)	69780	1.00000	1.05919
17 Ethyl Ether	59	5.854	5.854	(0.702)	27605	1.00000	1.01197(a)
16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.854	(0.702)	95118	1.00000	1.03738
18 Propylene Oxide	58	5.951	5.951	(0.714)	154067	50.0000	46.3444
21 Trichlorotrifluoroethane	151	6.105	6.105	(0.732)	48338	1.00000	0.994870(a)
22 2-propanol	45	6.105	6.105	(0.732)	17106	20.0000	18.8756(aQ)
28 Methyl Acetate	43	6.328	6.328	(0.759)	53525	5.00000	5.13150
29 Allyl Chloride	41	6.398	6.398	(0.767)	74894	1.00000	0.953287(a)
31 Carbon Disulfide	76	6.426	6.426	(0.771)	237959	1.00000	1.00817
35 Methyl t-butyl ether	73	6.664	6.664	(0.799)	75719	1.00000	0.993127(a)
40 Hexane	57	6.887	6.887	(0.650)	98680	1.00000	1.03784
42 Vinyl acetate	43	6.957	6.957	(0.834)	72461	2.00000	1.88541(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
48 ETBE	59	7.264	7.264	(0.871)	578739	5.00000	5.00263
49 Ethyl Acetate	43	7.390	7.390	(0.886)	36900	2.00000	2.11856(a)
146 2-Butanol	45	7.432	7.432	(0.891)	30488	30.0000	25.9091
57 Tetrahydrofuran	42	7.697	7.697	(0.923)	7562	2.00000	1.93610(a)
61 Cyclohexane	56	7.990	7.990	(0.958)	107170	1.00000	0.994734(a)
66 TAME	73	8.158	8.158	(0.978)	450546	5.00000	4.92282
72 2-Pentanone	43	8.633	8.633	(1.035)	36028	4.00000	3.78318(a)
75 Methyl Cyclohexane	55	8.800	8.800	(1.055)	86470	1.00000	0.993550(a)
73 Methyl Methacrylate	100	8.717	8.717	(1.045)	8734	2.00000	1.74742
79 2-nitropropane	41	9.052	9.052	(0.855)	3344	1.00000	1.30006(aQ)
80 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
85 Ethyl methacrylate	69	9.597	9.597	(0.906)	41887	2.00000	2.42324(Q)
92 Tetrahydrothiophene	60	Compound Not Detected.					
104 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
108 t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
123 1,2,3-Trimethylbenzene	105	12.543	12.543	(1.002)	193940	1.00000	0.963693(a)

QC Flag Legend

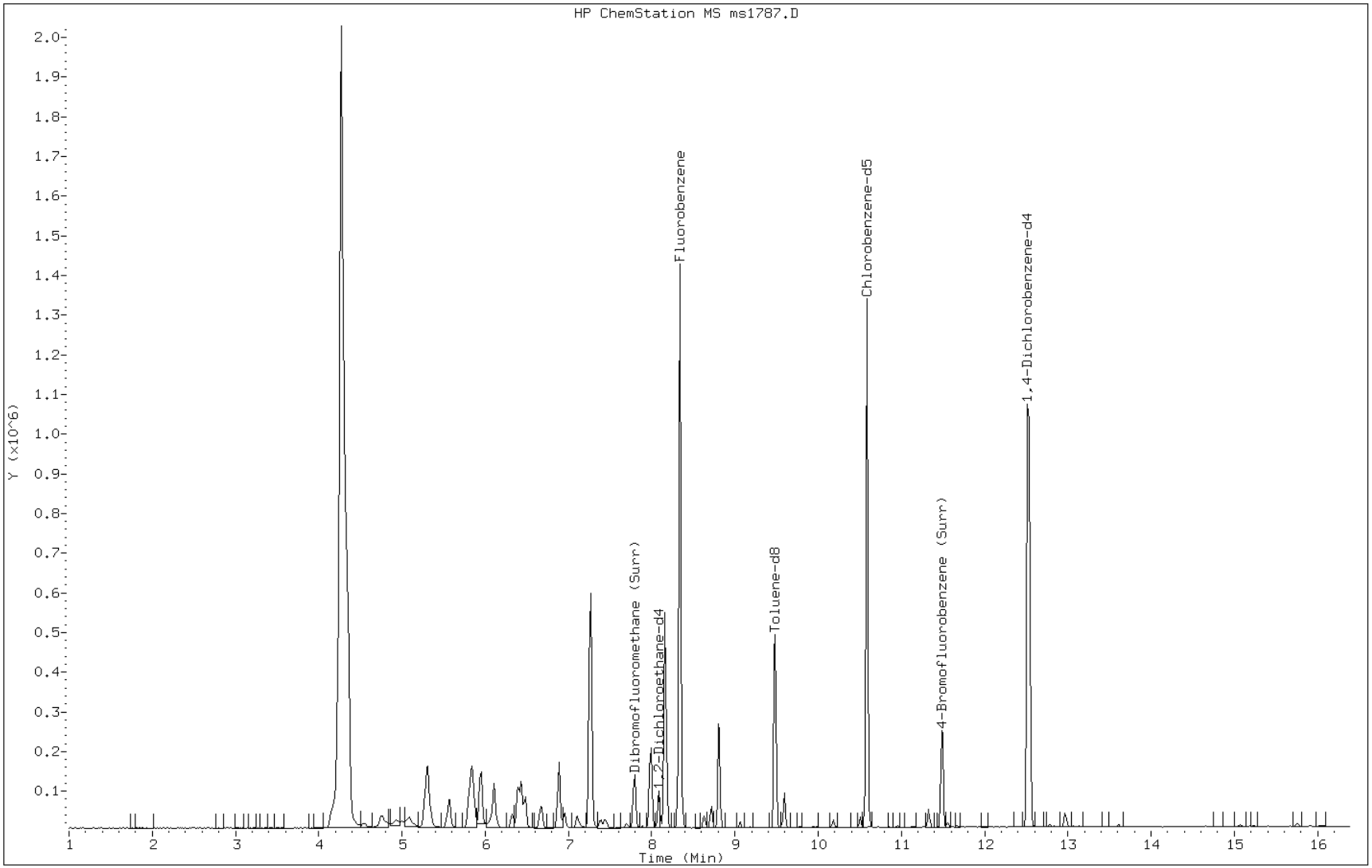
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms1787.D

Date: 01-NOV-2011 21:00

Client ID: Instrument: GCMS1.i

Sample Info: IC,, S 1.0 Operator: STOLTZK



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1788.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 21:20
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,, S 2.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:27 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:00 Cal File: ms1796.D
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 69 Fluorobenzene	96	8.340	8.340	(1.000)	1492381	12.5000	
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	286897	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.530	12.530	(1.000)	398642	12.5000	
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	128130	2.00000	2.15643
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	100159	2.00000	2.14854
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	555878	2.00000	2.13396
$ 106 4-Bromofluorobenzene (Surr)	95	11.482	11.482	(0.916)	156722	2.00000	2.16105
6 1,2-Dichlorotetrafluoroethane	85	4.764	4.764	(0.571)	50041	2.00000	1.67229
9 Ethylene Oxide	43	5.309	5.309	(0.637)	207600	250.000	214.263
12 Dichlorofluoromethane	67	5.575	5.575	(0.668)	238576	2.00000	1.83264(a)
15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.826	(0.699)	132456	2.00000	1.80860
17 Ethyl Ether	59	5.854	5.854	(0.702)	53459	2.00000	1.76291(a)
16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.854	(0.702)	187153	2.00000	1.83611
18 Propylene Oxide	58	5.952	5.952	(0.714)	305201	100.000	82.5853
21 Trichlorotrifluoroethane	151	6.119	6.119	(0.734)	99779	2.00000	1.84734
22 2-propanol	45	6.105	6.105	(0.732)	37283	40.0000	37.0078
28 Methyl Acetate	43	6.329	6.329	(0.759)	103601	10.0000	8.93472
29 Allyl Chloride	41	6.399	6.399	(0.767)	157082	2.00000	1.79859(a)
31 Carbon Disulfide	76	6.440	6.440	(0.772)	462055	2.00000	1.76098
35 Methyl t-butyl ether	73	6.678	6.678	(0.801)	145581	2.00000	1.71765(a)
40 Hexane	57	6.887	6.887	(0.650)	190511	2.00000	1.79563
42 Vinyl acetate	43	6.957	6.957	(0.834)	140119	4.00000	3.27965

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
48 ETBE	59	7.264	7.264	(0.871)	1145996	10.0000	8.91103
49 Ethyl Acetate	43	7.390	7.390	(0.886)	69642	4.00000	3.59678(a)
146 2-Butanol	45	7.446	7.446	(0.893)	65903	60.0000	50.3799
57 Tetrahydrofuran	42	7.697	7.697	(0.923)	16025	4.00000	3.69079(a)
61 Cyclohexane	56	7.991	7.991	(0.958)	217934	2.00000	1.81965(a)
66 TAME	73	8.158	8.158	(0.978)	891423	10.0000	8.76170
72 2-Pentanone	43	8.633	8.633	(1.035)	70945	8.00000	6.70144
75 Methyl Cyclohexane	55	8.801	8.801	(1.055)	175852	2.00000	1.81761
73 Methyl Methacrylate	100	8.717	8.717	(1.045)	17462	4.00000	3.14273
79 2-nitropropane	41	9.066	9.066	(0.856)	5785	2.00000	1.75904(a)
80 2-Chloroethyl vinyl ether	63	9.066	9.066	(0.856)	12804	2.00000	2.31072
85 Ethyl methacrylate	69	9.597	9.597	(0.906)	88921	4.00000	3.62771(Q)
92 Tetrahydrothiophene	60	10.183	10.183	(0.962)	18155	2.00000	2.07837
104 cis-1,4-dichloro-2-butene	53	11.343	11.343	(0.905)	8773	2.00000	1.66539
108 t-1,4-Dichloro-2-butene	53	11.552	11.552	(0.922)	7029	2.00000	1.57284
123 1,2,3-Trimethylbenzene	105	12.544	12.544	(1.001)	405325	2.00000	1.83048

QC Flag Legend

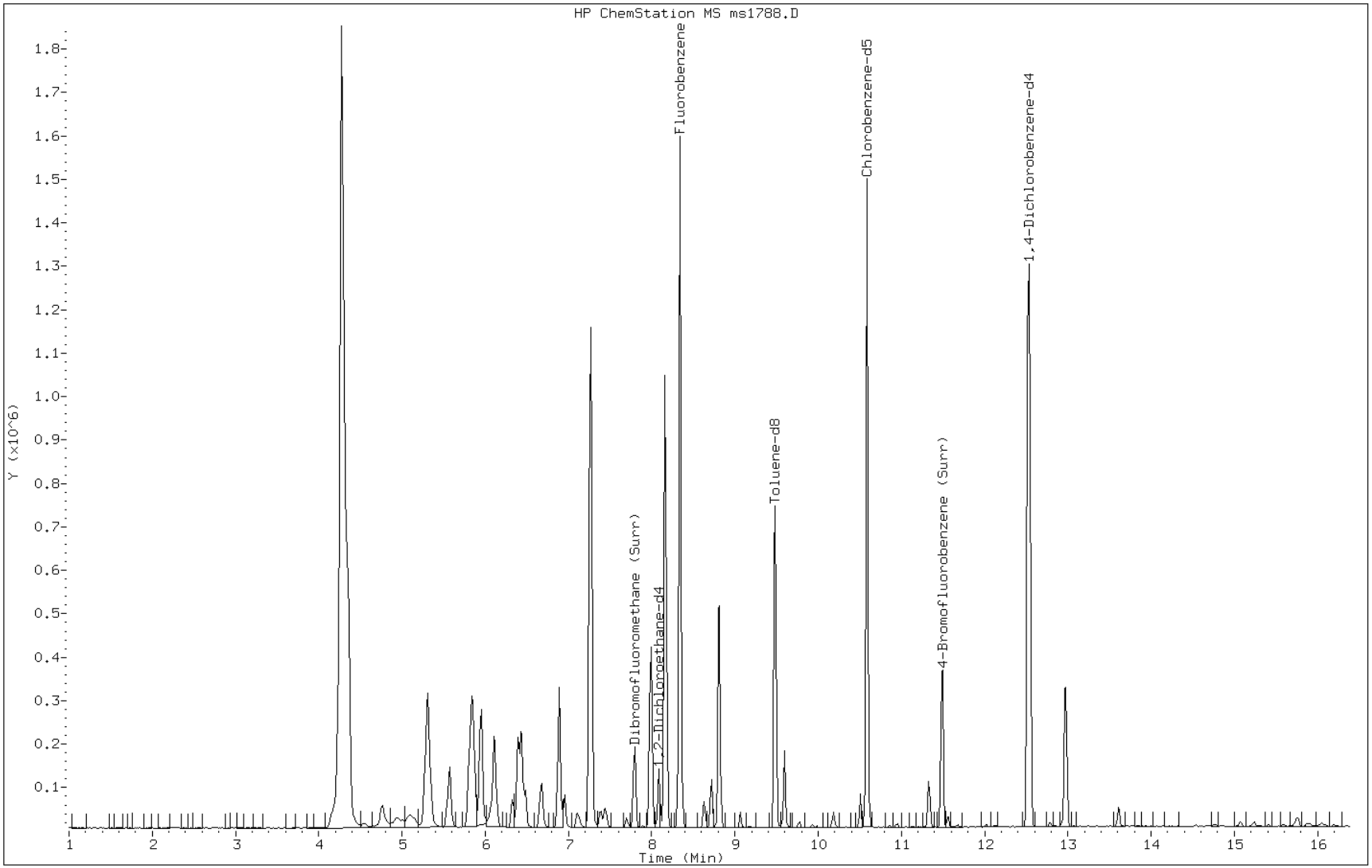
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms1788.D

Date: 01-NOV-2011 21:20

Client ID: Instrument: GCMS1.i

Sample Info: IC,, S 2.0 Operator: STOLTZK



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1789.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 21:40
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,, S 5.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:27 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:21 Cal File: ms1797.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						AMOUNTS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
* 69 Fluorobenzene	96	8.340	8.340	(1.000)	1377793	12.5000	
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	270499	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	374622	12.5000	
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	278058	5.00000	5.06892
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	222355	5.00000	5.16650
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	1210988	5.00000	4.93068
$ 106 4-Bromofluorobenzene (Surr)	95	11.496	11.496	(0.918)	337018	5.00000	4.94513
6 1,2-Dichlorotetrafluoroethane	85	4.764	4.764	(0.571)	152643	5.00000	5.52534
9 Ethylene Oxide	43	5.309	5.309	(0.637)	574837	625.000	642.628
12 Dichlorofluoromethane	67	5.574	5.574	(0.668)	610930	5.00000	5.08320
15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.826	(0.699)	335929	5.00000	4.96837
17 Ethyl Ether	59	5.854	5.854	(0.702)	138825	5.00000	4.95875
16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.854	(0.702)	464407	5.00000	4.93511
18 Propylene Oxide	58	5.951	5.951	(0.714)	853431	250.000	250.139
21 Trichlorotrifluoroethane	151	6.119	6.119	(0.734)	252648	5.00000	5.06662
22 2-propanol	45	6.105	6.105	(0.732)	92916	100.000	99.9008
28 Methyl Acetate	43	6.328	6.328	(0.759)	278753	25.0000	26.0395
29 Allyl Chloride	41	6.398	6.398	(0.767)	406707	5.00000	5.04409
31 Carbon Disulfide	76	6.440	6.440	(0.772)	1229525	5.00000	5.07569
35 Methyl t-butyl ether	73	6.678	6.678	(0.801)	401369	5.00000	5.12942
40 Hexane	57	6.887	6.887	(0.650)	498092	5.00000	4.97929
42 Vinyl acetate	43	6.957	6.957	(0.834)	397500	10.0000	10.0777

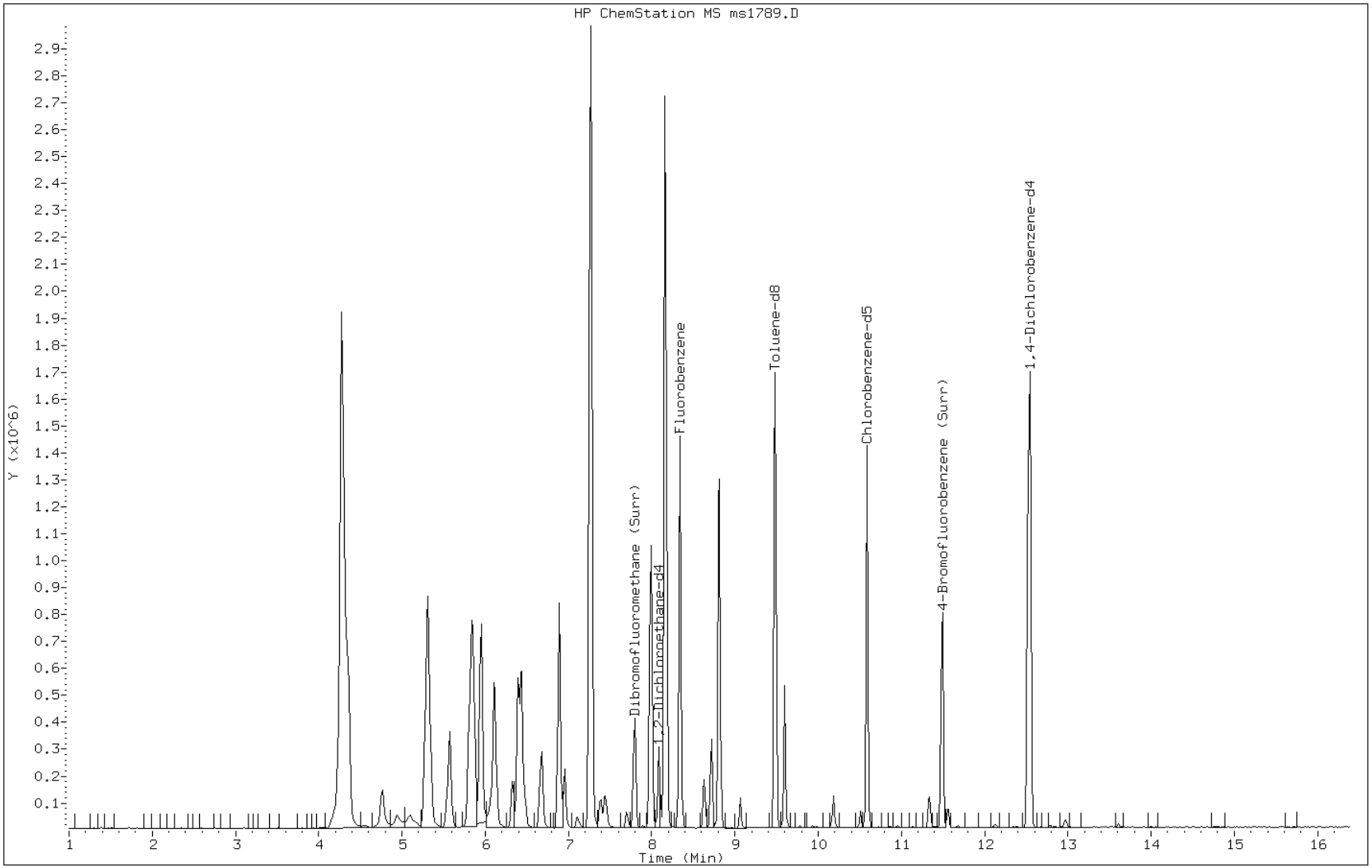
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
48 ETBE	59	7.264	7.264	(0.871)	3025913	25.0000	25.4857
49 Ethyl Acetate	43	7.390	7.390	(0.886)	184149	10.0000	10.3017
146 2-Butanol	45	7.446	7.446	(0.893)	180687	150.000	149.615
57 Tetrahydrofuran	42	7.697	7.697	(0.923)	42015	10.0000	10.4814
61 Cyclohexane	56	7.990	7.990	(0.958)	547915	5.00000	4.95532
66 TAME	73	8.158	8.158	(0.978)	2392641	25.0000	25.4728
72 2-Pentanone	43	8.633	8.633	(1.035)	199604	20.0000	20.4226
75 Methyl Cyclohexane	55	8.814	8.814	(1.057)	436337	5.00000	4.88507
73 Methyl Methacrylate	100	8.717	8.717	(1.045)	50911	10.0000	9.92478
79 2-nitropropane	41	9.066	9.066	(0.856)	17473	5.00000	4.60800
80 2-Chloroethyl vinyl ether	63	9.066	9.066	(0.856)	37115	5.00000	4.53885
85 Ethyl methacrylate	69	9.597	9.597	(0.906)	271915	10.0000	9.32365
92 Tetrahydrothiophene	60	10.183	10.183	(0.962)	55375	5.00000	4.97622
104 cis-1,4-dichloro-2-butene	53	11.342	11.342	(0.905)	25127	5.00000	5.07573
108 t-1,4-Dichloro-2-butene	53	11.552	11.552	(0.922)	20306	5.00000	4.83511
123 1,2,3-Trimethylbenzene	105	12.543	12.543	(1.001)	989144	5.00000	4.75347

Data File: ms1789.D

Date: 01-NOV-2011 21:40

Client ID: Instrument: GCMS1.i

Sample Info: IC,, S 5.0 Operator: STOLTZK



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1790.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 22:00
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,, S 10.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:27 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 00:41 Cal File: ms1798.D
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 69 Fluorobenzene	96	8.340	8.340	(1.000)	1405084	12.5000	
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	271610	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	379803	12.5000	
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	550936	10.0000	9.84835
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	432957	10.0000	9.86453
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	2440170	10.0000	9.89481
$ 106 4-Bromofluorobenzene (Surr)	95	11.496	11.496	(0.918)	697019	10.0000	10.0880
6 1,2-Dichlorotetrafluoroethane	85	4.764	4.764	(0.571)	285360	10.0000	10.1288
9 Ethylene Oxide	43	5.309	5.309	(0.637)	1179521	1250.00	1293.01
12 Dichlorofluoromethane	67	5.574	5.574	(0.668)	1192807	10.0000	9.73190
15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.826	(0.699)	648886	10.0000	9.41059
17 Ethyl Ether	59	5.854	5.854	(0.702)	280972	10.0000	9.84123
16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.854	(0.702)	903820	10.0000	9.41807
18 Propylene Oxide	58	5.951	5.951	(0.714)	1734660	500.000	498.550
21 Trichlorotrifluoroethane	151	6.119	6.119	(0.734)	473876	10.0000	9.31856
22 2-propanol	45	6.105	6.105	(0.732)	188746	200.000	198.993
28 Methyl Acetate	43	6.328	6.328	(0.759)	542182	50.0000	49.6637
29 Allyl Chloride	41	6.398	6.398	(0.767)	821978	10.0000	9.99639
31 Carbon Disulfide	76	6.440	6.440	(0.772)	2406798	10.0000	9.74269
35 Methyl t-butyl ether	73	6.678	6.678	(0.801)	796772	10.0000	9.98483
40 Hexane	57	6.887	6.887	(0.650)	937355	10.0000	9.33215
42 Vinyl acetate	43	6.957	6.957	(0.834)	827258	20.0000	20.5659

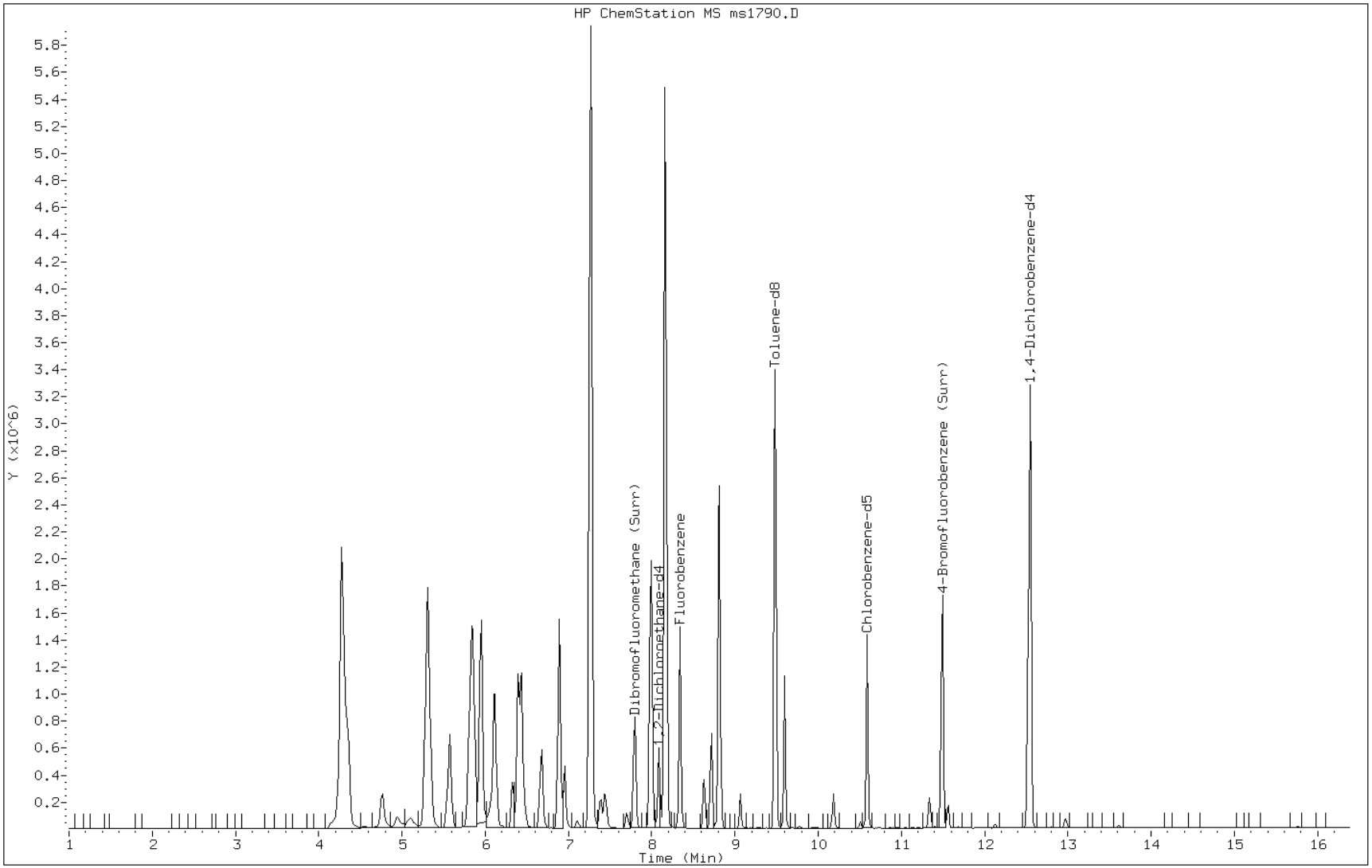
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
48 ETBE	59	7.264	7.264	(0.871)	6114699	50.0000	50.5007
49 Ethyl Acetate	43	7.390	7.390	(0.886)	366376	20.0000	20.0977
146 2-Butanol	45	7.432	7.432	(0.891)	376510	300.000	305.708
57 Tetrahydrofuran	42	7.697	7.697	(0.923)	81168	20.0000	19.8556
61 Cyclohexane	56	7.990	7.990	(0.958)	1052219	10.0000	9.33139
66 TAME	73	8.158	8.158	(0.978)	4869963	50.0000	50.8402
72 2-Pentanone	43	8.633	8.633	(1.035)	409391	40.0000	41.0735
75 Methyl Cyclohexane	55	8.814	8.814	(1.057)	834451	10.0000	9.16076
73 Methyl Methacrylate	100	8.717	8.717	(1.045)	109853	20.0000	20.9992
79 2-nitropropane	41	9.066	9.066	(0.856)	35271	10.0000	8.79274
80 2-Chloroethyl vinyl ether	63	9.066	9.066	(0.856)	88498	10.0000	9.07832
85 Ethyl methacrylate	69	9.597	9.597	(0.906)	578125	20.0000	18.5257
92 Tetrahydrothiophene	60	10.183	10.183	(0.962)	113916	10.0000	9.37516
104 cis-1,4-dichloro-2-butene	53	11.342	11.342	(0.905)	47820	10.0000	9.52800
108 t-1,4-Dichloro-2-butene	53	11.552	11.552	(0.922)	43941	10.0000	10.3202
123 1,2,3-Trimethylbenzene	105	12.543	12.543	(1.001)	2136592	10.0000	10.1276

Data File: ms1790.D

Date: 01-NOV-2011 22:00

Client ID: Instrument: GCMS1.i

Sample Info: IC,, S 10.0 Operator: STOLTZK



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1791.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 22:20
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,, S 30.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:27 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:01 Cal File: ms1799.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
* 69 Fluorobenzene	96	8.339	8.339	(1.000)	1362608	12.5000		
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	264588	12.5000		
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	382268	12.5000		(Q)
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	1086133	20.0000	20.0206	
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	842273	20.0000	19.7886	
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	4868067	20.0000	20.2637	
$ 106 4-Bromofluorobenzene (Surr)	95	11.496	11.496	(0.918)	1392892	20.0000	20.0294	
6 1,2-Dichlorotetrafluoroethane	85	4.764	4.764	(0.571)	916289	30.0000	33.5373	
9 Ethylene Oxide	43	5.309	5.309	(0.637)	3920768	3750.00	4431.99	
12 Dichlorofluoromethane	67	5.574	5.574	(0.668)	3830940	30.0000	32.2303	
15 1,2-dichloro-1,1,2-trifluoroe	117	5.825	5.825	(0.699)	2163604	30.0000	32.3562	
17 Ethyl Ether	59	5.853	5.853	(0.702)	904500	30.0000	32.6683	
16 2,2-dichloro-1,1,1-trifluoroe	83	5.853	5.853	(0.702)	3013301	30.0000	32.3783	
18 Propylene Oxide	58	5.951	5.951	(0.714)	5794369	1500.00	1717.24	
21 Trichlorotrifluoroethane	151	6.119	6.119	(0.734)	1617228	30.0000	32.7934	
22 2-propanol	45	6.105	6.105	(0.732)	619532	600.000	673.527	
28 Methyl Acetate	43	6.328	6.328	(0.759)	1680179	150.000	158.702	
29 Allyl Chloride	41	6.398	6.398	(0.767)	2689608	30.0000	33.7290	
31 Carbon Disulfide	76	6.440	6.440	(0.772)	7990871	30.0000	33.3553	
35 Methyl t-butyl ether	73	6.677	6.677	(0.801)	2560206	30.0000	33.0836	
40 Hexane	57	6.887	6.887	(0.650)	3170858	30.0000	32.4063	
42 Vinyl acetate	43	6.957	6.957	(0.834)	2650915	60.0000	67.9571	

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
48 ETBE	59	7.264	7.264	(0.871)	19003383	150.000	161.839
49 Ethyl Acetate	43	7.376	7.376	(0.884)	1105566	60.0000	62.5369
146 2-Butanol	45	7.432	7.432	(0.891)	1267208	900.000	1060.98
57 Tetrahydrofuran	42	7.697	7.697	(0.923)	254702	60.0000	64.2484
61 Cyclohexane	56	7.990	7.990	(0.958)	3644662	30.0000	33.3295
66 TAME	73	8.158	8.158	(0.978)	15376895	150.000	165.532
72 2-Pentanone	43	8.633	8.633	(1.035)	1298998	120.000	134.389
75 Methyl Cyclohexane	55	8.814	8.814	(1.057)	2950723	30.0000	33.4034
73 Methyl Methacrylate	100	8.716	8.716	(1.045)	354011	60.0000	69.7813
79 2-nitropropane	41	9.066	9.066	(0.856)	121684	30.0000	29.9551
80 2-Chloroethyl vinyl ether	63	9.066	9.066	(0.856)	325795	30.0000	30.8710
85 Ethyl methacrylate	69	9.596	9.596	(0.906)	1932941	60.0000	60.9360
92 Tetrahydrothiophene	60	10.183	10.183	(0.962)	392982	30.0000	31.2135
104 cis-1,4-dichloro-2-butene	53	11.342	11.342	(0.905)	169364	30.0000	33.5277
108 t-1,4-Dichloro-2-butene	53	11.566	11.566	(0.923)	146163	30.0000	34.1071
123 1,2,3-Trimethylbenzene	105	12.543	12.543	(1.001)	7200389	30.0000	33.9104

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: ms1791.D

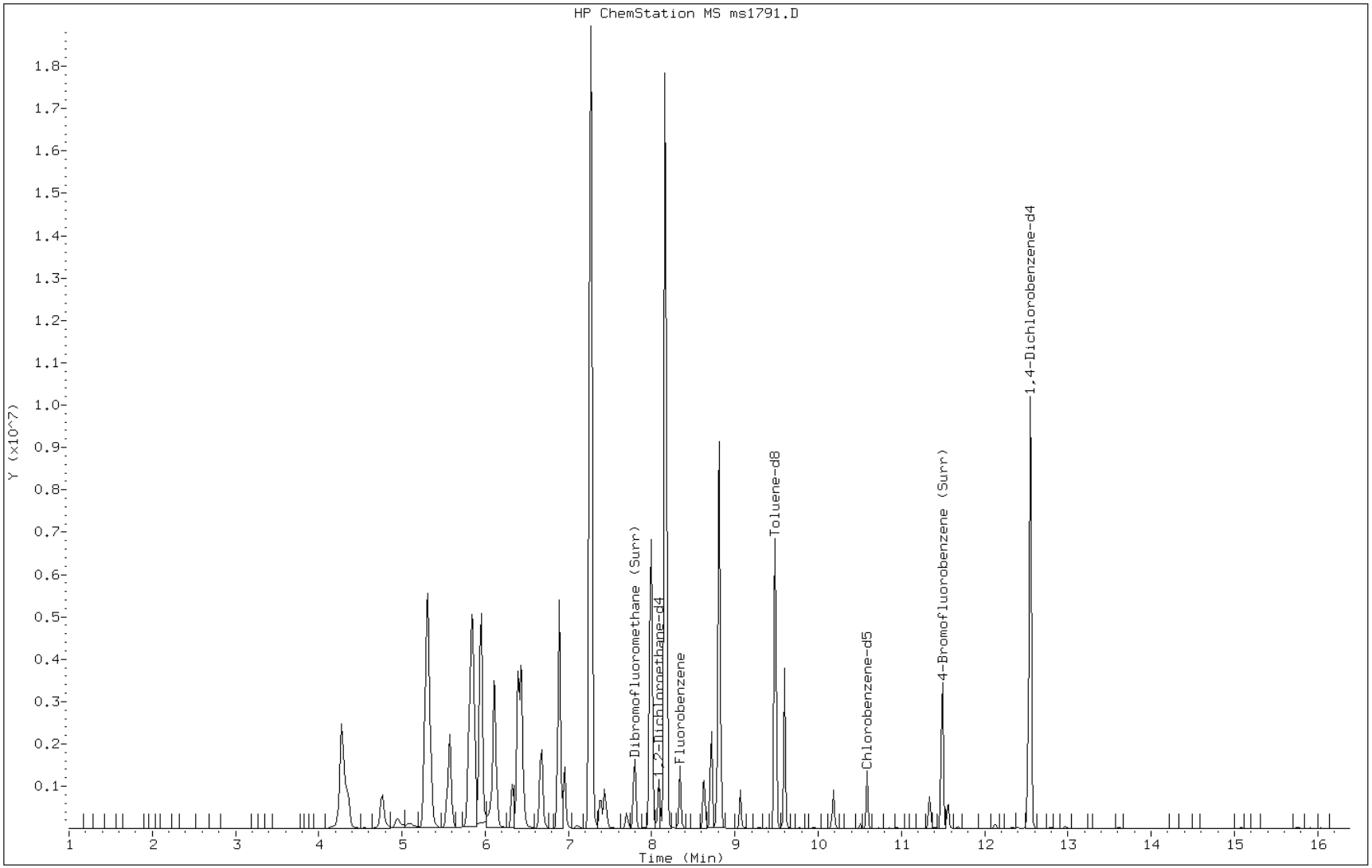
Date: 01-NOV-2011 22:20

Client ID:

Instrument: GCMS1.i

Sample Info: IC,, S 30.0

Operator: STOLTZK



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1792.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 22:40
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,, S 60.0
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:27 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:21 Cal File: ms1800.D
Als bottle: 2 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 69 Fluorobenzene	96	8.339	8.339	(1.000)	1507805	12.5000	
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	288981	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	422035	12.5000	(Q)
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	1660721	30.0000	27.6641
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	1295048	30.0000	27.4963
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	7432387	30.0000	28.3264
$ 106 4-Bromofluorobenzene (Surr)	95	11.482	11.482	(0.916)	2119456	30.0000	27.6054
6 1,2-Dichlorotetrafluoroethane	85	4.750	4.750	(0.570)	1839432	60.0000	60.8422(A)
9 Ethylene Oxide	43	5.295	5.295	(0.635)	6934493	7500.00	7083.84
12 Dichlorofluoromethane	67	5.574	5.574	(0.668)	7753801	60.0000	58.9521
15 1,2-dichloro-1,1,2-trifluoroe	117	5.825	5.825	(0.699)	4542796	60.0000	61.3944(A)
17 Ethyl Ether	59	5.853	5.853	(0.702)	1915024	60.0000	62.5054(A)
16 2,2-dichloro-1,1,1-trifluoroe	83	5.853	5.853	(0.702)	6404239	60.0000	62.1877(A)
18 Propylene Oxide	58	5.951	5.951	(0.714)	12374974	3000.00	3314.33(A)
21 Trichlorotrifluoroethane	151	6.105	6.105	(0.732)	3415574	60.0000	62.5900(A)
22 2-propanol	45	6.091	6.091	(0.730)	1239133	1200.00	1217.40(A)
28 Methyl Acetate	43	6.328	6.328	(0.759)	3470142	300.000	296.209
29 Allyl Chloride	41	6.384	6.384	(0.766)	5371944	60.0000	60.8796(A)
31 Carbon Disulfide	76	6.426	6.426	(0.771)	16066225	60.0000	60.6052(A)
35 Methyl t-butyl ether	73	6.677	6.677	(0.801)	5245279	60.0000	61.2537(A)
40 Hexane	57	6.887	6.887	(0.650)	6765130	60.0000	63.3039(A)
42 Vinyl acetate	43	6.957	6.957	(0.834)	5535668	120.000	128.243(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
48	ETBE	59	7.250	7.250	(0.869)	28263536	300.000	217.523
49	Ethyl Acetate	43	7.376	7.376	(0.884)	2263424	120.000	115.703
146	2-Butanol	45	7.432	7.432	(0.891)	2620095	1800.00	1982.46(A)
57	Tetrahydrofuran	42	7.697	7.697	(0.923)	525106	120.000	119.702
61	Cyclohexane	56	7.990	7.990	(0.958)	7697748	60.0000	63.6152(A)
66	TAME	73	8.158	8.158	(0.978)	23734627	300.000	230.899
72	2-Pentanone	43	8.619	8.619	(1.033)	2691908	240.000	251.676(A)
75	Methyl Cyclohexane	55	8.814	8.814	(1.057)	6399279	60.0000	65.4665(A)
73	Methyl Methacrylate	100	8.716	8.716	(1.045)	764690	120.000	136.218(A)
79	2-nitropropane	41	9.052	9.052	(0.855)	274001	60.0000	61.2628(A)
80	2-Chloroethyl vinyl ether	63	9.066	9.066	(0.856)	723365	60.0000	61.4802(A)
85	Ethyl methacrylate	69	9.596	9.596	(0.906)	4225144	120.000	120.864(A)
92	Tetrahydrothiophene	60	10.183	10.183	(0.962)	824729	60.0000	59.2562
104	cis-1,4-dichloro-2-butene	53	11.342	11.342	(0.905)	361979	60.0000	64.9061(A)
108	t-1,4-Dichloro-2-butene	53	11.552	11.552	(0.922)	305911	60.0000	64.6580(A)
123	1,2,3-Trimethylbenzene	105	12.543	12.543	(1.001)	14448997	60.0000	61.6359(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: ms1792.D

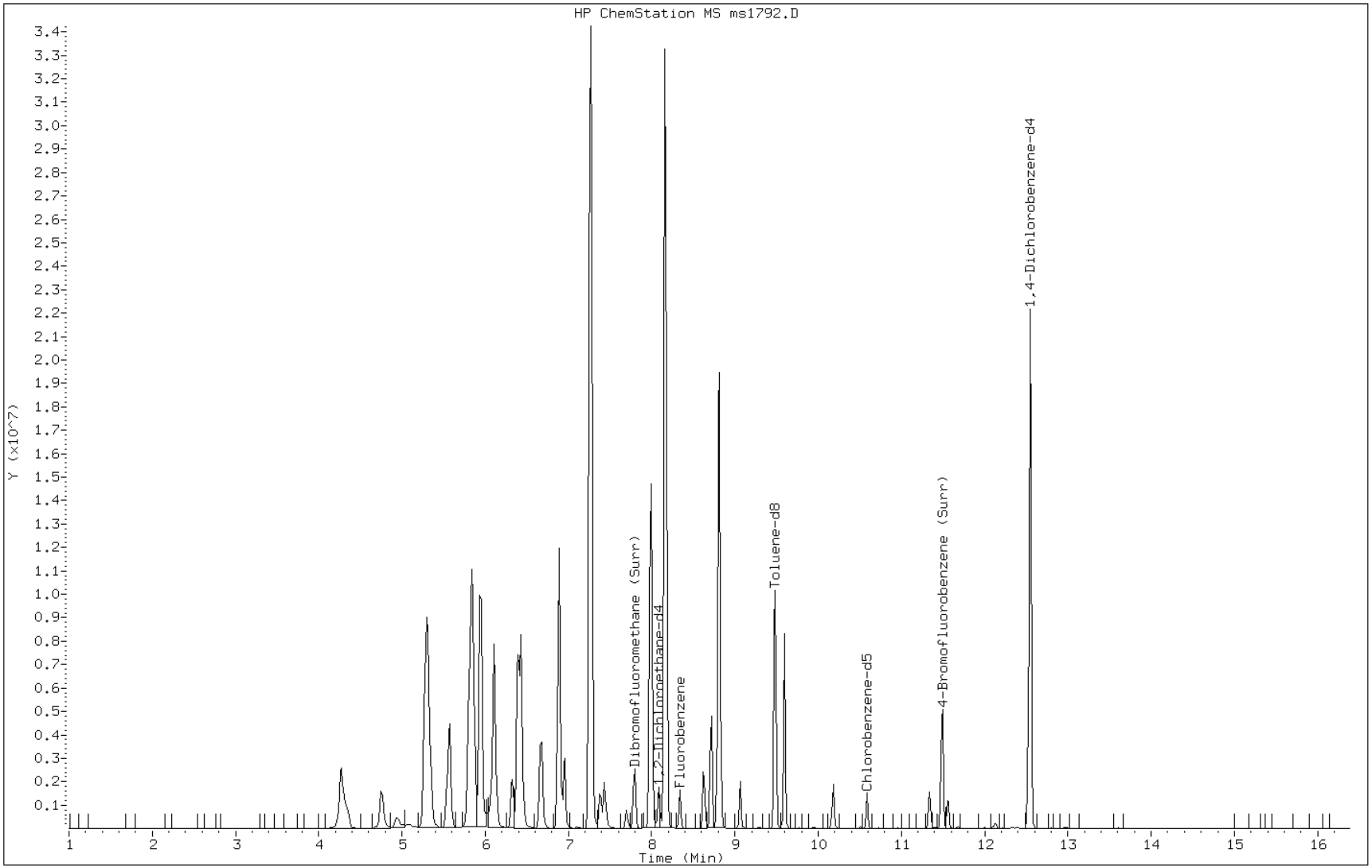
Date: 01-NOV-2011 22:40

Client ID:

Instrument: GCMS1.i

Sample Info: IC,, S 60.0

Operator: STOLTZK



TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1795.D
Lab Smp Id: IC
Inj Date : 01-NOV-2011 23:40
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : IC,, BRC 0.3
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 10-Nov-2011 10:00 rhoadesw Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41 Cal File: ms1801.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC380

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 69 Fluorobenzene	96	8.339	8.340	(1.000)	1291868	12.5000	
* 95 Chlorobenzene-d5	119	10.588	10.589	(1.000)	252574	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.530	(1.000)	342673	12.5000	
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	39850	0.30000	0.774773
$ 64 1,2-Dichloroethane-d4	65	Compound Not Detected.					
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	150995	0.30000	0.658426(a)
$ 106 4-Bromofluorobenzene (Surr)	95	11.496	11.482	(0.918)	41312	0.30000	0.662696
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
9 Ethylene Oxide	43	Compound Not Detected.					
12 Dichlorofluoromethane	67	Compound Not Detected.					
15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					
18 Propylene Oxide	58	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
28 Methyl Acetate	43	Compound Not Detected.					
29 Allyl Chloride	41	Compound Not Detected.					
31 Carbon Disulfide	76	Compound Not Detected.					
35 Methyl t-butyl ether	73	Compound Not Detected.					
40 Hexane	57	Compound Not Detected.					
42 Vinyl acetate	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
48	ETBE	59	Compound Not Detected.					
49	Ethyl Acetate	43	7.306	7.376	(0.876)	123801	0.60000	7.38633
146	2-Butanol	45	Compound Not Detected.					
57	Tetrahydrofuran	42	7.809	7.697	(0.936)	34604	0.60000	9.20680(Q)
61	Cyclohexane	56	Compound Not Detected.					
66	TAME	73	Compound Not Detected.					
72	2-Pentanone	43	Compound Not Detected.					
75	Methyl Cyclohexane	55	Compound Not Detected.					
73	Methyl Methacrylate	100	Compound Not Detected.					
79	2-nitropropane	41	Compound Not Detected.					
80	2-Chloroethyl vinyl ether	63	Compound Not Detected.					
85	Ethyl methacrylate	69	Compound Not Detected.					
92	Tetrahydrothiophene	60	Compound Not Detected.					
104	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
108	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
123	1,2,3-Trimethylbenzene	105	Compound Not Detected.					

QC Flag Legend

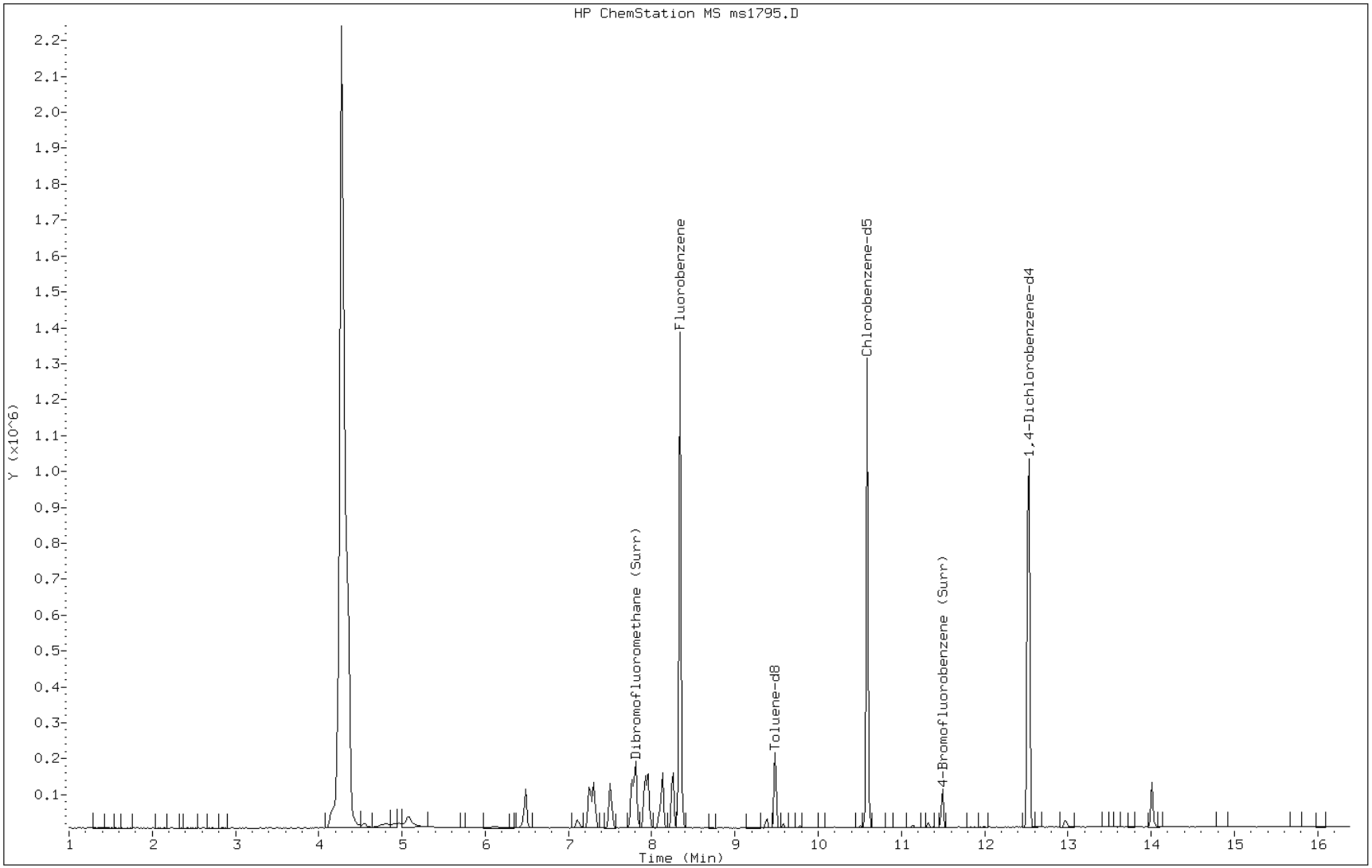
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms1795.D

Date: 01-NOV-2011 23:40

Client ID: Instrument: GCMS1.i

Sample Info: IC,, BRC 0.3 Operator: STOLTZK



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: ICV 280-94522/11 Calibration Date: 11/01/2011 21:48

Instrument ID: MSV_E Calib Start Date: 11/01/2011 18:52

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/01/2011 20:49

Lab File ID: E3684.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2559	0.2591		10.1	10.0	1.3	55.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3684.D
Lab Smp Id: ICV
Inj Date : 01-NOV-2011 21:48
Operator : TINKHAMS Inst ID: E.i
Smp Info : ICV,,MA
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 03-Nov-2011 02:32 tinkhams Quant Type: ISTD
Cal Date : 02-NOV-2011 02:11 Cal File: E3697.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVmAdi.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

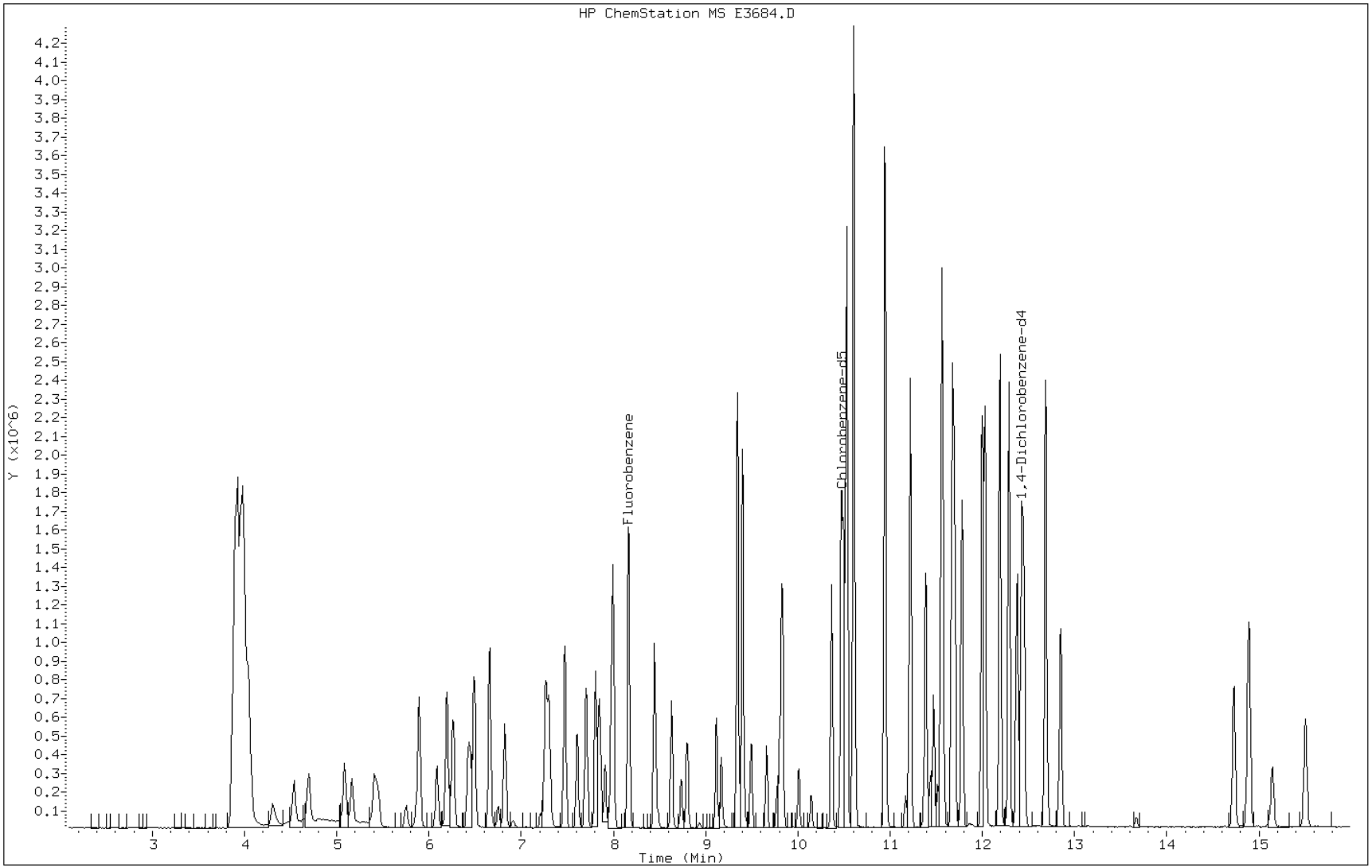
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	8.160	8.159	(1.000)	1398765	12.5000	
* 85 Chlorobenzene-d5	119	10.469	10.468	(1.000)	297623	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.428	12.428	(1.000)	456698	12.5000	
5 dichlorodifluoromethane	85	4.302	4.316	(0.527)	289928	10.1266	10.1266

Data File: E3684.D

Date: 01-NOV-2011 21:48

Client ID: Instrument: E.i

Sample Info: ICV,,MA Operator: TINKHAMS



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: ICV 280-94522/20 Calibration Date: 11/02/2011 02:30

Instrument ID: MSV_E Calib Start Date: 11/01/2011 23:44

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/02/2011 02:11

Lab File ID: E3698.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.1554	0.4318		27.8	10.0	177.9*	50.0
Dichlorofluoromethane	Ave	0.8678	0.8908		10.3	10.0	2.7	55.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.3332	0.2954		8.86	10.0	-11.4	55.0
Ethyl ether	Ave	0.1183	0.1250		10.6	10.0	5.7	35.0
1,1,2-Trichlorotrifluoroethane	Ave	0.2834	0.2765		9.76	10.0	-2.4	55.0
2-Propanol	Ave	0.0039	0.0044		229	200	14.5	55.0
Methyl acetate	Ave	0.0468	0.0518		55.3	50.0	10.6	55.0
Allyl chloride	Ave	0.3454	0.3874		11.2	10.0	12.1	35.0
Carbon disulfide	Ave	1.177	1.200		10.2	10.0	1.9	55.0
Methyl tert-butyl ether	Ave	0.3138	0.3560		11.3	10.0	13.4	35.0
Hexane	Ave	1.830	1.832		10.0	10.0	0.0	35.0
Vinyl acetate	Ave	0.1341	0.1140		17.0	20.0	-15.0	55.0
Tert-butyl ethyl ether	Ave	0.4491	0.5296		59.0	50.0	17.9	35.0
Ethyl acetate	Ave	0.0538	0.0576		21.4	20.0	7.0	55.0
Tetrahydrofuran	Lin2	0.0136	0.0164		22.0	20.0	10.2	55.0
Cyclohexane	Lin2	0.4595	0.4599		9.27	10.0	-7.3	35.0
Tert-amyl methyl ether	Ave	0.3478	0.4104		59.0	50.0	18.0	35.0
2-Pentanone	Ave	0.0331	0.0598		72.3	40.0	80.7*	55.0
Methyl methacrylate	Lin2	0.0162	0.0211		22.5	20.0	12.4	35.0
Methylcyclohexane	Ave	0.3910	0.3735		9.55	10.0	-4.5	35.0
2-Chloroethyl vinyl ether	Lin	0.0229	0.0287		11.1	10.0	10.5	55.0
2-Nitropropane	Lin1	0.0558	0.0574		11.9	10.0	18.8	55.0
Ethyl methacrylate	Lin2	0.5361	0.6628		22.7	20.0	13.5	35.0
Tetrahydrothiophene	Lin1	0.1664	0.1940		10.4	10.0	3.7	55.0
cis-1,4-Dichloro-2-butene	Ave	0.0626	0.0732		11.7	10.0	16.9	55.0
trans-1,4-Dichloro-2-butene	Ave	0.0525	0.0715		13.6	10.0	36.0	55.0
1,2,3-Trimethylbenzene	Ave	2.927	3.380		11.5	10.0	15.5	35.0
Dibromofluoromethane (Surr)	Ave	0.2083	0.2062		12.9	13.0	-1.0	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1644	0.1541		12.2	13.0	-6.3	35.0
Toluene-d8 (Surr)	Ave	4.426	4.788		14.1	13.0	8.2	35.0
4-Bromofluorobenzene (Surr)	Ave	0.8847	0.9597		14.1	13.0	8.5	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3698.D
Lab Smp Id: ICV
Inj Date : 02-NOV-2011 02:30
Operator : TINKHAMS Inst ID: E.i
Smp Info : ICV,,SA
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\8260B-H2O.m
Meth Date : 02-Nov-2011 16:21 E.i Quant Type: ISTD
Cal Date : 02-NOV-2011 02:11 Cal File: E3697.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: icvsuppA.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 59 Fluorobenzene	96	8.166	8.159	(1.000)	1467271	12.5000	
* 85 Chlorobenzene-d5	119	10.468	10.469	(1.000)	293924	12.5000	
* 110 1,4-Dichlorobenzene-d4	152	12.427	12.428	(1.000)	414239	12.5000	
$ 49 Dibromofluoromethane (Surr)	111	7.608	7.601	(0.932)	314696	12.8684	12.8684
$ 55 1,2-Dichloroethane-d4	65	7.909	7.909	(0.968)	235186	12.1845	12.1845
$ 73 Toluene-d8	98	9.346	9.346	(0.893)	1463654	14.0639	14.0639
$ 96 4-Bromofluorobenzene (Surr)	95	11.391	11.384	(0.917)	413442	14.1017	14.1017
6 1,2-Dichlorotetrafluoroethane	85	4.481	4.468	(0.549)	506793	27.7886	27.7886
12 Dichlorofluoromethane	67	5.305	5.306	(0.650)	1045657	10.2654	10.2654
15 1,2-dichloro-1,1,2-trifluoro	117	5.571	5.571	(0.682)	346718	8.86377	8.86377
16 Ethyl Ether	59	5.599	5.599	(0.686)	146763	10.5679	10.5679
20 Trichlorotrifluoroethane	151	5.864	5.850	(0.718)	324597	9.75809	9.75809
21 2-propanol	45	5.878	5.878	(0.720)	103691	228.936	228.936
23 Methyl Acetate	43	6.107	6.107	(0.748)	303945	55.2986	55.2986
26 Allyl Chloride	41	6.171	6.164	(0.756)	454674	11.2149	11.2149
27 Carbon Disulfide	76	6.192	6.186	(0.758)	1408338	10.1895	10.1895
31 Methyl t-butyl ether	73	6.450	6.443	(0.790)	417873	11.3442	11.3442
33 Hexane	57	6.657	6.650	(0.636)	430756	10.0092	10.0092
34 Vinyl acetate	43	6.750	6.743	(0.827)	267518	17.0003	17.0003
38 ETBE	59	7.058	7.051	(0.864)	3108254	58.9686	58.9686
39 Ethyl Acetate	43	7.193	7.187	(0.881)	135311	21.4090	21.4090
48 Tetrahydrofuran	42	7.508	7.501	(0.919)	38437	22.0465	22.0465

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
52 Cyclohexane	56	7.780	7.780	(0.953)	539855	9.27197	9.27197
57 TAME	73	7.973	7.973	(0.976)	2408351	58.9859	58.9859
62 2-Pentanone	43	8.481	8.481	(1.039)	280687	72.2776	72.2776
65 Methyl Cyclohexane	55	8.638	8.638	(1.058)	438413	9.55194	9.55194
63 Methyl Methacrylate	100	8.566	8.567	(1.049)	49466	22.4748	22.4748
69 2-nitropropane	41	8.952	8.953	(1.096)	67329	11.8757	11.8757(Q)
70 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	33668	11.0512	11.0512
75 Ethyl methacrylate	69	9.467	9.468	(0.904)	311710	22.6912	22.6912
82 Tetrahydrothiophene	60	10.061	10.054	(0.961)	45607	10.3684	10.3684
94 cis-1,4-dichloro-2-butene	53	11.248	11.248	(0.905)	24253	11.6932	11.6932
98 t-1,4-Dichloro-2-butene	53	11.469	11.470	(0.923)	23678	13.5992	13.5992
112 1,2,3-Trimethylbenzene	105	12.449	12.449	(1.002)	1120087	11.5476	11.5476

QC Flag Legend

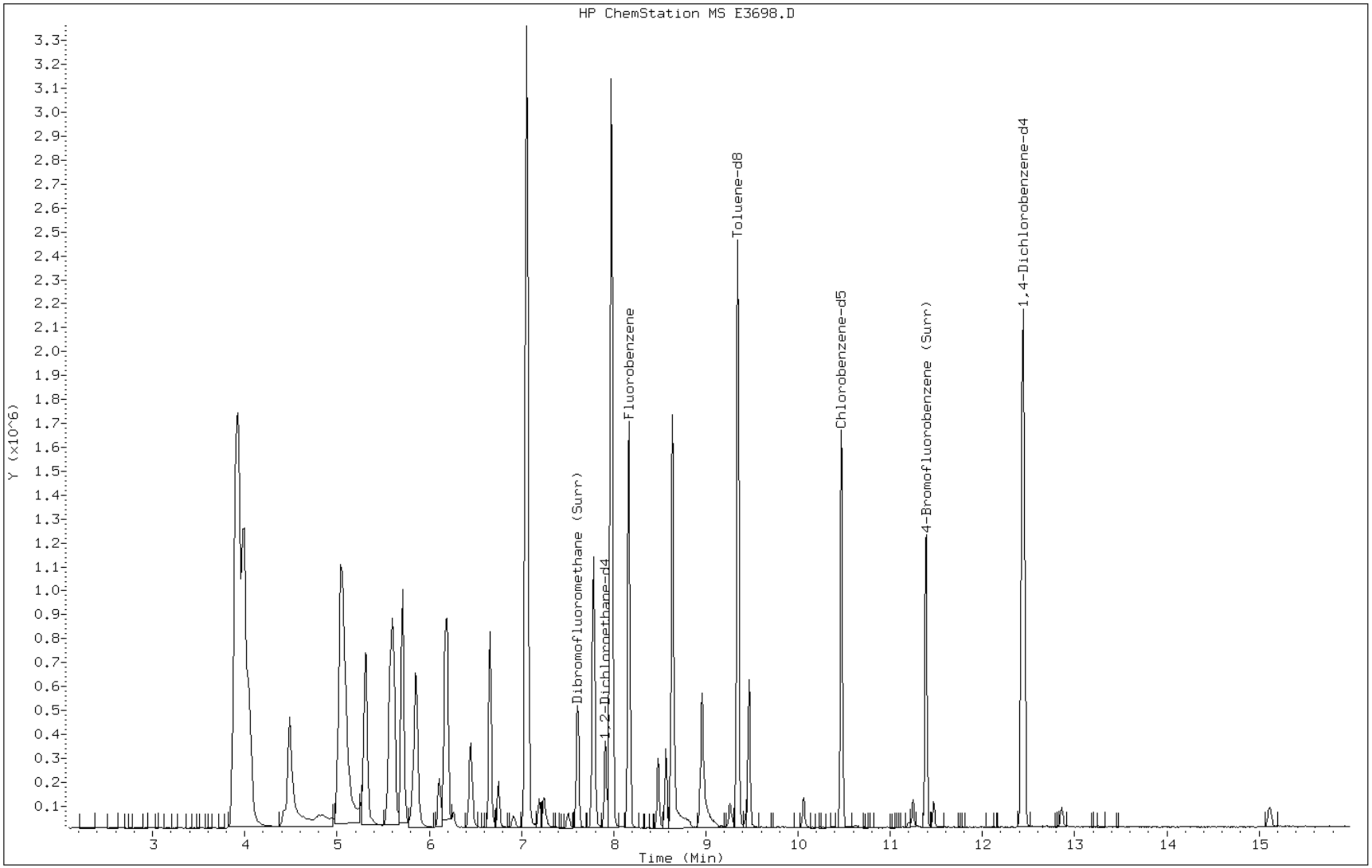
Q - Qualifier signal failed the ratio test.

Data File: E3698.D

Date: 02-NOV-2011 02:30

Client ID: Instrument: E.i

Sample Info: ICV,,SA Operator: TINKHAMS



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: ICV 280-97801/10 Calibration Date: 11/28/2011 12:52

Instrument ID: MSV_E Calib Start Date: 11/28/2011 10:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 12:14

Lab File ID: E4610.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.2964	0.3023		20.6	20.0	2.0	35.0
Xylenes, Total	Ave	2.284	2.323		30.2	30.0	1.7	35.0
Chlorotrifluoroethene	Lin1	0.0879	0.1026		10.1	10.0	1.3	35.0
Dichlorodifluoromethane	Lin1	0.2560	0.2428		8.81	10.0	-11.9	55.0
Chloromethane	Ave	0.2294	0.2144	0.1000	9.35	10.0	-6.5	35.0
Vinyl chloride	Ave	0.2363	0.2345		9.92	10.0	-0.8	35.0
2-Chloro-1,1,1-Trifluoroetha ne	Ave	0.3162	0.3338		10.6	10.0	5.6	35.0
Bromomethane	Ave	0.1811	0.1721		9.50	10.0	-5.0	35.0
Chloroethane	Ave	0.2017	0.1942		9.63	10.0	-3.7	35.0
Trichlorofluoromethane	Ave	0.3952	0.3696		9.35	10.0	-6.5	50.0
Acrolein	Ave	0.0132	0.0099		75.2	100	-24.8	55.0
Acetone	Lin2	0.0272	0.0243		41.1	40.0	2.7	55.0
1,1-Dichloroethene	Ave	0.2866	0.3414		11.9	10.0	19.1	35.0
Iodomethane	Ave	0.3480	0.3542		10.2	10.0	1.8	35.0
Methylene Chloride	Ave	0.2478	0.2545		10.3	10.0	2.7	35.0
Acrylonitrile	Ave	0.0294	0.0238		81.1	100	-18.9	55.0
trans-1,2-Dichloroethene	Ave	0.2944	0.3085		10.5	10.0	4.8	35.0
1,1-Dichloroethane	Ave	0.4806	0.5060	0.1000	10.5	10.0	5.3	35.0
2-Butanone (MEK)	Ave	0.0358	0.0339		37.9	40.0	-5.2	55.0
cis-1,2-Dichloroethene	Ave	0.2917	0.2960		10.1	10.0	1.5	35.0
2,2-Dichloropropane	Ave	0.3924	0.4030		10.3	10.0	2.7	35.0
Bromochloromethane	Ave	0.0907	0.0908		10.0	10.0	0.2	35.0
Chloroform	Ave	0.4197	0.4289		10.2	10.0	2.2	35.0
1,1,1-Trichloroethane	Ave	0.4097	0.4009		9.79	10.0	-2.1	35.0
1,1-Dichloropropene	Ave	0.4303	0.4361		10.1	10.0	1.3	35.0
Carbon tetrachloride	Ave	0.3490	0.3560		10.2	10.0	2.0	35.0
1,2-Dichloroethane	Lin1	0.2384	0.2114		10.0	10.0	0.4	35.0
Benzene	Ave	1.136	1.182		10.4	10.0	4.0	35.0
Trichloroethene	Ave	0.2895	0.3012		10.4	10.0	4.1	35.0
1,2-Dichloropropane	Ave	0.2423	0.2454		10.1	10.0	1.3	35.0
Dibromomethane	Ave	0.0807	0.0797		9.87	10.0	-1.3	35.0
Bromodichloromethane	Ave	0.2474	0.2592		10.5	10.0	4.7	35.0
cis-1,3-Dichloropropene	Ave	0.3208	0.3403		10.6	10.0	6.1	35.0
4-Methyl-2-pentanone	Ave	0.0819	0.0802		39.2	40.0	-2.1	55.0
Toluene	Ave	1.242	1.259		10.1	10.0	1.4	35.0
trans-1,3-Dichloropropene	Ave	0.2360	0.2445		10.4	10.0	3.6	35.0
1,1,2-Trichloroethane	Ave	0.1185	0.1211		10.2	10.0	2.2	35.0
2-Hexanone	Ave	0.2421	0.2448		40.4	40.0	1.1	55.0
1,3-Dichloropropane	Ave	0.9903	1.009		10.2	10.0	1.9	35.0
Tetrachloroethene	Ave	1.013	1.034		10.2	10.0	2.1	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: ICV 280-97801/10 Calibration Date: 11/28/2011 12:52

Instrument ID: MSV_E Calib Start Date: 11/28/2011 10:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 12:14

Lab File ID: E4610.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromochloromethane	Lin1	0.5545	0.6046		9.79	10.0	-2.1	35.0
1,2-Dibromoethane (EDB)	Ave	0.4685	0.4688		10.0	10.0	0.0	35.0
1-Chlorohexane	Ave	1.973	1.981		10.0	10.0	0.4	35.0
Chlorobenzene	Ave	2.991	3.103	0.3000	10.4	10.0	3.7	35.0
1,1,1,2-Tetrachloroethane	Ave	0.8742	0.8999		10.3	10.0	2.9	35.0
Ethylbenzene	Ave	1.935	1.979		10.2	10.0	2.3	35.0
m-Xylene & p-Xylene	Ave	2.360	2.384		20.2	20.0	1.0	35.0
o-Xylene	Ave	2.198	2.199		10.0	10.0	0.0	35.0
Styrene	Ave	3.266	3.424		10.5	10.0	4.8	35.0
Bromoform	Ave	0.2454	0.2658	0.1000	10.8	10.0	8.3	35.0
Isopropylbenzene	Ave	4.173	4.612		11.1	10.0	10.5	35.0
Cyclohexanone	Ave	0.0118	0.0117		248	250	-0.8	35.0
1,1,2,2-Tetrachloroethane	Ave	0.3654	0.3825	0.3000	10.5	10.0	4.7	35.0
1,2,3-Trichloropropane	Ave	0.0992	0.1062		10.7	10.0	7.1	35.0
n-Propylbenzene	Ave	1.282	1.258		9.81	10.0	-1.9	35.0
Bromobenzene	Ave	0.7494	0.7504		10.0	10.0	0.1	35.0
1,3,5-Trimethylbenzene	Ave	3.613	3.620		10.0	10.0	0.2	35.0
2-Chlorotoluene	Ave	0.9597	0.9507		9.91	10.0	-0.9	35.0
4-Chlorotoluene	Ave	0.9527	0.9578		10.1	10.0	0.5	35.0
tert-Butylbenzene	Ave	3.721	3.710		9.97	10.0	-0.3	35.0
1,2,4-Trimethylbenzene	Ave	3.546	3.487		9.83	10.0	-1.7	35.0
sec-Butylbenzene	Ave	1.024	1.021		9.97	10.0	-0.3	35.0
4-Isopropyltoluene	Ave	4.083	4.031		9.87	10.0	-1.3	35.0
1,3-Dichlorobenzene	Ave	1.620	1.629		10.1	10.0	0.6	35.0
1,4-Dichlorobenzene	Ave	1.560	1.568		10.1	10.0	0.5	35.0
n-Butylbenzene	Ave	4.070	3.998		9.82	10.0	-1.8	35.0
1,2-Dichlorobenzene	Ave	1.301	1.302		10.0	10.0	0.0	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0524	0.0508		9.71	10.0	-2.9	55.0
1,2,4-Trichlorobenzene	Ave	0.8787	0.8502		9.68	10.0	-3.2	35.0
Hexachlorobutadiene	Ave	0.6209	0.6113		9.85	10.0	-1.5	35.0
Naphthalene	Ave	1.214	1.172		9.66	10.0	-3.4	35.0
1,2,3-Trichlorobenzene	Ave	0.6827	0.6411		9.39	10.0	-6.1	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4610.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 28-NOV-2011 12:52
Operator : MEIERG Inst ID: E.i
Smp Info : ICV,,A
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 29-Nov-2011 06:28 meierg Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVmA+BO.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 61	Fluorobenzene	96	8.167	8.166	(1.000)	1661120	12.5000	
* 87	Chlorobenzene-d5	119	10.469	10.469	(1.000)	375079	12.5000	
* 112	1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	507473	12.5000	
M 1	1,2-Dichloroethene (total)	96				803408	20.6266	20.6266
M 2	Xylene (total)	106				2090694	30.2132	30.2132
M 3	1,3-Dichloropropene (total)	75				777168	20.9680	20.9680
M 4	Trihalomethanes (total)	83				1175502	41.3154	41.3154
5	Chlorotrifluoroethene	116	4.258	4.259	(0.521)	136376	10.1332	10.1332
6	dichlorodifluoromethane	85	4.327	4.329	(0.530)	322648	8.81306	8.81306
8	Chloromethane	50	4.565	4.581	(0.559)	284961	9.34596	9.34596
9	Vinyl Chloride	62	4.718	4.734	(0.578)	311677	9.92376	9.92376
10	2-Chloro-1,1,1-trifluoroethan	118	4.774	4.776	(0.585)	443600	10.5565	10.5565
12	Bromomethane	94	5.109	5.111	(0.626)	228677	9.50148	9.50148
13	Chloroethane	64	5.179	5.181	(0.634)	258027	9.62639	9.62639
15	Trichlorofluoromethane	101	5.473	5.474	(0.670)	491174	9.35137	9.35137
20	Acrolein	56	5.766	5.768	(0.706)	132108	75.2194	75.2194
22	Acetone	43	5.878	5.865	(0.720)	129068	41.0878	41.0878
24	1,1-Dichloroethene	96	5.933	5.935	(0.727)	453697	11.9136	11.9136
25	Iodomethane	142	6.108	6.115	(0.748)	470745	10.1806	10.1806
31	Methylene Chloride	84	6.279	6.279	(0.769)	338227	10.2706	10.2706
32	Acrylonitrile	53	6.429	6.429	(0.787)	316361	81.0624	81.0624
34	trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	410003	10.4790	10.4790

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
38	1,1-Dichloroethane	63	6.830	6.830	(0.836)	672481	10.5305	10.5305
42	2-Butanone	43	7.209	7.209	(0.883)	180352	37.9164	37.9164
45	cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	393405	10.1476	10.1476
46	2,2-Dichloropropane	77	7.302	7.302	(0.894)	535571	10.2708	10.2708
48	Bromochloromethane	128	7.480	7.473	(0.916)	120705	10.0164	10.0164
49	Chloroform	83	7.480	7.481	(0.916)	569936	10.2176	10.2176
53	1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	532797	9.78589	9.78589
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	579555	10.1342	10.1342
56	Carbon Tetrachloride	117	7.852	7.852	(0.961)	473129	10.2009	10.2009
60	Benzene	78	7.995	7.995	(0.979)	1570154	10.3986	10.3986
58	1,2-Dichloroethane	62	7.974	7.974	(0.976)	280883	10.0374	10.0374
63	Trichloroethene	95	8.446	8.446	(1.034)	400304	10.4058	10.4058
66	1,2-Dichloropropane	63	8.632	8.632	(1.057)	326123	10.1290	10.1290
69	Dibromomethane	93	8.739	8.732	(1.070)	105924	9.87322	9.87322
70	Bromodichloromethane	83	8.796	8.796	(1.077)	344399	10.4741	10.4741
73	cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	452202	10.6081	10.6081
74	4-Methyl-2-pentanone	43	9.161	9.161	(1.122)	426052	39.1522	39.1522
76	Toluene	91	9.397	9.397	(1.151)	1672737	10.1376	10.1376
78	trans-1,3-Dichloropropene	75	9.490	9.490	(1.162)	324966	10.3599	10.3599
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	160944	10.2164	10.2164
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	302676	10.1858	10.1858
82	Tetrachloroethene	164	9.826	9.826	(0.939)	310334	10.2103	10.2103
80	2-Hexanone	43	9.769	9.769	(0.933)	293759	40.4373	40.4373
83	Dibromochloromethane	129	10.004	10.005	(0.956)	181423	9.79438	9.79438
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	140668	10.0053	10.0053
86	1-Chlorohexane	91	10.362	10.362	(0.990)	594484	10.0428	10.0428
88	Chlorobenzene	112	10.491	10.491	(1.002)	931069	10.3734	10.3734
89	1,1,1,2-Tetrachloroethane	131	10.526	10.527	(1.005)	270027	10.2944	10.2944
90	Ethylbenzene	106	10.526	10.527	(1.005)	593820	10.2258	10.2258
91	m and p-Xylene	106	10.605	10.605	(1.013)	1430914	20.2099	20.2099
92	o-Xylene	106	10.941	10.941	(1.045)	659780	10.0033	10.0032
93	Styrene	104	10.941	10.941	(1.045)	1027533	10.4846	10.4846
94	Bromoform	173	11.163	11.163	(1.066)	79744	10.8293	10.8293
95	isopropyl benzene	105	11.213	11.213	(0.903)	1872205	11.0513	11.0513
97	Cyclohexanone	55	11.363	11.363	(1.085)	88056	248.099	248.099
99	1,1,2,2-Tetrachloroethane	83	11.435	11.435	(0.921)	155292	10.4673	10.4673
103	Bromobenzene	156	11.570	11.570	(0.931)	304633	10.0127	10.0127
101	1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	43122	10.7074	10.7074
102	n-Propylbenzene	120	11.556	11.556	(0.930)	510570	9.81100	9.81100
105	2-Chlorotoluene	126	11.692	11.692	(0.941)	385950	9.90542	9.90542
104	1,3,5-Trimethylbenzene	105	11.670	11.671	(0.940)	1469809	10.0215	10.0215
106	4-Chlorotoluene	126	11.771	11.778	(0.948)	388850	10.0542	10.0542
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	1506022	9.96860	9.96860
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	1415847	9.83433	9.83433
109	sec-Butylbenzene	134	12.185	12.185	(0.981)	414456	9.97440	9.97440
110	4-Isopropyltoluene	119	12.285	12.285	(0.989)	1636686	9.87337	9.87337
111	1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	661434	10.0599	10.0599
113	1,4-dichlorobenzene	146	12.443	12.450	(1.002)	636770	10.0526	10.0526
115	n-Butylbenzene	91	12.679	12.679	(1.021)	1623058	9.82213	9.82213
116	1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	528456	10.0077	10.0077
117	1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	20635	9.70559	9.70559
118	1,2,4-Trichlorobenzene	180	14.724	14.724	(1.185)	345150	9.67563	9.67563
119	Hexachlorobutadiene	225	14.881	14.881	(1.198)	248177	9.84619	9.84618
120	Naphthalene	128	15.138	15.138	(1.219)	476003	9.65633	9.65632

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
121 1,2,3-Trichlorobenzene	180	15.489	15.496	(1.247)	260286	9.39176	9.39176

Data File: E4610.D

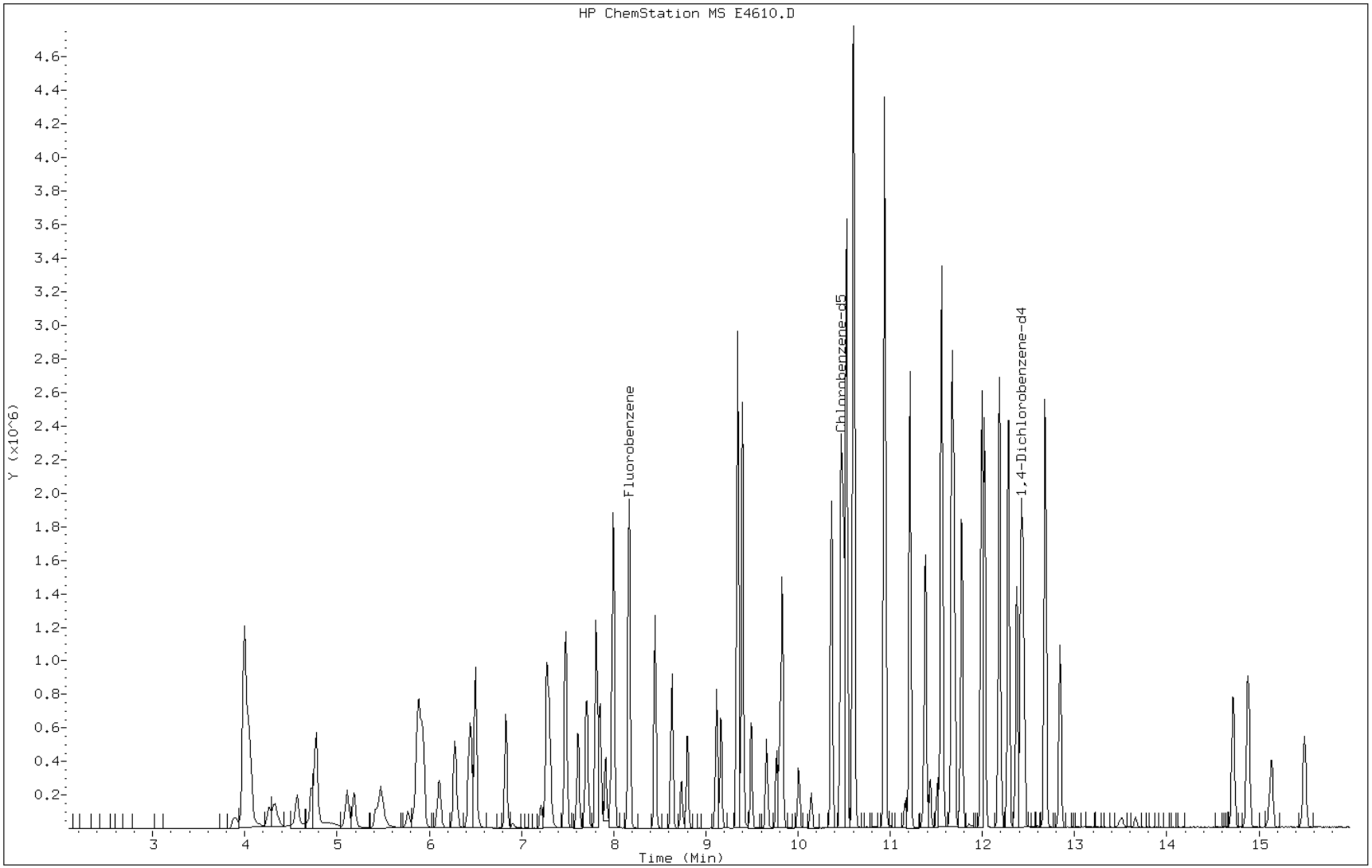
Date: 28-NOV-2011 12:52

Client ID: ICV

Instrument: E.i

Sample Info: ICV,,A

Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: ICV 280-97801/18 Calibration Date: 11/28/2011 15:25

Instrument ID: MSV_E Calib Start Date: 11/28/2011 13:31

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 15:06

Lab File ID: E4618.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.0908	0.2412		26.6	10.0	165.5*	50.0
Ethylene oxide	Ave	0.0058	0.0059		1270	1250	2.0	55.0
Dichlorofluoromethane	Ave	0.5605	0.5009		8.94	10.0	-10.6	55.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.3188	0.2568		8.05	10.0	-19.5	55.0
Ethyl ether	Ave	0.1396	0.1230		8.81	10.0	-11.9	35.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.4572	0.4114		9.00	10.0	-10.0	55.0
1,1,2-Trichlorotrifluoroethane	Ave	0.2453	0.2238		9.12	10.0	-8.8	55.0
2-Propanol	Ave	0.0050	0.0047		188	200	-6.1	55.0
Methyl acetate	Ave	0.0613	0.0552		45.0	50.0	-10.0	55.0
Allyl chloride	Ave	0.4754	0.4282		9.01	10.0	-9.9	35.0
Carbon disulfide	Ave	1.144	1.011		8.84	10.0	-11.6	55.0
Methyl tert-butyl ether	Ave	0.3984	0.3485		8.75	10.0	-12.5	35.0
Hexane	Ave	2.444	2.547		10.4	10.0	4.2	35.0
Vinyl acetate	Ave	0.2149	0.1626		15.1	20.0	-24.4	55.0
Tert-butyl ethyl ether	Ave	0.5574	0.5086		45.6	50.0	-8.8	35.0
Ethyl acetate	Ave	0.0804	0.0707		17.6	20.0	-12.1	55.0
Tetrahydrofuran	Ave	0.0239	0.0210		17.6	20.0	-12.1	55.0
Cyclohexane	Ave	0.6239	0.5571		8.93	10.0	-10.7	35.0
Tert-amyl methyl ether	Ave	0.4359	0.3869		44.4	50.0	-11.2	35.0
2-Pentanone	Ave	0.0566	0.0626		44.2	40.0	10.5	55.0
Methyl methacrylate	Ave	0.0269	0.0244		18.1	20.0	-9.3	35.0
Methylcyclohexane	Ave	0.4939	0.4454		9.02	10.0	-9.8	35.0
2-Chloroethyl vinyl ether	Ave	0.0648	0.0566		8.73	10.0	-12.7	55.0
2-Nitropropane	Ave	0.0226	0.0210		9.27	10.0	-7.3	55.0
Ethyl methacrylate	Ave	0.6772	0.6659		19.7	20.0	-1.7	35.0
Tetrahydrothiophene	Ave	0.3439	0.2912		8.47	10.0	-15.3	55.0
cis-1,4-Dichloro-2-butene	Ave	0.1010	0.1150		11.4	10.0	13.9	55.0
trans-1,4-Dichloro-2-butene	Ave	0.0996	0.1016		10.2	10.0	2.1	55.0
1,2,3-Trimethylbenzene	Ave	3.292	3.450		10.5	10.0	4.8	35.0
Dibromofluoromethane (Surr)	Ave	0.2074	0.1970		12.3	13.0	-5.0	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1687	0.1573		12.1	13.0	-6.8	35.0
Toluene-d8 (Surr)	Ave	4.683	5.054		14.0	13.0	7.9	35.0
4-Bromofluorobenzene (Surr)	Ave	1.078	1.157		13.9	13.0	7.3	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4618.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 28-NOV-2011 15:25
Operator : MEIERG Inst ID: E.i
Smp Info : ICV,,S
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\8260B-H2O.m
Meth Date : 28-Nov-2011 21:19 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC186

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 61 Fluorobenzene	96	8.167	8.166	(1.000)	1859295	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	358374	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	459910	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.616	7.609	(0.933)	380827	12.3464	12.3464
$ 57 1,2-Dichloroethane-d4	65	7.917	7.909	(0.969)	304179	12.1192	12.1192
$ 75 Toluene-d8	98	9.347	9.339	(0.893)	1883709	14.0308	14.0308
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	553184	13.9440	13.9440
7 1,2-Dichlorotetrafluoroethane	85	4.495	4.482	(0.550)	358711	26.5506	26.5506
11 Ethylene Oxide	43	5.054	5.041	(0.619)	1091379	1274.48	1274.48
14 Dichlorofluoromethane	67	5.347	5.334	(0.655)	745047	8.93617	8.93617
17 1,2-dichloro-1,1,2-trifluoro	117	5.598	5.599	(0.686)	381921	8.05290	8.05290
18 Ethyl Ether	59	5.612	5.613	(0.687)	182944	8.81271	8.81271
19 2,2-dichloro-1,1,1-trifluoro	83	5.640	5.627	(0.691)	611947	8.99778	8.99778
21 Trichlorotrifluoroethane	151	5.878	5.879	(0.720)	332952	9.12346	9.12346
23 2-propanol	45	5.878	5.879	(0.720)	138576	187.759	187.759
27 Methyl Acetate	43	6.115	6.114	(0.749)	410157	44.9842	44.9842
28 Allyl Chloride	41	6.179	6.171	(0.757)	636926	9.00707	9.00707
29 Carbon Disulfide	76	6.236	6.229	(0.764)	1503320	8.83817	8.83817
33 Methyl t-butyl ether	73	6.451	6.443	(0.790)	518374	8.74683	8.74683
35 Hexane	57	6.665	6.658	(0.637)	730298	10.4222	10.4222
36 Vinyl acetate	43	6.758	6.751	(0.828)	483574	15.1293	15.1293
40 ETBE	59	7.059	7.051	(0.864)	3782390	45.6194	45.6194

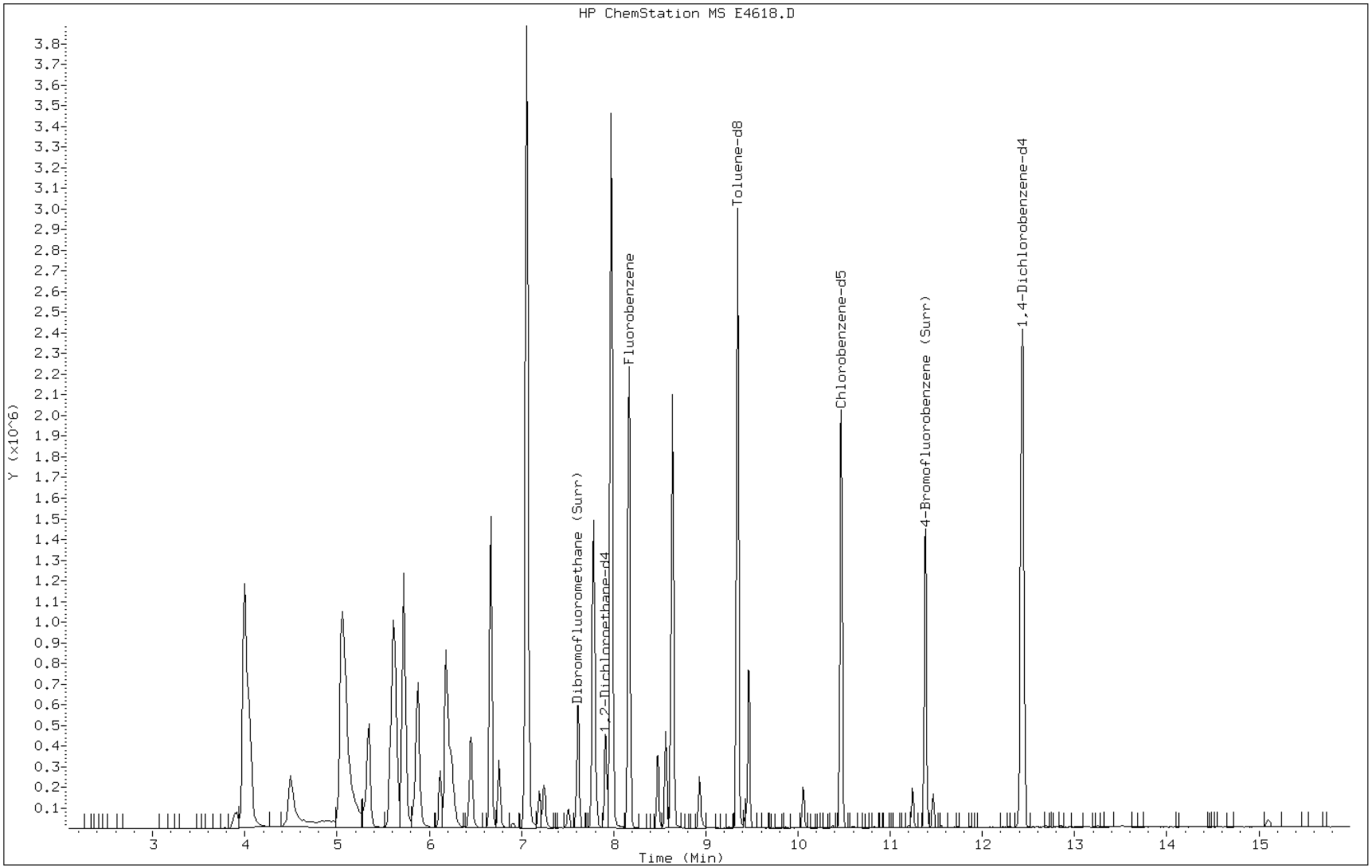
						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
41 Ethyl Acetate	43	7.194	7.187	(0.881)	210216	17.5775	17.5775
43 2-Butanol	45	7.244	7.244	(0.887)	229904	261.604	261.604
50 Tetrahydrofuran	42	7.509	7.501	(0.919)	62568	17.5873	17.5873
54 Cyclohexane	56	7.781	7.780	(0.953)	828610	8.92818	8.92818
59 TAME	73	7.974	7.973	(0.976)	2877472	44.3816	44.3816
64 2-Pentanone	43	8.481	8.474	(1.039)	372516	44.2111	44.2111
67 Methyl Cyclohexane	55	8.639	8.631	(1.058)	662533	9.01804	9.01804
65 Methyl Methacrylate	100	8.567	8.560	(1.049)	72514	18.1400	18.1400
72 2-nitropropane	41	8.939	8.931	(1.095)	31220	9.27081	9.27081
71 2-Chloroethyl vinyl ether	63	8.932	8.931	(1.094)	84167	8.72799	8.72799
77 Ethyl methacrylate	69	9.468	9.460	(0.904)	381851	19.6673	19.6673
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	83478	8.46623	8.46623
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	42296	11.3866	11.3866
100 t-1,4-Dichloro-2-butene	53	11.463	11.463	(0.923)	37398	10.2052	10.2052
114 1,2,3-Trimethylbenzene	105	12.443	12.442	(1.002)	1269400	10.4813	10.4813

Data File: E4618.D

Date: 28-NOV-2011 15:25

Client ID: ICV Instrument: E.i

Sample Info: ICV,,S Operator: MEIERG



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: CCV 280-98185/2 Calibration Date: 11/29/2011 20:56

Instrument ID: MSV_E Calib Start Date: 11/28/2011 10:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 12:14

Lab File ID: E4803.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.2964	0.2814		19.2	20.0	-5.1	35.0
Xylenes, Total	Ave	2.284	2.658		34.6	30.0	16.4	35.0
Dichlorodifluoromethane	Lin1	0.2560	0.2578		9.33	10.0	-6.7	50.0
Chloromethane	Ave	0.2294	0.2398	0.1000	10.5	10.0	4.5	35.0
Vinyl chloride	Ave	0.2363	0.2559		10.8	10.0	8.3	20.0
Bromomethane	Ave	0.1811	0.1794		9.91	10.0	-0.9	35.0
Chloroethane	Ave	0.2017	0.2075		10.3	10.0	2.9	35.0
Ethanol	Ave	0.0009	0.0009		511	500	2.3	50.0
Trichlorofluoromethane	Ave	0.3952	0.4189		10.6	10.0	6.0	50.0
Acrolein	Ave	0.0132	0.0125		94.5	100	-5.5	50.0
Acetone	Lin2	0.0272	0.0208		34.8	40.0	-13.1	50.0
1,1-Dichloroethene	Ave	0.2866	0.2778		9.69	10.0	-3.1	20.0
Iodomethane	Ave	0.3480	0.3316		9.53	10.0	-4.7	35.0
Acetonitrile	Ave	0.0085	0.0084		98.7	100	-1.3	50.0
Tert-butyl alcohol (2-methyl-2-propanol)	Ave	0.0070	0.0058		166	200	-17.0	50.0
Methylene Chloride	Ave	0.2478	0.2336		9.43	10.0	-5.7	35.0
Acrylonitrile	Ave	0.0294	0.0260		88.5	100	-11.5	50.0
trans-1,2-Dichloroethene	Ave	0.2944	0.2902		9.86	10.0	-1.4	35.0
Isopropyl ether	Ave	0.1937	0.1799		46.4	50.0	-7.1	35.0
1,1-Dichloroethane	Ave	0.4806	0.4930	0.1000	10.3	10.0	2.6	35.0
Chloroprene	Ave	0.5100	0.5366		10.5	10.0	5.2	35.0
2-Butanone (MEK)	Ave	0.0358	0.0299		33.5	40.0	-16.4	50.0
cis-1,2-Dichloroethene	Ave	0.2917	0.2726		9.34	10.0	-6.6	35.0
Propionitrile	Ave	0.0105	0.0095		90.7	100	-9.3	50.0
2,2-Dichloropropane	Ave	0.3924	0.4204		10.7	10.0	7.1	35.0
Methacrylonitrile	Ave	0.0542	0.0499		92.0	100	-8.0	50.0
Bromochloromethane	Ave	0.0907	0.0794		8.75	10.0	-12.5	35.0
Chloroform	Ave	0.4197	0.4148		9.88	10.0	-1.2	20.0
Isobutyl alcohol	Ave	0.0026	0.0021		156	200	-22.1	50.0
1,1,1-Trichloroethane	Ave	0.4097	0.4203		10.3	10.0	2.6	35.0
1,1-Dichloropropene	Ave	0.4303	0.4378		10.2	10.0	1.7	35.0
Carbon tetrachloride	Ave	0.3490	0.3580		10.3	10.0	2.6	35.0
1,2-Dichloroethane	Lin1	0.2384	0.1956		9.27	10.0	-7.3	35.0
Benzene	Ave	1.136	1.120		9.85	10.0	-1.5	35.0
n-Butanol	Ave	0.0039	0.0019		145	300	-51.6*	50.0
Trichloroethene	Ave	0.2895	0.2842		9.82	10.0	-1.8	35.0
1,2-Dichloropropane	Ave	0.2423	0.2271		9.37	10.0	-6.3	20.0
1,4-Dioxane	Ave	0.0008	0.0007		450	500	-9.9	50.0
Dibromomethane	Ave	0.0807	0.0705		8.74	10.0	-12.6	35.0
Bromodichloromethane	Ave	0.2474	0.2355		9.52	10.0	-4.8	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: CCV 280-98185/2 Calibration Date: 11/29/2011 20:56

Instrument ID: MSV_E Calib Start Date: 11/28/2011 10:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 12:14

Lab File ID: E4803.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
cis-1,3-Dichloropropene	Ave	0.3208	0.2934		9.15	10.0	-8.5	35.0
4-Methyl-2-pentanone	Ave	0.0819	0.0657		32.1	40.0	-19.8	50.0
Toluene	Ave	1.242	1.181		9.51	10.0	-4.9	20.0
trans-1,3-Dichloropropene	Ave	0.2360	0.2089		8.85	10.0	-11.5	35.0
1,1,2-Trichloroethane	Ave	0.1185	0.1033		8.71	10.0	-12.9	35.0
2-Hexanone	Ave	0.2421	0.2268		37.5	40.0	-6.3	50.0
1,3-Dichloropropane	Ave	0.9903	1.077		10.9	10.0	8.8	35.0
Tetrachloroethene	Ave	1.013	1.154		11.4	10.0	13.9	35.0
Dibromochloromethane	Lin1	0.5545	0.6047		9.80	10.0	-2.0	35.0
1,2-Dibromoethane (EDB)	Ave	0.4685	0.4738		10.1	10.0	1.1	35.0
1-Chlorohexane	Ave	1.973	2.231		11.6	10.3	13.1	35.0
Chlorobenzene	Ave	2.991	3.388	0.3000	11.3	10.0	13.3	35.0
1,1,1,2-Tetrachloroethane	Ave	0.8742	0.9652		11.0	10.0	10.4	35.0
Ethylbenzene	Ave	1.935	2.239		11.6	10.0	15.7	20.0
m-Xylene & p-Xylene	Ave	2.360	2.744		23.3	20.0	16.3	35.0
o-Xylene	Ave	2.198	2.487		11.3	10.0	13.1	35.0
Styrene	Ave	3.266	3.636		11.1	10.0	11.3	35.0
Bromoform	Ave	0.2454	0.2235	0.1000	9.11	10.0	-8.9	35.0
Isopropylbenzene	Ave	4.173	5.366		12.9	10.0	28.6	35.0
Cyclohexanone	Ave	0.0118	0.0113		381	400	-4.7	50.0
1,1,2,2-Tetrachloroethane	Ave	0.3654	0.4223	0.3000	11.6	10.0	15.6	35.0
1,2,3-Trichloropropane	Ave	0.0992	0.1150		11.6	10.0	15.9	35.0
n-Propylbenzene	Ave	1.282	1.597		12.5	10.0	24.6	35.0
Bromobenzene	Ave	0.7494	0.8566		11.4	10.0	14.3	35.0
1,3,5-Trimethylbenzene	Ave	3.613	4.601		12.7	10.0	27.4	35.0
2-Chlorotoluene	Ave	0.9597	1.174		12.2	10.0	22.3	35.0
4-Chlorotoluene	Ave	0.9527	1.147		12.0	10.0	20.5	35.0
tert-Butylbenzene	Ave	3.721	4.690		12.6	10.0	26.0	35.0
1,2,4-Trimethylbenzene	Ave	3.546	4.404		12.4	10.0	24.2	35.0
sec-Butylbenzene	Ave	1.024	1.251		12.2	10.0	22.2	35.0
4-Isopropyltoluene	Ave	4.083	5.131		12.6	10.0	25.7	35.0
1,3-Dichlorobenzene	Ave	1.620	1.876		11.6	10.0	15.8	35.0
1,4-Dichlorobenzene	Ave	1.560	1.779		11.4	10.0	14.0	35.0
n-Butylbenzene	Ave	4.070	5.163		12.7	10.0	26.8	35.0
1,2-Dichlorobenzene	Ave	1.301	1.459		11.2	10.0	12.1	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0524	0.0491		9.38	10.0	-6.2	50.0
1,2,4-Trichlorobenzene	Ave	0.8787	0.8954		10.2	10.0	1.9	35.0
Hexachlorobutadiene	Ave	0.6209	0.7111		11.5	10.0	14.5	35.0
Naphthalene	Ave	1.214	1.171		9.64	10.0	-3.6	35.0
1,2,3-Trichlorobenzene	Ave	0.6827	0.6775		9.92	10.0	-0.8	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4803.D
Lab Smp Id: CCV
Inj Date : 29-NOV-2011 20:56
Operator : TINKHAMS Inst ID: E.i
Smp Info : CCV,,M 1129891/1131966
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:33 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	61 Fluorobenzene	96	8.167	8.167	(1.000)	1836144	12.5000		
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	345177	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	420190	12.5000		(Q)
M	1 1,2-Dichloroethene (total)	96				826726	20.0000	19.2011	
M	2 Xylene (total)	106				2202160	30.0000	34.5715	
M	3 1,3-Dichloropropene (total)	75				737724	20.0000	17.9939	
M	4 Trihalomethanes (total)	83				1183846	40.0000	38.3011	
	6 dichlorodifluoromethane	85	4.327	4.327	(0.530)	378620	10.0000	9.33462	
	8 Chloromethane	50	4.565	4.565	(0.559)	352253	10.0000	10.4517	
	9 Vinyl Chloride	62	4.718	4.718	(0.578)	375858	10.0000	10.8265	
	12 Bromomethane	94	5.109	5.109	(0.626)	263532	10.0000	9.90595	
	13 Chloroethane	64	5.179	5.179	(0.634)	304819	10.0000	10.2881	
	15 Trichlorofluoromethane	101	5.458	5.458	(0.668)	615379	10.0000	10.5993	
	16 Ethanol	45	5.458	5.458	(0.668)	68072	500.000	511.314	
	20 Acrolein	56	5.766	5.766	(0.706)	183524	100.000	94.5339	
	22 Acetone	43	5.863	5.863	(0.718)	122259	40.0000	34.7631	
	24 1,1-Dichloroethene	96	5.919	5.919	(0.725)	408007	10.0000	9.69260	
	25 Iodomethane	142	6.100	6.100	(0.747)	487081	10.0000	9.52978	
	26 Acetonitrile	41	6.115	6.115	(0.749)	123934	100.000	98.7031	
	30 tert-Butyl alcohol	59	6.215	6.215	(0.761)	171318	200.000	166.025	
	31 Methylene Chloride	84	6.272	6.272	(0.768)	343175	10.0000	9.42751	
	32 Acrylonitrile	53	6.429	6.429	(0.787)	381761	100.000	88.4958	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
34 trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	426326	10.0000	9.85753
37 Isopropyl ether	87	6.765	6.765	(0.828)	1321046	50.0000	46.4363
38 1,1-Dichloroethane	63	6.830	6.830	(0.836)	724190	10.0000	10.2593
39 Chloroprene	53	6.901	6.901	(0.845)	788184	10.0000	10.5220
42 2-Butanone	43	7.209	7.209	(0.883)	175892	40.0000	33.4539
45 cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	400400	10.0000	9.34355
44 Propionitrile	54	7.273	7.273	(0.891)	140029	100.000	90.7075
46 2,2-Dichloropropane	77	7.302	7.302	(0.894)	617585	10.0000	10.7146
47 Methacrylonitrile	41	7.402	7.402	(0.906)	732704	100.000	92.0285
48 Bromochloromethane	128	7.473	7.473	(0.915)	116586	10.0000	8.75236
49 Chloroform	83	7.480	7.480	(0.916)	609229	10.0000	9.88093
53 1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	617436	10.0000	10.2595
52 Isobutanol	41	7.666	7.666	(0.939)	60371	200.000	155.770
55 1,1-Dichloropropene	75	7.809	7.809	(0.956)	643050	10.0000	10.1726
56 Carbon Tetrachloride	117	7.852	7.852	(0.961)	525905	10.0000	10.2580
58 1,2-Dichloroethane	62	7.974	7.974	(0.976)	287278	10.0000	9.27164
60 Benzene	78	7.995	7.995	(0.979)	1644761	10.0000	9.85436
62 n-Butanol	56	8.174	8.174	(1.001)	82220	200.000	145.181
63 Trichloroethene	95	8.446	8.446	(1.034)	417495	10.0000	9.81814
66 1,2-Dichloropropane	63	8.631	8.631	(1.057)	333620	10.0000	9.37410
68 1,4-Dioxane	88	8.682	8.682	(1.063)	53055	500.000	450.439
69 Dibromomethane	93	8.732	8.732	(1.069)	103620	10.0000	8.73780
70 Bromodichloromethane	83	8.796	8.796	(1.077)	345912	10.0000	9.51732
73 cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	430910	10.0000	9.14502
74 4-Methyl-2-pentanone	43	9.161	9.161	(1.122)	385779	40.0000	32.0720
76 Toluene	91	9.397	9.397	(1.151)	1735182	10.0000	9.51367
78 trans-1,3-Dichloropropene	75	9.489	9.489	(1.162)	306814	10.0000	8.84889
79 1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	151699	10.0000	8.71166
80 2-Hexanone	43	9.768	9.768	(0.933)	250484	40.0000	37.4673
81 1,3-Dichloropropane	76	9.804	9.804	(0.936)	297495	10.0000	10.8787
82 Tetrachloroethene	164	9.826	9.826	(0.939)	318570	10.0000	11.3892
83 Dibromochloromethane	129	10.004	10.004	(0.956)	166993	10.0000	9.79630
85 1,2-Dibromoethane	107	10.140	10.140	(0.969)	130840	10.0000	10.1124
86 1-Chlorohexane	91	10.362	10.362	(0.990)	632232	10.0000	11.6057
88 Chlorobenzene	112	10.490	10.490	(1.002)	935607	10.0000	11.3270
89 1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	266524	10.0000	11.0410
90 Ethylbenzene	106	10.526	10.526	(1.005)	618417	10.0000	11.5719
91 m and p-Xylene	106	10.605	10.605	(1.013)	1515446	20.0000	23.2580
92 o-Xylene	106	10.941	10.941	(1.045)	686714	10.0000	11.3135
93 Styrene	104	10.941	10.941	(1.045)	1004168	10.0000	11.1338
94 Bromoform	173	11.163	11.163	(1.066)	61712	10.0000	9.10652
95 isopropyl benzene	105	11.213	11.213	(0.903)	1803899	10.0000	12.8599
97 Cyclohexanone	55	11.363	11.363	(1.085)	124475	400.000	381.092
99 1,1,2,2-Tetrachloroethane	83	11.434	11.434	(0.921)	141968	10.0000	11.5570
101 1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	38646	10.0000	11.5893
103 Bromobenzene	156	11.570	11.570	(0.931)	287951	10.0000	11.4304
102 n-Propylbenzene	120	11.556	11.556	(0.930)	536896	10.0000	12.4599
105 2-Chlorotoluene	126	11.692	11.692	(0.941)	394676	10.0000	12.2335
104 1,3,5-Trimethylbenzene	105	11.670	11.670	(0.940)	1546695	10.0000	12.7363
106 4-Chlorotoluene	126	11.778	11.778	(0.948)	385725	10.0000	12.0450
107 tert-Butylbenzene	119	11.992	11.992	(0.965)	1576495	10.0000	12.6027
108 1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	1480400	10.0000	12.4187
109 sec-Butylbenzene	134	12.185	12.185	(0.981)	420459	10.0000	12.2208
110 4-Isopropyltoluene	119	12.285	12.285	(0.989)	1724741	10.0000	12.5658

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
111 1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	630497	10.0000	11.5813
113 1,4-dichlorobenzene	146	12.450	12.450	(1.002)	597939	10.0000	11.4004
115 n-Butylbenzene	91	12.686	12.686	(1.021)	1735485	10.0000	12.6841
116 1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	490342	10.0000	11.2148
117 1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	16504	10.0000	9.37505
118 1,2,4-Trichlorobenzene	180	14.723	14.723	(1.185)	300999	10.0000	10.1907
119 Hexachlorobutadiene	225	14.888	14.888	(1.199)	239040	10.0000	11.4536
120 Naphthalene	128	15.138	15.138	(1.219)	393471	10.0000	9.64011
121 1,2,3-Trichlorobenzene	180	15.496	15.496	(1.248)	227738	10.0000	9.92428

QC Flag Legend

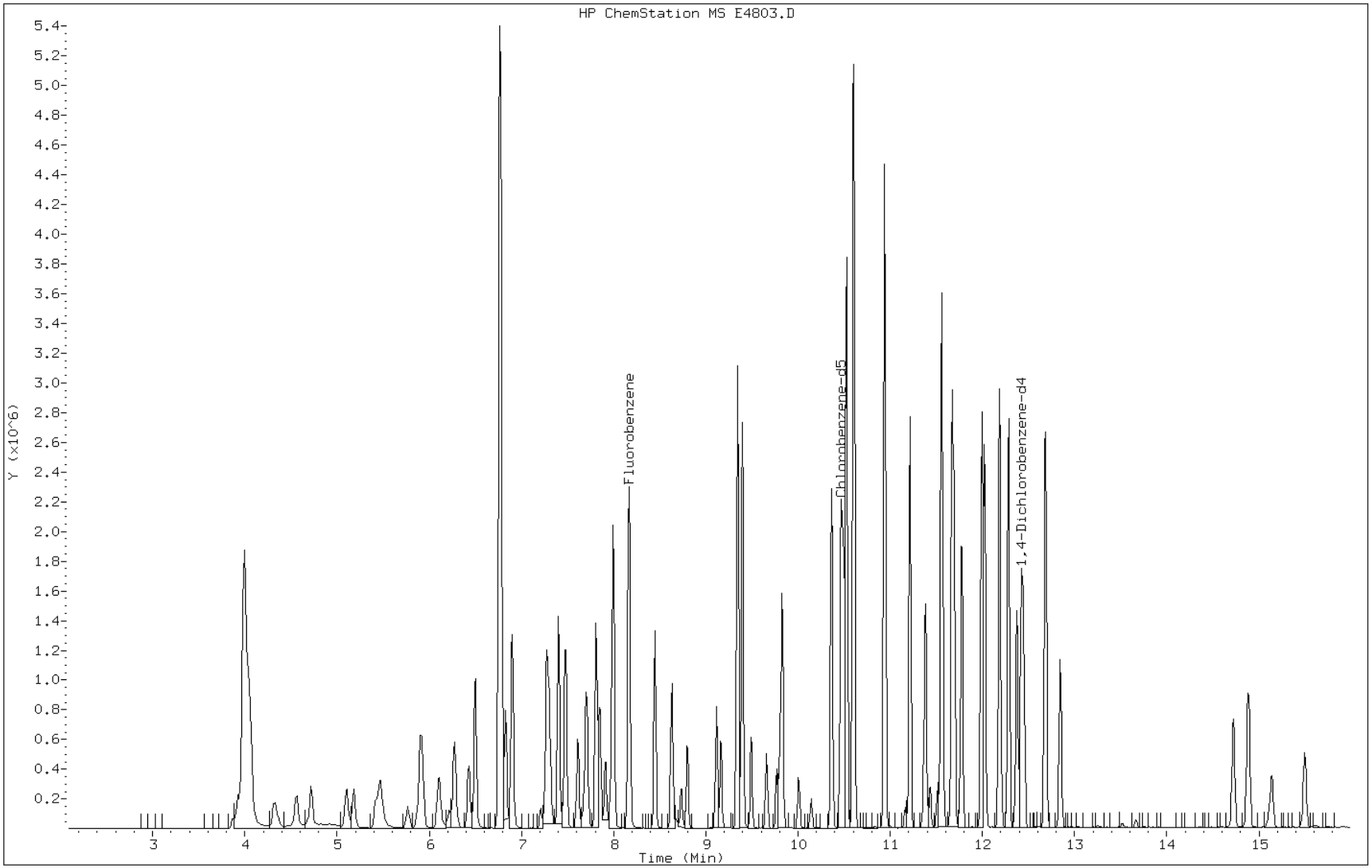
Q - Qualifier signal failed the ratio test.

Data File: E4803.D

Date: 29-NOV-2011 20:56

Client ID: Instrument: E.i

Sample Info: CCV,,M 1129891/1131966 Operator: TINKHAMS



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: CCV 280-98185/3 Calibration Date: 11/29/2011 21:16

Instrument ID: MSV_E Calib Start Date: 11/28/2011 13:31

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 15:06

Lab File ID: E4804.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.0908	0.0932		10.3	10.0	2.6	50.0
Ethylene oxide	Ave	0.0058	0.0054		1160	1250	-6.9	50.0
Dichlorofluoromethane	Ave	0.5605	0.5592		9.98	10.0	-0.2	50.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.3188	0.3098		9.72	10.0	-2.8	50.0
Ethyl ether	Ave	0.1396	0.1223		8.76	10.0	-12.4	35.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.4572	0.4488		9.82	10.0	-1.8	50.0
1,1,2-Trichlorotrifluoroethane	Ave	0.2453	0.2481		10.1	10.0	1.1	50.0
2-Propanol	Ave	0.0050	0.0048		195	200	-2.7	50.0
Methyl acetate	Ave	0.0613	0.0536		43.7	50.0	-12.6	50.0
Allyl chloride	Ave	0.4754	0.4735		9.96	10.0	-0.4	35.0
Carbon disulfide	Ave	1.144	1.133		9.90	10.0	-1.0	50.0
Methyl tert-butyl ether	Ave	0.3984	0.3410		8.56	10.0	-14.4	35.0
Hexane	Ave	2.444	2.905		11.9	10.0	18.9	35.0
Vinyl acetate	Ave	0.2149	0.2019		18.8	20.0	-6.0	50.0
Tert-butyl ethyl ether	Ave	0.5574	0.5106		45.8	50.0	-8.4	35.0
Ethyl acetate	Ave	0.0804	0.0694		17.3	20.0	-13.7	50.0
Tetrahydrofuran	Ave	0.0239	0.0209		17.4	20.0	-12.8	50.0
Cyclohexane	Ave	0.6239	0.6249		10.0	10.0	0.2	35.0
Tert-amyl methyl ether	Ave	0.4359	0.3844		44.1	50.0	-11.8	35.0
2-Pentanone	Ave	0.0566	0.0480		33.9	40.0	-15.2	50.0
Methyl methacrylate	Ave	0.0269	0.0213		15.8	20.0	-20.8	35.0
Methylcyclohexane	Ave	0.4939	0.4926		9.97	10.0	-0.3	35.0
2-Chloroethyl vinyl ether	Ave	0.0648	0.0521		8.04	10.0	-19.6	50.0
2-Nitropropane	Ave	0.0226	0.0173		7.62	10.0	-23.8	50.0
Ethyl methacrylate	Ave	0.6772	0.6420		19.0	20.0	-5.2	35.0
Tetrahydrothiophene	Ave	0.3439	0.3383		9.84	10.0	-1.6	50.0
cis-1,4-Dichloro-2-butene	Ave	0.1010	0.1062		10.5	10.0	5.2	50.0
trans-1,4-Dichloro-2-butene	Ave	0.0996	0.1066		10.7	10.0	7.0	50.0
1,2,3-Trimethylbenzene	Ave	3.292	3.695		11.2	10.0	12.3	35.0
Dibromofluoromethane (Surr)	Ave	0.2074	0.1929		12.1	13.0	-7.0	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1687	0.1515		11.7	13.0	-10.2	35.0
Toluene-d8 (Surr)	Ave	4.683	5.221		14.5	13.0	11.5	35.0
4-Bromofluorobenzene (Surr)	Ave	1.078	1.176		14.2	13.0	9.1	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4804.D
Lab Smp Id: CCV
Inj Date : 29-NOV-2011 21:16
Operator : TINKHAMS Inst ID: E.i
Smp Info : CCV,,S 111312/11117687
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1757222	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	328771	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	400026	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.608	7.608	(0.932)	352574	10.0000	12.0944
$ 57 1,2-Dichloroethane-d4	65	7.916	7.916	(0.969)	276927	10.0000	11.6744
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	1785288	10.0000	14.4950
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	489244	10.0000	14.1784
7 1,2-Dichlorotetrafluoroethane	85	4.482	4.482	(0.549)	130996	10.0000	10.2591
11 Ethylene Oxide	43	5.055	5.055	(0.619)	942220	1250.00	1164.21
14 Dichlorofluoromethane	67	5.334	5.334	(0.653)	786089	10.0000	9.97611
17 1,2-dichloro-1,1,2-trifluoro	117	5.585	5.585	(0.684)	435520	10.0000	9.71647
18 Ethyl Ether	59	5.613	5.613	(0.687)	171931	10.0000	8.76329
19 2,2-dichloro-1,1,1-trifluoro	83	5.627	5.627	(0.689)	630893	10.0000	9.81520
21 Trichlorotrifluoroethane	151	5.879	5.879	(0.720)	348800	10.0000	10.1129
23 2-propanol	45	5.879	5.879	(0.720)	135681	200.000	194.515
27 Methyl Acetate	43	6.114	6.114	(0.749)	376580	50.0000	43.7008
28 Allyl Chloride	41	6.178	6.178	(0.757)	665562	10.0000	9.95875(Q)
29 Carbon Disulfide	76	6.200	6.200	(0.759)	1592069	10.0000	9.90363
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	479309	10.0000	8.55746
35 Hexane	57	6.665	6.665	(0.637)	764097	10.0000	11.8864
36 Vinyl acetate	43	6.758	6.758	(0.828)	567695	20.0000	18.7928
40 ETBE	59	7.058	7.058	(0.864)	3588792	50.0000	45.7987

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
41 Ethyl Acetate	43	7.194	7.194	(0.881)	195023	20.0000	17.2544
43 2-Butanol	45	7.244	7.244	(0.887)	211146	300.000	254.215
50 Tetrahydrofuran	42	7.508	7.508	(0.919)	58656	20.0000	17.4454
54 Cyclohexane	56	7.780	7.780	(0.953)	878480	10.0000	10.0154
59 TAME	73	7.973	7.973	(0.976)	2701661	50.0000	44.0904
64 2-Pentanone	43	8.481	8.481	(1.039)	270021	40.0000	33.9083
67 Methyl Cyclohexane	55	8.638	8.638	(1.058)	692490	10.0000	9.97332
65 Methyl Methacrylate	100	8.567	8.567	(1.049)	59854	20.0000	15.8428
72 2-nitropropane	41	8.931	8.931	(1.094)	24261	10.0000	7.62281
71 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	73301	10.0000	8.04274
77 Ethyl methacrylate	69	9.468	9.468	(0.904)	337688	20.0000	18.9587
84 Tetrahydrothiophene	60	10.054	10.054	(0.960)	88984	10.0000	9.83723
96 cis-1,4-dichloro-2-butene	53	11.241	11.241	(0.905)	33994	10.0000	10.5216
100 t-1,4-Dichloro-2-butene	53	11.462	11.462	(0.923)	34103	10.0000	10.6992
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	1182511	10.0000	11.2255

QC Flag Legend

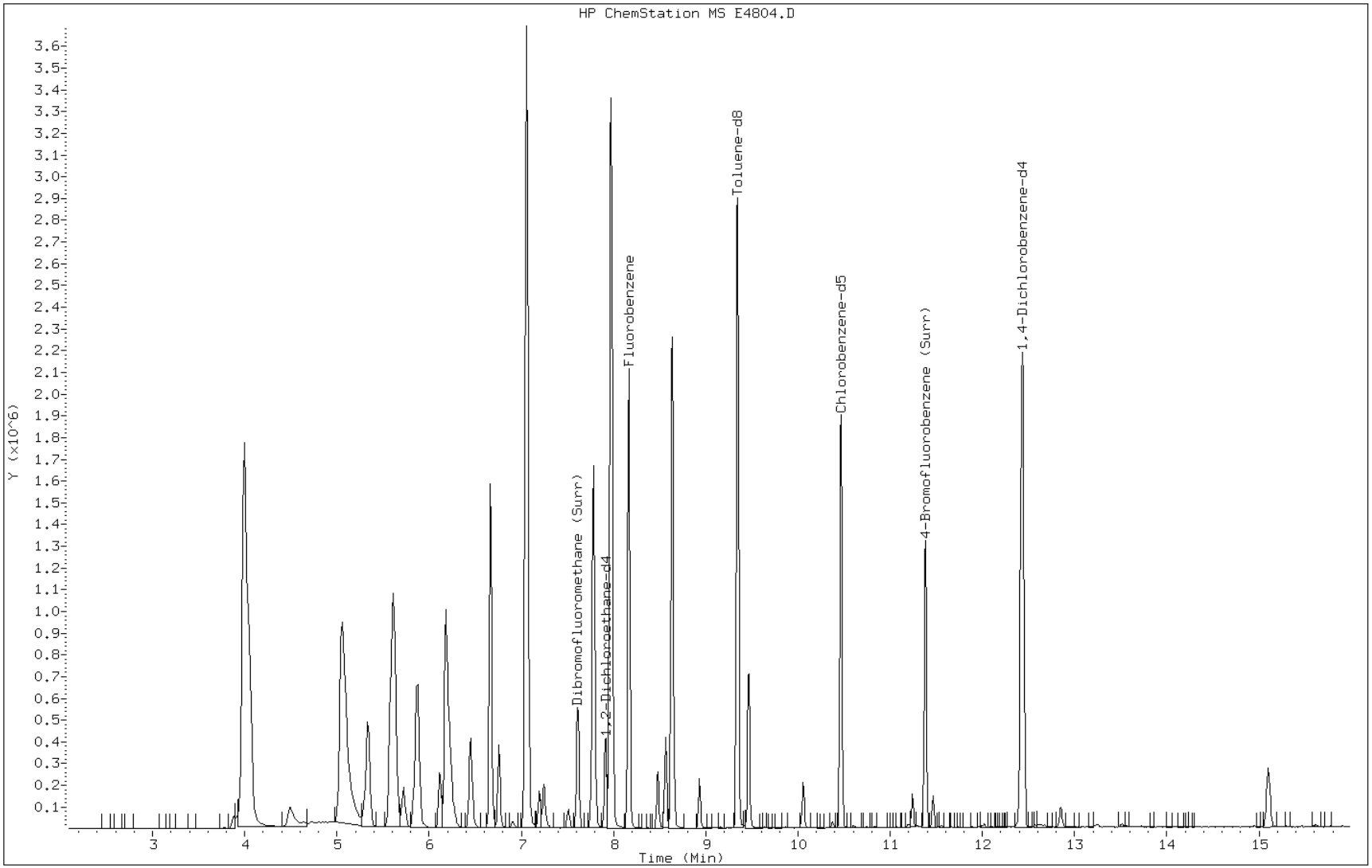
Q - Qualifier signal failed the ratio test.

Data File: E4804.D

Date: 29-NOV-2011 21:16

Client ID: Instrument: E.i

Sample Info: CCV,,S 111312/11117687 Operator: TINKHAMS



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: CCV 280-98252/2 Calibration Date: 11/30/2011 18:58

Instrument ID: MSV_E Calib Start Date: 11/28/2011 10:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 12:14

Lab File ID: E4866.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.2964	0.2651		18.1	20.0	-10.6	35.0
Xylenes, Total	Ave	2.284	2.438		31.7	30.0	6.7	35.0
Dichlorodifluoromethane	Lin1	0.2560	0.2486		9.01	10.0	-9.9	50.0
Chloromethane	Ave	0.2294	0.2108	0.1000	9.19	10.0	-8.1	35.0
Vinyl chloride	Ave	0.2363	0.2301		9.73	10.0	-2.7	20.0
Bromomethane	Ave	0.1811	0.1754		9.68	10.0	-3.2	35.0
Chloroethane	Ave	0.2017	0.1978		9.80	10.0	-2.0	35.0
Ethanol	Ave	0.0009	0.0007		385	500	-23.0	50.0
Trichlorofluoromethane	Ave	0.3952	0.4099		10.4	10.0	3.7	50.0
Acrolein	Ave	0.0132	0.0113		85.7	100	-14.3	50.0
Acetone	Lin2	0.0272	0.0211		35.2	40.0	-12.0	50.0
1,1-Dichloroethene	Ave	0.2866	0.2571		8.97	10.0	-10.3	20.0
Iodomethane	Ave	0.3480	0.3225		9.27	10.0	-7.3	35.0
Acetonitrile	Ave	0.0085	0.0078		91.2	100	-8.8	50.0
Tert-butyl alcohol (2-methyl-2-propanol)	Ave	0.0070	0.0047		134	200	-33.2	50.0
Methylene Chloride	Ave	0.2478	0.2269		9.16	10.0	-8.4	35.0
Acrylonitrile	Ave	0.0294	0.0234		79.7	100	-20.3	50.0
trans-1,2-Dichloroethene	Ave	0.2944	0.2725		9.25	10.0	-7.5	35.0
Isopropyl ether	Ave	0.1937	0.1663		42.9	50.0	-14.1	35.0
1,1-Dichloroethane	Ave	0.4806	0.4515	0.1000	9.39	10.0	-6.1	35.0
Chloroprene	Ave	0.5100	0.4821		9.45	10.0	-5.5	35.0
2-Butanone (MEK)	Ave	0.0358	0.0267		29.9	40.0	-25.4	50.0
cis-1,2-Dichloroethene	Ave	0.2917	0.2577		8.83	10.0	-11.7	35.0
Propionitrile	Ave	0.0105	0.0083		78.6	100	-21.4	50.0
2,2-Dichloropropane	Ave	0.3924	0.3883		9.90	10.0	-1.0	35.0
Methacrylonitrile	Ave	0.0542	0.0421		77.7	100	-22.3	50.0
Bromochloromethane	Ave	0.0907	0.0770		8.49	10.0	-15.1	35.0
Chloroform	Ave	0.4197	0.3888		9.26	10.0	-7.4	20.0
Isobutyl alcohol	Ave	0.0026	0.0017		129	200	-35.6	50.0
1,1,1-Trichloroethane	Ave	0.4097	0.3988		9.73	10.0	-2.7	35.0
1,1-Dichloropropene	Ave	0.4303	0.4089		9.50	10.0	-5.0	35.0
Carbon tetrachloride	Ave	0.3490	0.3373		9.66	10.0	-3.4	35.0
1,2-Dichloroethane	Lin1	0.2384	0.1780		8.42	10.0	-15.8	35.0
Benzene	Ave	1.136	1.038		9.13	10.0	-8.7	35.0
n-Butanol	Ave	0.0039	0.0016		121	300	-59.6*	50.0
Trichloroethene	Ave	0.2895	0.2663		9.20	10.0	-8.0	35.0
1,2-Dichloropropane	Ave	0.2423	0.2069		8.54	10.0	-14.6	20.0
1,4-Dioxane	Ave	0.0008	0.0006		358	500	-28.5	50.0
Dibromomethane	Ave	0.0807	0.0654		8.10	10.0	-19.0	35.0
Bromodichloromethane	Ave	0.2474	0.2146		8.67	10.0	-13.3	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: CCV 280-98252/2 Calibration Date: 11/30/2011 18:58

Instrument ID: MSV_E Calib Start Date: 11/28/2011 10:19

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 12:14

Lab File ID: E4866.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
cis-1,3-Dichloropropene	Ave	0.3208	0.2579		8.04	10.0	-19.6	35.0
4-Methyl-2-pentanone	Ave	0.0819	0.0573		28.0	40.0	-30.0	50.0
Toluene	Ave	1.242	1.107		8.92	10.0	-10.8	20.0
trans-1,3-Dichloropropene	Ave	0.2360	0.1800		7.63	10.0	-23.7	35.0
1,1,2-Trichloroethane	Ave	0.1185	0.0922		7.77	10.0	-22.3	35.0
2-Hexanone	Ave	0.2421	0.2004		33.1	40.0	-17.2	50.0
1,3-Dichloropropane	Ave	0.9903	0.9677		9.77	10.0	-2.3	35.0
Tetrachloroethene	Ave	1.013	1.143		11.3	10.0	12.9	35.0
Dibromochloromethane	Lin1	0.5545	0.5275		8.57	10.0	-14.3	35.0
1,2-Dibromoethane (EDB)	Ave	0.4685	0.4419		9.43	10.0	-5.7	35.0
1-Chlorohexane	Ave	1.973	2.038		10.6	10.3	3.3	35.0
Chlorobenzene	Ave	2.991	3.187	0.3000	10.7	10.0	6.6	35.0
1,1,1,2-Tetrachloroethane	Ave	0.8742	0.8928		10.2	10.0	2.1	35.0
Ethylbenzene	Ave	1.935	2.062		10.7	10.0	6.5	20.0
m-Xylene & p-Xylene	Ave	2.360	2.514		21.3	20.0	6.6	35.0
o-Xylene	Ave	2.198	2.286		10.4	10.0	4.0	35.0
Styrene	Ave	3.266	3.227		9.88	10.0	-1.2	35.0
Bromoform	Ave	0.2454	0.1999	0.1000	8.14	10.0	-18.6	35.0
Isopropylbenzene	Ave	4.173	5.090		12.2	10.0	22.0	35.0
Cyclohexanone	Ave	0.0118	0.0094		318	400	-20.5	50.0
1,1,2,2-Tetrachloroethane	Ave	0.3654	0.3784	0.3000	10.4	10.0	3.6	35.0
1,2,3-Trichloropropane	Ave	0.0992	0.1099		11.1	10.0	10.7	35.0
n-Propylbenzene	Ave	1.282	1.516		11.8	10.0	18.3	35.0
Bromobenzene	Ave	0.7494	0.8118		10.8	10.0	8.3	35.0
1,3,5-Trimethylbenzene	Ave	3.613	4.285		11.9	10.0	18.6	35.0
2-Chlorotoluene	Ave	0.9597	1.116		11.6	10.0	16.3	35.0
4-Chlorotoluene	Ave	0.9527	1.093		11.5	10.0	14.7	35.0
tert-Butylbenzene	Ave	3.721	4.482		12.0	10.0	20.4	35.0
1,2,4-Trimethylbenzene	Ave	3.546	4.070		11.5	10.0	14.8	35.0
sec-Butylbenzene	Ave	1.024	1.229		12.0	10.0	20.1	35.0
4-Isopropyltoluene	Ave	4.083	4.844		11.9	10.0	18.6	35.0
1,3-Dichlorobenzene	Ave	1.620	1.786		11.0	10.0	10.3	35.0
1,4-Dichlorobenzene	Ave	1.560	1.668		10.7	10.0	6.9	35.0
n-Butylbenzene	Ave	4.070	4.690		11.5	10.0	15.2	35.0
1,2-Dichlorobenzene	Ave	1.301	1.336		10.3	10.0	2.7	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0524	0.0398		7.61	10.0	-23.9	50.0
1,2,4-Trichlorobenzene	Ave	0.8787	0.7712		8.78	10.0	-12.2	35.0
Hexachlorobutadiene	Ave	0.6209	0.6313		10.2	10.0	1.7	35.0
Naphthalene	Ave	1.214	0.9361		7.71	10.0	-22.9	35.0
1,2,3-Trichlorobenzene	Ave	0.6827	0.5564		8.15	10.0	-18.5	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4866.D
Lab Smp Id: CCV
Inj Date : 30-NOV-2011 18:58
Operator : TINKHAMS Inst ID: E.i
Smp Info : CCV,,M 1129891/1131966
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\8260B-H2O.m
Meth Date : 30-Nov-2011 19:18 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1949690	12.5000		
*	87 Chlorobenzene-d5	119	10.468	10.468	(1.000)	367921	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.420	12.420	(1.000)	438247	12.5000		(Q)
M	1 1,2-Dichloroethene (total)	96				826952	20.0000	18.0881	
M	2 Xylene (total)	106				2152825	30.0000	31.7093	
M	3 1,3-Dichloropropene (total)	75				683054	20.0000	15.6667	
M	4 Trihalomethanes (total)	83				1155245	40.0000	34.6447	
	6 dichlorodifluoromethane	85	4.314	4.314	(0.528)	387674	10.0000	9.01367	
	8 Chloromethane	50	4.551	4.551	(0.557)	328779	10.0000	9.18709	
	9 Vinyl Chloride	62	4.705	4.705	(0.576)	358825	10.0000	9.73396	
	12 Bromomethane	94	5.096	5.096	(0.624)	273533	10.0000	9.68309	
	13 Chloroethane	64	5.180	5.180	(0.634)	308467	10.0000	9.80488	
	15 Trichlorofluoromethane	101	5.459	5.459	(0.669)	639341	10.0000	10.3707	
	16 Ethanol	45	5.459	5.459	(0.669)	54457	500.000	385.225	
	20 Acrolein	56	5.766	5.766	(0.706)	176671	100.000	85.7040	
	22 Acetone	43	5.864	5.864	(0.718)	131336	40.0000	35.2058	
	24 1,1-Dichloroethene	96	5.906	5.906	(0.723)	401040	10.0000	8.97226	
	25 Iodomethane	142	6.100	6.100	(0.747)	502979	10.0000	9.26771	
	26 Acetonitrile	41	6.121	6.121	(0.750)	121616	100.000	91.2163	
	30 tert-Butyl alcohol	59	6.214	6.214	(0.761)	146313	200.000	133.535	
	31 Methylene Chloride	84	6.271	6.271	(0.768)	353897	10.0000	9.15587	
	32 Acrylonitrile	53	6.429	6.429	(0.787)	365175	100.000	79.7211	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
34	trans-1,2-Dichloroethene	96	6.500	6.500	(0.796)	425001	10.0000	9.25459
37	Isopropyl ether	87	6.765	6.765	(0.828)	1296978	50.0000	42.9352
38	1,1-Dichloroethane	63	6.829	6.829	(0.836)	704161	10.0000	9.39457
39	Chloroprene	53	6.893	6.893	(0.844)	751906	10.0000	9.45312
42	2-Butanone	43	7.208	7.208	(0.883)	166672	40.0000	29.8541
45	cis-1,2-Dichloroethene	96	7.265	7.265	(0.890)	401951	10.0000	8.83349
44	Propionitrile	54	7.272	7.272	(0.891)	128821	100.000	78.5874
46	2,2-Dichloropropane	77	7.294	7.294	(0.893)	605621	10.0000	9.89513
47	Methacrylonitrile	41	7.401	7.401	(0.906)	656810	100.000	77.6917
48	Bromochloromethane	128	7.473	7.473	(0.915)	120094	10.0000	8.49066
49	Chloroform	83	7.480	7.480	(0.916)	606481	10.0000	9.26351
53	1,1,1-Trichloroethane	97	7.701	7.701	(0.943)	622038	10.0000	9.73399
52	Isobutanol	41	7.666	7.666	(0.939)	53007	200.000	128.804
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	637733	10.0000	9.50100
56	Carbon Tetrachloride	117	7.844	7.844	(0.961)	526042	10.0000	9.66309
58	1,2-Dichloroethane	62	7.973	7.973	(0.976)	277563	10.0000	8.41745
60	Benzene	78	7.994	7.994	(0.979)	1618881	10.0000	9.13444
62	n-Butanol	56	8.173	8.173	(1.001)	72948	200.000	121.308
63	Trichloroethene	95	8.445	8.445	(1.034)	415354	10.0000	9.19894
66	1,2-Dichloropropane	63	8.631	8.631	(1.057)	322682	10.0000	8.53873
68	1,4-Dioxane	88	8.674	8.674	(1.062)	44729	500.000	357.635
69	Dibromomethane	93	8.731	8.731	(1.069)	101940	10.0000	8.09552
70	Bromodichloromethane	83	8.802	8.802	(1.078)	334666	10.0000	8.67165
73	cis-1,3-Dichloropropene	75	9.117	9.117	(1.116)	402247	10.0000	8.03956
74	4-Methyl-2-pentanone	43	9.167	9.167	(1.123)	357588	40.0000	27.9970
76	Toluene	91	9.396	9.396	(1.151)	1726904	10.0000	8.91687
78	trans-1,3-Dichloropropene	75	9.489	9.489	(1.162)	280807	10.0000	7.62716
79	1,1,2-Trichloroethane	97	9.660	9.660	(1.183)	143747	10.0000	7.77424
80	2-Hexanone	43	9.768	9.768	(0.933)	235934	40.0000	33.1093
81	1,3-Dichloropropane	76	9.803	9.803	(0.936)	284831	10.0000	9.77175
82	Tetrachloroethene	164	9.825	9.825	(0.939)	336544	10.0000	11.2880
83	Dibromochloromethane	129	10.004	10.004	(0.956)	155274	10.0000	8.56578
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	130055	10.0000	9.43039
86	1-Chlorohexane	91	10.361	10.361	(0.990)	615811	10.0000	10.6054
88	Chlorobenzene	112	10.490	10.490	(1.002)	938181	10.0000	10.6560
89	1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	262779	10.0000	10.2130
90	Ethylbenzene	106	10.526	10.526	(1.005)	606834	10.0000	10.6532
91	m and p-Xylene	106	10.604	10.604	(1.013)	1480071	20.0000	21.3109
92	o-Xylene	106	10.940	10.940	(1.045)	672754	10.0000	10.3984
93	Styrene	104	10.940	10.940	(1.045)	949846	10.0000	9.88048
94	Bromoform	173	11.162	11.162	(1.066)	58824	10.0000	8.14375
95	isopropyl benzene	105	11.212	11.212	(0.903)	1784448	10.0000	12.1971
97	Cyclohexanone	55	11.362	11.362	(1.085)	110739	400.000	318.079
99	1,1,2,2-Tetrachloroethane	83	11.434	11.434	(0.921)	132670	10.0000	10.3551
101	1,2,3-Trichloropropane	110	11.512	11.512	(0.927)	38513	10.0000	11.0735
103	Bromobenzene	156	11.570	11.570	(0.931)	284601	10.0000	10.8319
102	n-Propylbenzene	120	11.555	11.555	(0.930)	531644	10.0000	11.8297
105	2-Chlorotoluene	126	11.691	11.691	(0.941)	391286	10.0000	11.6287
104	1,3,5-Trimethylbenzene	105	11.670	11.670	(0.940)	1502143	10.0000	11.8598
106	4-Chlorotoluene	126	11.777	11.777	(0.948)	383138	10.0000	11.4713
107	tert-Butylbenzene	119	11.991	11.991	(0.965)	1571222	10.0000	12.0430
108	1,2,4-Trimethylbenzene	105	12.027	12.027	(0.968)	1426862	10.0000	11.4764
109	sec-Butylbenzene	134	12.184	12.184	(0.981)	430861	10.0000	12.0071
110	4-Isopropyltoluene	119	12.285	12.285	(0.989)	1698229	10.0000	11.8629

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
111 1,3-Dichlorobenzene	146	12.370	12.370	(0.996)	626294	10.0000	11.0301
113 1,4-dichlorobenzene	146	12.449	12.449	(1.002)	584966	10.0000	10.6935
115 n-Butylbenzene	91	12.685	12.685	(1.021)	1644292	10.0000	11.5224
116 1,2-Dichlorobenzene	146	12.842	12.842	(1.034)	468322	10.0000	10.2699
117 1,2-Dibromo-3-chloropropane	157	13.672	13.672	(1.101)	13969	10.0000	7.60811
118 1,2,4-Trichlorobenzene	180	14.723	14.723	(1.185)	270389	10.0000	8.77717
119 Hexachlorobutadiene	225	14.887	14.887	(1.199)	221339	10.0000	10.1685
120 Naphthalene	128	15.137	15.137	(1.219)	328181	10.0000	7.70920
121 1,2,3-Trichlorobenzene	180	15.502	15.502	(1.248)	195081	10.0000	8.15089

QC Flag Legend

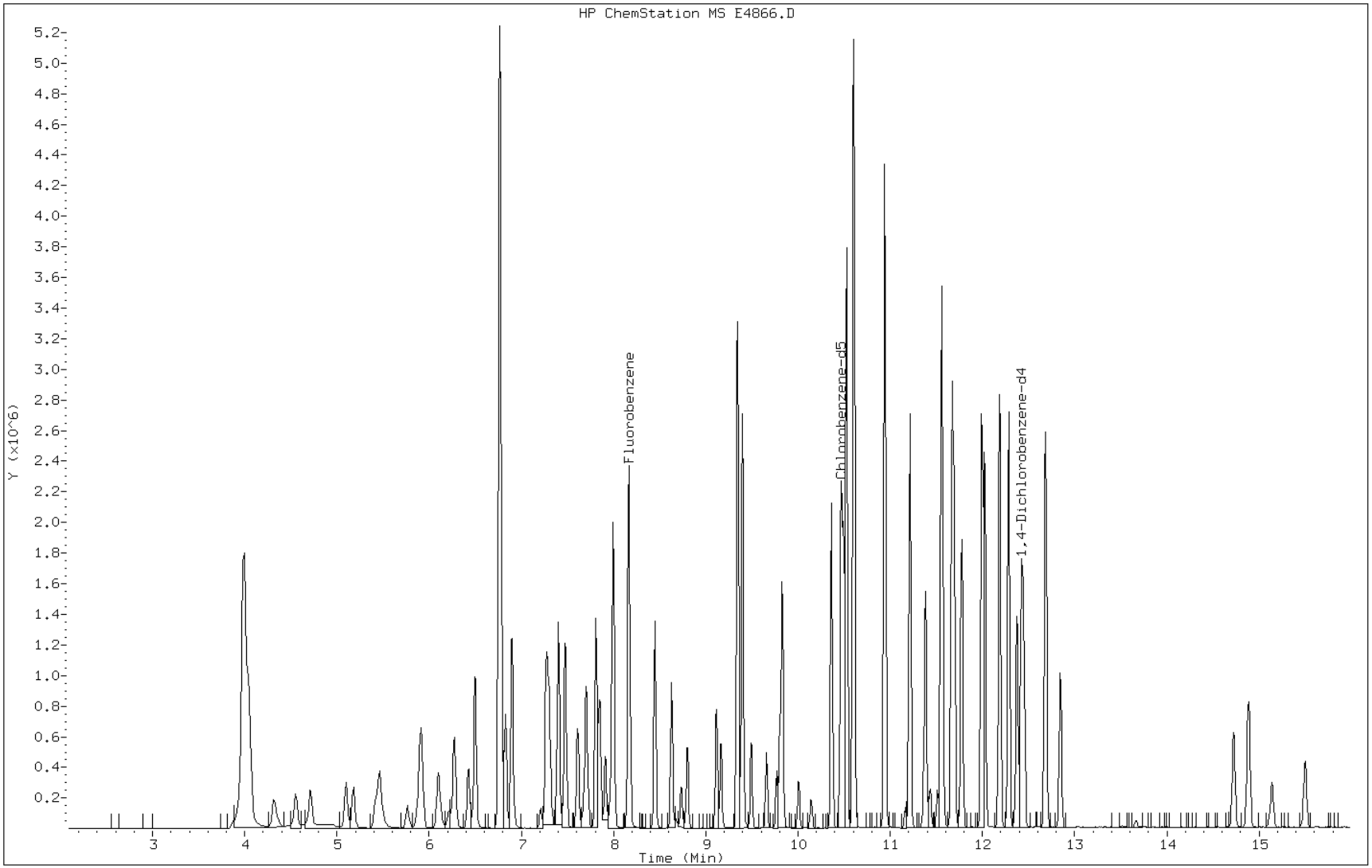
Q - Qualifier signal failed the ratio test.

Data File: E4866.D

Date: 30-NOV-2011 18:58

Client ID: Instrument: E.i

Sample Info: CCV,,M 1129891/1131966 Operator: TINKHAMS



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: CCV 280-98252/3 Calibration Date: 11/30/2011 19:17

Instrument ID: MSV_E Calib Start Date: 11/28/2011 13:31

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/28/2011 15:06

Lab File ID: E4867.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.0908	0.0648		7.14	10.0	-28.6	50.0
Ethylene oxide	Ave	0.0058	0.0051		1110	1250	-11.0	50.0
Dichlorofluoromethane	Ave	0.5605	0.4882		8.71	10.0	-12.9	50.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.3188	0.2688		8.43	10.0	-15.7	50.0
Ethyl ether	Ave	0.1396	0.1125		8.06	10.0	-19.4	35.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.4572	0.3803		8.32	10.0	-16.8	50.0
1,1,2-Trichlorotrifluoroethane	Ave	0.2453	0.1946		7.93	10.0	-20.7	50.0
2-Propanol	Ave	0.0050	0.0038		152	200	-23.8	50.0
Methyl acetate	Ave	0.0613	0.0482		39.3	50.0	-21.4	50.0
Allyl chloride	Ave	0.4754	0.3990		8.39	10.0	-16.1	35.0
Carbon disulfide	Ave	1.144	0.9286		8.12	10.0	-18.8	50.0
Methyl tert-butyl ether	Ave	0.3984	0.3203		8.04	10.0	-19.6	35.0
Hexane	Ave	2.444	2.065		8.45	10.0	-15.5	35.0
Vinyl acetate	Ave	0.2149	0.1794		16.7	20.0	-16.5	50.0
Tert-butyl ethyl ether	Ave	0.5574	0.4759		42.7	50.0	-14.6	35.0
Ethyl acetate	Ave	0.0804	0.0629		15.6	20.0	-21.8	50.0
Tetrahydrofuran	Ave	0.0239	0.0183		15.3	20.0	-23.6	50.0
Cyclohexane	Ave	0.6239	0.4853		7.78	10.0	-22.2	35.0
Tert-amyl methyl ether	Ave	0.4359	0.3603		41.3	50.0	-17.3	35.0
2-Pentanone	Ave	0.0566	0.0426		30.1	40.0	-24.8	50.0
Methyl methacrylate	Ave	0.0269	0.0201		14.9	20.0	-25.3	35.0
Methylcyclohexane	Ave	0.4939	0.3928		7.95	10.0	-20.5	35.0
2-Chloroethyl vinyl ether	Ave	0.0648	0.0531		8.19	10.0	-18.1	50.0
2-Nitropropane	Ave	0.0226	0.0155		6.84	10.0	-31.6	50.0
Ethyl methacrylate	Ave	0.6772	0.5819		17.2	20.0	-14.1	35.0
Tetrahydrothiophene	Ave	0.3439	0.2633		7.65	10.0	-23.5	50.0
cis-1,4-Dichloro-2-butene	Ave	0.1010	0.0908		9.00	10.0	-10.0	50.0
trans-1,4-Dichloro-2-butene	Ave	0.0996	0.0896		8.99	10.0	-10.1	50.0
1,2,3-Trimethylbenzene	Ave	3.292	3.313		10.1	10.0	0.6	35.0
Dibromofluoromethane (Surr)	Ave	0.2074	0.1912		12.0	13.0	-7.8	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1687	0.1502		11.6	13.0	-11.0	35.0
Toluene-d8 (Surr)	Ave	4.683	4.957		13.8	13.0	5.9	35.0
4-Bromofluorobenzene (Surr)	Ave	1.078	1.106		13.3	13.0	2.6	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4867.D
Lab Smp Id: CCV
Inj Date : 30-NOV-2011 19:17
Operator : TINKHAMS Inst ID: E.i
Smp Info : CCV,,S 1117687/1113121
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\8260B-H2O.m
Meth Date : 30-Nov-2011 19:48 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1882799	12.5000	
* 87 Chlorobenzene-d5	119	10.468	10.468	(1.000)	368072	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.420	12.420	(1.000)	456035	12.5000	
$ 51 Dibromofluoromethane (Surr)	111	7.608	7.608	(0.932)	374437	10.0000	11.9877
$ 57 1,2-Dichloroethane-d4	65	7.908	7.908	(0.968)	294049	10.0000	11.5694
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	1897517	10.0000	13.7612
$ 98 4-Bromofluorobenzene (Surr)	95	11.383	11.383	(0.917)	524471	10.0000	13.3326
7 1,2-Dichlorotetrafluoroethane	85	4.483	4.483	(0.549)	97633	10.0000	7.13625
11 Ethylene Oxide	43	5.041	5.041	(0.617)	964269	1250.00	1111.99
14 Dichlorofluoromethane	67	5.334	5.334	(0.653)	735264	10.0000	8.70874
17 1,2-dichloro-1,1,2-trifluoro	117	5.586	5.586	(0.684)	404798	10.0000	8.42872
18 Ethyl Ether	59	5.614	5.614	(0.687)	169403	10.0000	8.05855
19 2,2-dichloro-1,1,1-trifluoro	83	5.628	5.628	(0.689)	572798	10.0000	8.31702
21 Trichlorotrifluoroethane	151	5.865	5.865	(0.718)	293101	10.0000	7.93121
23 2-propanol	45	5.879	5.879	(0.720)	113874	200.000	152.363(Q)
27 Methyl Acetate	43	6.114	6.114	(0.749)	362867	50.0000	39.3008
28 Allyl Chloride	41	6.171	6.171	(0.756)	600969	10.0000	8.39249(Q)
29 Carbon Disulfide	76	6.199	6.199	(0.759)	1398743	10.0000	8.12070
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	482506	10.0000	8.03997
35 Hexane	57	6.664	6.664	(0.637)	607998	10.0000	8.44822
36 Vinyl acetate	43	6.757	6.757	(0.828)	540419	20.0000	16.6967
40 ETBE	59	7.050	7.050	(0.863)	3584210	50.0000	42.6894

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
41 Ethyl Acetate	43	7.193	7.193	(0.881)	189327	20.0000	15.6332
43 2-Butanol	45	7.243	7.243	(0.887)	187305	300.000	210.470
50 Tetrahydrofuran	42	7.508	7.508	(0.919)	55027	20.0000	15.2745
54 Cyclohexane	56	7.780	7.780	(0.953)	731043	10.0000	7.77858
59 TAME	73	7.973	7.973	(0.976)	2713273	50.0000	41.3266
64 2-Pentanone	43	8.480	8.480	(1.039)	256586	40.0000	30.0721
67 Methyl Cyclohexane	55	8.638	8.638	(1.058)	591617	10.0000	7.95224
65 Methyl Methacrylate	100	8.566	8.566	(1.049)	60499	20.0000	14.9454
72 2-nitropropane	41	8.931	8.931	(1.094)	23330	10.0000	6.84138
71 2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	79932	10.0000	8.18536
77 Ethyl methacrylate	69	9.467	9.467	(0.904)	342674	20.0000	17.1844
84 Tetrahydrothiophene	60	10.053	10.053	(0.960)	77516	10.0000	7.65443
96 cis-1,4-dichloro-2-butene	53	11.240	11.240	(0.905)	33139	10.0000	8.99725
100 t-1,4-Dichloro-2-butene	53	11.469	11.469	(0.923)	32673	10.0000	8.99158
114 1,2,3-Trimethylbenzene	105	12.442	12.442	(1.002)	1208613	10.0000	10.0642

QC Flag Legend

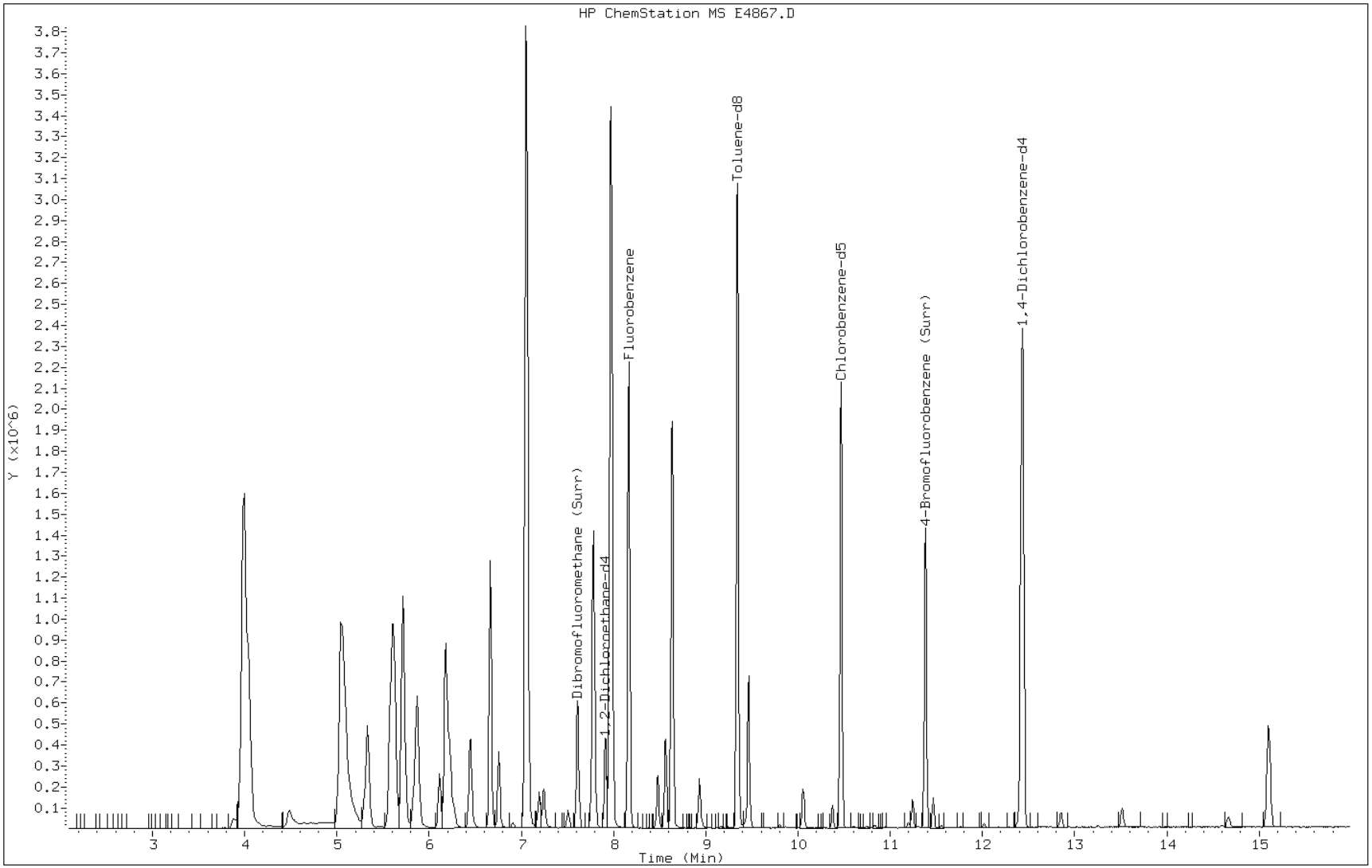
Q - Qualifier signal failed the ratio test.

Data File: E4867.D

Date: 30-NOV-2011 19:17

Client ID: Instrument: E.i

Sample Info: CCV,,S 1117687/1113121 Operator: TINKHAMS



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: ICV 280-94480/9 Calibration Date: 11/01/2011 19:59

Instrument ID: MSV_MS1 Calib Start Date: 11/01/2011 17:19

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 11/01/2011 19:19

Lab File ID: ms1784.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.5794	0.6366		22.0	20.0	9.9	35.0
Xylenes, Total	Ave	5.113	5.572		32.7	30.0	9.0	35.0
Dichlorodifluoromethane	Ave	0.5102	0.5140		10.1	10.0	0.7	55.0
Chloromethane	Ave	0.7980	0.7754	0.1000	9.72	10.0	-2.8	35.0
Vinyl chloride	Ave	0.8232	0.7843		9.53	10.0	-4.7	35.0
Bromomethane	Ave	0.5239	0.5035		9.61	10.0	-3.9	35.0
Chloroethane	Ave	0.4485	0.4419		9.85	10.0	-1.5	35.0
Trichlorofluoromethane	Ave	0.8743	0.8256		9.44	10.0	-5.6	50.0
Acrolein	Ave	0.0232	0.0218		94.1	100	-5.9	55.0
Acetone	Ave	0.0381	0.0412		43.3	40.0	8.2	55.0
Iodomethane	Ave	0.7267	0.8567		11.8	10.0	17.9	35.0
Methylene Chloride	Ave	0.4710	0.5298		11.2	10.0	12.5	35.0
Acrylonitrile	Ave	0.0464	0.0496		107	100	7.0	55.0
trans-1,2-Dichloroethene	Ave	0.5705	0.6394		11.2	10.0	12.1	35.0
1,1-Dichloroethane	Ave	0.9432	1.041	0.1000	11.0	10.0	10.4	35.0
2-Butanone (MEK)	Ave	0.0541	0.0571		42.2	40.0	5.5	55.0
cis-1,2-Dichloroethene	Ave	0.5895	0.6338		10.8	10.0	7.5	35.0
2,2-Dichloropropane	Ave	0.7456	0.7922		10.6	10.0	6.3	35.0
Bromochloromethane	Ave	0.1920	0.2077		10.8	10.0	8.2	35.0
Chloroform	Ave	0.8806	0.9597		10.9	10.0	9.0	35.0
1,1,1-Trichloroethane	Ave	0.8649	0.9126		10.6	10.0	5.5	35.0
1,1-Dichloropropene	Ave	0.8096	0.8550		10.6	10.0	5.6	35.0
Carbon tetrachloride	Ave	0.7098	0.7689		10.8	10.0	8.3	35.0
1,2-Dichloroethane	Ave	0.4176	0.4602		11.0	10.0	10.2	35.0
Benzene	Ave	2.183	2.399		11.0	10.0	9.9	35.0
Trichloroethene	Ave	0.6189	0.6690		10.8	10.0	8.1	35.0
1,2-Dichloropropane	Ave	0.4423	0.4855		11.0	10.0	9.8	35.0
Dibromomethane	Ave	0.1708	0.1749		10.2	10.0	2.4	35.0
Bromodichloromethane	Ave	0.4816	0.5461		11.3	10.0	13.4	35.0
cis-1,3-Dichloropropene	Ave	2.730	3.176		11.6	10.0	16.4	35.0
4-Methyl-2-pentanone	Ave	0.5529	0.6226		45.0	40.0	12.6	55.0
Toluene	Ave	2.325	2.480		10.7	10.0	6.7	35.0
trans-1,3-Dichloropropene	Ave	0.3912	0.4561		11.7	10.0	16.6	35.0
1,1,2-Trichloroethane	Ave	0.2137	0.2357		11.0	10.0	10.3	35.0
2-Hexanone	Ave	0.0764	0.0819		42.9	40.0	7.3	55.0
1,3-Dichloropropane	Ave	1.969	2.186		11.1	10.0	11.0	35.0
Tetrachloroethene	Ave	2.356	2.468		10.5	10.0	4.7	35.0
Dibromochloromethane	Ave	1.229	1.437		11.7	10.0	16.9	35.0
1,2-Dibromoethane (EDB)	Ave	0.9455	1.064		11.3	10.0	12.5	35.0
1-Chlorohexane	Ave	3.888	4.006		10.3	10.0	3.0	35.0
Chlorobenzene	Ave	6.742	7.299	0.3000	10.8	10.0	8.3	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: ICV 280-94480/9 Calibration Date: 11/01/2011 19:59

Instrument ID: MSV_MS1 Calib Start Date: 11/01/2011 17:19

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 11/01/2011 19:19

Lab File ID: ms1784.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1,1,2-Tetrachloroethane	Ave	2.061	2.285		11.1	10.0	10.9	35.0
Ethylbenzene	Ave	4.378	4.628		10.6	10.0	5.7	35.0
m-Xylene & p-Xylene	Ave	5.194	5.720		22.0	20.0	10.1	35.0
Styrene	Ave	6.950	7.739		11.1	10.0	11.3	35.0
o-Xylene	Ave	4.953	5.278		10.7	10.0	6.6	35.0
Bromoform	Ave	0.5467	0.6329	0.1000	11.6	10.0	15.8	35.0
Isopropylbenzene	Ave	8.694	9.831		11.3	10.0	13.1	35.0
Cyclohexanone	Ave	0.0205	0.0241		294	250	17.6	35.0
1,1,2,2-Tetrachloroethane	Ave	0.7022	0.7603	0.3000	10.8	10.0	8.3	35.0
1,2,3-Trichloropropane	Ave	0.2118	0.2319		10.9	10.0	9.5	35.0
n-Propylbenzene	Ave	2.866	2.859		9.98	10.0	-0.2	35.0
Bromobenzene	Ave	1.847	1.893		10.2	10.0	2.5	35.0
1,3,5-Trimethylbenzene	Ave	7.611	8.015		10.5	10.0	5.3	35.0
2-Chlorotoluene	Ave	2.239	2.251		10.1	10.0	0.5	35.0
4-Chlorotoluene	Ave	2.214	2.298		10.4	10.0	3.8	35.0
tert-Butylbenzene	Ave	7.879	8.148		10.3	10.0	3.4	35.0
1,2,4-Trimethylbenzene	Ave	7.552	7.826		10.4	10.0	3.6	35.0
sec-Butylbenzene	Ave	2.306	2.336		10.1	10.0	1.3	35.0
4-Isopropyltoluene	Ave	8.471	8.751		10.3	10.0	3.3	35.0
1,3-Dichlorobenzene	Ave	3.814	3.947		10.3	10.0	3.5	35.0
1,4-Dichlorobenzene	Ave	3.810	3.863		10.1	10.0	1.4	35.0
n-Butylbenzene	Ave	8.182	8.173		9.99	10.0	-0.1	35.0
1,2-Dichlorobenzene	Ave	2.950	3.150		10.7	10.0	6.8	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0949	0.1053		11.1	10.0	11.0	55.0
1,2,4-Trichlorobenzene	Ave	1.990	2.138		10.7	10.0	7.4	35.0
Hexachlorobutadiene	Ave	1.540	1.525		9.90	10.0	-1.0	35.0
Naphthalene	Ave	2.342	2.667		11.4	10.0	13.8	35.0
1,2,3-Trichlorobenzene	Ave	1.498	1.614		10.8	10.0	7.7	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1784.D
Lab Smp Id: ICV
Inj Date : 01-NOV-2011 19:59
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : ICV,, MA
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:26 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41 Cal File: ms1801.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVMA-.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	69 Fluorobenzene	96	8.340	8.340	(1.000)	1463700	12.5000		
*	95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	294456	12.5000		
*	121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	413541	12.5000		(Q)
M	1 1,2-Dichloroethene (total)	96				1490951	21.9608	21.9608	
M	2 Xylene (total)	106				3938020	32.6814	32.6814	
M	3 Trihalomethane (total)	100				2250864	45.5105	45.5105	
M	4 1,3-Dichloropropene (total)	100				1282217	23.2947	23.2946	
	5 dichlorodifluoromethane	85	4.597	4.597	(0.551)	601921	10.0745	10.0745	
	7 Chloromethane	50	4.820	4.834	(0.578)	907953	9.71646	9.71646	
	8 Vinyl Chloride	62	4.988	4.988	(0.598)	918389	9.52794	9.52794	
	10 Bromomethane	94	5.365	5.365	(0.643)	589550	9.61016	9.61016	
	11 Chloroethane	64	5.435	5.435	(0.652)	517440	9.85248	9.85248	
	14 Trichlorofluoromethane	101	5.686	5.714	(0.682)	966747	9.44272	9.44272	
	19 Acrolein	56	5.993	5.993	(0.719)	255239	94.1246	94.1246	
	20 Acetone	43	6.091	6.091	(0.730)	192839	43.2610	43.2610	
	27 Iodomethane	142	6.328	6.328	(0.759)	1003150	11.7887	11.7887	
	33 Methylene Chloride	84	6.482	6.482	(0.777)	620313	11.2479	11.2479	
	34 Acrylonitrile	53	6.622	6.622	(0.794)	580982	107.034	107.034	
	36 trans-1,2-Dichloroethene	96	6.720	6.719	(0.806)	748753	11.2077	11.2077	
	44 1,1-Dichloroethane	63	7.027	7.027	(0.843)	1218816	11.0360	11.0360	
	52 cis-1,2-Dichloroethene	96	7.460	7.460	(0.895)	742198	10.7530	10.7530	
	50 2-Butanone	43	7.390	7.390	(0.886)	267460	42.2137	42.2137	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
53	2,2-Dichloropropane	77	7.502	7.502	(0.900)	927588	10.6251	10.6251
55	Bromochloromethane	128	7.669	7.669	(0.920)	243261	10.8191	10.8191
56	Chloroform	83	7.669	7.669	(0.920)	1123799	10.8987	10.8987
60	1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	1068568	10.5510	10.5510
62	1,1-Dichloropropene	75	8.004	8.004	(0.960)	1001171	10.5613	10.5613
63	Carbon Tetrachloride	117	8.046	8.046	(0.965)	900328	10.8327	10.8327
67	Benzene	78	8.186	8.186	(0.982)	2809260	10.9925	10.9925
65	1,2-Dichloroethane	62	8.144	8.144	(0.977)	538909	11.0204	11.0204
71	Trichloroethene	130	8.619	8.619	(1.033)	783390	10.8097	10.8097
74	1,2-Dichloropropane	63	8.787	8.786	(1.054)	568440	10.9762	10.9762
77	Dibromomethane	93	8.884	8.884	(1.065)	204826	10.2440	10.2440
78	Bromodichloromethane	83	8.940	8.940	(1.072)	639485	11.3398	11.3398
81	cis-1,3-Dichloropropene	75	9.247	9.247	(0.873)	748206	11.6366	11.6366
82	4-Methyl-2-pentanone	43	9.289	9.289	(0.877)	586672	45.0429	45.0429
84	Toluene	91	9.527	9.541	(1.142)	2903747	10.6665	10.6665
86	trans-1,3-Dichloropropene	75	9.611	9.610	(1.152)	534011	11.6581	11.6581
87	1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	276034	11.0297	11.0297
89	1,3-Dichloropropane	76	9.918	9.918	(0.937)	514840	11.0975	11.0975
90	Tetrachloroethene	164	9.974	9.974	(0.942)	581323	10.4737	10.4737
88	2-Hexanone	43	9.890	9.890	(1.186)	383803	42.9058	42.9058
91	Dibromochloromethane	129	10.127	10.127	(0.956)	338484	11.6944	11.6944
93	1,2-Dibromoethane	107	10.267	10.267	(0.970)	250636	11.2528	11.2528
94	1-Chlorohexane	91	10.490	10.490	(0.991)	943579	10.3025	10.3025
96	Chlorobenzene	112	10.616	10.616	(1.003)	1719493	10.8261	10.8261
97	1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	538352	11.0872	11.0872
98	Ethylbenzene	106	10.644	10.644	(1.005)	1090254	10.5728	10.5728(Q)
99	m and p-Xylene	106	10.728	10.728	(1.013)	2694756	22.0255	22.0255(Q)
101	o-Xylene	106	11.063	11.063	(1.045)	1243264	10.6559	10.6559
100	Styrene	104	11.049	11.049	(1.044)	1822977	11.1344	11.1344
102	Bromoform	173	11.273	11.272	(1.065)	149096	11.5776	11.5776
103	isopropyl benzene	105	11.328	11.328	(0.904)	3252278	11.3067	11.3067
105	Cyclohexanone	55	11.454	11.454	(1.082)	141675	293.956	293.956
107	1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.920)	251520	10.8270	10.8270
111	Bromobenzene	156	11.678	11.677	(0.932)	626216	10.2497	10.2497
109	1,2,3-Trichloropropane	110	11.608	11.608	(0.926)	76714	10.9489	10.9489
110	n-Propylbenzene	120	11.664	11.664	(0.931)	946006	9.97618	9.97618(Q)
112	1,3,5-Trimethylbenzene	105	11.775	11.775	(0.940)	2651474	10.5304	10.5304
113	2-Chlorotoluene	126	11.803	11.803	(0.942)	744602	10.0525	10.0525
114	4-Chlorotoluene	126	11.887	11.887	(0.949)	760208	10.3790	10.3790
115	tert-Butylbenzene	119	12.097	12.110	(0.965)	2695610	10.3409	10.3409
116	1,2,4-Trimethylbenzene	105	12.124	12.124	(0.968)	2589185	10.3631	10.3631
118	sec-Butylbenzene	134	12.292	12.292	(0.981)	772831	10.1292	10.1292(Q)
119	4-Isopropyltoluene	119	12.390	12.390	(0.989)	2894989	10.3303	10.3303
120	1,3-Dichlorobenzene	146	12.474	12.474	(0.996)	1305633	10.3461	10.3461
122	1,4-dichlorobenzene	146	12.543	12.543	(1.001)	1277851	10.1385	10.1384
124	n-Butylbenzene	91	12.781	12.781	(1.020)	2703877	9.98943	9.98943
126	1,2-Dichlorobenzene	146	12.948	12.948	(1.033)	1042258	10.6786	10.6786
127	1,2-Dibromo-3-chloropropane	157	13.759	13.758	(1.098)	34849	11.0981	11.0980
129	1,2,4-Trichlorobenzene	180	14.834	14.834	(1.184)	707375	10.7442	10.7442
130	Hexachlorobutadiene	225	15.002	15.001	(1.197)	504595	9.90371	9.90371
131	Naphthalene	128	15.239	15.239	(1.216)	882198	11.3838	11.3838
132	1,2,3-Trichlorobenzene	180	15.602	15.602	(1.245)	533846	10.7715	10.7715

QC Flag Legend

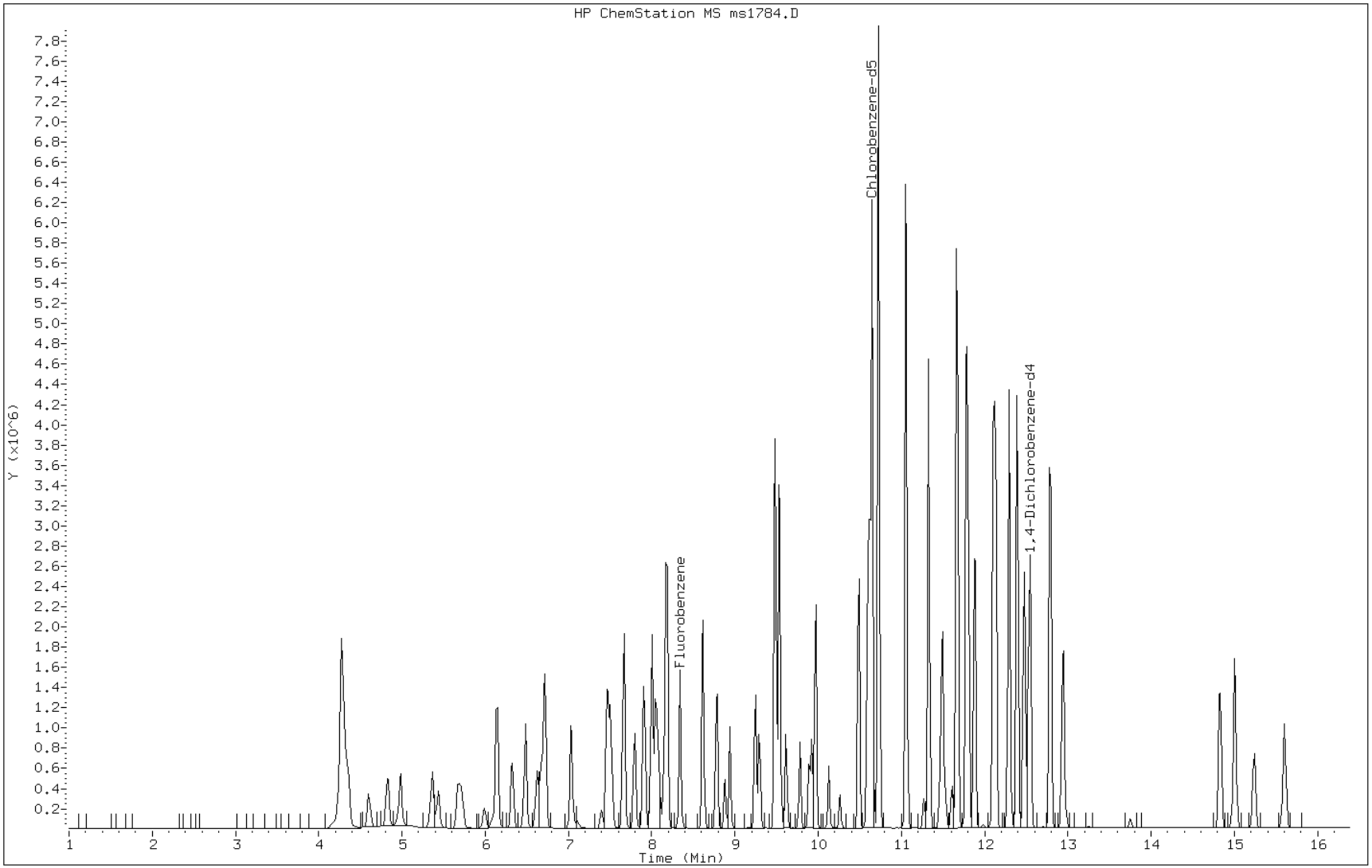
Q - Qualifier signal failed the ratio test.

Data File: ms1784.D

Date: 01-NOV-2011 19:59

Client ID: Instrument: GCMS1.i

Sample Info: ICV,, MA Operator: STOLTZK



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: ICV 280-94480/18 Calibration Date: 11/01/2011 23:20

Instrument ID: MSV_MS1 Calib Start Date: 11/01/2011 21:00

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 11/01/2011 23:40

Lab File ID: ms1794.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.2506	0.6687		26.7	10.0	166.8*	50.0
Ethylene oxide	Ave	0.0081	0.0098		1510	1250	21.1	55.0
Dichlorofluoromethane	Ave	1.090	1.103		10.1	10.0	1.2	55.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.6134	0.5276		8.60	10.0	-14.0	55.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.8537	0.8239		9.65	10.0	-3.5	55.0
Ethyl ether	Ave	0.2540	0.2601		10.2	10.0	2.4	35.0
Propene oxide	Ave	0.0310	0.0364		588	500	17.7	
1,1,2-Trichlorotrifluoroethane	Ave	0.4524	0.4303		9.51	10.0	-4.9	55.0
2-Propanol	Ave	0.0084	0.0088		209	200	4.3	55.0
Methyl acetate	Ave	0.0971	0.1042		53.6	50.0	7.2	55.0
Allyl chloride	Ave	0.7315	0.7186		9.82	10.0	-1.8	35.0
Carbon disulfide	Ave	2.198	2.072		9.43	10.0	-5.7	55.0
Methyl tert-butyl ether	Ave	0.7099	0.7374		10.4	10.0	3.9	35.0
Hexane	Ave	4.623	4.070		8.80	10.0	-12.0	35.0
Vinyl acetate	Ave	0.3578	0.2333		13.0	20.0	-34.8	55.0
Tert-butyl ethyl ether	Ave	1.077	1.134		52.6	50.0	5.3	35.0
Ethyl acetate	Ave	0.1622	0.1562		19.3	20.0	-3.7	55.0
Tetrahydrofuran	Ave	0.0364	0.0363		20.0	20.0	-0.2	55.0
Cyclohexane	Ave	1.003	0.9033		9.00	10.0	-10.0	35.0
Tert-amyl methyl ether	Ave	0.8522	0.8809		51.7	50.0	3.4	35.0
2-Pentanone	Ave	0.0887	0.1352		61.0	40.0	52.5	55.0
Methyl methacrylate	Ave	0.0465	0.0484		20.8	20.0	4.0	35.0
Methylcyclohexane	Ave	0.8104	0.6758		8.34	10.0	-16.6	35.0
2-Chloroethyl vinyl ether	Lin1	0.3856	0.4291		9.50	10.0	-5.0	55.0
2-Nitropropane	Lin1	0.1669	0.1636		8.86	10.0	-11.4	55.0
Ethyl methacrylate	Lin1	1.270	1.289		18.0	20.0	-10.1	35.0
Tetrahydrothiophene	Lin1	0.5290	0.5140		9.21	10.0	-7.9	55.0
cis-1,4-Dichloro-2-butene	Ave	0.1652	0.1826		11.1	10.0	10.6	55.0
trans-1,4-Dichloro-2-butene	Ave	0.1401	0.1645		11.7	10.0	17.4	55.0
1,2,3-Trimethylbenzene	Ave	6.943	6.317		9.10	10.0	-9.0	35.0
Dibromofluoromethane (Surr)	Ave	0.4977	0.4634		9.31	10.0	-6.9	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3905	0.3714		9.51	10.0	-4.9	35.0
Toluene-d8 (Surr)	Ave	11.35	10.04		8.85	10.0	-11.5	35.0
4-Bromofluorobenzene (Surr)	Ave	2.274	2.026		8.91	10.0	-10.9	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1794.D
Lab Smp Id: ICV
Inj Date : 01-NOV-2011 23:20
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : ICV,, SA
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:27 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41 Cal File: ms1801.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICVSA.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
* 69 Fluorobenzene	96	8.340	8.339	(1.000)	1412758	12.5000	
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	277665	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	383534	12.5000	(Q)
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	523702	9.31067	9.31067
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	419699	9.51051	9.51051
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	2231109	8.84978	8.84978
$ 106 4-Bromofluorobenzene (Surr)	95	11.496	11.482	(0.918)	621687	8.91017	8.91017
6 1,2-Dichlorotetrafluoroethane	85	4.764	4.750	(0.571)	755746	26.6793	26.6793
9 Ethylene Oxide	43	5.309	5.295	(0.637)	1388359	1513.68	1513.68
12 Dichlorofluoromethane	67	5.574	5.574	(0.668)	1246855	10.1176	10.1176
15 1,2-dichloro-1,1,2-trifluoroe	117	5.826	5.825	(0.699)	596334	8.60146	8.60146
17 Ethyl Ether	59	5.854	5.853	(0.702)	293941	10.2396	10.2396
16 2,2-dichloro-1,1,1-trifluoroe	83	5.854	5.853	(0.702)	931208	9.65075	9.65075
18 Propylene Oxide	58	5.951	5.951	(0.714)	2058065	588.285	588.285
21 Trichlorotrifluoroethane	151	6.105	6.105	(0.732)	486275	9.51044	9.51044
22 2-propanol	45	6.105	6.091	(0.732)	198996	208.660	208.660
28 Methyl Acetate	43	6.328	6.328	(0.759)	588605	53.6232	53.6232
29 Allyl Chloride	41	6.398	6.384	(0.767)	812192	9.82373	9.82373
31 Carbon Disulfide	76	6.440	6.426	(0.772)	2341661	9.42752	9.42752
35 Methyl t-butyl ether	73	6.678	6.677	(0.801)	833462	10.3879	10.3879
40 Hexane	57	6.887	6.887	(0.650)	904061	8.80440	8.80440
42 Vinyl acetate	43	6.957	6.957	(0.834)	527302	13.0377	13.0377

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
48	ETBE	59	7.264	7.250	(0.871)	6408847	52.6425	52.6425
49	Ethyl Acetate	43	7.390	7.376	(0.886)	353103	19.2644	19.2644
57	Tetrahydrofuran	42	7.697	7.697	(0.923)	82064	19.9658	19.9658
61	Cyclohexane	56	7.990	7.990	(0.958)	1020910	9.00456	9.00456
66	TAME	73	8.158	8.158	(0.978)	4978144	51.6873	51.6873
72	2-Pentanone	43	8.633	8.619	(1.035)	611137	60.9813	60.9813
75	Methyl Cyclohexane	55	8.814	8.814	(1.057)	763841	8.34004	8.34004
73	Methyl Methacrylate	100	8.717	8.716	(1.045)	109447	20.8079	20.8079
79	2-nitropropane	41	9.066	9.052	(0.856)	36336	8.85710	8.85710
80	2-Chloroethyl vinyl ether	63	9.066	9.066	(0.856)	95310	9.49776	9.49776
85	Ethyl methacrylate	69	9.597	9.596	(0.906)	572740	17.9865	17.9865
92	Tetrahydrothiophene	60	10.183	10.183	(0.962)	114182	9.20739	9.20739
104	cis-1,4-dichloro-2-butene	53	11.342	11.342	(0.905)	56034	11.0560	11.0560
108	t-1,4-Dichloro-2-butene	53	11.566	11.552	(0.923)	50471	11.7385	11.7385
123	1,2,3-Trimethylbenzene	105	12.543	12.543	(1.001)	1938164	9.09769	9.09769

QC Flag Legend

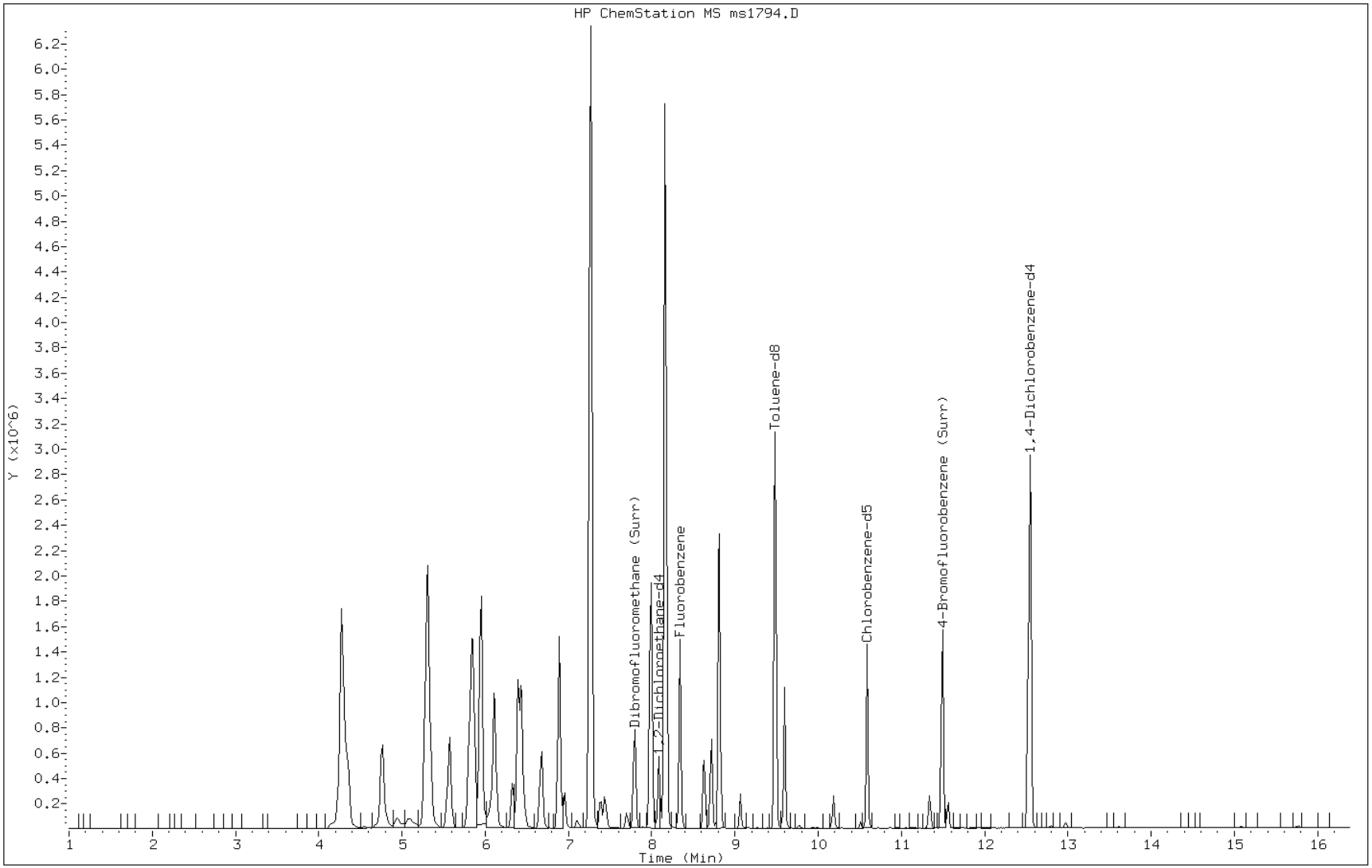
Q - Qualifier signal failed the ratio test.

Data File: ms1794.D

Date: 01-NOV-2011 23:20

Client ID: Instrument: GCMS1.i

Sample Info: ICV,, SA Operator: STOLTZK



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: ICV 280-94525/3 Calibration Date: 11/02/2011 08:26

Instrument ID: MSV_MS1 Calib Start Date: 11/01/2011 17:19

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 11/01/2011 19:19

Lab File ID: ms1807.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloroethene	Ave	0.4630	0.5356		11.6	10.0	15.7	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110211.b\ms1807.D
Lab Smp Id: ICV
Inj Date : 02-NOV-2011 08:26
Operator : STOLTZK   Inst ID: GCMS1.i
Smp Info : ICV,, MA 524 12
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\110211.b\8260B-H2O.m
Meth Date : 02-Nov-2011 16:08 stoltzk   Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41   Cal File: ms1801.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: ICVMA11DCE.sub
Target Version: 4.14
Processing Host: DENPC371

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 69 Fluorobenzene	96	8.340	8.339	(1.000)	1319747	12.5000		
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	265958	12.5000		
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	393912	12.5000		(Q)
23 1,1-Dichloroethene	96	6.147	6.147	(0.737)	565484	11.5669	11.5669	

QC Flag Legend

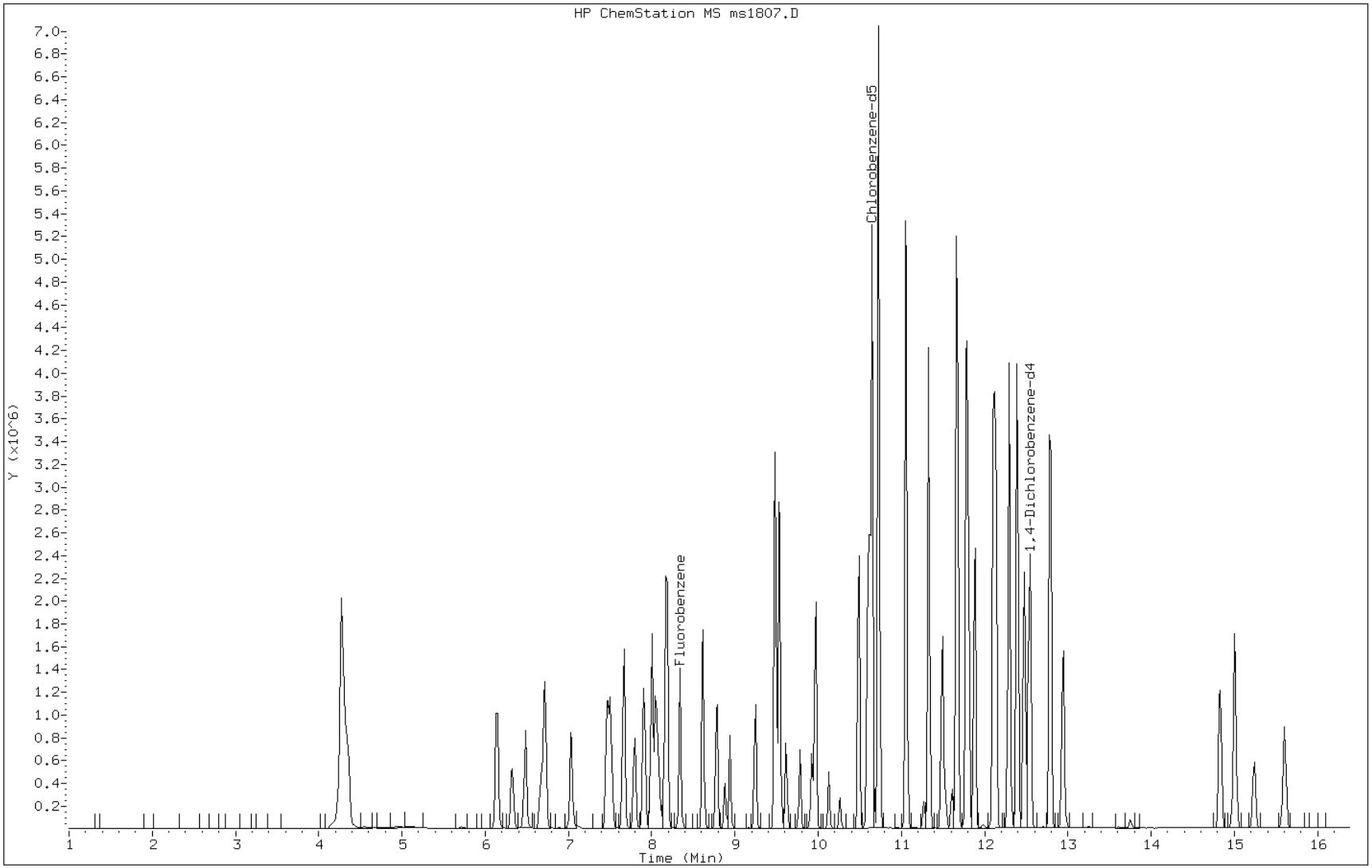
Q - Qualifier signal failed the ratio test.

Data File: ms1807.D

Date: 02-NOV-2011 08:26

Client ID: Instrument: GCMS1.i

Sample Info: ICV,, MA 524 12 Operator: STOLTZK



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: CCV 280-97860/2 Calibration Date: 11/28/2011 17:42

Instrument ID: MSV_MS1 Calib Start Date: 11/01/2011 17:19

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 11/01/2011 19:19

Lab File ID: ms2834.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethene, Total	Ave	0.5794	0.5964		20.6	20.0	2.9	35.0
Xylenes, Total	Ave	5.113	5.496		32.2	30.0	7.5	35.0
Dichlorodifluoromethane	Ave	0.5102	0.5070		9.94	10.0	-0.6	50.0
Chloromethane	Ave	0.7980	0.7329	0.1000	9.18	10.0	-8.2	35.0
Vinyl chloride	Ave	0.8232	0.7456		9.06	10.0	-9.4	20.0
Bromomethane	Ave	0.5239	0.4655		8.89	10.0	-11.1	35.0
Chloroethane	Ave	0.4485	0.4664		10.4	10.0	4.0	35.0
Trichlorofluoromethane	Ave	0.8743	0.8854		10.1	10.0	1.3	50.0
Ethanol	Ave	0.0014	0.0014		504	500	0.9	50.0
Acetone	Ave	0.0381	0.0322		33.8	40.0	-15.5	50.0
1,1-Dichloroethene	Ave	0.4630	0.4615		9.97	10.0	-0.3	20.0
Acetonitrile	Ave	0.0140	0.0126		90.3	100	-9.7	50.0
Iodomethane	Ave	0.7267	0.7202		9.91	10.0	-0.9	35.0
Tert-butyl alcohol (2-methyl-2-propanol)	Ave	0.0117	0.0092		157	200	-21.4	50.0
Methylene Chloride	Ave	0.4710	0.4494		9.54	10.0	-4.6	35.0
Acrylonitrile	Ave	0.0464	0.0398		85.9	100	-14.1	50.0
trans-1,2-Dichloroethene	Ave	0.5705	0.6050		10.6	10.0	6.0	35.0
Isopropyl ether	Ave	0.4052	0.3698		45.6	50.0	-8.7	35.0
1,1-Dichloroethane	Ave	0.9432	1.007	0.1000	10.7	10.0	6.8	35.0
Chloroprene	Ave	0.8671	0.9111		10.5	10.0	5.1	35.0
2-Butanone (MEK)	Ave	0.0541	0.0461		34.1	40.0	-14.8	50.0
Propionitrile	Ave	0.0178	0.0156		87.1	100	-12.9	50.0
cis-1,2-Dichloroethene	Ave	0.5895	0.5877		9.97	10.0	-0.3	35.0
2,2-Dichloropropane	Ave	0.7456	0.8539		11.5	10.0	14.5	35.0
Methacrylonitrile	Ave	0.0826	0.0683		82.7	100	-17.3	50.0
Bromochloromethane	Ave	0.1920	0.1650		8.59	10.0	-14.1	35.0
Chloroform	Ave	0.8806	0.8867		10.1	10.0	0.7	20.0
Isobutyl alcohol	Ave	0.0041	0.0034		169	200	-15.7	50.0
1,1,1-Trichloroethane	Ave	0.8649	0.8939		10.3	10.0	3.3	35.0
1,1-Dichloropropene	Ave	0.8096	0.8384		10.4	10.0	3.6	35.0
Carbon tetrachloride	Ave	0.7098	0.7121		10.0	10.0	0.3	35.0
1,2-Dichloroethane	Ave	0.4176	0.3602		8.62	10.0	-13.8	35.0
Benzene	Ave	2.183	2.361		10.8	10.0	8.2	35.0
n-Butanol	Ave	0.0045	0.0032		214	300	-28.6	50.0
Trichloroethene	Ave	0.6189	0.6153		9.94	10.0	-0.6	35.0
1,2-Dichloropropane	Ave	0.4423	0.4542		10.3	10.0	2.7	20.0
1,4-Dioxane	Ave	0.0015	0.0015		500	500	-0.0	50.0
Dibromomethane	Ave	0.1708	0.1529		8.96	10.0	-10.4	35.0
Bromodichloromethane	Ave	0.4816	0.4650		9.65	10.0	-3.5	35.0
cis-1,3-Dichloropropene	Ave	2.730	2.599		9.52	10.0	-4.8	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: CCV 280-97860/2 Calibration Date: 11/28/2011 17:42

Instrument ID: MSV_MS1 Calib Start Date: 11/01/2011 17:19

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 11/01/2011 19:19

Lab File ID: ms2834.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Methyl-2-pentanone	Ave	0.5529	0.4901		35.5	40.0	-11.4	50.0
Toluene	Ave	2.325	2.536		10.9	10.0	9.1	20.0
trans-1,3-Dichloropropene	Ave	0.3912	0.3809		9.74	10.0	-2.6	35.0
1,1,2-Trichloroethane	Ave	0.2137	0.1879		8.79	10.0	-12.1	35.0
2-Hexanone	Ave	0.0764	0.0637		33.4	40.0	-16.6	50.0
1,3-Dichloropropane	Ave	1.969	1.753		8.90	10.0	-11.0	35.0
Tetrachloroethene	Ave	2.356	2.376		10.1	10.0	0.9	35.0
Dibromochloromethane	Ave	1.229	1.028		8.37	10.0	-16.3	35.0
1,2-Dibromoethane (EDB)	Ave	0.9455	0.7981		8.44	10.0	-15.6	35.0
1-Chlorohexane	Ave	3.888	4.018		10.6	10.3	3.4	35.0
Chlorobenzene	Ave	6.742	6.749	0.3000	10.0	10.0	0.1	35.0
1,1,1,2-Tetrachloroethane	Ave	2.061	1.896		9.20	10.0	-8.0	35.0
Ethylbenzene	Ave	4.378	4.952		11.3	10.0	13.1	20.0
m-Xylene & p-Xylene	Ave	5.194	5.668		21.8	20.0	9.1	35.0
o-Xylene	Ave	4.953	5.152		10.4	10.0	4.0	35.0
Styrene	Ave	6.950	6.947		10.0	10.0	-0.0	35.0
Bromoform	Ave	0.5467	0.4304	0.1000	7.87	10.0	-21.3	35.0
Isopropylbenzene	Ave	8.694	9.211		10.6	10.0	5.9	35.0
Cyclohexanone	Ave	0.0205	0.0293		358	250	43.1	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7022	0.5961	0.3000	8.49	10.0	-15.1	35.0
1,2,3-Trichloropropane	Ave	0.2118	0.1675		7.91	10.0	-20.9	35.0
n-Propylbenzene	Ave	2.866	3.010		10.5	10.0	5.0	35.0
Bromobenzene	Ave	1.847	1.645		8.91	10.0	-10.9	35.0
1,3,5-Trimethylbenzene	Ave	7.611	8.305		10.9	10.0	9.1	35.0
2-Chlorotoluene	Ave	2.239	2.350		10.5	10.0	4.9	35.0
4-Chlorotoluene	Ave	2.214	2.165		9.78	10.0	-2.2	35.0
tert-Butylbenzene	Ave	7.879	8.364		10.6	10.0	6.2	35.0
1,2,4-Trimethylbenzene	Ave	7.552	8.219		10.9	10.0	8.8	35.0
sec-Butylbenzene	Ave	2.306	2.395		10.4	10.0	3.8	35.0
4-Isopropyltoluene	Ave	8.471	9.557		11.3	10.0	12.8	35.0
1,3-Dichlorobenzene	Ave	3.814	3.888		10.2	10.0	1.9	35.0
1,4-Dichlorobenzene	Ave	3.810	3.421		8.98	10.0	-10.2	35.0
n-Butylbenzene	Ave	8.182	9.360		11.4	10.0	14.4	35.0
1,2-Dichlorobenzene	Ave	2.950	2.683		9.09	10.0	-9.1	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.0949	0.0654		6.89	10.0	-31.1	50.0
1,2,4-Trichlorobenzene	Ave	1.990	1.772		8.90	10.0	-11.0	35.0
Hexachlorobutadiene	Ave	1.540	1.724		11.2	10.0	12.0	35.0
Naphthalene	Ave	2.342	1.744		7.45	10.0	-25.5	35.0
1,2,3-Trichlorobenzene	Ave	1.498	1.280		8.54	10.0	-14.6	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\ms2834.D
Lab Smp Id: CCV
Inj Date : 28-NOV-2011 17:42
Operator : SEIFERTJ   Inst ID: GCMS1.i
Smp Info : CCV,,M
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\8260B-H2O.m
Meth Date : 28-Nov-2011 23:49 GCMS1.i   Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41   Cal File: ms1801.D
Als bottle: 2   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 1-main.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
*	69 Fluorobenzene	96	8.340	8.340	(1.000)	1380810	12.5000	
*	95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	289752	12.5000	
*	121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	408345	12.5000	
M	1 1,2-Dichloroethene (total)	96				1317531	20.0000	20.5748
M	2 Xylene (total)	106				3821907	30.0000	32.2278
M	3 Trihalomethane (total)	100				1831283	40.0000	35.9661
M	4 1,3-Dichloropropene (total)	100				1023067	20.0000	19.2562
	5 dichlorodifluoromethane	85	4.597	4.597	(0.551)	560102	10.0000	9.93729
	7 Chloromethane	50	4.820	4.820	(0.578)	809600	10.0000	9.18403
	8 Vinyl Chloride	62	4.974	4.974	(0.596)	823621	10.0000	9.05770
	10 Bromomethane	94	5.351	5.351	(0.642)	514260	10.0000	8.88610
	11 Chloroethane	64	5.435	5.435	(0.652)	515218	10.0000	10.3991
	14 Trichlorofluoromethane	101	5.672	5.672	(0.680)	978006	10.0000	10.1261
	13 Ethanol	45	5.686	5.686	(0.682)	75227	500.000	504.418
	19 Acrolein	56	5.979	5.979	(0.717)	230657	100.000	90.1656
	20 Acetone	43	6.077	6.077	(0.729)	142173	40.0000	33.8093
	23 1,1-Dichloroethene	96	6.133	6.133	(0.735)	509819	10.0000	9.96714
	27 Iodomethane	142	6.314	6.314	(0.757)	795554	10.0000	9.91030
	26 Acetonitrile	41	6.300	6.300	(0.756)	139305	100.000	90.2945
	30 tert-Butyl alcohol	59	6.426	6.426	(0.771)	203339	200.000	157.262
	33 Methylene Chloride	84	6.482	6.482	(0.777)	496421	10.0000	9.54179
	34 Acrylonitrile	53	6.608	6.608	(0.792)	439763	100.000	85.8804

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
36 trans-1,2-Dichloroethene	96	6.705	6.705	(0.804)	668336	10.0000	10.6046
43 Isopropyl ether	87	6.985	6.985	(0.838)	2042704	50.0000	45.6361(Q)
44 1,1-Dichloroethane	63	7.027	7.027	(0.843)	1112190	10.0000	10.6751
46 Chloroprene	53	7.097	7.097	(0.851)	1006471	10.0000	10.5083
50 2-Butanone	43	7.390	7.390	(0.886)	203600	40.0000	34.0636
52 cis-1,2-Dichloroethene	96	7.460	7.460	(0.895)	649195	10.0000	9.97020
51 Propionitrile	54	7.446	7.446	(0.893)	171727	100.000	87.1449
53 2,2-Dichloropropane	77	7.502	7.502	(0.900)	943260	10.0000	11.4532
54 Methacrylonitrile	41	7.571	7.571	(0.908)	754819	100.000	82.7208
55 Bromochloromethane	128	7.655	7.655	(0.918)	182302	10.0000	8.59464
56 Chloroform	83	7.655	7.655	(0.918)	979537	10.0000	10.0699
60 1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	987402	10.0000	10.3348
59 Isobutanol	41	7.851	7.851	(0.941)	76022	200.000	168.689
62 1,1-Dichloropropene	75	8.004	8.004	(0.960)	926077	10.0000	10.3555
63 Carbon Tetrachloride	117	8.046	8.046	(0.965)	786620	10.0000	10.0328
65 1,2-Dichloroethane	62	8.144	8.144	(0.977)	397866	10.0000	8.62452
67 Benzene	78	8.172	8.172	(0.980)	2608380	10.0000	10.8191
68 n-Butanol	56	8.340	8.340	(1.000)	105261	300.000	214.069
71 Trichloroethene	130	8.605	8.605	(1.032)	679644	10.0000	9.94110
74 1,2-Dichloropropane	63	8.772	8.772	(1.052)	501749	10.0000	10.2700
76 1,4-Dioxane	88	8.828	8.828	(1.059)	80209	500.000	499.842
77 Dibromomethane	93	8.870	8.870	(1.064)	168924	10.0000	8.95554
78 Bromodichloromethane	83	8.940	8.940	(1.072)	513611	10.0000	9.65443
81 cis-1,3-Dichloropropene	75	9.247	9.247	(0.873)	602366	10.0000	9.52048
82 4-Methyl-2-pentanone	43	9.289	9.289	(0.877)	454404	40.0000	35.4542
84 Toluene	91	9.527	9.527	(1.142)	2800912	10.0000	10.9064
86 trans-1,3-Dichloropropene	75	9.610	9.610	(1.152)	420701	10.0000	9.73573
87 1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	207515	10.0000	8.78958
88 2-Hexanone	43	9.890	9.890	(1.186)	281656	40.0000	33.3768
89 1,3-Dichloropropane	76	9.918	9.918	(0.937)	406245	10.0000	8.89885
90 Tetrachloroethene	164	9.974	9.974	(0.942)	550874	10.0000	10.0862
91 Dibromochloromethane	129	10.127	10.127	(0.956)	238374	10.0000	8.36935
93 1,2-Dibromoethane	107	10.267	10.267	(0.970)	184994	10.0000	8.44051
94 1-Chlorohexane	91	10.490	10.490	(0.991)	956018	10.0000	10.6078
96 Chlorobenzene	112	10.616	10.616	(1.003)	1564536	10.0000	10.0104
97 1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	439568	10.0000	9.19978
98 Ethylbenzene	106	10.644	10.644	(1.005)	1147985	10.0000	11.3134
99 m and p-Xylene	106	10.728	10.728	(1.013)	2627551	20.0000	21.8248
101 o-Xylene	106	11.063	11.063	(1.045)	1194356	10.0000	10.4029
100 Styrene	104	11.063	11.063	(1.045)	1610329	10.0000	9.99523
102 Bromoform	173	11.272	11.272	(1.065)	99761	10.0000	7.87241
103 isopropyl benzene	105	11.328	11.328	(0.904)	3009151	10.0000	10.5946
105 Cyclohexanone	55	11.468	11.468	(1.083)	169684	400.000	357.786
107 1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.920)	194740	10.0000	8.48949
109 1,2,3-Trichloropropane	110	11.608	11.608	(0.926)	54707	10.0000	7.90731
111 Bromobenzene	156	11.677	11.677	(0.932)	537478	10.0000	8.90920
110 n-Propylbenzene	120	11.663	11.663	(0.931)	983424	10.0000	10.5027
113 2-Chlorotoluene	126	11.803	11.803	(0.942)	767589	10.0000	10.4947
112 1,3,5-Trimethylbenzene	105	11.789	11.789	(0.941)	2712913	10.0000	10.9115
114 4-Chlorotoluene	126	11.887	11.887	(0.949)	707334	10.0000	9.77996
115 tert-Butylbenzene	119	12.110	12.110	(0.967)	2732289	10.0000	10.6150
116 1,2,4-Trimethylbenzene	105	12.138	12.138	(0.969)	2684952	10.0000	10.8832
118 sec-Butylbenzene	134	12.306	12.306	(0.982)	782275	10.0000	10.3834
119 4-Isopropyltoluene	119	12.390	12.390	(0.989)	3121896	10.0000	11.2818

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
120 1,3-Dichlorobenzene	146	12.488	12.488	(0.997)	1270271	10.0000	10.1940
122 1,4-dichlorobenzene	146	12.557	12.557	(1.002)	1117610	10.0000	8.97993
124 n-Butylbenzene	91	12.795	12.795	(1.021)	3057532	10.0000	11.4397
126 1,2-Dichlorobenzene	146	12.948	12.948	(1.033)	876454	10.0000	9.09410
127 1,2-Dibromo-3-chloropropane	157	13.758	13.758	(1.098)	21367	10.0000	6.89115
129 1,2,4-Trichlorobenzene	180	14.834	14.834	(1.184)	578750	10.0000	8.90240
130 Hexachlorobutadiene	225	15.015	15.015	(1.198)	563299	10.0000	11.1966
131 Naphthalene	128	15.253	15.253	(1.217)	569792	10.0000	7.44611
132 1,2,3-Trichlorobenzene	180	15.616	15.616	(1.246)	418120	10.0000	8.54381

QC Flag Legend

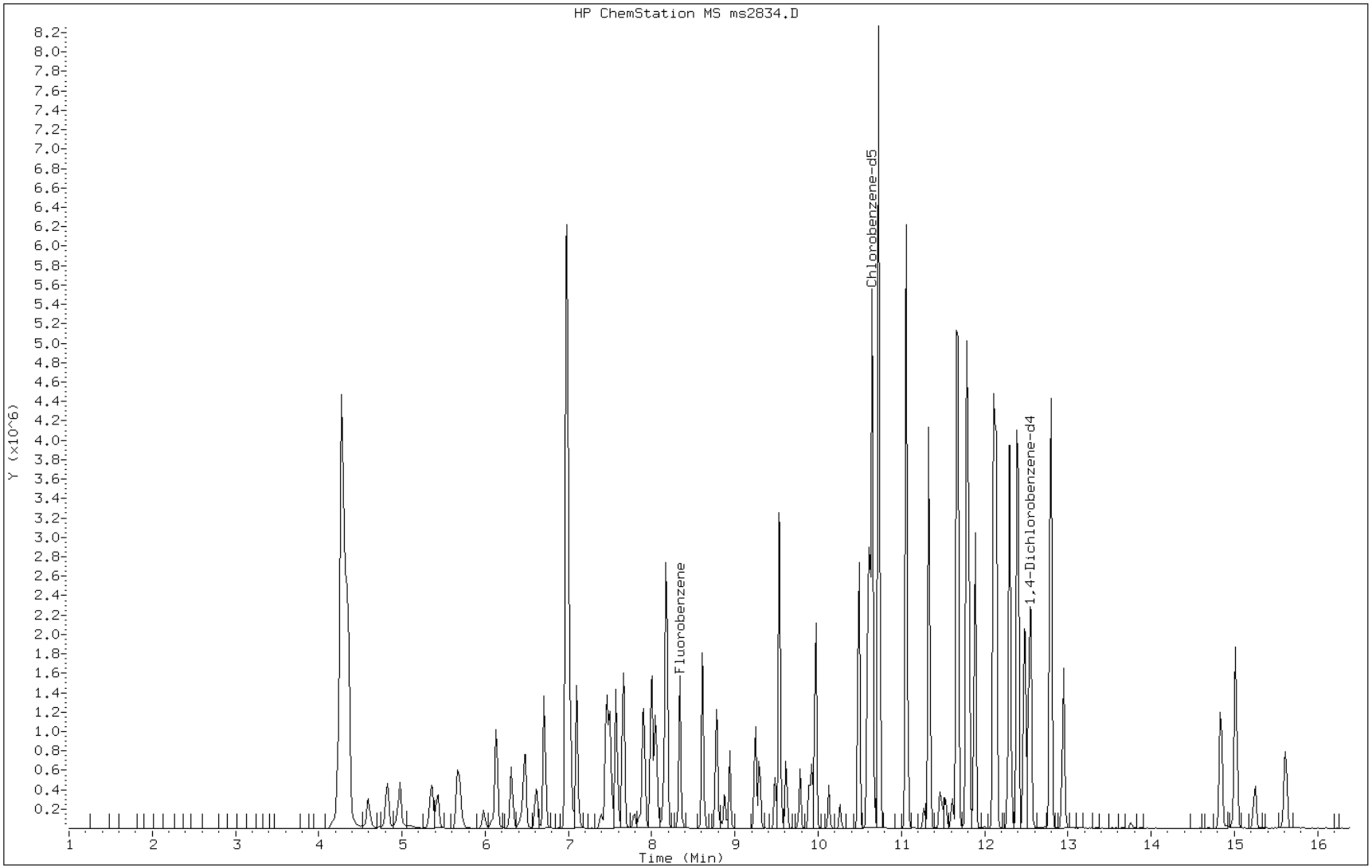
Q - Qualifier signal failed the ratio test.

Data File: ms2834.D

Date: 28-NOV-2011 17:42

Client ID: Instrument: GCMS1.i

Sample Info: CCV,,M Operator: SEIFERTJ



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Lab Sample ID: CCV 280-97860/3 Calibration Date: 11/28/2011 18:02

Instrument ID: MSV_MS1 Calib Start Date: 11/01/2011 21:00

GC Column: DB-624 (60.25) ID: 0.25(mm) Calib End Date: 11/01/2011 23:40

Lab File ID: ms2835.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.2506	0.1399		5.58	10.0	-44.2	50.0
Ethylene oxide	Ave	0.0081	0.0061		934	1250	-25.3	50.0
Dichlorofluoromethane	Ave	1.090	1.110		10.2	10.0	1.8	50.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.6134	0.6039		9.85	10.0	-1.5	50.0
2,2-Dichloro-1,1,1-trifluoroethane	Ave	0.8537	0.8746		10.2	10.0	2.4	50.0
Ethyl ether	Ave	0.2540	0.2083		8.20	10.0	-18.0	35.0
Propene oxide	Ave	0.0310	0.0046		73.6	500	-85.3	
1,1,2-Trichlorotrifluoroethane	Ave	0.4524	0.4147		9.17	10.0	-8.3	50.0
2-Propanol	Ave	0.0084	0.0070		165	200	-17.3	50.0
Methyl acetate	Ave	0.0971	0.0820		42.2	50.0	-15.6	50.0
Allyl chloride	Ave	0.7315	0.7843		10.7	10.0	7.2	35.0
Carbon disulfide	Ave	2.198	2.270		10.3	10.0	3.3	50.0
Methyl tert-butyl ether	Ave	0.7099	0.5571		7.85	10.0	-21.5	35.0
Hexane	Ave	4.623	4.694		10.2	10.0	1.5	35.0
Vinyl acetate	Ave	0.3578	0.3302		18.5	20.0	-7.7	50.0
Tert-butyl ethyl ether	Ave	1.077	0.9389		43.6	50.0	-12.8	35.0
Ethyl acetate	Ave	0.1622	0.1314		16.2	20.0	-19.0	50.0
Tetrahydrofuran	Ave	0.0364	0.0288		15.8	20.0	-20.9	50.0
Cyclohexane	Ave	1.003	1.093		10.9	10.0	8.9	35.0
Tert-amyl methyl ether	Ave	0.8522	0.7148		41.9	50.0	-16.1	35.0
2-Pentanone	Ave	0.0887	0.0721		32.5	40.0	-18.7	50.0
Methyl methacrylate	Ave	0.0465	0.0359		15.4	20.0	-22.9	35.0
Methylcyclohexane	Ave	0.8104	0.8766		10.8	10.0	8.2	35.0
2-Nitropropane	Lin1	0.1669	0.1215		6.70	10.0	-33.0	50.0
2-Chloroethyl vinyl ether	Lin1	0.3856	0.2294		5.65	10.0	-43.5	50.0
Ethyl methacrylate	Lin1	1.270	1.010		14.3	20.0	-28.4	35.0
Tetrahydrothiophene	Lin1	0.5290	0.4014		7.36	10.0	-26.4	50.0
cis-1,4-Dichloro-2-butene	Ave	0.1652	0.1303		7.89	10.0	-21.1	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1401	0.1495		10.7	10.0	6.7	50.0
1,2,3-Trimethylbenzene	Ave	6.943	6.889		9.92	10.0	-0.8	35.0
Dibromofluoromethane (Surr)	Ave	0.4977	0.4980		10.0	10.0	0.0	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3905	0.3661		9.38	10.0	-6.2	35.0
Toluene-d8 (Surr)	Ave	11.35	12.30		10.8	10.0	8.4	35.0
4-Bromofluorobenzene (Surr)	Ave	2.274	2.322		10.2	10.0	2.1	35.0

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\ms2835.D
Lab Smp Id: CCV
Inj Date : 28-NOV-2011 18:02
Operator : SEIFERTJ Inst ID: GCMS1.i
Smp Info : CCV,,S
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\8260B-H2O.m
Meth Date : 28-Nov-2011 23:49 GCMS1.i Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41 Cal File: ms1801.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 2-supp.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

						AMOUNTS		
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
* 69 Fluorobenzene	96	8.339	8.339	(1.000)	1457977	12.5000		
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	292912	12.5000		
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	387491	12.5000		(Q)
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	580869	10.0000	10.0067	
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	427023	10.0000	9.37636	
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	2882112	10.0000	10.8369	
$ 106 4-Bromofluorobenzene (Surr)	95	11.482	11.482	(0.916)	719836	10.0000	10.2115	
6 1,2-Dichlorotetrafluoroethane	85	4.750	4.750	(0.570)	163211	10.0000	5.58297	
9 Ethylene Oxide	43	5.295	5.295	(0.635)	884009	1250.00	933.910	
12 Dichlorofluoromethane	67	5.560	5.560	(0.667)	1294557	10.0000	10.1789	
15 1,2-dichloro-1,1,2-trifluoroe	117	5.812	5.812	(0.697)	704414	10.0000	9.84528	
17 Ethyl Ether	59	5.853	5.853	(0.702)	242938	10.0000	8.20037	
16 2,2-dichloro-1,1,1-trifluoroe	83	5.840	5.840	(0.700)	1020094	10.0000	10.2440	
18 Propylene Oxide	58	5.951	5.951	(0.714)	265802	500.000	73.6214	
21 Trichlorotrifluoroethane	151	6.105	6.105	(0.732)	483673	10.0000	9.16616	
22 2-propanol	45	6.105	6.105	(0.732)	162734	200.000	165.344	
28 Methyl Acetate	43	6.328	6.328	(0.759)	478004	50.0000	42.1966	
29 Allyl Chloride	41	6.384	6.384	(0.766)	914742	10.0000	10.7210	
31 Carbon Disulfide	76	6.426	6.426	(0.771)	2647624	10.0000	10.3287	
35 Methyl t-butyl ether	73	6.664	6.664	(0.799)	649775	10.0000	7.84732	
40 Hexane	57	6.887	6.887	(0.650)	1100002	10.0000	10.1550	
42 Vinyl acetate	43	6.957	6.957	(0.834)	770347	20.0000	18.4563	

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
48 ETBE	59	7.264	7.264	(0.871)	5475291	50.0000	43.5794
49 Ethyl Acetate	43	7.376	7.376	(0.884)	306517	20.0000	16.2042
146 2-Butanol	45	7.432	7.432	(0.891)	277705	300.000	217.303
57 Tetrahydrofuran	42	7.697	7.697	(0.923)	67124	20.0000	15.8244
61 Cyclohexane	56	7.990	7.990	(0.958)	1274471	10.0000	10.8924
66 TAME	73	8.158	8.158	(0.978)	4168444	50.0000	41.9380
72 2-Pentanone	43	8.633	8.633	(1.035)	336335	40.0000	32.5198
75 Methyl Cyclohexane	55	8.800	8.800	(1.055)	1022396	10.0000	10.8169
73 Methyl Methacrylate	100	8.717	8.717	(1.045)	83649	20.0000	15.4100
79 2-nitropropane	41	9.052	9.052	(0.855)	28481	10.0000	6.70080
80 2-Chloroethyl vinyl ether	63	9.066	9.066	(0.856)	53753	10.0000	5.65323
85 Ethyl methacrylate	69	9.596	9.596	(0.906)	473301	20.0000	14.3258
92 Tetrahydrothiophene	60	10.183	10.183	(0.962)	94058	10.0000	7.36115
104 cis-1,4-dichloro-2-butene	53	11.342	11.342	(0.905)	40404	10.0000	7.89066
108 t-1,4-Dichloro-2-butene	53	11.552	11.552	(0.922)	46333	10.0000	10.6661
123 1,2,3-Trimethylbenzene	105	12.543	12.543	(1.001)	2135417	10.0000	9.92123

QC Flag Legend

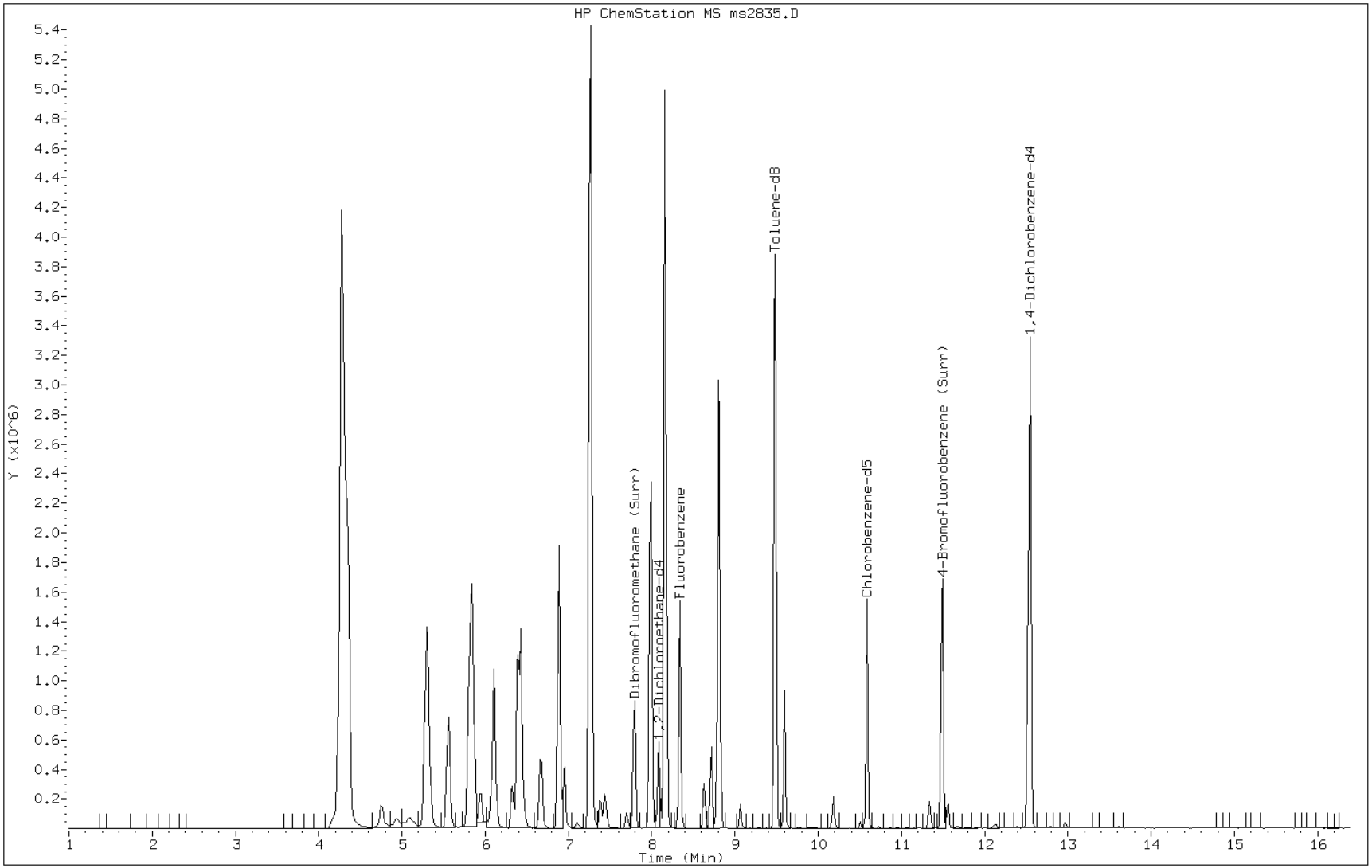
Q - Qualifier signal failed the ratio test.

Data File: ms2835.D

Date: 28-NOV-2011 18:02

Client ID: Instrument: GCMS1.i

Sample Info: CCV,,S Operator: SEIFERTJ



TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3670.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 01-NOV-2011 17:11
Operator : TINKHAMS Inst ID: E.i
Smp Info : BFB
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\110111IC\bfb390.m
Meth Date : 25-Aug-2011 05:58 meierg Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC380

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.099	5.112	(0.000)	95	89304			0.00- 100.00	100.00
5.099	5.112	(0.000)	50	15203			15.00- 40.00	17.02
5.099	5.112	(0.000)	75	44160			30.00- 60.00	49.45
5.099	5.112	(0.000)	96	6621			5.00- 9.00	7.41
5.099	5.112	(0.000)	173	285			0.00- 2.00	0.37
5.099	5.112	(0.000)	174	77504			50.00- 0.00	86.79
5.099	5.112	(0.000)	175	5286			5.00- 9.00	6.82
5.099	5.112	(0.000)	176	76384			95.00- 101.00	98.55
5.099	5.112	(0.000)	177	5695			5.00- 9.00	7.46

Data File: E3670.D

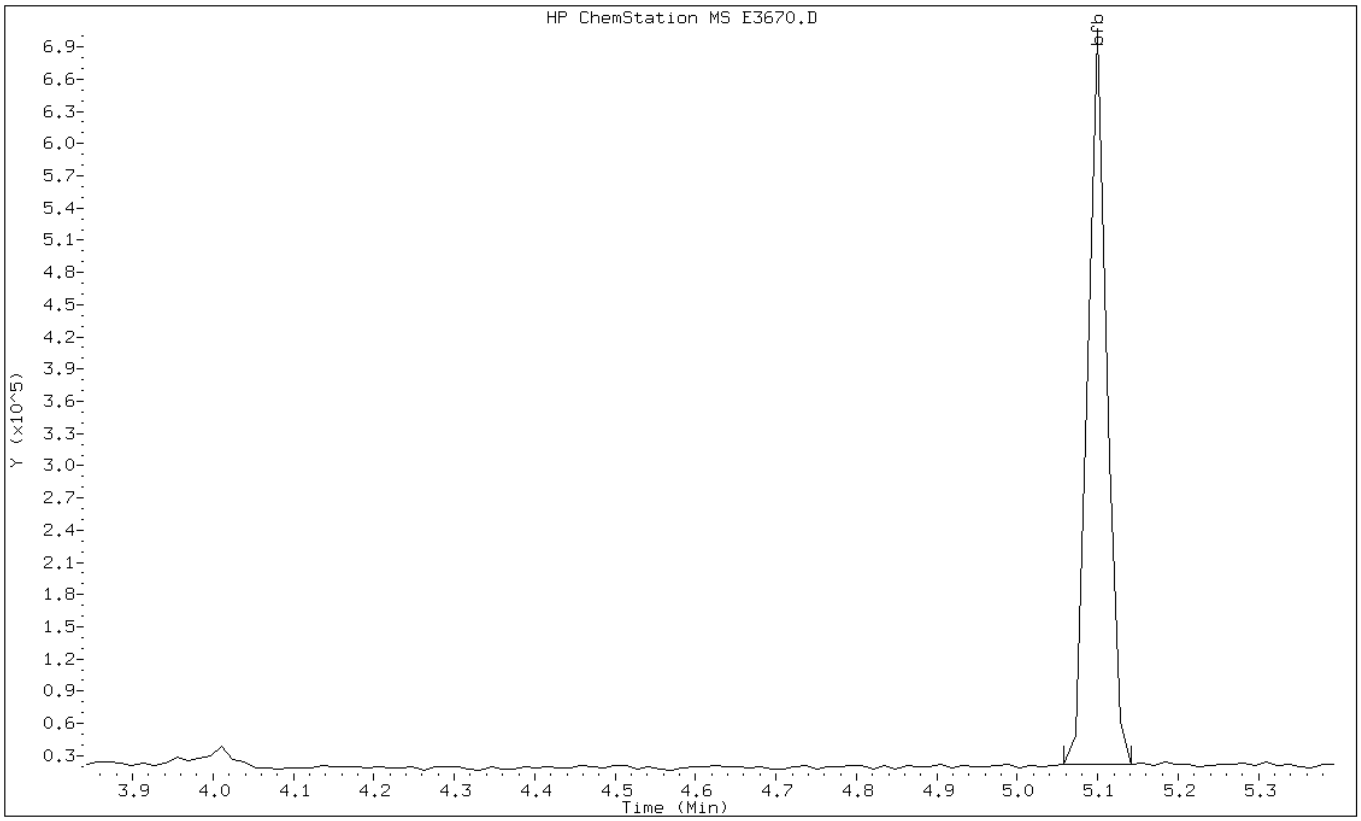
Date: 01-NOV-2011 17:11

Client ID: BFB

Instrument: E.i

Sample Info: BFB

Operator: TINKHAMS



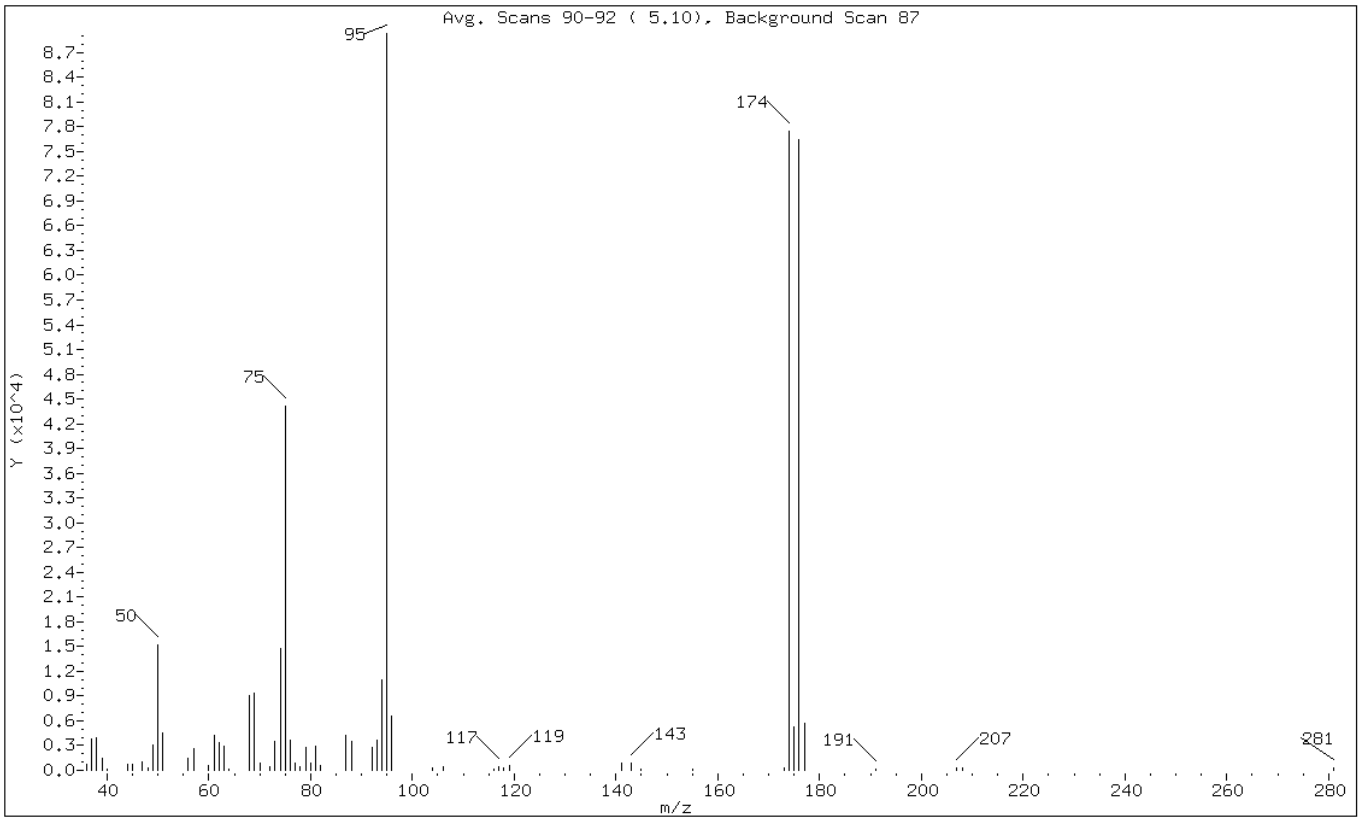
Data File: E3670.D

Date: 01-NOV-2011 17:11

Client ID: BFB Instrument: E.i

Sample Info: BFB Operator: TINKHAMS

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.02
75	30.00 - 60.00% of mass 95	49.45
96	5.00 - 9.00% of mass 95	7.41
173	Less than 2.00% of mass 174	0.32 (0.37)
174	Greater than 50.00% of mass 95	86.79
175	5.00 - 9.00% of mass 174	5.92 (6.82)
176	95.00 - 101.00% of mass 174	85.53 (98.55)
177	5.00 - 9.00% of mass 176	6.38 (7.46)

Data File: E3670.D

Date: 01-NOV-2011 17:11

Client ID: BFB Instrument: E.i

Sample Info: BFB Operator: TINKHAMS

Data File: \\DenSvr03\Public\chem\MSV\E.i\110111IC\E3670.D
Spectrum: Avg. Scans 90-92 (5.10), Background Scan 87
Location of Maximum: 95.00
Number of points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	693	61.00	4203	80.00	906	119.00	633
37.00	3849	62.00	3324	81.00	2864	141.00	887
38.00	3889	63.00	2887	82.00	537	143.00	906
39.00	1520	64.00	170	87.00	4307	145.00	168
40.00	138	68.00	9006	88.00	3468	155.00	188
44.00	705	69.00	9364	92.00	2742	173.00	285
45.00	762	70.00	853	93.00	3648	174.00	77504
47.00	1072	72.00	488	94.00	10924	175.00	5286
48.00	225	73.00	3571	95.00	89304	176.00	76384
49.00	3092	74.00	14777	96.00	6621	177.00	5695
50.00	15203	75.00	44160	104.00	268	191.00	206
51.00	4507	76.00	3664	106.00	387	207.00	234
56.00	1412	77.00	810	116.00	190	208.00	233
57.00	2562	78.00	465	117.00	495	281.00	319
60.00	636	79.00	2709	118.00	237		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\E.i\112811I\E4601.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-NOV-2011 10:09
Operator : MEIERG Inst ID: E.i
Smp Info : BFB,,938819
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112811I\bfb390.m
Meth Date : 25-Aug-2011 05:58 meierg Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC186

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

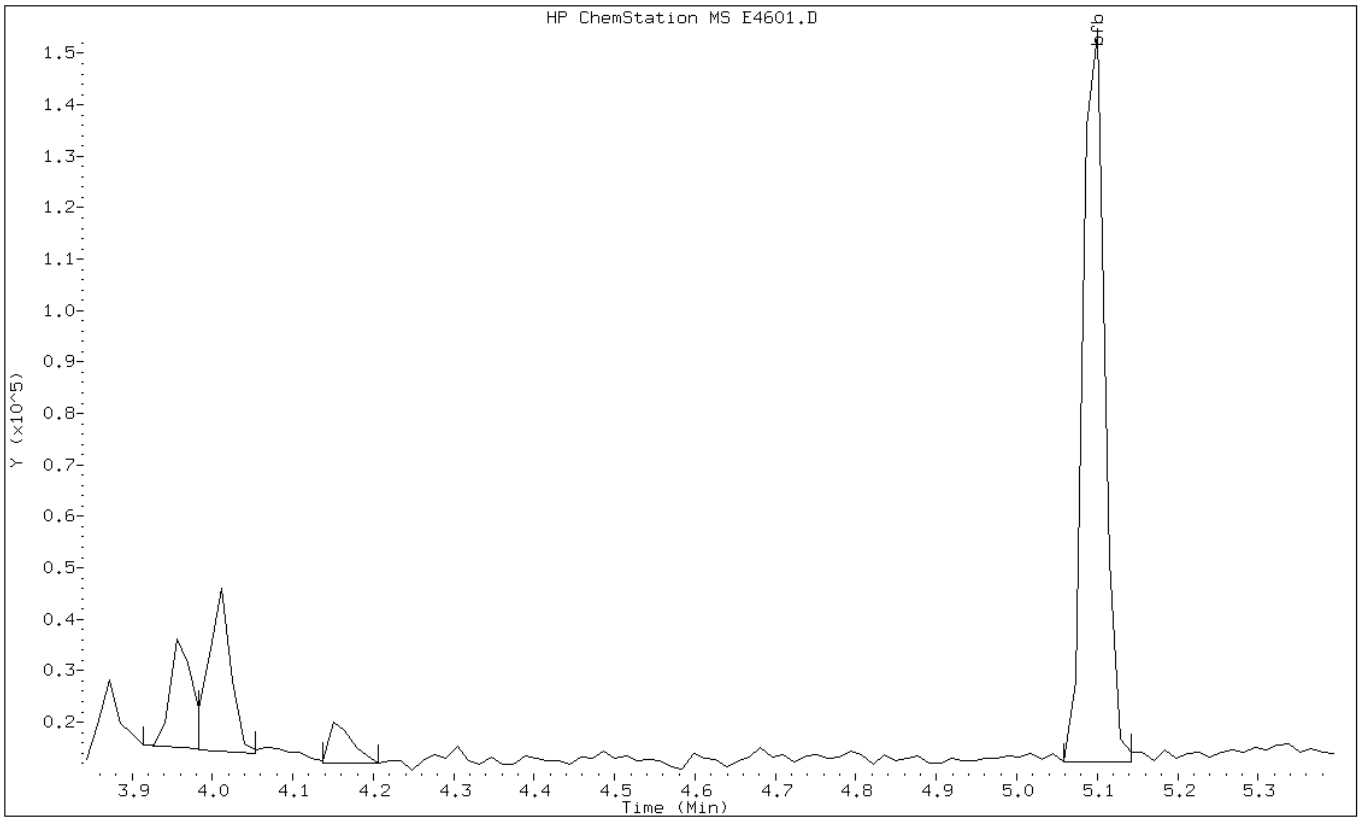
					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
5.100	5.112	(0.000)	95	22728			0.00- 100.00	100.00
5.100	5.112	(0.000)	50	4149			15.00- 40.00	18.26
5.100	5.112	(0.000)	75	10407			30.00- 60.00	45.79
5.100	5.112	(0.000)	96	1519			5.00- 9.00	6.68
5.100	5.112	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.100	5.112	(0.000)	174	16608			50.00- 0.00	73.07
5.100	5.112	(0.000)	175	1456			5.00- 9.00	8.77
5.100	5.112	(0.000)	176	16392			95.00- 101.00	98.70
5.100	5.112	(0.000)	177	1300			5.00- 9.00	7.93

Data File: E4601.D

Date: 28-NOV-2011 10:09

Client ID: BFB Instrument: E.i

Sample Info: BFB,,938819 Operator: MEIERG



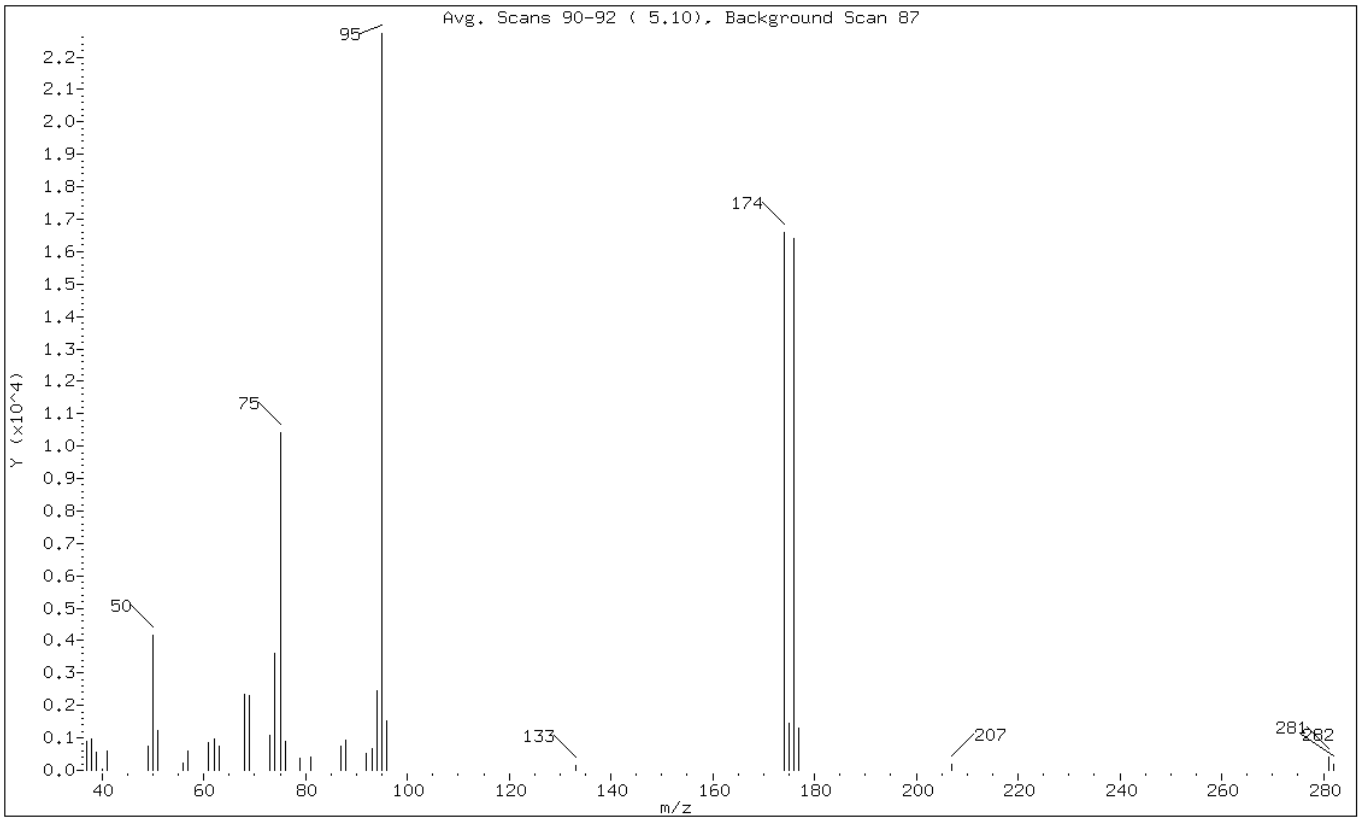
Data File: E4601.D

Date: 28-NOV-2011 10:09

Client ID: BFB Instrument: E.i

Sample Info: BFB,,938819 Operator: MEIERG

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.26
75	30.00 - 60.00% of mass 95	45.79
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	73.07
175	5.00 - 9.00% of mass 174	6.41 (8.77)
176	95.00 - 101.00% of mass 174	72.12 (98.70)
177	5.00 - 9.00% of mass 176	5.72 (7.93)

Data File: E4601.D

Date: 28-NOV-2011 10:09

Client ID: BFB Instrument: E.i

Sample Info: BFB,,938819 Operator: MEIERG

Data File: \\DenSvr03\Public\chem\MSV\E.i\112811I\E4601.D
Spectrum: Avg. Scans 90-92 (5.10), Background Scan 87
Location of Maximum: 95.00
Number of points: 36

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	905	61.00	852	81.00	417	175.00	1456
38.00	963	62.00	967	87.00	745	176.00	16392
39.00	548	63.00	754	88.00	943	177.00	1300
40.00	23	68.00	2331	92.00	539	207.00	173
41.00	596	69.00	2302	93.00	656	281.00	414
49.00	745	73.00	1073	94.00	2437	282.00	168
50.00	4149	74.00	3598	95.00	22728		
51.00	1215	75.00	10407	96.00	1519		
56.00	240	76.00	906	133.00	145		
57.00	581	79.00	376	174.00	16608		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4802.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 29-NOV-2011 20:26
Operator : TINKHAMS Inst ID: E.i
Smp Info : BFB,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\bfb390.m
Meth Date : 25-Aug-2011 05:58 meierg Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC293

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.088	5.112	(0.000)	95	38712			0.00- 100.00	100.00
5.088	5.112	(0.000)	50	7103			15.00- 40.00	18.35
5.088	5.112	(0.000)	75	18688			30.00- 60.00	48.27
5.088	5.112	(0.000)	96	2684			5.00- 9.00	6.93
5.088	5.112	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.088	5.112	(0.000)	174	25160			50.00- 0.00	64.99
5.088	5.112	(0.000)	175	1949			5.00- 9.00	7.75
5.088	5.112	(0.000)	176	24136			95.00- 101.00	95.93
5.088	5.112	(0.000)	177	1734			5.00- 9.00	7.18

Data File: E4802.D

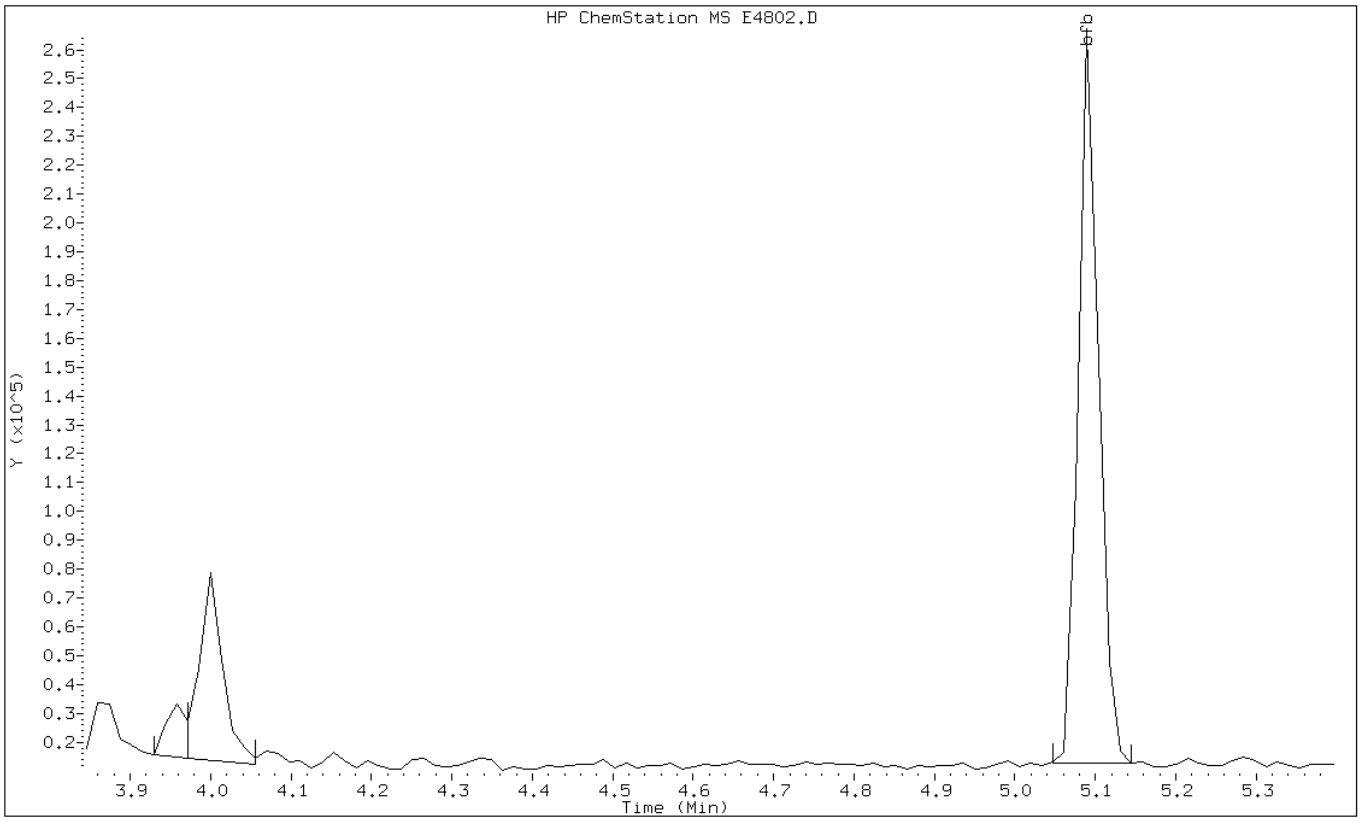
Date: 29-NOV-2011 20:26

Client ID: BFB

Instrument: E.i

Sample Info: BFB,,

Operator: TINKHAMS



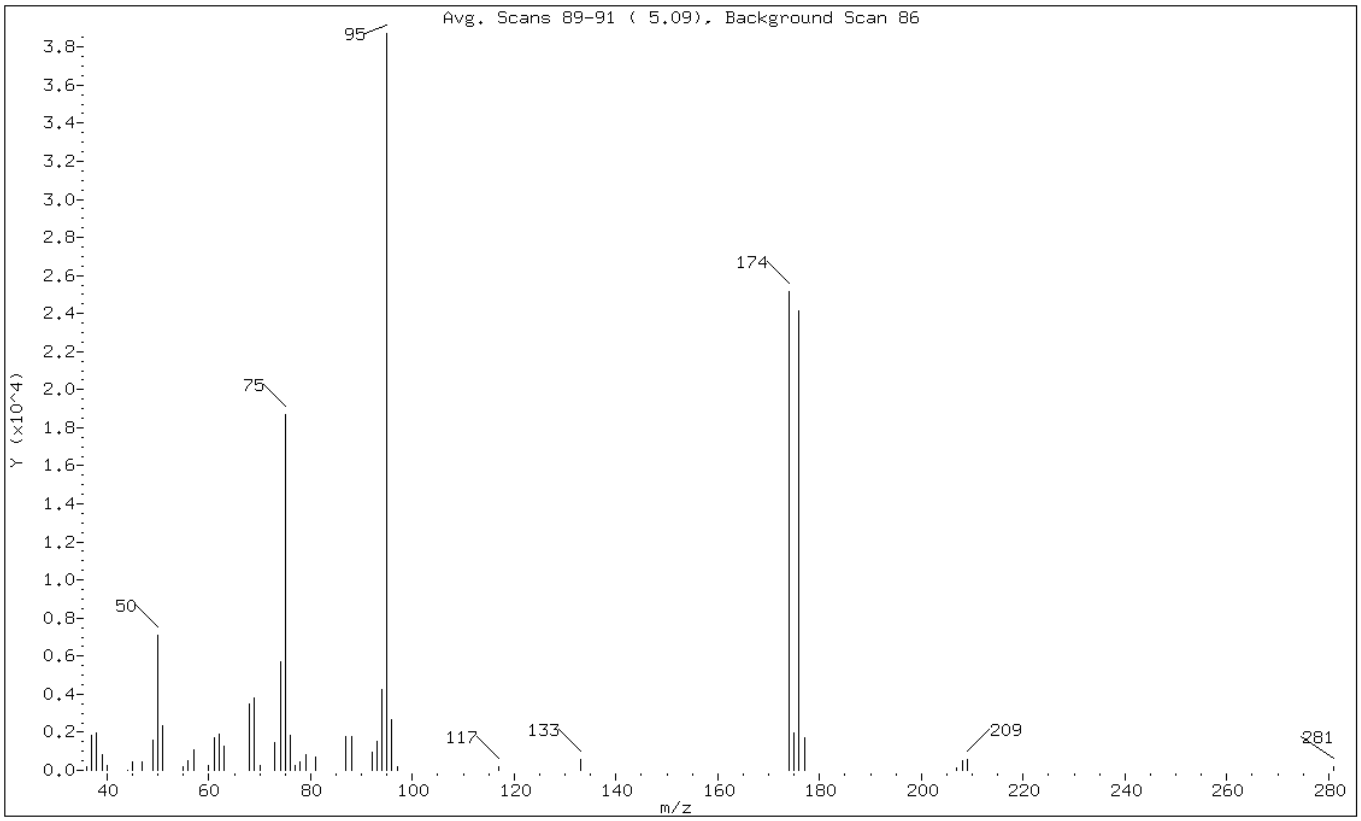
Data File: E4802.D

Date: 29-NOV-2011 20:26

Client ID: BFB Instrument: E.i

Sample Info: BFB,, Operator: TINKHAMS

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.35
75	30.00 - 60.00% of mass 95	48.27
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	64.99
175	5.00 - 9.00% of mass 174	5.03 (7.75)
176	95.00 - 101.00% of mass 174	62.35 (95.93)
177	5.00 - 9.00% of mass 176	4.48 (7.18)

Data File: E4802.D

Date: 29-NOV-2011 20:26

Client ID: BFB Instrument: E.i

Sample Info: BFB,, Operator: TINKHAMS

Data File: \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4802.D
Spectrum: Avg. Scans 89-91 (5.09), Background Scan 86
Location of Maximum: 95.00
Number of points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	188	56.00	525	76.00	1827	97.00	189
37.00	1860	57.00	1064	77.00	230	117.00	193
38.00	1968	60.00	227	78.00	438	133.00	596
39.00	838	61.00	1737	79.00	813	174.00	25160
40.00	268	62.00	1893	81.00	671	175.00	1949
44.00	2	63.00	1284	87.00	1781	176.00	24136
45.00	471	68.00	3514	88.00	1784	177.00	1734
47.00	421	69.00	3776	92.00	962	207.00	142
49.00	1607	70.00	275	93.00	1533	208.00	498
50.00	7103	73.00	1427	94.00	4261	209.00	577
51.00	2314	74.00	5689	95.00	38712	281.00	206
55.00	191	75.00	18688	96.00	2684		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4865.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 30-NOV-2011 18:27
Operator : TINKHAMS Inst ID: E.i
Smp Info : BFB,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\bfb390.m
Meth Date : 25-Aug-2011 05:58 meierg Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC293

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
5.100	5.112	(0.000)	95	31960			0.00- 100.00	100.00
5.100	5.112	(0.000)	50	5505			15.00- 40.00	17.22
5.100	5.112	(0.000)	75	15132			30.00- 60.00	47.35
5.100	5.112	(0.000)	96	2000			5.00- 9.00	6.26
5.100	5.112	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
5.100	5.112	(0.000)	174	23136			50.00- 0.00	72.39
5.100	5.112	(0.000)	175	1415			5.00- 9.00	6.12
5.100	5.112	(0.000)	176	22560			95.00- 101.00	97.51
5.100	5.112	(0.000)	177	1494			5.00- 9.00	6.62

Data File: E4865.D

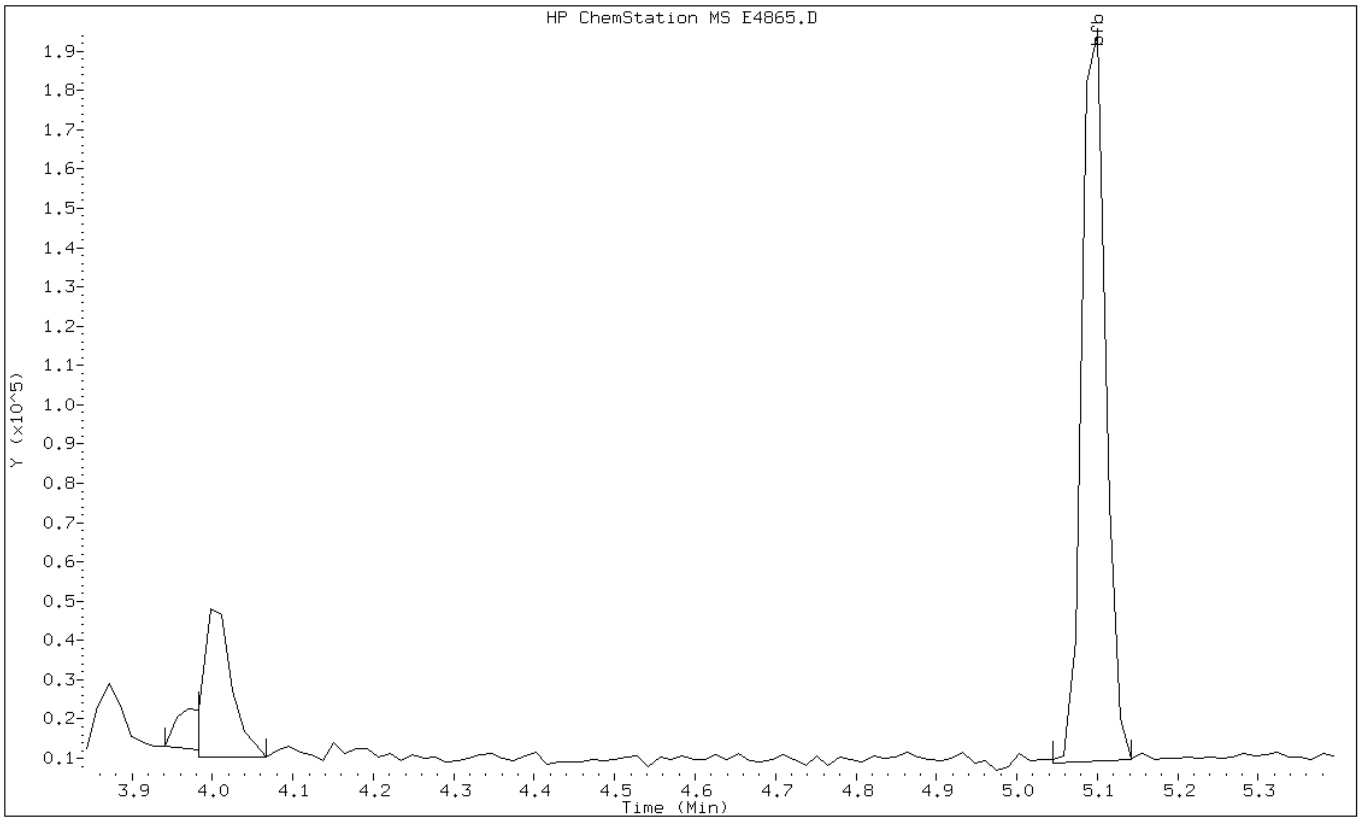
Date: 30-NOV-2011 18:27

Client ID: BFB

Instrument: E.i

Sample Info: BFB,,

Operator: TINKHAMS



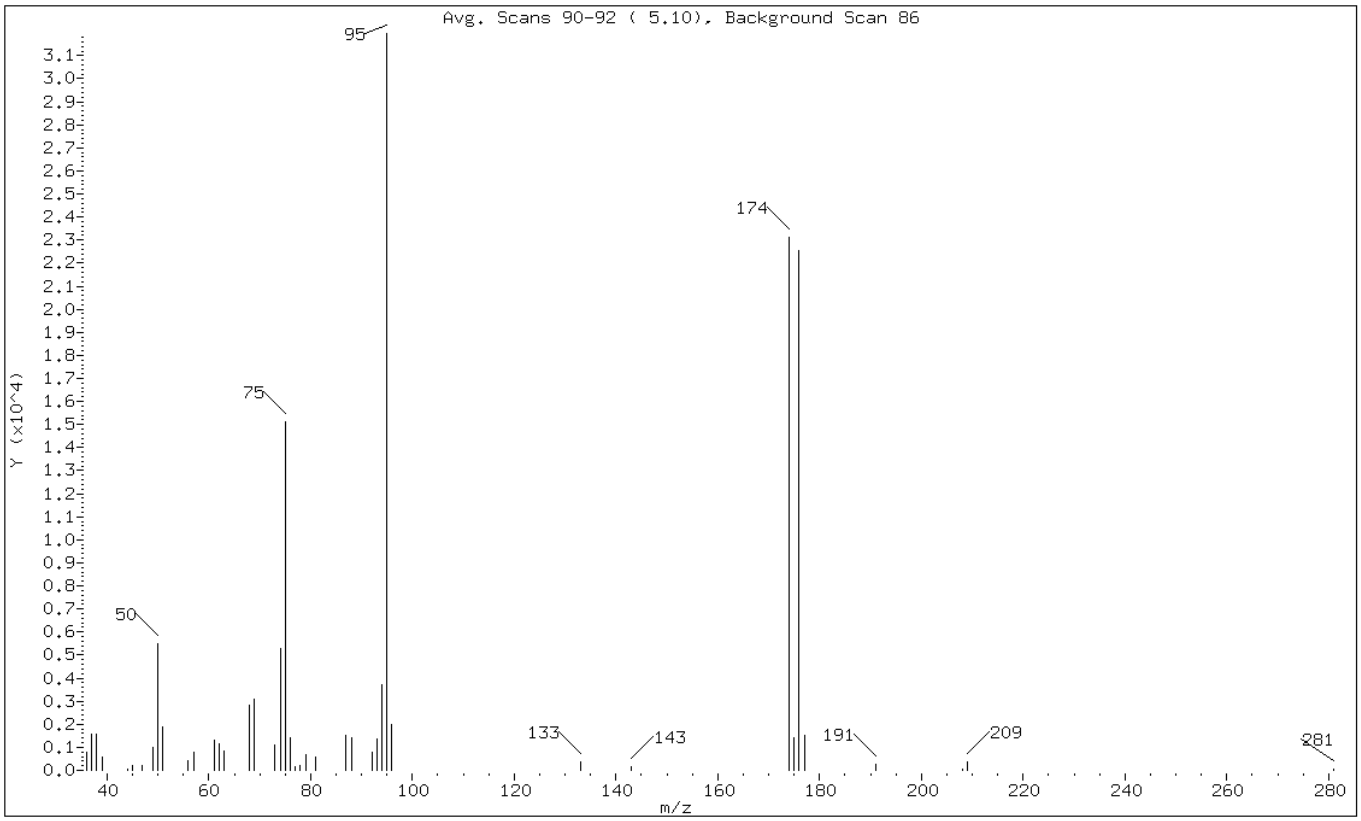
Data File: E4865.D

Date: 30-NOV-2011 18:27

Client ID: BFB Instrument: E.i

Sample Info: BFB,, Operator: TINKHAMS

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.22
75	30.00 - 60.00% of mass 95	47.35
96	5.00 - 9.00% of mass 95	6.26
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	72.39
175	5.00 - 9.00% of mass 174	4.43 (6.12)
176	95.00 - 101.00% of mass 174	70.59 (97.51)
177	5.00 - 9.00% of mass 176	4.67 (6.62)

Data File: E4865.D

Date: 30-NOV-2011 18:27

Client ID: BFB Instrument: E.i

Sample Info: BFB,, Operator: TINKHAMS

Data File: \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4865.D
Spectrum: Avg. Scans 90-92 (5.10), Background Scan 86
Location of Maximum: 95.00
Number of points: 42

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	761	57.00	799	78.00	208	143.00	168
37.00	1570	61.00	1311	79.00	659	174.00	23136
38.00	1558	62.00	1138	81.00	570	175.00	1415
39.00	573	63.00	857	87.00	1492	176.00	22560
44.00	55	68.00	2850	88.00	1404	177.00	1494
45.00	187	69.00	3087	92.00	789	191.00	263
47.00	212	73.00	1117	93.00	1378	208.00	37
49.00	1010	74.00	5264	94.00	3703	209.00	371
50.00	5505	75.00	15132	95.00	31960	281.00	60
51.00	1873	76.00	1399	96.00	2000		
56.00	403	77.00	179	133.00	358		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1774.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 01-NOV-2011 16:30
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : BFB
Misc Info :
Comment :
Method : \\densvr03\public\chem\MSV\GCMS1.i\110111I.b\bfb390.m
Meth Date : 02-Feb-2011 07:10 dobranskym Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC088

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
4.954	4.938	(0.000)	95	66776			0.00- 100.00	100.00
4.954	4.938	(0.000)	50	11379			15.00- 40.00	17.04
4.954	4.938	(0.000)	75	33320			30.00- 60.00	49.90
4.954	4.938	(0.000)	96	4847			5.00- 9.00	7.26
4.954	4.938	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.954	4.938	(0.000)	174	55176			50.00- 0.00	82.63
4.954	4.938	(0.000)	175	4007			5.00- 9.00	7.26
4.954	4.938	(0.000)	176	54232			95.00- 101.00	98.29
4.954	4.938	(0.000)	177	3567			5.00- 9.00	6.58

Data File: ms1774.D

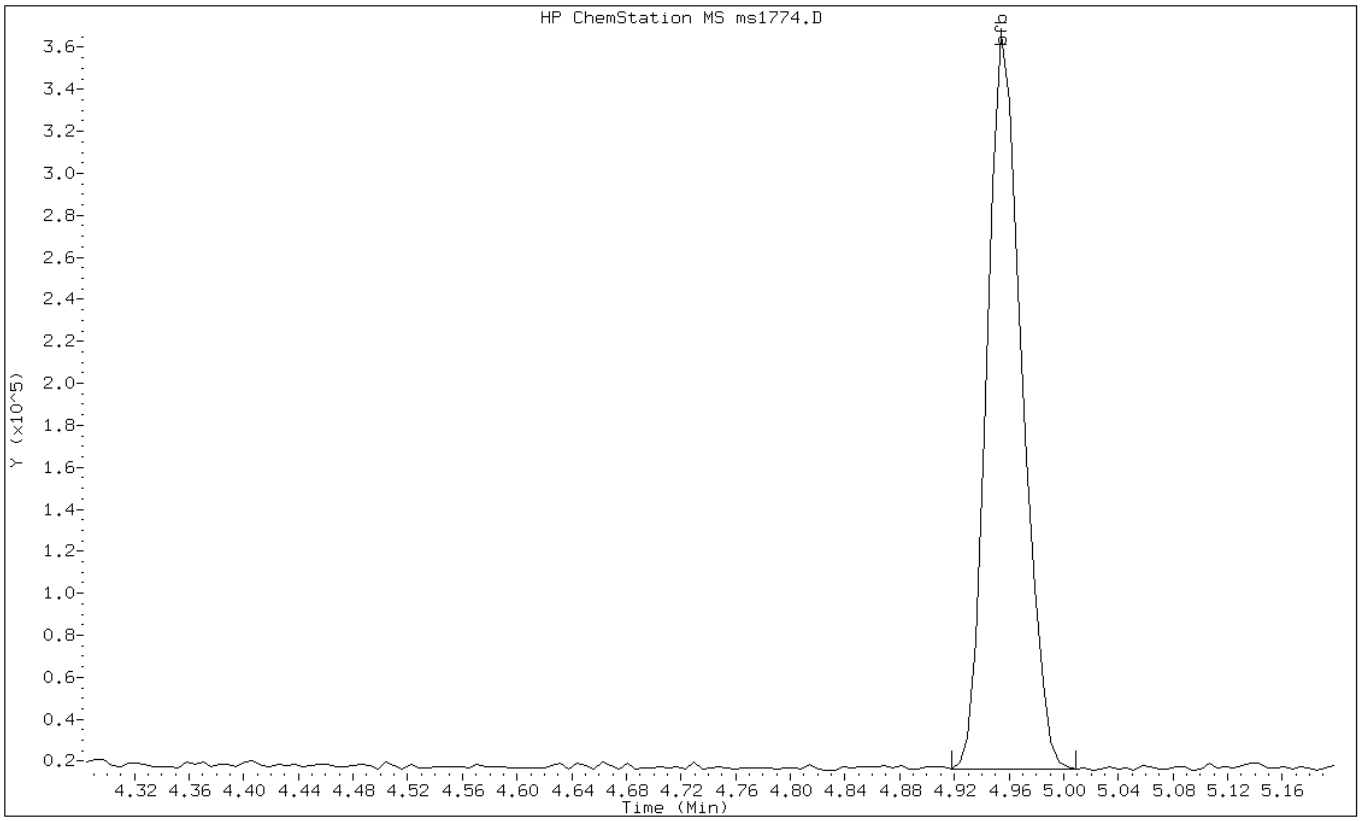
Date: 01-NOV-2011 16:30

Client ID: BFB

Instrument: GCMS1.i

Sample Info: BFB

Operator: STOLTZK



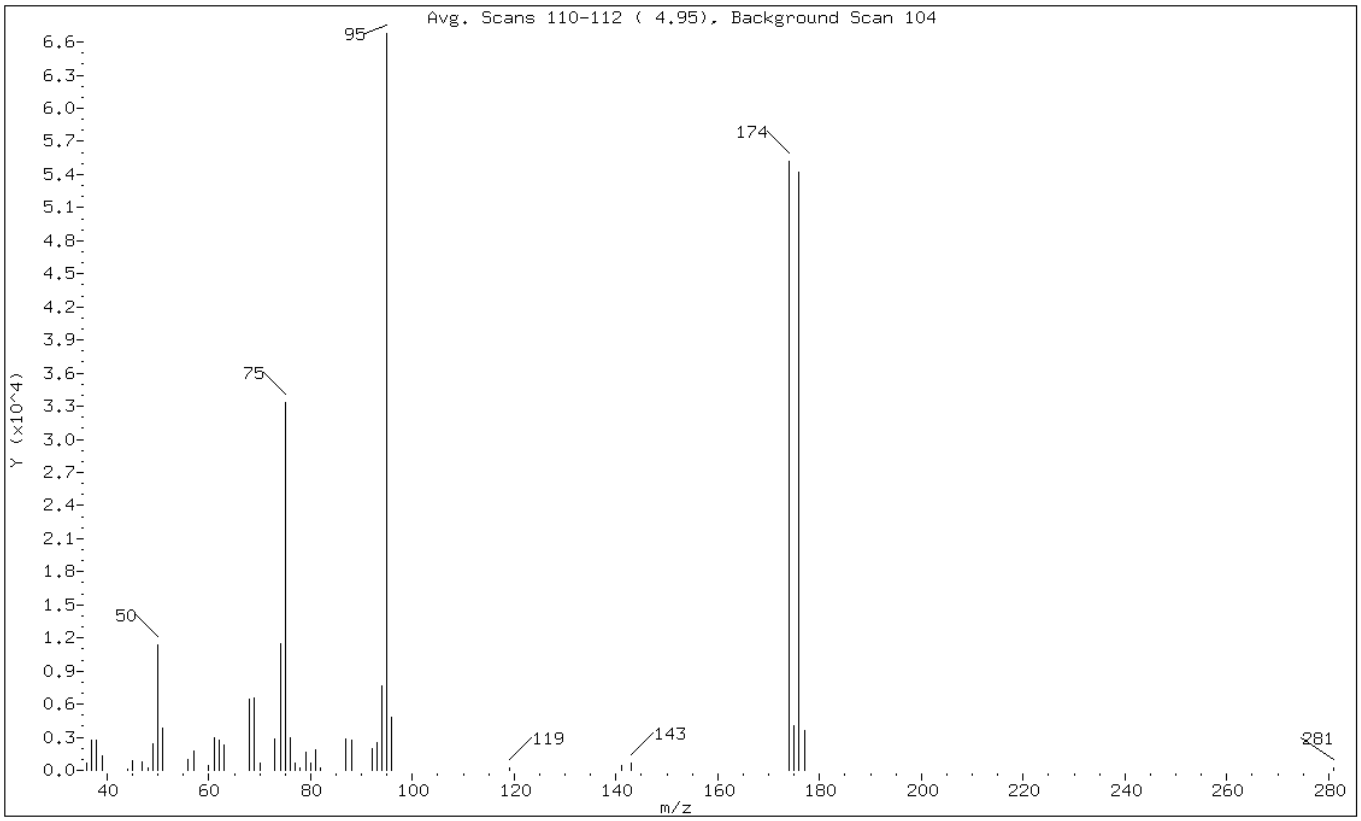
Data File: ms1774.D

Date: 01-NOV-2011 16:30

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB Operator: STOLTZK

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.04
75	30.00 - 60.00% of mass 95	49.90
96	5.00 - 9.00% of mass 95	7.26
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.63
175	5.00 - 9.00% of mass 174	6.00 (7.26)
176	95.00 - 101.00% of mass 174	81.21 (98.29)
177	5.00 - 9.00% of mass 176	5.34 (6.58)

Data File: ms1774.D

Date: 01-NOV-2011 16:30

Client ID: BFB

Instrument: GCMS1.i

Sample Info: BFB

Operator: STOLTZK

Data File: \\DenSvr03\Public\chem\MSV\GCMS1.i\110111I.b\ms1774.D
Spectrum: Avg. Scans 110-112 (4.95), Background Scan 104
Location of Maximum: 95.00
Number of points: 45

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	688	57.00	1776	77.00	624	96.00	4847
37.00	2698	60.00	385	78.00	198	119.00	176
38.00	2683	61.00	3000	79.00	1652	141.00	440
39.00	1259	62.00	2726	80.00	638	143.00	632
44.00	157	63.00	2285	81.00	1852	174.00	55176
45.00	923	68.00	6468	82.00	192	175.00	4007
47.00	754	69.00	6612	87.00	2870	176.00	54232
48.00	184	70.00	640	88.00	2749	177.00	3567
49.00	2351	73.00	2833	92.00	1920	281.00	187
50.00	11379	74.00	11463	93.00	2558		
51.00	3843	75.00	33320	94.00	7672		
56.00	945	76.00	2912	95.00	66776		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\110211.b\ms1805.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 02-NOV-2011 07:52
Operator : STOLTZK Inst ID: GCMS1.i
Smp Info : BFB
Misc Info :
Comment   :
Method   : \\densvr03\public\chem\MSV\GCMS1.i\110211.b\bfb390.m
Meth Date : 02-Feb-2011 07:10 dobranskym Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC088

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.960	4.938	(0.000)	95	54304			0.00- 100.00	100.00
4.960	4.938	(0.000)	50	9324			15.00- 40.00	17.17
4.960	4.938	(0.000)	75	25736			30.00- 60.00	47.39
4.960	4.938	(0.000)	96	3980			5.00- 9.00	7.33
4.960	4.938	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
4.960	4.938	(0.000)	174	43488			50.00- 0.00	80.08
4.960	4.938	(0.000)	175	3559			5.00- 9.00	8.18
4.960	4.938	(0.000)	176	42584			95.00- 101.00	97.92
4.960	4.938	(0.000)	177	2933			5.00- 9.00	6.89

Data File: ms1805.D

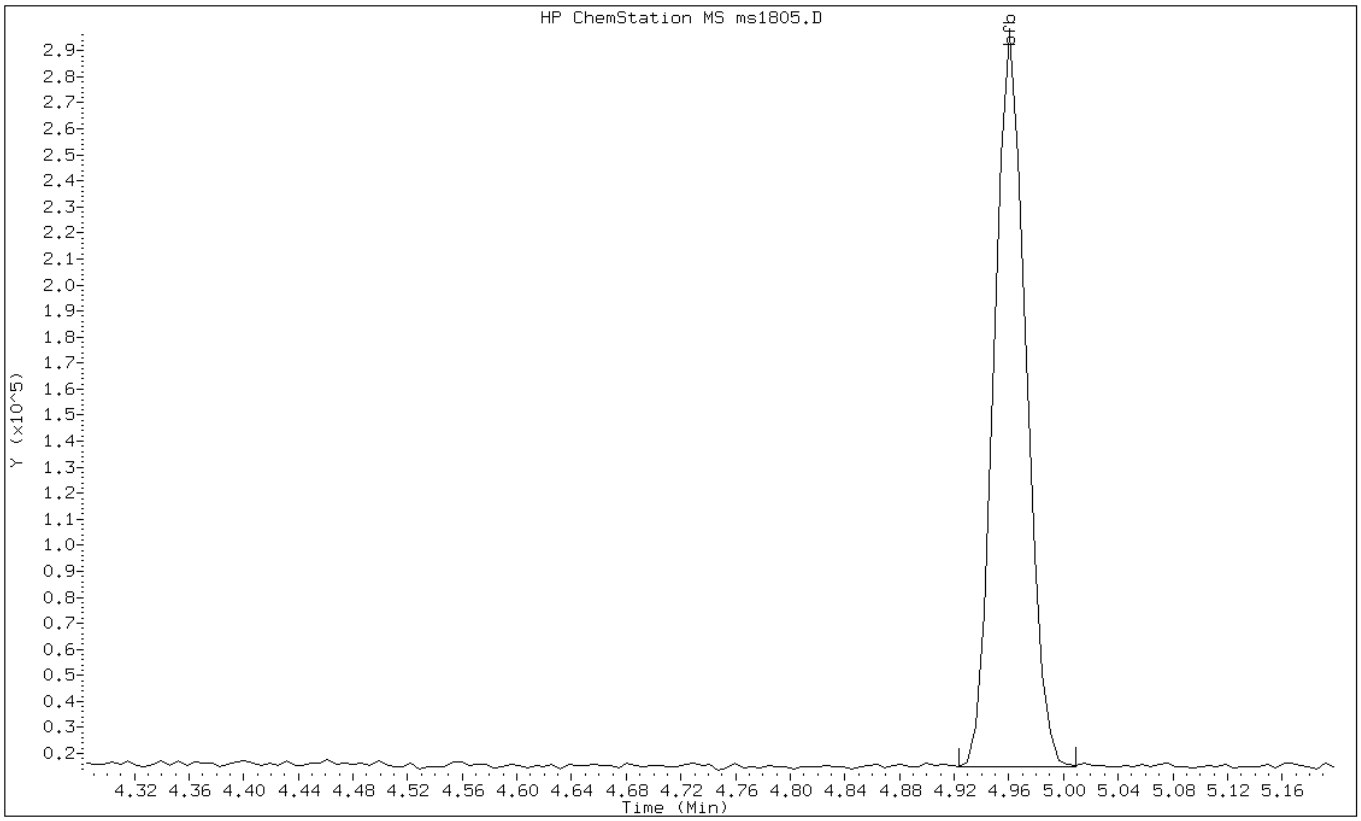
Date: 02-NOV-2011 07:52

Client ID: BFB

Instrument: GCMS1.i

Sample Info: BFB

Operator: STOLTZK



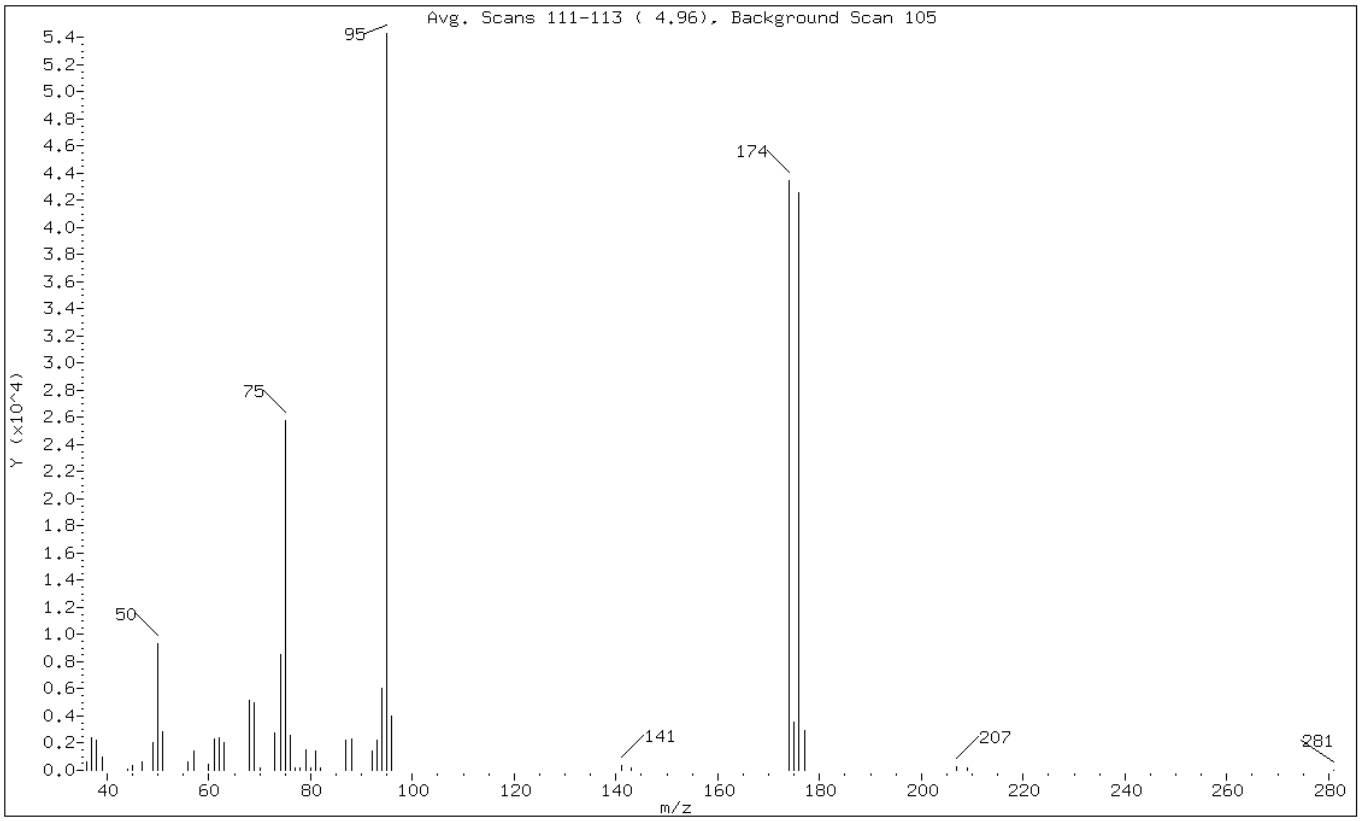
Data File: ms1805.D

Date: 02-NOV-2011 07:52

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB Operator: STOLTZK

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.17
75	30.00 - 60.00% of mass 95	47.39
96	5.00 - 9.00% of mass 95	7.33
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	80.08
175	5.00 - 9.00% of mass 174	6.55 (8.18)
176	95.00 - 101.00% of mass 174	78.42 (97.92)
177	5.00 - 9.00% of mass 176	5.40 (6.89)

Data File: ms1805.D

Date: 02-NOV-2011 07:52

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB Operator: STOLTZK

Data File: \\DenSvr03\Public\chem\MSV\GCMS1.i\110211.b\ms1805.D
Spectrum: Avg. Scans 111-113 (4.96), Background Scan 105
Location of Maximum: 95.00
Number of points: 45

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	616	60.00	467	78.00	176	141.00	373
37.00	2382	61.00	2331	79.00	1496	143.00	210
38.00	2211	62.00	2382	80.00	198	174.00	43488
39.00	935	63.00	2039	81.00	1463	175.00	3559
44.00	98	68.00	5132	82.00	171	176.00	42584
45.00	363	69.00	4973	87.00	2210	177.00	2933
47.00	619	70.00	222	88.00	2283	207.00	255
49.00	2019	73.00	2727	92.00	1450	209.00	218
50.00	9324	74.00	8576	93.00	2258	281.00	27
51.00	2823	75.00	25736	94.00	6045		
56.00	640	76.00	2592	95.00	54304		
57.00	1402	77.00	186	96.00	3980		

TestAmerica

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\ms2833.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-NOV-2011 17:20
Operator : SEIFERTJ Inst ID: GCMS1.i
Smp Info : BFB
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\bfb390.m
Meth Date : 02-Feb-2011 07:10 dobranskym Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: DENPC251

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
VI	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	REL RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
4.954	4.938	(0.000)	95	95280			0.00- 100.00	100.00
4.954	4.938	(0.000)	50	17376			15.00- 40.00	18.24
4.954	4.938	(0.000)	75	45552			30.00- 60.00	47.81
4.954	4.938	(0.000)	96	6558			5.00- 9.00	6.88
4.954	4.938	(0.000)	173	179			0.00- 2.00	0.24
4.954	4.938	(0.000)	174	76168			50.00- 0.00	79.94
4.954	4.938	(0.000)	175	5194			5.00- 9.00	6.82
4.954	4.938	(0.000)	176	72664			95.00- 101.00	95.40
4.954	4.938	(0.000)	177	4839			5.00- 9.00	6.66

Data File: ms2833.D

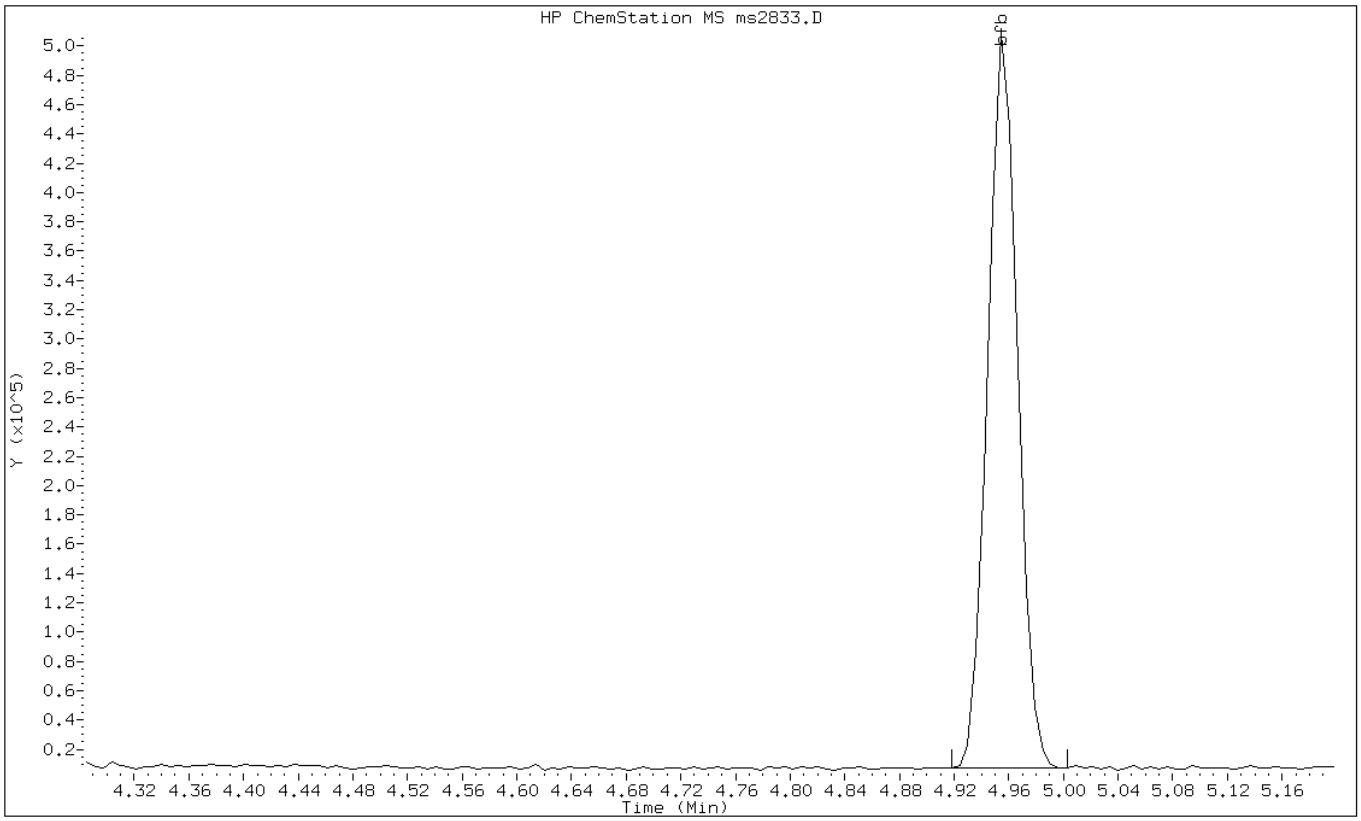
Date: 28-NOV-2011 17:20

Client ID: BFB

Instrument: GCMS1.i

Sample Info: BFB

Operator: SEIFERTJ



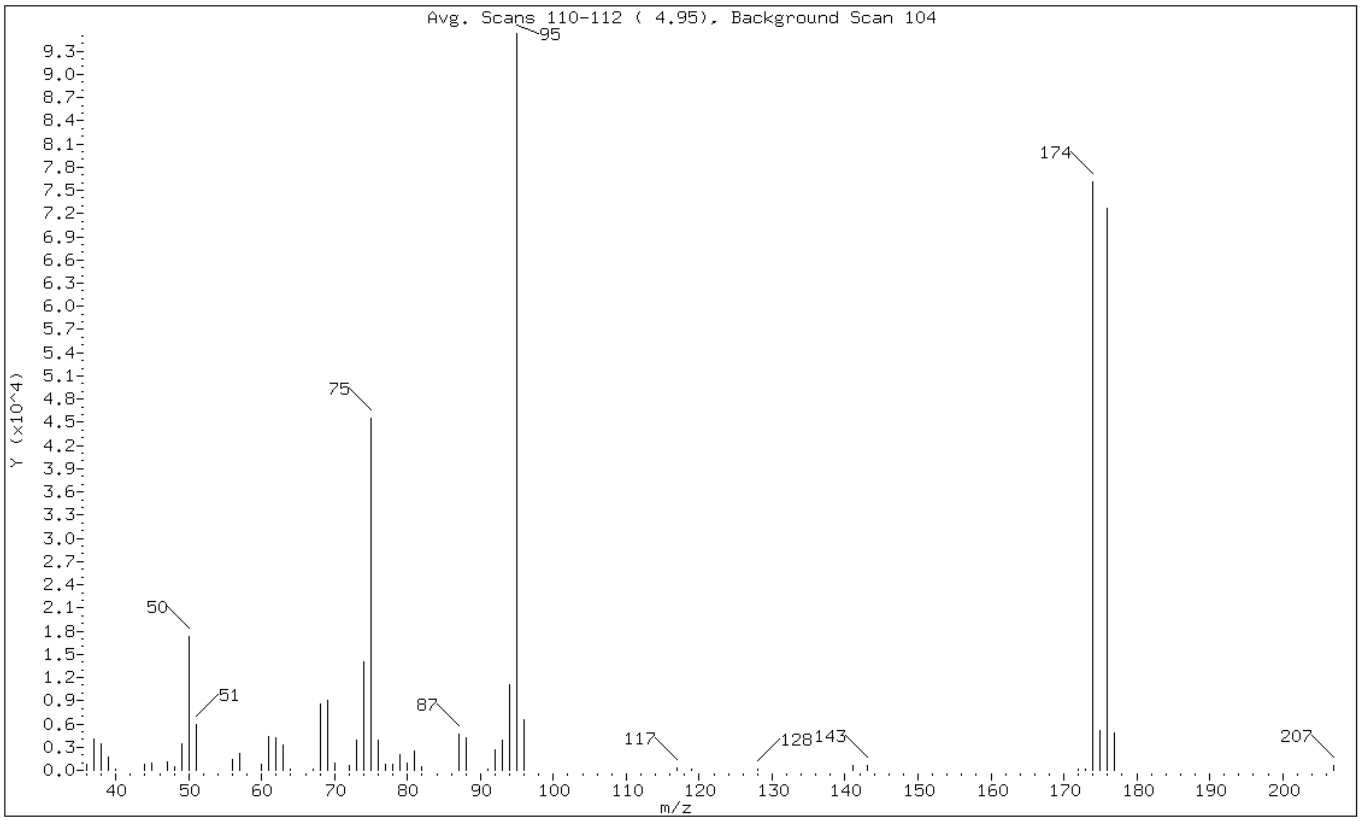
Data File: ms2833.D

Date: 28-NOV-2011 17:20

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB Operator: SEIFERTJ

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.24
75	30.00 - 60.00% of mass 95	47.81
96	5.00 - 9.00% of mass 95	6.88
173	Less than 2.00% of mass 174	0.19 (0.24)
174	Greater than 50.00% of mass 95	79.94
175	5.00 - 9.00% of mass 174	5.45 (6.82)
176	95.00 - 101.00% of mass 174	76.26 (95.40)
177	5.00 - 9.00% of mass 176	5.08 (6.66)

Data File: ms2833.D

Date: 28-NOV-2011 17:20

Client ID: BFB Instrument: GCMS1.i

Sample Info: BFB Operator: SEIFERTJ

Data File: \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\ms2833.D
Spectrum: Avg. Scans 110-112 (4.95), Background Scan 104
Location of Maximum: 95.00
Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	805	60.00	839	77.00	709	117.00	290
37.00	4110	61.00	4341	78.00	798	119.00	170
38.00	3402	62.00	4139	79.00	2071	128.00	233
39.00	1679	63.00	3211	80.00	890	141.00	608
40.00	95	64.00	169	81.00	2488	143.00	666
44.00	704	67.00	172	82.00	453	172.00	167
45.00	887	68.00	8611	87.00	4712	173.00	179
47.00	1034	69.00	9101	88.00	4271	174.00	76168
48.00	416	70.00	913	91.00	186	175.00	5194
49.00	3453	72.00	638	92.00	2679	176.00	72664
50.00	17376	73.00	3974	93.00	3835	177.00	4839
51.00	5906	74.00	14093	94.00	11028	207.00	579
56.00	1462	75.00	45552	95.00	95280		
57.00	2259	76.00	3894	96.00	6558		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-97860/5

Matrix: Water | Lab File ID: ms2837.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 18:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-97860/5

Matrix: Water Lab File ID: ms2837.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/28/2011 18:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 97860 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.490	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-97860/5

Matrix: Water Lab File ID: ms2837.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/28/2011 18:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 97860 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		78-120
1868-53-7	Dibromofluoromethane (Surr)	95		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-127
2037-26-5	Toluene-d8 (Surr)	99		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\ms2837.D
Lab Smp Id: MB
Inj Date : 28-NOV-2011 18:42
Operator : SEIFERTJ   Inst ID: GCMS1.i
Smp Info : MB,, AF
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\8260B-H2O.m
Meth Date : 28-Nov-2011 23:49 seifertj   Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41   Cal File: ms1801.D
Als bottle: 2   QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC088

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 69 Fluorobenzene	96	8.340	8.339	(1.000)	1361907	12.5000		
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	279014	12.5000		
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	373066	12.5000		(Q)
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	516431	9.52422	9.52422	
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	401205	9.43089	9.43089	
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	2515013	9.92767	9.92767	
$ 106 4-Bromofluorobenzene (Surr)	95	11.482	11.482	(0.916)	627268	9.24242	9.24242	
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M 2 Xylene (total)	106	Compound Not Detected.						
5 dichlorodifluoromethane	85	Compound Not Detected.						
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
7 Chloromethane	50	Compound Not Detected.						
8 Vinyl Chloride	62	Compound Not Detected.						
9 Ethylene Oxide	43	Compound Not Detected.						
10 Bromomethane	94	Compound Not Detected.						
11 Chloroethane	64	Compound Not Detected.						
12 Dichlorofluoromethane	67	Compound Not Detected.						
14 Trichlorofluoromethane	101	Compound Not Detected.						
13 Ethanol	45	Compound Not Detected.						
15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.						
17 Ethyl Ether	59	Compound Not Detected.						
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18 Propylene Oxide	58	Compound Not Detected.					
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	Compound Not Detected.					
27 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
28 Methyl Acetate	43	Compound Not Detected.					
31 Carbon Disulfide	76	Compound Not Detected.					
29 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
33 Methylene Chloride	84	6.482	6.482	(0.777)	25140	0.48993	0.489927(a)
34 Acrylonitrile	53	Compound Not Detected.					
35 Methyl t-butyl ether	73	Compound Not Detected.					
36 trans-1,2-Dichloroethene	96	Compound Not Detected.					
40 Hexane	57	Compound Not Detected.					
42 Vinyl acetate	43	Compound Not Detected.					
43 Isopropyl ether	87	Compound Not Detected.					
44 1,1-Dichloroethane	63	Compound Not Detected.					
46 Chloroprene	53	Compound Not Detected.					
48 ETBE	59	Compound Not Detected.					
50 2-Butanone	43	Compound Not Detected.					
49 Ethyl Acetate	43	Compound Not Detected.					
52 cis-1,2-Dichloroethene	96	Compound Not Detected.					
51 Propionitrile	54	Compound Not Detected.					
53 2,2-Dichloropropane	77	Compound Not Detected.					
54 Methacrylonitrile	41	Compound Not Detected.					
55 Bromochloromethane	128	Compound Not Detected.					
56 Chloroform	83	Compound Not Detected.					
57 Tetrahydrofuran	42	Compound Not Detected.					
60 1,1,1-Trichloroethane	97	Compound Not Detected.					
59 Isobutanol	41	Compound Not Detected.					
61 Cyclohexane	56	Compound Not Detected.					
62 1,1-Dichloropropene	75	Compound Not Detected.					
63 Carbon Tetrachloride	117	Compound Not Detected.					
65 1,2-Dichloroethane	62	Compound Not Detected.					
67 Benzene	78	Compound Not Detected.					
66 TAME	73	Compound Not Detected.					
68 n-Butanol	56	Compound Not Detected.					
71 Trichloroethene	130	Compound Not Detected.					
72 2-Pentanone	43	Compound Not Detected.					
73 Methyl Methacrylate	100	Compound Not Detected.					
74 1,2-Dichloropropane	63	Compound Not Detected.					
75 Methyl Cyclohexane	55	Compound Not Detected.					
76 1,4-Dioxane	88	Compound Not Detected.					
77 Dibromomethane	93	Compound Not Detected.					
78 Bromodichloromethane	83	Compound Not Detected.					
79 2-nitropropane	41	Compound Not Detected.					
80 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
81 cis-1,3-Dichloropropene	75	Compound Not Detected.					
82 4-Methyl-2-pentanone	43	Compound Not Detected.					
84 Toluene	91	Compound Not Detected.					
86 trans-1,3-Dichloropropene	75	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
85	Ethyl methacrylate	69	Compound Not Detected.					
87	1,1,2-Trichloroethane	97	Compound Not Detected.					
88	2-Hexanone	43	Compound Not Detected.					
89	1,3-Dichloropropane	76	Compound Not Detected.					
90	Tetrachloroethene	164	Compound Not Detected.					
91	Dibromochloromethane	129	Compound Not Detected.					
92	Tetrahydrothiophene	60	Compound Not Detected.					
93	1,2-Dibromoethane	107	Compound Not Detected.					
94	1-Chlorohexane	91	Compound Not Detected.					
96	Chlorobenzene	112	Compound Not Detected.					
97	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
98	Ethylbenzene	106	Compound Not Detected.					
99	m and p-Xylene	106	Compound Not Detected.					
101	o-Xylene	106	Compound Not Detected.					
100	Styrene	104	Compound Not Detected.					
102	Bromoform	173	Compound Not Detected.					
103	isopropyl benzene	105	Compound Not Detected.					
104	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
105	Cyclohexanone	55	Compound Not Detected.					
107	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
108	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
109	1,2,3-Trichloropropane	110	Compound Not Detected.					
111	Bromobenzene	156	Compound Not Detected.					
110	n-Propylbenzene	120	Compound Not Detected.					
113	2-Chlorotoluene	126	Compound Not Detected.					
112	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
114	4-Chlorotoluene	126	Compound Not Detected.					
115	tert-Butylbenzene	119	Compound Not Detected.					
116	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
118	sec-Butylbenzene	134	Compound Not Detected.					
119	4-Isopropyltoluene	119	Compound Not Detected.					
120	1,3-Dichlorobenzene	146	Compound Not Detected.					
122	1,4-dichlorobenzene	146	Compound Not Detected.					
123	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124	n-Butylbenzene	91	Compound Not Detected.					
126	1,2-Dichlorobenzene	146	Compound Not Detected.					
127	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
129	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
130	Hexachlorobutadiene	225	Compound Not Detected.					
131	Naphthalene	128	Compound Not Detected.					
132	1,2,3-Trichlorobenzene	180	Compound Not Detected.					
144	Dichloroacetonitrile tic	74	Compound Not Detected.					
145	2,3-Dichloro-1-propene tic	75	Compound Not Detected.					

QC Flag Legend

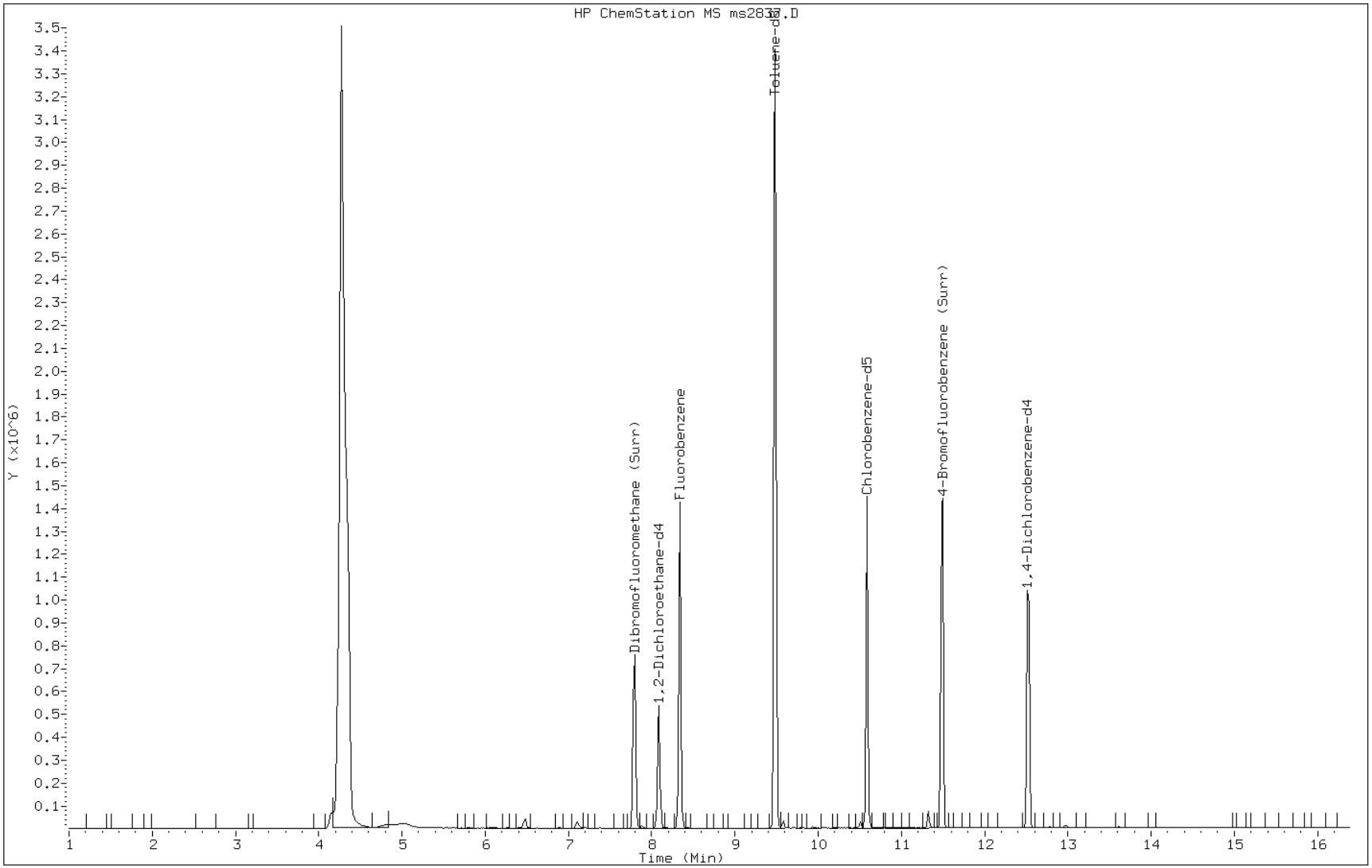
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms2837.D

Date: 28-NOV-2011 18:42

Client ID: Instrument: GCMS1.i

Sample Info: MB,, AF Operator: SEIFERTJ



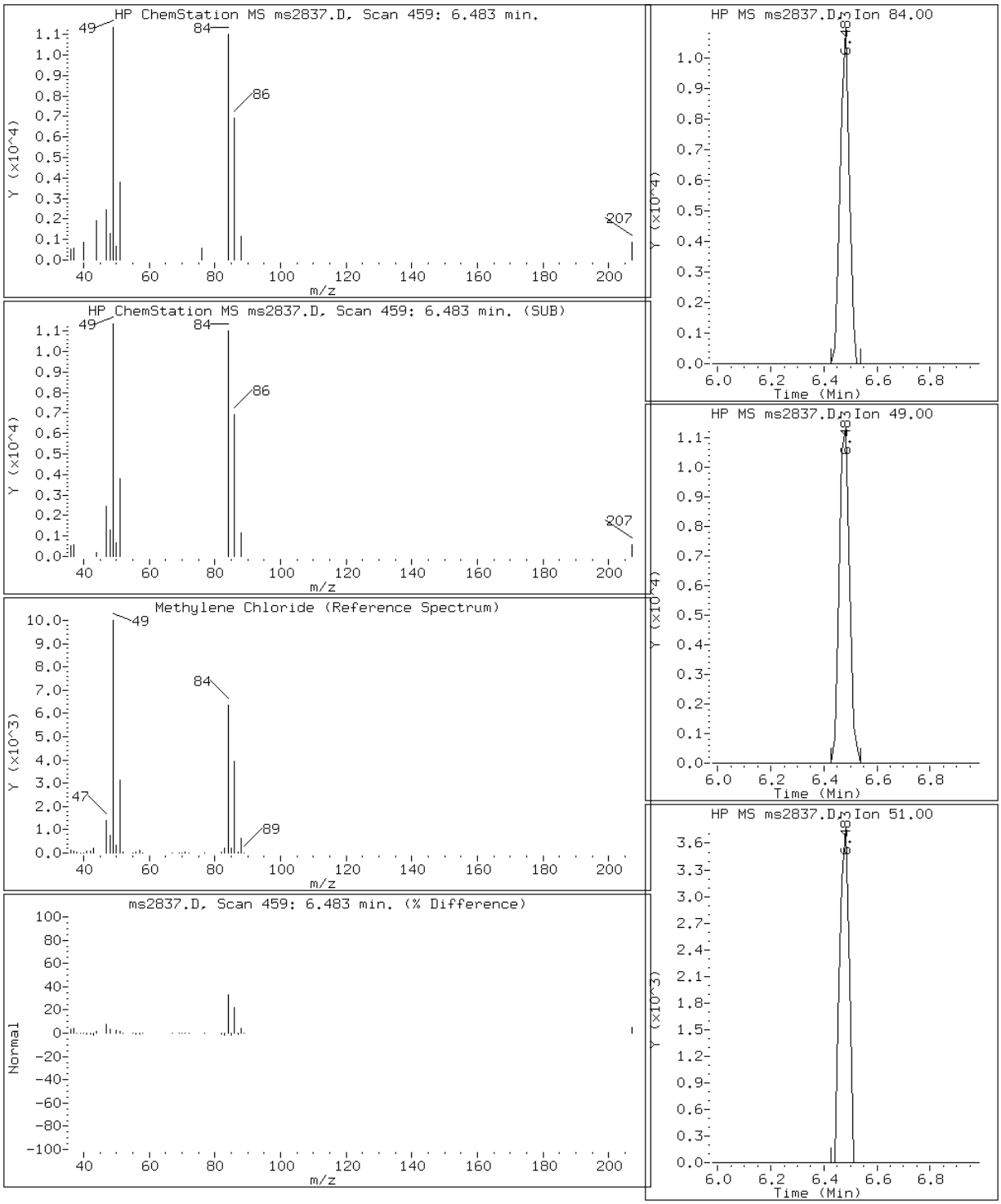
Data File: ms2837.D

Date: 28-NOV-2011 18:42

Client ID: Instrument: GCMS1.i

Sample Info: MB,, AF Operator: SEIFERTJ

33 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-98185/5

Matrix: Water | Lab File ID: E4806.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 21:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-98185/5

Matrix: Water | Lab File ID: E4806.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 21:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.618	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-98185/5

Matrix: Water Lab File ID: E4806.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 21:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
1868-53-7	Dibromofluoromethane (Surr)	89		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		70-127
2037-26-5	Toluene-d8 (Surr)	107		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4806.D
Lab Smp Id: MB
Inj Date : 29-NOV-2011 21:59
Operator : TINKHAMS Inst ID: E.i
Smp Info : MB,, 1119179/1119180
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	61 Fluorobenzene	96	8.167	8.166	(1.000)	1876793	12.5000		
*	87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	349565	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	445805	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	359469	11.5453	11.5453	
$	57 1,2-Dichloroethane-d4	65	7.909	7.916	(0.968)	286190	11.2962	11.2962	
$	75 Toluene-d8	98	9.347	9.346	(0.893)	1827430	13.9546	13.9546	
$	98 4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	509077	13.2382	13.2382	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.279	6.272	(0.769)	22977	0.61754	0.617540(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

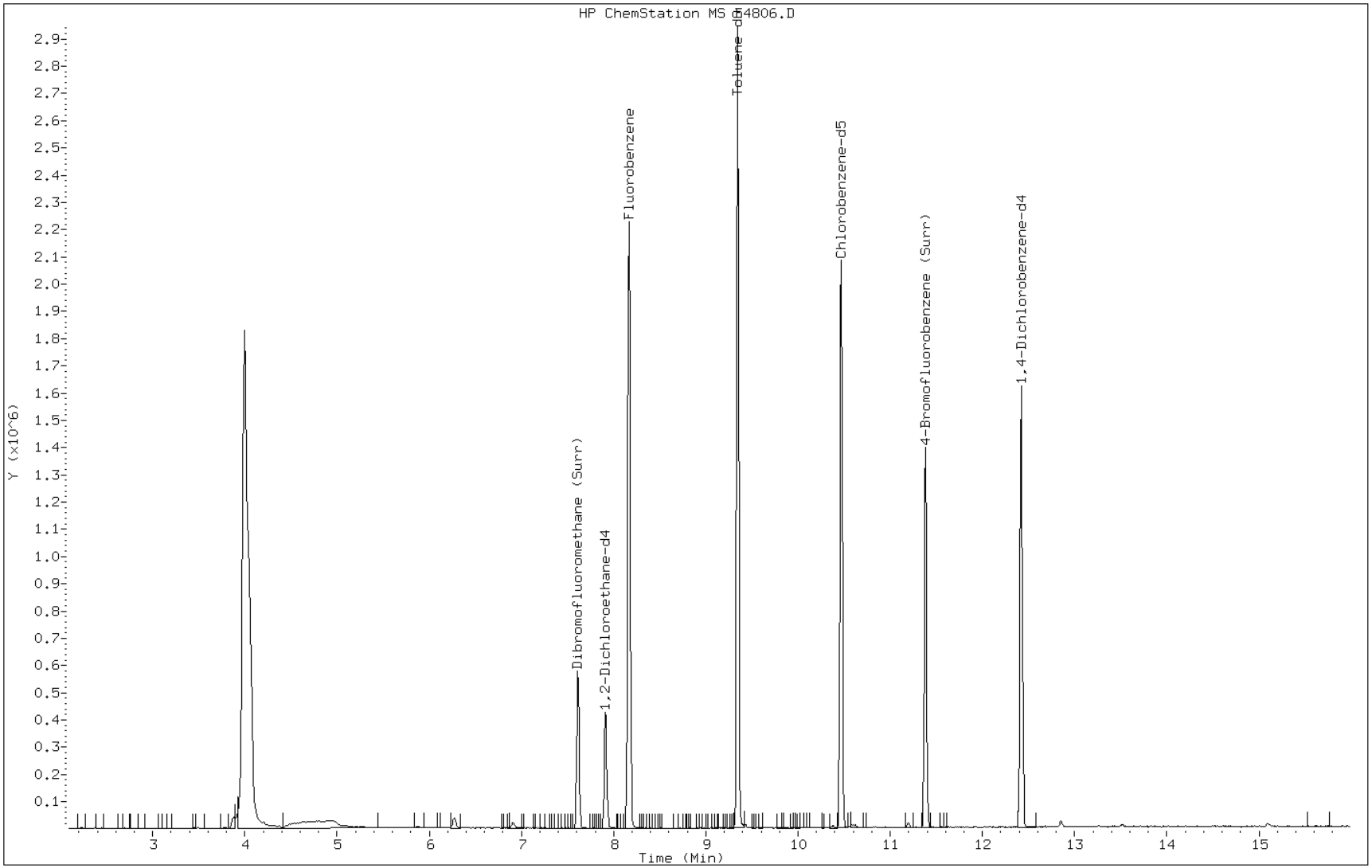
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4806.D

Date: 29-NOV-2011 21:59

Client ID: Instrument: E.i

Sample Info: MB,, 1119179/1119180 Operator: TINKHAMS



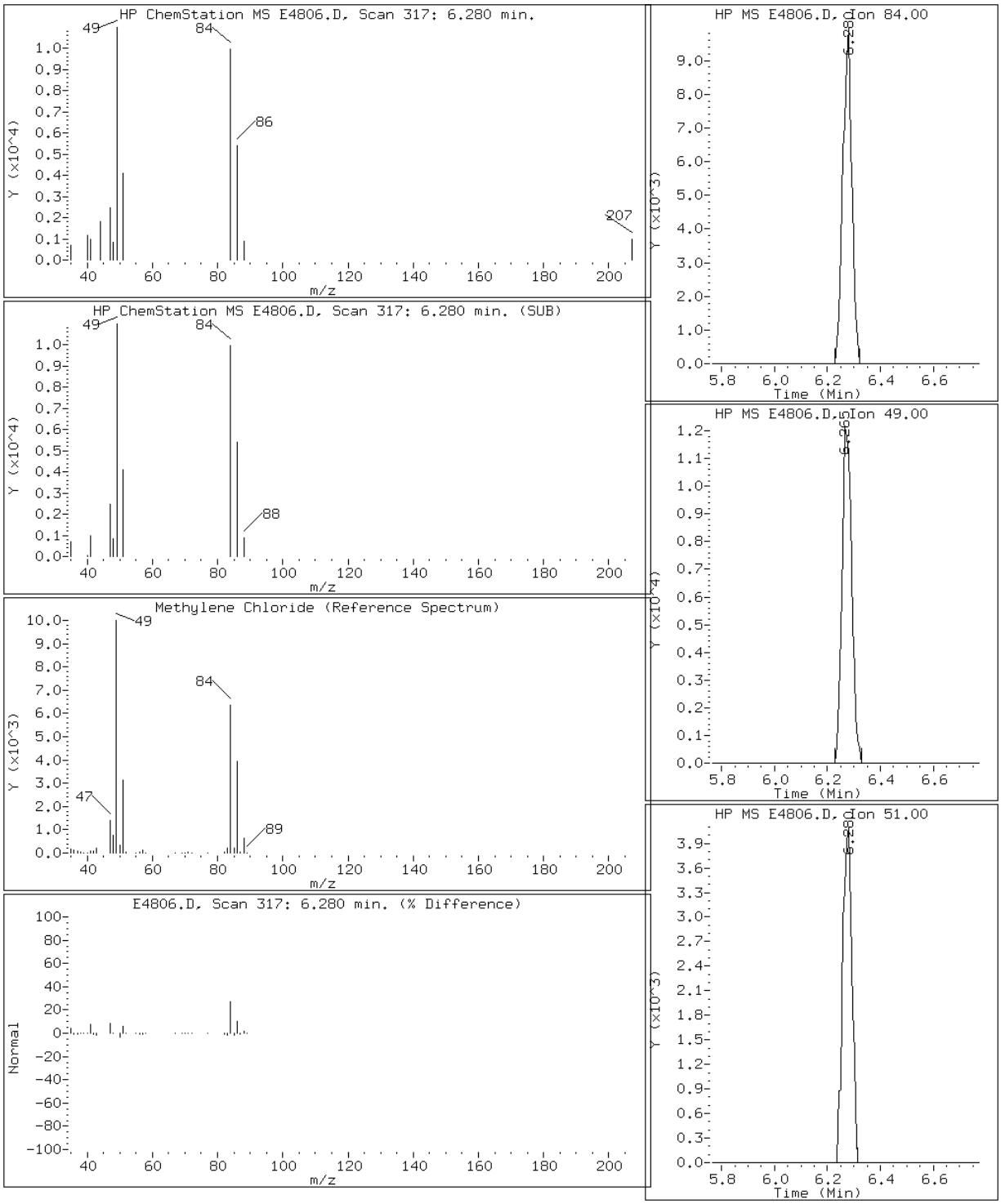
Data File: E4806.D

Date: 29-NOV-2011 21:59

Client ID: Instrument: E.i

Sample Info: MB,, 1119179/1119180 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-98252/5

Matrix: Water | Lab File ID: E4869.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 19:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.12	U	1.0	0.12
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-98252/5

Matrix: Water | Lab File ID: E4869.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 19:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.843	J	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.14	U	1.0	0.14
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-98252/5

Matrix: Water Lab File ID: E4869.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 19:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98252 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-127
2037-26-5	Toluene-d8 (Surr)	107		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4869.D
Lab Smp Id: MB
Inj Date : 30-NOV-2011 19:57
Operator : TINKHAMS Inst ID: E.i
Smp Info : MB,, 1119179/1119180
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\8260B-H2O.m
Meth Date : 30-Nov-2011 19:48 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	
*	61 Fluorobenzene	96	8.167	8.166	(1.000)	1783140	12.5000		
*	87 Chlorobenzene-d5	119	10.469	10.468	(1.000)	353461	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.420	(1.000)	452097	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	362406	12.2510	12.2510	
$	57 1,2-Dichloroethane-d4	65	7.909	7.908	(0.968)	287149	11.9293	11.9293	
$	75 Toluene-d8	98	9.339	9.346	(0.892)	1842399	13.9138	13.9138	
$	98 4-Bromofluorobenzene (Surr)	95	11.384	11.383	(0.917)	519497	13.3212	13.3212	
M	1 1,2-Dichloroethene (total)	96	Compound Not Detected.						
M	2 Xylene (total)	106	Compound Not Detected.						
	6 dichlorodifluoromethane	85	Compound Not Detected.						
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	Compound Not Detected.						
	9 Vinyl Chloride	62	Compound Not Detected.						
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	Compound Not Detected.						
	13 Chloroethane	64	Compound Not Detected.						
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	Compound Not Detected.						
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	Compound Not Detected.					
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	Compound Not Detected.					
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	Compound Not Detected.					
31 Methylene Chloride	84	6.265	6.271	(0.767)	29807	0.84318	0.843182(a)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	Compound Not Detected.					
34 trans-1,2-Dichloroethene	96	Compound Not Detected.					
35 Hexane	57	Compound Not Detected.					
36 Vinyl acetate	43	Compound Not Detected.					
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	Compound Not Detected.					
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	Compound Not Detected.					
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	Compound Not Detected.					
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	Compound Not Detected.					
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	Compound Not Detected.					
49 Chloroform	83	Compound Not Detected.					
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	Compound Not Detected.					
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	Compound Not Detected.					
56 Carbon Tetrachloride	117	Compound Not Detected.					
58 1,2-Dichloroethane	62	Compound Not Detected.					
60 Benzene	78	Compound Not Detected.					
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	Compound Not Detected.					
64 2-Pentanone	43	Compound Not Detected.					
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	Compound Not Detected.					
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	Compound Not Detected.					
70 Bromodichloromethane	83	Compound Not Detected.					
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	Compound Not Detected.					
74 4-Methyl-2-pentanone	43	Compound Not Detected.					
76 Toluene	91	Compound Not Detected.					
78 trans-1,3-Dichloropropene	75	Compound Not Detected.					
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	Compound Not Detected.					
80	2-Hexanone	43	Compound Not Detected.					
81	1,3-Dichloropropane	76	Compound Not Detected.					
82	Tetrachloroethene	164	Compound Not Detected.					
83	Dibromochloromethane	129	Compound Not Detected.					
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	Compound Not Detected.					
86	1-Chlorohexane	91	Compound Not Detected.					
88	Chlorobenzene	112	Compound Not Detected.					
89	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
90	Ethylbenzene	106	Compound Not Detected.					
91	m and p-Xylene	106	Compound Not Detected.					
92	o-Xylene	106	Compound Not Detected.					
93	Styrene	104	Compound Not Detected.					
94	Bromoform	173	Compound Not Detected.					
95	isopropyl benzene	105	Compound Not Detected.					
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	Compound Not Detected.					
99	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
100	t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
101	1,2,3-Trichloropropane	110	Compound Not Detected.					
103	Bromobenzene	156	Compound Not Detected.					
102	n-Propylbenzene	120	Compound Not Detected.					
105	2-Chlorotoluene	126	Compound Not Detected.					
104	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
106	4-Chlorotoluene	126	Compound Not Detected.					
107	tert-Butylbenzene	119	Compound Not Detected.					
108	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
109	sec-Butylbenzene	134	Compound Not Detected.					
110	4-Isopropyltoluene	119	Compound Not Detected.					
111	1,3-Dichlorobenzene	146	Compound Not Detected.					
113	1,4-dichlorobenzene	146	Compound Not Detected.					
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	Compound Not Detected.					
116	1,2-Dichlorobenzene	146	Compound Not Detected.					
117	1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
118	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
119	Hexachlorobutadiene	225	Compound Not Detected.					
120	Naphthalene	128	Compound Not Detected.					
121	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

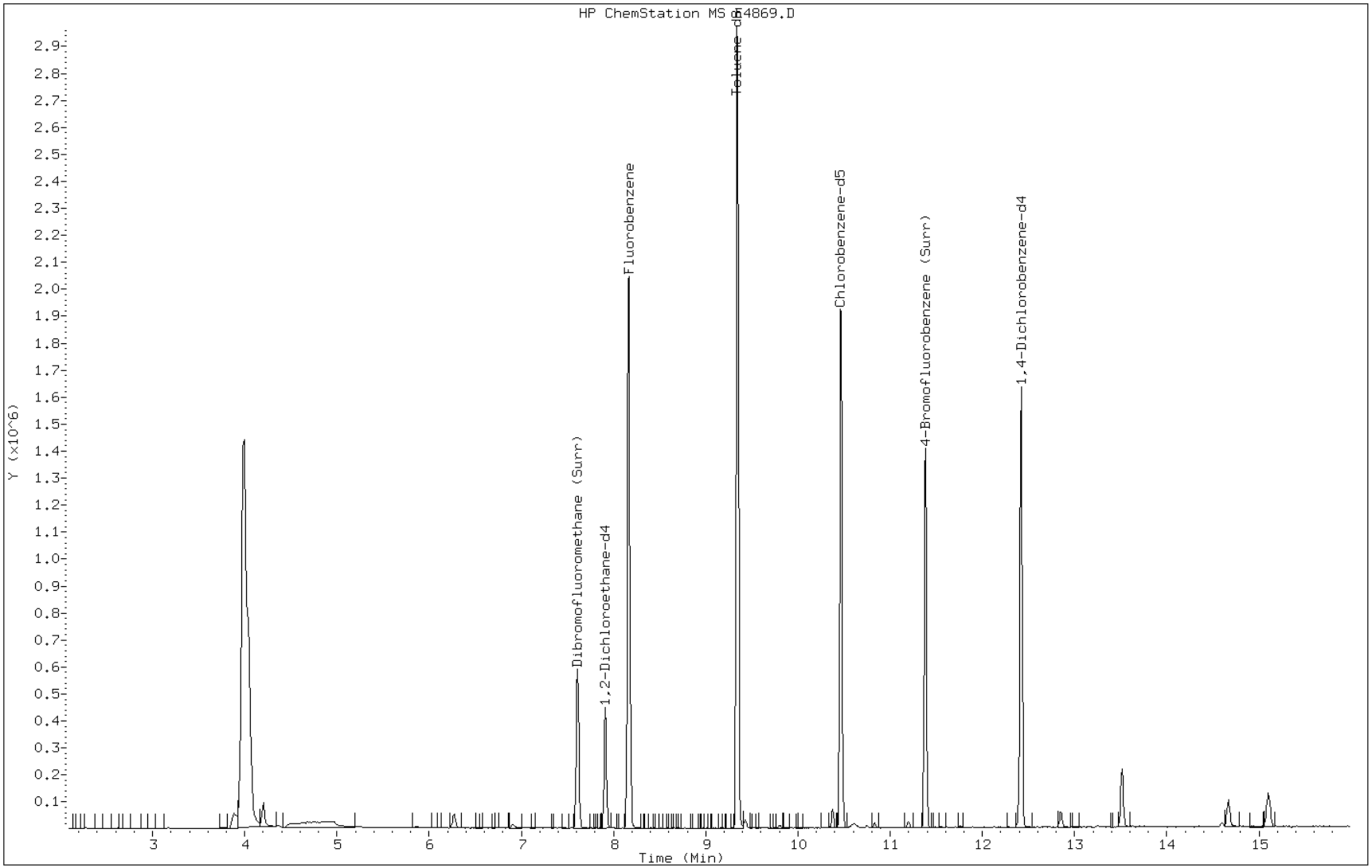
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4869.D

Date: 30-NOV-2011 19:57

Client ID: Instrument: E.i

Sample Info: MB,, 1119179/1119180 Operator: TINKHAMS



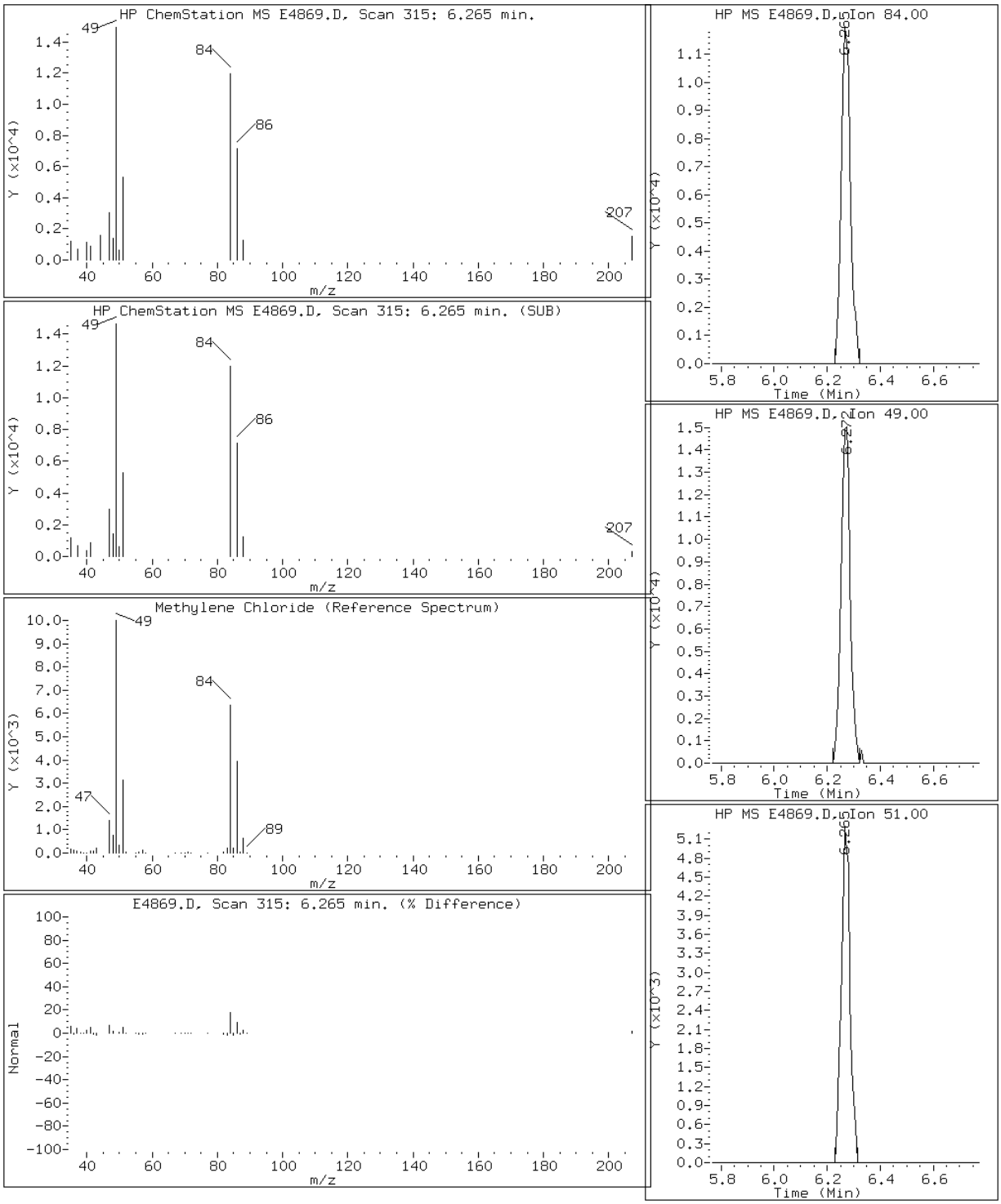
Data File: E4869.D

Date: 30-NOV-2011 19:57

Client ID: Instrument: E.i

Sample Info: MB,, 1119179/1119180 Operator: TINKHAMS

31 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-97860/4

Matrix: Water | Lab File ID: ms2836.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 18:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	18.8		10	1.9
71-43-2	Benzene	5.57		1.0	0.16
108-86-1	Bromobenzene	4.56		1.0	0.17
75-27-4	Bromodichloromethane	4.99		1.0	0.17
75-25-2	Bromoform	3.94		1.0	0.19
74-83-9	Bromomethane	4.35		2.0	0.21
78-93-3	2-Butanone (MEK)	22.8		6.0	2.0
56-23-5	Carbon tetrachloride	5.05		1.0	0.19
108-90-7	Chlorobenzene	5.05		1.0	0.17
74-97-5	Bromochloromethane	4.44		1.0	0.10
124-48-1	Dibromochloromethane	4.27		1.0	0.17
75-00-3	Chloroethane	5.29		2.0	0.41
67-66-3	Chloroform	5.17		1.0	0.16
74-87-3	Chloromethane	4.31		2.0	0.30
95-49-8	2-Chlorotoluene	5.13		1.0	0.17
106-43-4	4-Chlorotoluene	5.09		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	5.07		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.80		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.70	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.31		1.0	0.18
74-95-3	Dibromomethane	4.63		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.74		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.00		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.99		1.0	0.16
75-71-8	Dichlorodifluoromethane	5.02		2.0	0.31
75-34-3	1,1-Dichloroethane	5.53		1.0	0.22
107-06-2	1,2-Dichloroethane	4.57		1.0	0.13
75-35-4	1,1-Dichloroethene	5.61		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	10.6		1.0	0.24
78-87-5	1,2-Dichloropropane	5.31		1.0	0.18
142-28-9	1,3-Dichloropropane	4.59		1.0	0.22
594-20-7	2,2-Dichloropropane	5.60		1.0	0.18
563-58-6	1,1-Dichloropropene	5.18		1.0	0.19
100-41-4	Ethylbenzene	5.13		1.0	0.16
87-68-3	Hexachlorobutadiene	5.30		1.0	0.12
591-78-6	2-Hexanone	18.8		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-97860/4

Matrix: Water | Lab File ID: ms2836.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 18:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.73		1.0	0.19
99-87-6	4-Isopropyltoluene	5.35		1.0	0.20
75-09-2	Methylene Chloride	5.52		2.0	0.32
108-10-1	4-Methyl-2-pentanone	18.4		5.0	0.98
1634-04-4	Methyl tert-butyl ether	3.89	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	10.7		2.0	0.34
91-20-3	Naphthalene	3.61		1.0	0.22
104-51-8	n-Butylbenzene	5.45		1.0	0.14
103-65-1	n-Propylbenzene	5.06		1.0	0.16
95-47-6	o-Xylene	4.93		1.0	0.19
135-98-8	sec-Butylbenzene	5.02		1.0	0.17
100-42-5	Styrene	4.75		1.0	0.17
98-06-6	tert-Butylbenzene	5.18		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.52		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.69		1.0	0.21
127-18-4	Tetrachloroethene	4.94		1.0	0.20
108-88-3	Toluene	5.57		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	5.56		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.97		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.17		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.45		1.0	0.21
71-55-6	1,1,1-Trichloroethane	5.10		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.77		1.0	0.27
79-01-6	Trichloroethene	5.07		1.0	0.16
75-69-4	Trichlorofluoromethane	5.08		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.36		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.29		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.31		1.0	0.16
75-01-4	Vinyl chloride	4.54		1.0	0.10
1330-20-7	Xylenes, Total	15.6		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-97860/4

Matrix: Water Lab File ID: ms2836.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/28/2011 18:22

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 97860 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		78-120
1868-53-7	Dibromofluoromethane (Surr)	95		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-127
2037-26-5	Toluene-d8 (Surr)	94		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\ms2836.D
Lab Smp Id: LCS
Inj Date : 28-NOV-2011 18:22
Operator : SEIFERTJ   Inst ID: GCMS1.i
Smp Info : LCS,,
Misc Info :
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\8260B-H2O.m
Meth Date : 28-Nov-2011 23:49 seifertj   Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41   Cal File: ms1801.D
Als bottle: 2   QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: lcs-full.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 69 Fluorobenzene	96	8.339	8.339	(1.000)	1401591	12.5000	
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	299154	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.515	12.529	(1.000)	406307	12.5000	
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	527588	9.45449	9.45449
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	397048	9.06892	9.06892
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	2566113	9.44744	9.44744
$ 106 4-Bromofluorobenzene (Surr)	95	11.482	11.482	(0.917)	710949	9.61839	9.61839
M 1 1,2-Dichloroethene (total)	96				690847	10.6309	10.6309
M 2 Xylene (total)	106				1909649	15.5921	15.5921
5 dichlorodifluoromethane	85	4.596	4.597	(0.551)	287054	5.01738	5.01738
7 Chloromethane	50	4.820	4.820	(0.578)	386073	4.31464	4.31464
8 Vinyl Chloride	62	4.974	4.974	(0.596)	418728	4.53665	4.53665
10 Bromomethane	94	5.351	5.351	(0.642)	255295	4.34593	4.34593
11 Chloroethane	64	5.434	5.435	(0.652)	265956	5.28842	5.28842
14 Trichlorofluoromethane	101	5.672	5.672	(0.680)	497634	5.07604	5.07604
20 Acetone	43	6.077	6.077	(0.729)	80135	18.7739	18.7739
23 1,1-Dichloroethene	96	6.133	6.133	(0.735)	291468	5.61381	5.61381
31 Carbon Disulfide	76	6.426	6.426	(0.771)	791028	3.21005	3.21005
33 Methylene Chloride	84	6.482	6.482	(0.777)	291681	5.52332	5.52332
35 Methyl t-butyl ether	73	6.663	6.664	(0.799)	309747	3.89130	3.89130(a)
36 trans-1,2-Dichloroethene	96	6.705	6.705	(0.804)	355444	5.55625	5.55625
42 Vinyl acetate	43	6.957	6.957	(0.834)	139513	3.47699	3.47699

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
44	1,1-Dichloroethane	63	7.027	7.027	(0.843)	584344	5.52554	5.52554
50	2-Butanone	43	7.390	7.390	(0.886)	138343	22.8025	22.8025
52	cis-1,2-Dichloroethene	96	7.460	7.460	(0.894)	335403	5.07468	5.07468
53	2,2-Dichloropropane	77	7.501	7.502	(0.900)	468097	5.59942	5.59942
55	Bromochloromethane	128	7.655	7.655	(0.918)	95671	4.44354	4.44354
56	Chloroform	83	7.669	7.655	(0.920)	510081	5.16604	5.16604
60	1,1,1-Trichloroethane	97	7.906	7.907	(0.948)	494913	5.10329	5.10329
62	1,1-Dichloropropene	75	8.004	8.004	(0.960)	470156	5.17941	5.17941
63	Carbon Tetrachloride	117	8.046	8.046	(0.965)	402062	5.05197	5.05197
65	1,2-Dichloroethane	62	8.144	8.144	(0.977)	213994	4.56996	4.56996
67	Benzene	78	8.172	8.172	(0.980)	1361879	5.56510	5.56510
71	Trichloroethene	130	8.605	8.605	(1.032)	351523	5.06547	5.06546
72	2-Pentanone	43	8.633	8.633	(1.035)	66946	6.73332	6.73332
74	1,2-Dichloropropane	63	8.772	8.772	(1.052)	263359	5.31064	5.31064
77	Dibromomethane	93	8.870	8.870	(1.064)	88589	4.62693	4.62693
78	Bromodichloromethane	83	8.940	8.940	(1.072)	269598	4.99254	4.99254
80	2-Chloroethyl vinyl ether	63	9.066	9.066	(0.856)	16105	2.53228	2.53228(Q)
81	cis-1,3-Dichloropropene	75	9.247	9.247	(0.873)	313791	4.80364	4.80364
82	4-Methyl-2-pentanone	43	9.289	9.289	(0.877)	243747	18.4203	18.4203
84	Toluene	91	9.527	9.527	(1.142)	1451966	5.56996	5.56996
86	trans-1,3-Dichloropropene	75	9.610	9.610	(1.152)	217931	4.96851	4.96851
87	1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	114324	4.77055	4.77055
88	2-Hexanone	43	9.890	9.890	(1.186)	161250	18.8251	18.8251
89	1,3-Dichloropropane	76	9.918	9.918	(0.937)	216348	4.59019	4.59019
90	Tetrachloroethene	164	9.973	9.974	(0.942)	278508	4.93907	4.93907
91	Dibromochloromethane	129	10.127	10.127	(0.956)	125674	4.27376	4.27376
93	1,2-Dibromoethane	107	10.253	10.267	(0.968)	97548	4.31083	4.31083
96	Chlorobenzene	112	10.616	10.616	(1.003)	815266	5.05239	5.05239
97	1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	222878	4.51804	4.51804
98	Ethylbenzene	106	10.644	10.644	(1.005)	537090	5.12665	5.12665
99	m and p-Xylene	106	10.728	10.728	(1.013)	1324888	10.6589	10.6588
101	o-Xylene	106	11.049	11.063	(1.044)	584761	4.93324	4.93324
100	Styrene	104	11.049	11.063	(1.044)	789675	4.74743	4.74743
102	Bromoform	173	11.272	11.272	(1.065)	51592	3.94331	3.94331
103	isopropyl benzene	105	11.328	11.328	(0.905)	1618514	5.72704	5.72704
107	1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.921)	107034	4.68944	4.68944
109	1,2,3-Trichloropropane	110	11.608	11.608	(0.927)	29988	4.35619	4.35619(Q)
111	Bromobenzene	156	11.677	11.677	(0.933)	273804	4.56132	4.56132
110	n-Propylbenzene	120	11.663	11.663	(0.932)	471100	5.05647	5.05647
113	2-Chlorotoluene	126	11.803	11.803	(0.943)	373379	5.13057	5.13057
112	1,3,5-Trimethylbenzene	105	11.775	11.789	(0.941)	1312585	5.30577	5.30577
114	4-Chlorotoluene	126	11.887	11.887	(0.950)	366285	5.08985	5.08985
115	tert-Butylbenzene	119	12.096	12.110	(0.967)	1327535	5.18339	5.18338
116	1,2,4-Trimethylbenzene	105	12.124	12.138	(0.969)	1297861	5.28714	5.28714
118	sec-Butylbenzene	134	12.292	12.306	(0.982)	376396	5.02111	5.02111
119	4-Isopropyltoluene	119	12.390	12.390	(0.990)	1473060	5.34998	5.34998
120	1,3-Dichlorobenzene	146	12.473	12.488	(0.997)	619860	4.99935	4.99935
122	1,4-dichlorobenzene	146	12.543	12.557	(1.002)	618391	4.99366	4.99366
124	n-Butylbenzene	91	12.781	12.795	(1.021)	1449724	5.45134	5.45134
126	1,2-Dichlorobenzene	146	12.934	12.948	(1.033)	454128	4.73568	4.73568
127	1,2-Dibromo-3-chloropropane	157	13.744	13.758	(1.098)	11426	3.70352	3.70352
129	1,2,4-Trichlorobenzene	180	14.820	14.834	(1.184)	287648	4.44683	4.44683
130	Hexachlorobutadiene	225	15.001	15.015	(1.199)	265099	5.29575	5.29575
131	Naphthalene	128	15.239	15.253	(1.218)	274649	3.60715	3.60715

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
132 1,2,3-Trichlorobenzene	180	15.602	15.616	(1.247)	203135	4.17165	4.17165

QC Flag Legend

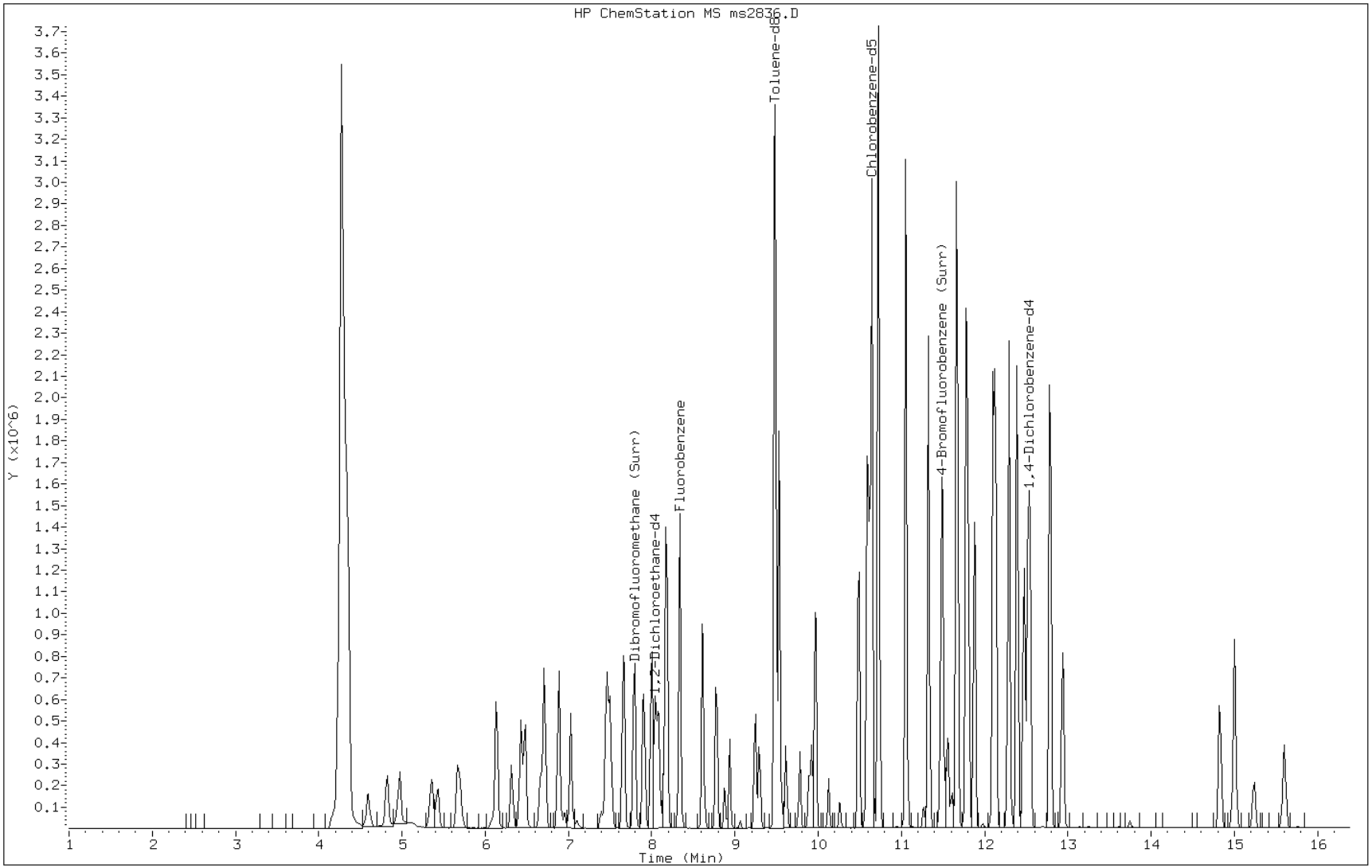
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms2836.D

Date: 28-NOV-2011 18:22

Client ID: Instrument: GCMS1.i

Sample Info: LCS,, Operator: SEIFERTJ



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-98185/4

Matrix: Water | Lab File ID: E4805.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 21:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	16.6		10	1.9
71-43-2	Benzene	4.61		1.0	0.16
108-86-1	Bromobenzene	5.28		1.0	0.17
75-27-4	Bromodichloromethane	4.39		1.0	0.17
75-25-2	Bromoform	4.45		1.0	0.19
74-83-9	Bromomethane	4.42		2.0	0.21
78-93-3	2-Butanone (MEK)	18.8		6.0	2.0
56-23-5	Carbon tetrachloride	4.80		1.0	0.19
108-90-7	Chlorobenzene	5.34		1.0	0.17
74-97-5	Bromochloromethane	4.04		1.0	0.10
124-48-1	Dibromochloromethane	4.62		1.0	0.17
75-00-3	Chloroethane	4.70		2.0	0.41
67-66-3	Chloroform	4.60		1.0	0.16
74-87-3	Chloromethane	4.68		2.0	0.30
95-49-8	2-Chlorotoluene	5.61		1.0	0.17
106-43-4	4-Chlorotoluene	5.53		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.45		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.19		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	4.61	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.73		1.0	0.18
74-95-3	Dibromomethane	4.07		1.0	0.17
95-50-1	1,2-Dichlorobenzene	5.27		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.45		1.0	0.13
106-46-7	1,4-Dichlorobenzene	5.43		1.0	0.16
75-71-8	Dichlorodifluoromethane	4.08		2.0	0.31
75-34-3	1,1-Dichloroethane	4.93		1.0	0.22
107-06-2	1,2-Dichloroethane	4.29		1.0	0.13
75-35-4	1,1-Dichloroethene	5.12		1.0	0.23
78-87-5	1,2-Dichloropropane	4.42		1.0	0.18
142-28-9	1,3-Dichloropropane	5.05		1.0	0.22
594-20-7	2,2-Dichloropropane	4.92		1.0	0.18
563-58-6	1,1-Dichloropropene	4.66		1.0	0.19
100-41-4	Ethylbenzene	5.37		1.0	0.16
87-68-3	Hexachlorobutadiene	5.40		1.0	0.12
591-78-6	2-Hexanone	18.3		5.0	1.7
98-82-8	Isopropylbenzene	6.40		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-98185/4

Matrix: Water | Lab File ID: E4805.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 21:35

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-87-6	4-Isopropyltoluene	5.62		1.0	0.20
75-09-2	Methylene Chloride	4.98		2.0	0.32
108-10-1	4-Methyl-2-pentanone	15.3		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.10	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	10.8		2.0	0.34
91-20-3	Naphthalene	4.69		1.0	0.22
104-51-8	n-Butylbenzene	5.73		1.0	0.14
103-65-1	n-Propylbenzene	5.59		1.0	0.16
95-47-6	o-Xylene	5.17		1.0	0.19
135-98-8	sec-Butylbenzene	5.65		1.0	0.17
100-42-5	Styrene	5.06		1.0	0.17
98-06-6	tert-Butylbenzene	5.70		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	5.07		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	5.33		1.0	0.21
127-18-4	Tetrachloroethene	5.34		1.0	0.20
108-88-3	Toluene	4.46		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.66		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.01		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.65		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.83		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.64		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.16		1.0	0.27
79-01-6	Trichloroethene	4.74		1.0	0.16
75-69-4	Trichlorofluoromethane	4.60		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.59		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.56		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.72		1.0	0.16
75-01-4	Vinyl chloride	4.75		1.0	0.10
1330-20-7	Xylenes, Total	16.0		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-98185/4

Matrix: Water Lab File ID: E4805.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 21:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		78-120
1868-53-7	Dibromofluoromethane (Surr)	88		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		70-127
2037-26-5	Toluene-d8 (Surr)	106		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4805.D
Lab Smp Id: LCS
Inj Date : 29-NOV-2011 21:35
Operator : TINKHAMS Inst ID: E.i
Smp Info : LCS,, 1135275/1119226/1132172
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcs-full.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1850658	12.5000		
* 87 Chlorobenzene-d5	119	10.469	10.469	(1.000)	346915	12.5000		
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	432089	12.5000		(Q)
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	351338	11.4435	11.4435	
$ 57 1,2-Dichloroethane-d4	65	7.909	7.916	(0.968)	281107	11.2523	11.2523	
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	1790029	13.7734	13.7734	
$ 98 4-Bromofluorobenzene (Surr)	95	11.377	11.384	(0.916)	512518	13.7507	13.7507	
M 2 Xylene (total)	106				1022815	15.9730	15.9730	
6 dichlorodifluoromethane	85	4.313	4.327	(0.528)	158650	4.08453	4.08453	
8 Chloromethane	50	4.551	4.565	(0.557)	158946	4.67911	4.67911	
9 Vinyl Chloride	62	4.718	4.718	(0.578)	166268	4.75177	4.75177	
12 Bromomethane	94	5.095	5.109	(0.624)	118514	4.41991	4.41991	
13 Chloroethane	64	5.179	5.179	(0.634)	140437	4.70278	4.70278	
15 Trichlorofluoromethane	101	5.458	5.458	(0.668)	269401	4.60377	4.60377	
22 Acetone	43	5.863	5.863	(0.718)	64097	16.5826	16.5826	
24 1,1-Dichloroethene	96	5.905	5.919	(0.723)	217178	5.11881	5.11881	
29 Carbon Disulfide	76	6.207	6.200	(0.760)	567450	3.35167	3.35167	
31 Methylene Chloride	84	6.271	6.272	(0.768)	182751	4.98106	4.98106	
33 Methyl t-butyl ether	73	6.443	6.450	(0.789)	241937	4.10140	4.10140(a)	
34 trans-1,2-Dichloroethene	96	6.493	6.501	(0.795)	203277	4.66332	4.66332	
36 Vinyl acetate	43	6.751	6.758	(0.827)	120007	3.77210	3.77210	
38 1,1-Dichloroethane	63	6.829	6.830	(0.836)	350728	4.92964	4.92964	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
42	2-Butanone	43	7.208	7.209	(0.883)	99477	18.7717	18.7717
45	cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	192210	4.45015	4.45015
46	2,2-Dichloropropane	77	7.294	7.302	(0.893)	285991	4.92280	4.92280(a)
48	Bromochloromethane	128	7.473	7.473	(0.915)	54246	4.04043	4.04043
49	Chloroform	83	7.480	7.480	(0.916)	285725	4.59776	4.59776
53	1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	281722	4.64445	4.64445
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	296635	4.65578	4.65578
56	Carbon Tetrachloride	117	7.845	7.852	(0.961)	247781	4.79516	4.79516
58	1,2-Dichloroethane	62	7.973	7.974	(0.976)	137419	4.28977	4.28977
60	Benzene	78	7.995	7.995	(0.979)	774819	4.60582	4.60582
63	Trichloroethene	95	8.445	8.446	(1.034)	203274	4.74286	4.74286
64	2-Pentanone	43	8.481	8.481	(1.039)	62546	7.45776	7.45776
66	1,2-Dichloropropane	63	8.631	8.631	(1.057)	158406	4.41601	4.41601
69	Dibromomethane	93	8.731	8.732	(1.069)	48596	4.06574	4.06574
70	Bromodichloromethane	83	8.795	8.796	(1.077)	160806	4.38967	4.38967
71	2-Chloroethyl vinyl ether	63	8.931	8.931	(1.094)	38012	3.96019	3.96018
73	cis-1,3-Dichloropropene	75	9.117	9.118	(1.116)	199157	4.19348	4.19348
74	4-Methyl-2-pentanone	43	9.160	9.161	(1.122)	185156	15.2724	15.2724
76	Toluene	91	9.396	9.397	(1.151)	819785	4.45947	4.45947
78	trans-1,3-Dichloropropene	75	9.489	9.489	(1.162)	139990	4.00582	4.00582
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	73004	4.15954	4.15954
80	2-Hexanone	43	9.768	9.768	(0.933)	123154	18.3290	18.3290
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	138764	5.04886	5.04886
82	Tetrachloroethene	164	9.825	9.826	(0.939)	150072	5.33836	5.33836
83	Dibromochloromethane	129	10.004	10.004	(0.956)	77749	4.62238	4.62238
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	61510	4.73020	4.73020
88	Chlorobenzene	112	10.490	10.490	(1.002)	443065	5.33712	5.33712
89	1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	122913	5.06629	5.06629
90	Ethylbenzene	106	10.526	10.526	(1.005)	288206	5.36594	5.36594
91	m and p-Xylene	106	10.604	10.605	(1.013)	707142	10.7983	10.7983
92	o-Xylene	106	10.941	10.941	(1.045)	315673	5.17463	5.17463
93	Styrene	104	10.941	10.941	(1.045)	458254	5.05548	5.05548
94	Bromoform	173	11.162	11.163	(1.066)	30306	4.44970	4.44970
95	isopropyl benzene	105	11.212	11.213	(0.903)	922675	6.39657	6.39657(R)
99	1,1,2,2-Tetrachloroethane	83	11.427	11.434	(0.920)	67361	5.33255	5.33255
101	1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	19182	5.59394	5.59394
103	Bromobenzene	156	11.570	11.570	(0.931)	136740	5.27850	5.27850
102	n-Propylbenzene	120	11.555	11.556	(0.930)	247586	5.58758	5.58758
105	2-Chlorotoluene	126	11.691	11.692	(0.941)	185987	5.60615	5.60614
104	1,3,5-Trimethylbenzene	105	11.670	11.670	(0.940)	714501	5.72155	5.72155
106	4-Chlorotoluene	126	11.770	11.778	(0.948)	181982	5.52627	5.52627
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	733200	5.69987	5.69987
108	1,2,4-Trimethylbenzene	105	12.020	12.021	(0.968)	681189	5.55694	5.55694
109	sec-Butylbenzene	134	12.185	12.185	(0.981)	199765	5.64635	5.64634
110	4-Isopropyltoluene	119	12.278	12.285	(0.988)	793349	5.62088	5.62088
111	1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	305129	5.45043	5.45043
113	1,4-dichlorobenzene	146	12.442	12.450	(1.002)	292642	5.42589	5.42589
115	n-Butylbenzene	91	12.678	12.686	(1.021)	805754	5.72683	5.72682
116	1,2-Dichlorobenzene	146	12.842	12.843	(1.034)	236759	5.26591	5.26591
117	1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	8344	4.60926	4.60926
118	1,2,4-Trichlorobenzene	180	14.716	14.723	(1.185)	146803	4.83333	4.83333
119	Hexachlorobutadiene	225	14.880	14.888	(1.198)	115826	5.39700	5.39700
120	Naphthalene	128	15.130	15.138	(1.218)	196918	4.69167	4.69167
121	1,2,3-Trichlorobenzene	180	15.488	15.496	(1.247)	109796	4.65289	4.65288

QC Flag Legend

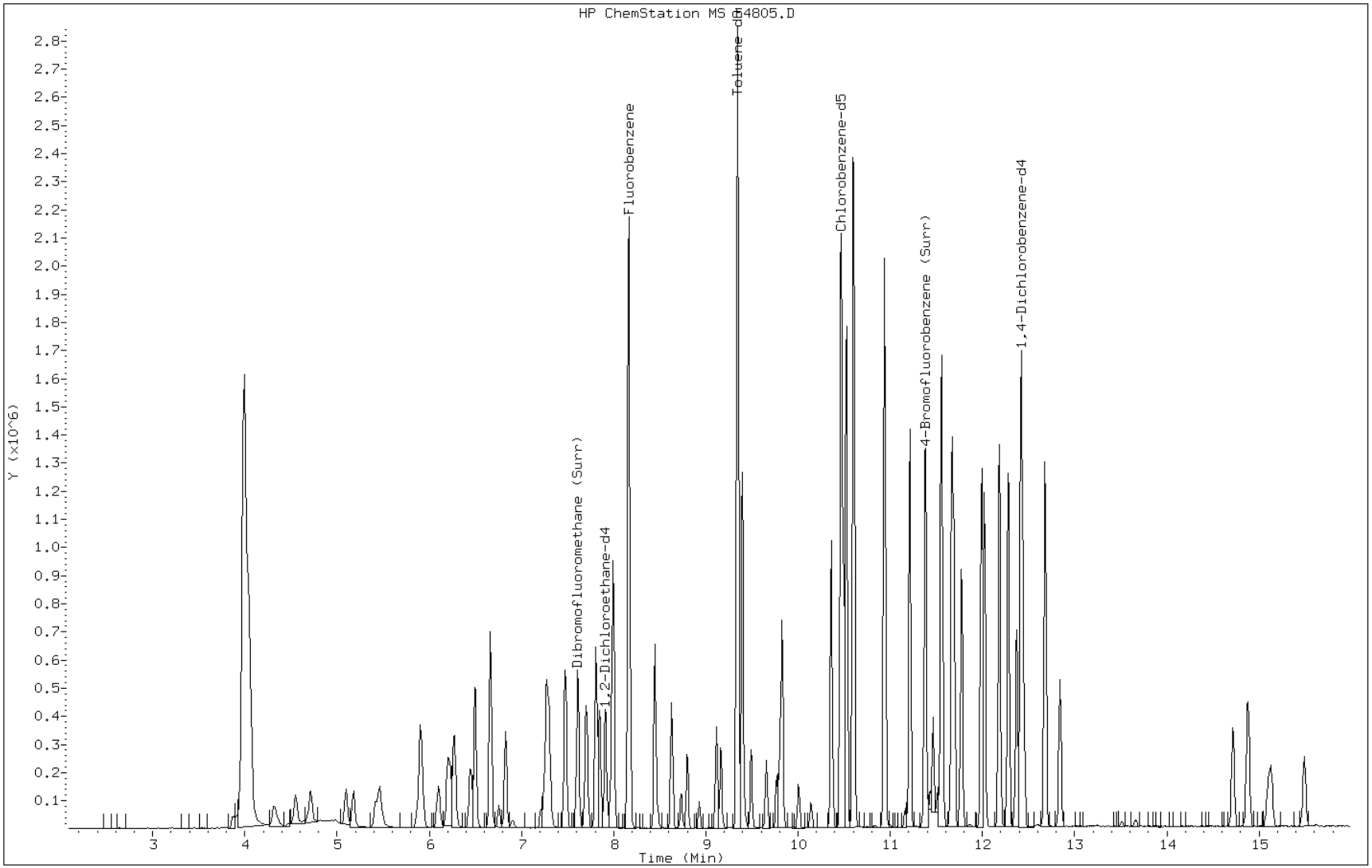
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: E4805.D

Date: 29-NOV-2011 21:35

Client ID: Instrument: E.i

Sample Info: LCS,, 1135275/1119226/1132172 Operator: TINKHAMS



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-98252/4

Matrix: Water | Lab File ID: E4868.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 19:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	18.4		10	1.9
71-43-2	Benzene	4.44		1.0	0.16
108-86-1	Bromobenzene	5.24		1.0	0.17
75-27-4	Bromodichloromethane	4.22		1.0	0.17
75-25-2	Bromoform	4.03		1.0	0.19
74-83-9	Bromomethane	4.61		2.0	0.21
78-93-3	2-Butanone (MEK)	19.2		6.0	2.0
56-23-5	Carbon tetrachloride	4.36		1.0	0.19
108-90-7	Chlorobenzene	5.24		1.0	0.17
74-97-5	Bromochloromethane	4.46		1.0	0.10
124-48-1	Dibromochloromethane	4.53		1.0	0.17
75-00-3	Chloroethane	4.70		2.0	0.41
67-66-3	Chloroform	4.53		1.0	0.16
74-87-3	Chloromethane	4.56		2.0	0.30
95-49-8	2-Chlorotoluene	5.25		1.0	0.17
106-43-4	4-Chlorotoluene	5.31		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.27		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.19		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.64	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.75		1.0	0.18
74-95-3	Dibromomethane	4.23		1.0	0.17
95-50-1	1,2-Dichlorobenzene	5.28		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.37		1.0	0.13
106-46-7	1,4-Dichlorobenzene	5.42		1.0	0.16
75-71-8	Dichlorodifluoromethane	4.07		2.0	0.31
75-34-3	1,1-Dichloroethane	4.47		1.0	0.22
107-06-2	1,2-Dichloroethane	4.32		1.0	0.13
75-35-4	1,1-Dichloroethene	4.83		1.0	0.23
78-87-5	1,2-Dichloropropane	4.24		1.0	0.18
142-28-9	1,3-Dichloropropane	5.11		1.0	0.22
594-20-7	2,2-Dichloropropane	4.39		1.0	0.18
563-58-6	1,1-Dichloropropene	4.24		1.0	0.19
100-41-4	Ethylbenzene	4.87		1.0	0.16
87-68-3	Hexachlorobutadiene	5.15		1.0	0.12
591-78-6	2-Hexanone	18.3		5.0	1.7
98-82-8	Isopropylbenzene	5.69		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-98252/4

Matrix: Water | Lab File ID: E4868.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 19:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-87-6	4-Isopropyltoluene	5.11		1.0	0.20
75-09-2	Methylene Chloride	5.16		2.0	0.32
108-10-1	4-Methyl-2-pentanone	15.1		5.0	0.98
1634-04-4	Methyl tert-butyl ether	3.94	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	9.93		2.0	0.34
91-20-3	Naphthalene	4.57		1.0	0.22
104-51-8	n-Butylbenzene	5.16		1.0	0.14
103-65-1	n-Propylbenzene	5.09		1.0	0.16
95-47-6	o-Xylene	4.94		1.0	0.19
135-98-8	sec-Butylbenzene	5.08		1.0	0.17
100-42-5	Styrene	4.80		1.0	0.17
98-06-6	tert-Butylbenzene	5.17		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.96		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	5.22		1.0	0.21
127-18-4	Tetrachloroethene	5.09		1.0	0.20
108-88-3	Toluene	4.29		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.53		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	3.86		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.86		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.89		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.34		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.22		1.0	0.27
79-01-6	Trichloroethene	4.48		1.0	0.16
75-69-4	Trichlorofluoromethane	4.61		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.46		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.15		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.11		1.0	0.16
75-01-4	Vinyl chloride	4.46		1.0	0.10
1330-20-7	Xylenes, Total	14.9		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-98252/4

Matrix: Water Lab File ID: E4868.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 19:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98252 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		78-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-127
2037-26-5	Toluene-d8 (Surr)	115		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4868.D
Lab Smp Id: LCS
Inj Date : 30-NOV-2011 19:38
Operator : TINKHAMS Inst ID: E.i
Smp Info : LCS,, 1135275/1119226/1132172
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\8260B-H2O.m
Meth Date : 30-Nov-2011 19:48 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcs-full.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 61 Fluorobenzene	96	8.166	8.166	(1.000)	1756168	12.5000	
* 87 Chlorobenzene-d5	119	10.469	10.468	(1.000)	338045	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.421	12.420	(1.000)	436901	12.5000	(Q)
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	376109	12.9095	12.9094
$ 57 1,2-Dichloroethane-d4	65	7.909	7.908	(0.968)	290608	12.2585	12.2585
$ 75 Toluene-d8	98	9.346	9.346	(0.893)	1888297	14.9108	14.9108
$ 98 4-Bromofluorobenzene (Surr)	95	11.384	11.383	(0.917)	527721	14.0027	14.0027
M 2 Xylene (total)	106				926920	14.8637	14.8637
6 dichlorodifluoromethane	85	4.316	4.314	(0.528)	149988	4.07059	4.07059
8 Chloromethane	50	4.553	4.551	(0.558)	147066	4.56232	4.56232
9 Vinyl Chloride	62	4.707	4.705	(0.576)	148174	4.46250	4.46250
12 Bromomethane	94	5.098	5.096	(0.624)	117176	4.60513	4.60513
13 Chloroethane	64	5.182	5.180	(0.635)	133229	4.70145	4.70145
15 Trichlorofluoromethane	101	5.461	5.459	(0.669)	256198	4.61371	4.61371
22 Acetone	43	5.866	5.864	(0.718)	66295	18.3552	18.3552
24 1,1-Dichloroethene	96	5.908	5.906	(0.723)	194448	4.82966	4.82966
29 Carbon Disulfide	76	6.200	6.199	(0.759)	544921	3.39177	3.39177
31 Methylene Chloride	84	6.272	6.271	(0.768)	179504	5.15580	5.15580
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	220674	3.94222	3.94222(a)
34 trans-1,2-Dichloroethene	96	6.501	6.500	(0.796)	187270	4.52726	4.52726
36 Vinyl acetate	43	6.758	6.757	(0.828)	114203	3.78281	3.78281
38 1,1-Dichloroethane	63	6.829	6.829	(0.836)	301490	4.46558	4.46558

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
42	2-Butanone	43	7.208	7.208	(0.883)	96525	19.1947	19.1947
45	cis-1,2-Dichloroethene	96	7.273	7.265	(0.891)	175151	4.27338	4.27338
46	2,2-Dichloropropane	77	7.301	7.294	(0.894)	241862	4.38720	4.38720(a)
48	Bromochloromethane	128	7.473	7.473	(0.915)	56871	4.46386	4.46386
49	Chloroform	83	7.480	7.480	(0.916)	267178	4.53063	4.53063
53	1,1,1-Trichloroethane	97	7.702	7.701	(0.943)	249933	4.34207	4.34207
55	1,1-Dichloropropene	75	7.809	7.809	(0.956)	256483	4.24217	4.24217
56	Carbon Tetrachloride	117	7.845	7.844	(0.961)	214018	4.36461	4.36461
58	1,2-Dichloroethane	62	7.973	7.973	(0.976)	131290	4.32039	4.32039
60	Benzene	78	7.995	7.994	(0.979)	709291	4.44315	4.44315
63	Trichloroethene	95	8.445	8.445	(1.034)	182205	4.48001	4.48001
64	2-Pentanone	43	8.474	8.480	(1.038)	58492	7.34963	7.34962
66	1,2-Dichloropropane	63	8.631	8.631	(1.057)	144333	4.24018	4.24018
69	Dibromomethane	93	8.738	8.731	(1.070)	47931	4.22587	4.22587
70	Bromodichloromethane	83	8.796	8.802	(1.077)	146704	4.22019	4.22018
71	2-Chloroethyl vinyl ether	63	8.932	8.931	(1.094)	33948	3.72708	3.72708
73	cis-1,3-Dichloropropene	75	9.117	9.117	(1.116)	188827	4.18989	4.18989
74	4-Methyl-2-pentanone	43	9.160	9.167	(1.122)	173331	15.0662	15.0662
76	Toluene	91	9.396	9.396	(1.151)	748061	4.28825	4.28825
78	trans-1,3-Dichloropropene	75	9.489	9.489	(1.162)	128011	3.86013	3.86013
79	1,1,2-Trichloroethane	97	9.661	9.660	(1.183)	70253	4.21817	4.21817
80	2-Hexanone	43	9.768	9.768	(0.933)	119797	18.2972	18.2972
81	1,3-Dichloropropane	76	9.804	9.803	(0.936)	136905	5.11192	5.11192
82	Tetrachloroethene	164	9.825	9.825	(0.939)	139377	5.08801	5.08801
83	Dibromochloromethane	129	10.004	10.004	(0.956)	74226	4.53190	4.53190
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	60131	4.74549	4.74549
88	Chlorobenzene	112	10.490	10.490	(1.002)	423962	5.24101	5.24101
89	1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	117256	4.95994	4.95994
90	Ethylbenzene	106	10.526	10.526	(1.005)	254723	4.86698	4.86698
91	m and p-Xylene	106	10.605	10.604	(1.013)	633482	9.92735	9.92735
92	o-Xylene	106	10.941	10.940	(1.045)	293438	4.93636	4.93636
93	Styrene	104	10.941	10.940	(1.045)	423777	4.79780	4.79780
94	Bromoform	173	11.162	11.162	(1.066)	26776	4.03456	4.03456
95	isopropyl benzene	105	11.212	11.212	(0.903)	829588	5.68789	5.68789
99	1,1,2,2-Tetrachloroethane	83	11.434	11.434	(0.921)	66671	5.21980	5.21980
101	1,2,3-Trichloropropane	110	11.506	11.512	(0.926)	18931	5.45994	5.45994
103	Bromobenzene	156	11.570	11.570	(0.931)	137188	5.23747	5.23747
102	n-Propylbenzene	120	11.556	11.555	(0.930)	228211	5.09360	5.09360
105	2-Chlorotoluene	126	11.691	11.691	(0.941)	176024	5.24740	5.24740
104	1,3,5-Trimethylbenzene	105	11.670	11.670	(0.940)	645532	5.11233	5.11233
106	4-Chlorotoluene	126	11.777	11.777	(0.948)	176676	5.30605	5.30605
107	tert-Butylbenzene	119	11.992	11.991	(0.965)	672391	5.16957	5.16957
108	1,2,4-Trimethylbenzene	105	12.020	12.027	(0.968)	638620	5.15230	5.15230
109	sec-Butylbenzene	134	12.185	12.184	(0.981)	181627	5.07713	5.07713
110	4-Isopropyltoluene	119	12.285	12.285	(0.989)	729477	5.11142	5.11142
111	1,3-Dichlorobenzene	146	12.371	12.370	(0.996)	304200	5.37399	5.37399
113	1,4-dichlorobenzene	146	12.442	12.449	(1.002)	295431	5.41727	5.41727
115	n-Butylbenzene	91	12.678	12.685	(1.021)	734046	5.15971	5.15970
116	1,2-Dichlorobenzene	146	12.843	12.842	(1.034)	240080	5.28096	5.28096
117	1,2-Dibromo-3-chloropropane	157	13.658	13.672	(1.100)	6661	3.63904	3.63904
118	1,2,4-Trichlorobenzene	180	14.723	14.723	(1.185)	150310	4.89429	4.89428
119	Hexachlorobutadiene	225	14.880	14.887	(1.198)	111730	5.14880	5.14880
120	Naphthalene	128	15.138	15.137	(1.219)	194153	4.57484	4.57484
121	1,2,3-Trichlorobenzene	180	15.495	15.502	(1.248)	116024	4.86266	4.86266

QC Flag Legend

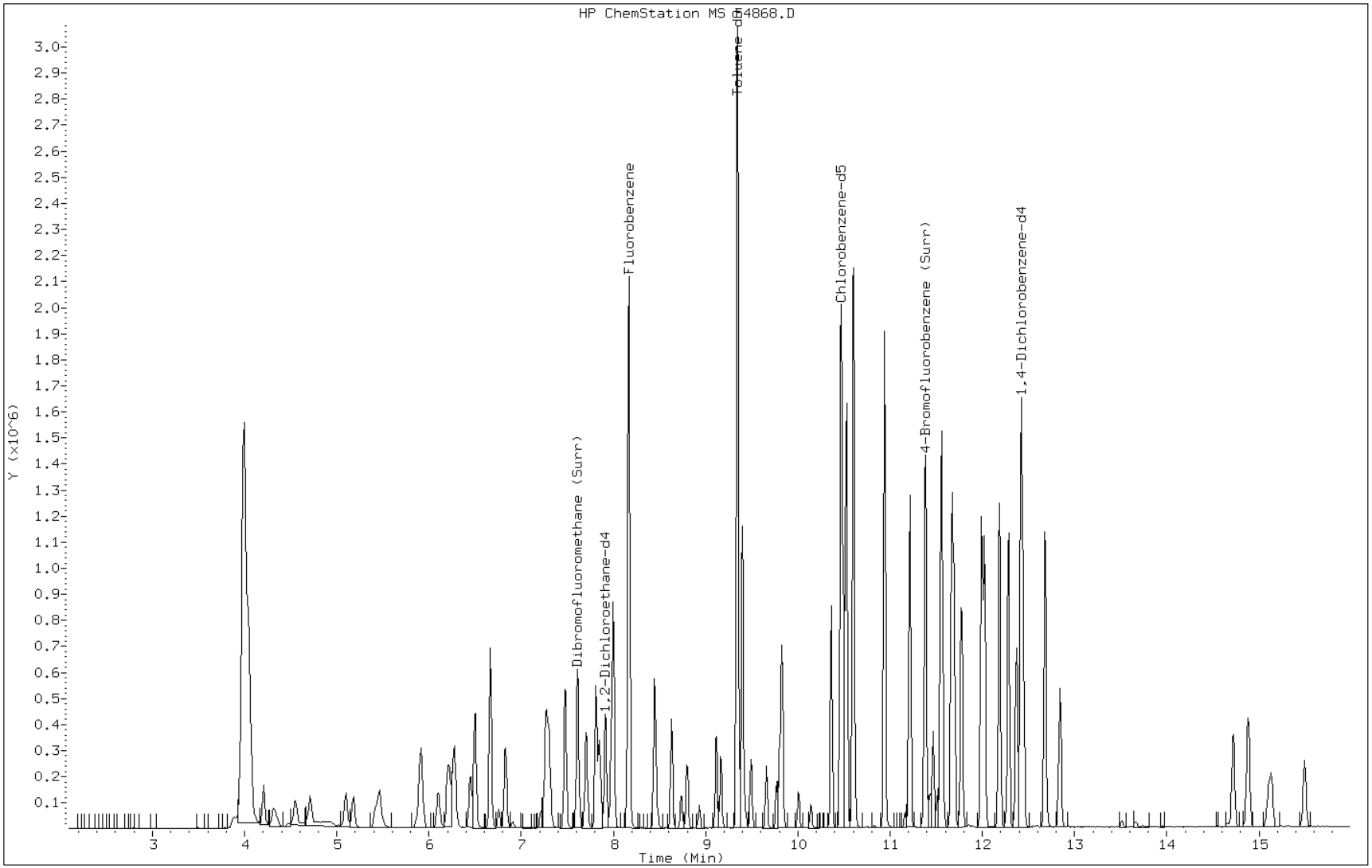
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: E4868.D

Date: 30-NOV-2011 19:38

Client ID: Instrument: E.i

Sample Info: LCS,, 1135275/1119226/1132172 Operator: TINKHAMS



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-98252/6

Matrix: Water | Lab File ID: E4870.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 20:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	15.7		10	1.9
71-43-2	Benzene	4.71		1.0	0.16
108-86-1	Bromobenzene	5.16		1.0	0.17
75-27-4	Bromodichloromethane	4.36		1.0	0.17
75-25-2	Bromoform	4.04		1.0	0.19
74-83-9	Bromomethane	4.33		2.0	0.21
78-93-3	2-Butanone (MEK)	17.3		6.0	2.0
56-23-5	Carbon tetrachloride	4.95		1.0	0.19
108-90-7	Chlorobenzene	5.52		1.0	0.17
74-97-5	Bromochloromethane	4.29		1.0	0.10
124-48-1	Dibromochloromethane	4.41		1.0	0.17
75-00-3	Chloroethane	4.58		2.0	0.41
67-66-3	Chloroform	4.77		1.0	0.16
74-87-3	Chloromethane	4.18		2.0	0.30
95-49-8	2-Chlorotoluene	5.68		1.0	0.17
106-43-4	4-Chlorotoluene	5.60		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.65		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.11		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.83	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.57		1.0	0.18
74-95-3	Dibromomethane	4.06		1.0	0.17
95-50-1	1,2-Dichlorobenzene	5.24		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.49		1.0	0.13
106-46-7	1,4-Dichlorobenzene	5.50		1.0	0.16
75-71-8	Dichlorodifluoromethane	4.07		2.0	0.31
75-34-3	1,1-Dichloroethane	4.92		1.0	0.22
107-06-2	1,2-Dichloroethane	4.23		1.0	0.13
75-35-4	1,1-Dichloroethene	5.61		1.0	0.23
78-87-5	1,2-Dichloropropane	4.29		1.0	0.18
142-28-9	1,3-Dichloropropane	4.93		1.0	0.22
594-20-7	2,2-Dichloropropane	5.03		1.0	0.18
563-58-6	1,1-Dichloropropene	4.82		1.0	0.19
100-41-4	Ethylbenzene	5.39		1.0	0.16
87-68-3	Hexachlorobutadiene	5.59		1.0	0.12
591-78-6	2-Hexanone	16.7		5.0	1.7
98-82-8	Isopropylbenzene	6.34		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-98252/6

Matrix: Water | Lab File ID: E4870.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/30/2011 20:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
99-87-6	4-Isopropyltoluene	5.63		1.0	0.20
75-09-2	Methylene Chloride	5.06		2.0	0.32
108-10-1	4-Methyl-2-pentanone	14.5		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.02	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	10.7		2.0	0.34
91-20-3	Naphthalene	4.16		1.0	0.22
104-51-8	n-Butylbenzene	5.66		1.0	0.14
103-65-1	n-Propylbenzene	5.56		1.0	0.16
95-47-6	o-Xylene	5.20		1.0	0.19
135-98-8	sec-Butylbenzene	5.68		1.0	0.17
100-42-5	Styrene	5.02		1.0	0.17
98-06-6	tert-Butylbenzene	5.60		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	5.05		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	5.09		1.0	0.21
127-18-4	Tetrachloroethene	5.60		1.0	0.20
108-88-3	Toluene	4.61		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.93		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	3.91		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.66		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.86		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.89		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.03		1.0	0.27
79-01-6	Trichloroethene	4.82		1.0	0.16
75-69-4	Trichlorofluoromethane	4.64		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.49		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.54		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.66		1.0	0.16
75-01-4	Vinyl chloride	4.45		1.0	0.10
1330-20-7	Xylenes, Total	15.9		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-98252/6

Matrix: Water Lab File ID: E4870.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/30/2011 20:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98252 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		78-120
1868-53-7	Dibromofluoromethane (Surr)	89		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		70-127
2037-26-5	Toluene-d8 (Surr)	104		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4870.D
Lab Smp Id: LCSD
Inj Date : 30-NOV-2011 20:16
Operator : TINKHAMS Inst ID: E.i
Smp Info : LCSD,,
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\8260B-H2O.m
Meth Date : 30-Nov-2011 19:48 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: lcs-full.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
* 61 Fluorobenzene	96	8.167	8.166	(1.000)	1973041	12.5000		
* 87 Chlorobenzene-d5	119	10.470	10.468	(1.000)	384930	12.5000		
* 112 1,4-Dichlorobenzene-d4	152	12.422	12.420	(1.000)	492791	12.5000		(Q)
$ 51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	379823	11.6039	11.6039	
$ 57 1,2-Dichloroethane-d4	65	7.910	7.908	(0.968)	294322	11.0505	11.0505	
$ 75 Toluene-d8	98	9.347	9.346	(0.893)	1940689	13.4579	13.4579	
$ 98 4-Bromofluorobenzene (Surr)	95	11.385	11.383	(0.917)	545574	12.8346	12.8346	
M 2 Xylene (total)	106				1132690	15.9447	15.9447	
6 dichlorodifluoromethane	85	4.313	4.314	(0.528)	168407	4.06831	4.06831	
8 Chloromethane	50	4.551	4.551	(0.557)	151378	4.17990	4.17990	
9 Vinyl Chloride	62	4.718	4.705	(0.578)	166070	4.45172	4.45172	
12 Bromomethane	94	5.095	5.096	(0.624)	123750	4.32891	4.32891	
13 Chloroethane	64	5.179	5.180	(0.634)	145807	4.57975	4.57975	
15 Trichlorofluoromethane	101	5.459	5.459	(0.668)	289535	4.64094	4.64094	
22 Acetone	43	5.864	5.864	(0.718)	65276	15.7002	15.7002	
24 1,1-Dichloroethene	96	5.906	5.906	(0.723)	253827	5.61153	5.61153	
29 Carbon Disulfide	76	6.208	6.199	(0.760)	545004	3.01942	3.01942	
31 Methylene Chloride	84	6.272	6.271	(0.768)	197941	5.06044	5.06044	
33 Methyl t-butyl ether	73	6.451	6.450	(0.790)	253088	4.02431	4.02431	(a)
34 trans-1,2-Dichloroethene	96	6.501	6.500	(0.796)	228994	4.92744	4.92744	
36 Vinyl acetate	43	6.759	6.757	(0.828)	117419	3.46183	3.46183	
38 1,1-Dichloroethane	63	6.830	6.829	(0.836)	373015	4.91769	4.91769	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
42	2-Butanone	43	7.209	7.208	(0.883)	97916	17.3310	17.3310
45	cis-1,2-Dichloroethene	96	7.273	7.265	(0.891)	214027	4.64790	4.64790
46	2,2-Dichloropropane	77	7.302	7.294	(0.894)	311807	5.03426	5.03426
48	Bromochloromethane	128	7.474	7.473	(0.915)	61452	4.29324	4.29324
49	Chloroform	83	7.481	7.480	(0.916)	315706	4.76508	4.76508
53	1,1,1-Trichloroethane	97	7.702	7.701	(0.943)	316389	4.89243	4.89243
55	1,1-Dichloropropene	75	7.810	7.809	(0.956)	327261	4.81786	4.81786
56	Carbon Tetrachloride	117	7.845	7.844	(0.961)	272829	4.95240	4.95240
58	1,2-Dichloroethane	62	7.974	7.973	(0.976)	144599	4.23118	4.23118
60	Benzene	78	7.996	7.994	(0.979)	844918	4.71098	4.71098
63	Trichloroethene	95	8.446	8.445	(1.034)	220218	4.81950	4.81950
64	2-Pentanone	43	8.482	8.480	(1.039)	59030	6.60194	6.60194
66	1,2-Dichloropropane	63	8.632	8.631	(1.057)	164162	4.29260	4.29260
69	Dibromomethane	93	8.732	8.731	(1.069)	51682	4.05573	4.05573
70	Bromodichloromethane	83	8.796	8.802	(1.077)	170236	4.35884	4.35884
71	2-Chloroethyl vinyl ether	63	8.925	8.931	(1.093)	34177	3.33979	3.33979
73	cis-1,3-Dichloropropene	75	9.118	9.117	(1.116)	208120	4.11039	4.11039
74	4-Methyl-2-pentanone	43	9.161	9.167	(1.122)	187757	14.5263	14.5263
76	Toluene	91	9.397	9.396	(1.151)	903807	4.61157	4.61157
78	trans-1,3-Dichloropropene	75	9.490	9.489	(1.162)	145843	3.91444	3.91444
79	1,1,2-Trichloroethane	97	9.662	9.660	(1.183)	75370	4.02798	4.02798
80	2-Hexanone	43	9.769	9.768	(0.933)	124416	16.6882	16.6882
81	1,3-Dichloropropane	76	9.805	9.803	(0.936)	150214	4.92570	4.92570
82	Tetrachloroethene	164	9.826	9.825	(0.939)	174741	5.60202	5.60202
83	Dibromochloromethane	129	10.005	10.004	(0.956)	82074	4.40525	4.40525
85	1,2-Dibromoethane	107	10.141	10.140	(0.969)	65905	4.56766	4.56766
88	Chlorobenzene	112	10.491	10.490	(1.002)	508016	5.51516	5.51516
89	1,1,1,2-Tetrachloroethane	131	10.527	10.526	(1.005)	136039	5.05356	5.05356
90	Ethylbenzene	106	10.527	10.526	(1.005)	321374	5.39256	5.39256
91	m and p-Xylene	106	10.605	10.604	(1.013)	780394	10.7400	10.7400
92	o-Xylene	106	10.941	10.940	(1.045)	352296	5.20464	5.20464
93	Styrene	104	10.941	10.940	(1.045)	504707	5.01808	5.01808
94	Bromoform	173	11.170	11.162	(1.067)	30547	4.04214	4.04214
95	isopropyl benzene	105	11.213	11.212	(0.903)	1042492	6.33697	6.33697(R)
99	1,1,2,2-Tetrachloroethane	83	11.428	11.434	(0.920)	73380	5.09348	5.09348
101	1,2,3-Trichloropropane	110	11.513	11.512	(0.927)	21468	5.48941	5.48941
103	Bromobenzene	156	11.563	11.570	(0.931)	152499	5.16170	5.16170
102	n-Propylbenzene	120	11.556	11.555	(0.930)	281001	5.56053	5.56053
105	2-Chlorotoluene	126	11.692	11.691	(0.941)	214992	5.68217	5.68217
104	1,3,5-Trimethylbenzene	105	11.671	11.670	(0.940)	806456	5.66242	5.66242
106	4-Chlorotoluene	126	11.771	11.777	(0.948)	210285	5.59915	5.59915
107	tert-Butylbenzene	119	11.992	11.991	(0.965)	820964	5.59599	5.59599
108	1,2,4-Trimethylbenzene	105	12.021	12.027	(0.968)	774061	5.53674	5.53674
109	sec-Butylbenzene	134	12.186	12.184	(0.981)	229381	5.68481	5.68481
110	4-Isopropyltoluene	119	12.286	12.285	(0.989)	906519	5.63154	5.63154
111	1,3-Dichlorobenzene	146	12.371	12.370	(0.996)	350230	5.48544	5.48544
113	1,4-dichlorobenzene	146	12.443	12.449	(1.002)	338420	5.50175	5.50175
115	n-Butylbenzene	91	12.679	12.685	(1.021)	908432	5.66128	5.66128
116	1,2-Dichlorobenzene	146	12.843	12.842	(1.034)	268906	5.24418	5.24418
117	1,2-Dibromo-3-chloropropane	157	13.666	13.672	(1.100)	7912	3.83225	3.83225
118	1,2,4-Trichlorobenzene	180	14.717	14.723	(1.185)	168201	4.85568	4.85568
119	Hexachlorobutadiene	225	14.881	14.887	(1.198)	136892	5.59287	5.59287
120	Naphthalene	128	15.139	15.137	(1.219)	199015	4.15756	4.15756
121	1,2,3-Trichlorobenzene	180	15.496	15.502	(1.248)	125499	4.66323	4.66323

QC Flag Legend

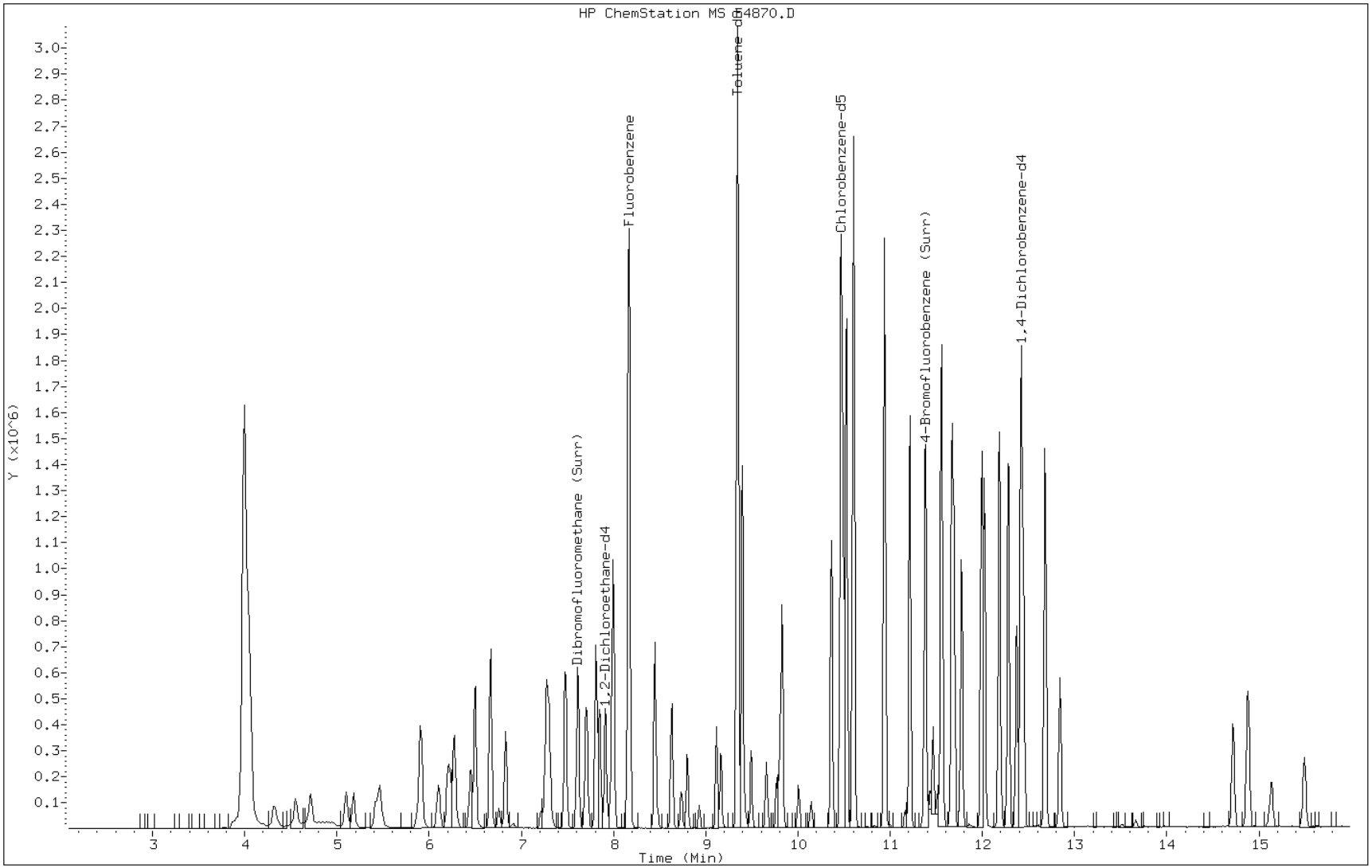
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: E4870.D

Date: 30-NOV-2011 20:16

Client ID: Instrument: E.i

Sample Info: LCSD,, Operator: TINKHAMS



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-22946-B-1 MS

Matrix: Water | Lab File ID: ms2844.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 21:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	17.9		10	1.9
71-43-2	Benzene	5.39		1.0	0.16
108-86-1	Bromobenzene	4.31		1.0	0.17
75-27-4	Bromodichloromethane	4.76		1.0	0.17
75-25-2	Bromoform	3.80		1.0	0.19
74-83-9	Bromomethane	4.45		2.0	0.21
78-93-3	2-Butanone (MEK)	22.2		6.0	2.0
56-23-5	Carbon tetrachloride	5.21		1.0	0.19
108-90-7	Chlorobenzene	4.90		1.0	0.17
74-97-5	Bromochloromethane	4.14		1.0	0.10
124-48-1	Dibromochloromethane	4.12		1.0	0.17
75-00-3	Chloroethane	5.14		2.0	0.41
67-66-3	Chloroform	4.99		1.0	0.16
74-87-3	Chloromethane	4.59		2.0	0.30
95-49-8	2-Chlorotoluene	4.81		1.0	0.17
106-43-4	4-Chlorotoluene	4.80		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.83		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.51		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.50	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.15		1.0	0.18
74-95-3	Dibromomethane	4.36		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.44		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.63		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.97		1.0	0.16
75-71-8	Dichlorodifluoromethane	5.21		2.0	0.31
75-34-3	1,1-Dichloroethane	5.30		1.0	0.22
107-06-2	1,2-Dichloroethane	4.36		1.0	0.13
75-35-4	1,1-Dichloroethene	5.65		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	10.3		1.0	0.24
78-87-5	1,2-Dichloropropane	5.00		1.0	0.18
142-28-9	1,3-Dichloropropane	4.45		1.0	0.22
594-20-7	2,2-Dichloropropane	5.54		1.0	0.18
563-58-6	1,1-Dichloropropene	5.20		1.0	0.19
100-41-4	Ethylbenzene	5.03		1.0	0.16
87-68-3	Hexachlorobutadiene	5.10		1.0	0.12
591-78-6	2-Hexanone	17.7		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-22946-B-1 MS

Matrix: Water | Lab File ID: ms2844.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 21:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.73		1.0	0.19
99-87-6	4-Isopropyltoluene	5.30		1.0	0.20
75-09-2	Methylene Chloride	4.99		2.0	0.32
108-10-1	4-Methyl-2-pentanone	19.2		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.22	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	10.7		2.0	0.34
91-20-3	Naphthalene	3.29		1.0	0.22
104-51-8	n-Butylbenzene	5.40		1.0	0.14
103-65-1	n-Propylbenzene	4.98		1.0	0.16
95-47-6	o-Xylene	4.64		1.0	0.19
135-98-8	sec-Butylbenzene	5.00		1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	5.09		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.39		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.65		1.0	0.21
127-18-4	Tetrachloroethene	4.98		1.0	0.20
108-88-3	Toluene	5.45		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	5.46		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.80		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	3.78		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.00		1.0	0.21
71-55-6	1,1,1-Trichloroethane	5.10		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.42		1.0	0.27
79-01-6	Trichloroethene	4.92		1.0	0.16
75-69-4	Trichlorofluoromethane	5.17		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.21		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.06		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.20		1.0	0.16
75-01-4	Vinyl chloride	4.79		1.0	0.10
1330-20-7	Xylenes, Total	15.3		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-22946-B-1 MS

Matrix: Water Lab File ID: ms2844.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/28/2011 21:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 97860 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		78-120
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		70-127
2037-26-5	Toluene-d8 (Surr)	96		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\ms2844.D
Lab Smp Id: 280-22946-b-1 MS
Inj Date : 28-NOV-2011 21:13
Operator : SEIFERTJ   Inst ID: GCMS1.i
Smp Info : 280-22946-b-1 MS,,PH<2
Misc Info : ms2843.D
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\8260B-H2O.m
Meth Date : 28-Nov-2011 23:49 seifertj   Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41   Cal File: ms1801.D
Als bottle: 2   QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 69 Fluorobenzene	96	8.340	8.339	(1.000)	1454960	12.5000	
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	304337	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	418489	12.5000	
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	527994	9.11470	9.11470
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	391757	8.61985	8.61984
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	2641896	9.56080	9.56080
$ 106 4-Bromofluorobenzene (Surr)	95	11.482	11.482	(0.916)	717208	9.42061	9.42061
M 1 1,2-Dichloroethene (total)	96				694062	10.2912	10.2912
M 2 Xylene (total)	106				1907884	15.3030	15.3030
5 dichlorodifluoromethane	85	4.583	4.597	(0.550)	309706	5.21475	5.21475
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
7 Chloromethane	50	4.834	4.820	(0.580)	426578	4.59245	4.59244
8 Vinyl Chloride	62	4.974	4.974	(0.596)	458982	4.79037	4.79037
9 Ethylene Oxide	43	Compound Not Detected.					
10 Bromomethane	94	5.365	5.351	(0.643)	271086	4.44548	4.44548
11 Chloroethane	64	5.435	5.435	(0.652)	268101	5.13553	5.13553
12 Dichlorofluoromethane	67	Compound Not Detected.					
14 Trichlorofluoromethane	101	5.672	5.672	(0.680)	525864	5.16724	5.16724
13 Ethanol	45	Compound Not Detected.					
15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18 Propylene Oxide	58	6.077	5.951	(0.729)	27111	7.52473	7.52473(Q)
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	6.077	6.077	(0.729)	79281	17.8925	17.8925
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	Compound Not Detected.					
23 1,1-Dichloroethene	96	6.133	6.133	(0.735)	304595	5.65145	5.65145
27 Iodomethane	142	6.314	6.314	(0.757)	421722	4.98570	4.98570
26 Acetonitrile	41	6.440	6.300	(0.772)	33562	20.6455	20.6455
28 Methyl Acetate	43	Compound Not Detected.					
31 Carbon Disulfide	76	6.426	6.426	(0.771)	741182	2.89745	2.89744
29 Allyl Chloride	41	6.440	6.384	(0.772)	33562	0.39417	0.394169(aQ)
30 tert-Butyl alcohol	59	6.426	6.426	(0.771)	85576	62.8115	62.8114
33 Methylene Chloride	84	6.482	6.482	(0.777)	273598	4.99086	4.99086
34 Acrylonitrile	53	Compound Not Detected.					
35 Methyl t-butyl ether	73	6.664	6.664	(0.799)	348319	4.21536	4.21536
36 trans-1,2-Dichloroethene	96	6.706	6.705	(0.804)	362400	5.45719	5.45719
40 Hexane	57	6.887	6.887	(0.650)	375895	3.33991	3.33991
42 Vinyl acetate	43	6.887	6.957	(0.826)	225683	5.41823	5.41823
43 Isopropyl ether	87	Compound Not Detected.					
44 1,1-Dichloroethane	63	7.027	7.027	(0.843)	581665	5.29846	5.29846
46 Chloroprene	53	Compound Not Detected.					
48 ETBE	59	Compound Not Detected.					
50 2-Butanone	43	7.390	7.390	(0.886)	139732	22.1866	22.1866
49 Ethyl Acetate	43	7.390	7.376	(0.886)	139732	7.40231	7.40231(Q)
52 cis-1,2-Dichloroethene	96	7.460	7.460	(0.894)	331662	4.83401	4.83401
51 Propionitrile	54	Compound Not Detected.					
53 2,2-Dichloropropane	77	7.502	7.502	(0.900)	480494	5.53688	5.53688
54 Methacrylonitrile	41	Compound Not Detected.					
55 Bromochloromethane	128	7.655	7.655	(0.918)	92537	4.14033	4.14033
56 Chloroform	83	7.669	7.655	(0.920)	511004	4.98555	4.98555
57 Tetrahydrofuran	42	Compound Not Detected.					
60 1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	513689	5.10261	5.10261
59 Isobutanol	41	Compound Not Detected.					
61 Cyclohexane	56	Compound Not Detected.					
62 1,1-Dichloropropene	75	8.004	8.004	(0.960)	490062	5.20068	5.20068
63 Carbon Tetrachloride	117	8.046	8.046	(0.965)	430775	5.21421	5.21421
65 1,2-Dichloroethane	62	8.144	8.144	(0.977)	211881	4.35886	4.35886
67 Benzene	78	8.172	8.172	(0.980)	1368747	5.38800	5.38800
66 TAME	73	Compound Not Detected.					
68 n-Butanol	56	8.340	8.340	(1.000)	8689	16.7703	16.7702
71 Trichloroethene	130	8.605	8.605	(1.032)	354722	4.92407	4.92407
72 2-Pentanone	43	8.633	8.633	(1.035)	63209	6.12426	6.12426
73 Methyl Methacrylate	100	Compound Not Detected.					
74 1,2-Dichloropropane	63	8.773	8.772	(1.052)	257412	5.00032	5.00032
75 Methyl Cyclohexane	55	Compound Not Detected.					
76 1,4-Dioxane	88	Compound Not Detected.					
77 Dibromomethane	93	8.870	8.870	(1.064)	86701	4.36222	4.36222
78 Bromodichloromethane	83	8.940	8.940	(1.072)	266670	4.75718	4.75718
79 2-nitropropane	41	Compound Not Detected.					
80 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
81 cis-1,3-Dichloropropene	75	9.247	9.247	(0.873)	299717	4.51005	4.51005
82 4-Methyl-2-pentanone	43	9.289	9.289	(0.877)	259113	19.2480	19.2480
84 Toluene	91	9.527	9.527	(1.142)	1475813	5.45377	5.45377
86 trans-1,3-Dichloropropene	75	9.611	9.610	(1.152)	218366	4.79582	4.79582
85 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
87	1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	109973	4.42067	4.42067
88	2-Hexanone	43	9.890	9.890	(1.186)	157416	17.7034	17.7034
89	1,3-Dichloropropane	76	9.918	9.918	(0.937)	213552	4.45370	4.45370
90	Tetrachloroethene	164	9.974	9.974	(0.942)	285796	4.98200	4.98200
91	Dibromochloromethane	129	10.127	10.127	(0.956)	123377	4.12419	4.12419
92	Tetrahydrothiophene	60	Compound Not Detected.					
93	1,2-Dibromoethane	107	10.267	10.267	(0.970)	95506	4.14871	4.14871
94	1-Chlorohexane	91	10.490	10.490	(0.991)	488147	5.15682	5.15682
96	Chlorobenzene	112	10.616	10.616	(1.003)	804401	4.90016	4.90016
97	1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	220357	4.39086	4.39086
98	Ethylbenzene	106	10.644	10.644	(1.005)	535779	5.02704	5.02704
99	m and p-Xylene	106	10.728	10.728	(1.013)	1348119	10.6610	10.6610
101	o-Xylene	106	11.063	11.063	(1.045)	559765	4.64194	4.64194
100	Styrene	104	Compound Not Detected.					
102	Bromoform	173	11.272	11.272	(1.065)	50608	3.80223	3.80223
103	isopropyl benzene	105	11.328	11.328	(0.904)	1667390	5.72824	5.72824
104	cis-1,4-dichloro-2-butene	53	11.328	11.342	(0.904)	17825	3.22327	3.22327(Q)
105	Cyclohexanone	55	11.454	11.468	(1.082)	43137	86.5973	86.5972
107	1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.920)	109242	4.64686	4.64686
108	t-1,4-Dichloro-2-butene	53	11.552	11.552	(0.922)	98651	21.0278	21.0278(Q)
109	1,2,3-Trichloropropane	110	11.608	11.608	(0.926)	29849	4.20978	4.20978(Q)
111	Bromobenzene	156	11.678	11.677	(0.932)	266709	4.31379	4.31379
110	n-Propylbenzene	120	11.664	11.663	(0.931)	477465	4.97561	4.97561
113	2-Chlorotoluene	126	11.803	11.803	(0.942)	360748	4.81271	4.81271
112	1,3,5-Trimethylbenzene	105	11.775	11.789	(0.940)	1323801	5.19534	5.19534
114	4-Chlorotoluene	126	11.887	11.887	(0.949)	356086	4.80408	4.80408
115	tert-Butylbenzene	119	12.097	12.110	(0.965)	1342242	5.08825	5.08825
116	1,2,4-Trimethylbenzene	105	12.124	12.138	(0.968)	1280011	5.06264	5.06264
118	sec-Butylbenzene	134	12.292	12.306	(0.981)	386279	5.00295	5.00295
119	4-Isopropyltoluene	119	12.390	12.390	(0.989)	1503640	5.30208	5.30208
120	1,3-Dichlorobenzene	146	12.474	12.488	(0.996)	591245	4.62975	4.62975
122	1,4-dichlorobenzene	146	12.543	12.557	(1.001)	633977	4.97049	4.97049
123	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124	n-Butylbenzene	91	12.781	12.795	(1.020)	1479942	5.40298	5.40298
126	1,2-Dichlorobenzene	146	12.934	12.948	(1.032)	438394	4.43852	4.43852
127	1,2-Dibromo-3-chloropropane	157	13.745	13.758	(1.097)	11115	3.49785	3.49784
129	1,2,4-Trichlorobenzene	180	14.834	14.834	(1.184)	266292	3.99685	3.99685
130	Hexachlorobutadiene	225	15.001	15.015	(1.197)	262881	5.09857	5.09857
131	Naphthalene	128	15.239	15.253	(1.216)	257645	3.28532	3.28532
132	1,2,3-Trichlorobenzene	180	15.602	15.616	(1.245)	189786	3.78406	3.78406
144	Dichloroacetonitrile tic	74	Compound Not Detected.					
145	2,3-Dichloro-1-propene tic	75	Compound Not Detected.					

QC Flag Legend

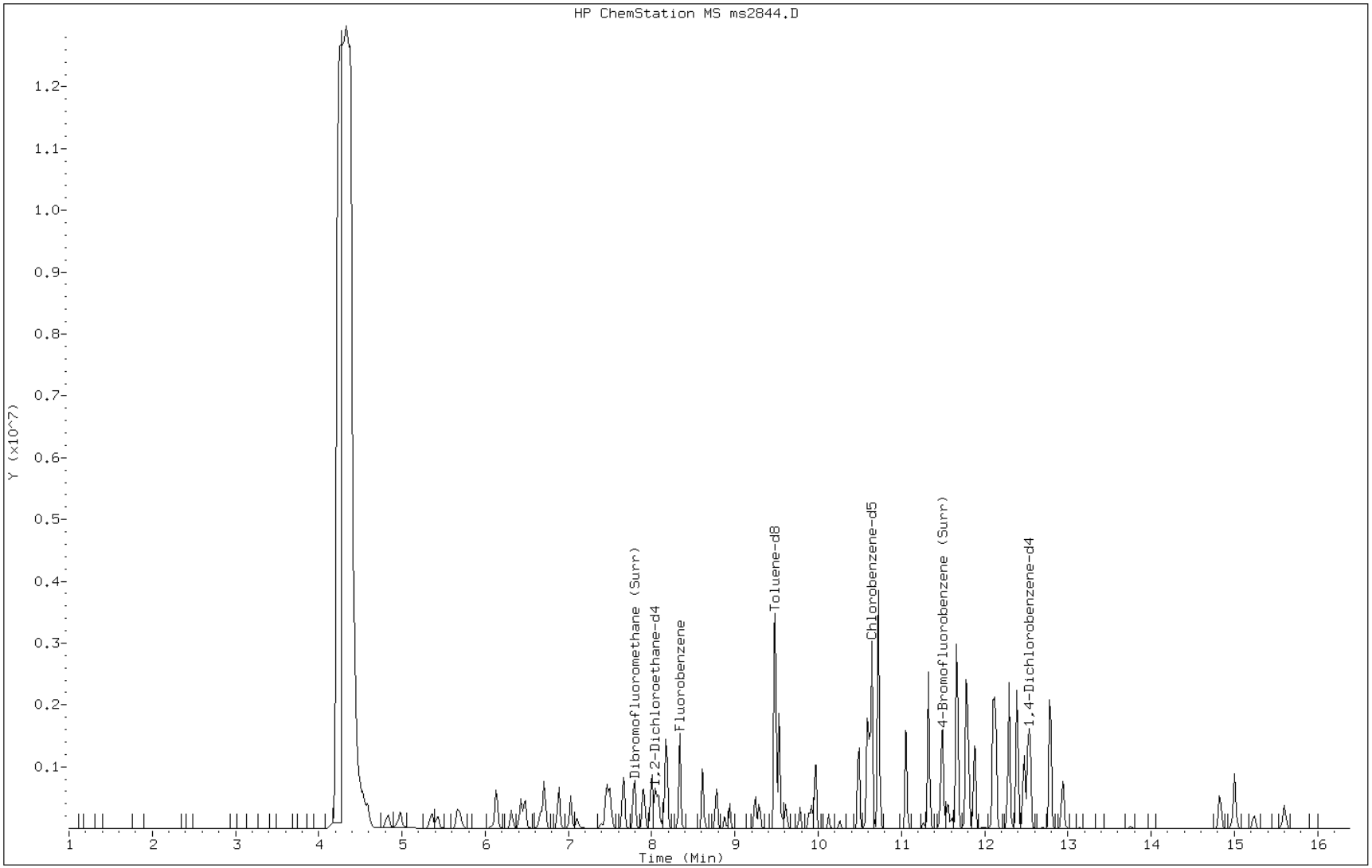
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: ms2844.D

Date: 28-NOV-2011 21:13

Client ID: Instrument: GCMS1.i

Sample Info: 280-22946-b-1 MS,,PH<2 Operator: SEIFERTJ



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-22998-C-2 MS

Matrix: Water | Lab File ID: E4811.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 23:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	19.5		10	1.9
71-43-2	Benzene	6.12		1.0	0.16
108-86-1	Bromobenzene	5.13		1.0	0.17
75-27-4	Bromodichloromethane	4.36		1.0	0.17
75-25-2	Bromoform	4.24		1.0	0.19
74-83-9	Bromomethane	3.84		2.0	0.21
78-93-3	2-Butanone (MEK)	18.3		6.0	2.0
56-23-5	Carbon tetrachloride	4.05		1.0	0.19
108-90-7	Chlorobenzene	5.13		1.0	0.17
74-97-5	Bromochloromethane	4.04		1.0	0.10
124-48-1	Dibromochloromethane	4.38		1.0	0.17
75-00-3	Chloroethane	4.96		2.0	0.41
67-66-3	Chloroform	5.28		1.0	0.16
74-87-3	Chloromethane	4.08		2.0	0.30
95-49-8	2-Chlorotoluene	5.15		1.0	0.17
106-43-4	4-Chlorotoluene	5.17		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.61		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.11		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	4.32	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.59		1.0	0.18
74-95-3	Dibromomethane	3.91		1.0	0.17
95-50-1	1,2-Dichlorobenzene	5.06		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.13		1.0	0.13
106-46-7	1,4-Dichlorobenzene	5.15		1.0	0.16
75-71-8	Dichlorodifluoromethane	5.82		2.0	0.31
75-34-3	1,1-Dichloroethane	43.9		1.0	0.22
107-06-2	1,2-Dichloroethane	4.15		1.0	0.13
75-35-4	1,1-Dichloroethene	5.86		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.18		1.0	0.24
78-87-5	1,2-Dichloropropane	4.44		1.0	0.18
142-28-9	1,3-Dichloropropane	4.79		1.0	0.22
594-20-7	2,2-Dichloropropane	4.42		1.0	0.18
563-58-6	1,1-Dichloropropene	4.17		1.0	0.19
100-41-4	Ethylbenzene	5.02		1.0	0.16
87-68-3	Hexachlorobutadiene	4.82		1.0	0.12
591-78-6	2-Hexanone	16.3		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-22998-C-2 MS

Matrix: Water Lab File ID: E4811.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 23:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.79		1.0	0.19
99-87-6	4-Isopropyltoluene	5.05		1.0	0.20
75-09-2	Methylene Chloride	191		2.0	0.32
108-10-1	4-Methyl-2-pentanone	14.4		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.02	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	11.2		2.0	0.34
91-20-3	Naphthalene	4.73		1.0	0.22
104-51-8	n-Butylbenzene	5.01		1.0	0.14
103-65-1	n-Propylbenzene	5.10		1.0	0.16
95-47-6	o-Xylene	5.21		1.0	0.19
135-98-8	sec-Butylbenzene	5.02		1.0	0.17
100-42-5	Styrene	4.93		1.0	0.17
98-06-6	tert-Butylbenzene	5.19		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.69		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	5.09		1.0	0.21
127-18-4	Tetrachloroethene	7.57		1.0	0.20
108-88-3	Toluene	6.32		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.58		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	3.91		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.77		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.90		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.78		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.08		1.0	0.27
79-01-6	Trichloroethene	5.81		1.0	0.16
75-69-4	Trichlorofluoromethane	4.31		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.32		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.66		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.49		1.0	0.16
75-01-4	Vinyl chloride	4.22		1.0	0.10
1330-20-7	Xylenes, Total	16.4		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-22998-C-2 MS

Matrix: Water Lab File ID: E4811.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 23:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
1868-53-7	Dibromofluoromethane (Surr)	88		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		70-127
2037-26-5	Toluene-d8 (Surr)	106		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4811.D
Lab Smp Id: 280-22998-c-2ms
Inj Date : 29-NOV-2011 23:38
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-22998-c-2ms,,pH<2
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 61 Fluorobenzene	96	8.160	8.166	(1.000)	2031740	12.5000	
* 87 Chlorobenzene-d5	119	10.462	10.469	(1.000)	391198	12.5000	
* 112 1,4-Dichlorobenzene-d4	152	12.422	12.421	(1.000)	491298	12.5000	(Q)
$ 51 Dibromofluoromethane (Surr)	111	7.610	7.608	(0.933)	386160	11.4567	11.4567
$ 57 1,2-Dichloroethane-d4	65	7.910	7.916	(0.969)	289844	10.5679	10.5679
$ 75 Toluene-d8	98	9.340	9.346	(0.893)	2014712	13.7474	13.7474
$ 98 4-Bromofluorobenzene (Surr)	95	11.378	11.384	(0.916)	568871	13.4233	13.4233
M 1 1,2-Dichloroethene (total)	96				437478	9.18371	9.18371
M 2 Xylene (total)	106				1183769	16.3870	16.3870
6 dichlorodifluoromethane	85	4.316	4.327	(0.529)	255251	5.82350	5.82350(Q)
7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
8 Chloromethane	50	4.567	4.565	(0.560)	152301	4.08389	4.08389
9 Vinyl Chloride	62	4.721	4.718	(0.579)	162056	4.21861	4.21861
11 Ethylene Oxide	43	Compound Not Detected.					
12 Bromomethane	94	5.112	5.109	(0.627)	112925	3.83611	3.83611
13 Chloroethane	64	5.182	5.179	(0.635)	162635	4.96073	4.96072
14 Dichlorofluoromethane	67	5.336	5.334	(0.654)	5598552	61.4503	61.4502(A)
15 Trichlorofluoromethane	101	5.461	5.458	(0.669)	276630	4.30598	4.30598
16 Ethanol	45	Compound Not Detected.					
17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					
18 Ethyl Ether	59	5.615	5.613	(0.688)	23738	1.04644	1.04644(a)
19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	5.866	5.863	(0.719)	80874	19.5249	19.5248
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	5.908	5.919	(0.724)	273096	5.86309	5.86309
25 Iodomethane	142	6.101	6.100	(0.748)	244931	4.33076	4.33076
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	6.201	6.200	(0.760)	568918	3.06084	3.06084
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	6.215	6.215	(0.762)	124103	108.690	108.690
31 Methylene Chloride	84	6.265	6.272	(0.768)	7675738	190.564	190.564(AR)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	6.444	6.450	(0.790)	260343	4.02007	4.02007(a)
34 trans-1,2-Dichloroethene	96	6.494	6.501	(0.796)	219104	4.57841	4.57841
35 Hexane	57	6.659	6.665	(0.636)	332242	4.34364	4.34364
36 Vinyl acetate	43	6.752	6.758	(0.827)	133994	3.83637	3.83637
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	6.823	6.830	(0.836)	3432528	43.9457	43.9457(R)
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	7.209	7.209	(0.883)	106225	18.2585	18.2585
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	7.266	7.273	(0.890)	218374	4.60530	4.60530
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	7.295	7.302	(0.894)	281902	4.41994	4.41994(a)
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	7.467	7.473	(0.915)	59548	4.04003	4.04003
49 Chloroform	83	7.474	7.480	(0.916)	360498	5.28395	5.28395
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	7.702	7.702	(0.944)	318330	4.78023	4.78023
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	7.774	7.780	(0.953)	28603	0.28204	0.282036(aQ)
55 1,1-Dichloropropene	75	7.810	7.809	(0.957)	291455	4.16677	4.16677
56 Carbon Tetrachloride	117	7.845	7.852	(0.961)	229753	4.04999	4.04999
58 1,2-Dichloroethane	62	7.967	7.974	(0.976)	146023	4.14534	4.14534
60 Benzene	78	7.996	7.995	(0.980)	1129553	6.11605	6.11605(R)
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	8.446	8.446	(1.035)	273216	5.80661	5.80661
64 2-Pentanone	43	8.475	8.481	(1.039)	70703	7.67900	7.67900
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	8.625	8.631	(1.057)	174968	4.44298	4.44298
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	8.732	8.732	(1.070)	51357	3.91379	3.91378
70 Bromodichloromethane	83	8.796	8.796	(1.078)	175287	4.35850	4.35850
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	9.111	9.118	(1.117)	214068	4.10571	4.10571
74 4-Methyl-2-pentanone	43	9.161	9.161	(1.123)	191033	14.3527	14.3527
76 Toluene	91	9.397	9.397	(1.152)	1274865	6.31692	6.31692(R)
78 trans-1,3-Dichloropropene	75	9.490	9.489	(1.163)	149868	3.90626	3.90626
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	9.654	9.661	(1.183)	78646	4.08163	4.08163
80	2-Hexanone	43	9.769	9.768	(0.934)	123162	16.2553	16.2553
81	1,3-Dichloropropane	76	9.797	9.804	(0.936)	148524	4.79225	4.79225
82	Tetrachloroethene	164	9.826	9.826	(0.939)	239822	7.56526	7.56526(R)
83	Dibromochloromethane	129	10.005	10.004	(0.956)	82820	4.37518	4.37518
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	10.141	10.140	(0.969)	67358	4.59356	4.59356
86	1-Chlorohexane	91	10.362	10.362	(0.990)	286964	4.64801	4.64801
88	Chlorobenzene	112	10.491	10.490	(1.003)	480700	5.13499	5.13499
89	1,1,1,2-Tetrachloroethane	131	10.527	10.526	(1.006)	128242	4.68759	4.68759
90	Ethylbenzene	106	10.527	10.526	(1.006)	304165	5.02202	5.02202
91	m and p-Xylene	106	10.598	10.605	(1.013)	825309	11.1762	11.1762
92	o-Xylene	106	10.941	10.941	(1.046)	358460	5.21085	5.21085
93	Styrene	104	10.934	10.941	(1.045)	504073	4.93147	4.93147
94	Bromoform	173	11.163	11.163	(1.067)	32593	4.24378	4.24378
95	isopropyl benzene	105	11.213	11.213	(0.903)	949678	5.79033	5.79033
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	11.356	11.363	(1.085)	37887	102.349	102.349
99	1,1,2,2-Tetrachloroethane	83	11.428	11.434	(0.920)	73055	5.08633	5.08633
100	t-1,4-Dichloro-2-butene	53	11.463	11.462	(0.923)	92455	23.6173	23.6173
101	1,2,3-Trichloropropane	110	11.514	11.513	(0.927)	20758	5.32399	5.32399
103	Bromobenzene	156	11.564	11.570	(0.931)	151123	5.13067	5.13067
102	n-Propylbenzene	120	11.549	11.556	(0.930)	256984	5.10073	5.10073
105	2-Chlorotoluene	126	11.692	11.692	(0.941)	194262	5.14989	5.14989
104	1,3,5-Trimethylbenzene	105	11.664	11.670	(0.939)	779073	5.48678	5.48678
106	4-Chlorotoluene	126	11.771	11.778	(0.948)	193681	5.17272	5.17272
107	tert-Butylbenzene	119	11.993	11.992	(0.965)	759333	5.19162	5.19162
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	789441	5.66391	5.66391
109	sec-Butylbenzene	134	12.186	12.185	(0.981)	201753	5.01529	5.01529
110	4-Isopropyltoluene	119	12.279	12.285	(0.988)	810589	5.05090	5.05090
111	1,3-Dichlorobenzene	146	12.372	12.371	(0.996)	326322	5.12651	5.12651
113	1,4-dichlorobenzene	146	12.443	12.450	(1.002)	316024	5.15327	5.15327
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	12.679	12.686	(1.021)	801646	5.01098	5.01098
116	1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	258849	5.06339	5.06339
117	1,2-Dibromo-3-chloropropane	157	13.659	13.665	(1.100)	8889	4.31855	4.31855
118	1,2,4-Trichlorobenzene	180	14.717	14.723	(1.185)	169101	4.89650	4.89650
119	Hexachlorobutadiene	225	14.881	14.888	(1.198)	117621	4.82014	4.82014
120	Naphthalene	128	15.131	15.138	(1.218)	225950	4.73459	4.73459
121	1,2,3-Trichlorobenzene	180	15.489	15.496	(1.247)	128004	4.77076	4.77076

QC Flag Legend

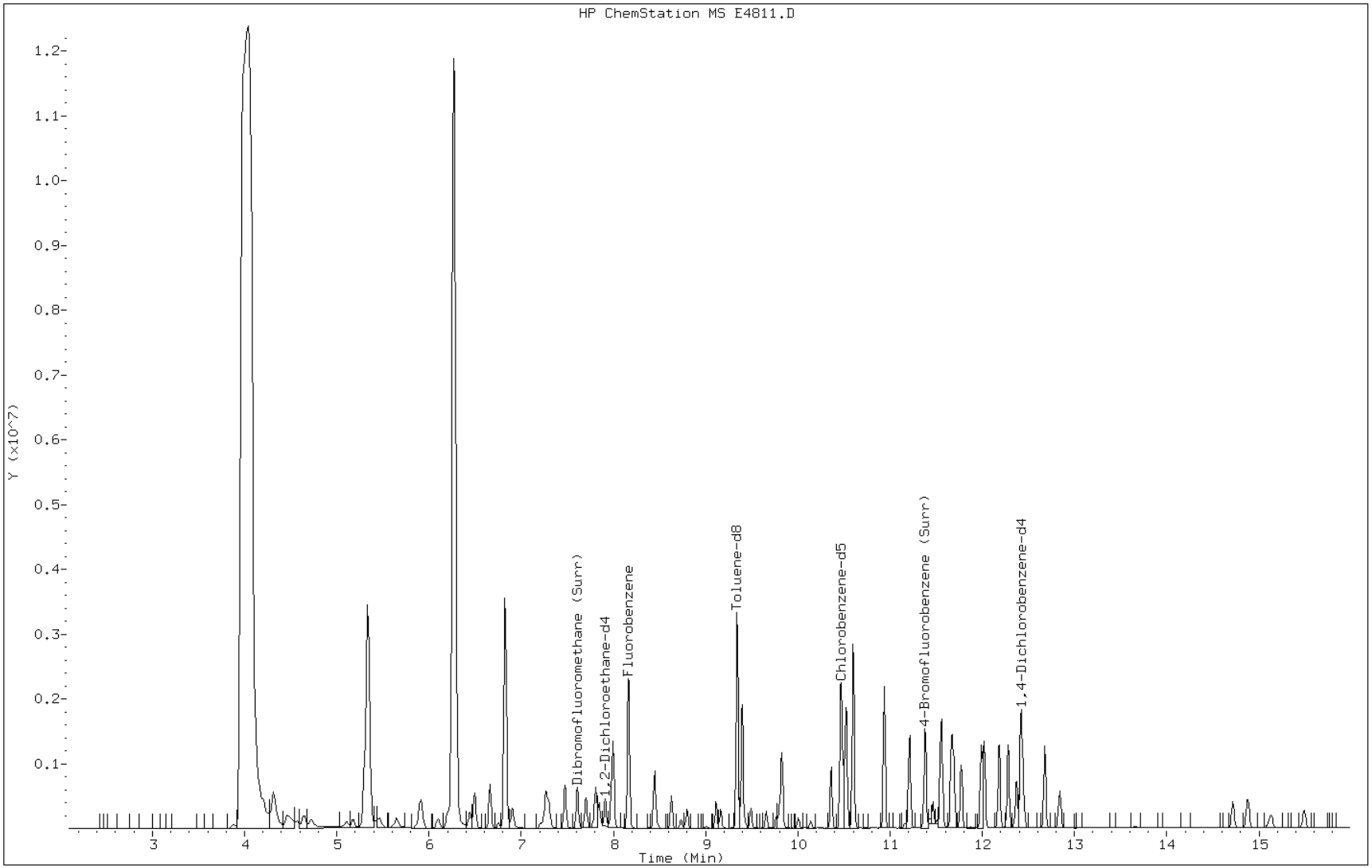
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: E4811.D

Date: 29-NOV-2011 23:38

Client ID: Instrument: E.i

Sample Info: 280-22998-c-2ms,,pH<2 Operator: TINKHAMS



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-23072-A-4 MS

Matrix: Water | Lab File ID: E4882.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2011 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	17.1		10	1.9
71-43-2	Benzene	4.36		1.0	0.16
108-86-1	Bromobenzene	5.22		1.0	0.17
75-27-4	Bromodichloromethane	4.29		1.0	0.17
75-25-2	Bromoform	3.89		1.0	0.19
74-83-9	Bromomethane	3.46		2.0	0.21
78-93-3	2-Butanone (MEK)	17.6		6.0	2.0
56-23-5	Carbon tetrachloride	3.84		1.0	0.19
108-90-7	Chlorobenzene	5.22		1.0	0.17
74-97-5	Bromochloromethane	4.21		1.0	0.10
124-48-1	Dibromochloromethane	4.35		1.0	0.17
75-00-3	Chloroethane	3.95		2.0	0.41
67-66-3	Chloroform	4.48		1.0	0.16
74-87-3	Chloromethane	3.73		2.0	0.30
95-49-8	2-Chlorotoluene	5.26		1.0	0.17
106-43-4	4-Chlorotoluene	5.19		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	8.22		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.01		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.88	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.55		1.0	0.18
74-95-3	Dibromomethane	4.03		1.0	0.17
95-50-1	1,2-Dichlorobenzene	5.17		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.14		1.0	0.13
106-46-7	1,4-Dichlorobenzene	5.17		1.0	0.16
75-71-8	Dichlorodifluoromethane	3.24		2.0	0.31
75-34-3	1,1-Dichloroethane	4.58		1.0	0.22
107-06-2	1,2-Dichloroethane	4.24		1.0	0.13
75-35-4	1,1-Dichloroethene	3.81		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	12.7		1.0	0.24
78-87-5	1,2-Dichloropropane	4.27		1.0	0.18
142-28-9	1,3-Dichloropropane	4.84		1.0	0.22
594-20-7	2,2-Dichloropropane	4.15		1.0	0.18
563-58-6	1,1-Dichloropropene	3.85		1.0	0.19
100-41-4	Ethylbenzene	4.74		1.0	0.16
87-68-3	Hexachlorobutadiene	4.24		1.0	0.12
591-78-6	2-Hexanone	15.7		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-23072-A-4 MS

Matrix: Water | Lab File ID: E4882.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/01/2011 00:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98252 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.48		1.0	0.19
99-87-6	4-Isopropyltoluene	4.68		1.0	0.20
75-09-2	Methylene Chloride	4.75		2.0	0.32
108-10-1	4-Methyl-2-pentanone	14.5		5.0	0.98
1634-04-4	Methyl tert-butyl ether	3.90	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	9.60		2.0	0.34
91-20-3	Naphthalene	4.03		1.0	0.22
104-51-8	n-Butylbenzene	4.60		1.0	0.14
103-65-1	n-Propylbenzene	4.83		1.0	0.16
95-47-6	o-Xylene	4.74		1.0	0.19
135-98-8	sec-Butylbenzene	4.60		1.0	0.17
100-42-5	Styrene	4.68		1.0	0.17
98-06-6	tert-Butylbenzene	4.87		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.78		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	5.35		1.0	0.21
127-18-4	Tetrachloroethene	4.69		1.0	0.20
108-88-3	Toluene	4.19		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.50		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	3.87		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.12		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.33		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.07		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.25		1.0	0.27
79-01-6	Trichloroethene	5.72		1.0	0.16
75-69-4	Trichlorofluoromethane	3.78		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.48		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.03		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.08		1.0	0.16
75-01-4	Vinyl chloride	3.71		1.0	0.10
1330-20-7	Xylenes, Total	14.3		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-23072-A-4 MS

Matrix: Water Lab File ID: E4882.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2011 00:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98252 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
1868-53-7	Dibromofluoromethane (Surr)	93		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		70-127
2037-26-5	Toluene-d8 (Surr)	106		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4882.D
Lab Smp Id: 280-23072-a-4ms
Inj Date : 01-DEC-2011 00:06
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23072-a-4ms,,pH<2
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\8260B-H2O.m
Meth Date : 30-Nov-2011 19:48 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.166	8.166	(1.000)	1894651	12.5000		
*	87 Chlorobenzene-d5	119	10.469	10.468	(1.000)	372391	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.421	12.420	(1.000)	464843	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	381031	12.1225	12.1225	
$	57 1,2-Dichloroethane-d4	65	7.909	7.908	(0.968)	300043	11.7314	11.7314	
$	75 Toluene-d8	98	9.346	9.346	(0.893)	1914578	13.7239	13.7239	
$	98 4-Bromofluorobenzene (Surr)	95	11.377	11.383	(0.916)	549571	13.7059	13.7059	
M	1 1,2-Dichloroethene (total)	96				564496	12.7245	12.7245	(R)
M	2 Xylene (total)	106				985373	14.3423	14.3423	
	6 dichlorodifluoromethane	85	4.327	4.314	(0.530)	125830	3.24293	3.24293	
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	4.578	4.551	(0.561)	129869	3.73436	3.73436	
	9 Vinyl Chloride	62	4.732	4.705	(0.579)	132991	3.71249	3.71249	
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	5.123	5.096	(0.627)	94925	3.45797	3.45797	
	13 Chloroethane	64	5.179	5.180	(0.634)	120909	3.95484	3.95484	
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	5.458	5.459	(0.668)	226366	3.77853	3.77853	
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	5.863	5.864	(0.718)	67284	17.0822	17.0822
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	5.919	5.906	(0.725)	165603	3.81258	3.81258
25 Iodomethane	142	Compound Not Detected.					
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	6.207	6.199	(0.760)	535666	3.09047	3.09047
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	6.214	6.214	(0.761)	78895	74.0964	74.0964(Q)
31 Methylene Chloride	84	6.271	6.271	(0.768)	178318	4.74738	4.74738
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	6.450	6.450	(0.790)	235421	3.89827	3.89827(a)
34 trans-1,2-Dichloroethene	96	6.500	6.500	(0.796)	200925	4.50233	4.50233
35 Hexane	57	6.665	6.664	(0.637)	268534	3.68804	3.68804
36 Vinyl acetate	43	6.758	6.757	(0.828)	113402	3.48173	3.48172
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	6.829	6.829	(0.836)	333953	4.58487	4.58487
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	7.208	7.208	(0.883)	95648	17.6301	17.6300
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	7.272	7.265	(0.891)	363571	8.22214	8.22214(R)
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	7.294	7.294	(0.893)	246579	4.14585	4.14584(a)
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	7.473	7.473	(0.915)	57876	4.21071	4.21070
49 Chloroform	83	7.480	7.480	(0.916)	285322	4.48466	4.48466
50 Tetrahydrofuran	42	7.508	7.508	(0.919)	23467	6.47327	6.47327
53 1,1,1-Trichloroethane	97	7.701	7.701	(0.943)	252649	4.06844	4.06844
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	7.809	7.809	(0.956)	251430	3.85464	3.85464
56 Carbon Tetrachloride	117	7.845	7.844	(0.961)	203244	3.84193	3.84193(R)
58 1,2-Dichloroethane	62	7.973	7.973	(0.976)	139082	4.23848	4.23848
60 Benzene	78	7.995	7.994	(0.979)	751530	4.36365	4.36365
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	8.445	8.445	(1.034)	251028	5.72108	5.72108
64 2-Pentanone	43	8.481	8.480	(1.039)	58221	6.78087	6.78087
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	8.631	8.631	(1.057)	156929	4.27325	4.27325
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	8.731	8.731	(1.069)	49357	4.03353	4.03353
70 Bromodichloromethane	83	8.803	8.802	(1.078)	160926	4.29094	4.29094
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	9.117	9.117	(1.116)	194796	4.00641	4.00641
74 4-Methyl-2-pentanone	43	9.160	9.167	(1.122)	179754	14.4825	14.4825
76 Toluene	91	9.396	9.396	(1.151)	788423	4.18928	4.18928
78 trans-1,3-Dichloropropene	75	9.489	9.489	(1.162)	138370	3.86753	3.86753
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
79	1,1,2-Trichloroethane	97	9.661	9.660	(1.183)	76318	4.24740	4.24740
80	2-Hexanone	43	9.768	9.768	(0.933)	113249	15.7018	15.7018
81	1,3-Dichloropropane	76	9.804	9.803	(0.936)	142796	4.84012	4.84012
82	Tetrachloroethene	164	9.825	9.825	(0.939)	141613	4.69284	4.69284
83	Dibromochloromethane	129	10.004	10.004	(0.956)	78286	4.34562	4.34562
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	63453	4.54580	4.54580
86	1-Chlorohexane	91	10.361	10.361	(0.990)	233706	3.97655	3.97655
88	Chlorobenzene	112	10.490	10.490	(1.002)	465436	5.22304	5.22304
89	1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	124467	4.77937	4.77937
90	Ethylbenzene	106	10.526	10.526	(1.005)	273496	4.74371	4.74371
91	m and p-Xylene	106	10.597	10.604	(1.012)	674744	9.59872	9.59872
92	o-Xylene	106	10.941	10.940	(1.045)	310629	4.74359	4.74359
93	Styrene	104	10.941	10.940	(1.045)	455528	4.68161	4.68161
94	Bromoform	173	11.162	11.162	(1.066)	28429	3.88854	3.88854
95	isopropyl benzene	105	11.212	11.212	(0.903)	850700	5.48204	5.48204
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	11.362	11.362	(1.085)	36241	102.847	102.847
99	1,1,2,2-Tetrachloroethane	83	11.427	11.434	(0.920)	72722	5.35130	5.35130
100	t-1,4-Dichloro-2-butene	53	11.462	11.469	(0.923)	79166	21.3736	21.3736
101	1,2,3-Trichloropropane	110	11.513	11.512	(0.927)	20206	5.47736	5.47736
103	Bromobenzene	156	11.563	11.570	(0.931)	145388	5.21688	5.21688
102	n-Propylbenzene	120	11.548	11.555	(0.930)	230173	4.82858	4.82858
105	2-Chlorotoluene	126	11.691	11.691	(0.941)	187792	5.26170	5.26170
104	1,3,5-Trimethylbenzene	105	11.663	11.670	(0.939)	682060	5.07692	5.07692
106	4-Chlorotoluene	126	11.770	11.777	(0.948)	183892	5.19079	5.19079
107	tert-Butylbenzene	119	11.992	11.991	(0.965)	673731	4.86851	4.86851
108	1,2,4-Trimethylbenzene	105	12.020	12.027	(0.968)	663928	5.03450	5.03450
109	sec-Butylbenzene	134	12.185	12.184	(0.981)	174962	4.59683	4.59683
110	4-Isopropyltoluene	119	12.278	12.285	(0.988)	710011	4.67597	4.67597
111	1,3-Dichlorobenzene	146	12.371	12.370	(0.996)	309405	5.13738	5.13738
113	1,4-dichlorobenzene	146	12.442	12.449	(1.002)	299867	5.16809	5.16809
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	12.678	12.685	(1.021)	696699	4.60282	4.60282
116	1,2-Dichlorobenzene	146	12.842	12.842	(1.034)	249828	5.16505	5.16505
117	1,2-Dibromo-3-chloropropane	157	13.658	13.672	(1.100)	7549	3.87626	3.87626
118	1,2,4-Trichlorobenzene	180	14.716	14.723	(1.185)	141582	4.33297	4.33297
119	Hexachlorobutadiene	225	14.880	14.887	(1.198)	97902	4.24038	4.24038
120	Naphthalene	128	15.130	15.137	(1.218)	182096	4.03282	4.03282
121	1,2,3-Trichlorobenzene	180	15.488	15.502	(1.247)	104537	4.11787	4.11787

QC Flag Legend

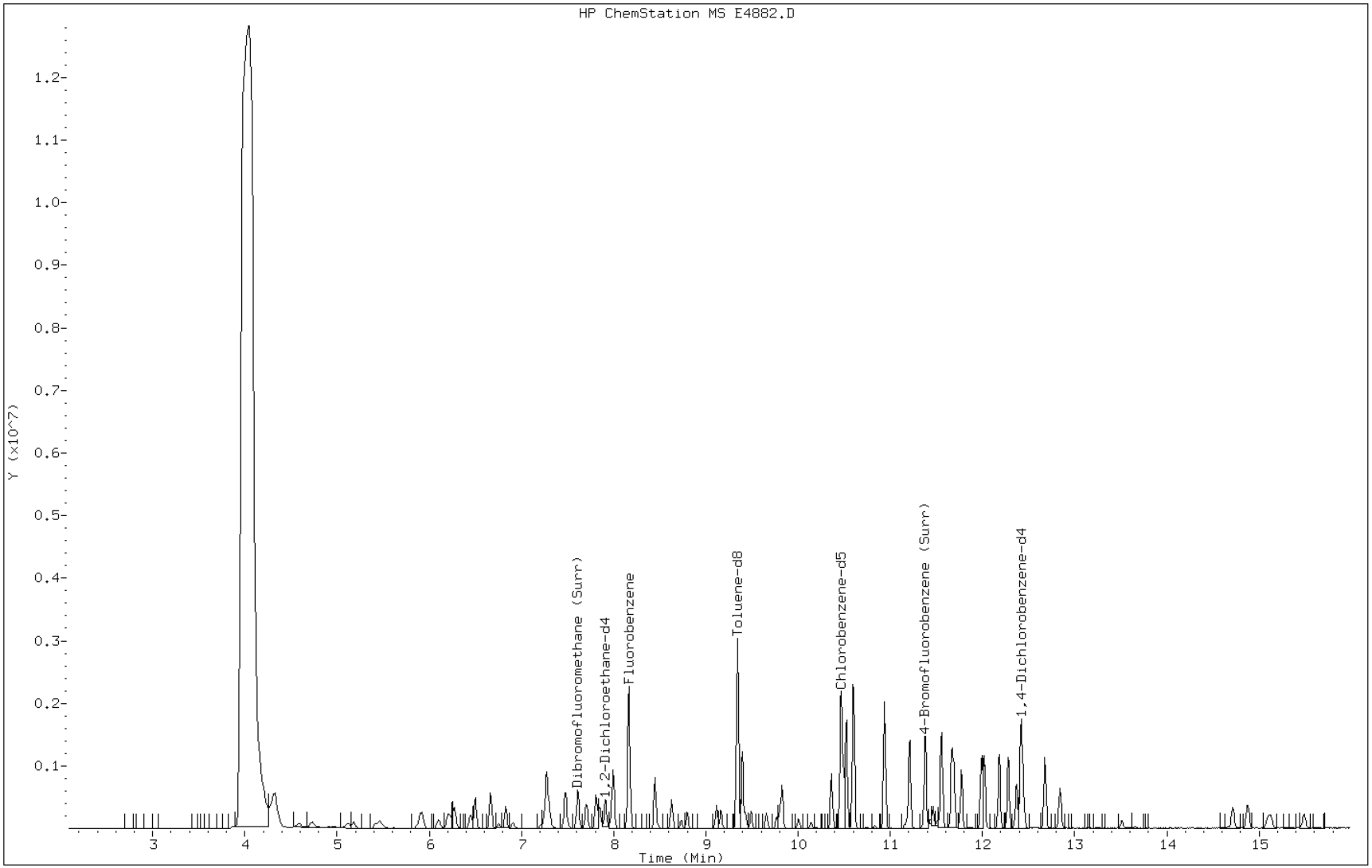
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: E4882.D

Date: 01-DEC-2011 00:06

Client ID: Instrument: E.i

Sample Info: 280-23072-a-4ms,,pH<2 Operator: TINKHAMS



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-22946-B-1 MSD

Matrix: Water | Lab File ID: ms2845.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 21:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	19.1		10	1.9
71-43-2	Benzene	5.40		1.0	0.16
108-86-1	Bromobenzene	4.28		1.0	0.17
75-27-4	Bromodichloromethane	4.84		1.0	0.17
75-25-2	Bromoform	3.73		1.0	0.19
74-83-9	Bromomethane	4.44		2.0	0.21
78-93-3	2-Butanone (MEK)	23.7		6.0	2.0
56-23-5	Carbon tetrachloride	4.96		1.0	0.19
108-90-7	Chlorobenzene	4.88		1.0	0.17
74-97-5	Bromochloromethane	4.29		1.0	0.10
124-48-1	Dibromochloromethane	4.29		1.0	0.17
75-00-3	Chloroethane	5.29		2.0	0.41
67-66-3	Chloroform	4.95		1.0	0.16
74-87-3	Chloromethane	4.48		2.0	0.30
95-49-8	2-Chlorotoluene	4.78		1.0	0.17
106-43-4	4-Chlorotoluene	4.83		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.86		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.62		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.18	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.36		1.0	0.18
74-95-3	Dibromomethane	4.53		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.39		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.60		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.90		1.0	0.16
75-71-8	Dichlorodifluoromethane	4.68		2.0	0.31
75-34-3	1,1-Dichloroethane	5.28		1.0	0.22
107-06-2	1,2-Dichloroethane	4.53		1.0	0.13
75-35-4	1,1-Dichloroethene	5.42		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	10.2		1.0	0.24
78-87-5	1,2-Dichloropropane	4.97		1.0	0.18
142-28-9	1,3-Dichloropropane	4.56		1.0	0.22
594-20-7	2,2-Dichloropropane	5.34		1.0	0.18
563-58-6	1,1-Dichloropropene	5.05		1.0	0.19
100-41-4	Ethylbenzene	5.06		1.0	0.16
87-68-3	Hexachlorobutadiene	4.76		1.0	0.12
591-78-6	2-Hexanone	18.8		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-22946-B-1 MSD

Matrix: Water | Lab File ID: ms2845.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/28/2011 21:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 97860 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.64		1.0	0.19
99-87-6	4-Isopropyltoluene	5.21		1.0	0.20
75-09-2	Methylene Chloride	5.01		2.0	0.32
108-10-1	4-Methyl-2-pentanone	20.2		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.28	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	10.5		2.0	0.34
91-20-3	Naphthalene	3.21		1.0	0.22
104-51-8	n-Butylbenzene	5.27		1.0	0.14
103-65-1	n-Propylbenzene	4.90		1.0	0.16
95-47-6	o-Xylene	4.64		1.0	0.19
135-98-8	sec-Butylbenzene	4.89		1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	5.06		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.38		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.82		1.0	0.21
127-18-4	Tetrachloroethene	4.90		1.0	0.20
108-88-3	Toluene	5.42		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	5.30		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.89		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	3.65		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	3.85		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.89		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.51		1.0	0.27
79-01-6	Trichloroethene	4.80		1.0	0.16
75-69-4	Trichlorofluoromethane	4.76		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.22		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.04		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.18		1.0	0.16
75-01-4	Vinyl chloride	4.42		1.0	0.10
1330-20-7	Xylenes, Total	15.2		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-22946-B-1 MSD

Matrix: Water Lab File ID: ms2845.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/28/2011 21:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (60.25) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 97860 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		78-120
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		70-127
2037-26-5	Toluene-d8 (Surr)	100		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\ms2845.D
Lab Smp Id: 280-22946-b-1 MSD
Inj Date : 28-NOV-2011 21:33
Operator : SEIFERTJ   Inst ID: GCMS1.i
Smp Info : 280-22946-b-1 MSD,,PH<2
Misc Info : ms2844.D
Comment   :
Method   : \\DenSvr03\Public\chem\MSV\GCMS1.i\112811.b\8260B-H2O.m
Meth Date : 28-Nov-2011 23:49 seifertj   Quant Type: ISTD
Cal Date : 02-NOV-2011 01:41   Cal File: ms1801.D
Als bottle: 2   QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC251

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 69 Fluorobenzene	96	8.339	8.339	(1.000)	1436317	12.5000	
* 95 Chlorobenzene-d5	119	10.588	10.588	(1.000)	296275	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.529	12.529	(1.000)	407185	12.5000	
$ 58 Dibromofluoromethane (Surr)	111	7.795	7.795	(0.935)	537866	9.40564	9.40564
$ 64 1,2-Dichloroethane-d4	65	8.088	8.088	(0.970)	397358	8.85657	8.85657
$ 83 Toluene-d8	98	9.485	9.485	(0.896)	2681150	9.96688	9.96688
$ 106 4-Bromofluorobenzene (Surr)	95	11.482	11.482	(0.916)	716206	9.66862	9.66862
M 1 1,2-Dichloroethene (total)	96				676698	10.1610	10.1610
M 2 Xylene (total)	106				1841304	15.1726	15.1726
5 dichlorodifluoromethane	85	4.597	4.597	(0.551)	274233	4.67739	4.67739
6 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
7 Chloromethane	50	4.834	4.820	(0.580)	410738	4.47931	4.47931
8 Vinyl Chloride	62	4.988	4.974	(0.598)	418032	4.41960	4.41960
9 Ethylene Oxide	43	Compound Not Detected.					
10 Bromomethane	94	5.365	5.351	(0.643)	267011	4.43548	4.43548
11 Chloroethane	64	5.434	5.435	(0.652)	272619	5.28985	5.28985
12 Dichlorofluoromethane	67	Compound Not Detected.					
14 Trichlorofluoromethane	101	5.672	5.672	(0.680)	478079	4.75867	4.75867
13 Ethanol	45	Compound Not Detected.					
15 1,2-dichloro-1,1,2-trifluoroe	117	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
18 Propylene Oxide	58	6.077	5.951	(0.729)	29803	8.37927	8.37927(Q)
19 Acrolein	56	Compound Not Detected.					
20 Acetone	43	6.077	6.077	(0.729)	83694	19.1336	19.1336
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
22 2-propanol	45	6.105	6.105	(0.732)	3002	3.09615	3.09615(Q)
23 1,1-Dichloroethene	96	6.133	6.133	(0.735)	288415	5.42071	5.42070
27 Iodomethane	142	6.314	6.314	(0.757)	412567	4.94078	4.94078
26 Acetonitrile	41	6.426	6.300	(0.771)	33730	21.0182	21.0182(Q)
28 Methyl Acetate	43	Compound Not Detected.					
31 Carbon Disulfide	76	6.426	6.426	(0.771)	766604	3.03572	3.03572
29 Allyl Chloride	41	6.426	6.384	(0.771)	33730	0.40128	0.401284(aQ)
30 tert-Butyl alcohol	59	6.440	6.426	(0.772)	90814	67.5212	67.5212
33 Methylene Chloride	84	6.482	6.482	(0.777)	270886	5.00553	5.00553
34 Acrylonitrile	53	Compound Not Detected.					
35 Methyl t-butyl ether	73	6.664	6.664	(0.799)	348861	4.27672	4.27672
36 trans-1,2-Dichloroethene	96	6.705	6.705	(0.804)	347376	5.29884	5.29884
40 Hexane	57	6.887	6.887	(0.650)	417885	3.81404	3.81404
42 Vinyl acetate	43	6.887	6.957	(0.826)	253428	6.16331	6.16331
43 Isopropyl ether	87	Compound Not Detected.					
44 1,1-Dichloroethane	63	7.027	7.027	(0.843)	572371	5.28147	5.28147
46 Chloroprene	53	Compound Not Detected.					
48 ETBE	59	Compound Not Detected.					
50 2-Butanone	43	7.390	7.390	(0.886)	147627	23.7445	23.7444
49 Ethyl Acetate	43	7.390	7.376	(0.886)	147627	7.92206	7.92206(Q)
52 cis-1,2-Dichloroethene	96	7.460	7.460	(0.894)	329322	4.86220	4.86220
51 Propionitrile	54	Compound Not Detected.					
53 2,2-Dichloropropane	77	7.501	7.502	(0.900)	457891	5.34491	5.34491
54 Methacrylonitrile	41	Compound Not Detected.					
55 Bromochloromethane	128	7.655	7.655	(0.918)	94725	4.29323	4.29323
56 Chloroform	83	7.669	7.655	(0.920)	500954	4.95093	4.95093
57 Tetrahydrofuran	42	Compound Not Detected.					
60 1,1,1-Trichloroethane	97	7.907	7.907	(0.948)	486098	4.89121	4.89121
59 Isobutanol	41	Compound Not Detected.					
61 Cyclohexane	56	Compound Not Detected.					
62 1,1-Dichloropropene	75	8.004	8.004	(0.960)	470213	5.05480	5.05480
63 Carbon Tetrachloride	117	8.046	8.046	(0.965)	404171	4.95569	4.95569
65 1,2-Dichloroethane	62	8.144	8.144	(0.977)	217607	4.53476	4.53476
67 Benzene	78	8.172	8.172	(0.980)	1353283	5.39627	5.39627
66 TAME	73	Compound Not Detected.					
68 n-Butanol	56	8.339	8.340	(1.000)	8163	15.9595	15.9595
71 Trichloroethene	130	8.605	8.605	(1.032)	341025	4.79538	4.79538
72 2-Pentanone	43	8.633	8.633	(1.035)	65397	6.41850	6.41850
73 Methyl Methacrylate	100	Compound Not Detected.					
74 1,2-Dichloropropane	63	8.772	8.772	(1.052)	252346	4.96554	4.96554
75 Methyl Cyclohexane	55	Compound Not Detected.					
76 1,4-Dioxane	88	Compound Not Detected.					
77 Dibromomethane	93	8.870	8.870	(1.064)	88918	4.53183	4.53183
78 Bromodichloromethane	83	8.940	8.940	(1.072)	267755	4.83853	4.83853
79 2-nitropropane	41	Compound Not Detected.					
80 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
81 cis-1,3-Dichloropropene	75	9.247	9.247	(0.873)	299205	4.62486	4.62486
82 4-Methyl-2-pentanone	43	9.289	9.289	(0.877)	264452	20.1792	20.1792
84 Toluene	91	9.527	9.527	(1.142)	1448418	5.42201	5.42201
86 trans-1,3-Dichloropropene	75	9.610	9.610	(1.152)	219601	4.88554	4.88554
85 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
87	1,1,2-Trichloroethane	97	9.778	9.778	(1.172)	110739	4.50924	4.50924
88	2-Hexanone	43	9.890	9.890	(1.186)	165287	18.8299	18.8299
89	1,3-Dichloropropane	76	9.918	9.918	(0.937)	212779	4.55833	4.55833
90	Tetrachloroethene	164	9.974	9.974	(0.942)	273767	4.90217	4.90217
91	Dibromochloromethane	129	10.127	10.127	(0.956)	124821	4.28600	4.28600
92	Tetrahydrothiophene	60	Compound Not Detected.					
93	1,2-Dibromoethane	107	10.267	10.267	(0.970)	97705	4.35973	4.35973
94	1-Chlorohexane	91	10.490	10.490	(0.991)	463617	5.03096	5.03096
96	Chlorobenzene	112	10.616	10.616	(1.003)	780469	4.88375	4.88375
97	1,1,1,2-Tetrachloroethane	131	10.644	10.644	(1.005)	214166	4.38362	4.38362
98	Ethylbenzene	106	10.644	10.644	(1.005)	524838	5.05839	5.05838
99	m and p-Xylene	106	10.728	10.728	(1.013)	1296686	10.5333	10.5333
101	o-Xylene	106	11.063	11.063	(1.045)	544618	4.63923	4.63923
100	Styrene	104	Compound Not Detected.					
102	Bromoform	173	11.272	11.272	(1.065)	48279	3.72595	3.72595
103	isopropyl benzene	105	11.328	11.328	(0.904)	1597635	5.64097	5.64097
104	cis-1,4-dichloro-2-butene	53	11.328	11.342	(0.904)	19124	3.55417	3.55417
105	Cyclohexanone	55	11.454	11.468	(1.082)	46338	95.5545	95.5545
107	1,1,2,2-Tetrachloroethane	83	11.524	11.524	(0.920)	110241	4.81954	4.81954
108	t-1,4-Dichloro-2-butene	53	11.552	11.552	(0.922)	105126	23.0300	23.0300(Q)
109	1,2,3-Trichloropropane	110	11.608	11.608	(0.926)	29094	4.21721	4.21721(Q)
111	Bromobenzene	156	11.677	11.677	(0.932)	257275	4.27672	4.27672
110	n-Propylbenzene	120	11.663	11.663	(0.931)	457967	4.90491	4.90491
113	2-Chlorotoluene	126	11.803	11.803	(0.942)	348912	4.78403	4.78403
112	1,3,5-Trimethylbenzene	105	11.775	11.789	(0.940)	1285216	5.18394	5.18394
114	4-Chlorotoluene	126	11.887	11.887	(0.949)	348169	4.82768	4.82768
115	tert-Butylbenzene	119	12.096	12.110	(0.965)	1299634	5.06350	5.06350
116	1,2,4-Trimethylbenzene	105	12.124	12.138	(0.968)	1239184	5.03722	5.03722
118	sec-Butylbenzene	134	12.292	12.306	(0.981)	367562	4.89269	4.89269
119	4-Isopropyltoluene	119	12.390	12.390	(0.989)	1438707	5.21395	5.21395
120	1,3-Dichlorobenzene	146	12.473	12.488	(0.996)	572110	4.60429	4.60428
122	1,4-dichlorobenzene	146	12.543	12.557	(1.001)	607598	4.89592	4.89592
123	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
124	n-Butylbenzene	91	12.781	12.795	(1.020)	1405786	5.27472	5.27472
126	1,2-Dichlorobenzene	146	12.948	12.948	(1.033)	421713	4.38817	4.38817
127	1,2-Dibromo-3-chloropropane	157	13.744	13.758	(1.097)	9824	3.17740	3.17740(R)
129	1,2,4-Trichlorobenzene	180	14.834	14.834	(1.184)	249800	3.85340	3.85340
130	Hexachlorobutadiene	225	15.001	15.015	(1.197)	238567	4.75546	4.75546
131	Naphthalene	128	15.239	15.253	(1.216)	245244	3.21401	3.21401
132	1,2,3-Trichlorobenzene	180	15.602	15.616	(1.245)	178065	3.64892	3.64892
144	Dichloroacetonitrile tic	74	Compound Not Detected.					
145	2,3-Dichloro-1-propene tic	75	Compound Not Detected.					

QC Flag Legend

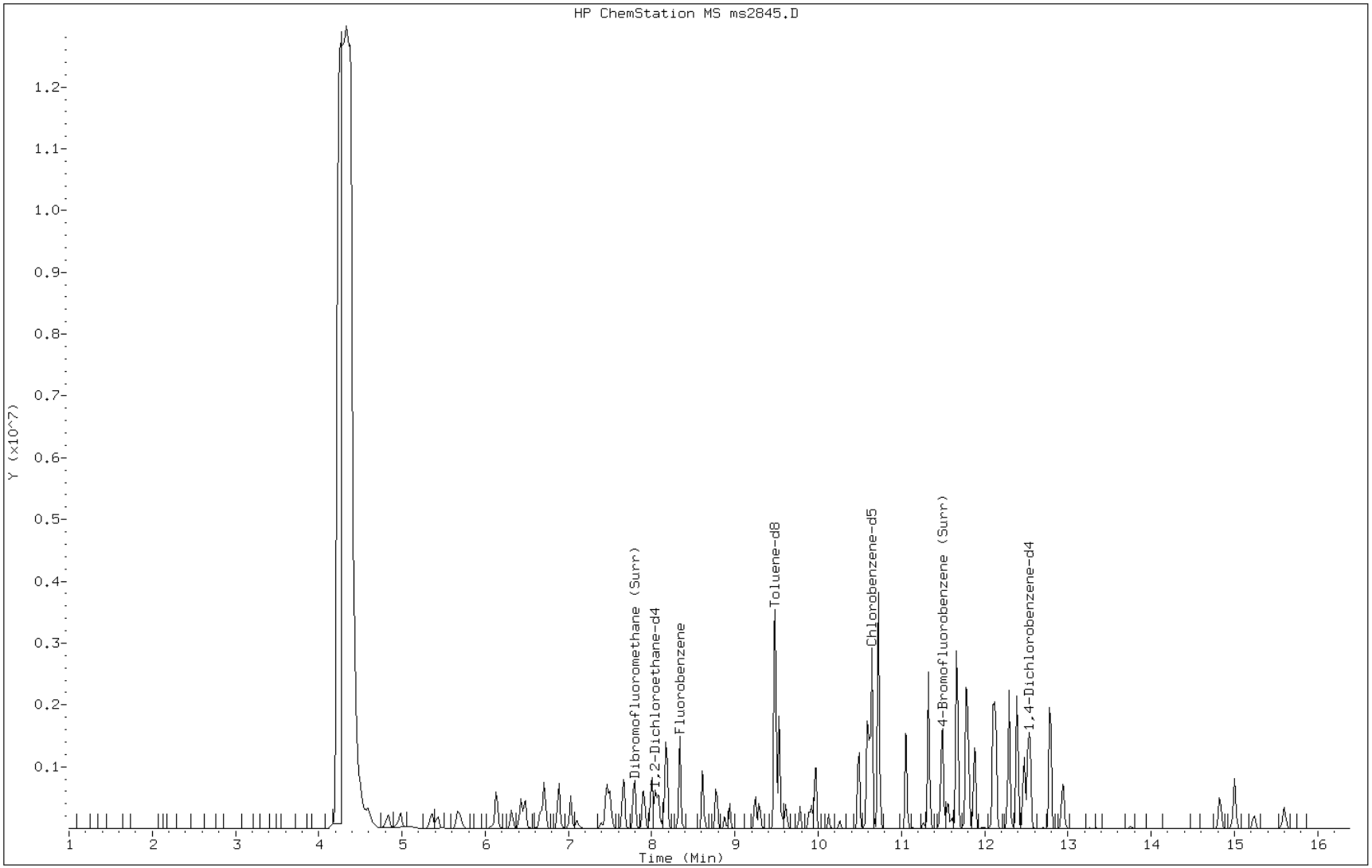
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: ms2845.D

Date: 28-NOV-2011 21:33

Client ID: Instrument: GCMS1.i

Sample Info: 280-22946-b-1 MSD,,PH<2 Operator: SEIFERTJ



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-23016-1

SDG No.:

Client Sample ID: | Lab Sample ID: 280-22998-C-2 MSD

Matrix: Water | Lab File ID: E4812.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 11/29/2011 23:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 98185 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	21.1		10	1.9
71-43-2	Benzene	6.32		1.0	0.16
108-86-1	Bromobenzene	5.29		1.0	0.17
75-27-4	Bromodichloromethane	4.50		1.0	0.17
75-25-2	Bromoform	4.44		1.0	0.19
74-83-9	Bromomethane	3.99		2.0	0.21
78-93-3	2-Butanone (MEK)	19.7		6.0	2.0
56-23-5	Carbon tetrachloride	4.30		1.0	0.19
108-90-7	Chlorobenzene	5.41		1.0	0.17
74-97-5	Bromochloromethane	4.33		1.0	0.10
124-48-1	Dibromochloromethane	4.59		1.0	0.17
75-00-3	Chloroethane	4.93		2.0	0.41
67-66-3	Chloroform	5.45		1.0	0.16
74-87-3	Chloromethane	4.20		2.0	0.30
95-49-8	2-Chlorotoluene	5.44		1.0	0.17
106-43-4	4-Chlorotoluene	5.38		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.93		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.39		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	4.54	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.83		1.0	0.18
74-95-3	Dibromomethane	4.16		1.0	0.17
95-50-1	1,2-Dichlorobenzene	5.24		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.35		1.0	0.13
106-46-7	1,4-Dichlorobenzene	5.33		1.0	0.16
75-71-8	Dichlorodifluoromethane	5.47		2.0	0.31
75-34-3	1,1-Dichloroethane	43.5		1.0	0.22
107-06-2	1,2-Dichloroethane	4.50		1.0	0.13
75-35-4	1,1-Dichloroethene	5.79		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.70		1.0	0.24
78-87-5	1,2-Dichloropropane	4.71		1.0	0.18
142-28-9	1,3-Dichloropropane	5.05		1.0	0.22
594-20-7	2,2-Dichloropropane	4.58		1.0	0.18
563-58-6	1,1-Dichloropropene	4.33		1.0	0.19
100-41-4	Ethylbenzene	5.28		1.0	0.16
87-68-3	Hexachlorobutadiene	4.90		1.0	0.12
591-78-6	2-Hexanone	17.1		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-22998-C-2 MSD

Matrix: Water Lab File ID: E4812.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 23:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	6.01		1.0	0.19
99-87-6	4-Isopropyltoluene	5.23		1.0	0.20
75-09-2	Methylene Chloride	188		2.0	0.32
108-10-1	4-Methyl-2-pentanone	15.4		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.35	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	11.4		2.0	0.34
91-20-3	Naphthalene	4.87		1.0	0.22
104-51-8	n-Butylbenzene	5.10		1.0	0.14
103-65-1	n-Propylbenzene	5.26		1.0	0.16
95-47-6	o-Xylene	5.49		1.0	0.19
135-98-8	sec-Butylbenzene	5.15		1.0	0.17
100-42-5	Styrene	5.09		1.0	0.17
98-06-6	tert-Butylbenzene	5.33		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	5.14		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	5.54		1.0	0.21
127-18-4	Tetrachloroethene	7.66		1.0	0.20
108-88-3	Toluene	6.38		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.77		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.25		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.79		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.95		1.0	0.21
71-55-6	1,1,1-Trichloroethane	5.00		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.42		1.0	0.27
79-01-6	Trichloroethene	5.94		1.0	0.16
75-69-4	Trichlorofluoromethane	4.14		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.50		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.83		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.58		1.0	0.16
75-01-4	Vinyl chloride	3.98		1.0	0.10
1330-20-7	Xylenes, Total	16.9		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-22998-C-2 MSD

Matrix: Water Lab File ID: E4812.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 11/29/2011 23:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98185 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
1868-53-7	Dibromofluoromethane (Surr)	91		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		70-127
2037-26-5	Toluene-d8 (Surr)	108		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\112911pm\E4812.D
Lab Smp Id: 280-22998-c-2msd
Inj Date : 29-NOV-2011 23:57
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-22998-c-2msd,,pH<2
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\112911pm\8260B-H2O.m
Meth Date : 29-Nov-2011 21:35 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 61	Fluorobenzene	96	8.167	8.166	(1.000)	2041818	12.5000	
* 87	Chlorobenzene-d5	119	10.469	10.469	(1.000)	392308	12.5000	
* 112	1,4-Dichlorobenzene-d4	152	12.421	12.421	(1.000)	493882	12.5000	(Q)
$ 51	Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	400904	11.8354	11.8354
$ 57	1,2-Dichloroethane-d4	65	7.909	7.916	(0.968)	305313	11.0770	11.0770
$ 75	Toluene-d8	98	9.347	9.346	(0.893)	2056674	13.9940	13.9940
$ 98	4-Bromofluorobenzene (Surr)	95	11.384	11.384	(0.917)	579037	13.5917	13.5917
M 1	1,2-Dichloroethene (total)	96				464200	9.69717	9.69717
M 2	Xylene (total)	106				1222903	16.8893	16.8893
6	dichlorodifluoromethane	85	4.327	4.327	(0.530)	240037	5.47178	5.47178(Q)
7	1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.					
8	Chloromethane	50	4.578	4.565	(0.561)	157487	4.20211	4.20211
9	Vinyl Chloride	62	4.732	4.718	(0.579)	153829	3.98468	3.98468
11	Ethylene Oxide	43	Compound Not Detected.					
12	Bromomethane	94	5.123	5.109	(0.627)	118171	3.99451	3.99451
13	Chloroethane	64	5.193	5.179	(0.636)	162351	4.92762	4.92762
14	Dichlorofluoromethane	67	5.346	5.334	(0.655)	5333836	58.2557	58.2557
15	Trichlorofluoromethane	101	5.472	5.458	(0.670)	267434	4.14229	4.14229
16	Ethanol	45	Compound Not Detected.					
17	1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					
18	Ethyl Ether	59	5.612	5.613	(0.687)	24188	1.06102	1.06102(a)
19	2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	5.877	5.863	(0.720)	87105	21.1496	21.1496
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	5.919	5.919	(0.725)	270980	5.78895	5.78895
25 Iodomethane	142	6.107	6.100	(0.748)	263671	4.63910	4.63910
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	6.208	6.200	(0.760)	571088	3.05735	3.05735
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	6.215	6.215	(0.761)	127683	111.274	111.274
31 Methylene Chloride	84	6.272	6.272	(0.768)	7627135	188.422	188.422(AR)
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	6.451	6.450	(0.790)	282902	4.34685	4.34685(a)
34 trans-1,2-Dichloroethene	96	6.501	6.501	(0.796)	229381	4.76951	4.76950
35 Hexane	57	6.665	6.665	(0.637)	318381	4.15065	4.15065
36 Vinyl acetate	43	6.758	6.758	(0.828)	143693	4.09375	4.09375
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	6.830	6.830	(0.836)	3412982	43.4798	43.4798(R)
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	7.209	7.209	(0.883)	115341	19.7276	19.7276
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	7.273	7.273	(0.891)	234819	4.92766	4.92766
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	7.302	7.302	(0.894)	293429	4.57796	4.57796(a)
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	7.473	7.473	(0.915)	64069	4.32530	4.32530
49 Chloroform	83	7.480	7.480	(0.916)	373467	5.44702	5.44702
50 Tetrahydrofuran	42	Compound Not Detected.					
53 1,1,1-Trichloroethane	97	7.702	7.702	(0.943)	334576	4.99939	4.99939
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	7.809	7.809	(0.956)	304409	4.33048	4.33048
56 Carbon Tetrachloride	117	7.845	7.852	(0.961)	245208	4.30109	4.30109
58 1,2-Dichloroethane	62	7.974	7.974	(0.976)	158575	4.49640	4.49640
60 Benzene	78	7.995	7.995	(0.979)	1172569	6.31763	6.31762(R)
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	8.446	8.446	(1.034)	281102	5.94472	5.94472
64 2-Pentanone	43	8.481	8.481	(1.039)	73734	7.96866	7.96866
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	8.631	8.631	(1.057)	186267	4.70656	4.70656
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	8.739	8.732	(1.070)	54895	4.16276	4.16276
70 Bromodichloromethane	83	8.796	8.796	(1.077)	181835	4.49900	4.49900
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	9.118	9.118	(1.116)	230011	4.38972	4.38972
74 4-Methyl-2-pentanone	43	9.168	9.161	(1.123)	206291	15.4226	15.4226
76 Toluene	91	9.397	9.397	(1.151)	1294439	6.38226	6.38226(R)
78 trans-1,3-Dichloropropene	75	9.490	9.489	(1.162)	163885	4.25053	4.25053
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	9.661	9.661	(1.183)	85577	4.41942	4.41942
80	2-Hexanone	43	9.768	9.768	(0.933)	130101	17.1225	17.1225
81	1,3-Dichloropropane	76	9.804	9.804	(0.936)	156953	5.04989	5.04989
82	Tetrachloroethene	164	9.826	9.826	(0.939)	243359	7.65512	7.65512(R)
83	Dibromochloromethane	129	10.004	10.004	(0.956)	87288	4.59017	4.59017
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	10.140	10.140	(0.969)	71081	4.83374	4.83374
86	1-Chlorohexane	91	10.362	10.362	(0.990)	297140	4.79922	4.79922
88	Chlorobenzene	112	10.491	10.490	(1.002)	507509	5.40604	5.40604
89	1,1,1,2-Tetrachloroethane	131	10.526	10.526	(1.005)	140929	5.13676	5.13676
90	Ethylbenzene	106	10.526	10.526	(1.005)	320696	5.27998	5.27998
91	m and p-Xylene	106	10.605	10.605	(1.013)	844072	11.3979	11.3979
92	o-Xylene	106	10.941	10.941	(1.045)	378831	5.49140	5.49140
93	Styrene	104	10.941	10.941	(1.045)	521501	5.08754	5.08754
94	Bromoform	173	11.163	11.163	(1.066)	34227	4.44392	4.44392
95	isopropyl benzene	105	11.213	11.213	(0.903)	990494	6.00759	6.00759(R)
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	11.363	11.363	(1.085)	39265	105.771	105.771
99	1,1,2,2-Tetrachloroethane	83	11.427	11.434	(0.920)	80032	5.54294	5.54294
100	t-1,4-Dichloro-2-butene	53	11.463	11.462	(0.923)	94124	23.9179	23.9178
101	1,2,3-Trichloropropane	110	11.513	11.513	(0.927)	21561	5.50101	5.50101
103	Bromobenzene	156	11.563	11.570	(0.931)	156549	5.28708	5.28708
102	n-Propylbenzene	120	11.549	11.556	(0.930)	266161	5.25524	5.25524
105	2-Chlorotoluene	126	11.692	11.692	(0.941)	206300	5.44040	5.44040
104	1,3,5-Trimethylbenzene	105	11.663	11.670	(0.939)	795793	5.57521	5.57521
106	4-Chlorotoluene	126	11.770	11.778	(0.948)	202551	5.38131	5.38131
107	tert-Butylbenzene	119	11.992	11.992	(0.965)	784340	5.33454	5.33454
108	1,2,4-Trimethylbenzene	105	12.021	12.021	(0.968)	817398	5.83380	5.83380
109	sec-Butylbenzene	134	12.185	12.185	(0.981)	208067	5.14519	5.14519
110	4-Isopropyltoluene	119	12.278	12.285	(0.988)	843722	5.22985	5.22985
111	1,3-Dichlorobenzene	146	12.371	12.371	(0.996)	342618	5.35436	5.35436
113	1,4-dichlorobenzene	146	12.443	12.450	(1.002)	328458	5.32800	5.32800
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	12.678	12.686	(1.021)	819509	5.09583	5.09583
116	1,2-Dichlorobenzene	146	12.843	12.843	(1.034)	269081	5.23600	5.23600
117	1,2-Dibromo-3-chloropropane	157	13.665	13.665	(1.100)	9398	4.54195	4.54195
118	1,2,4-Trichlorobenzene	180	14.723	14.723	(1.185)	171895	4.95136	4.95136
119	Hexachlorobutadiene	225	14.881	14.888	(1.198)	120166	4.89867	4.89866
120	Naphthalene	128	15.131	15.138	(1.218)	233712	4.87162	4.87162
121	1,2,3-Trichlorobenzene	180	15.488	15.496	(1.247)	129125	4.78736	4.78736

QC Flag Legend

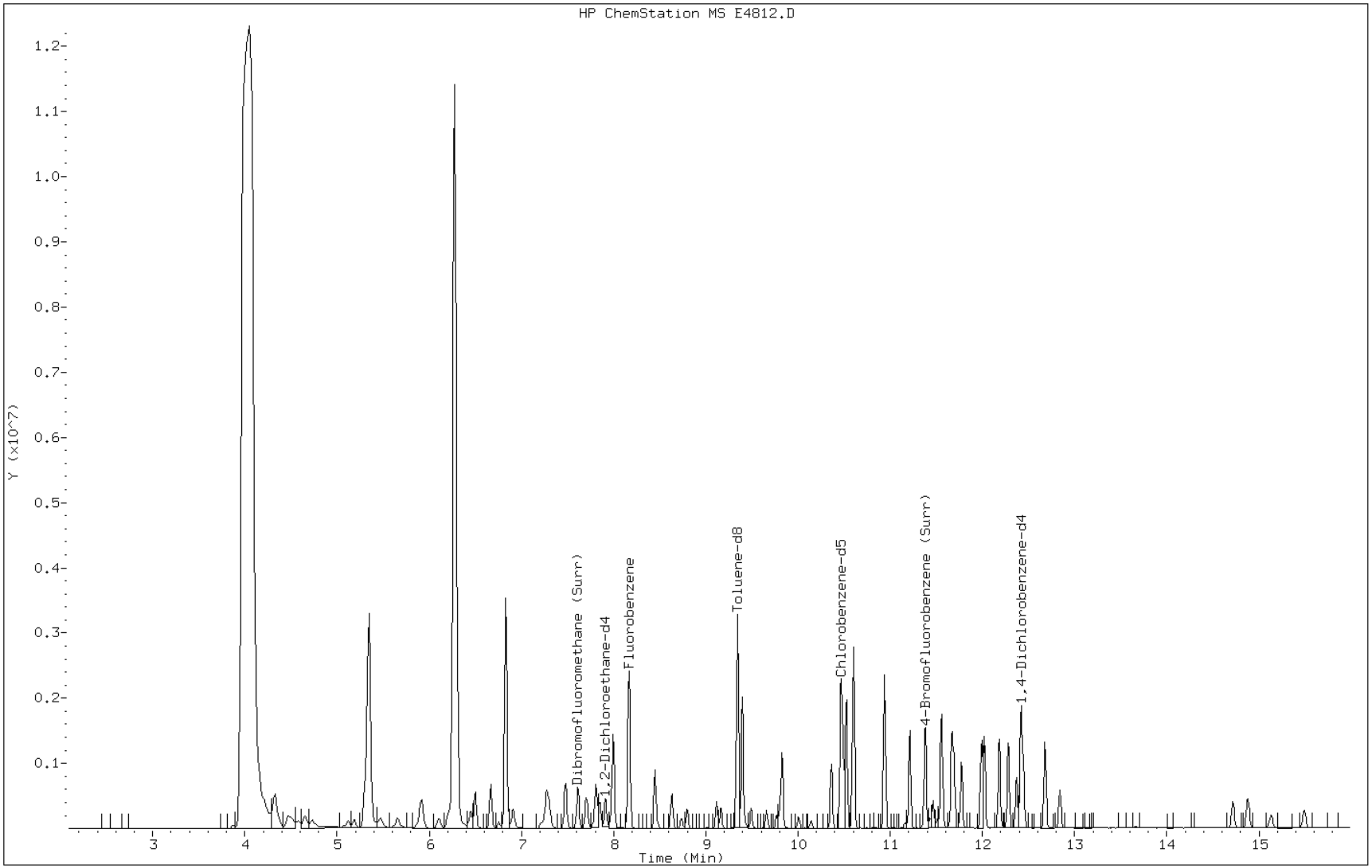
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: E4812.D

Date: 29-NOV-2011 23:57

Client ID: Instrument: E.i

Sample Info: 280-22998-c-2msd,,pH<2 Operator: TINKHAMS



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-23072-A-4 MSD

Matrix: Water Lab File ID: E4883.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2011 00:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98252 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	16.2		10	1.9
71-43-2	Benzene	4.57		1.0	0.16
108-86-1	Bromobenzene	5.28		1.0	0.17
75-27-4	Bromodichloromethane	4.29		1.0	0.17
75-25-2	Bromoform	4.01		1.0	0.19
74-83-9	Bromomethane	3.61		2.0	0.21
78-93-3	2-Butanone (MEK)	18.5		6.0	2.0
56-23-5	Carbon tetrachloride	4.17		1.0	0.19
108-90-7	Chlorobenzene	5.44		1.0	0.17
74-97-5	Bromochloromethane	4.24		1.0	0.10
124-48-1	Dibromochloromethane	4.25		1.0	0.17
75-00-3	Chloroethane	4.13		2.0	0.41
67-66-3	Chloroform	4.71		1.0	0.16
74-87-3	Chloromethane	3.86		2.0	0.30
95-49-8	2-Chlorotoluene	5.39		1.0	0.17
106-43-4	4-Chlorotoluene	5.35		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	8.02		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.05		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.79	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.59		1.0	0.18
74-95-3	Dibromomethane	4.04		1.0	0.17
95-50-1	1,2-Dichlorobenzene	5.26		1.0	0.15
541-73-1	1,3-Dichlorobenzene	5.30		1.0	0.13
106-46-7	1,4-Dichlorobenzene	5.33		1.0	0.16
75-71-8	Dichlorodifluoromethane	3.59		2.0	0.31
75-34-3	1,1-Dichloroethane	4.80		1.0	0.22
107-06-2	1,2-Dichloroethane	4.17		1.0	0.13
75-35-4	1,1-Dichloroethene	4.53		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	12.8		1.0	0.24
78-87-5	1,2-Dichloropropane	4.30		1.0	0.18
142-28-9	1,3-Dichloropropane	4.90		1.0	0.22
594-20-7	2,2-Dichloropropane	4.40		1.0	0.18
563-58-6	1,1-Dichloropropene	4.14		1.0	0.19
100-41-4	Ethylbenzene	5.12		1.0	0.16
87-68-3	Hexachlorobutadiene	4.53		1.0	0.12
591-78-6	2-Hexanone	15.8		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-23072-A-4 MSD

Matrix: Water Lab File ID: E4883.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2011 00:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98252 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	5.93		1.0	0.19
99-87-6	4-Isopropyltoluene	5.08		1.0	0.20
75-09-2	Methylene Chloride	4.90		2.0	0.32
108-10-1	4-Methyl-2-pentanone	14.2		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.13	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	10.2		2.0	0.34
91-20-3	Naphthalene	3.96		1.0	0.22
104-51-8	n-Butylbenzene	4.93		1.0	0.14
103-65-1	n-Propylbenzene	5.29		1.0	0.16
95-47-6	o-Xylene	5.00		1.0	0.19
135-98-8	sec-Butylbenzene	5.11		1.0	0.17
100-42-5	Styrene	4.86		1.0	0.17
98-06-6	tert-Butylbenzene	5.15		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	5.03		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	5.27		1.0	0.21
127-18-4	Tetrachloroethene	5.14		1.0	0.20
108-88-3	Toluene	4.43		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.83		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	3.78		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.25		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.33		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.39		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.17		1.0	0.27
79-01-6	Trichloroethene	5.95		1.0	0.16
75-69-4	Trichlorofluoromethane	3.92		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.53		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	5.23		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	5.32		1.0	0.16
75-01-4	Vinyl chloride	4.09		1.0	0.10
1330-20-7	Xylenes, Total	15.3		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Client Sample ID: Lab Sample ID: 280-23072-A-4 MSD

Matrix: Water Lab File ID: E4883.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/01/2011 00:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 98252 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
1868-53-7	Dibromofluoromethane (Surr)	94		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		70-127
2037-26-5	Toluene-d8 (Surr)	107		80-125

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\E.i\113011pm\E4883.D
Lab Smp Id: 280-23072-a-4msd
Inj Date : 01-DEC-2011 00:25
Operator : TINKHAMS Inst ID: E.i
Smp Info : 280-23072-a-4msd,,pH<2
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\E.i\113011pm\8260B-H2O.m
Meth Date : 30-Nov-2011 19:48 E.i Quant Type: ISTD
Cal Date : 28-NOV-2011 15:06 Cal File: E4617.D
Als bottle: 2 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TALS.sub
Target Version: 4.14
Processing Host: DENPC293

Concentration Formula: Amt * DF * Vp/Vs * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Purge Volume (mL)
Vs	20.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
*	61 Fluorobenzene	96	8.167	8.166	(1.000)	1880951	12.5000		
*	87 Chlorobenzene-d5	119	10.462	10.468	(1.000)	363703	12.5000		
*	112 1,4-Dichlorobenzene-d4	152	12.422	12.420	(1.000)	458240	12.5000		(Q)
$	51 Dibromofluoromethane (Surr)	111	7.609	7.608	(0.932)	380369	12.1896	12.1896	
$	57 1,2-Dichloroethane-d4	65	7.910	7.908	(0.968)	293382	11.5545	11.5545	
$	75 Toluene-d8	98	9.340	9.346	(0.893)	1902907	13.9661	13.9661	
$	98 4-Bromofluorobenzene (Surr)	95	11.378	11.383	(0.916)	531246	13.4398	13.4398	
M	1 1,2-Dichloroethene (total)	96				565784	12.8438	12.8438	(R)
M	2 Xylene (total)	106				1023505	15.2503	15.2502	
	6 dichlorodifluoromethane	85	4.317	4.314	(0.529)	139884	3.58960	3.58960	
	7 1,2-Dichlorotetrafluoroethane	85	Compound Not Detected.						
	8 Chloromethane	50	4.582	4.551	(0.561)	133253	3.85957	3.85957	
	9 Vinyl Chloride	62	4.722	4.705	(0.578)	145433	4.08939	4.08939	
	11 Ethylene Oxide	43	Compound Not Detected.						
	12 Bromomethane	94	5.113	5.096	(0.626)	98336	3.60832	3.60832	
	13 Chloroethane	64	5.169	5.180	(0.633)	125379	4.13092	4.13092	
	14 Dichlorofluoromethane	67	Compound Not Detected.						
	15 Trichlorofluoromethane	101	5.462	5.459	(0.669)	233290	3.92247	3.92247	
	16 Ethanol	45	Compound Not Detected.						
	17 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.						
	18 Ethyl Ether	59	Compound Not Detected.						
	19 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
20 Acrolein	56	Compound Not Detected.					
22 Acetone	43	5.867	5.864	(0.718)	64008	16.2383	16.2383
21 Trichlorotrifluoroethane	151	Compound Not Detected.					
23 2-propanol	45	Compound Not Detected.					
24 1,1-Dichloroethene	96	5.909	5.906	(0.724)	195243	4.52770	4.52770
25 Iodomethane	142	6.094	6.100	(0.746)	233057	4.45116	4.45116
26 Acetonitrile	41	Compound Not Detected.					
27 Methyl Acetate	43	Compound Not Detected.					
29 Carbon Disulfide	76	6.201	6.199	(0.759)	485614	2.82210	2.82210
28 Allyl Chloride	41	Compound Not Detected.					
30 tert-Butyl alcohol	59	6.215	6.214	(0.761)	77878	73.6740	73.6740(Q)
31 Methylene Chloride	84	6.265	6.271	(0.767)	182875	4.90417	4.90416
32 Acrylonitrile	53	Compound Not Detected.					
33 Methyl t-butyl ether	73	6.444	6.450	(0.789)	247318	4.12510	4.12510(a)
34 trans-1,2-Dichloroethene	96	6.494	6.500	(0.795)	213912	4.82826	4.82826
35 Hexane	57	6.659	6.664	(0.636)	237606	3.34123	3.34123
36 Vinyl acetate	43	6.751	6.757	(0.827)	114047	3.52703	3.52703
37 Isopropyl ether	87	Compound Not Detected.					
38 1,1-Dichloroethane	63	6.823	6.829	(0.835)	347371	4.80382	4.80382
39 Chloroprene	53	Compound Not Detected.					
40 ETBE	59	Compound Not Detected.					
42 2-Butanone	43	7.209	7.208	(0.883)	99836	18.5360	18.5360
41 Ethyl Acetate	43	Compound Not Detected.					
45 cis-1,2-Dichloroethene	96	7.266	7.265	(0.890)	351872	8.01552	8.01552(R)
44 Propionitrile	54	Compound Not Detected.					
46 2,2-Dichloropropane	77	7.295	7.294	(0.893)	259901	4.40166	4.40166(a)
47 Methacrylonitrile	41	Compound Not Detected.					
48 Bromochloromethane	128	7.474	7.473	(0.915)	57798	4.23566	4.23566
49 Chloroform	83	7.474	7.480	(0.915)	297666	4.71276	4.71276
50 Tetrahydrofuran	42	7.502	7.508	(0.919)	24385	6.77549	6.77549
53 1,1,1-Trichloroethane	97	7.702	7.701	(0.943)	270465	4.38705	4.38705
52 Isobutanol	41	Compound Not Detected.					
54 Cyclohexane	56	Compound Not Detected.					
55 1,1-Dichloropropene	75	7.810	7.809	(0.956)	268127	4.14056	4.14056
56 Carbon Tetrachloride	117	7.845	7.844	(0.961)	218829	4.16666	4.16666
58 1,2-Dichloroethane	62	7.967	7.973	(0.975)	135865	4.16723	4.16723
60 Benzene	78	7.996	7.994	(0.979)	781417	4.57023	4.57023
59 TAME	73	Compound Not Detected.					
62 n-Butanol	56	Compound Not Detected.					
63 Trichloroethene	95	8.446	8.445	(1.034)	259232	5.95108	5.95108
64 2-Pentanone	43	8.475	8.480	(1.038)	57855	6.78732	6.78732
65 Methyl Methacrylate	100	Compound Not Detected.					
66 1,2-Dichloropropane	63	8.625	8.631	(1.056)	156941	4.30470	4.30470
67 Methyl Cyclohexane	55	Compound Not Detected.					
68 1,4-Dioxane	88	Compound Not Detected.					
69 Dibromomethane	93	8.732	8.731	(1.069)	49092	4.04109	4.04109
70 Bromodichloromethane	83	8.796	8.802	(1.077)	159697	4.28919	4.28919
72 2-nitropropane	41	Compound Not Detected.					
71 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
73 cis-1,3-Dichloropropene	75	9.111	9.117	(1.116)	195728	4.05490	4.05490
74 4-Methyl-2-pentanone	43	9.161	9.167	(1.122)	175501	14.2428	14.2428
76 Toluene	91	9.397	9.396	(1.151)	827132	4.42697	4.42697
78 trans-1,3-Dichloropropene	75	9.490	9.489	(1.162)	134430	3.78477	3.78477
77 Ethyl methacrylate	69	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
79	1,1,2-Trichloroethane	97	9.662	9.660	(1.183)	74397	4.17064	4.17064
80	2-Hexanone	43	9.769	9.768	(0.934)	111342	15.8062	15.8062
81	1,3-Dichloropropane	76	9.797	9.803	(0.936)	141060	4.89549	4.89549
82	Tetrachloroethene	164	9.826	9.825	(0.939)	151542	5.14183	5.14183
83	Dibromochloromethane	129	10.005	10.004	(0.956)	74769	4.25301	4.25301
84	Tetrahydrothiophene	60	Compound Not Detected.					
85	1,2-Dibromoethane	107	10.141	10.140	(0.969)	62511	4.58529	4.58529
86	1-Chlorohexane	91	10.362	10.361	(0.990)	254315	4.43059	4.43059
88	Chlorobenzene	112	10.491	10.490	(1.003)	473770	5.44356	5.44356
89	1,1,1,2-Tetrachloroethane	131	10.527	10.526	(1.006)	127825	5.02556	5.02556
90	Ethylbenzene	106	10.520	10.526	(1.005)	288062	5.11570	5.11570
91	m and p-Xylene	106	10.598	10.604	(1.013)	703599	10.2483	10.2483
92	o-Xylene	106	10.934	10.940	(1.045)	319906	5.00196	5.00196
93	Styrene	104	10.941	10.940	(1.046)	461993	4.86148	4.86148
94	Bromoform	173	11.163	11.162	(1.067)	28635	4.01028	4.01028
95	isopropyl benzene	105	11.213	11.212	(0.903)	907038	5.92931	5.92931
96	cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
97	Cyclohexanone	55	11.363	11.362	(1.086)	31340	91.0629	91.0628
99	1,1,2,2-Tetrachloroethane	83	11.428	11.434	(0.920)	70576	5.26822	5.26822
100	t-1,4-Dichloro-2-butene	53	11.463	11.469	(0.923)	69907	19.1458	19.1458
101	1,2,3-Trichloropropane	110	11.513	11.512	(0.927)	20095	5.52576	5.52576
103	Bromobenzene	156	11.563	11.570	(0.931)	144945	5.27593	5.27592
102	n-Propylbenzene	120	11.549	11.555	(0.930)	248477	5.28767	5.28767
105	2-Chlorotoluene	126	11.692	11.691	(0.941)	189651	5.39035	5.39035
104	1,3,5-Trimethylbenzene	105	11.664	11.670	(0.939)	704420	5.31891	5.31891
106	4-Chlorotoluene	126	11.771	11.777	(0.948)	186990	5.35429	5.35429
107	tert-Butylbenzene	119	11.993	11.991	(0.965)	703033	5.15345	5.15345
108	1,2,4-Trimethylbenzene	105	12.021	12.027	(0.968)	680219	5.23236	5.23236
109	sec-Butylbenzene	134	12.186	12.184	(0.981)	191865	5.11357	5.11357
110	4-Isopropyltoluene	119	12.279	12.285	(0.988)	759771	5.07578	5.07578
111	1,3-Dichlorobenzene	146	12.371	12.370	(0.996)	314680	5.30026	5.30026
113	1,4-dichlorobenzene	146	12.443	12.449	(1.002)	305066	5.33345	5.33345
114	1,2,3-Trimethylbenzene	105	Compound Not Detected.					
115	n-Butylbenzene	91	12.679	12.685	(1.021)	735773	4.93101	4.93101
116	1,2-Dichlorobenzene	146	12.836	12.842	(1.033)	250709	5.25796	5.25796
117	1,2-Dibromo-3-chloropropane	157	13.658	13.672	(1.100)	7272	3.78784	3.78784
118	1,2,4-Trichlorobenzene	180	14.717	14.723	(1.185)	139585	4.33341	4.33341
119	Hexachlorobutadiene	225	14.881	14.887	(1.198)	103195	4.53404	4.53404
120	Naphthalene	128	15.131	15.137	(1.218)	176363	3.96214	3.96214
121	1,2,3-Trichlorobenzene	180	15.489	15.502	(1.247)	106435	4.25305	4.25305

QC Flag Legend

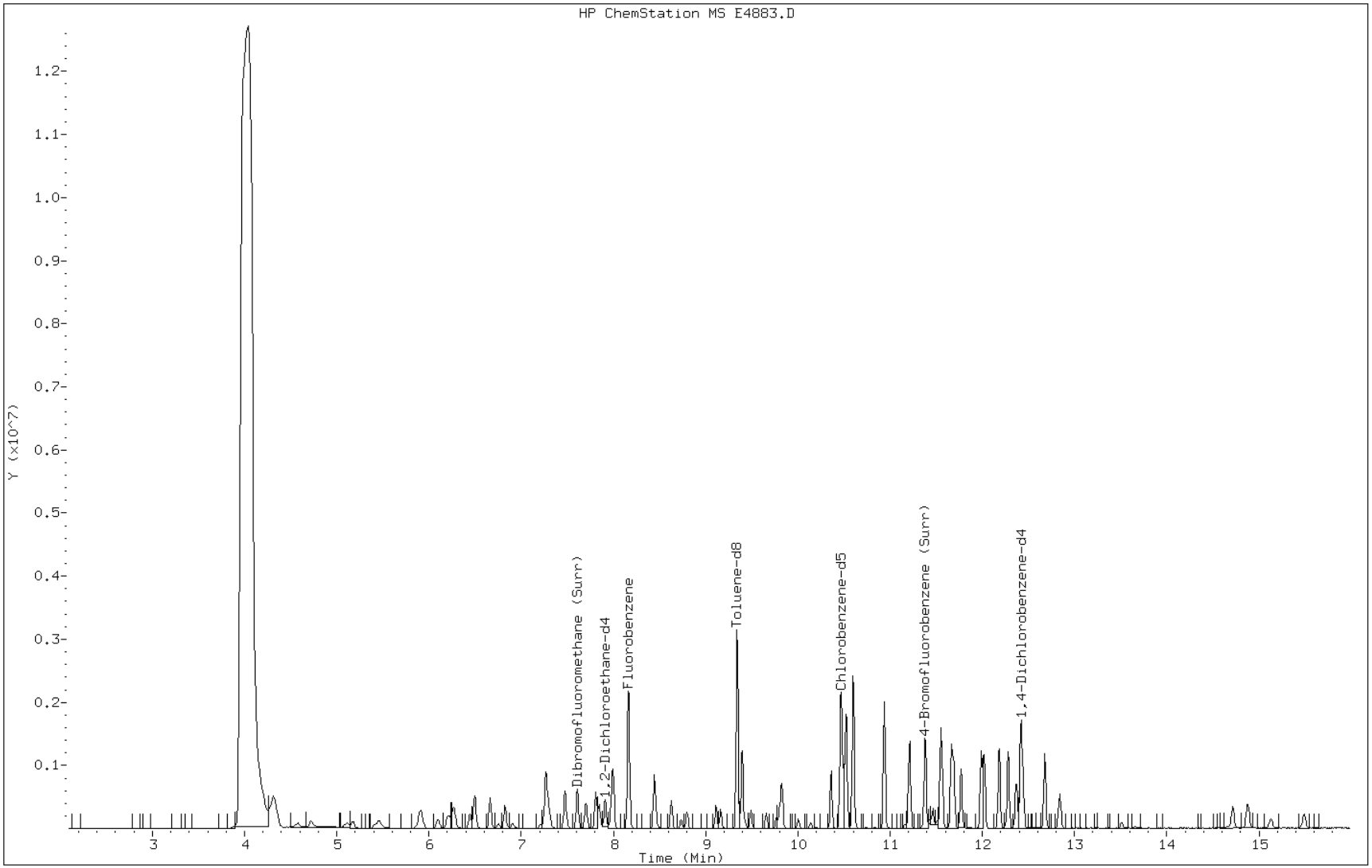
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: E4883.D

Date: 01-DEC-2011 00:25

Client ID: Instrument: E.i

Sample Info: 280-23072-a-4msd,,pH<2 Operator: TINKHAMS



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Instrument ID: MSV_E Start Date: 11/01/2011 17:11

Analysis Batch Number: 94522 End Date: 11/02/2011 02:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-94522/1		11/01/2011 17:11	1	E3670.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/2		11/01/2011 18:52	1	E3675.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/3		11/01/2011 19:11	1	E3676.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/4		11/01/2011 19:31	1	E3677.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/5		11/01/2011 19:50	1	E3678.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/6		11/01/2011 20:10	1	E3679.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/7		11/01/2011 20:30	1	E3680.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/8		11/01/2011 20:49	1	E3681.D	DB-624 (75.53) 0.53(mm)
ICV 280-94522/9		11/01/2011 21:09	1	E3682.D	DB-624 (75.53) 0.53(mm)
ICV 280-94522/10		11/01/2011 21:28	1	E3683.D	DB-624 (75.53) 0.53(mm)
ICV 280-94522/11		11/01/2011 21:48	1	E3684.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/14		11/02/2011 00:34	1	E3692.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/15		11/02/2011 00:54	1	E3693.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/16		11/02/2011 01:13	1	E3694.D	DB-624 (75.53) 0.53(mm)
ICIS 280-94522/17		11/02/2011 01:32	1	E3695.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/18		11/02/2011 01:52	1	E3696.D	DB-624 (75.53) 0.53(mm)
IC 280-94522/19		11/02/2011 02:11	1	E3697.D	DB-624 (75.53) 0.53(mm)
ICV 280-94522/20		11/02/2011 02:30	1	E3698.D	DB-624 (75.53) 0.53(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Instrument ID: MSV_E Start Date: 11/28/2011 10:09

Analysis Batch Number: 97801 End Date: 11/28/2011 21:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-97801/1		11/28/2011 10:09	1	E4601.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/2		11/28/2011 10:19	1	E4602.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/3		11/28/2011 10:38	1	E4603.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/4		11/28/2011 10:57	1	E4604.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/5		11/28/2011 11:16	1	E4605.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/6		11/28/2011 11:35	1	E4606.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/7		11/28/2011 11:55	1	E4607.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/8		11/28/2011 12:14	1	E4608.D	DB-624 (75.53) 0.53(mm)
ICV 280-97801/9		11/28/2011 12:33	1	E4609.D	DB-624 (75.53) 0.53(mm)
ICV 280-97801/10		11/28/2011 12:52	1	E4610.D	DB-624 (75.53) 0.53(mm)
ICV 280-97801/11		11/28/2011 13:11	1	E4611.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/12		11/28/2011 13:31	1	E4612.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/13		11/28/2011 13:50	1	E4613.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/14		11/28/2011 14:09	1	E4614.D	DB-624 (75.53) 0.53(mm)
ICIS 280-97801/15		11/28/2011 14:28	1	E4615.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/16		11/28/2011 14:47	1	E4616.D	DB-624 (75.53) 0.53(mm)
IC 280-97801/17		11/28/2011 15:06	1	E4617.D	DB-624 (75.53) 0.53(mm)
ICV 280-97801/18		11/28/2011 15:25	1	E4618.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 15:44	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 16:04	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 16:23	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 16:42	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 17:01	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 17:20	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 17:39	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 17:58	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 18:18	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 18:37	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 18:56	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 19:15	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 19:34	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 19:53	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 20:12	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 20:31	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 20:50	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 21:10	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/28/2011 21:29	1		DB-624 (75.53) 0.53(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Instrument ID: MSV_E Start Date: 11/29/2011 20:26

Analysis Batch Number: 98185 End Date: 11/30/2011 05:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-98185/1		11/29/2011 20:26	1	E4802.D	DB-624 (75.53) 0.53(mm)
CCV 280-98185/2		11/29/2011 20:56	1	E4803.D	DB-624 (75.53) 0.53(mm)
CCV 280-98185/3		11/29/2011 21:16	1	E4804.D	DB-624 (75.53) 0.53(mm)
LCS 280-98185/4		11/29/2011 21:35	1	E4805.D	DB-624 (75.53) 0.53(mm)
MB 280-98185/5		11/29/2011 21:59	1	E4806.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		11/29/2011 22:22	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/29/2011 23:19	1		DB-624 (75.53) 0.53(mm)
280-22998-C-2 MS		11/29/2011 23:38	1	E4811.D	DB-624 (75.53) 0.53(mm)
280-22998-C-2 MSD		11/29/2011 23:57	1	E4812.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 00:16	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 00:36	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 00:55	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 01:14	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 01:33	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 01:52	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 02:11	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 02:30	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 02:49	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 03:09	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 03:28	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 03:47	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 04:06	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 04:25	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 04:44	1		DB-624 (75.53) 0.53(mm)
280-23016-1	MW-14-111611	11/30/2011 05:03	1	E4828.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 05:41	1		DB-624 (75.53) 0.53(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Instrument ID: MSV_E Start Date: 11/30/2011 18:27

Analysis Batch Number: 98252 End Date: 12/01/2011 04:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-98252/1		11/30/2011 18:27	1	E4865.D	DB-624 (75.53) 0.53(mm)
CCV 280-98252/2		11/30/2011 18:58	1	E4866.D	DB-624 (75.53) 0.53(mm)
CCV 280-98252/3		11/30/2011 19:17	1	E4867.D	DB-624 (75.53) 0.53(mm)
LCS 280-98252/4		11/30/2011 19:38	1	E4868.D	DB-624 (75.53) 0.53(mm)
MB 280-98252/5		11/30/2011 19:57	1	E4869.D	DB-624 (75.53) 0.53(mm)
LCSD 280-98252/6		11/30/2011 20:16	1	E4870.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 20:54	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 21:13	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 21:33	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 21:52	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 22:11	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 22:30	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 22:49	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 23:08	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 23:27	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		11/30/2011 23:47	1		DB-624 (75.53) 0.53(mm)
280-23072-A-4 MS		12/01/2011 00:06	1	E4882.D	DB-624 (75.53) 0.53(mm)
280-23072-A-4 MSD		12/01/2011 00:25	1	E4883.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		12/01/2011 01:05	1		DB-624 (75.53) 0.53(mm)
280-23016-3	MW-3-111711	12/01/2011 01:24	1	E4886.D	DB-624 (75.53) 0.53(mm)
280-23016-4	MW-15-111711	12/01/2011 01:44	1	E4887.D	DB-624 (75.53) 0.53(mm)
280-23016-5	MW-5-111711	12/01/2011 02:03	1	E4888.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		12/01/2011 02:22	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/01/2011 02:41	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/01/2011 03:00	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/01/2011 03:19	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/01/2011 03:38	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/01/2011 04:17	1		DB-624 (75.53) 0.53(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Instrument ID: MSV_MS1 Start Date: 11/01/2011 16:30

Analysis Batch Number: 94480 End Date: 11/02/2011 01:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-94480/1		11/01/2011 16:30	1	ms1774.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/2		11/01/2011 17:19	1	ms1776.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/3		11/01/2011 17:39	1	ms1777.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/4		11/01/2011 17:59	1	ms1778.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/5		11/01/2011 18:19	1	ms1779.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/6		11/01/2011 18:39	1	ms1780.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/7		11/01/2011 18:59	1	ms1781.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/8		11/01/2011 19:19	1	ms1782.D	DB-624 (60.25) 0.25(mm)
ICV 280-94480/9		11/01/2011 19:59	1	ms1784.D	DB-624 (60.25) 0.25(mm)
ICV 280-94480/10		11/01/2011 20:19	1	ms1785.D	DB-624 (60.25) 0.25(mm)
ICV 280-94480/11		11/01/2011 20:39	1		DB-624 (60.25) 0.25(mm)
IC 280-94480/12		11/01/2011 21:00	1	ms1787.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/13		11/01/2011 21:20	1	ms1788.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/14		11/01/2011 21:40	1	ms1789.D	DB-624 (60.25) 0.25(mm)
ICIS 280-94480/15		11/01/2011 22:00	1	ms1790.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/16		11/01/2011 22:20	1	ms1791.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/17		11/01/2011 22:40	1	ms1792.D	DB-624 (60.25) 0.25(mm)
ICV 280-94480/18		11/01/2011 23:20	1	ms1794.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/25		11/01/2011 23:40	1	ms1795.D	DB-624 (60.25) 0.25(mm)
IC 280-94480/19		11/02/2011 00:00	1		DB-624 (60.25) 0.25(mm)
IC 280-94480/20		11/02/2011 00:21	1		DB-624 (60.25) 0.25(mm)
IC 280-94480/21		11/02/2011 00:41	1		DB-624 (60.25) 0.25(mm)
IC 280-94480/22		11/02/2011 01:01	1		DB-624 (60.25) 0.25(mm)
IC 280-94480/23		11/02/2011 01:21	1		DB-624 (60.25) 0.25(mm)
IC 280-94480/24		11/02/2011 01:41	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Instrument ID: MSV_MS1 Start Date: 11/02/2011 07:52

Analysis Batch Number: 94525 End Date: 11/02/2011 19:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-94525/1		11/02/2011 07:52	1	ms1805.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 08:06	1		DB-624 (60.25) 0.25(mm)
ICV 280-94525/3		11/02/2011 08:26	1	ms1807.D	DB-624 (60.25) 0.25(mm)
CCV 280-94525/4		11/02/2011 08:46	1		DB-624 (60.25) 0.25(mm)
CCV 280-94525/5		11/02/2011 09:06	1		DB-624 (60.25) 0.25(mm)
CCV 280-94525/6		11/02/2011 09:26	1		DB-624 (60.25) 0.25(mm)
ICV 280-94525/7		11/02/2011 09:46	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 10:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 10:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 11:27	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 12:07	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 12:27	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 12:47	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 13:07	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 13:27	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 13:47	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 14:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 14:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 14:46	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 15:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 15:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 15:46	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 16:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 16:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 16:46	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 17:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 17:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 17:46	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 18:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 18:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 18:46	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 19:06	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 19:26	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/02/2011 19:46	1		DB-624 (60.25) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-23016-1

SDG No.:

Instrument ID: MSV_MS1 Start Date: 11/28/2011 17:20

Analysis Batch Number: 97860 End Date: 11/29/2011 02:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-97860/1		11/28/2011 17:20	1	ms2833.D	DB-624 (60.25) 0.25(mm)
CCV 280-97860/2		11/28/2011 17:42	1	ms2834.D	DB-624 (60.25) 0.25(mm)
CCV 280-97860/3		11/28/2011 18:02	1	ms2835.D	DB-624 (60.25) 0.25(mm)
LCS 280-97860/4		11/28/2011 18:22	1	ms2836.D	DB-624 (60.25) 0.25(mm)
MB 280-97860/5		11/28/2011 18:42	1	ms2837.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 19:12	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 19:32	1		DB-624 (60.25) 0.25(mm)
280-23016-6	TRIP BLANK	11/28/2011 19:52	1	ms2840.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 20:13	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 20:33	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 20:53	1		DB-624 (60.25) 0.25(mm)
280-22946-B-1 MS		11/28/2011 21:13	1	ms2844.D	DB-624 (60.25) 0.25(mm)
280-22946-B-1 MSD		11/28/2011 21:33	1	ms2845.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 21:53	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 22:13	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 22:32	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 22:52	1		DB-624 (60.25) 0.25(mm)
280-23016-2	MW-7-111611	11/28/2011 23:12	1	ms2850.D	DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 23:32	2		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/28/2011 23:52	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/29/2011 00:12	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/29/2011 00:32	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/29/2011 00:52	10		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/29/2011 01:12	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/29/2011 01:31	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/29/2011 01:51	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/29/2011 02:11	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/29/2011 02:31	1		DB-624 (60.25) 0.25(mm)
ZZZZZ		11/29/2011 02:51	1		DB-624 (60.25) 0.25(mm)

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 280-23016-1

Login Number: 23016

List Source: TestAmerica Denver

List Number: 1

Creator: Bindel, Aaron M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

AECOM Environment

Submitted to:
Maverik Kirtland

Submitted by:
AECOM
Fort Collins, CO
60139478.210
January 5, 2012

Organic Data Validation Report

Maverik Country Stores, Inc Kirtland, NM
Groundwater Samples
TestAmerica of Arvada, CO Laboratory Data
November 2011 Sampling

Prepared By Ann Biegelsen
Environmental Quality Assurance Chemist

Overview

The samples analyzed for the Maverik Country Stores, Inc. Kirtland, NM Groundwater sampling event from November 2011 are listed in the Table of Samples Analyzed (page 2). Data validation was performed on fifteen groundwater samples and two trip blank samples.

The samples were analyzed by TestAmerica of Arvada, CO. The validated analyses were: Volatile Organic Compounds (VOCs) by SW846 method 8260B.

The Analytical Data Validation Checklist is presented as pages 6-12. Data were evaluated based on validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-08-01, June 2008 with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008 of October 1999, as they applied to the reported methodology. Field duplicate RPD control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

The following data components were reviewed during the data validation procedure:

Submitted Deliverables
Case Narratives
Chain-of-Custody form(s) and sample integrity
Sample results, reporting detection limits, method detection limits, dilution factors
Holding times
Method blank results
LCS/LCSD (blank spike) results
MS/MSD (matrix spike) results
Instrument tunes (system performance checks)
Instrument calibrations
Laboratory duplicate results
Organic surrogate recoveries
GC/MS Internal standards
Blind field duplicate results
Electronic data deliverables (EDDs)

Data Validation Qualifiers Assigned During this Review

J detected result, estimated concentration

UJ undetected result, reporting limit is estimated

U result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

Assigned qualifiers are detailed in the Analytical Data Validation Checklist and are summarized in the Table of Qualified Analytical Results (pages 3-6).

Overall Data Assessment

Precision, accuracy, method compliance, and completeness of the data set have been determined to be acceptable, based on the data submitted. The data are suitable for their intended use.

Table of Samples Analyzed
Maverik Country Stores, Inc. Kirtland, NM - Groundwater Samples
TestAmerica of Arvada, CO Laboratory SDGs 280-23016-1 and 280-23017-1
November 2011 Sampling

Matrix	Sample ID	Parent Sample ID	Sample Date and Time		Lab SDG	Lab Sample ID	COC Reference
Groundwater	MW-14-111611		11/16/2011	14:45	280230161	280-23016-1	144053
Groundwater	MW-15-111711		11/17/2011	09:45	280230161	280-23016-4	144053
Groundwater	MW-3-111711		11/17/2011	09:00	280230161	280-23016-3	144053
Groundwater	MW-5-111711		11/17/2011	10:45	280230161	280-23016-5	144053
Groundwater	MW-7-111611		11/16/2011	15:50	280230161	280-23016-2	144053
Water QC	TB-111711		11/17/2011	09:00	280230161	280-23016-6	144053
Groundwater	MW-10-111611		11/16/2011	11:50	280230171	280-23017-5	144052
Groundwater	MW-16-111611		11/16/2011	14:15	280230171	280-23017-8	144052
Groundwater	MW-17-111611		11/16/2011	10:40	280230171	280-23017-3	144052
Groundwater	MW-18-111611		11/16/2011	08:30	280230171	280-23017-1	144052
Groundwater	MW-19-111611		11/16/2011	11:30	280230171	280-23017-4	144052
Groundwater	MW-20-111611		11/16/2011	13:45	280230171	280-23017-7	144052
Groundwater	MW-21-111611		11/16/2011	13:20	280230171	280-23017-6	144052
Groundwater	MW-22-111611		11/16/2011	09:50	280230171	280-23017-2	144052
Groundwater	MW-9-111611		11/16/2011	15:20	280230171	280-23017-9	144052
Groundwater	MW-DUP-111611	MW-22-111611	11/16/2011	16:00	280230171	280-23017-10	144052
Water QC	TB-111611		11/16/2011	08:30	280230171	280-23017-11	144052

Table of Qualified Analytical Results
Maverik Country Stores, Inc. Kirtland, NM - Groundwater Samples
TestAmerica of Arvada, CO Laboratory SDGs 280-23016-1 and 280-23017-1
November 2011 Sampling

Lab SDG	Sample ID	Method	Analyte	Concentration	Qualifier	Reason Code
280230161	MW-14-111611	SW8260B	1,1,1,2-Tetrachloroethane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,1,1-Trichloroethane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,1,2,2-Tetrachloroethane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,1,2-Trichloroethane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,1-Dichloroethane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,1-Dichloroethene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,1-Dichloropropene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,2,3-Trichlorobenzene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,2,3-Trichloropropane	< 2.5 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,2,4-Trichlorobenzene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,2,4-Trimethylbenzene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,2-Dibromo-3-Chloropropane	< 5.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,2-Dibromoethane (EDB)	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,2-Dichlorobenzene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,2-Dichloroethane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,2-Dichloroethene, Total	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,2-Dichloropropane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,3,5-Trimethylbenzene	< 1.0 ug/l	UJ	HT, CCAL
280230161	MW-14-111611	SW8260B	1,3-Dichlorobenzene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,3-Dichloropropane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	1,4-Dichlorobenzene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	2,2-Dichloropropane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	2-Butanone (MEK)	< 6.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	2-Chlorotoluene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	2-Hexanone	< 5.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	4-Chlorotoluene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	4-Isopropyltoluene	< 1.0 ug/l	UJ	HT, CCAL
280230161	MW-14-111611	SW8260B	4-Methyl-2-pentanone	< 5.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Acetone	< 10 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Benzene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Bromobenzene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Bromochloromethane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Bromodichloromethane	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Bromoform	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Bromomethane	< 2.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Carbon tetrachloride	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Chlorobenzene	< 1.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Chloroethane	< 2.0 ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Chloroform	< 1.0 ug/l	UJ	HT

Continued on following page

Table of Qualified Analytical Results (Continued)
Maverik Country Stores, Inc. Kirtland, NM - Groundwater Samples
TestAmerica of Arvada, CO Laboratory SDGs 280-23016-1 and 280-23017-1
November 2011 Sampling

Lab SDG	Sample ID	Method	Analyte	Concentration			Qualifier	Reason Code
280230161	MW-14-111611	SW8260B	Chloromethane	<	2.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	cis-1,2-Dichloroethene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	cis-1,3-Dichloropropene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Dibromochloromethane	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Dibromomethane	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Dichlorodifluoromethane	<	2.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Ethylbenzene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Hexachlorobutadiene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Isopropylbenzene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Methyl tert-butyl ether	<	5.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Methylene Chloride	<	2.0	ug/l	U	MB, HT, BRL, original result was 0.62 ug/L
280230161	MW-14-111611	SW8260B	m-Xylene & p-Xylene	<	2.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Naphthalene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	n-Butylbenzene	<	1.0	ug/l	UJ	HT, CCAL
280230161	MW-14-111611	SW8260B	n-Propylbenzene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	o-Xylene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	sec-Butylbenzene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Styrene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	tert-Butylbenzene	<	1.0	ug/l	UJ	HT, CCAL
280230161	MW-14-111611	SW8260B	Tetrachloroethene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Toluene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	trans-1,2-Dichloroethene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	trans-1,3-Dichloropropene	<	3.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Trichloroethene	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Trichlorofluoromethane	<	2.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Vinyl chloride	<	1.0	ug/l	UJ	HT
280230161	MW-14-111611	SW8260B	Xylenes, Total	<	2.0	ug/l	UJ	HT
280230161	MW-15-111711	SW8260B	1,4-Dichlorobenzene		0.25	ug/l	J	BRL
280230161	MW-15-111711	SW8260B	Acetone	<	10	ug/l	U	TB, BRL, original result was 6.4 ug/L
280230161	MW-15-111711	SW8260B	Chloroform		0.27	ug/l	J	BRL
280230161	MW-15-111711	SW8260B	Methylene Chloride	<	2.0	ug/l	U	MB, BRL, original result was 0.60 ug/L
280230161	MW-3-111711	SW8260B	Methylene Chloride	<	2.0	ug/l	U	MB, BRL, original result was 0.58 ug/L
280230161	MW-5-111711	SW8260B	Methylene Chloride	<	2.0	ug/l	U	MB, BRL, original result was 0.49 ug/L
280230161	MW-7-111611	SW8260B	Acetone	<	10	ug/l	U	TB, BRL, original result was 3.0 ug/L
280230161	MW-7-111611	SW8260B	Naphthalene	<	1.0	ug/l	UJ	CCAL
280230161	TB-111711	SW8260B	Acetone		3.7	ug/l	J	BRL
280230161	TB-111711	SW8260B	Naphthalene	<	1.0	ug/l	UJ	CCAL
280230171	MW-10-111611	SW8260B	1,3,5-Trimethylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-10-111611	SW8260B	4-Isopropyltoluene	<	1.0	ug/l	UJ	CCAL
280230171	MW-10-111611	SW8260B	Methylene Chloride	<	2.0	ug/l	U	MB, BRL, original result was 0.56 ug/L
280230171	MW-10-111611	SW8260B	n-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-10-111611	SW8260B	tert-Butylbenzene	<	1.0	ug/l	UJ	CCAL

Continued on following page

Table of Qualified Analytical Results (Continued)
Maverik Country Stores, Inc. Kirtland, NM - Groundwater Samples
TestAmerica of Arvada, CO Laboratory SDGs 280-23016-1 and 280-23017-1
November 2011 Sampling

Lab SDG	Sample ID	Method	Analyte	Concentration			Qualifier	Reason Code
280230171	MW-16-111611	SW8260B	1,3,5-Trimethylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-16-111611	SW8260B	4-Isopropyltoluene	<	1.0	ug/l	UJ	CCAL
280230171	MW-16-111611	SW8260B	Methylene Chloride	<	2.0	ug/l	U	MB, BRL, original result was 0.57 ug/L
280230171	MW-16-111611	SW8260B	n-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-16-111611	SW8260B	tert-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-17-111611	SW8260B	1,3,5-Trimethylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-17-111611	SW8260B	4-Isopropyltoluene		0.48	ug/l	J	BRL, CCAL
280230171	MW-17-111611	SW8260B	Isopropylbenzene		0.44	ug/l	J	BRL, LCS
280230171	MW-17-111611	SW8260B	Naphthalene		0.60	ug/l	J	BRL
280230171	MW-17-111611	SW8260B	n-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-17-111611	SW8260B	n-Propylbenzene		0.39	ug/l	J	BRL
280230171	MW-17-111611	SW8260B	sec-Butylbenzene		0.70	ug/l	J	BRL
280230171	MW-17-111611	SW8260B	tert-Butylbenzene		0.20	ug/l	J	BRL, CCAL
280230171	MW-17-111611	SW8260B	Toluene		0.42	ug/l	J	BRL
280230171	MW-18-111611	SW8260B	1,2,4-Trimethylbenzene		0.34	ug/l	J	BRL
280230171	MW-18-111611	SW8260B	1,3,5-Trimethylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-18-111611	SW8260B	4-Isopropyltoluene	<	1.0	ug/l	UJ	CCAL
280230171	MW-18-111611	SW8260B	Isopropylbenzene		0.28	ug/l	J	BRL, LCS
280230171	MW-18-111611	SW8260B	n-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-18-111611	SW8260B	n-Propylbenzene		0.19	ug/l	J	BRL
280230171	MW-18-111611	SW8260B	sec-Butylbenzene		0.47	ug/l	J	BRL
280230171	MW-18-111611	SW8260B	tert-Butylbenzene		0.97	ug/l	J	BRL, CCAL
280230171	MW-19-111611	SW8260B	1,3,5-Trimethylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-19-111611	SW8260B	4-Isopropyltoluene	<	1.0	ug/l	UJ	CCAL
280230171	MW-19-111611	SW8260B	Methylene Chloride	<	2.0	ug/l	U	MB, BRL, original result was 0.56 ug/L
280230171	MW-19-111611	SW8260B	n-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-19-111611	SW8260B	tert-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-20-111611	SW8260B	1,3,5-Trimethylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-20-111611	SW8260B	4-Isopropyltoluene	<	1.0	ug/l	UJ	CCAL
280230171	MW-20-111611	SW8260B	Methylene Chloride	<	2.0	ug/l	U	MB, BRL, original result was 0.55 ug/L
280230171	MW-20-111611	SW8260B	n-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-20-111611	SW8260B	tert-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-21-111611	SW8260B	1,3,5-Trimethylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-21-111611	SW8260B	4-Isopropyltoluene	<	1.0	ug/l	UJ	CCAL
280230171	MW-21-111611	SW8260B	Methylene Chloride	<	2.0	ug/l	U	MB, BRL, original result was 0.55 ug/L
280230171	MW-21-111611	SW8260B	n-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-21-111611	SW8260B	tert-Butylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-22-111611	SW8260B	1,3,5-Trimethylbenzene	<	1.0	ug/l	UJ	CCAL
280230171	MW-22-111611	SW8260B	4-Isopropyltoluene	<	1.0	ug/l	UJ	CCAL
280230171	MW-22-111611	SW8260B	Benzene		5.9	ug/l	J	FD
280230171	MW-22-111611	SW8260B	Ethylbenzene		3.1	ug/l	J	FD

Continued on following page

Table of Qualified Analytical Results (Continued)
Maverik Country Stores, Inc. Kirtland, NM - Groundwater Samples
TestAmerica of Arvada, CO Laboratory SDGs 280-23016-1 and 280-23017-1
November 2011 Sampling

Lab SDG	Sample ID	Method	Analyte	Concentration	Qualifier	Reason Code
280230171	MW-22-111611	SW8260B	Isopropylbenzene	0.92 ug/l	J	BRL, LCS
280230171	MW-22-111611	SW8260B	n-Butylbenzene	< 1.0 ug/l	UJ	CCAL
280230171	MW-22-111611	SW8260B	tert-Butylbenzene	< 1.0 ug/l	UJ	CCAL
280230171	MW-9-111611	SW8260B	1,3,5-Trimethylbenzene	< 1.0 ug/l	UJ	CCAL
280230171	MW-9-111611	SW8260B	4-Isopropyltoluene	< 1.0 ug/l	UJ	CCAL
280230171	MW-9-111611	SW8260B	Methylene Chloride	< 2.0 ug/l	U	MB, BRL, original result was 0.52 ug/L
280230171	MW-9-111611	SW8260B	n-Butylbenzene	< 1.0 ug/l	UJ	CCAL
280230171	MW-9-111611	SW8260B	tert-Butylbenzene	< 1.0 ug/l	UJ	CCAL
280230171	MW-DUP-111611	SW8260B	1,2,4-Trimethylbenzene	0.71 ug/l	J	BRL
280230171	MW-DUP-111611	SW8260B	1,3,5-Trimethylbenzene	< 1.0 ug/l	UJ	CCAL
280230171	MW-DUP-111611	SW8260B	4-Isopropyltoluene	< 1.0 ug/l	UJ	CCAL
280230171	MW-DUP-111611	SW8260B	Benzene	4.3 ug/l	J	FD
280230171	MW-DUP-111611	SW8260B	Ethylbenzene	2.1 ug/l	J	FD
280230171	MW-DUP-111611	SW8260B	Isopropylbenzene	0.62 ug/l	J	BRL, LCS
280230171	MW-DUP-111611	SW8260B	n-Butylbenzene	< 1.0 ug/l	UJ	CCAL
280230171	MW-DUP-111611	SW8260B	tert-Butylbenzene	< 1.0 ug/l	UJ	CCAL
280230171	TB-111611	SW8260B	1,3,5-Trimethylbenzene	< 1.0 ug/l	UJ	CCAL
280230171	TB-111611	SW8260B	4-Isopropyltoluene	< 1.0 ug/l	UJ	CCAL
280230171	TB-111611	SW8260B	Acetone	3.2 ug/l	J	BRL
280230171	TB-111611	SW8260B	Methylene Chloride	< 2.0 ug/l	U	MB, BRL, original result was 0.55 ug/L
280230171	TB-111611	SW8260B	n-Butylbenzene	< 1.0 ug/l	UJ	CCAL
280230171	TB-111611	SW8260B	tert-Butylbenzene	< 1.0 ug/l	UJ	CCAL

Continued on following page

Qualifier Definitions
J – Estimated concentration
U – Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive
UJ – Undetected result, reporting limit is estimated

Reason Code Definitions
BRL – Reported concentration is greater than the method detection limit (MDL) but less than the reporting limit (RL).
CCAL – Continuing calibration verification outside limits.
FD – Field duplicate RPD outside limits.
HT – Holding time exceeded.
LCS – Laboratory control spike recovery is outside quality control limits.
MB – Method blank contamination.
TB – Trip blank contamination.

Project Name: Maverik Country Stores				Laboratory: TestAmerica of Arvada, CO		
Project Reference: Kirtland, NM				Sample Matrix: Groundwater with Water QC		
AECOM Project No.: 60139478.210				Sample Start Date: 11/16/2011		
Validated By/Date Validated: Ann Biegelsen / 01/05/2012				Sample End Date: 11/17/2011		
Samples Analyzed: Refer to the Table of Samples Analyzed (page 2).						
Parameters Validated: Volatile Organic Compounds (VOCs) by SW846 method 8260B.						
Laboratory Sample Delivery Group (SDG) IDs: 280-23016-1 and 280-23017-1						
PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT						
Precision:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Precision is the measure of variability of individual sample measurements. Field precision was determined by comparison of field duplicate sample results. Laboratory precision was determined by examination of laboratory duplicate results. Evaluation of both field and laboratory duplicates for precision was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate samples divided by the mean and expressed as a percent. Field duplicate RPD QC limits were set at 0-30% for water samples. Laboratory RPD limits referenced EPA published QC limits. Although some data require qualification based on field duplicate RPDs (see item 21), overall field and laboratory precision is acceptable. Precision measurements are reviewed in items 17, 20, and 21.						
Accuracy:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Field accuracy, a measure of the sampling bias, was determined by reviewing trip blank results for evidence of sample contamination stemming from sample transport. Laboratory accuracy is a measure of the system bias, and was measured by evaluating laboratory control sample/laboratory control sample duplicate (LCS/LCSD), matrix spike/matrix spike duplicate (MS/MSD), and organic system monitoring compounds (surrogate) percent recoveries (%Rs). LCS/LCSD %Rs, which demonstrated the overall performance of the analysis, were compared to EPA published QC limits. MS/MSD %Rs, which provided information on sample matrix interferences, were compared to EPA published QC limits or laboratory control charted limits. System monitoring compound or surrogate recoveries, which measured system performance and efficiency during organic analysis, were compared to EPA published QC limits or laboratory control charted limits. Although some data require qualification based on trip blank contamination (see item 12) or LCS %R outliers (see item 15), overall field and laboratory accuracy is acceptable. Accuracy measurements are reviewed in items 12, 14, 15 and 16.						
Method Compliance:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Method compliance was determined by evaluating sample integrity, holding time, system performance checks, initial and continuing instrument calibrations, laboratory blanks, internal standards, and target analyte identification against method specified requirements, while applying EPA data validation guidelines. Although some data require qualification based on analytes detected with concentrations less than the reporting limits but greater than the method detection limits (see item 6), missed holding times (see item 8), laboratory method blank contamination (see item 11), or instrument calibration outliers (see item 13), overall method compliance is acceptable based on the supplied data. Method compliance measurements are reviewed in items 4, 6, 8, 11, 13, 18, 19, 20 and 22.						
Completeness:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with validated analyses. Completeness goals are set at 90-100%. Determination of completeness included a review of chain of custody records, laboratory analytical methods and detection limits, laboratory case narratives, and project requirements. Completeness also included 100% review of the laboratory sample data results, QC summary reports, and electronic data deliverables (EDDs). All of the data received from the laboratory are useable with qualification. Completeness of the data is calculated to be 100% and is acceptable.						

VALIDATION CRITERIA CHECK

Data validation qualifiers used in this review:

J – detected result, estimated concentration

UJ – undetected result, reporting limit is estimated

U – result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

The following comments requiring qualification are in bold type. The other comments are of interest, but qualification of the sample data was not necessary.

Refer to the Table of Qualified Analytical Results (pages 3-6) for a listing of the samples, analytes, and concentrations qualified.

1. Did the laboratory identify any non-conformances related to the analytical results?	**X**	Yes		No	AB	Initials

Explanation by laboratory:

General Comments: Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receipt: SDG 280-23016-1: Samples MW-12-111611, MW-3-111711, MW-15-111711 and MW-5-111711 were placed on hold pending per the Chain of custody. On 11/21/2011, the client instructed the laboratory to analyze with the requested 8260B VOC analyses.

Method 8260B: SDG 280-23016-1: Sample MW-14-111611 was received with insufficient preservation. The vial was labeled as being preserved with hydrochloric acid however, the pH was approximately 7. All vials were of the same result.

Methylene Chloride, a common laboratory contaminant, was detected in the method blanks associated with batches 280-97860, 280-98185 and 280-98252 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated samples reported a result above the MDL and/or RL, the result has been “B” flagged.

The LCS associated with batch 280-98185 failed the recovery criteria high for Isopropylbenzene, and the associated sample results have been flagged “*”. As no detectable concentrations of Isopropylbenzene are present in the associated samples, data are reported as is.

The LCSD associated with batch 280-98252 failed the recovery criteria high for Isopropylbenzene, and the associated sample results have been flagged “*”. As no detectable concentrations of Isopropylbenzene are present in the associated samples, data are reported as is.

SDG 280-23017-1: Methylene Chloride, a common laboratory contaminant, was detected in the method blank associated with batch 280-98185 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated samples reported a result above the MDL and/or RL, the result has been “B” flagged.

The LCS associated with batch 280-98185 failed the recovery criteria high for Isopropylbenzene, and the associated sample results have been flagged “*”. As no detectable concentrations of Isopropylbenzene are present in the associated samples, data are reported as is.

Additionally, assigned laboratory flags were considered as part of this data review. Data qualification, if any, related to the laboratory observations are discussed in the following sections.

2. Were sample Chain-of-Custody forms complete?	**X**	Yes		No	AB	Initials

Comments: COC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt.

3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	**X**	Yes		No	AB	Initials
Comments: All requested analyses as documented on original COC records were completed by the laboratory.						
4. Were samples received in good condition and at the appropriate temperature?	**X**	Yes		No	AB	Initials
Comments: Samples were received on ice, intact, and in good condition with cooler temperatures within the 4°C ± 2°C acceptance range at 2.6°C and 4.8°C as noted in the laboratory case narratives and on the COCs.						
5. Were the requested analytical methods in compliance with WP/QAPP, permit, or COC?	**X**	Yes		No	AB	Initials
Comments: Reported methods and target analyte lists were in compliance with COC records.						
6. Were detection limits in accordance with WP/QAPP, permit, or method?	**X**	Yes		No	AB	Initials
Comments: Reported detection limits are achievable by the quoted methods. **Analytes reported with concentrations below the laboratory reporting limits (RLs), but above the laboratory method detection limits (MDLs), were qualified as J to indicate that the concentrations are estimated. The quantitation of analytes with concentrations outside the calibration range of the instrument is inherently less reliable.** Refer to the Table of Qualified Analytical Results (pages 3-6) for a listing of the samples, analytes, and concentrations qualified.						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	**X**	Yes		No	AB	Initials
Comments: Reported target analytes were consistent with COC requests.						
8. Were sample holding times met?		Yes	**X**	No	AB	Initials
Comments: Extraction and analytical holding times were met for all samples and analyses with the following exception. **Method 8260B: SDG 280-23016-1: The laboratory noted that the pH of sample MW-14-111611 was 7 indicating the sample had insufficient preservation. The sample was analyzed within the 14 day holding time for a preserved sample, but was 7 days outside the 7 day holding time for an unpreserved sample. As some analytes may be affected by microbial degradation in an unpreserved sample, all target analyte associated with this analysis of this sample have been qualified as J or UJ to indicate estimated concentrations or undetected results with estimated reporting limits.** Refer to the Table of Qualified Analytical Results (pages 3-6) for a listing of the samples, analytes, and concentrations qualified.						
9. Were correct concentration units reported?	**X**	Yes		No	AB	Initials
Comments: Correct concentration units were reported. All parameters are reported in units of µg/L (ppb).						
10. Were the reporting requirements for flagged data met?	**X**	Yes		No	AB	Initials
Comments: Data validation qualifiers override assigned laboratory flags.						

11. Were laboratory blank samples free of target analyte contamination?		Yes	**X**	No	AB	Initials

Comments: All laboratory blanks were free of target analyte contamination with the following exceptions.

Method 8260B: SDG 280-23016-1: The laboratory blank sample associated with laboratory batch 280-97860 reported methylene chloride with a concentration below the reporting limit at 0.490 µg/L. This analyte was not detected in the associated samples and no data require qualification based on this detection.

The laboratory blank sample associated with laboratory batch 280-98252 reported methylene chloride with a concentration below the reporting limit at 0.843 µg/L. This analyte was also detected in associated samples MW-15-111711, MW-3-111711, and MW-5-111711 with concentrations less than the reporting limit and was qualified as U at the reporting limit to indicate that it was evaluated to be undetected and that the result is considered to be a false positive due to laboratory contamination.

SDGs 280-23016-1 and 280-23017-1: The laboratory blank sample associated with laboratory batch 280-98185 reported methylene chloride with a concentration below the reporting limit at 0.618 µg/L. This analyte was also detected in associated samples MW-10-111611, MW-14-111611, MW-16-111611, MW-19-111611, MW-20-111611, MW-21-111611, MW-9-111611, and TB-111611 with concentrations less than the reporting limit and was qualified as U at the reporting limit to indicate that it was evaluated to be undetected and that the result is considered to be a false positive due to laboratory contamination.

Refer to the Table of Qualified Analytical Results (pages 3-6) for a listing of the samples, analytes, and concentrations qualified.

12. Were trip blank, field blank, and/or equipment rinse blank samples free of target analyte contamination?		Yes	**X**	No	AB	Initials

Comments: There were no target analytes detected in the trip blank samples with the following exceptions.

Method 8260B: SDGs 280-23016-1 and 280-23017-1: Target analyte acetone was detected in the trip blank samples collected 11/16/2011 and 11/17/2011 at 3.2 µg/L and 3.7 µg/L, respectively. This analyte was also detected with concentrations less than the reporting limits in associated samples MW-7-111611 and MW-15-111711 and has been qualified as U at the reporting limit in these samples to indicate it is undetected and is considered to be a false positive at the reporting limit due to contamination in transit.

Target analyte methylene chloride was also detected in the trip blank sample collected 11/16/2011 at 0.55 µg/L. As noted in item 11 above the detection of methylene chloride in this trip blank sample has been determined to be a false positive due to laboratory contamination. No further qualification of associated data is required.

Refer to the Table of Qualified Analytical Results (pages 3-6) for a listing of the samples, analytes, and concentrations qualified.

13. Were instrument calibrations within method control limits?		Yes	**X**	No	AB	Initials

Comments: Instrument calibrations were within data validation and/or method specified criteria, or else noncompliant calibrations were not associated with reported sample results with the exceptions noted below. The frequency of instrument calibrations was sufficient for the reported method. Initial instrument calibrations had averaged relative standard deviations for all target compounds ≤15% or maintained a linear fit with regression coefficient values of >0.99. All relative response factors (RRFs) for target compounds were above the lower limits specified in the National Functional Guidelines for Organic Data Review.

Method 8260B: SDGs 280-23016-1 and 280-23017-1: In the continuing calibration (CCAL) analyzed on instrument MSV_E 11/29/2011 at 20:56, the %Differences (%Ds) for 1,3,5-trimethylbenzene, tert-butylbenzene, 4-isopropyltoluene and n-butylbenzene were outside the ≤25% criteria at 27.4%, 26.0%, 25.7% and 26.8%, respectively. Analysis of samples MW-10-111611, MW-14-111611, MW-16-111611, MW-17-111611, MW-18-111611, MW-19-111611, MW-20-111611, MW-21-111611, MW-22-111611, MW-9-111611, MW-DUP-111611, and TB-111611 are associated with this CCAL. These analytes have been qualified as J or UJ in these samples to indicate estimated concentrations or undetected results with estimated reporting limits.

Continued on following page

Comments (continued): **Method 8260B: SDG 280-23016-1: In the continuing calibration (CCAL) analyzed on instrument MSV_MS1 11/28/2011 at 17:42, the %D for naphthalene was outside the ≤25% criteria at 25.5%. Analysis of samples MW-7-111611 and TB-111611 are associated with this CCAL. This analyte has been qualified as UJ in these samples to indicate undetected results with estimated reporting limits.** Refer to the Table of Qualified Analytical Results (pages 3-6) for a listing of the samples, analytes, and concentrations qualified.						
14. Were surrogate recoveries within control limits?	**X**	Yes		No	AB	Initials
Comments: Surrogate percent recoveries (%Rs) for organic analyses were within data validation QC criteria for all samples.						
15. Were laboratory control sample recoveries within control limits?		Yes	**X**	No	AB	Initials
Comments: LCS and LCSD (blank spike) recoveries were within data validation or laboratory control-charted QC limits for all target analytes with the exceptions noted below. An LCS was reported with all three laboratory QC batches reported with this data set. An LCSD was included in laboratory QC batch 280-98252. **Method 8260B: SDGs 280-23016-1 and 280-23017-1: For the LCS associated with laboratory QC batch 280-98185, the %R of isopropylbenzene was outside the laboratory QC limits of 71-120% at 128%. As the elevated recovery indicates possible high bias, undetected results do not require qualification. This analyte was detected in associated samples MW-17-111611, MW-18-111611, MW-22-111611, and MW-DUP-111611 and has been qualified as J to indicate the concentrations are estimated.** SDG 280-23016-1: For the LCSD associated with laboratory QC batch 280-98252, the %R of isopropylbenzene was outside the laboratory QC limits of 71-120% at 127%. The %R was within QC limits in the LCS at 114%. As the potential high bias is not confirmed by the LCS sample, professional judgment determines no data require qualification based on this LCSD %R outlier. Refer to the Table of Qualified Analytical Results (pages 3-6) for a listing of the samples, analytes, and concentrations qualified.						
16. Were matrix spike recoveries within control limits?	**X**	Yes		No	AB	Initials
Comments: Project specific MS and MSD recoveries for target analytes were within data validation QC limits, except as noted below. MS and MSD spike recoveries for non-project samples were not considered since matrix similarity to project samples could not be guaranteed.						
17. Were RPDs within control limits?	**X**	Yes		No	AB	Initials
Comments: Laboratory RPDs for target analytes in LCS/LCSD and project-specific MS/MSD samples were within data validation control limits. All laboratory duplicate samples met data validation RPD criteria. Laboratory duplicates for non-project samples were not considered since matrix similarity to project samples could not be guaranteed.						
18. Were organic system performance criteria met?	**X**	Yes		No	AB	Initials
Comments: GC/MS method 8260B BFB tunes were within ion abundance and 12-hour clock method criteria for all analytical sequences.						
19. Were internal standards within method criteria for GC/MS sample analyses?	**X**	Yes		No	AB	Initials
Comments: Internal standards were within method criteria for all GC/MS samples and analyses.						
20. Were inorganic system performance criteria met?	NA	Yes	NA	No	AB	Initials
Comments: Not applicable to this data set – There were no inorganic parameters requested or reported for the associated samples.						

21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.	**X**	Yes		No	AB	Initials

Duplicate Sample No.	MW-DUP-111611	Primary Sample No.	MW-22-111611

Comments: The RPDs for the duplicates were within the 0-30% data validation QC limits for water samples, or RPDs were not applicable due to results that were ± the detection limit or were undetected in both samples except as indicated in bold type in the table below. Field duplicate and native sample concentrations that were both undetected are not reflected in the table below since RPDs are not applicable.

The following RPDs were calculated:

Method	Analyte	MW-22-111611	MW-DUP-111611	RPD	Qualifier	Samp RL	Dup RL	Units
8260B	1,2,4-Trimethylbenzene	1.1	0.71	43.09	<2XRL	1.0	1.0	ug/l
8260B	Benzene	5.9	4.3	31.37	J	1.0	1.0	ug/l
8260B	Ethylbenzene	3.1	2.1	38.46	J	1.0	1.0	ug/l
8260B	Isopropylbenzene	0.92	0.62	38.96	<2XRL	1.0	1.0	ug/l
8260B	n-Propylbenzene	1.6	1.0	46.15	<2XRL	1.0	1.0	ug/l

Target analytes benzene and ethylbenzene have been qualified as J in both samples to indicate the concentrations are estimated.

Refer to the Table of Qualified Analytical Results (pages 3-6) for a listing of the samples, analytes, and concentrations qualified.

22. Were qualitative criteria for organic target analyte identification met?	**X**	Yes		No	AB	Initials

Comments: Retention times and chromatography were reviewed by trained laboratory personnel in accordance with the laboratory's internal QA/QC program. No data outliers were noted, therefore, further review of sample chromatograms during data validation was not required.

23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	**X**	Yes		No	AB	Initials

Comments: There were no discrepancies between the EDD concentrations and reporting limits and the hardcopy data reports. The *practical_quantitation_limit* field of the EDD res table was populated with the adjusted reporting limit value. Qualifiers and reason codes were added to the EDD. The sampled time for the blind field duplicate sample was changed to match the time of collection of the primary sample. The edited EDD files were returned to the AECOM project manager with this data validation report 01/05/2012.

24. General Comments: Data were evaluated based on validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-08-01, June 2008 with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008 of October 1999, as they applied to the reported methodology. Field duplicate RPD control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

Refer to the Table of Qualified Analytical Results (pages 3-6) for a listing of the samples, analytes, and concentrations qualified.

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April 12, 2013

Jim Griswold
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject: **2012 Annual Groundwater Report, Maverik Country Stores (Former Caribou Refinery), Kirtland, New Mexico**

Dear Mr. Griswold:

This report provides the results of the 2012 groundwater monitoring event for the Maverik Country Stores site (former Caribou Refinery) in Kirtland, New Mexico (**Figure 1**). This monitoring event was completed during the week of December 3, 2012 to meet the annual monitoring requirements for the site. The scope of work completed included:

- Fluid level measurements of 25 on-site and off-site wells;
- Low-flow groundwater sampling of 13 wells in and around the impoundment area;
- Analytical evaluation of volatile organic compounds (VOCs) in groundwater; and
- Analytical evaluation of dissolved sulfates in groundwater of one monitoring well and the four newly installed injection wells.

Field methods, results, and conclusions from the 2012 groundwater sampling event are discussed below.

Groundwater Sampling

Groundwater sampling activities were conducted on December 4 and December 5, 2012. Prior to well sampling, site-wide fluid levels were measured using an oil/water interface probe (**Table 1**) for compilation of the site potentiometric surface map (**Figure 2**). Fluid levels were not obtainable from two of the site wells including:

- MW-04 (has been converted to an irrigation well within a pump house by Mr. Roland Jackson); and
- MW-06 (unable to locate, possibly abandoned or destroyed).

None of the monitoring wells contained measurable thicknesses of light non-aqueous phase liquid (LNAPL) during this event. Based on the December 2012 groundwater elevations, the groundwater flow direction is to the south-southwest across the site toward the San Juan River. A horizontal gradient was calculated ranging from 0.008 ft/ft near the northern portion site to 0.009 ft/ft the southern portion of the site in the residential area (**Figure 2**). This flow direction is consistent with past monitoring events.

Nine monitoring wells were sampled as part of the regular annual groundwater sampling event. In addition to the nine annually sampled wells, four newly installed injection wells were sampled. All wells were sampled utilizing a peristaltic pump and flow-through cell. Field parameters measured during the sampling event included pH, specific conductance, dissolved oxygen (DO), oxygen reduction potential (ORP) and temperature. Field measurements are provided on the groundwater sampling forms in **Attachment A**. Groundwater samples were sent to Test America in Arvada, Colorado under chain-of-custody (COC) protocol and analyzed for volatile organic compounds (VOCs) using EPA Method 8260. In addition, the groundwater samples taken from MW-17 and the four injection wells were analyzed for dissolved sulfate using EPA Method 300.0. Laboratory deliverables and AECOM data validation reports are provided in **Attachment B**.

Results of the groundwater sampling are summarized in **Table 2**. The results show that constituents of concern, benzene, toluene, ethyl benzene, and xylene (BTEX) concentrations are confined within the slurry wall impoundment area (**Figure 3**). Other detected compounds from within the slurry wall wells (MW-17, MW-22 and the four injection wells) included 1,2,4 trimethylbenzene, 1,2-dichloroethane,1,3,5-trimethylbenzene, 2-butanone (MEK), 4-isopropyltoluene, acetone, chloroform, dibromochloromethane, isopropylbenzene, methylene chloride, m-xylene and p-xylene, n-butylbenzene, n-propylbenzene, o-xylene, sec-butylbenzene, and tert-butylbenzene (**Table 2**). Dissolved sulfate was detected in MW-17 and the four injection wells. VOC concentrations in down-gradient wells (MW-10, MW-19, and MW-20) outside the slurry wall and cross gradient wells (MW-9, MW-16, and MW-21) showed concentrations below the standard analytical reporting limits for VOCs (**Table 2**). The up-gradient well, MW-18, located on the northern edge of the slurry wall had estimated concentrations below the standard analytical reporting limits for VOCs. The precision, accuracy, method compliance, and completeness of the laboratory data set have been determined to be acceptable, based on the data submitted (**Attachment B**).

Groundwater field parameters pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured using a flow through cell and YSI 556 MPS during groundwater sampling (**Attachment A**). Well MW-21 on the east side of the impoundment has an elevated conductivity level, almost an order of magnitude above other site wells. Well MW-18, on the north side of the impoundment, also revealed an elevated conductivity level, before being purged dry. The elevated conductivity in these wells is presumed to be related to salt solutions that are used and stored at the neighboring property.

Summary and Conclusions

The annual groundwater sampling at the former Caribou Refinery was completed during the week of December 3, 2012. Eight monitoring wells in and around the slurry wall impoundment area were sampled using low-flow methods for VOCs. One monitoring well and the four injection wells were sampled using low-flow methods for VOCs and dissolved sulfate. Fluid levels were measured in 25 wells to establish groundwater flow conditions. Groundwater flow is to the south-southwest across the site toward the San Juan River. Groundwater results were below New Mexico Groundwater Standards for all 8260 VOCs with the exception of wells located within the slurry wall impoundment area (MW-17 and INJ-N). Groundwater concentrations within the slurry wall contain a suite of VOCs, primarily benzene, xylenes, and 1,2-dichloroethane compounds. The maximum benzene concentrations were 85 µg/L in MW-17 and 68 µg/L in INJ-N. Dissolved sulfate concentrations where above New Mexico Groundwater Standards in MW-17, INJ-W and INJ-N.

Through time the groundwater VOC concentrations have declined appreciably, likely through biodegradation processes. VOCs such as benzene have decreased since the early 1990s. Overall, the slurry wall impoundment is functioning as designed and no off-site migration of constituents of concern is occurring.

Sincerely,

Meta Bergwall
Staff Engineer

Jason Jayroe
Project Manager

Tables

Table 1 – Groundwater Elevation Table
Table 2 – Analytical Results Table, Annually Sampled Monitoring Wells

Figures

Figure 1 – Site Location Map
Figure 2 – Potentiometric Surface Map, December 2012
Figure 3 – BTEX Concentration Map, December 2012

Attachments

Attachment A – Groundwater Sampling Forms
Attachment B – Laboratory Data and Data Validation

Tables

Table 1 Monitoring Well Construction Summary and December 2012 Fluid Levels, Maverik Country Stores, Inc. (Former Caribou Refinery)

Well ID	Completion Date	Total Depth (ft. BGS)	Well Diameter (in.)	Top of Steel Casing Elevation (ft. AMSL)	Top of PVC Casing Elevation (ft. AMSL)	Ground Surface Elevation (ft. AMSL)	Top of Screen (ft. BGS)	Bottom of Screen (ft. BGS)	Screen Length (ft.)	Top of Screen Elevation (ft. AMSL)	Bottom of Screen Elevation (ft. AMSL)	Depth to Groundwater (feet) December 2012	Product Thickness (feet)	Groundwater Elevation (ft. AMSL)	Comments
MW-1	1987	21.5	2	5207.79	5207.24	5205.75	11.5	21.5	10	5194.25	5184.25	14.91	NA	5192.33	
MW-2	1987	15	2	5197.10	5196.93	5195.25	5	15	10	5190.25	5180.25	8.25	NA	5188.68	
MW-3	1987	14.5	2	5183.00	5181.46	5181.06	4.5	14.5	10	5176.56	5166.56	3.09	NA	5178.37	
MW-4	1987	15	2	5178.41	5177.1	5176.14	5	15	10	5171.14	5161.14	NM	NA	NM	Converted to irrigation well
MW-5	1987	15	2	5175.62	5175.09	5173.67	5	15	10	5168.67	5158.67	6.42	NA	5168.67	
MW-6	1987	15.5	2	5176.40	5176.01	5174.23	5.5	15.5	10	5168.73	5158.73	NM	NA	NM	Well not located
MW-7	1987	15	2	5183.71	5182.84	5181.73	5	15	10	5176.73	5166.73	6.22	NA	5176.62	
MW-8	1987	15	2	5186.00	5185.87	5184.02	5	15	10	5179.02	5169.02	5.83	NA	5180.04	
MW-9	1987	15	2	5191.39	5191.22	5189.33	5	15	10	5184.33	5174.33	5.58	NA	5185.64	
MW-10	1987	12.5	2	5189.80	5189.30	5187.47	2.5	12.5	10	5184.97	5174.97	5.24	NA	5184.06	
MW-11	1987	33	2	5197.26	5197.15	5194.97	23	33	10	5171.97	5161.97	NM	NA	NM	Abandoned 1990
MW-12	1987	12	2	5196.66	5196.19	5194.80	2	12	10	5192.80	5182.80	NM	NA	NM	Abandoned 1990
MW-13	1987	5	2	5187.76	NA	5187.56	0	5	5	5187.56	5182.56	NM	NA	NM	Destroyed
MW-14	1989	6	2	NA	5194.47	5190.70	1	6	5	5189.70	5184.70	8.6	NA	5185.87	
MW-15	1989	6	2	NA	5188.80	5185.40	1	6	5	5184.40	5179.40	5.76	NA	5183.04	
MW-16	1990	13	2	NA	5194.98	5193.74	3	13	10	5190.74	5180.74	7.68	NA	5187.30	
MW-17	1993	15	2	5196.49	5195.91	5193.43	5	15	10	5188.43	5178.43	9.66	NA	5186.25	
MW-18	1993	15	2	5202.27	5201.75	5199.14	5	15	10	5194.14	5184.14	13.19	NA	5188.56	
MW-19	1990	12.5	2	NA	5189.54	5188.28	2.5	12.5	10	5185.78	5175.78	4.4	NA	5185.14	
MW-20	1990	12	2	NA	5191.05	5190.10	2	12	10	5188.10	5178.10	5.77	NA	5185.28	
MW-21	1990	13	2	NA	5194.81	5193.62	3	13	10	5190.62	5180.62	7.37	NA	5187.44	
MW-22	1990	13	2	NA	5195.86	5194.58	3	13	10	5191.58	5181.58	8.72	NA	5187.14	
P-1	1993	8	2	NA	5197.66	5195.74	3	8	5	5192.74	5187.74	9.7	NA	5187.96	
P-2	1993	8	2	NA	5192.32	5190.50	3	8	5	5187.50	5182.50	6.14	NA	5186.18	
P-3	1993	8	2	NA	5193.21	5191.44	3	8	5	5188.44	5183.44	6.87	NA	5186.34	
P-4	1993	8	2	NA	5198.82	5197.06	3	8	5	5194.06	5189.06	10.06	NA	5188.76	
INJ-N	2012	15	2	NA			5	15	10			9.1			
INJ-E	2012	15	2	NA			5	15	10			9.28			
INJ-S	2012	15	2	NA			5	15	10			9.49			
INJ-W	2012	15	2	NA			5	15	10			8.75			

Notes:

AMSL = Above mean sea level
BGS = Below ground surface
NM = Not Measured
NA = Not Applicable
ft =feet
in = inches

Table 2 Groundwater Results, Annually Sampled Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Chemical Name	Groundwater Standard*	Unit	MW-09	MW-10	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	INJ-W	INJ-S	INJ-E	INJ-N
1,1,1,2-Tetrachloroethane	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,1,1-Trichloroethane	60	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,1,2,2-Tetrachloroethane	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,1,2-Trichloroethane	10	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,1-Dichloroethane	25	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,1-Dichloroethene	5	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,1-Dichloropropene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,2,3-Trichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0 U	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,2,3-Trichloropropane	NS	µg/l	<2.5	<2.5	<2.5	<10	<2.5	<2.5	<2.5	<2.5	<2.5	<500	<250	<2.5	<25
1,2,4-Trichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,2,4-Trimethylbenzene	NS	µg/l	<1.0	<1.0	<1.0	**1.1 J**	<1.0	<1.0	<1.0	<1.0	**0.83 J**	<200	<100	**0.78 J**	**48**
1,2-Dibromo-3-chloropropane (	NS	µg/l	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<1000	<500	<5.0	<50
1,2-Dibromoethane (EDB)	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,2-Dichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,2-Dichloroethane	10	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	**0.20 J**	**36**
1,2-Dichloroethene (total)	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,2-Dichloropropane	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,3,5-Trimethylbenzene	NS	µg/l	<1.0	<1.0	<1.0	**4.1**	<1.0	<1.0	<1.0	<1.0	**0.48 J**	<200	<100	**0.48 J**	**22**
1,3-Dichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,3-Dichloropropane	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
1,4-Dichlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
2,2-Dichloropropane	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
2-Butanone (MEK)	NS	µg/l	<6.0	<6.0	<6.0	<24	<6.0	<6.0	<6.0	<6.0	<6.0	**10000**	**2100**	**81**	**1200**
2-Chlorotoluene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
2-Hexanone	NS	µg/l	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<1000	<500	<5.0	<50
4-Chlorotoluene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
4-Isopropyltoluene	NS	µg/l	<1.0	<1.0	<1.0	**1.2 J**	<1.0	<1.0	<1.0	<1.0	**0.28 J**	<200	<100	<1.0	<10
4-Methyl-2-pentanone	NS	µg/l	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<1000	<500	<5.0	<50
Acetone	NS	µg/l	<10	<10	<10	<40	<10	<10	**1.9 J**	<10	<10	**19000**	**3600**	**160**	**1900**
Benzene	10	µg/l	<1.0	<1.0	<1.0	**85**	<1.0	<1.0	<1.0	<1.0	**4.1**	<200	<100	**0.20 J**	**68**
Bromobenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Bromochloromethane	NS	µg/l	<1.0	<1.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Bromodichloromethane	NS	µg/l	<1.0	<1.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	**0.95 J**	<10

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103
NS - No Standard
J - Estimated result. Result is less than RL
U - Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive
Bold - Detected result
Highlighted - Result Exceeds New Mexico Groundwater Standard

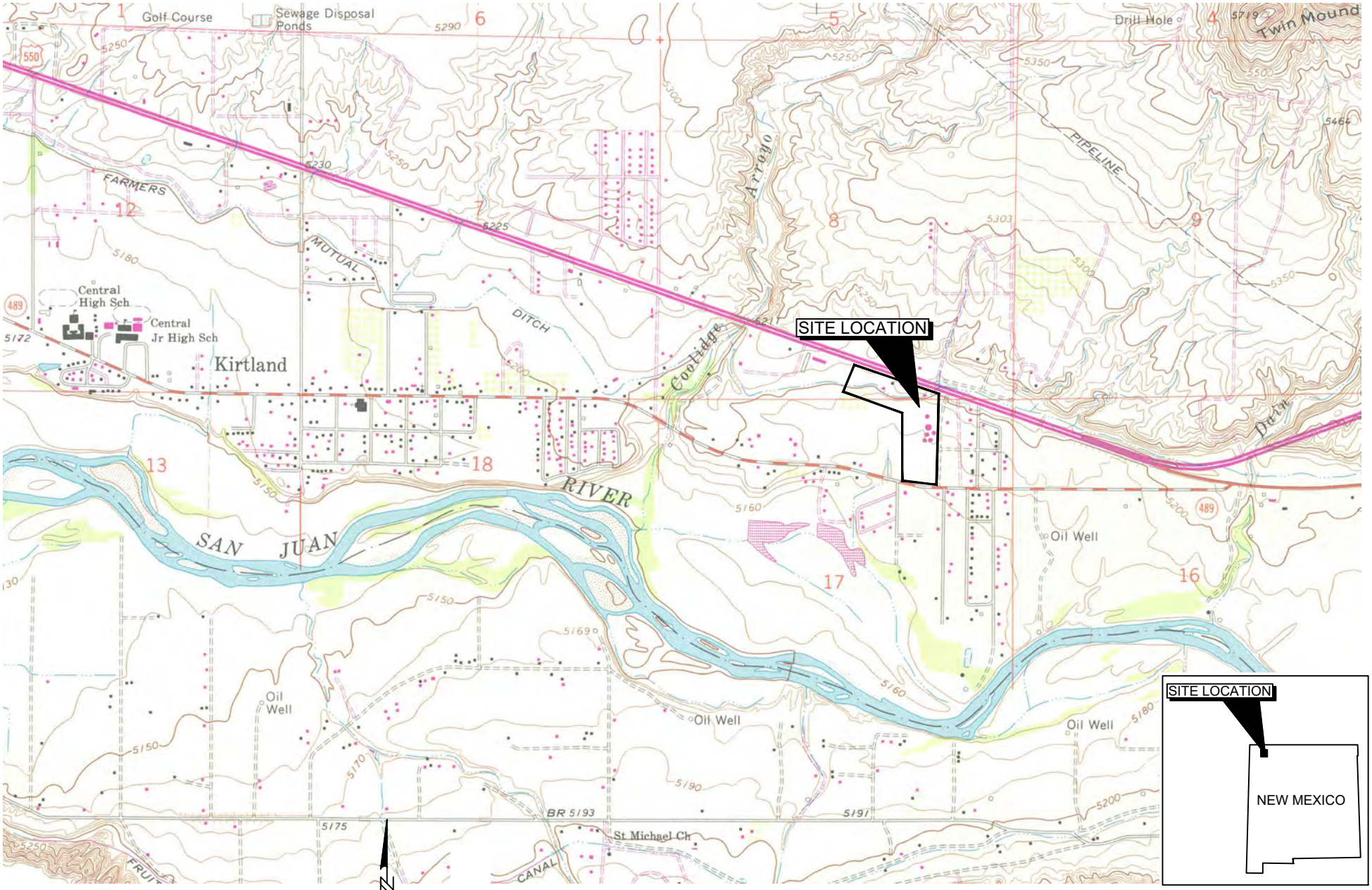
Table 2 Groundwater Results, Annually Sampled Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Chemical Name	Groundwater Standard*	Unit	MW-09	MW-10	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	INJ-W	INJ-S	INJ-E	INJ-N
Bromoform	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Bromomethane	NS	µg/l	<2.0	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<400	<200	<2.0	<20
Carbon tetrachloride	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Chlorobenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Chloroethane	NS	µg/l	<2.0	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<400	<200	<2.0	<20
Chloroform	100	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	**2.4**	<10
Chloromethane	NS	µg/l	<2.0	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<400	<200	<2.0	,20
cis-1,2-Dichloroethene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
cis-1,3-Dichloropropene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Dibromochloromethane	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	**0.29 J**	<10
Dibromomethane	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Dichlorodifluoromethane	NS	µg/l	<2.0	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<400	<200	<2.0	,20
Ethylbenzene	750	µg/l	<1.0	<1.0	<1.0	**5.1**	<1.0	<1.0	<1.0	<1.0	**2.8**	<200	<100	**0.36 J**	**39**
Hexachlorobutadiene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Isopropylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	**1.5**	<200	<100	<1.0	**2.5 J**
Methyl tert-butyl ether	NS	µg/l	<5.0	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<5.0	<5.0	<1000	<500	<5.0	<50
Methylene chloride	100	µg/l	<2.0	<2.0	<2.0	**9.2**	<2.0	<2.0	<2.0	<2.0	<2.0	**270 J**	**78 J**	<2.0	**21**
m-Xylene & p-Xylene	NS	µg/l	<2.0	<2.0	<2.0	**9.7**	<2.0	<2.0	<2.0	<2.0	<2.0	<400	<200	**1.2 J**	**210**
Naphthalene	30	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0 U	<1.0	<1.0	<1.0	<1.0 U	<200	<100	<1.0	<10 U
n-Butylbenzene	NS	µg/l	<1.0	<1.0	<1.0	**1.5 J**	<1.0	<1.0	<1.0	<1.0	**1.1**	<200	<100	<1.0	<10
n-Propylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	**4.4**	<200	<100	<1.0	**6.0 J**
o-Xylene	NS	µg/l	<1.0	<1.0	<1.0	**0.76 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	**0.20 J**	**71**
sec-Butylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	**0.27 J**	<1.0	<1.0	<1.0	**3.2**	<200	<100	<1.0	<10
Styrene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Sulfate-Dissolved	600	mg/l	--	--	--	**840**	--	--	--	--	--	**670**	**510**	**530**	**1000**
tert-Butylbenzene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	**0.73 J**	<1.0	<1.0	<1.0	**0.35 J**	<200	<100	<1.0	<10
Tetrachloroethene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Toluene	NS	µg/l	<1.0	<1.0	<1.0	**2.6 J**	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	**0.36 J**	**71**
trans-1,2-Dichloroethene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
trans-1,3-Dichloropropene	NS	µg/l	<3.0	<3.0	<3.0	<12	<3.0	<3.0	<3.0	<3.0	<3.0	<600	<300	<3.0	<30
Trichloroethene	NS	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Trichlorofluoromethane	NS	µg/l	<2.0	<2.0	<2.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	<400	<200	<2.0	<20
Vinyl chloride	1	µg/l	<1.0	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<1.0	<10
Xylenes (total)	100	µg/l	<2.0	<2.0	<2.0	**10**	<2.0	<2.0	<2.0	<2.0	<2.0	<400	<200	**1.4 J**	**280**

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103
NS - No Standard
-- Not Sampled
J - Estimated result. Result is less than RL
U - Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive
Bold - Detected result
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Figures

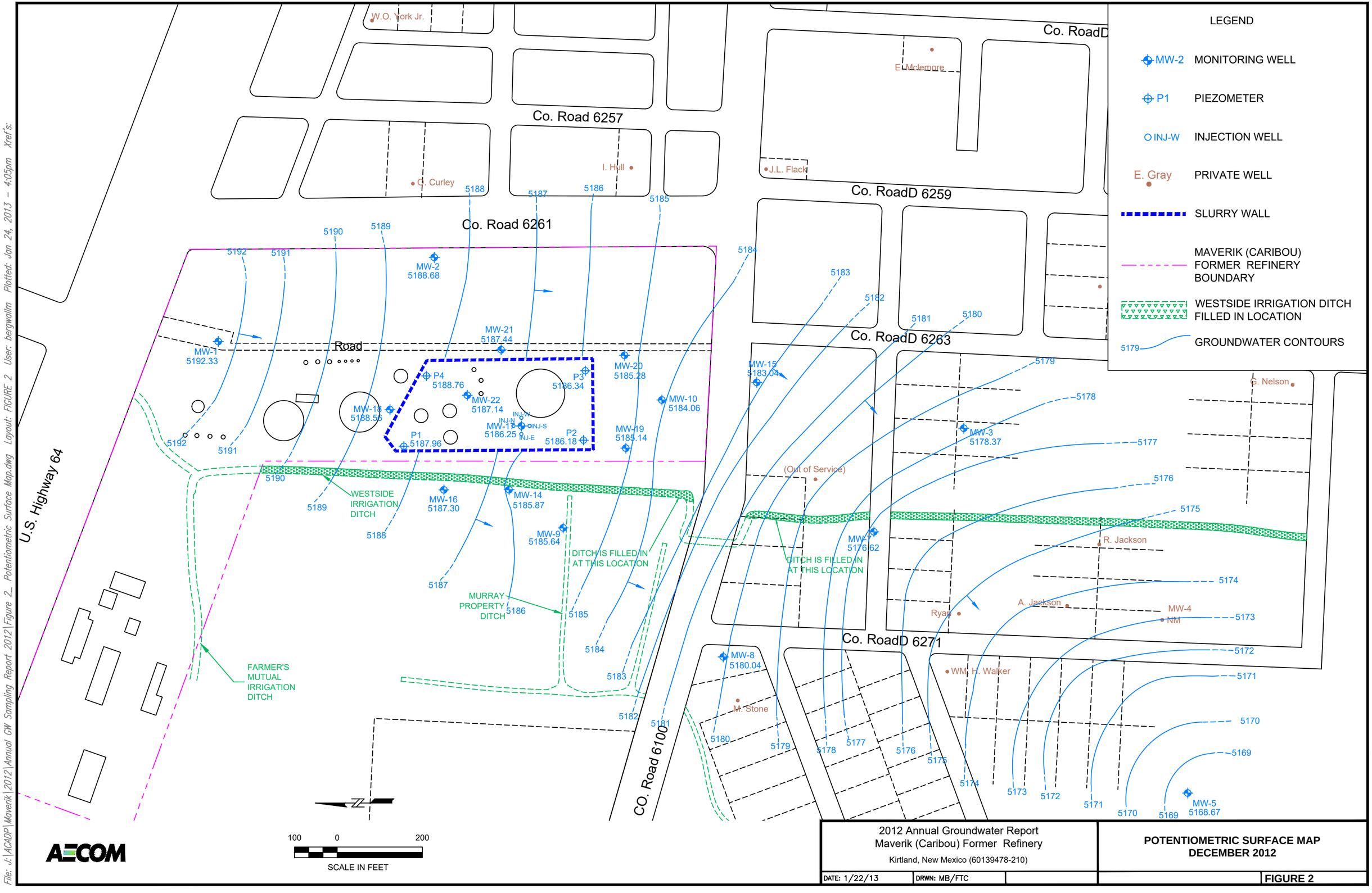


AECOM

2012 Annual Groundwater Report
Maverik (Caribou) Former Refinery
Kirtland, New Mexico (60139478-210)

SITE LOCATION MAP

DATE: 2/19/13 | DRWN: EM/FTC | **FIGURE 1**



File: J:\ACADP\Maverik\2012\Annual GW Sampling Report 2012\Figure 2_ Potentiometric Surface Map.dwg Layout: FIGURE 2 User: bergwallm Plotted: Jan 24, 2013 – 4:05pm Xref's:

INJ-W	
	12/05/12
Benzene	<200
Ethylbenzene	<200
Toulene	<200
Xylenes (total)	<400

MW-17	
	12/05/12
Benzene	85
Ethylbenzene	5.1
Toulene	2.6 J
Xylenes (total)	10

MW-20	
	12/05/12
Benzene	<1.0
Ethylbenzene	<1.0
Toulene	<1.0
Xylenes (total)	<2.0

MW-21	
	12/05/12
Benzene	<1.0
Ethylbenzene	<1.0
Toulene	<1.0
Xylenes (total)	<2.0

MW-10	
	12/05/12
Benzene	<1.0
Ethylbenzene	<1.0
Toulene	<1.0
Xylenes (total)	<2.0

MW-22	
	12/05/12
Benzene	4.1
Ethylbenzene	2.8
Toulene	<1.0
Xylenes (total)	<2.0

INJ-N	
	12/05/12
Benzene	68
Ethylbenzene	39
Toulene	71
Xylenes (total)	280

MW-18	
	12/05/12
Benzene	<1.0
Ethylbenzene	<1.0
Toulene	<1.0
Xylenes (total)	<2.0

INJ-S	
	12/05/12
Benzene	<100
Ethylbenzene	<100
Toulene	<100
Xylenes (total)	<200

MW-16	
	12/05/12
Benzene	<1.0
Ethylbenzene	<1.0
Toulene	<1.0
Xylenes (total)	<2.0

INJ-E	
	12/05/12
Benzene	0.20 J
Ethylbenzene	0.36 J
Toulene	0.36 J
Xylenes (total)	1.4 J

MW-19	
	12/05/12
Benzene	<1.0
Ethylbenzene	<1.0
Toulene	<1.0
Xylenes (total)	<2.0

MW-9	
	12/05/12
Benzene	<1.0
Ethylbenzene	<1.0
Toulene	<1.0
Xylenes (total)	<2.0

Co. RoadD 6255
Co. Road 6257
Co. Road 6259
Co. Road 6263
Co. RoadD 6271
Co. Road 6100
U.S. Highway 64
E. Mclemore
E. Gray
R. Neff
L. Hull
L. Flack
O. Curley
G. Nelson
R. Jackson
A. Jackson
Ryan
WM. H. Walker
M. Stone
MW-21
MW-20
MW-15
MW-10
MW-22
MW-18
MW-17
INJ-W
INJ-N
INJ-E
INJ-S
P1
P2
P3
P4
MW-19
MW-3
MW-7
MW-16
MW-14
MW-9
MW-8
WESTSIDE IRRIGATION DITCH
DITCH IS FILLED IN AT THIS LOCATION
MURRAY PROPERTY DITCH
FARMER'S MUTUAL IRRIGATION DITCH
(ice)

LEGEND

- MW-2 MONITORING WELL
- P1 PIEZOMETER
- E. Gray PRIVATE WELL
- SLURRY WALL
- MAVERIK (CARIBOU) FORMER REFINERY BOUNDARY
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

ALL RESULTS ARE IN MICROGRAMS PER LITER (µg/L)
J - ESTIMATED CONCENTRATION

100 0 200
SCALE IN FEET

AECOM

2012 Annual Groundwater Report
Maverik (Caribou) Former Refinery
Kirtland, New Mexico (60139478-210)

BTEX Concentration in Groundwater December 2012

DATE: 1/21/13 | DRWN: MB/FTC | **FIGURE 3**

File: Z:\Maverik\2012\Annual GW Sampling Report 2012\Figure 3_BTEX Concentrations.dwg Layout: FIGURE 3 User: marshalle Plotted: Feb 20, 2013 – 12:37pm Xref's:

Attachment A

Groundwater Sampling Forms

Groundwater Sampling Form

Maverik

Well ID: MW-22
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: Yes
Well Label: No
Surface Pad: No

Fluid Level/Purge Volume Information

Date: 12/4/12 Time: 09:42

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 8.72
Depth to product (ft): ND
Total depth (ft): 14.01

Water column thickness (ft): 5.29
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/4/12 Start Time: 13:35

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
13:37	0.1	7.27	2.203	18.68	2.65		Clear
13:42	0.4	7.19	2.182	18.71	0.45		Clear
13:47	0.7	7.18	2.160	18.40	0.28		Clear
13:52	1.0	7.16	2.171	18.32	0.31		Clear
13:57	1.3	7.26	2.064	18.39	0.46		Clear with slight odor
PURGED DRY AT 1.3 GAL							

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/4/12 Time: 14:05

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
☐					
☐					
☐					
☐					
☐					

Comments: ORP not sampled due to instrument operating error.

Groundwater Sampling Form

Maverik

Well ID: MW-21
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: Yes
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12 Time: 09:52

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 7.37
Depth to product (ft): ND
Total depth (ft): 14.55
Water column thickness (ft): 7.18
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/4/12 Start Time: 14:16

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
14:20	0.1	6.52	15.29	18.14	1.80		Clear
14:25	0.2	6.58	14.84	17.90	0.84		Clear
14:30	0.3	6.63	14.72	17.62	0.85		Clear
14:35	0.4	6.57	15.08	17.99	0.98		Clear
14:40	0.5	6.54	15.19	18.05	0.42		Clear
14:45	0.6	6.53	15.24	18.12	0.65		Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/4/12 Time: 14:50

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
☐					
☐					
☐					
☐					
☐					

Comments: ORP not sampled due to instrument operating error.

Groundwater Sampling Form

Maverik

Well ID: MW-20
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Okay
Secured: Yes
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12
Time: 10:00

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 5.77
Depth to product (ft): ND
Total depth (ft): 13.53
Water column thickness (ft): 7.76
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/4/12
Start Time: 14:57

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
15:03	0.1	7.59	1.507	16.95	1.49		Clear
15:08	0.2	7.49	1.421	16.88	0.87		Clear
15:13	0.3	7.46	1.382	16.88	0.55		Clear
15:18	0.4	7.46	1.399	17.17	0.45		Clear
15:23	0.5	7.46	1.398	16.86	0.38		Clear
15:28	0.6	7.46	1.395	16.90	0.34		Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/4/12
Time: 15:30

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
☐					
☐					
☐					
☐					
☐					

Comments: ORP not sampled due to instrument operating error.

Groundwater Sampling Form

Maverik

Well ID: MW-19
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: Yes
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12
Time: 10:03

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 4.40
Depth to product (ft): ND
Total depth (ft): 14.22

Water column thickness (ft): 9.82
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/5/12
Start Time: 08:14

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
08:19	0.1	7.35	1.623	12.00	2.11	39.4	Clear
08:24	0.2	7.36	1.644	12.33	0.62	22.8	Clear
08:29	0.3	7.35	1.660	12.58	0.45	25.4	Clear
08:34	0.4	7.34	1.666	12.72	0.32	30.9	Clear
08:39	0.5	7.33	1.671	12.84	0.24	37.4	Clear
08:44	0.6	7.33	1.675	12.91	0.24	35.4	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/5/12
Time: 08:50

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
☐					
☐					
☐					
☐					
☐					

Comments:

Groundwater Sampling Form

Maverik

Well ID: MW-18
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: Yes
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12
Time: 09:36

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 13.19
Depth to product (ft): ND
Total depth (ft): 14.60

Water column thickness (ft): 1.41
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/4/12
Start Time: 12:48

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
13:05	0.1	7.00	4.782	19.68	1.33		Black
PURGED DRY AT 0.1 GAL							

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/4/12
Time: 13:20

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
☐					
☐					
☐					
☐					
☐					

Comments: ORP not sampled due to instrument operating error.

Groundwater Sampling Form

Maverik

Well ID: MW-17
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: Yes
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12
Time: 12:30

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 9.66
Depth to product (ft): ND
Total depth (ft): 16.67
Water column thickness (ft): 7.01
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/5/12
Start Time: 10:29

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
10:33	0.1	7.10	2.215	14.81	2.92	-201.7	Clear, slight odor
10:38	0.2	7.10	2.256	15.45	0.37	-233.6	Clear, odor
10:43	0.3	7.09	2.266	15.42	0.26	-261.3	Clear, odor
10:48	0.4	7.08	2.237	15.73	0.23	-278.3	Clear, odor
10:53	0.5	7.07	2.277	15.63	0.20	-281.2	Clear, odor
10:58	0.6	7.06	2.284	15.73	0.17	-256.6	Clear, odor

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/5/12
Time: 11:00

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
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☐					
☐					
☐					

Comments:

Groundwater Sampling Form

Maverik

Well ID: MW-16
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: Yes
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12 Time: 12:21

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 7.68
Depth to product (ft): ND
Total depth (ft): 14.64

Water column thickness (ft): 6.96
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/5/12 Start Time: 09:42

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
09:46	0.1	7.11	2.181	14.22	3.07	64.1	Clear
09:51	0.2	7.08	2.164	14.36	1.85	62.2	Clear
09:56	0.3	7.08	2.175	14.47	1.67	60.4	Clear
10:01	0.4	7.08	2.183	14.55	1.56	60.1	Clear
10:06	0.5	7.07	2.183	14.42	1.50	61.0	Clear
10:11	0.6	7.06	2.184	14.36	1.50	60.6	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/5/12 Time: 10:15

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
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☐					

Comments:

Groundwater Sampling Form

Maverik

Well ID: MW-10
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: Yes
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12 Time: 10:07

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 5.24
Depth to product (ft): ND
Total depth (ft): 15.23
Water column thickness (ft): 9.99
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/4/12 Start Time: 15:40

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
15:45	0.1	7.62	1.193	14.26	6.37		Clear
15:50	0.2	7.55	1.188	14.15	0.88		Clear
15:55	0.3	7.53	1.184	14.02	0.61		Clear
16:00	0.4	7.52	1.177	13.76	0.52		Clear
16:05	0.5	7.51	1.172	13.61	0.46		Clear
16:10	0.6	7.51	1.171	13.58	0.45		Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/4/12 Time: 16:15

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
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Comments: ORP not sampled due to instrument operating error.

Groundwater Sampling Form

Maverik

Well ID: MW-09
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: Yes
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12
Time: 12:15

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 5.58
Depth to product (ft): ND
Total depth (ft): 16.62
Water column thickness (ft): 11.04
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/5/12
Start Time: 09:02

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
09:07	0.1	7.43	1.861	12.26	2.61	40.9	Clear
09:12	0.2	7.35	1.892	13.00	0.53	32.5	Clear
09:17	0.3	7.33	1.935	13.87	0.34	23.9	Clear
09:22	0.4	7.33	1.955	13.99	0.39	21.6	Clear
09:27	0.5	7.33	1.973	14.29	0.24	14.0	Clear
09:32	0.6	7.32	1.999	14.75	0.37	9.9	Clear

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/5/12
Time: 09:35

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
☐					
☐					
☐					
☐					
☐					

Comments:

Groundwater Sampling Form

Maverik

Well ID: INJ-W
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: No
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12
Time: 12:26

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 8.75
Depth to product (ft): ND
Total depth (ft): 17.52
Water column thickness (ft): 8.77
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/5/12
Start Time: 11:08

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
11:11	0.1	7.52	1.977	14.45	3.54	-135.4	Cloudy
11:16	0.3	7.46	1.992	14.97	1.80	-118.2	Cloudy
11:21	0.5	7.44	2.008	15.35	1.59	-105.4	Cloudy
11:26	0.7	7.41	2.021	15.54	1.57	-96.1	Cloudy
11:31	0.9	7.40	2.037	15.81	1.53	-87.7	Cloudy
11:36	1.1	7.40	2.033	15.56	1.35	-80.7	Cloudy

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/5/12
Time: 11:40

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
☐					
☐					
☐					
☐					
☐					

Comments:

Groundwater Sampling Form

Maverik

Well ID: INJ-S
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: No
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12
Time: 12:32

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 9.49
Depth to product (ft): ND
Total depth (ft): 19.07
Water column thickness (ft): 9.58
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/5/12
Start Time: 11:43

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
11:47	0.1	7.45	2.078	15.98	3.20	-73.7	Cloudy
11:52	0.2	7.40	2.092	16.37	1.36	-85.7	Cloudy
11:57	0.3	7.41	2.095	16.55	1.31	-84.3	Cloudy
12:02	0.4	7.41	2.094	16.75	1.35	-80.1	Cloudy
12:07	0.5	7.41	2.101	16.95	1.13	-77.2	Cloudy
12:12	0.6	7.40	2.111	17.24	1.17	-74.0	Cloudy

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/5/12
Time: 12:15

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
☐					
☐					
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☐					
☐					

Comments:

Groundwater Sampling Form

Maverik

Well ID: INJ-N
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: No
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12
Time: 12:35

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 9.10
Depth to product (ft): ND
Total depth (ft): 19.82
Water column thickness (ft): 10.72
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/5/12
Start Time: 12:55

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
13:00	0.1	7.39	2.477	16.53	2.00	-21.4	Slightly cloudy
13:05	0.2	7.35	2.519	16.91	1.55	-32.7	Slightly cloudy
13:10	0.3	7.35	2.523	16.99	1.49	-33.6	Slightly cloudy
13:15	0.4	7.35	2.528	17.05	1.43	-34.4	Slightly cloudy
13:20	0.5	7.35	2.534	17.06	1.36	-35.5	Slightly cloudy
13:25	0.6	7.35	2.456	17.21	1.31	-35.6	Slightly cloudy

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/5/12
Time: 13:30

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
☐					
☐					
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☐					

Comments:

Groundwater Sampling Form

Maverik

Well ID: INJ-E
Sampler(s): DBlack

Well Condition

Bump Posts: No
Visibility: Good
Secured: No
Well Label: Yes
Surface Pad: Yes

Fluid Level/Purge Volume Information

Date: 12/4/12
Time: 12:34

Purge Method: Peristaltic – Low Flow
Depth to water (ft): 9.28
Depth to product (ft): ND
Total depth (ft): 19.21
Water column thickness (ft): 9.93
One Purge Volume (gal): N/A

Groundwater Field Parameters

Date: 12/5/12
Start Time: 12:17

Time	Evacuated (gal)	pH (SU)	SpCond. (mS/cm)	Temp. (°C)	Dis. Ox. (ppm)	ORP (mV)	Sample Appearance/Description
12:22	0.1	7.81	1.735	17.07	1.62	-108.1	Cloudy
12:27	0.2	7.76	1.891	17.05	0.59	-132.9	Cloudy
12:32	0.3	7.56	1.926	17.25	0.48	-157.9	Cloudy
12:37	0.4	7.58	1.948	17.44	0.38	-167.9	Cloudy
12:42	0.5	7.56	1.942	17.07	0.41	-173.6	Cloudy
12:47	0.6	7.56	1.952	17.24	0.36	-183.8	Cloudy

Meter Calibration Information

Probes	Date	Time	Comments
DO Calibration			YSI 556
pH and SpC Calibration			YSI 556
ORP Calibration	NA	NA	YSI 556, laboratory calibration

Sample Collection and Analytical Information

Date: 12/5/12
Time: 12:50

Laboratory: TestAmerica
COC Seal: Yes
Shipped by: FedEx
Shipping Container: Ice Cooler
Field Instrument(s): YSI Flow Through Cell

Check Box**	Parameters	Method	Container(s)	Preservative	Comments
☒	VOCs	SW 8260	3-40 mL voa	HCL/ice	Watch out for HCL, No headspace
☐					
☐					
☐					
☐					
☐					
☐					

Comments:

Attachment B

Laboratory Data and Data Validation

AECOM Environment

Submitted to:
Maverik Kirtland

Submitted by:
AECOM
Fort Collins, CO
60139478.210
February 11, 2013

Organic and Inorganic Data Validation Report

Maverik Country Stores, Inc Kirtland, NM
Groundwater Samples
TestAmerica of Arvada, CO Laboratory Data
December 2012 Sampling

Prepared By Ann Biegelsen
Environmental Quality Assurance Chemist

Overview

The samples analyzed for the Maverik Country Stores, Inc. Kirtland, NM Groundwater sampling event from December 2012 are listed in the Table of Samples Analyzed (page 3). Data validation was performed on fourteen groundwater samples and one trip blank sample.

The samples were analyzed by TestAmerica of Arvada, CO. The validated analyses were: Volatile Organic Compounds (VOCs) by SW846 method 8260B; and Dissolved Sulfate by MCAWW Ion Chromatography Method 300.0.

The Analytical Data Validation Checklist is presented as pages 5-10. Data were evaluated based on validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-08-01, June 2008 with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008 of October 1999, and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, document number USEPA-540-R-10-011 of January 2010 with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review*, document number EPA 540-R-04-004 of October 2004, as they applied to the reported methodology. Field duplicate RPD control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

The following data components were reviewed during the data validation procedure:

Submitted Deliverables
Case Narratives
Chain-of-Custody form(s) and sample integrity
Sample results, reporting detection limits, method detection limits, dilution factors
Holding times
Method blank results
LCS/LCSD (blank spike) results
MS/MSD (matrix spike) results
Instrument tunes (system performance checks)
Instrument calibrations
Laboratory duplicate results
Organic surrogate recoveries
GC/MS Internal standards
Blind field duplicate results
Electronic data deliverables (EDDs)

Data Validation Qualifiers Assigned During this Review

J detected result, estimated concentration

U result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

Assigned qualifiers are detailed in the Analytical Data Validation Checklist and are summarized in the Table of Qualified Analytical Results (page 4).

Overall Data Assessment

Precision, accuracy, method compliance, and completeness of the data set have been determined to be acceptable, based on the data submitted. The data are suitable for their intended use.

Table of Samples Analyzed
Maverik Country Stores, Inc. Kirtland, NM - Groundwater Samples
TestAmerica of Arvada, CO Laboratory SDG 280-36712-1
December 2012 Sampling

Matrix	Sample ID	Parent Sample ID	Sample Date and Time		Lab SDG	Lab Sample ID	COC Reference
Groundwater	DUP-1	MW-17	12/5/2012	11:00	280367121	280-36712-14	170337
Groundwater	INJ-E		12/5/2012	12:50	280367121	280-36712-12	170336
Groundwater	INJ-N		12/5/2012	13:30	280367121	280-36712-13	170337
Groundwater	INJ-S		12/5/2012	12:15	280367121	280-36712-11	170336
Groundwater	INJ-W		12/5/2012	11:40	280367121	280-36712-10	170336
Groundwater	MW-09		12/5/2012	09:35	280367121	280-36712-7	170336
Groundwater	MW-10		12/4/2012	16:15	280367121	280-36712-5	170336
Groundwater	MW-16		12/5/2012	10:15	280367121	280-36712-8	170336
Groundwater	MW-17		12/5/2012	11:00	280367121	280-36712-9	170336
Groundwater	MW-18		12/4/2012	13:20	280367121	280-36712-1	170336
Groundwater	MW-19		12/5/2012	08:50	280367121	280-36712-6	170336
Groundwater	MW-20		12/4/2012	15:30	280367121	280-36712-4	170336
Groundwater	MW-21		12/4/2012	14:50	280367121	280-36712-3	170336
Groundwater	MW-22		12/4/2012	14:05	280367121	280-36712-2	170336
Water QC	TB-120412		12/4/2012	00:00	280367121	280-36712-15	170337

Table of Qualified Analytical Results
Maverik Country Stores, Inc. Kirtland, NM - Groundwater Samples
TestAmerica of Arvada, CO Laboratory SDG 280-36712-1
December 2012 Sampling

Lab SDG	Sample ID	Analysis	Df	Method	Analyte	Concentration		Qualifier	Reason Code
280367121	DUP-1-120512	Initial	4x	8260B	1,2,4-Trimethylbenzene	1.1	ug/l	J	BRL
280367121	DUP-1-120512	Initial	4x	8260B	4-Isopropyltoluene	1.2	ug/l	J	BRL
280367121	DUP-1-120512	Initial	4x	8260B	Methylene Chloride	5.0	ug/l	J	BRL
280367121	DUP-1-120512	Initial	4x	8260B	n-Butylbenzene	1.5	ug/l	J	BRL
280367121	DUP-1-120512	Initial	4x	8260B	o-Xylene	0.98	ug/l	J	BRL
280367121	DUP-1-120512	Initial	4x	8260B	Toluene	2.8	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	1,2,4-Trimethylbenzene	0.78	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	1,2-Dichloroethane	0.20	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	1,3,5-Trimethylbenzene	0.48	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	Benzene	0.20	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	Bromodichloromethane	0.95	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	Dibromochloromethane	0.29	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	Ethylbenzene	0.36	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	m-Xylene & p-Xylene	1.2	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	o-Xylene	0.20	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	Toluene	0.36	ug/l	J	BRL
280367121	INJ-E-120512	Initial	1x	8260B	Xylenes, Total	1.4	ug/l	J	BRL
280367121	INJ-N-120512	Initial	10x	8260B	Isopropylbenzene	2.5	ug/l	J	BRL
280367121	INJ-N-120512	Initial	10x	8260B	Naphthalene	< 10	ug/l	U	MB, BRL, original result was 7.6 ug/L
280367121	INJ-N-120512	Initial	10x	8260B	n-Propylbenzene	6.0	ug/l	J	BRL
280367121	INJ-S-120512	Initial	100x	8260B	Methylene Chloride	78	ug/l	J	BRL
280367121	INJ-W-120512	Initial	200x	8260B	Methylene Chloride	270	ug/l	J	BRL
280367121	MW-17-120512	Initial	4x	8260B	1,2,4-Trimethylbenzene	1.1	ug/l	J	BRL
280367121	MW-17-120512	Initial	4x	8260B	4-Isopropyltoluene	1.2	ug/l	J	BRL
280367121	MW-17-120512	Initial	4x	8260B	n-Butylbenzene	1.5	ug/l	J	BRL
280367121	MW-17-120512	Initial	4x	8260B	o-Xylene	0.76	ug/l	J	BRL
280367121	MW-17-120512	Initial	4x	8260B	Toluene	2.6	ug/l	J	BRL
280367121	MW-18-120412	Initial	1x	8260B	1,2,3-Trichlorobenzene	< 1.0	ug/l	U	MB, BRL, original result was 0.22 ug/L
280367121	MW-18-120412	Initial	1x	8260B	Naphthalene	< 1.0	ug/l	U	MB, BRL, original result was 0.23 ug/L
280367121	MW-18-120412	Initial	1x	8260B	sec-Butylbenzene	0.27	ug/l	J	BRL
280367121	MW-18-120412	Initial	1x	8260B	tert-Butylbenzene	0.73	ug/l	J	BRL
280367121	MW-20-120412	Initial	1x	8260B	Acetone	1.9	ug/l	J	BRL
280367121	MW-22-120412	Initial	1x	8260B	1,2,4-Trimethylbenzene	0.83	ug/l	J	BRL
280367121	MW-22-120412	Initial	1x	8260B	1,3,5-Trimethylbenzene	0.48	ug/l	J	BRL
280367121	MW-22-120412	Initial	1x	8260B	4-Isopropyltoluene	0.28	ug/l	J	BRL
280367121	MW-22-120412	Initial	1x	8260B	Naphthalene	< 1.0	ug/l	U	MB, BRL, original result was 0.23 ug/L
280367121	MW-22-120412	Initial	1x	8260B	tert-Butylbenzene	0.35	ug/l	J	BRL

Qualifier Definitions

J – Estimated concentration

U – Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

Reason Code Definitions

BRL – Reported concentration is greater than the method detection limit (MDL) but less than the reporting limit (RL).

MB – Method blank contamination.

Project Name: Maverik Country Stores	Laboratory: TestAmerica of Arvada, CO
Project Reference: Kirtland, NM	Sample Matrix: Groundwater with Water QC
AECOM Project No.: 60139478.210	Sample Start Date: 12/04/2012
Validated By/Date Validated: Ann Biegelsen / 02/11/2013	Sample End Date: 12/05/2012
Samples Analyzed: Refer to the Table of Samples Analyzed (page 3).	
Parameters Validated: Volatile Organic Compounds (VOCs) by SW846 method 8260B; and Dissolved Sulfate by MCAWW Ion Chromatography Method 300.0. Not all samples were analyzed for every parameter. Refer to individual Chain of Custody reports for the exact analyses requested.	
Laboratory Sample Delivery Group (SDG) IDs: 280-36712-1	

PRECISION, ACCURACY, METHOD COMPLIANCE, AND COMPLETENESS ASSESSMENT

Precision:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Precision is the measure of variability of individual sample measurements. Field precision was determined by comparison of field duplicate sample results. Laboratory precision was determined by examination of laboratory duplicate results. Evaluation of both field and laboratory duplicates for precision was done using the Relative Percent Difference (RPD). The RPD is defined as the difference between two duplicate samples divided by the mean and expressed as a percent. Field duplicate RPD QC limits were set at 0-30% for water samples. Laboratory RPD limits referenced EPA published QC limits. No data require qualification based on field or laboratory duplicate RPDs, and overall field and laboratory precision is acceptable. Precision measurements are reviewed in items 17, 20, and 21.						
Accuracy:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Field accuracy, a measure of the sampling bias, was determined by reviewing trip blank results for evidence of sample contamination stemming from sample transport. Laboratory accuracy is a measure of the system bias, and was measured by evaluating laboratory control sample/laboratory control sample duplicate (LCS/LCSD), matrix spike/matrix spike duplicate (MS/MSD), and organic system monitoring compounds (surrogate) percent recoveries (%Rs). LCS/LCSD %Rs, which demonstrated the overall performance of the analysis, were compared to EPA published QC limits. MS/MSD %Rs, which provided information on sample matrix interferences, were compared to EPA published QC limits or laboratory control charted limits. System monitoring compound or surrogate recoveries, which measured system performance and efficiency during organic analysis, were compared to EPA published QC limits or laboratory control charted limits. No data require qualification based on field or laboratory accuracy measurements, and overall field and laboratory accuracy is acceptable. Accuracy measurements are reviewed in items 12, 14, 15 and 16.						
Method Compliance:	**X**	Acceptable		Unacceptable	AB	Initials
Comments: Method compliance was determined by evaluating sample integrity, holding time, system performance checks, initial and continuing instrument calibrations, laboratory blanks, internal standards, and target analyte identification against method specified requirements, while applying EPA data validation guidelines. Although some data require qualification based on analytes detected with concentrations less than the reporting limits but greater than the method detection limits (see item 6), or laboratory method blank contamination (see item 11), overall method compliance is acceptable based on the supplied data. Method compliance measurements are reviewed in items 4, 6, 8, 11, 13, 18, 19, 20 and 22.						

Completeness:	X	Acceptable		Unacceptable	AB	Initials

Comments: Completeness is the overall ratio of the number of samples planned versus the number of samples with validated analyses. Completeness goals are set at 90-100%. Determination of completeness included a review of chain of custody records, laboratory analytical methods and detection limits, laboratory case narratives, and project requirements. Completeness also included 100% review of the laboratory sample data results, QC summary reports, and electronic data deliverables (EDDs). All of the data received from the laboratory are useable with qualification. Completeness of the data is calculated to be 100% and is acceptable.

VALIDATION CRITERIA CHECK

Data validation qualifiers used in this review:

J – detected result, estimated concentration

U – result has been evaluated to be undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

The following comments requiring qualification are in bold type. The other comments are of interest, but qualification of the sample data was not necessary.

Refer to the Table of Qualified Analytical Results (page 4) for a listing of the samples, analytes, and concentrations qualified.

1. Did the laboratory identify any non-conformances related to the analytical results?	X	Yes		No	AB	Initials

Explanation by laboratory:

General Comments: Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receipt: Chain-of-custody 170336 does not request Dissolved Sulfate analysis for sample MW-17; however, a container labeled MW-17 requesting Dissolved Sulfate analysis was received at the laboratory. As instructed by the client on 12/11/2012, sample MW-17 was logged for Dissolved Sulfate analysis. A revised chain-of-custody was received via email transmission on 12/11/2012, and has been included.

Method 8260B: In some cases, due to high concentrations of target analytes, samples had to be analyzed using reduced aliquot sizes. The reporting limits have been elevated accordingly.

Sample INJ-E was received at the laboratory with insufficient preservation measuring a pH of 7. If samples are not preserved to a pH of 2.0 and analyses are performed outside a 7 day holding time, experimental evidence suggests that some aromatic compounds in wastewater samples, notably benzene, toluene, and ethylbenzene are susceptible to biological degradation. The sample was analyzed within 7 days of sample collection.

Naphthalene and 1,2,3-Trichlorobenzene were detected in the method blank associated with batch 280-151489 at levels that were above the method detection limit but not greater than half the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated samples reported a result above the MDL and/or RL, the result has been “B” flagged.

Styrene exceeded the RPD limit in the MS/MSD performed on sample MW-20. The LCS and LCSD were within control limits.

Method 300.0: Due to high constituent concentration, samples required dilutions prior to analysis. The reporting limits have been elevated accordingly.

Additionally, assigned laboratory flags were considered as part of this data review. Data qualification, if any, related to the laboratory observations are discussed in the following sections.

2. Were sample Chain-of-Custody forms complete?	**X**	Yes		No	AB	Initials
Comments: COC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt.						
3. Were all the analyses requested for the samples on the COCs completed by the laboratory?	**X**	Yes		No	AB	Initials
Comments: All requested analyses as documented on original and revised COC records were completed by the laboratory.						
4. Were samples received in good condition and at the appropriate temperature?	**X**	Yes		No	AB	Initials
Comments: Samples were received on ice, intact, and in good condition with cooler temperatures within the 4°C ± 2°C acceptance range at 2.2°C as noted in the laboratory case narrative.						
5. Were the requested analytical methods in compliance with WP/QAPP, permit, or COC?	**X**	Yes		No	AB	Initials
Comments: Reported methods and target analyte lists were in compliance with COC records.						
6. Were detection limits in accordance with WP/QAPP, permit, or method?	**X**	Yes		No	AB	Initials
Comments: Reported detection limits are achievable by the quoted methods. Some samples required dilution due to high concentrations of target analytes or interference. The reporting limits for diluted results were raised appropriately. **Analytes reported with concentrations below the laboratory reporting limits, but above the laboratory MDLs, were qualified as J to indicate that the concentrations are estimated. The quantitation of analytes with concentrations outside the calibration range of the instrument is inherently less reliable.** Refer to the Table of Qualified Analytical Results (page 4) for a listing of the samples, analytes, and concentrations qualified.						
7. Do the laboratory reports include only those constituents requested to be reported for a specific analytical method?	**X**	Yes		No	AB	Initials
Comments: Reported target analytes were consistent with COC requests and/or with changes made at the request of AECOM.						
8. Were sample holding times met?	**X**	Yes		No	AB	Initials
Comments: Extraction and analytical holding times were met for all samples and analyses with the following notation. Method 8260B: The laboratory noted that the pH of sample INJ-E was 7 indicating the sample had insufficient preservation. No data require qualification based on sample preservation as the sample was analyzed within the shorter 7 day holding time required for an unpreserved sample.						
9. Were correct concentration units reported?	**X**	Yes		No	AB	Initials
Comments: Correct concentration units were reported. The organic method 8260B analytes are reported in units of µg/L (ppb). The inorganic dissolved sulfate analyses are reported in units of mg/L (ppm).						
10. Were the reporting requirements for flagged data met?	**X**	Yes		No	AB	Initials
Comments: Data validation qualifiers override assigned laboratory flags.						

11. Were laboratory blank samples free of target analyte contamination?		Yes	**X**	No	AB	Initials
Comments: All laboratory blanks were free of target analyte contamination with the following exceptions. **<u>Method 8260B</u>: The laboratory blank sample associated with laboratory batch 280-151489 reported naphthalene at 0.257 µg/L and 1,2,3-trichlorobenzene at 0.213 µg/L. Naphthalene was also detected in samples INJ-N, MW-18 and MW-22; and 1,2,3-trichlorobenzene was also detected in sample MW-18 with concentrations less than the reporting limits. These analytes have been qualified as U at the reporting limits in these samples to indicate they were evaluated to be undetected at the reporting limit and that the result below the reporting limit is considered to be a false positive due to laboratory contamination.** Refer to the Table of Qualified Analytical Results (page 4) for a listing of the samples, analytes, and concentrations qualified.						
12. Were trip blank, field blank, and/or equipment rinse blank samples free of target analyte contamination?	**X**	Yes		No	AB	Initials
Comments: There were no target analytes detected in the trip blank sample.						
13. Were instrument calibrations within method control limits?	**X**	Yes		No	AB	Initials
Comments: Instrument calibrations for organic method 8260B analyses were within data validation and/or method specified criteria, or else noncompliant calibrations were not associated with reported sample results. The frequency of instrument calibrations was sufficient for the reported method. Initial instrument calibrations had averaged relative standard deviations for all target compounds $\leq$15% or maintained a linear fit with regression coefficient values of >0.99. All relative response factors (RRFs) for target compounds were above the lower limits specified in the National Functional Guidelines for Organic Data Review.						
14. Were surrogate recoveries within control limits?	**X**	Yes		No	AB	Initials
Comments: Surrogate percent recoveries (%Rs) for organic analyses were within data validation QC criteria for all samples.						
15. Were laboratory control sample recoveries within control limits?		Yes	**X**	No	AB	Initials
Comments: LCS and LCSD (blank spike) recoveries were within data validation or laboratory control-charted QC limits for all target analytes.						
16. Were matrix spike recoveries within control limits?	**X**	Yes		No	AB	Initials
Comments: Project specific MS and MSD recoveries for target analytes were within data validation QC limits, except as noted below. MS and MSD spike recoveries for non-project samples were not considered since matrix similarity to project samples could not be guaranteed.						
17. Were RPDs within control limits?		Yes	**X**	No	AB	Initials
Comments: Laboratory RPDs for target analytes in LCS/LCSD and project-specific MS/MSD samples were within data validation control limits with the exception noted below. All laboratory duplicate samples met data validation RPD criteria. Laboratory duplicates for non-project samples were not considered since matrix similarity to project samples could not be guaranteed. <u>Method 8260B</u>: For the MS/MSD performed on sample MW-20, the RPD for styrene was outside the <20% laboratory QC limits at 26%. As this analyte was not detected and both the MS and MSD %Rs were within QC limits, no data require qualification based on this RPD outlier.						
18. Were organic system performance criteria met?	**X**	Yes		No	AB	Initials
Comments: GC/MS method 8260B BFB tunes were within ion abundance and 12-hour clock method criteria for all analytical sequences.						

19. Were internal standards within method criteria for GC/MS sample analyses?	X	Yes		No	AB	Initials
Comments: Internal standards were within method criteria for all GC/MS samples and analyses.						
20. Were inorganic system performance criteria met?	X	Yes		No	AB	Initials
Comments: System performance checks were within method criteria for all analyses. Duplicate results were ± the detection limit.						
21. Were blind field duplicates collected? If so, discuss the precision (RPD) of the results.	X	Yes		No	AB	Initials

Duplicate Sample No.	DUP-1	Primary Sample No.	MW-17

Comments: The RPDs for the duplicates were within the 0-30% data validation QC limits for water samples, or RPDs were not applicable due to results that were ± the detection limit or were undetected in both samples as indicated in the table below. Field duplicate and native sample concentrations that were both undetected are not reflected in the table below since RPDs are not applicable.

The following RPDs were calculated:

Method	Analyte	MW-17	DUP-1	RPD	Qualifier	Samp RL	Dup RL	Units
E300	Sulfate	840	840	0.00		100	100	mg/l
8260B	1,2,4-Trimethylbenzene	1.1	1.1	0.00		4.0	4.0	ug/l
8260B	1,3,5-Trimethylbenzene	4.5	4.1	9.30		4.0	4.0	ug/l
8260B	4-Isopropyltoluene	1.2	1.2	0.00		4.0	4.0	ug/l
8260B	Benzene	89	85	4.60		4.0	4.0	ug/l
8260B	Ethylbenzene	5.4	5.1	5.71		4.0	4.0	ug/l
8260B	Methylene Chloride	5.0	9.2	59.15	<2XRL	8.0	8.0	ug/l
8260B	m-Xylene & p-Xylene	11	9.7	12.56		8.0	8.0	ug/l
8260B	n-Butylbenzene	1.5	1.5	0.00		4.0	4.0	ug/l
8260B	o-Xylene	0.98	0.76	25.29		4.0	4.0	ug/l
8260B	Toluene	2.8	2.6	7.41		4.0	4.0	ug/l
8260B	Xylenes, Total	12	10	18.18		8.0	8.0	ug/l

No data require qualification based on the field duplicate RPDs.

22. Were qualitative criteria for organic target analyte identification met?	X	Yes		No	AB	Initials
Comments: Retention times and chromatography were reviewed by trained laboratory personnel in accordance with the laboratory's internal QA/QC program. No data outliers were noted, therefore, further review of sample chromatograms during data validation was not required.						
23. Were 100% of the EDD concentrations and reporting limits compared to the hardcopy data reports?	X	Yes		No	AB	Initials
Comments: There were no discrepancies between the EDD concentrations and reporting limits and the hardcopy data reports. Qualifiers and reason codes were added to the EDD. The sampled time for the blind field duplicate sample was changed to match the time of collection of the primary sample. The edited EDD files were returned to the AECOM project manager with this data validation report 02/11/2013.						

24. General Comments: Data were evaluated based on validation criteria set forth in the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review*, document number USEPA-540-R-08-01, June 2008 with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, document number EPA 540/R-99-008 of October 1999, and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, document number USEPA-540-R-10-011 of January 2010 with additional reference to *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review*, document number EPA 540-R-04-004 of October 2004, as they applied to the reported methodology. Field duplicate RPD control limits were taken from the USEPA Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1996.

Refer to the Table of Qualified Analytical Results (page 4) for a listing of the samples, analytes, and concentrations qualified.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-36712-1

Job Description: MAVERICK / FARMINGTON, NM

For:
AECOM, Inc.
1601 Prospect Parkway
Fort Collins, CO 80525

Attention: Ms. Ann Biegelsen



Approved for release.
Kae E Yoder
Project Manager II
12/19/2012 2:57 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
12/19/2012

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Data Qualifiers 5

Sample Summary 6

Executive Summary 7

Method Summary 10

Method / Analyst Summary 11

Sample Datasheets 12

Surrogate Summary 48

QC Data Summary 49

QC Association Summary 64

Lab Chronicle 65

Manual Integration Summary 70

Organic Sample Data 72

GC/MS VOA 72

Method 8260B 72

Method 8260B QC Summary 73

Method 8260B Sample Data 87

Standards Data 255

Method 8260B ICAL Data 255

Method 8260B CCAL Data 315

Raw QC Data 345

Method 8260B Tune Data 345

Method 8260B Blank Data 354

Method 8260B LCS/LCSD Data 364

Table of Contents

Method 8260B MS/MSD Data 378

Method 8260B Run Logs 390

Inorganic Sample Data 411

General Chemistry Data 411

Gen Chem Cover Page 412

Gen Chem Sample Data 413

Gen Chem QC Data 419

Gen Chem ICV/CCV 419

Gen Chem Blanks 420

Gen Chem MS/MSD/PDS 421

Gen Chem Duplicates 423

Gen Chem LCS/LCSD 424

Gen Chem MDL 427

Gen Chem Analysis Run Log 429

Gen Chem Raw Data 431

Gen Chem Prep Data 514

Shipping and Receiving Documents 515

Client Chain of Custody 516

Sample Receipt Checklist 520

CASE NARRATIVE

Client: AECOM, Inc.

Project: MAVERICK / FARMINGTON, NM

Report Number: 280-36712-1

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

Results between the method detection limit (MDL) and reporting limit (RL) are flagged with a "J" qualifier to indicate an estimated value. These results are statistically less reliable than results greater than or equal to the RL and should be considered a qualitative value.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/6/2012 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

Chain-of-custody 170336 does not request Dissolved Sulfate analysis for sample MW-17; however, a container labeled MW-17 requesting Dissolved Sulfate analysis was received at the laboratory. As instructed by the client on 12/11/2012, sample MW-17 was logged for Dissolved Sulfate analysis. A revised chain-of-custody was received via email transmission on 12/11/2012, and has been included.

GC/MS VOLATILES - SW846 8260B

In some cases, due to high concentrations of target analytes, samples had to be analyzed using reduced aliquot sizes. The reporting limits have been elevated accordingly.

Sample INJ-E was received at the laboratory with insufficient preservation measuring a pH of 7. If samples are not preserved to a pH of 2.0 and analyses are performed outside a 7 day holding time, experimental evidence suggests that some aromatic compounds in wastewater samples, notably benzene, toluene, and ethylbenzene are susceptible to biological degradation. The sample was analyzed within 7 days of sample collection.

Naphthalene and 1,2,3-Trichlorobenzene were detected in the method blank associated with batch 280-151489 at levels that were above the method detection limit but not greater than half the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated samples reported a result above the MDL and/or RL, the result has been “B” flagged.

Styrene exceeded the RPD limit in the MS/MSD performed on sample MW-20. The LCS and LCSD were within control limits.

No other anomalies were encountered.

DISSOLVED SULFATE - MCAWW 300.0

Due to high constituent concentration, samples required dilutions prior to analysis. The reporting limits have been elevated accordingly.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: AECOM, Inc. Job Number: 280-36712-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

SAMPLE SUMMARY

Client: AECOM, Inc. Job Number: 280-36712-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-36712-1	MW-18	Water	12/04/2012 1320	12/06/2012 0930
280-36712-2	MW-22	Water	12/04/2012 1405	12/06/2012 0930
280-36712-3	MW-21	Water	12/04/2012 1450	12/06/2012 0930
280-36712-4	MW-20	Water	12/04/2012 1530	12/06/2012 0930
280-36712-5	MW-10	Water	12/04/2012 1615	12/06/2012 0930
280-36712-6	MW-19	Water	12/05/2012 0850	12/06/2012 0930
280-36712-7	MW-9	Water	12/05/2012 0935	12/06/2012 0930
280-36712-8	MW-16	Water	12/05/2012 1015	12/06/2012 0930
280-36712-9	MW-17	Water	12/05/2012 1100	12/06/2012 0930
280-36712-10	INJ-W	Water	12/05/2012 1140	12/06/2012 0930
280-36712-11	INJ-S	Water	12/05/2012 1215	12/06/2012 0930
280-36712-12	INJ-E	Water	12/05/2012 1250	12/06/2012 0930
280-36712-13	INJ-N	Water	12/05/2012 1330	12/06/2012 0930
280-36712-14FD	DUP-1	Water	12/05/2012 0000	12/06/2012 0930
280-36712-15TB	TRIP BLANK	Water	12/04/2012 1320	12/06/2012 0930

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc. Job Number: 280-36712-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36712-1	**MW-18**					
Naphthalene		0.23	J B	1.0	ug/L	8260B
sec-Butylbenzene		0.27	J	1.0	ug/L	8260B
tert-Butylbenzene		0.73	J	1.0	ug/L	8260B
1,2,3-Trichlorobenzene		0.22	J B	1.0	ug/L	8260B
280-36712-2	**MW-22**					
Benzene		4.1		1.0	ug/L	8260B
Ethylbenzene		2.8		1.0	ug/L	8260B
Isopropylbenzene		1.5		1.0	ug/L	8260B
4-Isopropyltoluene		0.28	J	1.0	ug/L	8260B
Naphthalene		0.23	J B	1.0	ug/L	8260B
n-Butylbenzene		1.1		1.0	ug/L	8260B
n-Propylbenzene		4.4		1.0	ug/L	8260B
sec-Butylbenzene		3.2		1.0	ug/L	8260B
tert-Butylbenzene		0.35	J	1.0	ug/L	8260B
1,2,4-Trimethylbenzene		0.83	J	1.0	ug/L	8260B
1,3,5-Trimethylbenzene		0.48	J	1.0	ug/L	8260B
280-36712-4	**MW-20**					
Acetone		1.9	J	10	ug/L	8260B
280-36712-9	**MW-17**					
Benzene		85		4.0	ug/L	8260B
Ethylbenzene		5.1		4.0	ug/L	8260B
4-Isopropyltoluene		1.2	J	4.0	ug/L	8260B
Methylene Chloride		9.2		8.0	ug/L	8260B
m-Xylene & p-Xylene		9.7		8.0	ug/L	8260B
n-Butylbenzene		1.5	J	4.0	ug/L	8260B
o-Xylene		0.76	J	4.0	ug/L	8260B
Toluene		2.6	J	4.0	ug/L	8260B
1,2,4-Trimethylbenzene		1.1	J	4.0	ug/L	8260B
1,3,5-Trimethylbenzene		4.1		4.0	ug/L	8260B
Xylenes, Total		10		8.0	ug/L	8260B
Dissolved						
Sulfate-Dissolved		840		100	mg/L	300.0

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc. Job Number: 280-36712-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36712-10	**INJ-W**					
Acetone		19000		2000	ug/L	8260B
2-Butanone (MEK)		10000		1200	ug/L	8260B
Methylene Chloride		270	J	400	ug/L	8260B
Dissolved						
Sulfate-Dissolved		670		100	mg/L	300.0
280-36712-11	**INJ-S**					
Acetone		3600		1000	ug/L	8260B
2-Butanone (MEK)		2100		600	ug/L	8260B
Methylene Chloride		78	J	200	ug/L	8260B
Dissolved						
Sulfate-Dissolved		510		100	mg/L	300.0
280-36712-12	**INJ-E**					
Acetone		160		10	ug/L	8260B
Benzene		0.20	J	1.0	ug/L	8260B
Bromodichloromethane		0.95	J	1.0	ug/L	8260B
2-Butanone (MEK)		81		6.0	ug/L	8260B
Dibromochloromethane		0.29	J	1.0	ug/L	8260B
Chloroform		2.4		1.0	ug/L	8260B
1,2-Dichloroethane		0.20	J	1.0	ug/L	8260B
Ethylbenzene		0.36	J	1.0	ug/L	8260B
m-Xylene & p-Xylene		1.2	J	2.0	ug/L	8260B
o-Xylene		0.20	J	1.0	ug/L	8260B
Toluene		0.36	J	1.0	ug/L	8260B
1,2,4-Trimethylbenzene		0.78	J	1.0	ug/L	8260B
1,3,5-Trimethylbenzene		0.48	J	1.0	ug/L	8260B
Xylenes, Total		1.4	J	2.0	ug/L	8260B
Dissolved						
Sulfate-Dissolved		530		100	mg/L	300.0

EXECUTIVE SUMMARY - Detections

Client: AECOM, Inc. Job Number: 280-36712-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-36712-13	**INJ-N**					
Acetone		1900		100	ug/L	8260B
Benzene		68		10	ug/L	8260B
2-Butanone (MEK)		1200		60	ug/L	8260B
1,2-Dichloroethane		36		10	ug/L	8260B
Ethylbenzene		39		10	ug/L	8260B
Isopropylbenzene		2.5	J	10	ug/L	8260B
Methylene Chloride		21		20	ug/L	8260B
m-Xylene & p-Xylene		210		20	ug/L	8260B
Naphthalene		7.6	J B	10	ug/L	8260B
n-Propylbenzene		6.0	J	10	ug/L	8260B
o-Xylene		71		10	ug/L	8260B
Toluene		71		10	ug/L	8260B
1,2,4-Trimethylbenzene		48		10	ug/L	8260B
1,3,5-Trimethylbenzene		22		10	ug/L	8260B
Xylenes, Total		280		20	ug/L	8260B
Dissolved						
Sulfate-Dissolved		1000		250	mg/L	300.0
280-36712-14FD	**DUP-1**					
Benzene		89		4.0	ug/L	8260B
Ethylbenzene		5.4		4.0	ug/L	8260B
4-Isopropyltoluene		1.2	J	4.0	ug/L	8260B
Methylene Chloride		5.0	J	8.0	ug/L	8260B
m-Xylene & p-Xylene		11		8.0	ug/L	8260B
n-Butylbenzene		1.5	J	4.0	ug/L	8260B
o-Xylene		0.98	J	4.0	ug/L	8260B
Toluene		2.8	J	4.0	ug/L	8260B
1,2,4-Trimethylbenzene		1.1	J	4.0	ug/L	8260B
1,3,5-Trimethylbenzene		4.5		4.0	ug/L	8260B
Xylenes, Total		12		8.0	ug/L	8260B
Dissolved						
Sulfate-Dissolved		840		100	mg/L	300.0

METHOD SUMMARY

Client: AECOM, Inc. Job Number: 280-36712-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL DEN = TestAmerica Denver

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: AECOM, Inc. Job Number: 280-36712-1

Method	Analyst	Analyst ID
SW846 8260B	Meier, Greg P	GPM
MCAWW 300.0	Kudla, Ewa	EK

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-18**

Lab Sample ID: 280-36712-1 Date Sampled: 12/04/2012 1320
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9100.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0914			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0914				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.23	J B	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-18**

Lab Sample ID: 280-36712-1 Date Sampled: 12/04/2012 1320
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9100.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0914			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0914				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.27	J	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.73	J	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.22	J B	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	108		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	95		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-22**

Lab Sample ID: 280-36712-2 Date Sampled: 12/04/2012 1405
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9101.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0936			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0936				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	4.1		0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	2.8		0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	1.5		0.19	1.0
4-Isopropyltoluene	0.28	J	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.23	J B	0.22	1.0
n-Butylbenzene	1.1		0.32	1.0
n-Propylbenzene	4.4		0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-22**

Lab Sample ID: 280-36712-2 Date Sampled: 12/04/2012 1405
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9101.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0936			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0936				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	3.2		0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.35	J	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.83	J	0.15	1.0
1,3,5-Trimethylbenzene	0.48	J	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
Toluene-d8 (Surr)	95		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-21**

Lab Sample ID: 280-36712-3 Date Sampled: 12/04/2012 1450
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9102.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0958			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0958				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-21**

Lab Sample ID: 280-36712-3 Date Sampled: 12/04/2012 1450
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9102.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0958			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0958				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
Toluene-d8 (Surr)	103		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-36712-4 Date Sampled: 12/04/2012 1530
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9097.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0807			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0807				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	J	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-20**

Lab Sample ID: 280-36712-4 Date Sampled: 12/04/2012 1530
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9097.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0807			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0807				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	99		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-10**

Lab Sample ID: 280-36712-5 Date Sampled: 12/04/2012 1615
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9103.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1021			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1021				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-10**

Lab Sample ID: 280-36712-5 Date Sampled: 12/04/2012 1615
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9103.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1021			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1021				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	99		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-19**

Lab Sample ID: 280-36712-6 Date Sampled: 12/05/2012 0850
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9104.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1043			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1043				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-19**

Lab Sample ID: 280-36712-6 Date Sampled: 12/05/2012 0850
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9104.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1043			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1043				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	99		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-9**

Lab Sample ID: 280-36712-7 Date Sampled: 12/05/2012 0935
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9105.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1105			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-9**

Lab Sample ID: 280-36712-7 Date Sampled: 12/05/2012 0935
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9105.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1105			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1105				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	97		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-16**

Lab Sample ID: 280-36712-8 Date Sampled: 12/05/2012 1015
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9106.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1127			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1127				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-16**

Lab Sample ID: 280-36712-8 Date Sampled: 12/05/2012 1015
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9106.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1127			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1127				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
Toluene-d8 (Surr)	104		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-17**

Lab Sample ID: 280-36712-9 Date Sampled: 12/05/2012 1100
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9113.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1404			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1404				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.6	U	7.6	40
Benzene	85		0.64	4.0
Bromobenzene	0.68	U	0.68	4.0
Bromodichloromethane	0.68	U	0.68	4.0
Bromoform	0.76	U	0.76	4.0
Bromomethane	0.84	U	0.84	8.0
2-Butanone (MEK)	8.0	U	8.0	24
Carbon tetrachloride	0.76	U	0.76	4.0
Chlorobenzene	0.68	U	0.68	4.0
Bromochloromethane	0.40	U	0.40	4.0
Dibromochloromethane	0.68	U	0.68	4.0
Chloroethane	1.6	U	1.6	8.0
Chloroform	0.64	U	0.64	4.0
Chloromethane	1.2	U	1.2	8.0
2-Chlorotoluene	0.68	U	0.68	4.0
4-Chlorotoluene	0.84	U	0.84	4.0
cis-1,2-Dichloroethene	0.60	U	0.60	4.0
cis-1,3-Dichloropropene	0.64	U	0.64	4.0
1,2-Dibromo-3-Chloropropane	1.9	U	1.9	20
1,2-Dibromoethane (EDB)	0.72	U	0.72	4.0
Dibromomethane	0.68	U	0.68	4.0
1,2-Dichlorobenzene	0.60	U	0.60	4.0
1,3-Dichlorobenzene	0.52	U	0.52	4.0
1,4-Dichlorobenzene	0.64	U	0.64	4.0
Dichlorodifluoromethane	1.2	U	1.2	8.0
1,1-Dichloroethane	0.88	U	0.88	4.0
1,2-Dichloroethane	0.52	U	0.52	4.0
1,1-Dichloroethene	0.92	U	0.92	4.0
1,2-Dichloroethene, Total	0.96	U	0.96	4.0
1,2-Dichloropropane	0.72	U	0.72	4.0
1,3-Dichloropropane	0.88	U	0.88	4.0
2,2-Dichloropropane	0.72	U	0.72	4.0
1,1-Dichloropropene	0.76	U	0.76	4.0
Ethylbenzene	5.1		0.64	4.0
Hexachlorobutadiene	1.4	U	1.4	4.0
2-Hexanone	6.8	U	6.8	20
Isopropylbenzene	0.76	U	0.76	4.0
4-Isopropyltoluene	1.2	J	0.80	4.0
Methylene Chloride	9.2		1.3	8.0
4-Methyl-2-pentanone	3.9	U	3.9	20
Methyl tert-butyl ether	1.0	U	1.0	20
m-Xylene & p-Xylene	9.7		1.4	8.0
Naphthalene	0.88	U	0.88	4.0
n-Butylbenzene	1.5	J	1.3	4.0
n-Propylbenzene	0.64	U	0.64	4.0
o-Xylene	0.76	J	0.76	4.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **MW-17**

Lab Sample ID: 280-36712-9 Date Sampled: 12/05/2012 1100
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9113.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1404			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1404				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.68	U	0.68	4.0
Styrene	0.68	U	0.68	4.0
tert-Butylbenzene	0.64	U	0.64	4.0
1,1,1,2-Tetrachloroethane	0.84	U	0.84	4.0
1,1,2,2-Tetrachloroethane	0.84	U	0.84	4.0
Tetrachloroethene	0.80	U	0.80	4.0
Toluene	2.6	J	0.68	4.0
trans-1,2-Dichloroethene	0.60	U	0.60	4.0
trans-1,3-Dichloropropene	0.76	U	0.76	12
1,2,3-Trichlorobenzene	0.84	U	0.84	4.0
1,2,4-Trichlorobenzene	0.84	U	0.84	4.0
1,1,1-Trichloroethane	0.64	U	0.64	4.0
1,1,2-Trichloroethane	1.1	U	1.1	4.0
Trichloroethene	0.64	U	0.64	4.0
Trichlorofluoromethane	1.2	U	1.2	8.0
1,2,3-Trichloropropane	1.3	U	1.3	10
1,2,4-Trimethylbenzene	1.1	J	0.60	4.0
1,3,5-Trimethylbenzene	4.1		0.64	4.0
Vinyl chloride	0.40	U	0.40	4.0
Xylenes, Total	10		0.76	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120
1,2-Dichloroethane-d4 (Surr)	109		70 - 127
Toluene-d8 (Surr)	104		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **INJ-W**

Lab Sample ID: 280-36712-10 Date Sampled: 12/05/2012 1140
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9110.D
Dilution:	1.0			Initial Weight/Volume:	0.1 mL
Analysis Date:	12/11/2012 1257			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1257				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	19000		380	2000
Benzene	32	U	32	200
Bromobenzene	34	U	34	200
Bromodichloromethane	34	U	34	200
Bromoform	38	U	38	200
Bromomethane	42	U	42	400
2-Butanone (MEK)	10000		400	1200
Carbon tetrachloride	38	U	38	200
Chlorobenzene	34	U	34	200
Bromochloromethane	20	U	20	200
Dibromochloromethane	34	U	34	200
Chloroethane	82	U	82	400
Chloroform	32	U	32	200
Chloromethane	60	U	60	400
2-Chlorotoluene	34	U	34	200
4-Chlorotoluene	42	U	42	200
cis-1,2-Dichloroethene	30	U	30	200
cis-1,3-Dichloropropene	32	U	32	200
1,2-Dibromo-3-Chloropropane	94	U	94	1000
1,2-Dibromoethane (EDB)	36	U	36	200
Dibromomethane	34	U	34	200
1,2-Dichlorobenzene	30	U	30	200
1,3-Dichlorobenzene	26	U	26	200
1,4-Dichlorobenzene	32	U	32	200
Dichlorodifluoromethane	62	U	62	400
1,1-Dichloroethane	44	U	44	200
1,2-Dichloroethane	26	U	26	200
1,1-Dichloroethene	46	U	46	200
1,2-Dichloroethene, Total	48	U	48	200
1,2-Dichloropropane	36	U	36	200
1,3-Dichloropropane	44	U	44	200
2,2-Dichloropropane	36	U	36	200
1,1-Dichloropropene	38	U	38	200
Ethylbenzene	32	U	32	200
Hexachlorobutadiene	72	U	72	200
2-Hexanone	340	U	340	1000
Isopropylbenzene	38	U	38	200
4-Isopropyltoluene	40	U	40	200
Methylene Chloride	270	J	64	400
4-Methyl-2-pentanone	200	U	200	1000
Methyl tert-butyl ether	50	U	50	1000
m-Xylene & p-Xylene	68	U	68	400
Naphthalene	44	U	44	200
n-Butylbenzene	64	U	64	200
n-Propylbenzene	32	U	32	200
o-Xylene	38	U	38	200

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **INJ-W**

Lab Sample ID: 280-36712-10 Date Sampled: 12/05/2012 1140
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9110.D
Dilution:	1.0			Initial Weight/Volume:	0.1 mL
Analysis Date:	12/11/2012 1257			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1257				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	34	U	34	200
Styrene	34	U	34	200
tert-Butylbenzene	32	U	32	200
1,1,1,2-Tetrachloroethane	42	U	42	200
1,1,2,2-Tetrachloroethane	42	U	42	200
Tetrachloroethene	40	U	40	200
Toluene	34	U	34	200
trans-1,2-Dichloroethene	30	U	30	200
trans-1,3-Dichloropropene	38	U	38	600
1,2,3-Trichlorobenzene	42	U	42	200
1,2,4-Trichlorobenzene	42	U	42	200
1,1,1-Trichloroethane	32	U	32	200
1,1,2-Trichloroethane	54	U	54	200
Trichloroethene	32	U	32	200
Trichlorofluoromethane	58	U	58	400
1,2,3-Trichloropropane	66	U	66	500
1,2,4-Trimethylbenzene	30	U	30	200
1,3,5-Trimethylbenzene	32	U	32	200
Vinyl chloride	20	U	20	200
Xylenes, Total	38	U	38	400

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	100		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **INJ-S**

Lab Sample ID: 280-36712-11 Date Sampled: 12/05/2012 1215
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9111.D
Dilution:	1.0			Initial Weight/Volume:	0.2 mL
Analysis Date:	12/11/2012 1319			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1319				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	3600		190	1000
Benzene	16	U	16	100
Bromobenzene	17	U	17	100
Bromodichloromethane	17	U	17	100
Bromoform	19	U	19	100
Bromomethane	21	U	21	200
2-Butanone (MEK)	2100		200	600
Carbon tetrachloride	19	U	19	100
Chlorobenzene	17	U	17	100
Bromochloromethane	10	U	10	100
Dibromochloromethane	17	U	17	100
Chloroethane	41	U	41	200
Chloroform	16	U	16	100
Chloromethane	30	U	30	200
2-Chlorotoluene	17	U	17	100
4-Chlorotoluene	21	U	21	100
cis-1,2-Dichloroethene	15	U	15	100
cis-1,3-Dichloropropene	16	U	16	100
1,2-Dibromo-3-Chloropropane	47	U	47	500
1,2-Dibromoethane (EDB)	18	U	18	100
Dibromomethane	17	U	17	100
1,2-Dichlorobenzene	15	U	15	100
1,3-Dichlorobenzene	13	U	13	100
1,4-Dichlorobenzene	16	U	16	100
Dichlorodifluoromethane	31	U	31	200
1,1-Dichloroethane	22	U	22	100
1,2-Dichloroethane	13	U	13	100
1,1-Dichloroethene	23	U	23	100
1,2-Dichloroethene, Total	24	U	24	100
1,2-Dichloropropane	18	U	18	100
1,3-Dichloropropane	22	U	22	100
2,2-Dichloropropane	18	U	18	100
1,1-Dichloropropene	19	U	19	100
Ethylbenzene	16	U	16	100
Hexachlorobutadiene	36	U	36	100
2-Hexanone	170	U	170	500
Isopropylbenzene	19	U	19	100
4-Isopropyltoluene	20	U	20	100
Methylene Chloride	78	J	32	200
4-Methyl-2-pentanone	98	U	98	500
Methyl tert-butyl ether	25	U	25	500
m-Xylene & p-Xylene	34	U	34	200
Naphthalene	22	U	22	100
n-Butylbenzene	32	U	32	100
n-Propylbenzene	16	U	16	100
o-Xylene	19	U	19	100

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **INJ-S**

Lab Sample ID: 280-36712-11 Date Sampled: 12/05/2012 1215
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9111.D
Dilution:	1.0			Initial Weight/Volume:	0.2 mL
Analysis Date:	12/11/2012 1319			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1319				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	17	U	17	100
Styrene	17	U	17	100
tert-Butylbenzene	16	U	16	100
1,1,1,2-Tetrachloroethane	21	U	21	100
1,1,2,2-Tetrachloroethane	21	U	21	100
Tetrachloroethene	20	U	20	100
Toluene	17	U	17	100
trans-1,2-Dichloroethene	15	U	15	100
trans-1,3-Dichloropropene	19	U	19	300
1,2,3-Trichlorobenzene	21	U	21	100
1,2,4-Trichlorobenzene	21	U	21	100
1,1,1-Trichloroethane	16	U	16	100
1,1,2-Trichloroethane	27	U	27	100
Trichloroethene	16	U	16	100
Trichlorofluoromethane	29	U	29	200
1,2,3-Trichloropropane	33	U	33	250
1,2,4-Trimethylbenzene	15	U	15	100
1,3,5-Trimethylbenzene	16	U	16	100
Vinyl chloride	10	U	10	100
Xylenes, Total	19	U	19	200

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	101		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **INJ-E**

Lab Sample ID: 280-36712-12 Date Sampled: 12/05/2012 1250
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9108.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1212			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1212				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	160		1.9	10
Benzene	0.20	J	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.95	J	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	81		2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.29	J	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	2.4		0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.20	J	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.36	J	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	1.2	J	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.20	J	0.19	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **INJ-E**

Lab Sample ID: 280-36712-12 Date Sampled: 12/05/2012 1250
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9108.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 1212			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1212				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.36	J	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.78	J	0.15	1.0
1,3,5-Trimethylbenzene	0.48	J	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	1.4	J	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	105		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **INJ-N**

Lab Sample ID: 280-36712-13 Date Sampled: 12/05/2012 1330
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9112.D
Dilution:	1.0			Initial Weight/Volume:	2 mL
Analysis Date:	12/11/2012 1342			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1900		19	100
Benzene	68		1.6	10
Bromobenzene	1.7	U	1.7	10
Bromodichloromethane	1.7	U	1.7	10
Bromoform	1.9	U	1.9	10
Bromomethane	2.1	U	2.1	20
2-Butanone (MEK)	1200		20	60
Carbon tetrachloride	1.9	U	1.9	10
Chlorobenzene	1.7	U	1.7	10
Bromochloromethane	1.0	U	1.0	10
Dibromochloromethane	1.7	U	1.7	10
Chloroethane	4.1	U	4.1	20
Chloroform	1.6	U	1.6	10
Chloromethane	3.0	U	3.0	20
2-Chlorotoluene	1.7	U	1.7	10
4-Chlorotoluene	2.1	U	2.1	10
cis-1,2-Dichloroethene	1.5	U	1.5	10
cis-1,3-Dichloropropene	1.6	U	1.6	10
1,2-Dibromo-3-Chloropropane	4.7	U	4.7	50
1,2-Dibromoethane (EDB)	1.8	U	1.8	10
Dibromomethane	1.7	U	1.7	10
1,2-Dichlorobenzene	1.5	U	1.5	10
1,3-Dichlorobenzene	1.3	U	1.3	10
1,4-Dichlorobenzene	1.6	U	1.6	10
Dichlorodifluoromethane	3.1	U	3.1	20
1,1-Dichloroethane	2.2	U	2.2	10
1,2-Dichloroethane	36		1.3	10
1,1-Dichloroethene	2.3	U	2.3	10
1,2-Dichloroethene, Total	2.4	U	2.4	10
1,2-Dichloropropane	1.8	U	1.8	10
1,3-Dichloropropane	2.2	U	2.2	10
2,2-Dichloropropane	1.8	U	1.8	10
1,1-Dichloropropene	1.9	U	1.9	10
Ethylbenzene	39		1.6	10
Hexachlorobutadiene	3.6	U	3.6	10
2-Hexanone	17	U	17	50
Isopropylbenzene	2.5	J	1.9	10
4-Isopropyltoluene	2.0	U	2.0	10
Methylene Chloride	21		3.2	20
4-Methyl-2-pentanone	9.8	U	9.8	50
Methyl tert-butyl ether	2.5	U	2.5	50
m-Xylene & p-Xylene	210		3.4	20
Naphthalene	7.6	J B	2.2	10
n-Butylbenzene	3.2	U	3.2	10
n-Propylbenzene	6.0	J	1.6	10
o-Xylene	71		1.9	10

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **INJ-N**

Lab Sample ID: 280-36712-13 Date Sampled: 12/05/2012 1330
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9112.D
Dilution:	1.0			Initial Weight/Volume:	2 mL
Analysis Date:	12/11/2012 1342			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1342				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	1.7	U	1.7	10
Styrene	1.7	U	1.7	10
tert-Butylbenzene	1.6	U	1.6	10
1,1,1,2-Tetrachloroethane	2.1	U	2.1	10
1,1,2,2-Tetrachloroethane	2.1	U	2.1	10
Tetrachloroethene	2.0	U	2.0	10
Toluene	71		1.7	10
trans-1,2-Dichloroethene	1.5	U	1.5	10
trans-1,3-Dichloropropene	1.9	U	1.9	30
1,2,3-Trichlorobenzene	2.1	U	2.1	10
1,2,4-Trichlorobenzene	2.1	U	2.1	10
1,1,1-Trichloroethane	1.6	U	1.6	10
1,1,2-Trichloroethane	2.7	U	2.7	10
Trichloroethene	1.6	U	1.6	10
Trichlorofluoromethane	2.9	U	2.9	20
1,2,3-Trichloropropane	3.3	U	3.3	25
1,2,4-Trimethylbenzene	48		1.5	10
1,3,5-Trimethylbenzene	22		1.6	10
Vinyl chloride	1.0	U	1.0	10
Xylenes, Total	280		1.9	20

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120
1,2-Dichloroethane-d4 (Surr)	100		70 - 127
Toluene-d8 (Surr)	102		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **DUP-1**

Lab Sample ID: 280-36712-14FD Date Sampled: 12/05/2012 0000
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9114.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1426			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1426				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	7.6	U	7.6	40
Benzene	89		0.64	4.0
Bromobenzene	0.68	U	0.68	4.0
Bromodichloromethane	0.68	U	0.68	4.0
Bromoform	0.76	U	0.76	4.0
Bromomethane	0.84	U	0.84	8.0
2-Butanone (MEK)	8.0	U	8.0	24
Carbon tetrachloride	0.76	U	0.76	4.0
Chlorobenzene	0.68	U	0.68	4.0
Bromochloromethane	0.40	U	0.40	4.0
Dibromochloromethane	0.68	U	0.68	4.0
Chloroethane	1.6	U	1.6	8.0
Chloroform	0.64	U	0.64	4.0
Chloromethane	1.2	U	1.2	8.0
2-Chlorotoluene	0.68	U	0.68	4.0
4-Chlorotoluene	0.84	U	0.84	4.0
cis-1,2-Dichloroethene	0.60	U	0.60	4.0
cis-1,3-Dichloropropene	0.64	U	0.64	4.0
1,2-Dibromo-3-Chloropropane	1.9	U	1.9	20
1,2-Dibromoethane (EDB)	0.72	U	0.72	4.0
Dibromomethane	0.68	U	0.68	4.0
1,2-Dichlorobenzene	0.60	U	0.60	4.0
1,3-Dichlorobenzene	0.52	U	0.52	4.0
1,4-Dichlorobenzene	0.64	U	0.64	4.0
Dichlorodifluoromethane	1.2	U	1.2	8.0
1,1-Dichloroethane	0.88	U	0.88	4.0
1,2-Dichloroethane	0.52	U	0.52	4.0
1,1-Dichloroethene	0.92	U	0.92	4.0
1,2-Dichloroethene, Total	0.96	U	0.96	4.0
1,2-Dichloropropane	0.72	U	0.72	4.0
1,3-Dichloropropane	0.88	U	0.88	4.0
2,2-Dichloropropane	0.72	U	0.72	4.0
1,1-Dichloropropene	0.76	U	0.76	4.0
Ethylbenzene	5.4		0.64	4.0
Hexachlorobutadiene	1.4	U	1.4	4.0
2-Hexanone	6.8	U	6.8	20
Isopropylbenzene	0.76	U	0.76	4.0
4-Isopropyltoluene	1.2	J	0.80	4.0
Methylene Chloride	5.0	J	1.3	8.0
4-Methyl-2-pentanone	3.9	U	3.9	20
Methyl tert-butyl ether	1.0	U	1.0	20
m-Xylene & p-Xylene	11		1.4	8.0
Naphthalene	0.88	U	0.88	4.0
n-Butylbenzene	1.5	J	1.3	4.0
n-Propylbenzene	0.64	U	0.64	4.0
o-Xylene	0.98	J	0.76	4.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **DUP-1**

Lab Sample ID: 280-36712-14FD Date Sampled: 12/05/2012 0000
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9114.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/11/2012 1426			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 1426				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.68	U	0.68	4.0
Styrene	0.68	U	0.68	4.0
tert-Butylbenzene	0.64	U	0.64	4.0
1,1,1,2-Tetrachloroethane	0.84	U	0.84	4.0
1,1,2,2-Tetrachloroethane	0.84	U	0.84	4.0
Tetrachloroethene	0.80	U	0.80	4.0
Toluene	2.8	J	0.68	4.0
trans-1,2-Dichloroethene	0.60	U	0.60	4.0
trans-1,3-Dichloropropene	0.76	U	0.76	12
1,2,3-Trichlorobenzene	0.84	U	0.84	4.0
1,2,4-Trichlorobenzene	0.84	U	0.84	4.0
1,1,1-Trichloroethane	0.64	U	0.64	4.0
1,1,2-Trichloroethane	1.1	U	1.1	4.0
Trichloroethene	0.64	U	0.64	4.0
Trichlorofluoromethane	1.2	U	1.2	8.0
1,2,3-Trichloropropane	1.3	U	1.3	10
1,2,4-Trimethylbenzene	1.1	J	0.60	4.0
1,3,5-Trimethylbenzene	4.5		0.64	4.0
Vinyl chloride	0.40	U	0.40	4.0
Xylenes, Total	12		0.76	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	103		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120
1,2-Dichloroethane-d4 (Surr)	115		70 - 127
Toluene-d8 (Surr)	108		80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-36712-15TB Date Sampled: 12/04/2012 1320
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9096.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0745			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0745				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.22	U	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
n-Propylbenzene	0.16	U	0.16	1.0
o-Xylene	0.19	U	0.19	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-36712-15TB Date Sampled: 12/04/2012 1320
Client Matrix: Water Date Received: 12/06/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	H9096.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0745			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0745				

Analyte	Result (ug/L)	Qualifier	MDL	RL
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.21	U	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	100		80 - 125

General Chemistry

Client Sample ID: **MW-17**

Lab Sample ID: 280-36712-9 Date Sampled: 12/05/2012 1100

Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-Dissolved	840		mg/L	4.6	100	20	300.0

Analysis Batch: 280-151859 Analysis Date: 12/12/2012 0913

General Chemistry

Client Sample ID: **INJ-W**

Lab Sample ID: 280-36712-10 Date Sampled: 12/05/2012 1140

Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-Dissolved	670		mg/L	4.6	100	20	300.0

Analysis Batch: 280-151859 Analysis Date: 12/12/2012 0929

General Chemistry

Client Sample ID: **INJ-S**

Lab Sample ID: 280-36712-11 Date Sampled: 12/05/2012 1215

Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-Dissolved	510		mg/L	4.6	100	20	300.0

Analysis Batch: 280-151859 Analysis Date: 12/12/2012 0945

General Chemistry

Client Sample ID: **INJ-E**

Lab Sample ID: 280-36712-12 Date Sampled: 12/05/2012 1250

Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-Dissolved	530		mg/L	4.6	100	20	300.0

Analysis Batch: 280-151859 Analysis Date: 12/12/2012 1001

General Chemistry

Client Sample ID: **INJ-N**

Lab Sample ID: 280-36712-13 Date Sampled: 12/05/2012 1330

Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-Dissolved	1000		mg/L	12	250	50	300.0

Analysis Batch: 280-151859 Analysis Date: 12/12/2012 0842

General Chemistry

Client Sample ID: **DUP-1**

Lab Sample ID: 280-36712-14FD Date Sampled: 12/05/2012 0000

Client Matrix: Water Date Received: 12/06/2012 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate-Dissolved	840		mg/L	4.6	100	20	300.0

Analysis Batch: 280-151859 Analysis Date: 12/12/2012 0857

Client: AECOM, Inc.

Job Number: 280-36712-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-36712-1	MW-18	100	101	95	108
280-36712-2	MW-22	102	105	95	99
280-36712-3	MW-21	105	106	103	98
280-36712-4	MW-20	100	98	99	94
280-36712-5	MW-10	100	98	99	95
280-36712-6	MW-19	101	99	99	96
280-36712-7	MW-9	103	101	97	94
280-36712-8	MW-16	106	106	104	100
280-36712-9	MW-17	102	109	104	102
280-36712-10	INJ-W	101	98	100	95
280-36712-11	INJ-S	102	98	101	99
280-36712-12	INJ-E	105	101	105	101
280-36712-13	INJ-N	103	100	102	99
280-36712-14	DUP-1	106	115	108	103
280-36712-15	TRIP BLANK	100	96	100	97
MB 280-151489/6		102	101	100	98
LCS 280-151489/4		100	105	106	94
LCSD 280-151489/5		99	104	107	92
280-36712-4 MS	MW-20 MS	101	106	106	93
280-36712-4 MSD	MW-20 MSD	101	108	109	96

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Client: AECOM, Inc. Job Number: 280-36712-1

Method Blank - Batch: 280-151489

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-151489/6	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H9095.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0721	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0721				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	1.9	U	1.9	10
Benzene	0.16	U	0.16	1.0
Bromobenzene	0.17	U	0.17	1.0
Bromodichloromethane	0.17	U	0.17	1.0
Bromoform	0.19	U	0.19	1.0
Bromomethane	0.21	U	0.21	2.0
2-Butanone (MEK)	2.0	U	2.0	6.0
Carbon tetrachloride	0.19	U	0.19	1.0
Chlorobenzene	0.17	U	0.17	1.0
Bromochloromethane	0.10	U	0.10	1.0
Dibromochloromethane	0.17	U	0.17	1.0
Chloroethane	0.41	U	0.41	2.0
Chloroform	0.16	U	0.16	1.0
Chloromethane	0.30	U	0.30	2.0
2-Chlorotoluene	0.17	U	0.17	1.0
4-Chlorotoluene	0.21	U	0.21	1.0
cis-1,2-Dichloroethene	0.15	U	0.15	1.0
cis-1,3-Dichloropropene	0.16	U	0.16	1.0
1,2-Dibromo-3-Chloropropane	0.47	U	0.47	5.0
1,2-Dibromoethane (EDB)	0.18	U	0.18	1.0
Dibromomethane	0.17	U	0.17	1.0
1,2-Dichlorobenzene	0.15	U	0.15	1.0
1,3-Dichlorobenzene	0.13	U	0.13	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
Dichlorodifluoromethane	0.31	U	0.31	2.0
1,1-Dichloroethane	0.22	U	0.22	1.0
1,2-Dichloroethane	0.13	U	0.13	1.0
1,1-Dichloroethene	0.23	U	0.23	1.0
1,2-Dichloroethene, Total	0.24	U	0.24	1.0
1,2-Dichloropropane	0.18	U	0.18	1.0
1,3-Dichloropropane	0.22	U	0.22	1.0
2,2-Dichloropropane	0.18	U	0.18	1.0
1,1-Dichloropropene	0.19	U	0.19	1.0
Ethylbenzene	0.16	U	0.16	1.0
Hexachlorobutadiene	0.36	U	0.36	1.0
2-Hexanone	1.7	U	1.7	5.0
Isopropylbenzene	0.19	U	0.19	1.0
4-Isopropyltoluene	0.20	U	0.20	1.0
Methylene Chloride	0.32	U	0.32	2.0
4-Methyl-2-pentanone	0.98	U	0.98	5.0
Methyl tert-butyl ether	0.25	U	0.25	5.0
m-Xylene & p-Xylene	0.34	U	0.34	2.0
Naphthalene	0.257	J	0.22	1.0
n-Butylbenzene	0.32	U	0.32	1.0
n-Propylbenzene	0.16	U	0.16	1.0

Client: AECOM, Inc. Job Number: 280-36712-1

Method Blank - Batch: 280-151489

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-151489/6	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H9095.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0721	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0721				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
o-Xylene	0.19	U	0.19	1.0
sec-Butylbenzene	0.17	U	0.17	1.0
Styrene	0.17	U	0.17	1.0
tert-Butylbenzene	0.16	U	0.16	1.0
1,1,1,2-Tetrachloroethane	0.21	U	0.21	1.0
1,1,2,2-Tetrachloroethane	0.21	U	0.21	1.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.17	U	0.17	1.0
trans-1,2-Dichloroethene	0.15	U	0.15	1.0
trans-1,3-Dichloropropene	0.19	U	0.19	3.0
1,2,3-Trichlorobenzene	0.213	J	0.21	1.0
1,2,4-Trichlorobenzene	0.21	U	0.21	1.0
1,1,1-Trichloroethane	0.16	U	0.16	1.0
1,1,2-Trichloroethane	0.27	U	0.27	1.0
Trichloroethene	0.16	U	0.16	1.0
Trichlorofluoromethane	0.29	U	0.29	2.0
1,2,3-Trichloropropane	0.33	U	0.33	2.5
1,2,4-Trimethylbenzene	0.15	U	0.15	1.0
1,3,5-Trimethylbenzene	0.16	U	0.16	1.0
Vinyl chloride	0.10	U	0.10	1.0
Xylenes, Total	0.19	U	0.19	2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	98	78 - 120
Dibromofluoromethane (Surr)	102	77 - 120
1,2-Dichloroethane-d4 (Surr)	101	70 - 127
Toluene-d8 (Surr)	100	80 - 125

Client: AECOM, Inc. Job Number: 280-36712-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151489

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-151489/4	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H9093.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0637	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0637				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151489/5	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H9094.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0659	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0659				
Leach Date:	N/A				

	% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	93	103	50 - 156	10	41		
Benzene	91	91	74 - 135	1	20		
Bromobenzene	84	86	74 - 135	3	20		
Bromodichloromethane	89	92	73 - 135	3	20		
Bromoform	80	87	62 - 135	8	21		
Bromomethane	82	90	38 - 150	9	24		
2-Butanone (MEK)	83	97	44 - 150	14	32		
Carbon tetrachloride	94	96	67 - 135	2	21		
Chlorobenzene	87	91	76 - 135	4	20		
Bromochloromethane	90	95	70 - 135	5	20		
Dibromochloromethane	87	89	68 - 135	3	20		
Chloroethane	90	96	46 - 147	6	25		
Chloroform	93	94	76 - 120	1	20		
Chloromethane	79	84	34 - 145	5	24		
2-Chlorotoluene	84	87	72 - 135	3	20		
4-Chlorotoluene	90	92	74 - 135	3	20		
cis-1,2-Dichloroethene	88	90	73 - 135	2	20		
cis-1,3-Dichloropropene	89	93	66 - 135	5	20		
1,2-Dibromo-3-Chloropropane	78	85	65 - 150	9	22	J	J
1,2-Dibromoethane (EDB)	85	90	71 - 135	6	20		
Dibromomethane	86	90	72 - 135	5	20		
1,2-Dichlorobenzene	86	89	75 - 135	3	20		
1,3-Dichlorobenzene	89	92	74 - 135	3	20		
1,4-Dichlorobenzene	83	84	75 - 135	0	23		
Dichlorodifluoromethane	64	68	28 - 152	6	24		
1,1-Dichloroethane	94	96	75 - 135	1	21		
1,2-Dichloroethane	91	94	70 - 135	3	20		
1,1-Dichloroethene	94	94	71 - 136	0	20		
1,2-Dichloroethene, Total	90	90	75 - 135	1	20		
1,2-Dichloropropane	95	96	71 - 120	1	20		
1,3-Dichloropropane	84	93	70 - 135	9	20		
2,2-Dichloropropane	95	95	67 - 135	0	24		
1,1-Dichloropropene	88	88	69 - 135	1	21		
Ethylbenzene	87	89	72 - 120	3	26		
Hexachlorobutadiene	94	93	61 - 135	1	25		
2-Hexanone	86	104	47 - 150	18	25		

Client: AECOM, Inc. Job Number: 280-36712-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151489

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-151489/4	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H9093.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0637	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0637				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151489/5	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H9094.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0659	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0659				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Isopropylbenzene	88	88	75 - 135	0	20		
4-Isopropyltoluene	89	89	68 - 135	1	20		
Methylene Chloride	88	91	54 - 141	3	20		
4-Methyl-2-pentanone	98	117	53 - 150	18	22		
Methyl tert-butyl ether	89	94	46 - 135	6	21	J	J
m-Xylene & p-Xylene	88	90	74 - 135	1	20		
Naphthalene	83	90	48 - 135	8	32		
n-Butylbenzene	87	87	67 - 135	0	21		
n-Propylbenzene	87	87	69 - 135	0	20		
o-Xylene	87	89	73 - 135	2	20		
sec-Butylbenzene	88	88	68 - 135	0	21		
Styrene	87	90	68 - 135	4	20		
tert-Butylbenzene	89	88	70 - 135	0	21		
1,1,1,2-Tetrachloroethane	86	88	73 - 135	2	20		
1,1,2,2-Tetrachloroethane	84	88	66 - 135	5	20		
Tetrachloroethene	89	91	70 - 135	3	20		
Toluene	90	89	73 - 120	1	20		
trans-1,2-Dichloroethene	91	91	75 - 135	1	24		
trans-1,3-Dichloropropene	93	94	68 - 135	2	20		
1,2,3-Trichlorobenzene	82	85	60 - 135	3	29		
1,2,4-Trichlorobenzene	87	90	64 - 135	3	25		
1,1,1-Trichloroethane	93	94	70 - 135	1	20		
1,1,2-Trichloroethane	90	86	73 - 135	4	21		
Trichloroethene	87	89	73 - 135	2	20		
Trichlorofluoromethane	85	89	47 - 150	5	20		
1,2,3-Trichloropropane	87	92	68 - 135	5	23		
1,2,4-Trimethylbenzene	84	85	72 - 135	1	20		
1,3,5-Trimethylbenzene	86	86	70 - 135	1	20		
Vinyl chloride	81	87	40 - 144	6	24		
Xylenes, Total	88	89	75 - 135	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	94	92	78 - 120
Dibromofluoromethane (Surr)	100	99	77 - 120
1,2-Dichloroethane-d4 (Surr)	105	104	70 - 127
Toluene-d8 (Surr)	106	107	80 - 125

Client: AECOM, Inc.

Job Number: 280-36712-1

Client: AECOM, Inc. Job Number: 280-36712-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151489

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-151489/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-151489/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 0637			Analysis Date:	12/11/2012 0659
Prep Date:	12/11/2012 0637			Prep Date:	12/11/2012 0659
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Acetone	20.0	20.0	18.6	20.5
Benzene	5.00	5.00	4.57	4.54
Bromobenzene	5.00	5.00	4.19	4.32
Bromodichloromethane	5.00	5.00	4.46	4.60
Bromoform	5.00	5.00	4.02	4.34
Bromomethane	5.00	5.00	4.10	4.49
2-Butanone (MEK)	20.0	20.0	16.7	19.3
Carbon tetrachloride	5.00	5.00	4.71	4.82
Chlorobenzene	5.00	5.00	4.35	4.55
Bromochloromethane	5.00	5.00	4.50	4.73
Dibromochloromethane	5.00	5.00	4.33	4.47
Chloroethane	5.00	5.00	4.50	4.80
Chloroform	5.00	5.00	4.63	4.68
Chloromethane	5.00	5.00	3.96	4.18
2-Chlorotoluene	5.00	5.00	4.22	4.34
4-Chlorotoluene	5.00	5.00	4.50	4.62
cis-1,2-Dichloroethene	5.00	5.00	4.38	4.48
cis-1,3-Dichloropropene	5.00	5.00	4.46	4.67
1,2-Dibromo-3-Chloropropane	5.00	5.00	3.90 J	4.26 J
1,2-Dibromoethane (EDB)	5.00	5.00	4.27	4.52
Dibromomethane	5.00	5.00	4.28	4.50
1,2-Dichlorobenzene	5.00	5.00	4.31	4.43
1,3-Dichlorobenzene	5.00	5.00	4.47	4.60
1,4-Dichlorobenzene	5.00	5.00	4.17	4.18
Dichlorodifluoromethane	5.00	5.00	3.18	3.38
1,1-Dichloroethane	5.00	5.00	4.71	4.78
1,2-Dichloroethane	5.00	5.00	4.55	4.71
1,1-Dichloroethene	5.00	5.00	4.72	4.70
1,2-Dichloroethene, Total	10.0	10.0	8.96	9.03
1,2-Dichloropropane	5.00	5.00	4.75	4.80
1,3-Dichloropropane	5.00	5.00	4.21	4.63
2,2-Dichloropropane	5.00	5.00	4.77	4.74
1,1-Dichloropropene	5.00	5.00	4.42	4.39
Ethylbenzene	5.00	5.00	4.33	4.47
Hexachlorobutadiene	5.00	5.00	4.71	4.67
2-Hexanone	20.0	20.0	17.3	20.7
Isopropylbenzene	5.00	5.00	4.39	4.39
4-Isopropyltoluene	5.00	5.00	4.46	4.43
Methylene Chloride	5.00	5.00	4.42	4.54

Client: AECOM, Inc. Job Number: 280-36712-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151489

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-151489/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-151489/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 0637			Analysis Date:	12/11/2012 0659
Prep Date:	12/11/2012 0637			Prep Date:	12/11/2012 0659
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
4-Methyl-2-pentanone	20.0	20.0	19.6	23.4
Methyl tert-butyl ether	5.00	5.00	4.43 J	4.69 J
m-Xylene & p-Xylene	10.0	10.0	8.85	8.98
Naphthalene	5.00	5.00	4.17	4.51
n-Butylbenzene	5.00	5.00	4.36	4.35
n-Propylbenzene	5.00	5.00	4.35	4.33
o-Xylene	5.00	5.00	4.34	4.44
sec-Butylbenzene	5.00	5.00	4.40	4.40
Styrene	5.00	5.00	4.33	4.49
tert-Butylbenzene	5.00	5.00	4.43	4.41
1,1,1,2-Tetrachloroethane	5.00	5.00	4.31	4.38
1,1,2,2-Tetrachloroethane	5.00	5.00	4.19	4.38
Tetrachloroethene	5.00	5.00	4.44	4.56
Toluene	5.00	5.00	4.49	4.45
trans-1,2-Dichloroethene	5.00	5.00	4.57	4.55
trans-1,3-Dichloropropene	5.00	5.00	4.63	4.72
1,2,3-Trichlorobenzene	5.00	5.00	4.12	4.25
1,2,4-Trichlorobenzene	5.00	5.00	4.36	4.50
1,1,1-Trichloroethane	5.00	5.00	4.64	4.70
1,1,2-Trichloroethane	5.00	5.00	4.50	4.31
Trichloroethene	5.00	5.00	4.36	4.45
Trichlorofluoromethane	5.00	5.00	4.24	4.47
1,2,3-Trichloropropane	5.00	5.00	4.36	4.59
1,2,4-Trimethylbenzene	5.00	5.00	4.22	4.27
1,3,5-Trimethylbenzene	5.00	5.00	4.28	4.30
Vinyl chloride	5.00	5.00	4.07	4.33
Xylenes, Total	15.0	15.0	13.2	13.4

Client: AECOM, Inc. Job Number: 280-36712-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151489

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-36712-4	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H9098.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0829			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0829				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36712-4	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H9099.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0851			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0851				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acetone	111	109	50 - 156	2	41		
Benzene	95	93	74 - 135	1	20		
Bromobenzene	90	89	74 - 135	1	20		
Bromodichloromethane	95	95	73 - 135	1	20		
Bromoform	87	88	62 - 135	1	21		
Bromomethane	90	90	38 - 150	1	24		
2-Butanone (MEK)	102	99	44 - 150	2	32		
Carbon tetrachloride	96	94	67 - 135	2	21		
Chlorobenzene	91	91	76 - 135	0	20		
Bromochloromethane	98	97	70 - 135	1	20		
Dibromochloromethane	92	93	68 - 135	2	20		
Chloroethane	98	99	46 - 147	1	25		
Chloroform	95	94	76 - 120	1	20		
Chloromethane	84	84	34 - 145	1	24		
2-Chlorotoluene	93	92	72 - 135	1	20		
4-Chlorotoluene	91	94	74 - 135	3	20		
cis-1,2-Dichloroethene	91	91	73 - 135	0	20		
cis-1,3-Dichloropropene	94	93	66 - 135	1	20		
1,2-Dibromo-3-Chloropropane	89	89	65 - 150	1	22	J	J
1,2-Dibromoethane (EDB)	90	90	71 - 135	1	20		
Dibromomethane	92	93	72 - 135	1	20		
1,2-Dichlorobenzene	89	90	75 - 135	2	20		
1,3-Dichlorobenzene	92	92	74 - 135	1	20		
1,4-Dichlorobenzene	88	89	75 - 135	1	23		
Dichlorodifluoromethane	65	68	28 - 152	5	24		
1,1-Dichloroethane	99	98	75 - 135	0	21		
1,2-Dichloroethane	97	97	70 - 135	0	20		
1,1-Dichloroethene	97	96	71 - 136	0	20		
1,2-Dichloroethene, Total	92	91	75 - 135	1	20		
1,2-Dichloropropane	101	99	71 - 120	1	20		
1,3-Dichloropropane	92	93	70 - 135	1	20		
2,2-Dichloropropane	95	93	67 - 135	3	24		
1,1-Dichloropropene	90	88	69 - 135	3	21		

Client: AECOM, Inc. Job Number: 280-36712-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151489

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-36712-4	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H9098.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0829			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0829				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36712-4	Analysis Batch:	280-151489	Instrument ID:	VMS_H
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	H9099.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	12/11/2012 0851			Final Weight/Volume:	20 mL
Prep Date:	12/11/2012 0851				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ethylbenzene	88	88	72 - 120	1	26		
Hexachlorobutadiene	97	96	61 - 135	2	25		
2-Hexanone	108	96	47 - 150	12	25		
Isopropylbenzene	90	89	75 - 135	2	20		
4-Isopropyltoluene	92	91	68 - 135	2	20		
Methylene Chloride	79	86	54 - 141	9	20		
4-Methyl-2-pentanone	115	116	53 - 150	0	22		
Methyl tert-butyl ether	97	97	46 - 135	0	21	J	J
m-Xylene & p-Xylene	91	90	74 - 135	2	20		
Naphthalene	92	90	48 - 135	2	32		
n-Butylbenzene	90	88	67 - 135	2	21		
n-Propylbenzene	89	88	69 - 135	0	20		
o-Xylene	88	89	73 - 135	1	20		
sec-Butylbenzene	91	91	68 - 135	0	21		
Styrene	90	69	68 - 135	26	20		F
tert-Butylbenzene	91	90	70 - 135	2	21		
1,1,1,2-Tetrachloroethane	88	89	73 - 135	1	20		
1,1,2,2-Tetrachloroethane	91	93	66 - 135	2	20		
Tetrachloroethene	91	90	70 - 135	1	20		
Toluene	91	93	73 - 120	2	20		
trans-1,2-Dichloroethene	94	92	75 - 135	2	24		
trans-1,3-Dichloropropene	99	100	68 - 135	2	20		
1,2,3-Trichlorobenzene	88	87	60 - 135	2	29		
1,2,4-Trichlorobenzene	93	92	64 - 135	1	25		
1,1,1-Trichloroethane	96	95	70 - 135	0	20		
1,1,2-Trichloroethane	90	97	73 - 135	8	21		
Trichloroethene	90	89	73 - 135	1	20		
Trichlorofluoromethane	91	93	47 - 150	1	20		
1,2,3-Trichloropropane	98	100	68 - 135	2	23		
1,2,4-Trimethylbenzene	88	85	72 - 135	3	20		
1,3,5-Trimethylbenzene	89	86	70 - 135	3	20		
Vinyl chloride	87	88	40 - 144	2	24		
Xylenes, Total	90	90	75 - 135	1	20		

Client: AECOM, Inc. Job Number: 280-36712-1

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	96	78 - 120
Dibromofluoromethane (Surr)	101	101	77 - 120
1,2-Dichloroethane-d4 (Surr)	106	108	70 - 127
Toluene-d8 (Surr)	106	109	80 - 125

Client: AECOM, Inc.

Job Number: 280-36712-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151489

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-36712-4	Units:	ug/L	MSD Lab Sample ID:	280-36712-4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 0829			Analysis Date:	12/11/2012 0851
Prep Date:	12/11/2012 0829			Prep Date:	12/11/2012 0851
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Acetone	1.9	J	20.0	20.0	22.3		21.7	
Benzene	0.16	U	5.00	5.00	4.73		4.67	
Bromobenzene	0.17	U	5.00	5.00	4.48		4.44	
Bromodichloromethane	0.17	U	5.00	5.00	4.77		4.73	
Bromoform	0.19	U	5.00	5.00	4.36		4.39	
Bromomethane	0.21	U	5.00	5.00	4.52		4.50	
2-Butanone (MEK)	2.0	U	20.0	20.0	20.4		19.9	
Carbon tetrachloride	0.19	U	5.00	5.00	4.80		4.71	
Chlorobenzene	0.17	U	5.00	5.00	4.55		4.55	
Bromochloromethane	0.10	U	5.00	5.00	4.88		4.84	
Dibromochloromethane	0.17	U	5.00	5.00	4.59		4.67	
Chloroethane	0.41	U	5.00	5.00	4.92		4.96	
Chloroform	0.16	U	5.00	5.00	4.76		4.69	
Chloromethane	0.30	U	5.00	5.00	4.19		4.22	
2-Chlorotoluene	0.17	U	5.00	5.00	4.63		4.60	
4-Chlorotoluene	0.21	U	5.00	5.00	4.54		4.69	
cis-1,2-Dichloroethene	0.15	U	5.00	5.00	4.53		4.54	
cis-1,3-Dichloropropene	0.16	U	5.00	5.00	4.72		4.67	
1,2-Dibromo-3-Chloropropane	0.47	U	5.00	5.00	4.44	J	4.47	J
1,2-Dibromoethane (EDB)	0.18	U	5.00	5.00	4.52		4.50	
Dibromomethane	0.17	U	5.00	5.00	4.61		4.65	
1,2-Dichlorobenzene	0.15	U	5.00	5.00	4.44		4.52	
1,3-Dichlorobenzene	0.13	U	5.00	5.00	4.62		4.58	
1,4-Dichlorobenzene	0.16	U	5.00	5.00	4.41		4.46	
Dichlorodifluoromethane	0.31	U	5.00	5.00	3.23		3.40	
1,1-Dichloroethane	0.22	U	5.00	5.00	4.93		4.91	
1,2-Dichloroethane	0.13	U	5.00	5.00	4.83		4.84	
1,1-Dichloroethene	0.23	U	5.00	5.00	4.84		4.81	
1,2-Dichloroethene, Total	0.24	U	10.0	10.0	9.22		9.12	
1,2-Dichloropropane	0.18	U	5.00	5.00	5.03		4.97	
1,3-Dichloropropane	0.22	U	5.00	5.00	4.62		4.67	
2,2-Dichloropropane	0.18	U	5.00	5.00	4.77		4.65	
1,1-Dichloropropene	0.19	U	5.00	5.00	4.50		4.38	
Ethylbenzene	0.16	U	5.00	5.00	4.42		4.38	
Hexachlorobutadiene	0.36	U	5.00	5.00	4.86		4.79	
2-Hexanone	1.7	U	20.0	20.0	21.6		19.1	
Isopropylbenzene	0.19	U	5.00	5.00	4.50		4.43	
4-Isopropyltoluene	0.20	U	5.00	5.00	4.61		4.53	
Methylene Chloride	0.32	U	5.00	5.00	3.93		4.32	
4-Methyl-2-pentanone	0.98	U	20.0	20.0	23.1		23.2	
Methyl tert-butyl ether	0.25	U	5.00	5.00	4.85	J	4.84	J
m-Xylene & p-Xylene	0.34	U	10.0	10.0	9.14		9.00	
Naphthalene	0.22	U	5.00	5.00	4.60		4.49	

Client: AECOM, Inc.

Job Number: 280-36712-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151489

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-36712-4	Units:	ug/L	MSD Lab Sample ID:	280-36712-4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 0829			Analysis Date:	12/11/2012 0851
Prep Date:	12/11/2012 0829			Prep Date:	12/11/2012 0851
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
n-Butylbenzene	0.32	U	5.00	5.00	4.50	4.41	
n-Propylbenzene	0.16	U	5.00	5.00	4.44	4.42	
o-Xylene	0.19	U	5.00	5.00	4.42	4.45	
sec-Butylbenzene	0.17	U	5.00	5.00	4.53	4.55	
Styrene	0.17	U	5.00	5.00	4.50	3.46	F
tert-Butylbenzene	0.16	U	5.00	5.00	4.57	4.50	
1,1,1,2-Tetrachloroethane	0.21	U	5.00	5.00	4.41	4.46	
1,1,2,2-Tetrachloroethane	0.21	U	5.00	5.00	4.56	4.64	
Tetrachloroethene	0.20	U	5.00	5.00	4.54	4.51	
Toluene	0.17	U	5.00	5.00	4.54	4.63	
trans-1,2-Dichloroethene	0.15	U	5.00	5.00	4.69	4.59	
trans-1,3-Dichloropropene	0.19	U	5.00	5.00	4.93	5.00	
1,2,3-Trichlorobenzene	0.21	U	5.00	5.00	4.40	4.33	
1,2,4-Trichlorobenzene	0.21	U	5.00	5.00	4.64	4.60	
1,1,1-Trichloroethane	0.16	U	5.00	5.00	4.79	4.77	
1,1,2-Trichloroethane	0.27	U	5.00	5.00	4.48	4.84	
Trichloroethene	0.16	U	5.00	5.00	4.49	4.43	
Trichlorofluoromethane	0.29	U	5.00	5.00	4.57	4.63	
1,2,3-Trichloropropane	0.33	U	5.00	5.00	4.90	5.01	
1,2,4-Trimethylbenzene	0.15	U	5.00	5.00	4.39	4.27	
1,3,5-Trimethylbenzene	0.16	U	5.00	5.00	4.43	4.30	
Vinyl chloride	0.10	U	5.00	5.00	4.35	4.42	
Xylenes, Total	0.19	U	15.0	15.0	13.6	13.4	

Client: AECOM, Inc. Job Number: 280-36712-1

Method Blank - Batch: 280-151859

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-151859/14	Analysis Batch:	280-151859	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 1113	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Sulfate-Dissolved	0.23	U	0.23	5.0

Method Reporting Limit Check - Batch: 280-151859

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-151859/11	Analysis Batch:	280-151859	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	110.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 1025	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate-Dissolved	1.00	0.998	100	50 - 150	J

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-151859

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151859/12	Analysis Batch:	280-151859	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	111.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 1041	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-151859/13	Analysis Batch:	280-151859	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 1057	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Sulfate-Dissolved	94	94	90 - 110	0	10		

Client: AECOM, Inc. Job Number: 280-36712-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-151859

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-151859/12	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-151859/13
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	12/11/2012 1041			Analysis Date:	12/11/2012 1057
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Sulfate-Dissolved	25.0	25.0	23.6	23.6

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151859

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36559-A-12 MS	Analysis Batch:	280-151859	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	138.TXT
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 2258			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-36559-A-12 MSD	Analysis Batch:	280-151859	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	139.TXT
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 2314			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Sulfate-Dissolved	103	103	80 - 120	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-151859

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-36559-A-12 MS	Units:	mg/L	MSD Lab Sample ID:	280-36559-A-12 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	5.0			Dilution:	5.0
Analysis Date:	12/11/2012 2258			Analysis Date:	12/11/2012 2314
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Sulfate-Dissolved	27	125	125	155	156

Client: AECOM, Inc. Job Number: 280-36712-1

Duplicate - Batch: 280-151859

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-36559-A-12 DU	Analysis Batch:	280-151859	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	137.TXT
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	12/11/2012 2243	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Sulfate-Dissolved	27	27.0	0.3	15	

Client: AECOM, Inc. Job Number: 280-36712-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-151489					
LCS 280-151489/4	Lab Control Sample	T	Water	8260B	
LCSD 280-151489/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-151489/6	Method Blank	T	Water	8260B	
280-36712-1	MW-18	T	Water	8260B	
280-36712-2	MW-22	T	Water	8260B	
280-36712-3	MW-21	T	Water	8260B	
280-36712-4	MW-20	T	Water	8260B	
280-36712-4MS	Matrix Spike	T	Water	8260B	
280-36712-4MSD	Matrix Spike Duplicate	T	Water	8260B	
280-36712-5	MW-10	T	Water	8260B	
280-36712-6	MW-19	T	Water	8260B	
280-36712-7	MW-9	T	Water	8260B	
280-36712-8	MW-16	T	Water	8260B	
280-36712-9	MW-17	T	Water	8260B	
280-36712-10	INJ-W	T	Water	8260B	
280-36712-11	INJ-S	T	Water	8260B	
280-36712-12	INJ-E	T	Water	8260B	
280-36712-13	INJ-N	T	Water	8260B	
280-36712-14FD	DUP-1	T	Water	8260B	
280-36712-15TB	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

General Chemistry

Analysis Batch:280-151859					
LCS 280-151859/12	Lab Control Sample	T	Water	300.0	
LCSD 280-151859/13	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-151859/14	Method Blank	T	Water	300.0	
280-36559-A-12 DU	Duplicate	T	Water	300.0	
280-36559-A-12 MS	Matrix Spike	T	Water	300.0	
280-36559-A-12 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-36712-9	MW-17	D	Water	300.0	
280-36712-10	INJ-W	D	Water	300.0	
280-36712-11	INJ-S	D	Water	300.0	
280-36712-12	INJ-E	D	Water	300.0	
280-36712-13	INJ-N	D	Water	300.0	
280-36712-14FD	DUP-1	D	Water	300.0	

Report Basis
D = Dissolved
T = Total

Client: AECOM, Inc. Job Number: 280-36712-1

Laboratory Chronicle

Lab ID: 280-36712-1 **Client ID:** MW-18

Sample Date/Time: 12/04/2012 13:20 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-A-1		280-151489		12/11/2012 09:14	1	TAL DEN	GPM
A:8260B	280-36712-A-1		280-151489		12/11/2012 09:14	1	TAL DEN	GPM

Lab ID: 280-36712-2 **Client ID:** MW-22

Sample Date/Time: 12/04/2012 14:05 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-B-2		280-151489		12/11/2012 09:36	1	TAL DEN	GPM
A:8260B	280-36712-B-2		280-151489		12/11/2012 09:36	1	TAL DEN	GPM

Lab ID: 280-36712-3 **Client ID:** MW-21

Sample Date/Time: 12/04/2012 14:50 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-C-3		280-151489		12/11/2012 09:58	1	TAL DEN	GPM
A:8260B	280-36712-C-3		280-151489		12/11/2012 09:58	1	TAL DEN	GPM

Lab ID: 280-36712-4 **Client ID:** MW-20

Sample Date/Time: 12/04/2012 15:30 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-C-4		280-151489		12/11/2012 08:07	1	TAL DEN	GPM
A:8260B	280-36712-C-4		280-151489		12/11/2012 08:07	1	TAL DEN	GPM

Lab ID: 280-36712-4 MS **Client ID:** MW-20

Sample Date/Time: 12/04/2012 15:30 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-B-4 MS		280-151489		12/11/2012 08:29	1	TAL DEN	GPM
A:8260B	280-36712-B-4 MS		280-151489		12/11/2012 08:29	1	TAL DEN	GPM

Lab ID: 280-36712-4 MSD **Client ID:** MW-20

Sample Date/Time: 12/04/2012 15:30 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-B-4 MSD		280-151489		12/11/2012 08:51	1	TAL DEN	GPM
A:8260B	280-36712-B-4 MSD		280-151489		12/11/2012 08:51	1	TAL DEN	GPM

Client: AECOM, Inc. Job Number: 280-36712-1

Laboratory Chronicle

Lab ID: 280-36712-5 **Client ID:** MW-10

Sample Date/Time: 12/04/2012 16:15 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-A-5		280-151489		12/11/2012 10:21	1	TAL DEN	GPM
A:8260B	280-36712-A-5		280-151489		12/11/2012 10:21	1	TAL DEN	GPM

Lab ID: 280-36712-6 **Client ID:** MW-19

Sample Date/Time: 12/05/2012 08:50 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-B-6		280-151489		12/11/2012 10:43	1	TAL DEN	GPM
A:8260B	280-36712-B-6		280-151489		12/11/2012 10:43	1	TAL DEN	GPM

Lab ID: 280-36712-7 **Client ID:** MW-9

Sample Date/Time: 12/05/2012 09:35 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-B-7		280-151489		12/11/2012 11:05	1	TAL DEN	GPM
A:8260B	280-36712-B-7		280-151489		12/11/2012 11:05	1	TAL DEN	GPM

Lab ID: 280-36712-8 **Client ID:** MW-16

Sample Date/Time: 12/05/2012 10:15 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-A-8		280-151489		12/11/2012 11:27	1	TAL DEN	GPM
A:8260B	280-36712-A-8		280-151489		12/11/2012 11:27	1	TAL DEN	GPM

Lab ID: 280-36712-9 **Client ID:** MW-17

Sample Date/Time: 12/05/2012 11:00 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-D-9		280-151489		12/11/2012 14:04	1	TAL DEN	GPM
A:8260B	280-36712-D-9		280-151489		12/11/2012 14:04	1	TAL DEN	GPM
A:300.0	280-36712-A-9		280-151859		12/12/2012 09:13	20	TAL DEN	EK

Lab ID: 280-36712-10 **Client ID:** INJ-W

Sample Date/Time: 12/05/2012 11:40 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-B-10		280-151489		12/11/2012 12:57	1	TAL DEN	GPM
A:8260B	280-36712-B-10		280-151489		12/11/2012 12:57	1	TAL DEN	GPM
A:300.0	280-36712-A-10		280-151859		12/12/2012 09:29	20	TAL DEN	EK

Client: AECOM, Inc. Job Number: 280-36712-1

Laboratory Chronicle

Lab ID: 280-36712-11 **Client ID:** INJ-S

Sample Date/Time: 12/05/2012 12:15 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-B-11		280-151489		12/11/2012 13:19	1	TAL DEN	GPM
A:8260B	280-36712-B-11		280-151489		12/11/2012 13:19	1	TAL DEN	GPM
A:300.0	280-36712-A-11		280-151859		12/12/2012 09:45	20	TAL DEN	EK

Lab ID: 280-36712-12 **Client ID:** INJ-E

Sample Date/Time: 12/05/2012 12:50 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-B-12		280-151489		12/11/2012 12:12	1	TAL DEN	GPM
A:8260B	280-36712-B-12		280-151489		12/11/2012 12:12	1	TAL DEN	GPM
A:300.0	280-36712-A-12		280-151859		12/12/2012 10:01	20	TAL DEN	EK

Lab ID: 280-36712-13 **Client ID:** INJ-N

Sample Date/Time: 12/05/2012 13:30 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-D-13		280-151489		12/11/2012 13:42	1	TAL DEN	GPM
A:8260B	280-36712-D-13		280-151489		12/11/2012 13:42	1	TAL DEN	GPM
A:300.0	280-36712-A-13		280-151859		12/12/2012 08:42	50	TAL DEN	EK

Lab ID: 280-36712-14 **Client ID:** DUP-1

Sample Date/Time: 12/05/2012 00:00 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-C-14		280-151489		12/11/2012 14:26	1	TAL DEN	GPM
A:8260B	280-36712-C-14		280-151489		12/11/2012 14:26	1	TAL DEN	GPM
A:300.0	280-36712-A-14		280-151859		12/12/2012 08:57	20	TAL DEN	EK

Lab ID: 280-36712-15 **Client ID:** TRIP BLANK

Sample Date/Time: 12/04/2012 13:20 Received Date/Time: 12/06/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-36712-B-15		280-151489		12/11/2012 07:45	1	TAL DEN	GPM
A:8260B	280-36712-B-15		280-151489		12/11/2012 07:45	1	TAL DEN	GPM

Client: AECOM, Inc. Job Number: 280-36712-1

Laboratory Chronicle

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-151489/6		280-151489		12/11/2012 07:21	1	TAL DEN	GPM
A:8260B	MB 280-151489/6		280-151489		12/11/2012 07:21	1	TAL DEN	GPM
A:300.0	MB 280-151859/14		280-151859		12/11/2012 11:13	1	TAL DEN	EK

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-151489/4		280-151489		12/11/2012 06:37	1	TAL DEN	GPM
A:8260B	LCS 280-151489/4		280-151489		12/11/2012 06:37	1	TAL DEN	GPM
A:300.0	LCS 280-151859/12		280-151859		12/11/2012 10:41	1	TAL DEN	EK

Lab ID: LCSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-151489/5		280-151489		12/11/2012 06:59	1	TAL DEN	GPM
A:8260B	LCSD 280-151489/5		280-151489		12/11/2012 06:59	1	TAL DEN	GPM
A:300.0	LCSD 280-151859/13		280-151859		12/11/2012 10:57	1	TAL DEN	EK

Lab ID: MRL **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-151859/11		280-151859		12/11/2012 10:25	1	TAL DEN	EK

Lab ID: MS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36559-A-12 MS		280-151859		12/11/2012 22:58	5	TAL DEN	EK

Lab ID: MSD **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36559-A-12 MSD		280-151859		12/11/2012 23:14	5	TAL DEN	EK

Client: AECOM, Inc. Job Number: 280-36712-1

Laboratory Chronicle

Lab ID: DU **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-36559-A-12 DU		280-151859		12/11/2012 22:43	5	TAL DEN	EK

Lab References:
TAL DEN = TestAmerica Denver

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Instrument ID: VMS_H Analysis Batch Number: 151489

Lab Sample ID: 280-36712-13 Client Sample ID: INJ-N

Date Analyzed: 12/11/12 13:42 Lab File ID: H9112.D GC Column: DB-624 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trimethylbenzene	13.93	Wrong peak	meierg	12/12/12 05:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Instrument ID: VMS_H Analysis Batch Number: 151489

Lab Sample ID: 280-36712-13 Client Sample ID: INJ-N

Date Analyzed: 12/11/12 13:42 Lab File ID: H9112.D GC Column: DB-624 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3,5-Trimethylbenzene	13.93	Wrong peak	meierg	12/12/12 05:40

DC 12/13/12

Method 8260B

Volatile Organic Compounds (GC/MS) by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-18	280-36712-1	100	101	95	108
MW-22	280-36712-2	102	105	95	99
MW-21	280-36712-3	105	106	103	98
MW-20	280-36712-4	100	98	99	94
MW-10	280-36712-5	100	98	99	95
MW-19	280-36712-6	101	99	99	96
MW-9	280-36712-7	103	101	97	94
MW-16	280-36712-8	106	106	104	100
MW-17	280-36712-9	102	109	104	102
INJ-W	280-36712-10	101	98	100	95
INJ-S	280-36712-11	102	98	101	99
INJ-E	280-36712-12	105	101	105	101
INJ-N	280-36712-13	103	100	102	99
DUP-1	280-36712-14	106	115	108	103
TRIP BLANK	280-36712-15	100	96	100	97
	MB 280-151489/6	102	101	100	98
	LCS 280-151489/4	100	105	106	94
	LCSD 280-151489/5	99	104	107	92
MW-20 MS	280-36712-4 MS	101	106	106	93
MW-20 MSD	280-36712-4 MSD	101	108	109	96

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H9093.D

Lab ID: LCS 280-151489/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	18.6	93	50-156	
Benzene	5.00	4.57	91	74-135	
Bromobenzene	5.00	4.19	84	74-135	
Bromodichloromethane	5.00	4.46	89	73-135	
Bromoform	5.00	4.02	80	62-135	
Bromomethane	5.00	4.10	82	38-150	
2-Butanone (MEK)	20.0	16.7	83	44-150	
Carbon tetrachloride	5.00	4.71	94	67-135	
Chlorobenzene	5.00	4.35	87	76-135	
Bromochloromethane	5.00	4.50	90	70-135	
Dibromochloromethane	5.00	4.33	87	68-135	
Chloroethane	5.00	4.50	90	46-147	
Chloroform	5.00	4.63	93	76-120	
Chloromethane	5.00	3.96	79	34-145	
2-Chlorotoluene	5.00	4.22	84	72-135	
4-Chlorotoluene	5.00	4.50	90	74-135	
cis-1,2-Dichloroethene	5.00	4.38	88	73-135	
cis-1,3-Dichloropropene	5.00	4.46	89	66-135	
1,2-Dibromo-3-Chloropropane	5.00	3.90 J	78	65-150	
1,2-Dibromoethane (EDB)	5.00	4.27	85	71-135	
Dibromomethane	5.00	4.28	86	72-135	
1,2-Dichlorobenzene	5.00	4.31	86	75-135	
1,3-Dichlorobenzene	5.00	4.47	89	74-135	
1,4-Dichlorobenzene	5.00	4.17	83	75-135	
Dichlorodifluoromethane	5.00	3.18	64	28-152	
1,1-Dichloroethane	5.00	4.71	94	75-135	
1,2-Dichloroethane	5.00	4.55	91	70-135	
1,1-Dichloroethene	5.00	4.72	94	71-136	
1,2-Dichloroethene, Total	10.0	8.96	90	75-135	
1,2-Dichloropropane	5.00	4.75	95	71-120	
1,3-Dichloropropane	5.00	4.21	84	70-135	
2,2-Dichloropropane	5.00	4.77	95	67-135	
1,1-Dichloropropene	5.00	4.42	88	69-135	
Ethylbenzene	5.00	4.33	87	72-120	
Hexachlorobutadiene	5.00	4.71	94	61-135	
2-Hexanone	20.0	17.3	86	47-150	
Isopropylbenzene	5.00	4.39	88	75-135	
4-Isopropyltoluene	5.00	4.46	89	68-135	
Methylene Chloride	5.00	4.42	88	54-141	
4-Methyl-2-pentanone	20.0	19.6	98	53-150	
Methyl tert-butyl ether	5.00	4.43 J	89	46-135	
m-Xylene & p-Xylene	10.0	8.85	88	74-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H9093.D

Lab ID: LCS 280-151489/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	5.00	4.17	83	48-135	
n-Butylbenzene	5.00	4.36	87	67-135	
n-Propylbenzene	5.00	4.35	87	69-135	
o-Xylene	5.00	4.34	87	73-135	
sec-Butylbenzene	5.00	4.40	88	68-135	
Styrene	5.00	4.33	87	68-135	
tert-Butylbenzene	5.00	4.43	89	70-135	
1,1,1,2-Tetrachloroethane	5.00	4.31	86	73-135	
1,1,2,2-Tetrachloroethane	5.00	4.19	84	66-135	
Tetrachloroethene	5.00	4.44	89	70-135	
Toluene	5.00	4.49	90	73-120	
trans-1,2-Dichloroethene	5.00	4.57	91	75-135	
trans-1,3-Dichloropropene	5.00	4.63	93	68-135	
1,2,3-Trichlorobenzene	5.00	4.12	82	60-135	
1,2,4-Trichlorobenzene	5.00	4.36	87	64-135	
1,1,1-Trichloroethane	5.00	4.64	93	70-135	
1,1,2-Trichloroethane	5.00	4.50	90	73-135	
Trichloroethene	5.00	4.36	87	73-135	
Trichlorofluoromethane	5.00	4.24	85	47-150	
1,2,3-Trichloropropane	5.00	4.36	87	68-135	
1,2,4-Trimethylbenzene	5.00	4.22	84	72-135	
1,3,5-Trimethylbenzene	5.00	4.28	86	70-135	
Vinyl chloride	5.00	4.07	81	40-144	
Xylenes, Total	15.0	13.2	88	75-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H9094.D

Lab ID: LCSD 280-151489/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	20.5	103	10	41	50-156	
Benzene	5.00	4.54	91	1	20	74-135	
Bromobenzene	5.00	4.32	86	3	20	74-135	
Bromodichloromethane	5.00	4.60	92	3	20	73-135	
Bromoform	5.00	4.34	87	8	21	62-135	
Bromomethane	5.00	4.49	90	9	24	38-150	
2-Butanone (MEK)	20.0	19.3	97	14	32	44-150	
Carbon tetrachloride	5.00	4.82	96	2	21	67-135	
Chlorobenzene	5.00	4.55	91	4	20	76-135	
Bromochloromethane	5.00	4.73	95	5	20	70-135	
Dibromochloromethane	5.00	4.47	89	3	20	68-135	
Chloroethane	5.00	4.80	96	6	25	46-147	
Chloroform	5.00	4.68	94	1	20	76-120	
Chloromethane	5.00	4.18	84	5	24	34-145	
2-Chlorotoluene	5.00	4.34	87	3	20	72-135	
4-Chlorotoluene	5.00	4.62	92	3	20	74-135	
cis-1,2-Dichloroethene	5.00	4.48	90	2	20	73-135	
cis-1,3-Dichloropropene	5.00	4.67	93	5	20	66-135	
1,2-Dibromo-3-Chloropropane	5.00	4.26 J	85	9	22	65-150	
1,2-Dibromoethane (EDB)	5.00	4.52	90	6	20	71-135	
Dibromomethane	5.00	4.50	90	5	20	72-135	
1,2-Dichlorobenzene	5.00	4.43	89	3	20	75-135	
1,3-Dichlorobenzene	5.00	4.60	92	3	20	74-135	
1,4-Dichlorobenzene	5.00	4.18	84	0	23	75-135	
Dichlorodifluoromethane	5.00	3.38	68	6	24	28-152	
1,1-Dichloroethane	5.00	4.78	96	1	21	75-135	
1,2-Dichloroethane	5.00	4.71	94	3	20	70-135	
1,1-Dichloroethene	5.00	4.70	94	0	20	71-136	
1,2-Dichloroethene, Total	10.0	9.03	90	1	20	75-135	
1,2-Dichloropropane	5.00	4.80	96	1	20	71-120	
1,3-Dichloropropane	5.00	4.63	93	9	20	70-135	
2,2-Dichloropropane	5.00	4.74	95	0	24	67-135	
1,1-Dichloropropene	5.00	4.39	88	1	21	69-135	
Ethylbenzene	5.00	4.47	89	3	26	72-120	
Hexachlorobutadiene	5.00	4.67	93	1	25	61-135	
2-Hexanone	20.0	20.7	104	18	25	47-150	
Isopropylbenzene	5.00	4.39	88	0	20	75-135	
4-Isopropyltoluene	5.00	4.43	89	1	20	68-135	
Methylene Chloride	5.00	4.54	91	3	20	54-141	
4-Methyl-2-pentanone	20.0	23.4	117	18	22	53-150	
Methyl tert-butyl ether	5.00	4.69 J	94	6	21	46-135	
m-Xylene & p-Xylene	10.0	8.98	90	1	20	74-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H9094.D

Lab ID: LCSD 280-151489/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	5.00	4.51	90	8	32	48-135	
n-Butylbenzene	5.00	4.35	87	0	21	67-135	
n-Propylbenzene	5.00	4.33	87	0	20	69-135	
o-Xylene	5.00	4.44	89	2	20	73-135	
sec-Butylbenzene	5.00	4.40	88	0	21	68-135	
Styrene	5.00	4.49	90	4	20	68-135	
tert-Butylbenzene	5.00	4.41	88	0	21	70-135	
1,1,1,2-Tetrachloroethane	5.00	4.38	88	2	20	73-135	
1,1,2,2-Tetrachloroethane	5.00	4.38	88	5	20	66-135	
Tetrachloroethene	5.00	4.56	91	3	20	70-135	
Toluene	5.00	4.45	89	1	20	73-120	
trans-1,2-Dichloroethene	5.00	4.55	91	1	24	75-135	
trans-1,3-Dichloropropene	5.00	4.72	94	2	20	68-135	
1,2,3-Trichlorobenzene	5.00	4.25	85	3	29	60-135	
1,2,4-Trichlorobenzene	5.00	4.50	90	3	25	64-135	
1,1,1-Trichloroethane	5.00	4.70	94	1	20	70-135	
1,1,2-Trichloroethane	5.00	4.31	86	4	21	73-135	
Trichloroethene	5.00	4.45	89	2	20	73-135	
Trichlorofluoromethane	5.00	4.47	89	5	20	47-150	
1,2,3-Trichloropropane	5.00	4.59	92	5	23	68-135	
1,2,4-Trimethylbenzene	5.00	4.27	85	1	20	72-135	
1,3,5-Trimethylbenzene	5.00	4.30	86	1	20	70-135	
Vinyl chloride	5.00	4.33	87	6	24	40-144	
Xylenes, Total	15.0	13.4	89	2	20	75-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H9098.D

Lab ID: 280-36712-4 MS Client ID: MW-20 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	20.0	1.9 J	22.3	111	50-156	
Benzene	5.00	0.16 U	4.73	95	74-135	
Bromobenzene	5.00	0.17 U	4.48	90	74-135	
Bromodichloromethane	5.00	0.17 U	4.77	95	73-135	
Bromoform	5.00	0.19 U	4.36	87	62-135	
Bromomethane	5.00	0.21 U	4.52	90	38-150	
2-Butanone (MEK)	20.0	2.0 U	20.4	102	44-150	
Carbon tetrachloride	5.00	0.19 U	4.80	96	67-135	
Chlorobenzene	5.00	0.17 U	4.55	91	76-135	
Bromochloromethane	5.00	0.10 U	4.88	98	70-135	
Dibromochloromethane	5.00	0.17 U	4.59	92	68-135	
Chloroethane	5.00	0.41 U	4.92	98	46-147	
Chloroform	5.00	0.16 U	4.76	95	76-120	
Chloromethane	5.00	0.30 U	4.19	84	34-145	
2-Chlorotoluene	5.00	0.17 U	4.63	93	72-135	
4-Chlorotoluene	5.00	0.21 U	4.54	91	74-135	
cis-1,2-Dichloroethene	5.00	0.15 U	4.53	91	73-135	
cis-1,3-Dichloropropene	5.00	0.16 U	4.72	94	66-135	
1,2-Dibromo-3-Chloropropane	5.00	0.47 U	4.44 J	89	65-150	
1,2-Dibromoethane (EDB)	5.00	0.18 U	4.52	90	71-135	
Dibromomethane	5.00	0.17 U	4.61	92	72-135	
1,2-Dichlorobenzene	5.00	0.15 U	4.44	89	75-135	
1,3-Dichlorobenzene	5.00	0.13 U	4.62	92	74-135	
1,4-Dichlorobenzene	5.00	0.16 U	4.41	88	75-135	
Dichlorodifluoromethane	5.00	0.31 U	3.23	65	28-152	
1,1-Dichloroethane	5.00	0.22 U	4.93	99	75-135	
1,2-Dichloroethane	5.00	0.13 U	4.83	97	70-135	
1,1-Dichloroethene	5.00	0.23 U	4.84	97	71-136	
1,2-Dichloroethene, Total	10.0	0.24 U	9.22	92	75-135	
1,2-Dichloropropane	5.00	0.18 U	5.03	101	71-120	
1,3-Dichloropropane	5.00	0.22 U	4.62	92	70-135	
2,2-Dichloropropane	5.00	0.18 U	4.77	95	67-135	
1,1-Dichloropropene	5.00	0.19 U	4.50	90	69-135	
Ethylbenzene	5.00	0.16 U	4.42	88	72-120	
Hexachlorobutadiene	5.00	0.36 U	4.86	97	61-135	
2-Hexanone	20.0	1.7 U	21.6	108	47-150	
Isopropylbenzene	5.00	0.19 U	4.50	90	75-135	
4-Isopropyltoluene	5.00	0.20 U	4.61	92	68-135	
Methylene Chloride	5.00	0.32 U	3.93	79	54-141	
4-Methyl-2-pentanone	20.0	0.98 U	23.1	115	53-150	
Methyl tert-butyl ether	5.00	0.25 U	4.85 J	97	46-135	
m-Xylene & p-Xylene	10.0	0.34 U	9.14	91	74-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H9098.D

Lab ID: 280-36712-4 MS Client ID: MW-20 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Naphthalene	5.00	0.22 U	4.60	92	48-135	
n-Butylbenzene	5.00	0.32 U	4.50	90	67-135	
n-Propylbenzene	5.00	0.16 U	4.44	89	69-135	
o-Xylene	5.00	0.19 U	4.42	88	73-135	
sec-Butylbenzene	5.00	0.17 U	4.53	91	68-135	
Styrene	5.00	0.17 U	4.50	90	68-135	
tert-Butylbenzene	5.00	0.16 U	4.57	91	70-135	
1,1,1,2-Tetrachloroethane	5.00	0.21 U	4.41	88	73-135	
1,1,2,2-Tetrachloroethane	5.00	0.21 U	4.56	91	66-135	
Tetrachloroethene	5.00	0.20 U	4.54	91	70-135	
Toluene	5.00	0.17 U	4.54	91	73-120	
trans-1,2-Dichloroethene	5.00	0.15 U	4.69	94	75-135	
trans-1,3-Dichloropropene	5.00	0.19 U	4.93	99	68-135	
1,2,3-Trichlorobenzene	5.00	0.21 U	4.40	88	60-135	
1,2,4-Trichlorobenzene	5.00	0.21 U	4.64	93	64-135	
1,1,1-Trichloroethane	5.00	0.16 U	4.79	96	70-135	
1,1,2-Trichloroethane	5.00	0.27 U	4.48	90	73-135	
Trichloroethene	5.00	0.16 U	4.49	90	73-135	
Trichlorofluoromethane	5.00	0.29 U	4.57	91	47-150	
1,2,3-Trichloropropane	5.00	0.33 U	4.90	98	68-135	
1,2,4-Trimethylbenzene	5.00	0.15 U	4.39	88	72-135	
1,3,5-Trimethylbenzene	5.00	0.16 U	4.43	89	70-135	
Vinyl chloride	5.00	0.10 U	4.35	87	40-144	
Xylenes, Total	15.0	0.19 U	13.6	90	75-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H9099.D

Lab ID: 280-36712-4 MSD Client ID: MW-20 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	21.7	109	2	41	50-156	
Benzene	5.00	4.67	93	1	20	74-135	
Bromobenzene	5.00	4.44	89	1	20	74-135	
Bromodichloromethane	5.00	4.73	95	1	20	73-135	
Bromoform	5.00	4.39	88	1	21	62-135	
Bromomethane	5.00	4.50	90	1	24	38-150	
2-Butanone (MEK)	20.0	19.9	99	2	32	44-150	
Carbon tetrachloride	5.00	4.71	94	2	21	67-135	
Chlorobenzene	5.00	4.55	91	0	20	76-135	
Bromochloromethane	5.00	4.84	97	1	20	70-135	
Dibromochloromethane	5.00	4.67	93	2	20	68-135	
Chloroethane	5.00	4.96	99	1	25	46-147	
Chloroform	5.00	4.69	94	1	20	76-120	
Chloromethane	5.00	4.22	84	1	24	34-145	
2-Chlorotoluene	5.00	4.60	92	1	20	72-135	
4-Chlorotoluene	5.00	4.69	94	3	20	74-135	
cis-1,2-Dichloroethene	5.00	4.54	91	0	20	73-135	
cis-1,3-Dichloropropene	5.00	4.67	93	1	20	66-135	
1,2-Dibromo-3-Chloropropane	5.00	4.47 J	89	1	22	65-150	
1,2-Dibromoethane (EDB)	5.00	4.50	90	1	20	71-135	
Dibromomethane	5.00	4.65	93	1	20	72-135	
1,2-Dichlorobenzene	5.00	4.52	90	2	20	75-135	
1,3-Dichlorobenzene	5.00	4.58	92	1	20	74-135	
1,4-Dichlorobenzene	5.00	4.46	89	1	23	75-135	
Dichlorodifluoromethane	5.00	3.40	68	5	24	28-152	
1,1-Dichloroethane	5.00	4.91	98	0	21	75-135	
1,2-Dichloroethane	5.00	4.84	97	0	20	70-135	
1,1-Dichloroethene	5.00	4.81	96	0	20	71-136	
1,2-Dichloroethene, Total	10.0	9.12	91	1	20	75-135	
1,2-Dichloropropane	5.00	4.97	99	1	20	71-120	
1,3-Dichloropropane	5.00	4.67	93	1	20	70-135	
2,2-Dichloropropane	5.00	4.65	93	3	24	67-135	
1,1-Dichloropropene	5.00	4.38	88	3	21	69-135	
Ethylbenzene	5.00	4.38	88	1	26	72-120	
Hexachlorobutadiene	5.00	4.79	96	2	25	61-135	
2-Hexanone	20.0	19.1	96	12	25	47-150	
Isopropylbenzene	5.00	4.43	89	2	20	75-135	
4-Isopropyltoluene	5.00	4.53	91	2	20	68-135	
Methylene Chloride	5.00	4.32	86	9	20	54-141	
4-Methyl-2-pentanone	20.0	23.2	116	0	22	53-150	
Methyl tert-butyl ether	5.00	4.84 J	97	0	21	46-135	
m-Xylene & p-Xylene	10.0	9.00	90	2	20	74-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water Level: Low Lab File ID: H9099.D

Lab ID: 280-36712-4 MSD Client ID: MW-20 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	5.00	4.49	90	2	32	48-135	
n-Butylbenzene	5.00	4.41	88	2	21	67-135	
n-Propylbenzene	5.00	4.42	88	0	20	69-135	
o-Xylene	5.00	4.45	89	1	20	73-135	
sec-Butylbenzene	5.00	4.55	91	0	21	68-135	
Styrene	5.00	3.46	69	26	20	68-135	F
tert-Butylbenzene	5.00	4.50	90	2	21	70-135	
1,1,1,2-Tetrachloroethane	5.00	4.46	89	1	20	73-135	
1,1,2,2-Tetrachloroethane	5.00	4.64	93	2	20	66-135	
Tetrachloroethene	5.00	4.51	90	1	20	70-135	
Toluene	5.00	4.63	93	2	20	73-120	
trans-1,2-Dichloroethene	5.00	4.59	92	2	24	75-135	
trans-1,3-Dichloropropene	5.00	5.00	100	2	20	68-135	
1,2,3-Trichlorobenzene	5.00	4.33	87	2	29	60-135	
1,2,4-Trichlorobenzene	5.00	4.60	92	1	25	64-135	
1,1,1-Trichloroethane	5.00	4.77	95	0	20	70-135	
1,1,2-Trichloroethane	5.00	4.84	97	8	21	73-135	
Trichloroethene	5.00	4.43	89	1	20	73-135	
Trichlorofluoromethane	5.00	4.63	93	1	20	47-150	
1,2,3-Trichloropropane	5.00	5.01	100	2	23	68-135	
1,2,4-Trimethylbenzene	5.00	4.27	85	3	20	72-135	
1,3,5-Trimethylbenzene	5.00	4.30	86	3	20	70-135	
Vinyl chloride	5.00	4.42	88	2	24	40-144	
Xylenes, Total	15.0	13.4	90	1	20	75-135	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab File ID: H9095.D Lab Sample ID: MB 280-151489/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: VMS_H Date Analyzed: 12/11/2012 07:21

GC Column: DB-624 (75.53) ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-151489/4	H9093.D	12/11/2012 06:37
	LCSD 280-151489/5	H9094.D	12/11/2012 06:59
TRIP BLANK	280-36712-15	H9096.D	12/11/2012 07:45
MW-20	280-36712-4	H9097.D	12/11/2012 08:07
MW-20 MS	280-36712-4 MS	H9098.D	12/11/2012 08:29
MW-20 MSD	280-36712-4 MSD	H9099.D	12/11/2012 08:51
MW-18	280-36712-1	H9100.D	12/11/2012 09:14
MW-22	280-36712-2	H9101.D	12/11/2012 09:36
MW-21	280-36712-3	H9102.D	12/11/2012 09:58
MW-10	280-36712-5	H9103.D	12/11/2012 10:21
MW-19	280-36712-6	H9104.D	12/11/2012 10:43
MW-9	280-36712-7	H9105.D	12/11/2012 11:05
MW-16	280-36712-8	H9106.D	12/11/2012 11:27
INJ-E	280-36712-12	H9108.D	12/11/2012 12:12
INJ-W	280-36712-10	H9110.D	12/11/2012 12:57
INJ-S	280-36712-11	H9111.D	12/11/2012 13:19
INJ-N	280-36712-13	H9112.D	12/11/2012 13:42
MW-17	280-36712-9	H9113.D	12/11/2012 14:04
DUP-1	280-36712-14	H9114.D	12/11/2012 14:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab File ID: H8879.D BFB Injection Date: 12/03/2012

Instrument ID: VMS_H BFB Injection Time: 13:57

Analysis Batch No.: 150224

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
75	30.0 - 60.0 % of mass 95	43.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	74.5	
175	5.0 - 9.0 % of mass 174	5.3	(7.1)1
176	95.0 - 101.0 % of mass 174	73.5	(98.7)1
177	5.0 - 9.0 % of mass 176	5.1	(6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD003 280-150224/2	H8880.D	12/03/2012	14:05
	STD01 280-150224/3	H8881.D	12/03/2012	14:27
	STD02 280-150224/4	H8882.D	12/03/2012	14:49
	STD05 280-150224/5	H8883.D	12/03/2012	15:11
	STD10 280-150224/6	H8884.D	12/03/2012	15:33
	STD30 280-150224/7	H8885.D	12/03/2012	15:55
	STD60 280-150224/8	H8886.D	12/03/2012	16:17
	STD01 280-150224/9	H8887.D	12/03/2012	16:39
	STD02 280-150224/10	H8888.D	12/03/2012	17:01
	STD05 280-150224/11	H8889.D	12/03/2012	17:23
	ICIS 280-150224/12	H8890.D	12/03/2012	17:45
	STD30 280-150224/13	H8891.D	12/03/2012	18:07
	STD60 280-150224/14	H8892.D	12/03/2012	18:29
	ICV 280-150224/16	H8894.D	12/03/2012	19:12

Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 280-36712-1

Login Number: 36712

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab File ID: H8917.D BFB Injection Date: 12/04/2012

Instrument ID: VMS_H BFB Injection Time: 07:51

Analysis Batch No.: 150267

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.4	
75	30.0 - 60.0 % of mass 95	42.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	74.9	
175	5.0 - 9.0 % of mass 174	5.3	(7.1)1
176	95.0 - 101.0 % of mass 174	72.9	(97.3)1
177	5.0 - 9.0 % of mass 176	5.1	(7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 280-150267/2	H8920.D	12/04/2012	08:44

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab File ID: H9090.D BFB Injection Date: 12/11/2012

Instrument ID: VMS_H BFB Injection Time: 05:45

Analysis Batch No.: 151489

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.2	
75	30.0 - 60.0 % of mass 95	42.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	71.0	
175	5.0 - 9.0 % of mass 174	5.1	(7.2)1
176	95.0 - 101.0 % of mass 174	69.3	(97.6)1
177	5.0 - 9.0 % of mass 176	4.6	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-151489/2	H9091.D	12/11/2012	05:53
	CCV 280-151489/3	H9092.D	12/11/2012	06:15
	LCS 280-151489/4	H9093.D	12/11/2012	06:37
	LCSD 280-151489/5	H9094.D	12/11/2012	06:59
	MB 280-151489/6	H9095.D	12/11/2012	07:21
TRIP BLANK	280-36712-15	H9096.D	12/11/2012	07:45
MW-20	280-36712-4	H9097.D	12/11/2012	08:07
MW-20 MS	280-36712-4 MS	H9098.D	12/11/2012	08:29
MW-20 MSD	280-36712-4 MSD	H9099.D	12/11/2012	08:51
MW-18	280-36712-1	H9100.D	12/11/2012	09:14
MW-22	280-36712-2	H9101.D	12/11/2012	09:36
MW-21	280-36712-3	H9102.D	12/11/2012	09:58
MW-10	280-36712-5	H9103.D	12/11/2012	10:21
MW-19	280-36712-6	H9104.D	12/11/2012	10:43
MW-9	280-36712-7	H9105.D	12/11/2012	11:05
MW-16	280-36712-8	H9106.D	12/11/2012	11:27
INJ-E	280-36712-12	H9108.D	12/11/2012	12:12
INJ-W	280-36712-10	H9110.D	12/11/2012	12:57
INJ-S	280-36712-11	H9111.D	12/11/2012	13:19
INJ-N	280-36712-13	H9112.D	12/11/2012	13:42
MW-17	280-36712-9	H9113.D	12/11/2012	14:04
DUP-1	280-36712-14	H9114.D	12/11/2012	14:26

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Sample No.: ICIS 280-150224/12 Date Analyzed: 12/03/2012 17:45

Instrument ID: VMS_H GC Column: DB-624 (75.53) ID: 0.53(mm)

Lab File ID (Standard): H8890.D Heated Purge: (Y/N) N

Calibration ID: 11821

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1332238	7.58	272841	11.92	437833	14.72
UPPER LIMIT		2664476	8.08	545682	12.42	875666	15.22
LOWER LIMIT		666119	7.08	136421	11.42	218917	14.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-150224/16		1433299	7.58	291012	11.91	464082	14.72
ICV 280-150267/2		1366137	7.61	279341	11.95	482819	14.73
CCV 280-151489/2		1958330	7.59	400938	11.93	703421	14.73
CCV 280-151489/3		2032069	7.60	437109	11.93	701145	14.74
LCS 280-151489/4		2008546	7.60	413956	11.95	707814	14.73
LCSD 280-151489/5		2069287	7.60	417614	11.93	730543	14.74
MB 280-151489/6		2024390	7.60	432823	11.93	690319	14.73
280-36712-15	TRIP BLANK	2057672	7.60	435377	11.95	689288	14.73
280-36712-4	MW-20	2067300	7.60	445371	11.95	712846	14.73
280-36712-4 MS	MW-20 MS	2004754	7.60	412068	11.95	701277	14.73
280-36712-4 MSD	MW-20 MSD	2028360	7.60	414300	11.95	711580	14.73
280-36712-1	MW-18	2065827	7.61	442417	11.94	711291	14.73
280-36712-2	MW-22	2119932	7.60	465157	11.95	747309	14.73
280-36712-3	MW-21	2157215	7.60	455544	11.95	752005	14.74
280-36712-5	MW-10	2251120	7.61	477690	11.95	777122	14.73
280-36712-6	MW-19	2212216	7.61	478219	11.95	758186	14.75
280-36712-7	MW-9	2198173	7.61	488739	11.95	779706	14.75
280-36712-8	MW-16	2122148	7.61	447783	11.94	731558	14.75
280-36712-12	INJ-E	2285459	7.61	489645	11.95	779451	14.74
280-36712-10	INJ-W	2265127	7.61	487245	11.94	782886	14.75
280-36712-11	INJ-S	2230355	7.62	479988	11.95	751242	14.75
280-36712-13	INJ-N	2238320	7.61	477932	11.95	753951	14.75
280-36712-9	MW-17	2277733	7.61	497644	11.95	782767	14.75
280-36712-14	DUP-1	2241985	7.61	480896	11.95	775993	14.75

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-18 | Lab Sample ID: 280-36712-1

Matrix: Water | Lab File ID: H9100.D

Analysis Method: 8260B | Date Collected: 12/04/2012 13:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 09:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-18 | Lab Sample ID: 280-36712-1

Matrix: Water | Lab File ID: H9100.D

Analysis Method: 8260B | Date Collected: 12/04/2012 13:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 09:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.23	J B	1.0	0.22
104-51-8	n-Butylbenzene	0.32	U	1.0	0.32
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.27	J	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.73	J	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.22	J B	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-18 Lab Sample ID: 280-36712-1

Matrix: Water Lab File ID: H9100.D

Analysis Method: 8260B Date Collected: 12/04/2012 13:20

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 09:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		78-120
1868-53-7	Dibromofluoromethane (Surr)	100		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
2037-26-5	Toluene-d8 (Surr)	95		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9100.D
Lims ID: 280-36712-A-1 Client ID: MW-18
Inject. Date: 11-Dec-2012 09:14:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-A-1
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 10
Lims Batch ID: 151489 Lims Sample ID: 11
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 09:55:23

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.609	7.598	0.011	98	2065827	12.5	
* 2 Chlorobenzene-d5	119	11.944	11.933	0.011	89	442417	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.730	14.736	-0.006	97	711291	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.756	6.745	0.011	59	858344	9.04	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.192	7.181	0.011	94	377958	9.11	
$ 7 Toluene-d8 (Surr)	98	9.733	9.722	0.011	80	1843049	8.56	
$ 8 4-Bromofluorobenzene (Surr)	95	13.442	13.431	0.011	85	1116502	9.75	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43		4.215					
52 Methylene Chloride	84		4.685					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					19
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					19
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					19
76 Carbon tetrachloride	117		7.000					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					129
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					39
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					19
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					19
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105		13.929					
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119	14.295	14.295	0.0	93	156552	0.7251	
123 1,2,4-Trimethylbenzene	105		14.347					
124 sec-Butylbenzene	134	14.521	14.521	0.0	81	15658	0.2694	
126 1,3-Dichlorobenzene	146		14.660					19
125 4-Isopropyltoluene	119		14.678					
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128	16.941	16.924	0.017	18	19462	0.2281	
135 1,2,3-Trichlorobenzene	180	17.185	17.167	0.018	16	14872	0.2156	
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
2 - Failed Coelution Test
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

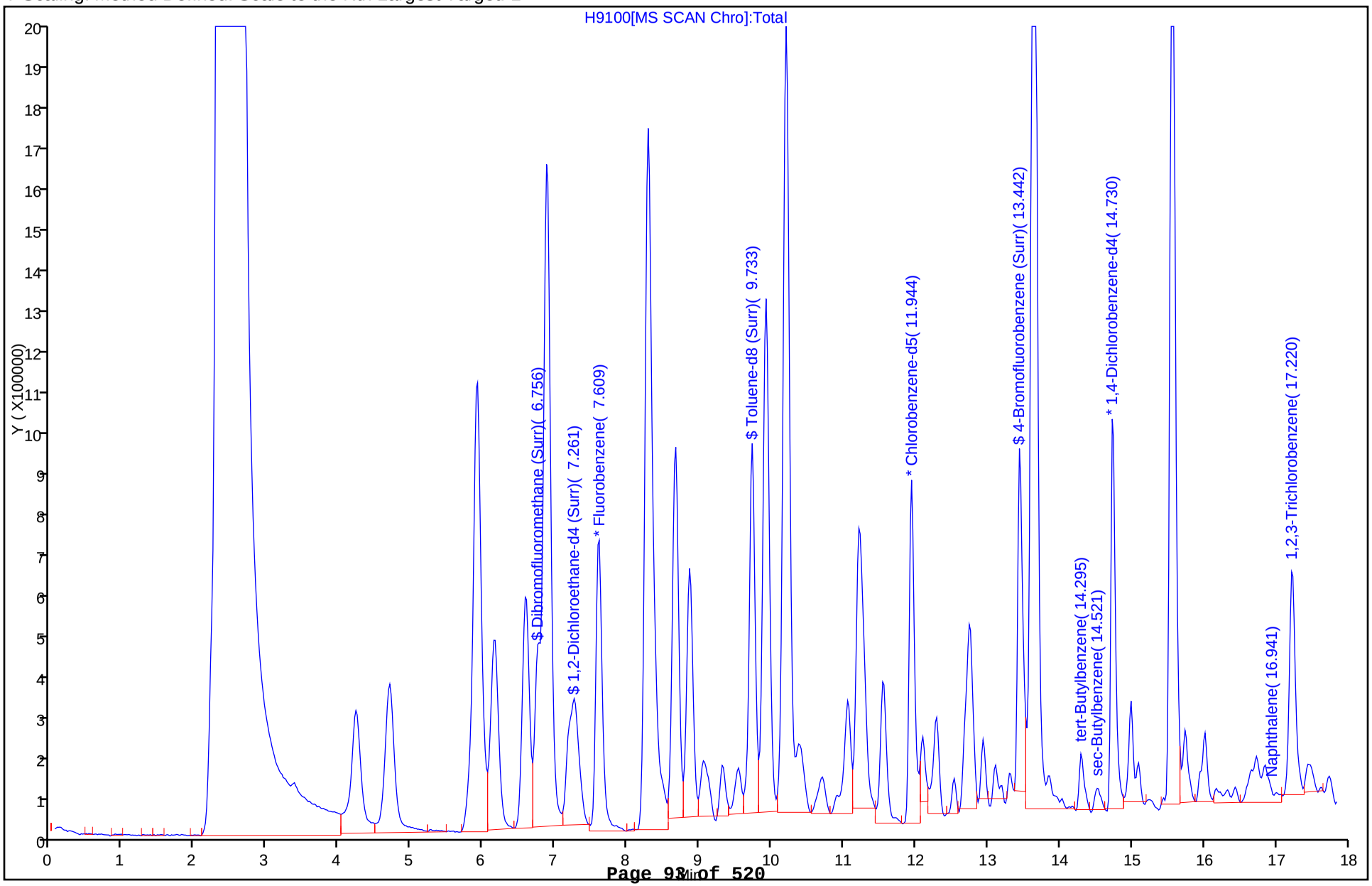
Report Date: 12-Dec-2012 05:43:40 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9100.D

Injection Date:	11-Dec-2012 09:14:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-18	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	11
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



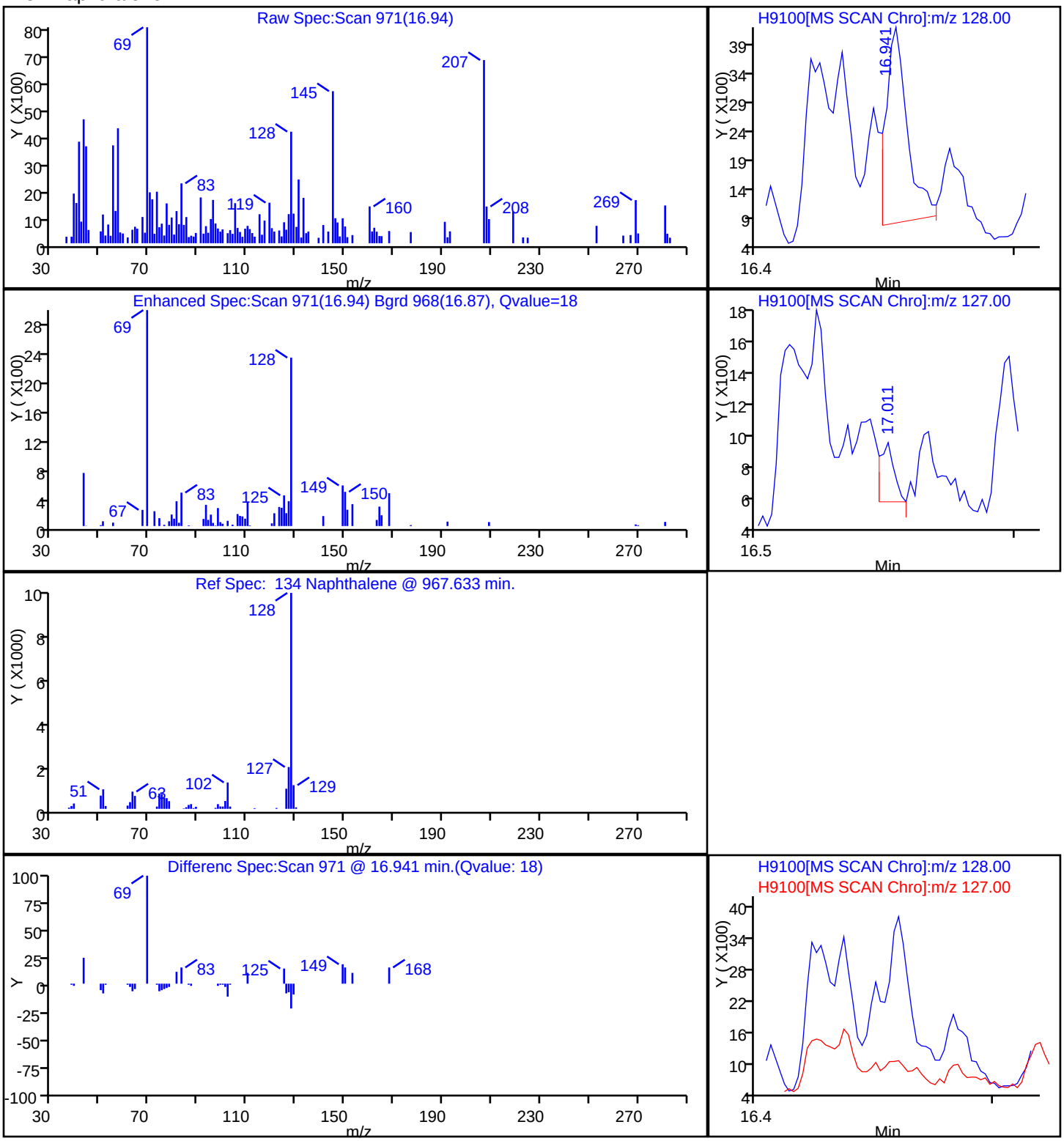
Report Date: 12-Dec-2012 05:43:40 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9100.D

Injection Date:	11-Dec-2012 09:14:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-18	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	11
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

134 Naphthalene



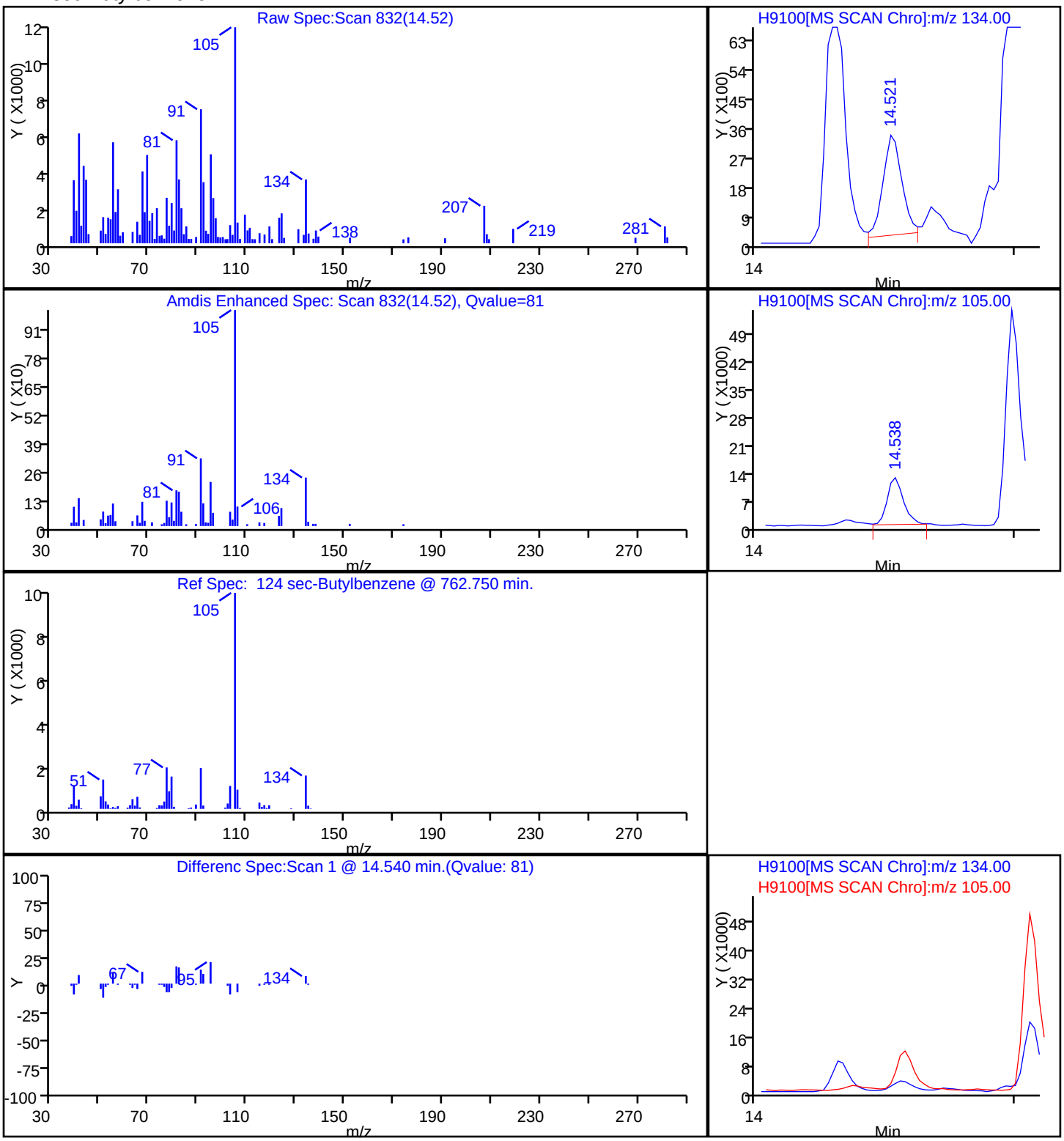
Report Date: 12-Dec-2012 05:43:40 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9100.D

Injection Date:	11-Dec-2012 09:14:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-18	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	11
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

124 sec-Butylbenzene



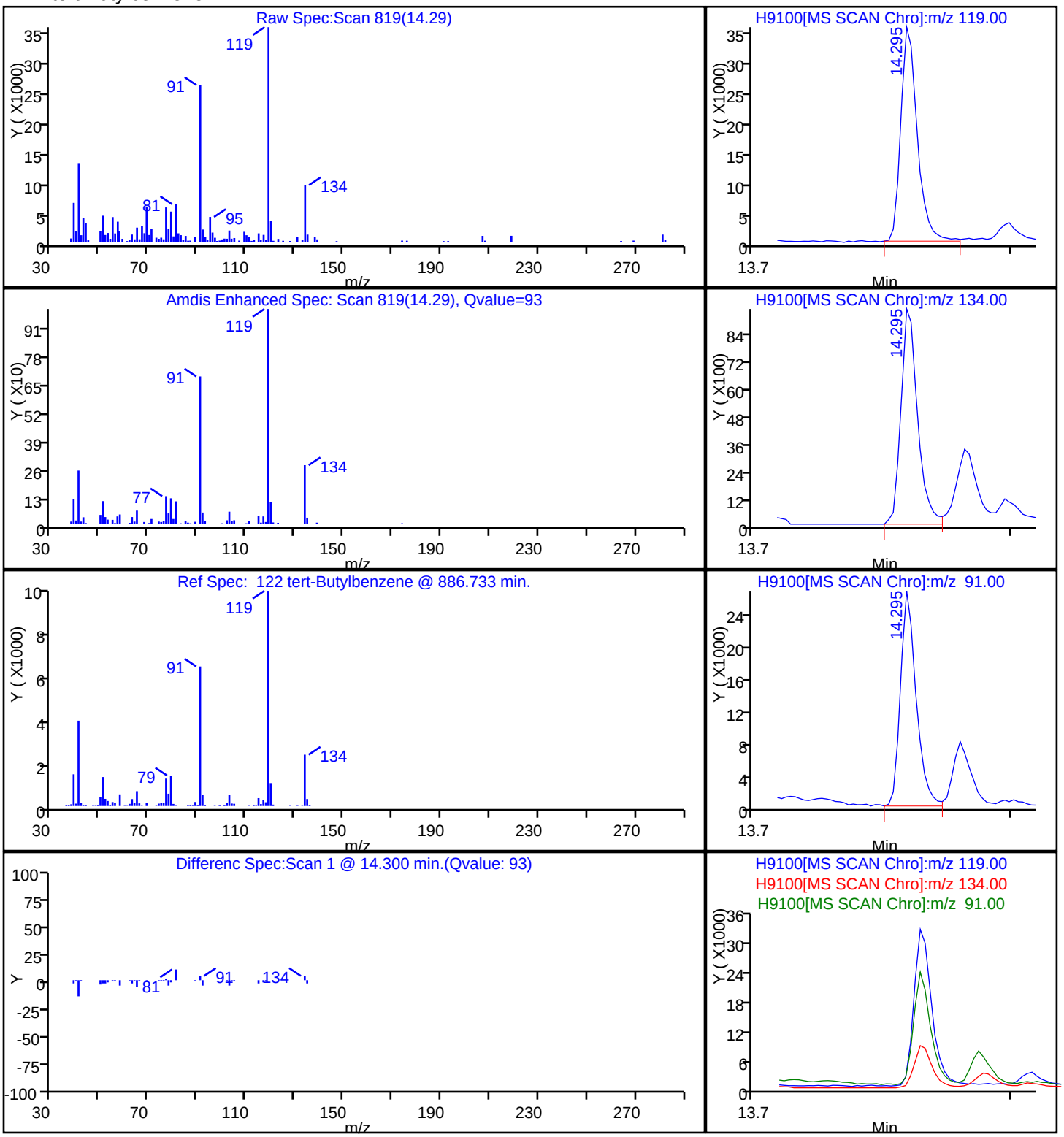
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9100.D

Injection Date:	11-Dec-2012 09:14:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-18	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	11
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

122 tert-Butylbenzene

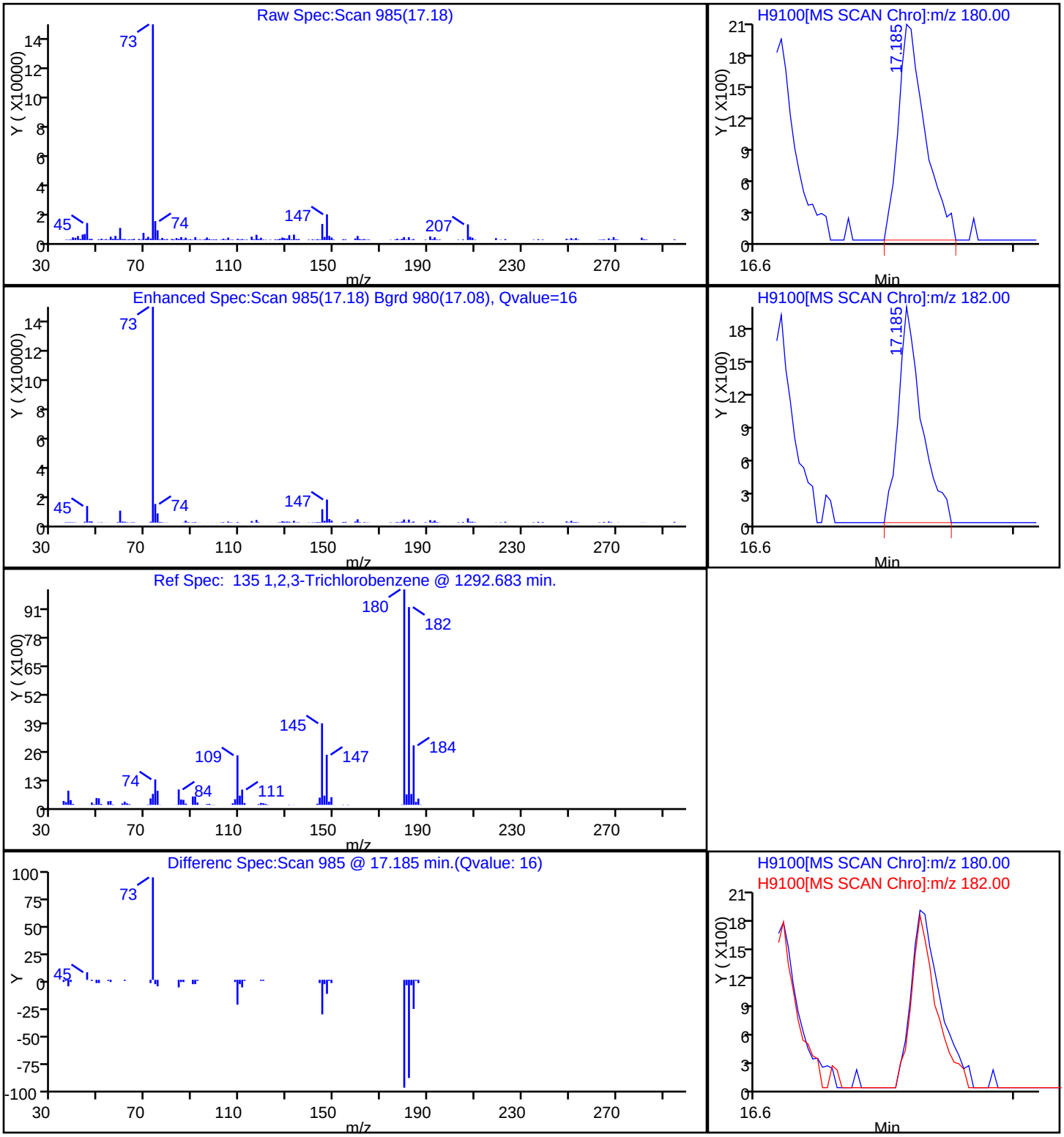


Report Date: 12-Dec-2012 05:43:40 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20121211-7200.b\H9100.D		
Injection Date:	11-Dec-2012 09:14:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-18	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	11
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

135 1,2,3-Trichlorobenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-22 | Lab Sample ID: 280-36712-2

Matrix: Water | Lab File ID: H9101.D

Analysis Method: 8260B | Date Collected: 12/04/2012 14:05

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 09:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	4.1		1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	2.8		1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-22 | Lab Sample ID: 280-36712-2

Matrix: Water | Lab File ID: H9101.D

Analysis Method: 8260B | Date Collected: 12/04/2012 14:05

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 09:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	1.5		1.0	0.19
99-87-6	4-Isopropyltoluene	0.28	J	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.23	J B	1.0	0.22
104-51-8	n-Butylbenzene	1.1		1.0	0.32
103-65-1	n-Propylbenzene	4.4		1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	3.2		1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.35	J	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.83	J	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.48	J	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-22 Lab Sample ID: 280-36712-2

Matrix: Water Lab File ID: H9101.D

Analysis Method: 8260B Date Collected: 12/04/2012 14:05

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 09:36

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		78-120
1868-53-7	Dibromofluoromethane (Surr)	102		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
2037-26-5	Toluene-d8 (Surr)	95		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D
Lims ID: 280-36712-B-2 Client ID: MW-22
Inject. Date: 11-Dec-2012 09:36:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-B-2
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 11
Lims Batch ID: 151489 Lims Sample ID: 12
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 09:57:34

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.595	7.598	-0.003	99	2119932	12.5	
* 2 Chlorobenzene-d5	119	11.948	11.933	0.015	90	465157	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.733	14.736	-0.003	89	747309	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.760	6.745	0.015	59	891316	9.15	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.177	7.181	-0.004	94	403358	9.48	
$ 7 Toluene-d8 (Surr)	98	9.737	9.722	0.015	79	1940701	8.57	
$ 8 4-Bromofluorobenzene (Surr)	95	13.445	13.431	0.014	85	1067011	8.87	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					19
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					19
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43		4.215					
52 Methylene Chloride	84		4.685					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					19
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78	7.265	7.244	0.021	95	812757	4.10	
78 1,2-Dichloroethane	62		7.279					3
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					19
88 Dichlorobromomethane	83		8.741					39
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					
105 Ethylbenzene	106	12.122	12.119	0.003	98	238860	2.79	
107 m-Xylene & p-Xylene	106		12.275					1
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					19
111 Isopropylbenzene	105	13.236	13.233	0.003	95	445334	1.52	
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120	13.741	13.720	0.021	93	308262	4.36	
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105	13.863	13.929	-0.066	66	105712	0.4821	
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119	14.298	14.295	0.003	88	80217	0.3537	
123 1,2,4-Trimethylbenzene	105	14.350	14.347	0.003	92	173648	0.8277	
124 sec-Butylbenzene	134	14.507	14.521	-0.014	90	196938	3.22	
126 1,3-Dichlorobenzene	146		14.660					19
125 4-Isopropyltoluene	119	14.681	14.678	0.003	17	70670	0.2819	
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91	15.081	15.096	-0.015	49	304367	1.15	
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128	16.927	16.924	0.003	47	20278	0.2262	
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

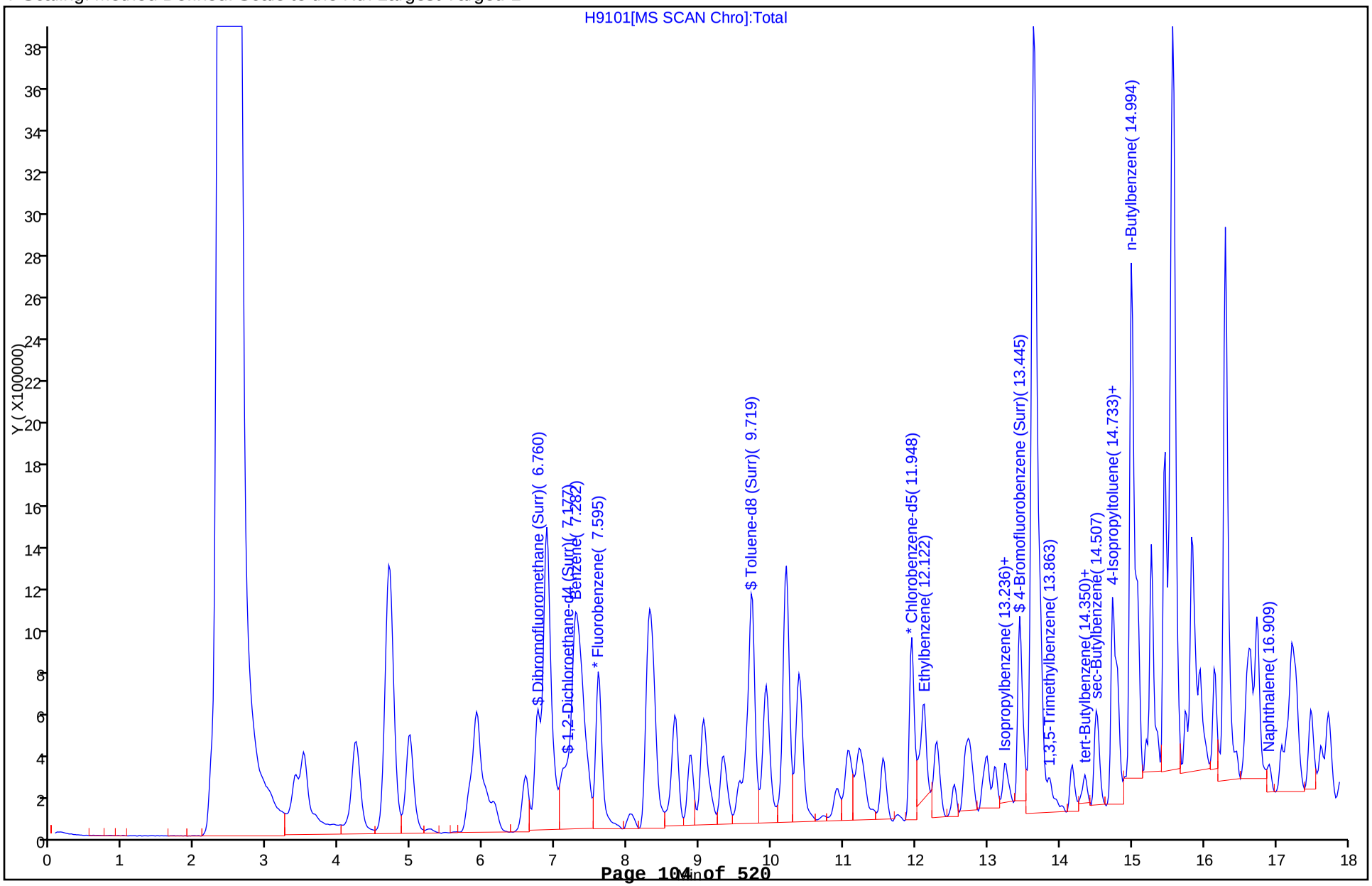
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



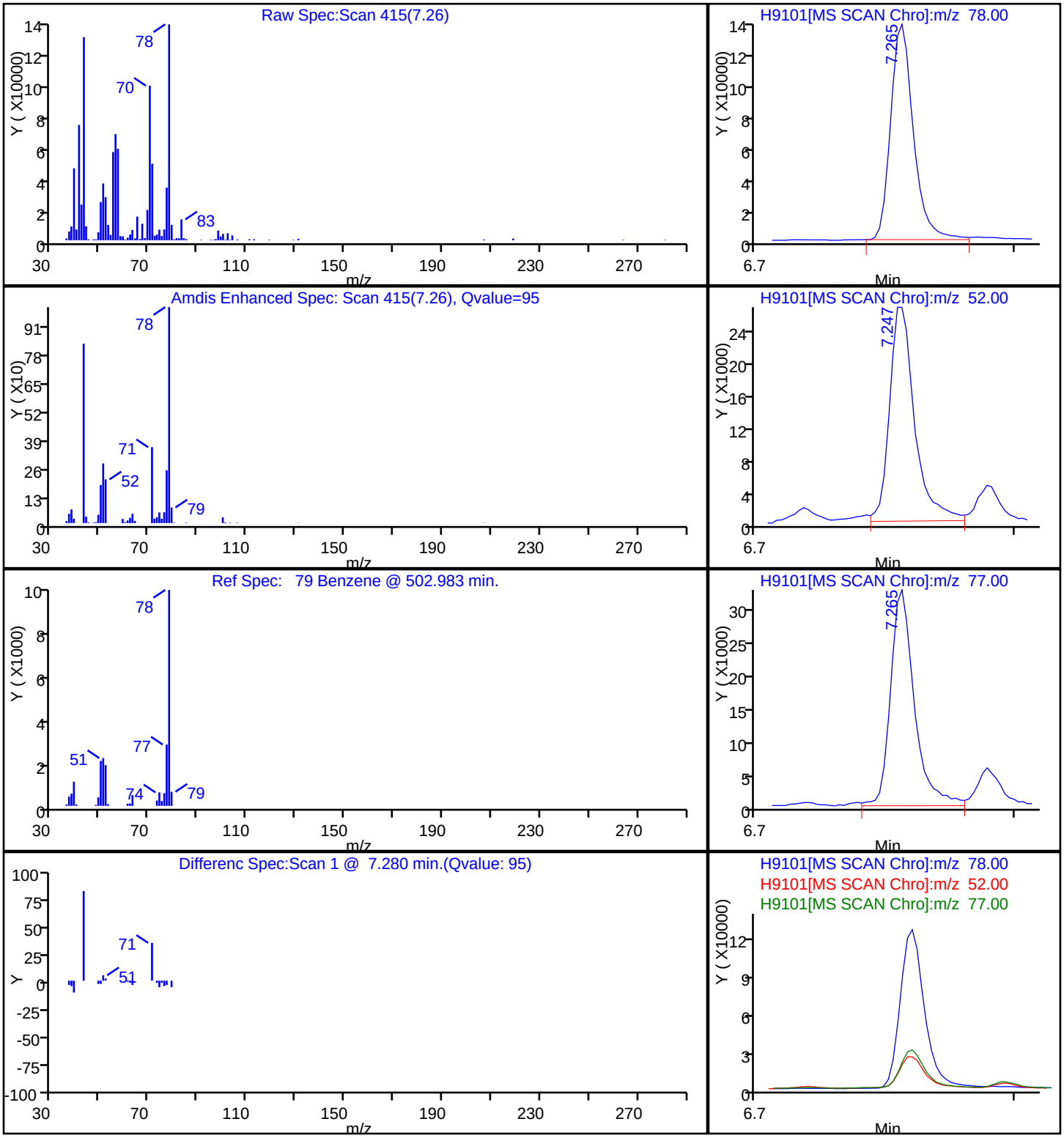
Report Date: 12-Dec-2012 05:43:41 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

79 Benzene



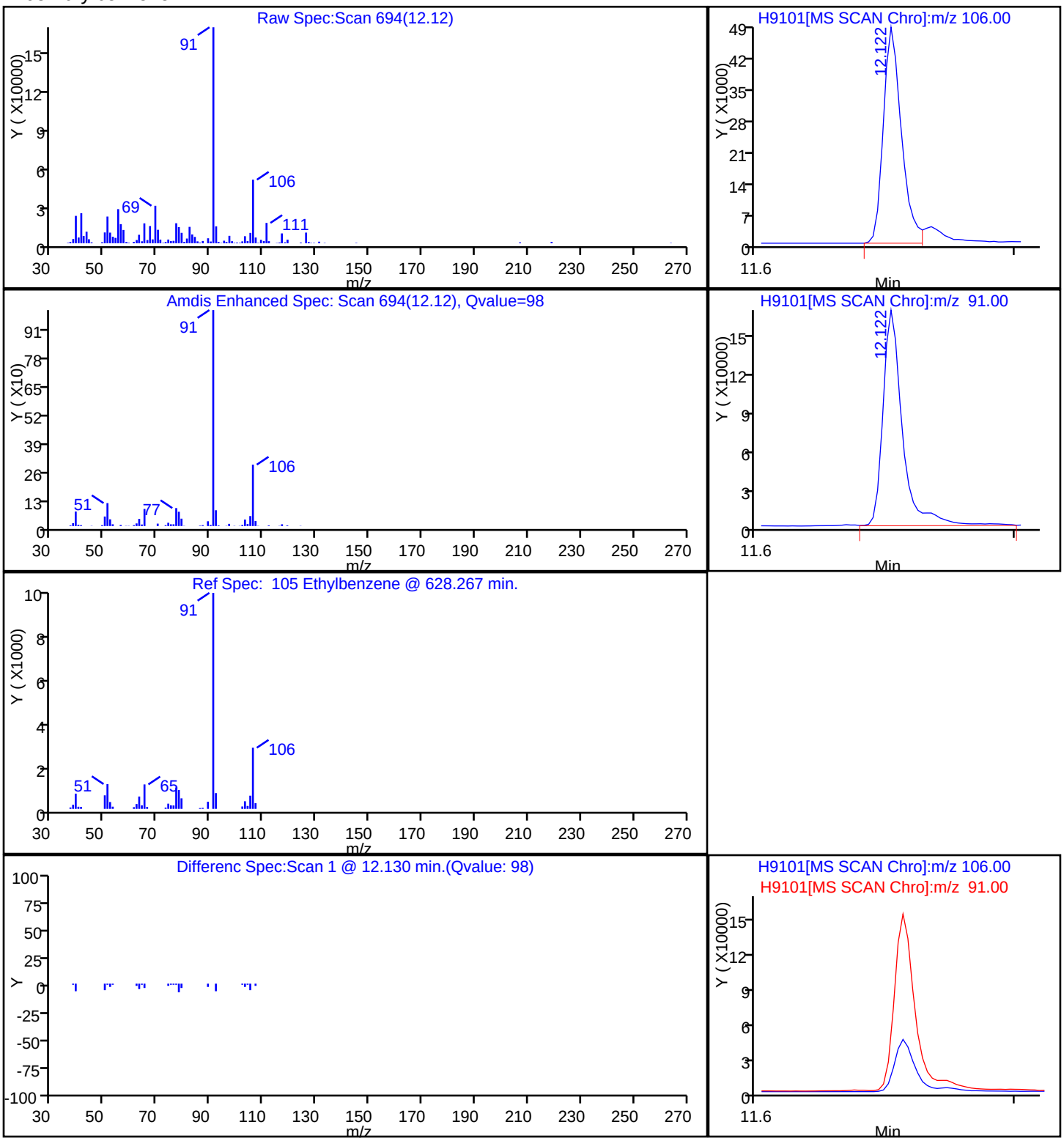
Report Date: 12-Dec-2012 05:43:41 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

105 Ethylbenzene



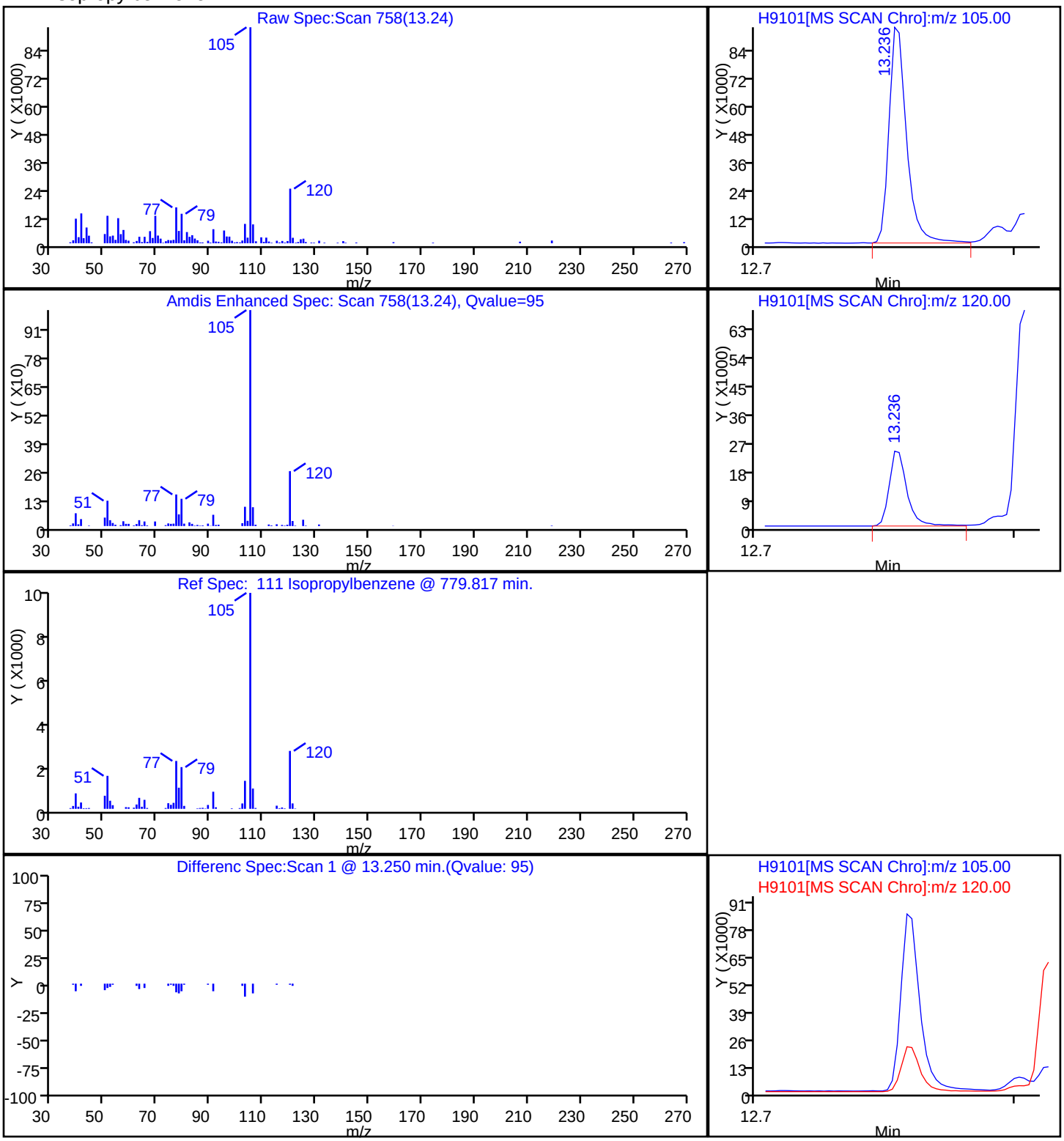
Report Date: 12-Dec-2012 05:43:41 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

111 Isopropylbenzene



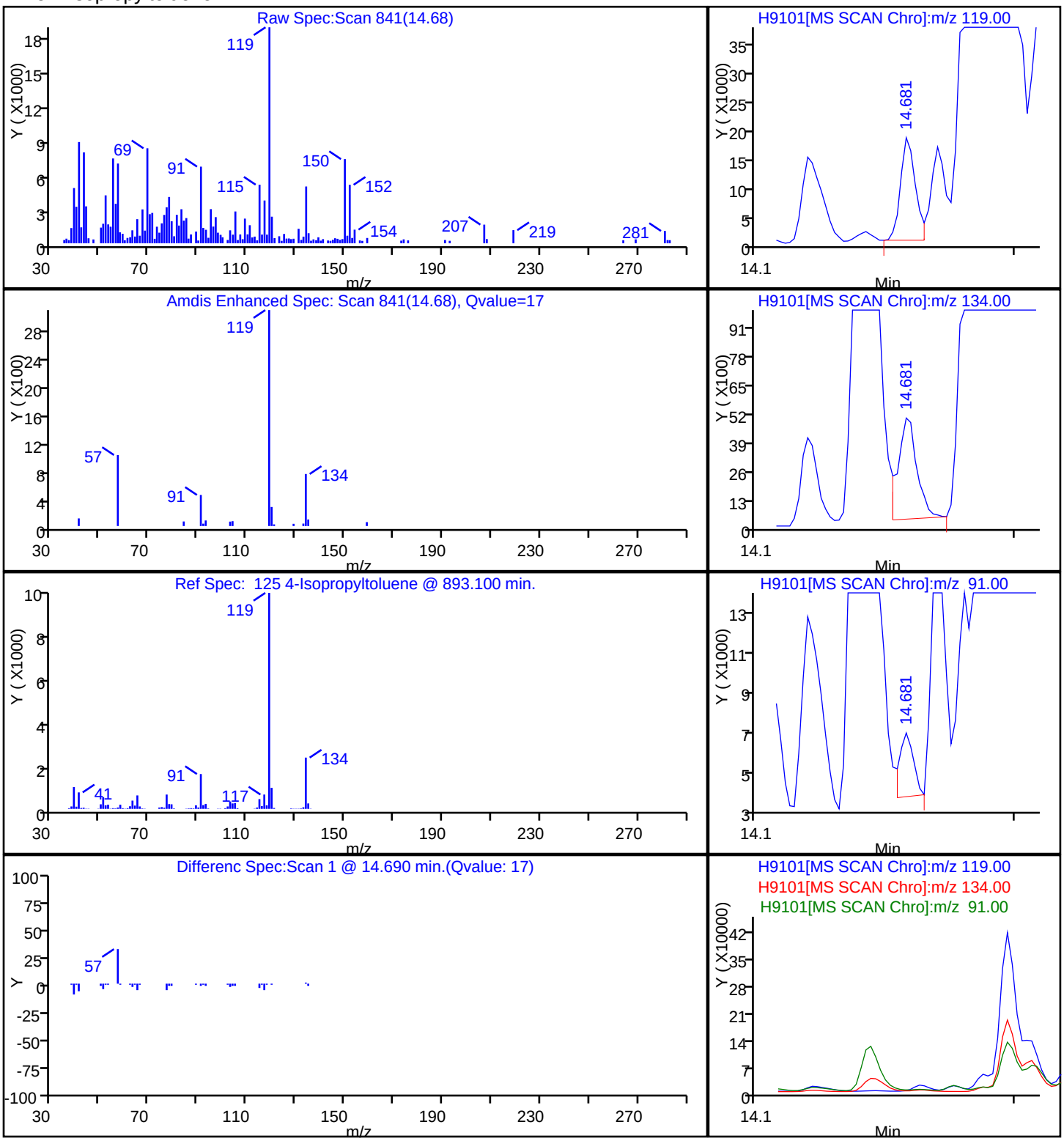
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

125 4-Isopropyltoluene



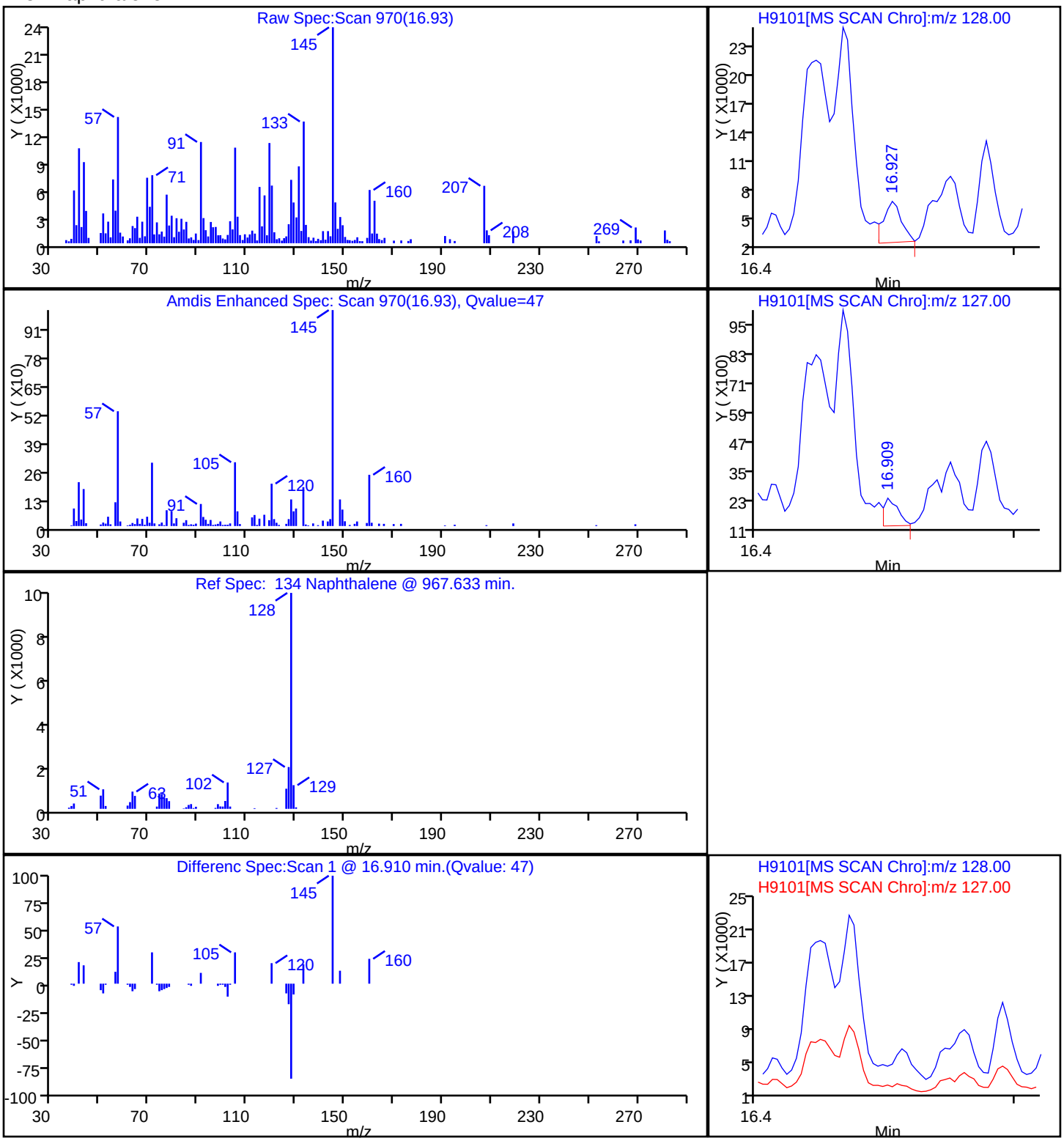
Report Date: 12-Dec-2012 05:43:42 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

134 Naphthalene



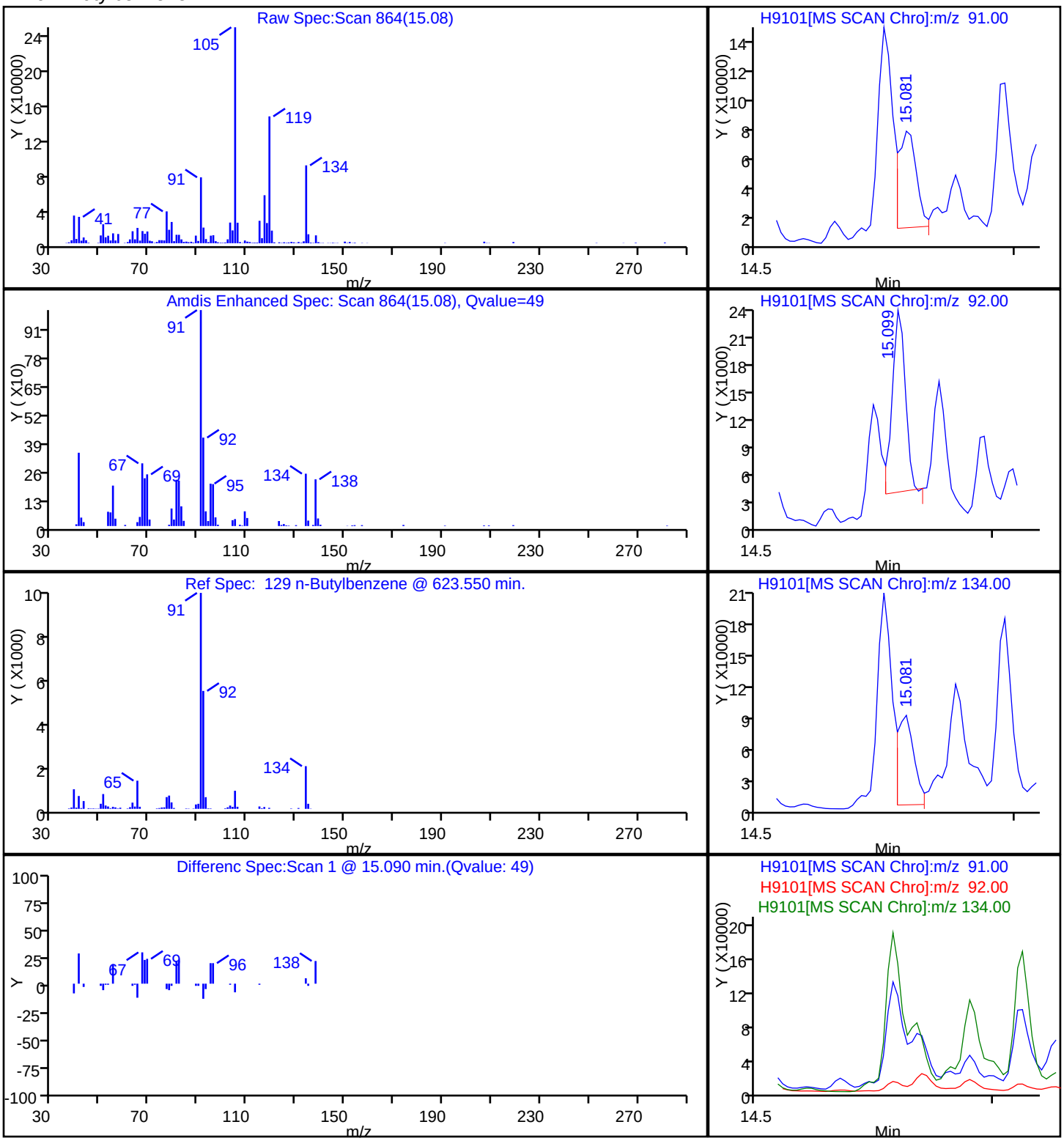
Report Date: 12-Dec-2012 05:43:42 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

129 n-Butylbenzene



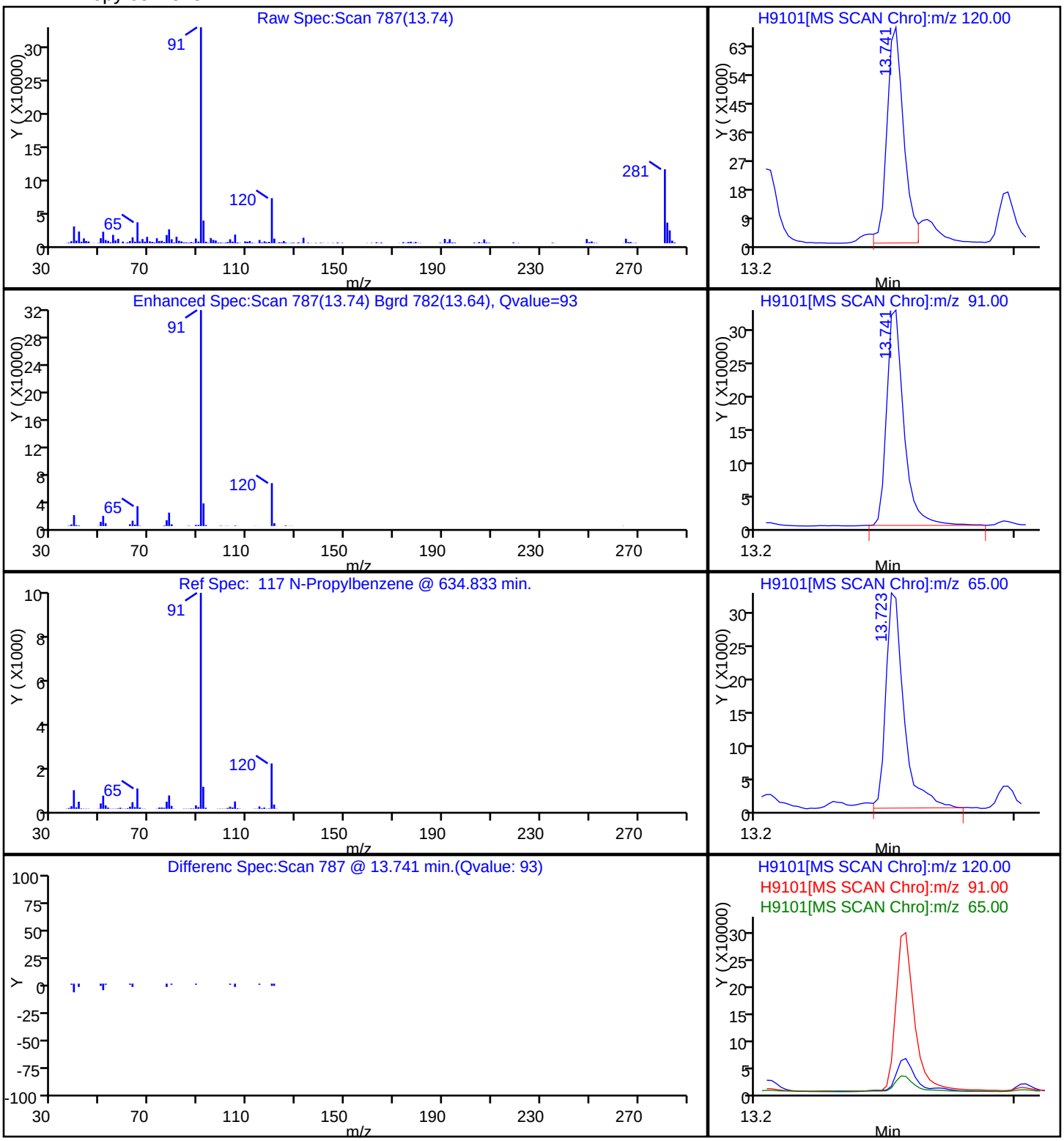
Report Date: 12-Dec-2012 05:43:41 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

117 N-Propylbenzene



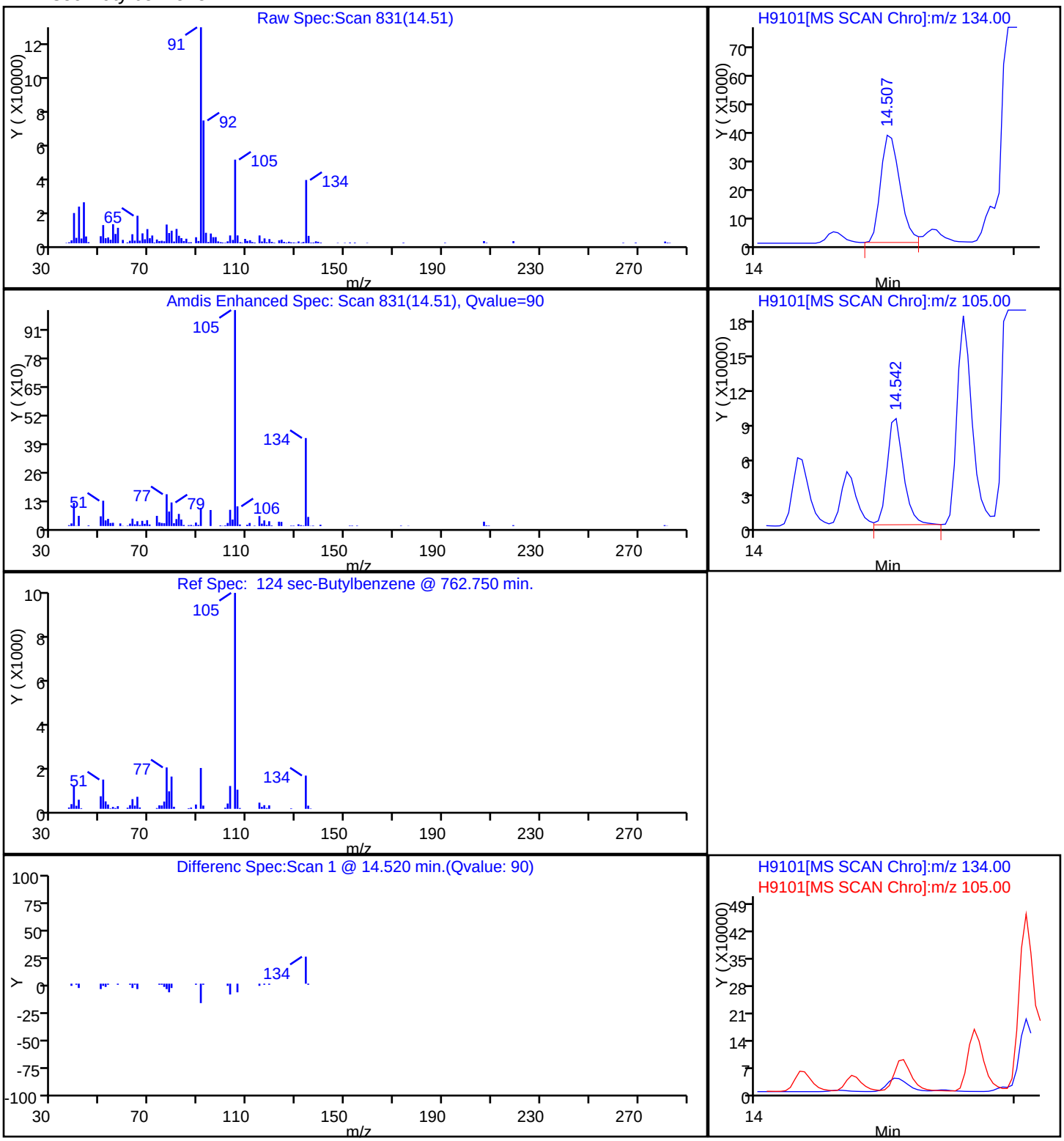
Report Date: 12-Dec-2012 05:43:42 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

124 sec-Butylbenzene



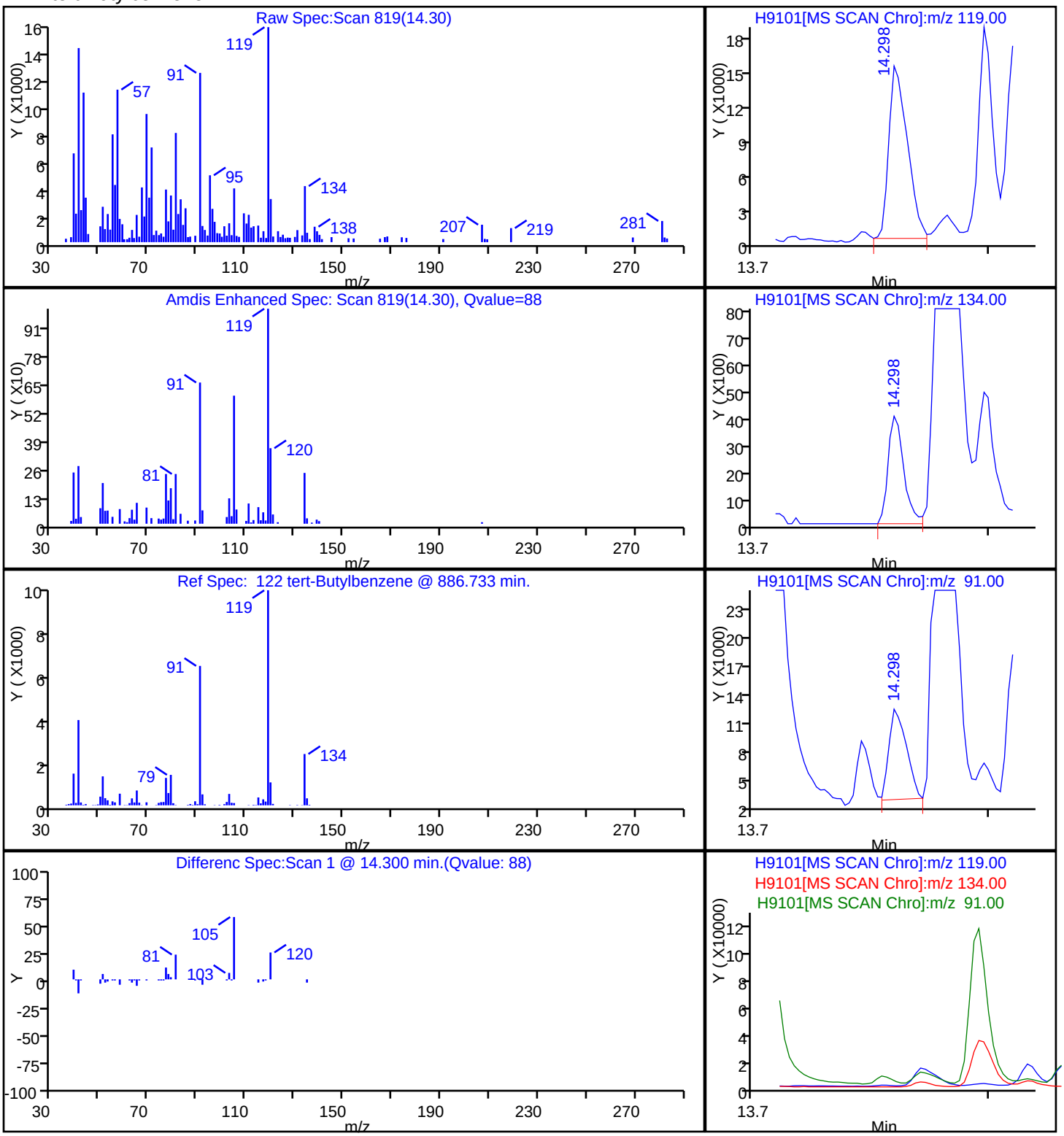
Report Date: 12-Dec-2012 05:43:42 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

122 tert-Butylbenzene



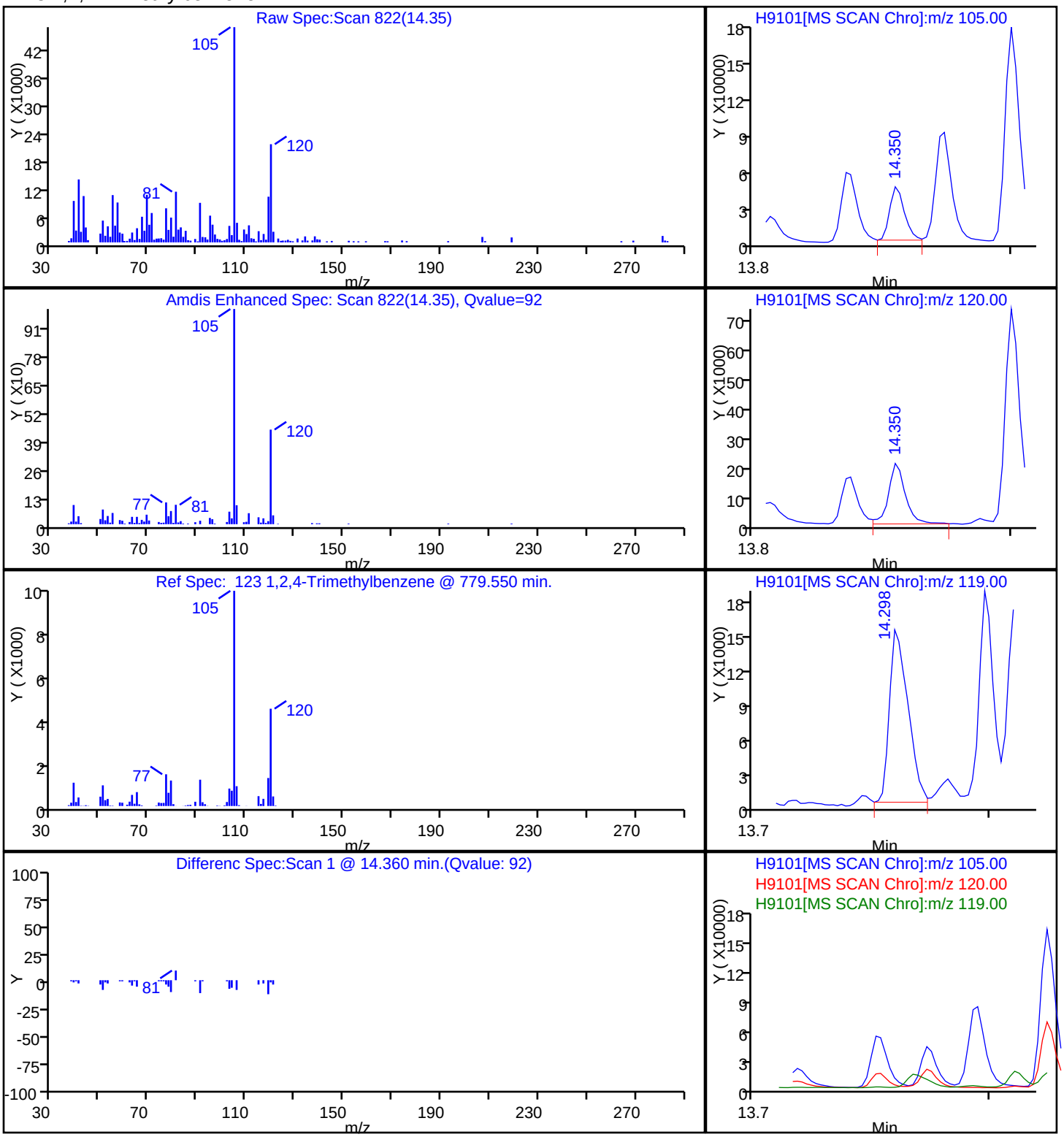
Report Date: 12-Dec-2012 05:43:42 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

123 1,2,4-Trimethylbenzene



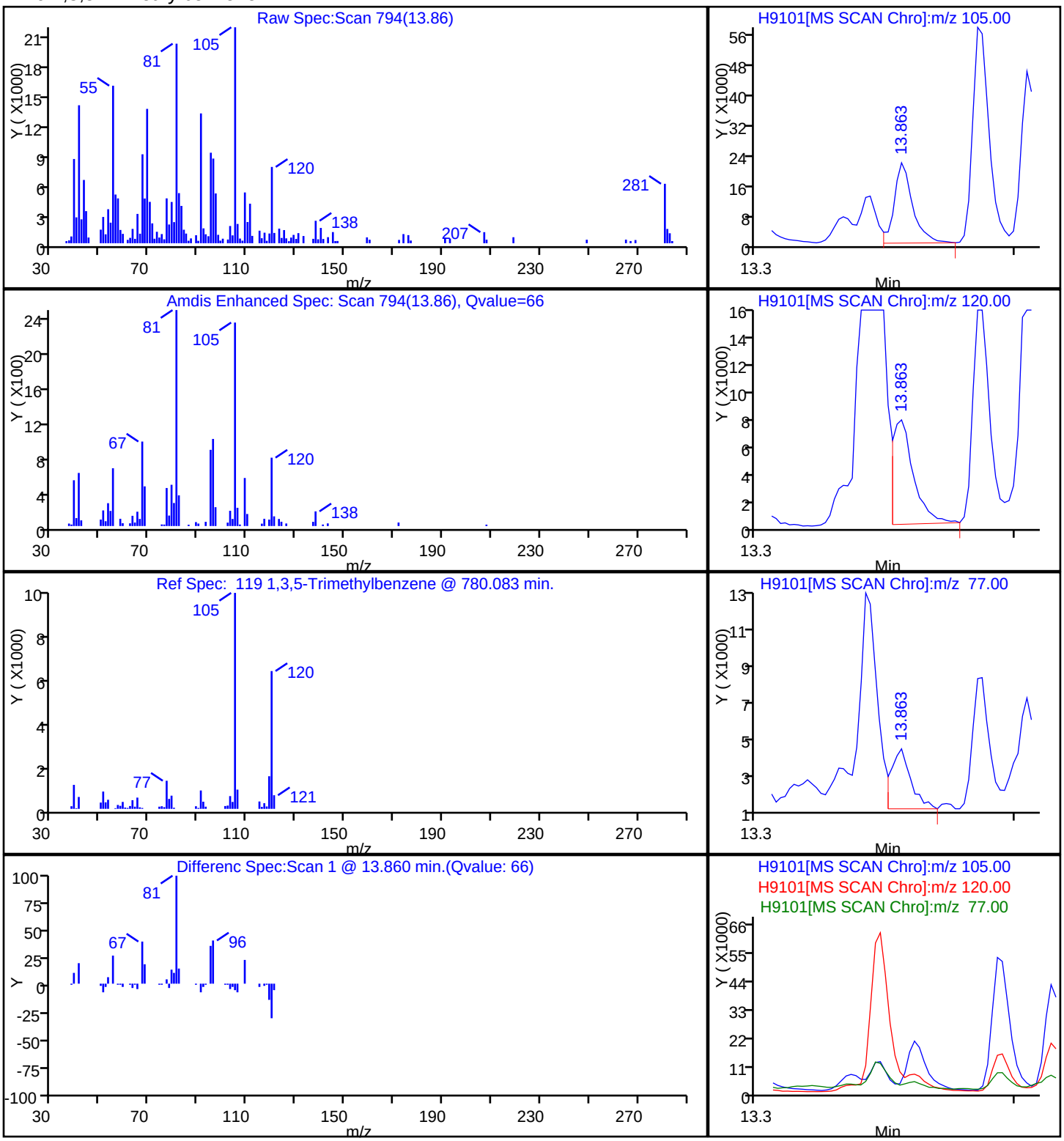
Report Date: 12-Dec-2012 05:43:42 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9101.D

Injection Date:	11-Dec-2012 09:36:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-22	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

119 1,3,5-Trimethylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-21 | Lab Sample ID: 280-36712-3

Matrix: Water | Lab File ID: H9102.D

Analysis Method: 8260B | Date Collected: 12/04/2012 14:50

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 09:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-21 | Lab Sample ID: 280-36712-3

Matrix: Water | Lab File ID: H9102.D

Analysis Method: 8260B | Date Collected: 12/04/2012 14:50

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 09:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.32	U	1.0	0.32
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-21 Lab Sample ID: 280-36712-3

Matrix: Water Lab File ID: H9102.D

Analysis Method: 8260B Date Collected: 12/04/2012 14:50

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 09:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		78-120
1868-53-7	Dibromofluoromethane (Surr)	105		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
2037-26-5	Toluene-d8 (Surr)	103		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9102.D
Lims ID: 280-36712-C-3 Client ID: MW-21
Inject. Date: 11-Dec-2012 09:58:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-C-3
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 12
Lims Batch ID: 151489 Lims Sample ID: 13
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 10:31:25

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.597	7.598	-0.001	98	2157215	12.5	
* 2 Chlorobenzene-d5	119	11.950	11.933	0.017	89	455544	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.735	14.736	-0.001	97	752005	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.762	6.745	0.017	76	937939	9.46	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.179	7.181	-0.002	95	412339	9.52	
$ 7 Toluene-d8 (Surr)	98	9.739	9.722	0.017	93	2058645	9.28	
$ 8 4-Bromofluorobenzene (Surr)	95	13.447	13.431	0.016	86	1072728	8.86	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					19
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43		4.215					
52 Methylene Chloride	84		4.685					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					19
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43		6.164					19
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					19
76 Carbon tetrachloride	117		7.000					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					19
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					19
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					349
120 2-Chlorotoluene	126		13.842					19
119 1,3,5-Trimethylbenzene	105		13.929					19
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					19
123 1,2,4-Trimethylbenzene	105		14.347					19
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119		14.678					
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					19
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

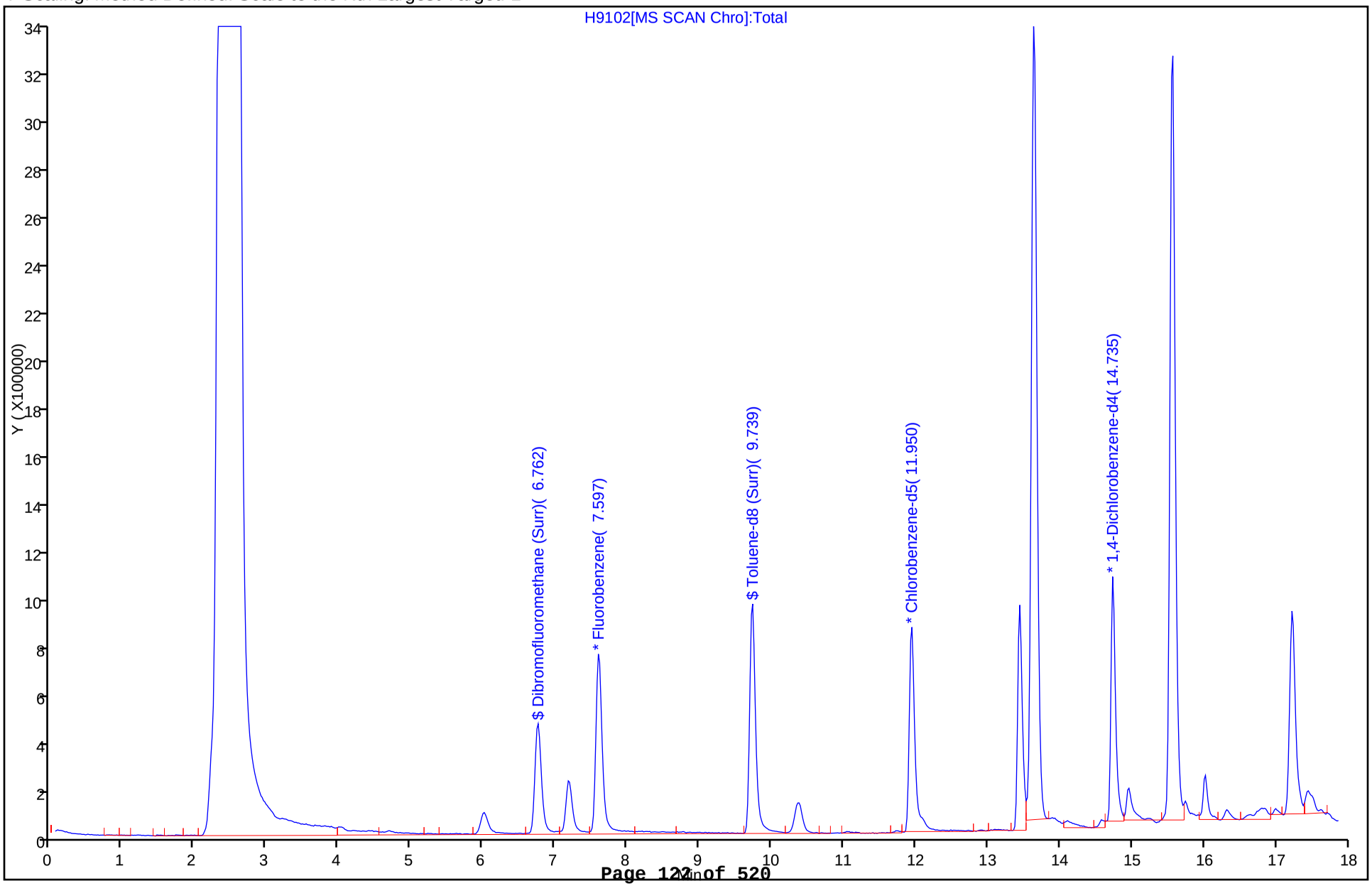
Report Date: 12-Dec-2012 05:43:43 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9102.D

Injection Date:	11-Dec-2012 09:58:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-21	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	13
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-20 | Lab Sample ID: 280-36712-4

Matrix: Water | Lab File ID: H9097.D

Analysis Method: 8260B | Date Collected: 12/04/2012 15:30

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 08:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	J	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-20 | Lab Sample ID: 280-36712-4

Matrix: Water | Lab File ID: H9097.D

Analysis Method: 8260B | Date Collected: 12/04/2012 15:30

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 08:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.32	U	1.0	0.32
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-20 Lab Sample ID: 280-36712-4

Matrix: Water Lab File ID: H9097.D

Analysis Method: 8260B Date Collected: 12/04/2012 15:30

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 08:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		78-120
1868-53-7	Dibromofluoromethane (Surr)	100		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-127
2037-26-5	Toluene-d8 (Surr)	99		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9097.D
Lims ID: 280-36712-C-4 Client ID: MW-20
Inject. Date: 11-Dec-2012 08:07:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-C-4
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 7
Lims Batch ID: 151489 Lims Sample ID: 8
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 08:32:35

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.595	7.598	-0.003	98	2067300	12.5	
* 2 Chlorobenzene-d5	119	11.948	11.933	0.015	87	445371	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.733	14.736	-0.003	96	712846	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.760	6.745	0.015	76	854914	9.00	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.178	7.181	-0.003	94	366225	8.83	
$ 7 Toluene-d8 (Surr)	98	9.737	9.722	0.015	93	1924713	8.88	
$ 8 4-Bromofluorobenzene (Surr)	95	13.445	13.431	0.014	86	968840	8.44	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43	4.218	4.215	0.003	80	10031	1.88	
52 Methylene Chloride	84		4.685					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					19
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					19
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					19
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					19
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					19
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105		13.929					19
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					
123 1,2,4-Trimethylbenzene	105		14.347					19
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119		14.678					
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					19
134 Naphthalene	128		16.924					
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

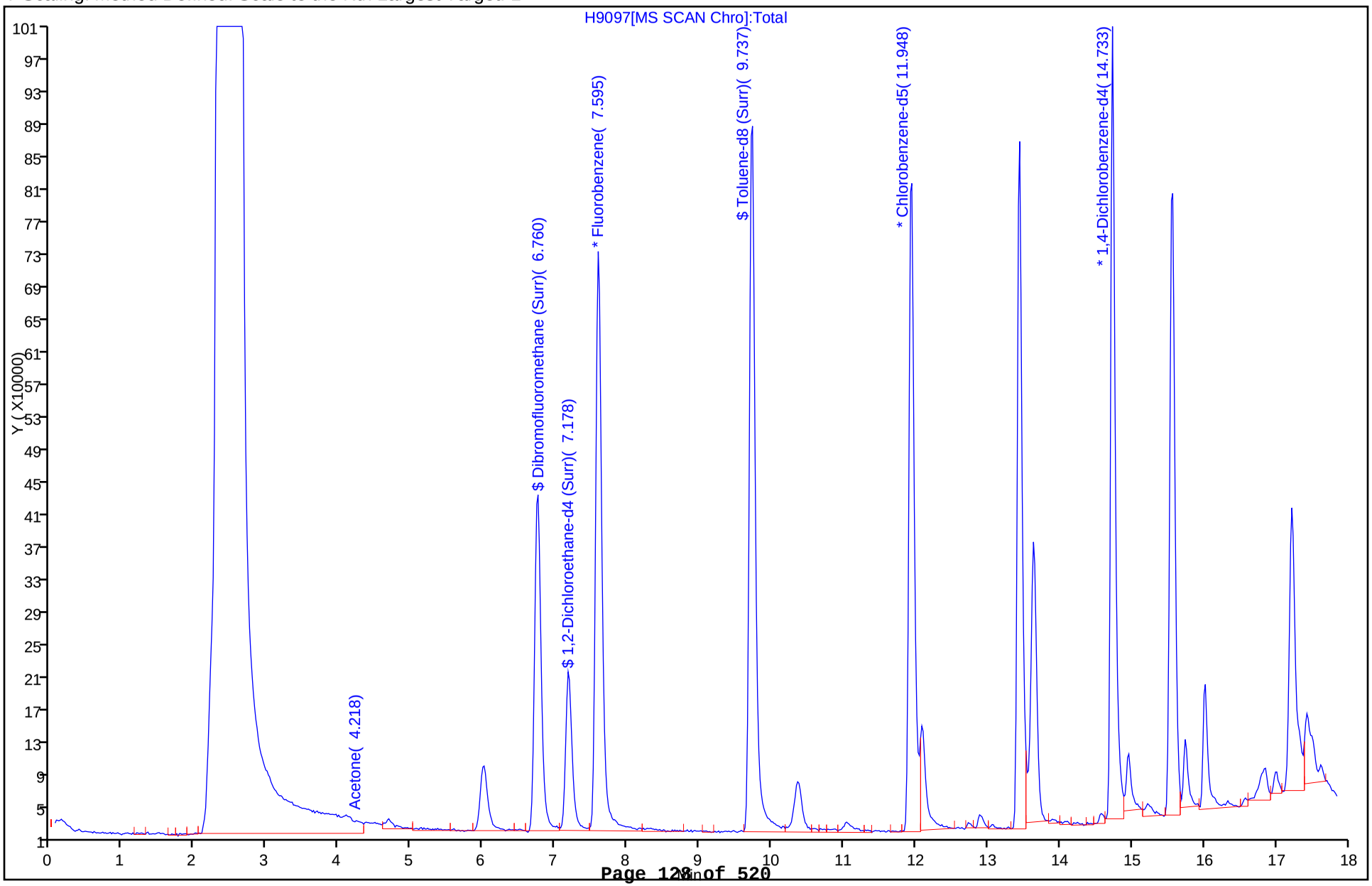
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9097.D

Injection Date:	11-Dec-2012 08:07:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-20	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	8
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



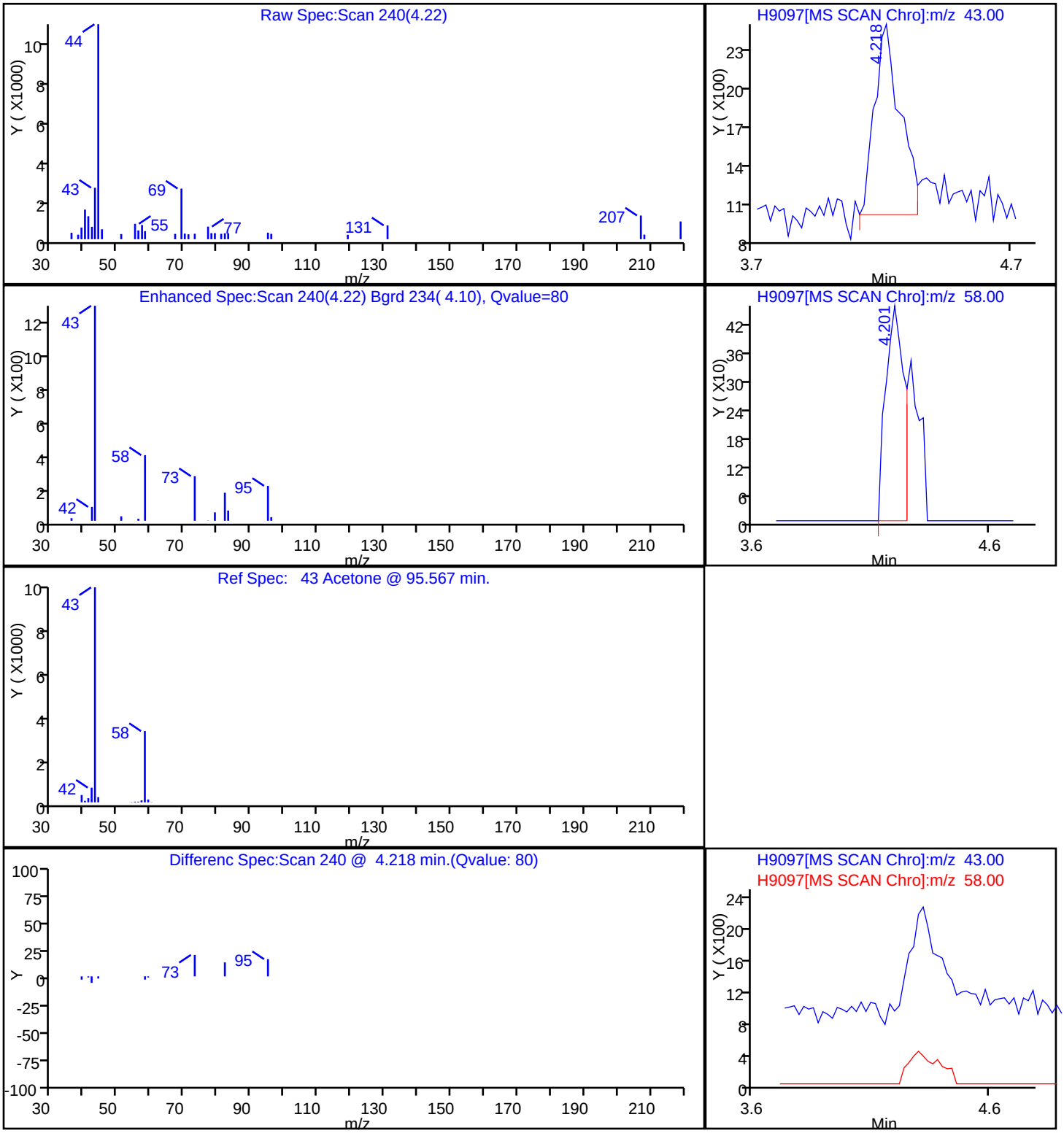
Report Date: 12-Dec-2012 05:43:37 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9097.D

Injection Date:	11-Dec-2012 08:07:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-20	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	8
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

43 Acetone



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-10 | Lab Sample ID: 280-36712-5

Matrix: Water | Lab File ID: H9103.D

Analysis Method: 8260B | Date Collected: 12/04/2012 16:15

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 10:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-10 | Lab Sample ID: 280-36712-5

Matrix: Water | Lab File ID: H9103.D

Analysis Method: 8260B | Date Collected: 12/04/2012 16:15

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 10:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.32	U	1.0	0.32
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-10 Lab Sample ID: 280-36712-5

Matrix: Water Lab File ID: H9103.D

Analysis Method: 8260B Date Collected: 12/04/2012 16:15

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 10:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		78-120
1868-53-7	Dibromofluoromethane (Surr)	100		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-127
2037-26-5	Toluene-d8 (Surr)	99		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9103.D
Lims ID: 280-36712-A-5 Client ID: MW-10
Inject. Date: 11-Dec-2012 10:21:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-A-5
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 13
Lims Batch ID: 151489 Lims Sample ID: 14
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 11:02:53

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.610	7.598	0.012	98	2251120	12.5	
* 2 Chlorobenzene-d5	119	11.945	11.933	0.012	87	477690	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.730	14.736	-0.006	96	777122	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.757	6.745	0.012	81	934175	9.03	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.192	7.181	0.011	94	398399	8.82	
$ 7 Toluene-d8 (Surr)	98	9.734	9.722	0.012	93	2079987	8.94	
$ 8 4-Bromofluorobenzene (Surr)	95	13.442	13.431	0.011	86	1074019	8.58	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43		4.215					
52 Methylene Chloride	84		4.685					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					19
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					19
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					19
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					19
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105		13.929					19
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					
123 1,2,4-Trimethylbenzene	105		14.347					19
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119		14.678					
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

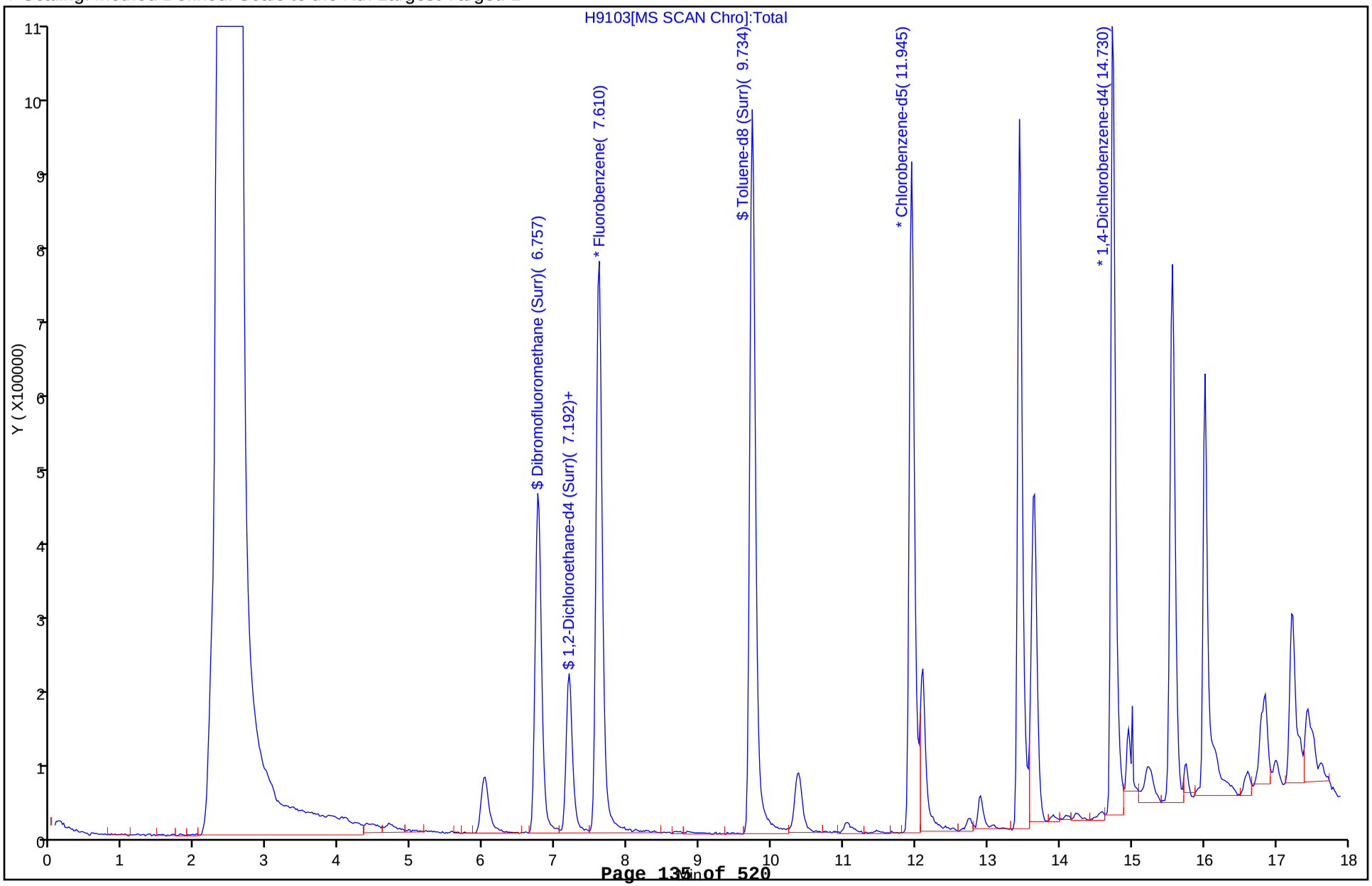
Report Date: 12-Dec-2012 05:43:44 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9103.D

Injection Date:	11-Dec-2012 10:21:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-10	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	14
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-19 | Lab Sample ID: 280-36712-6

Matrix: Water | Lab File ID: H9104.D

Analysis Method: 8260B | Date Collected: 12/05/2012 08:50

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 10:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-19 | Lab Sample ID: 280-36712-6

Matrix: Water | Lab File ID: H9104.D

Analysis Method: 8260B | Date Collected: 12/05/2012 08:50

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 10:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.32	U	1.0	0.32
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-19 Lab Sample ID: 280-36712-6

Matrix: Water Lab File ID: H9104.D

Analysis Method: 8260B Date Collected: 12/05/2012 08:50

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 10:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		78-120
1868-53-7	Dibromofluoromethane (Surr)	101		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-127
2037-26-5	Toluene-d8 (Surr)	99		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9104.D
Lims ID: 280-36712-B-6 Client ID: MW-19
Inject. Date: 11-Dec-2012 10:43:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-B-6
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 14
Lims Batch ID: 151489 Lims Sample ID: 15
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 11:07:10

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.610	7.598	0.012	98	2212216	12.5	
* 2 Chlorobenzene-d5	119	11.945	11.933	0.012	88	478219	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.748	14.736	0.012	97	758186	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.757	6.745	0.012	67	920221	9.05	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.192	7.181	0.011	97	396488	8.93	
$ 7 Toluene-d8 (Surr)	98	9.734	9.722	0.012	93	2077553	8.92	
$ 8 4-Bromofluorobenzene (Surr)	95	13.442	13.431	0.011	86	1051884	8.62	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					19
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43		4.215					
52 Methylene Chloride	84		4.685					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					19
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					19
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					19
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					19
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					19
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					19
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105		13.929					19
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					
123 1,2,4-Trimethylbenzene	105		14.347					19
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119		14.678					
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					19
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

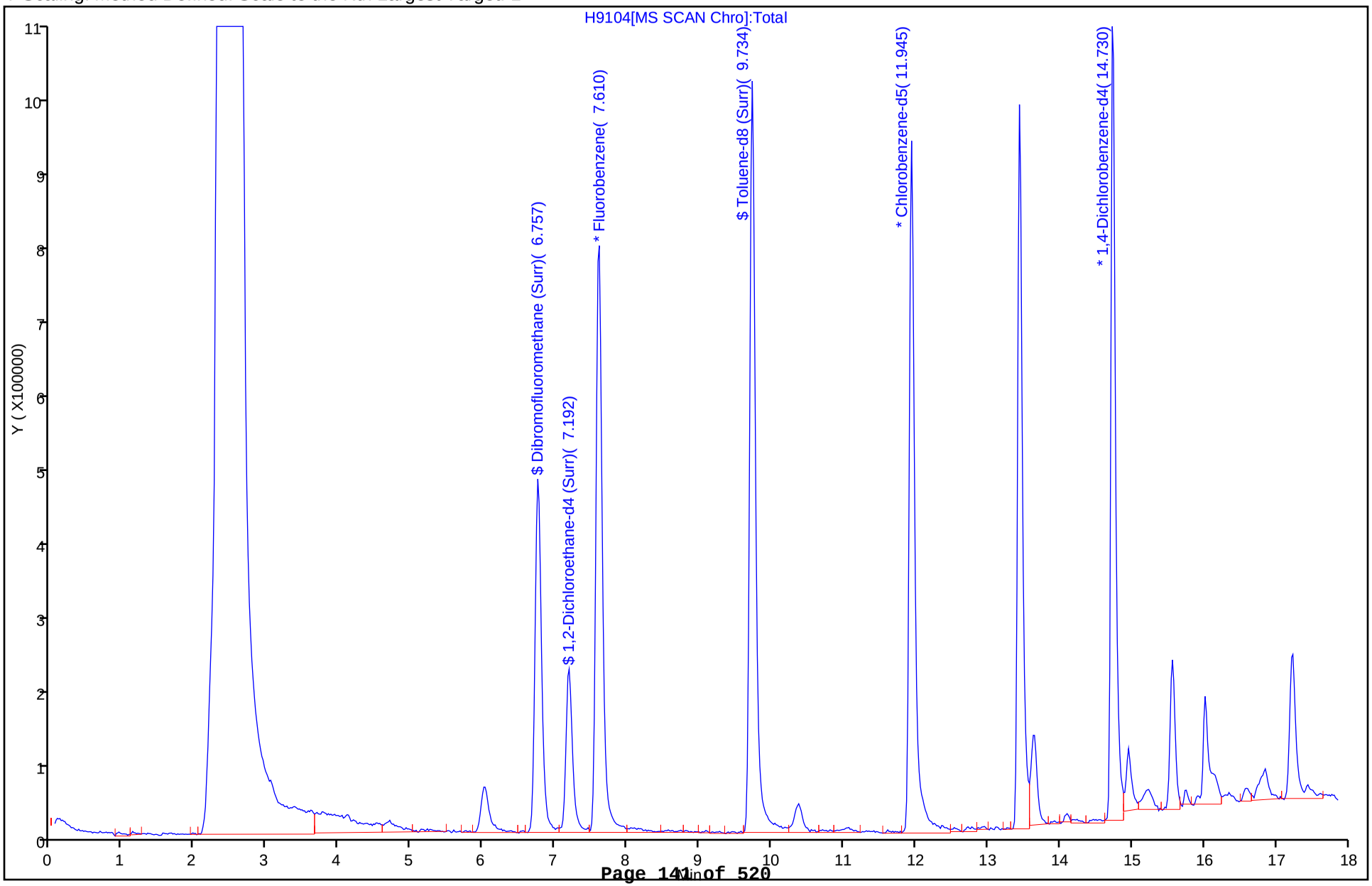
Report Date: 12-Dec-2012 05:43:45 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9104.D

Injection Date:	11-Dec-2012 10:43:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-19	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	15
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-9 | Lab Sample ID: 280-36712-7

Matrix: Water | Lab File ID: H9105.D

Analysis Method: 8260B | Date Collected: 12/05/2012 09:35

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 11:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-9 | Lab Sample ID: 280-36712-7

Matrix: Water | Lab File ID: H9105.D

Analysis Method: 8260B | Date Collected: 12/05/2012 09:35

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 11:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.32	U	1.0	0.32
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-9 Lab Sample ID: 280-36712-7

Matrix: Water Lab File ID: H9105.D

Analysis Method: 8260B Date Collected: 12/05/2012 09:35

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 11:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		78-120
1868-53-7	Dibromofluoromethane (Surr)	103		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
2037-26-5	Toluene-d8 (Surr)	97		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9105.D
Lims ID: 280-36712-B-7 Client ID: MW-9
Inject. Date: 11-Dec-2012 11:05:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-B-7
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 15
Lims Batch ID: 151489 Lims Sample ID: 16
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 11:29:54

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.610	7.598	0.012	98	2198173	12.5	
* 2 Chlorobenzene-d5	119	11.945	11.933	0.012	89	488739	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.748	14.736	0.012	96	779706	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.757	6.745	0.012	67	933390	9.24	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.192	7.181	0.011	95	401603	9.10	
$ 7 Toluene-d8 (Surr)	98	9.734	9.722	0.012	93	2070374	8.70	
$ 8 4-Bromofluorobenzene (Surr)	95	13.442	13.431	0.011	86	1058933	8.43	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					19
43 Acetone	43		4.215					
52 Methylene Chloride	84		4.685					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					19
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					19
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					19
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					19
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					19
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					19
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105		13.929					
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					
123 1,2,4-Trimethylbenzene	105		14.347					
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119		14.678					19
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					
135 1,2,3-Trichlorobenzene	180		17.167					19
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

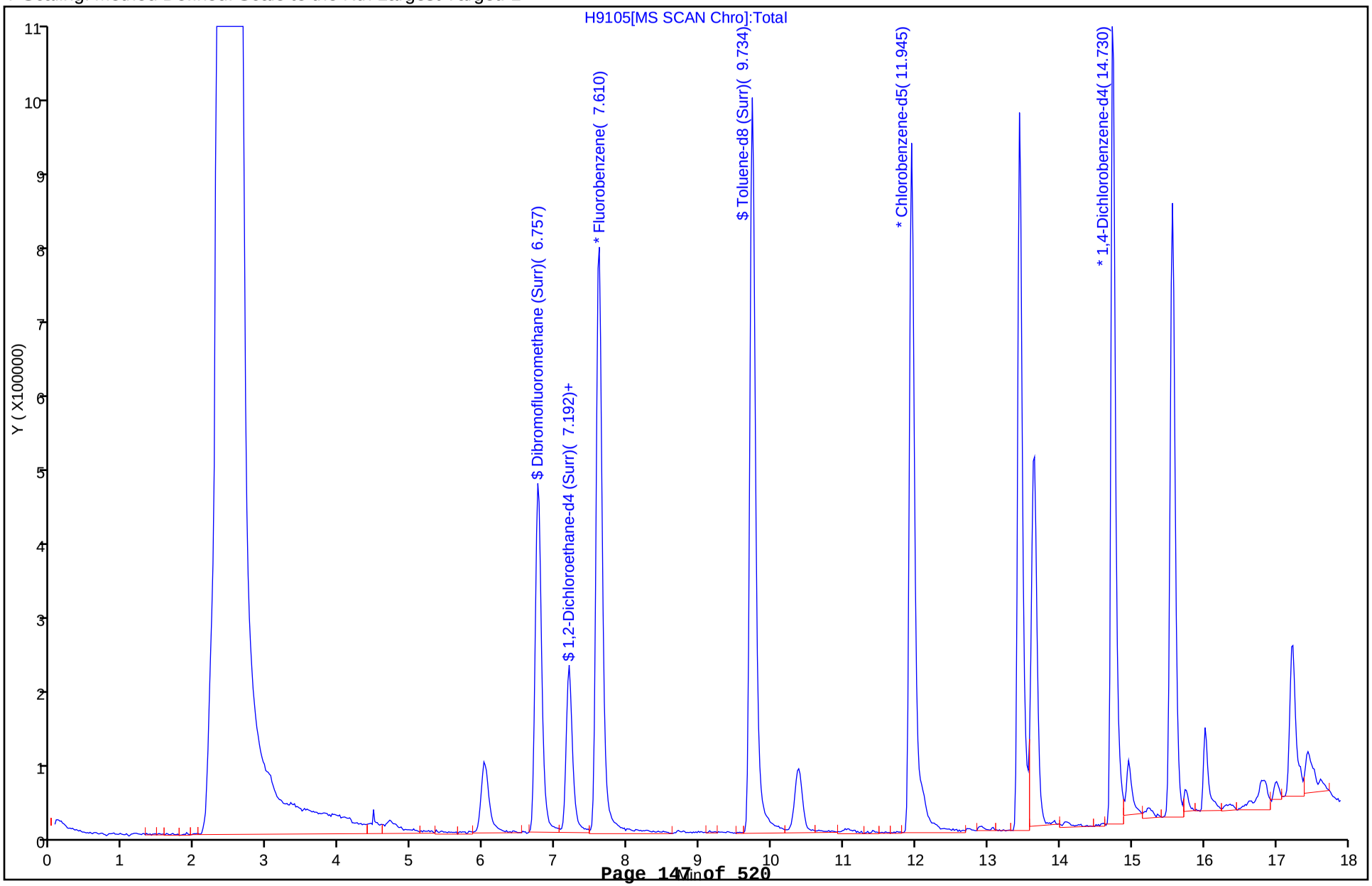
Report Date: 12-Dec-2012 05:43:46 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9105.D

Injection Date:	11-Dec-2012 11:05:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-9	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	16
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-16 | Lab Sample ID: 280-36712-8

Matrix: Water | Lab File ID: H9106.D

Analysis Method: 8260B | Date Collected: 12/05/2012 10:15

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 11:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-16 | Lab Sample ID: 280-36712-8

Matrix: Water | Lab File ID: H9106.D

Analysis Method: 8260B | Date Collected: 12/05/2012 10:15

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 11:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.32	U	1.0	0.32
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-16 Lab Sample ID: 280-36712-8

Matrix: Water Lab File ID: H9106.D

Analysis Method: 8260B Date Collected: 12/05/2012 10:15

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 11:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		78-120
1868-53-7	Dibromofluoromethane (Surr)	106		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
2037-26-5	Toluene-d8 (Surr)	104		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9106.D
Lims ID: 280-36712-A-8 Client ID: MW-16
Inject. Date: 11-Dec-2012 11:27:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-A-8
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 16
Lims Batch ID: 151489 Lims Sample ID: 17
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 12:08:24

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.609	7.598	0.011	98	2122148	12.5	
* 2 Chlorobenzene-d5	119	11.944	11.933	0.011	88	447783	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.747	14.736	0.011	96	731558	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.756	6.745	0.011	59	927003	9.50	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.191	7.181	0.010	95	404842	9.50	
$ 7 Toluene-d8 (Surr)	98	9.733	9.722	0.011	93	2032650	9.32	
$ 8 4-Bromofluorobenzene (Surr)	95	13.441	13.431	0.010	86	1064348	9.04	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					19
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43		4.215					
52 Methylene Chloride	84		4.685					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					19
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					19
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					19
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					19
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105		13.929					
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					
123 1,2,4-Trimethylbenzene	105		14.347					19
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119		14.678					
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					19
135 1,2,3-Trichlorobenzene	180		17.167					19
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

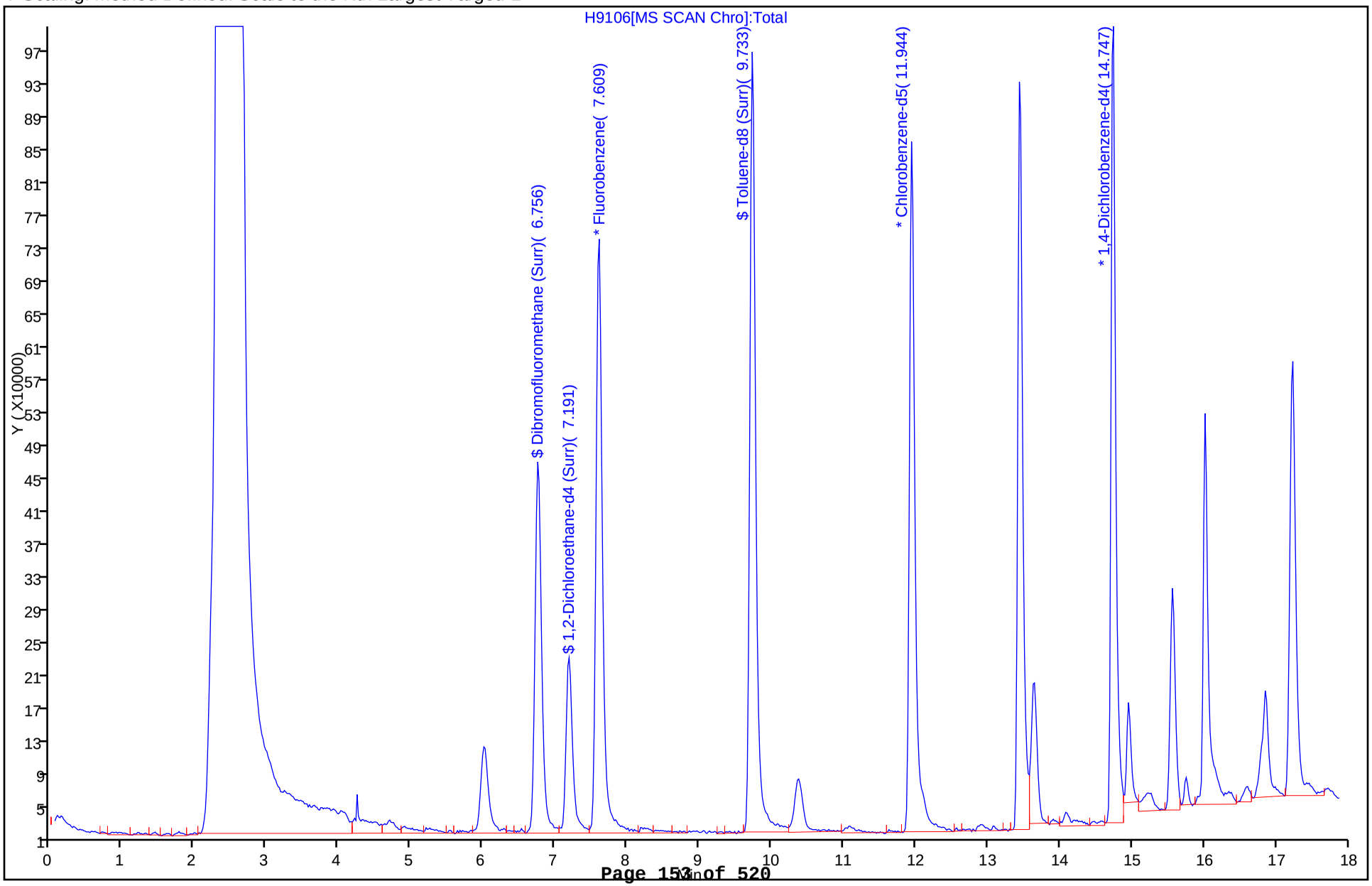
Report Date: 12-Dec-2012 05:43:47 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9106.D

Injection Date:	11-Dec-2012 11:27:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-16	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	17
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-17 | Lab Sample ID: 280-36712-9

Matrix: Water | Lab File ID: H9113.D

Analysis Method: 8260B | Date Collected: 12/05/2012 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/11/2012 14:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	7.6	U	40	7.6
71-43-2	Benzene	85		4.0	0.64
108-86-1	Bromobenzene	0.68	U	4.0	0.68
75-27-4	Bromodichloromethane	0.68	U	4.0	0.68
75-25-2	Bromoform	0.76	U	4.0	0.76
74-83-9	Bromomethane	0.84	U	8.0	0.84
78-93-3	2-Butanone (MEK)	8.0	U	24	8.0
56-23-5	Carbon tetrachloride	0.76	U	4.0	0.76
108-90-7	Chlorobenzene	0.68	U	4.0	0.68
74-97-5	Bromochloromethane	0.40	U	4.0	0.40
124-48-1	Dibromochloromethane	0.68	U	4.0	0.68
75-00-3	Chloroethane	1.6	U	8.0	1.6
67-66-3	Chloroform	0.64	U	4.0	0.64
74-87-3	Chloromethane	1.2	U	8.0	1.2
95-49-8	2-Chlorotoluene	0.68	U	4.0	0.68
106-43-4	4-Chlorotoluene	0.84	U	4.0	0.84
156-59-2	cis-1,2-Dichloroethene	0.60	U	4.0	0.60
10061-01-5	cis-1,3-Dichloropropene	0.64	U	4.0	0.64
96-12-8	1,2-Dibromo-3-Chloropropane	1.9	U	20	1.9
106-93-4	1,2-Dibromoethane (EDB)	0.72	U	4.0	0.72
74-95-3	Dibromomethane	0.68	U	4.0	0.68
95-50-1	1,2-Dichlorobenzene	0.60	U	4.0	0.60
541-73-1	1,3-Dichlorobenzene	0.52	U	4.0	0.52
106-46-7	1,4-Dichlorobenzene	0.64	U	4.0	0.64
75-71-8	Dichlorodifluoromethane	1.2	U	8.0	1.2
75-34-3	1,1-Dichloroethane	0.88	U	4.0	0.88
107-06-2	1,2-Dichloroethane	0.52	U	4.0	0.52
75-35-4	1,1-Dichloroethene	0.92	U	4.0	0.92
540-59-0	1,2-Dichloroethene, Total	0.96	U	4.0	0.96
78-87-5	1,2-Dichloropropane	0.72	U	4.0	0.72
142-28-9	1,3-Dichloropropane	0.88	U	4.0	0.88
594-20-7	2,2-Dichloropropane	0.72	U	4.0	0.72
563-58-6	1,1-Dichloropropene	0.76	U	4.0	0.76
100-41-4	Ethylbenzene	5.1		4.0	0.64
87-68-3	Hexachlorobutadiene	1.4	U	4.0	1.4
591-78-6	2-Hexanone	6.8	U	20	6.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-17 | Lab Sample ID: 280-36712-9

Matrix: Water | Lab File ID: H9113.D

Analysis Method: 8260B | Date Collected: 12/05/2012 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/11/2012 14:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.76	U	4.0	0.76
99-87-6	4-Isopropyltoluene	1.2	J	4.0	0.80
75-09-2	Methylene Chloride	9.2		8.0	1.3
108-10-1	4-Methyl-2-pentanone	3.9	U	20	3.9
1634-04-4	Methyl tert-butyl ether	1.0	U	20	1.0
179601-23-1	m-Xylene & p-Xylene	9.7		8.0	1.4
91-20-3	Naphthalene	0.88	U	4.0	0.88
104-51-8	n-Butylbenzene	1.5	J	4.0	1.3
103-65-1	n-Propylbenzene	0.64	U	4.0	0.64
95-47-6	o-Xylene	0.76	J	4.0	0.76
135-98-8	sec-Butylbenzene	0.68	U	4.0	0.68
100-42-5	Styrene	0.68	U	4.0	0.68
98-06-6	tert-Butylbenzene	0.64	U	4.0	0.64
630-20-6	1,1,1,2-Tetrachloroethane	0.84	U	4.0	0.84
79-34-5	1,1,2,2-Tetrachloroethane	0.84	U	4.0	0.84
127-18-4	Tetrachloroethene	0.80	U	4.0	0.80
108-88-3	Toluene	2.6	J	4.0	0.68
156-60-5	trans-1,2-Dichloroethene	0.60	U	4.0	0.60
10061-02-6	trans-1,3-Dichloropropene	0.76	U	12	0.76
87-61-6	1,2,3-Trichlorobenzene	0.84	U	4.0	0.84
120-82-1	1,2,4-Trichlorobenzene	0.84	U	4.0	0.84
71-55-6	1,1,1-Trichloroethane	0.64	U	4.0	0.64
79-00-5	1,1,2-Trichloroethane	1.1	U	4.0	1.1
79-01-6	Trichloroethene	0.64	U	4.0	0.64
75-69-4	Trichlorofluoromethane	1.2	U	8.0	1.2
96-18-4	1,2,3-Trichloropropane	1.3	U	10	1.3
95-63-6	1,2,4-Trimethylbenzene	1.1	J	4.0	0.60
108-67-8	1,3,5-Trimethylbenzene	4.1		4.0	0.64
75-01-4	Vinyl chloride	0.40	U	4.0	0.40
1330-20-7	Xylenes, Total	10		8.0	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-17 Lab Sample ID: 280-36712-9

Matrix: Water Lab File ID: H9113.D

Analysis Method: 8260B Date Collected: 12/05/2012 11:00

Sample wt/vol: 5(mL) Date Analyzed: 12/11/2012 14:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
1868-53-7	Dibromofluoromethane (Surr)	102		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-127
2037-26-5	Toluene-d8 (Surr)	104		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9113.D
Lims ID: 280-36712-D-9 Client ID: MW-17
Inject. Date: 11-Dec-2012 14:04:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-D-9 5ml
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 23
Lims Batch ID: 151489 Lims Sample ID: 24
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 12-Dec-2012 05:41:16

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.610	7.598	0.012	93	2277733	12.5	
* 2 Chlorobenzene-d5	119	11.945	11.933	0.012	89	497644	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.748	14.736	0.012	94	782767	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.757	6.745	0.012	77	963578	9.20	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.193	7.181	0.012	92	448129	9.80	
$ 7 Toluene-d8 (Surr)	98	9.734	9.722	0.012	95	2264457	9.35	
$ 8 4-Bromofluorobenzene (Surr)	95	13.443	13.431	0.012	85	1161833	9.22	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43		4.215					
52 Methylene Chloride	84	4.703	4.685	0.018	30	178927	2.31	
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					39
76 Carbon tetrachloride	117		7.000					
79 Benzene	78	7.262	7.244	0.018	97	4531119	21.3	
78 1,2-Dichloroethane	62		7.279					3
81 Trichloroethene	95		8.080					19

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					19
88 Dichlorobromomethane	83		8.741					
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					3
93 Toluene	91	9.839	9.820	0.019	96	161583	0.6525	
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					19
105 Ethylbenzene	106	12.119	12.119	0.0	97	117783	1.28	
107 m-Xylene & p-Xylene	106	12.294	12.275	0.019	0	293235	2.41	
109 o-Xylene	106	12.798	12.780	0.018	82	21014	0.1903	
108 Styrene	104		12.797					
110 Bromoform	173		13.059					19
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105	13.878	13.929	-0.051	86	237866	1.04	
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					
123 1,2,4-Trimethylbenzene	105	14.348	14.347	0.001	78	59159	0.2692	
124 sec-Butylbenzene	134	14.539	14.521	0.018	71	10342	0.1617	
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119	14.679	14.678	0.001	91	77692	0.2958	
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91	15.009	15.096	-0.087	51	107365	0.3872	
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		2.61	

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

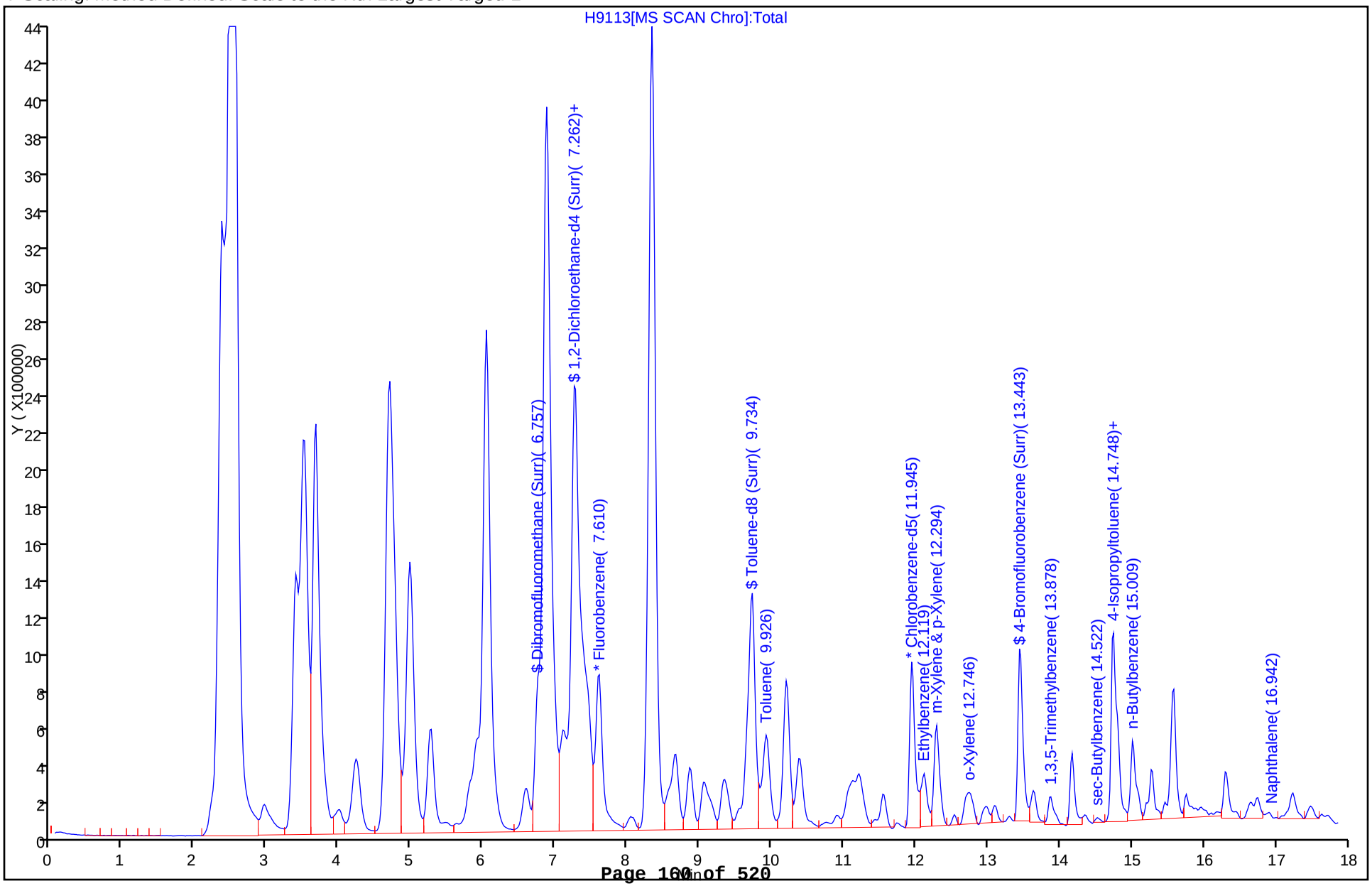
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TestAmerica Denver

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Injection Date:	11-Dec-2012 14:04:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



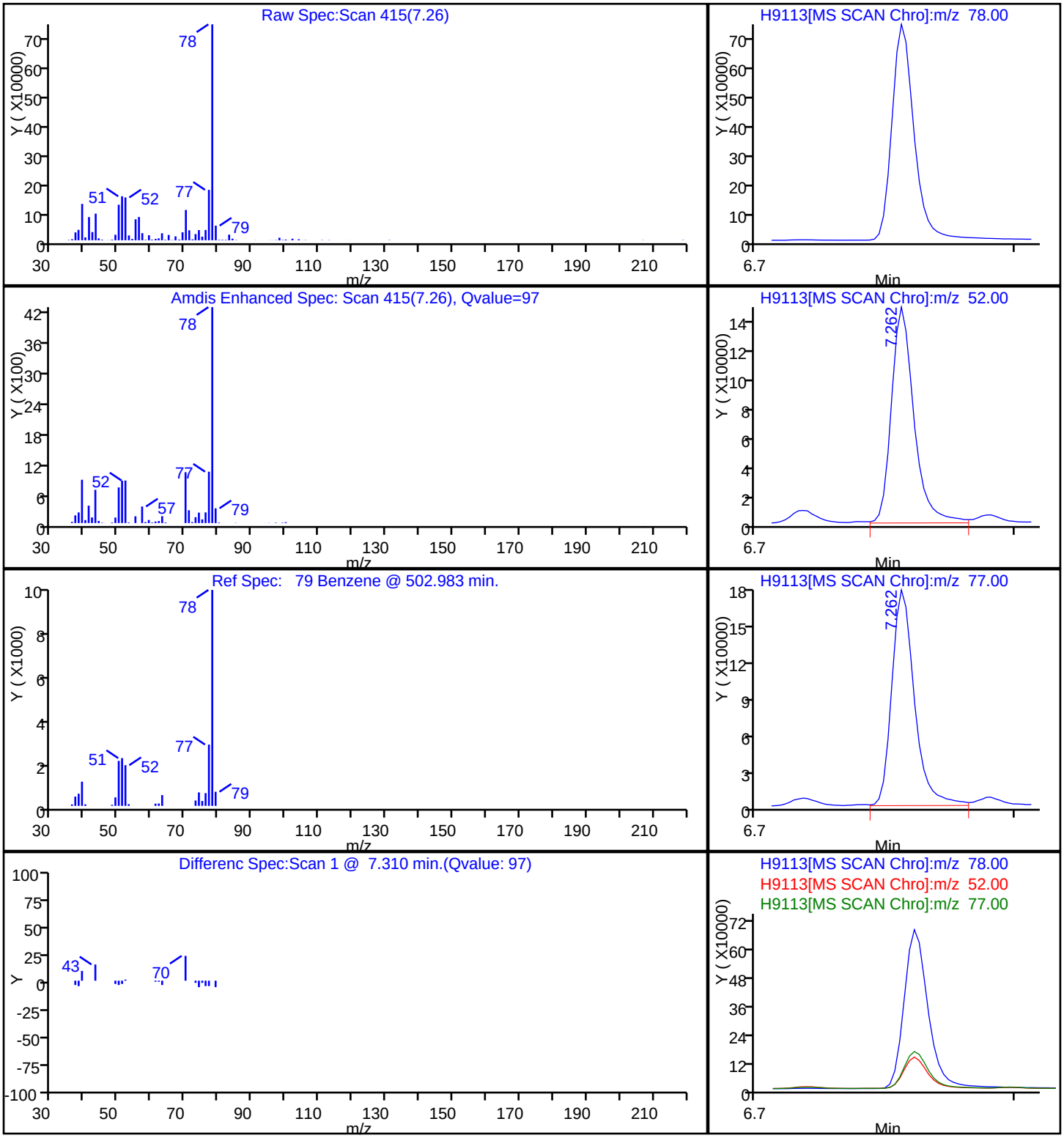
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TestAmerica Denver

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Injection Date:	11-Dec-2012 14:04:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

79 Benzene



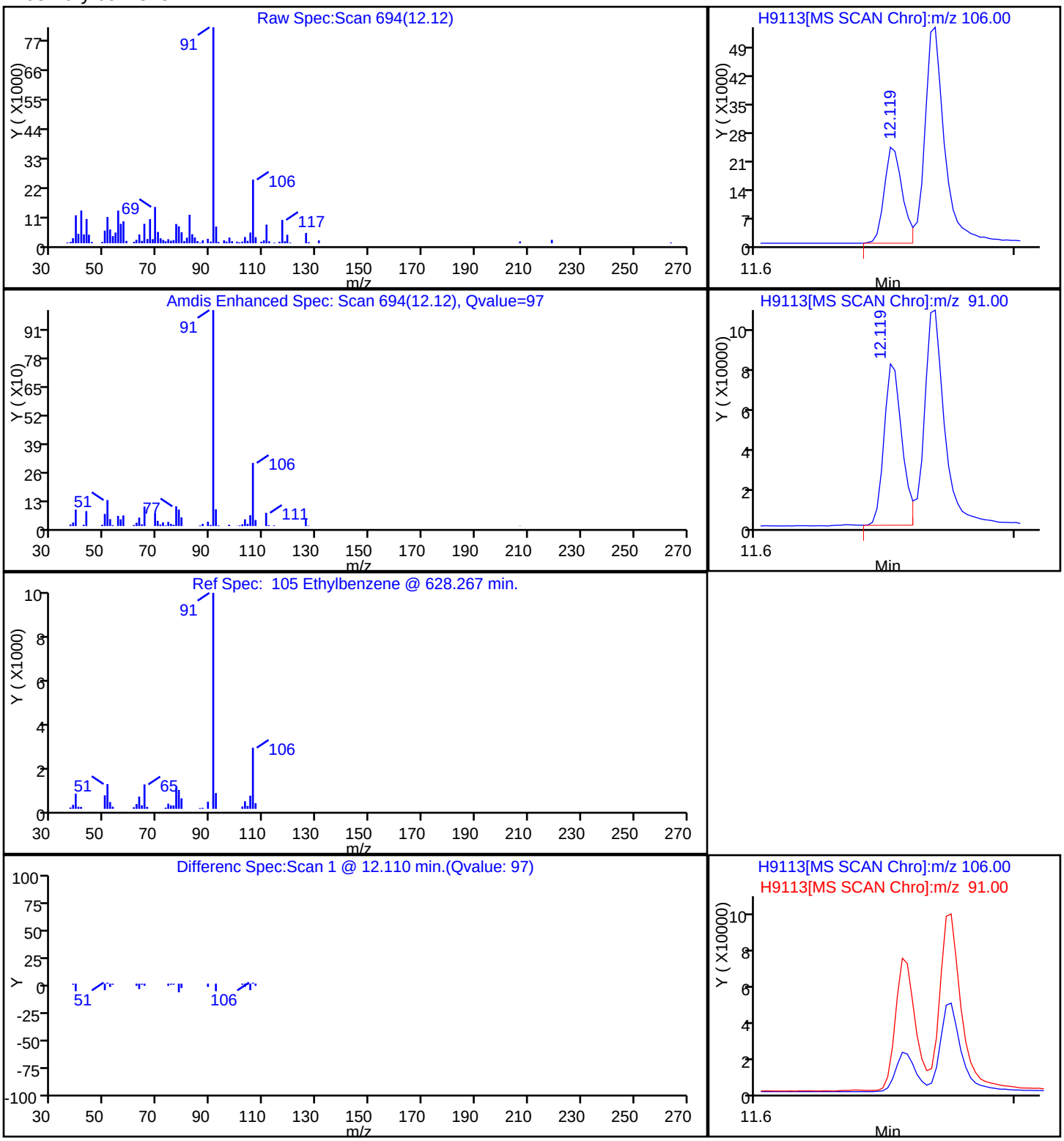
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TestAmerica Denver

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Injection Date:	11-Dec-2012 14:04:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

105 Ethylbenzene



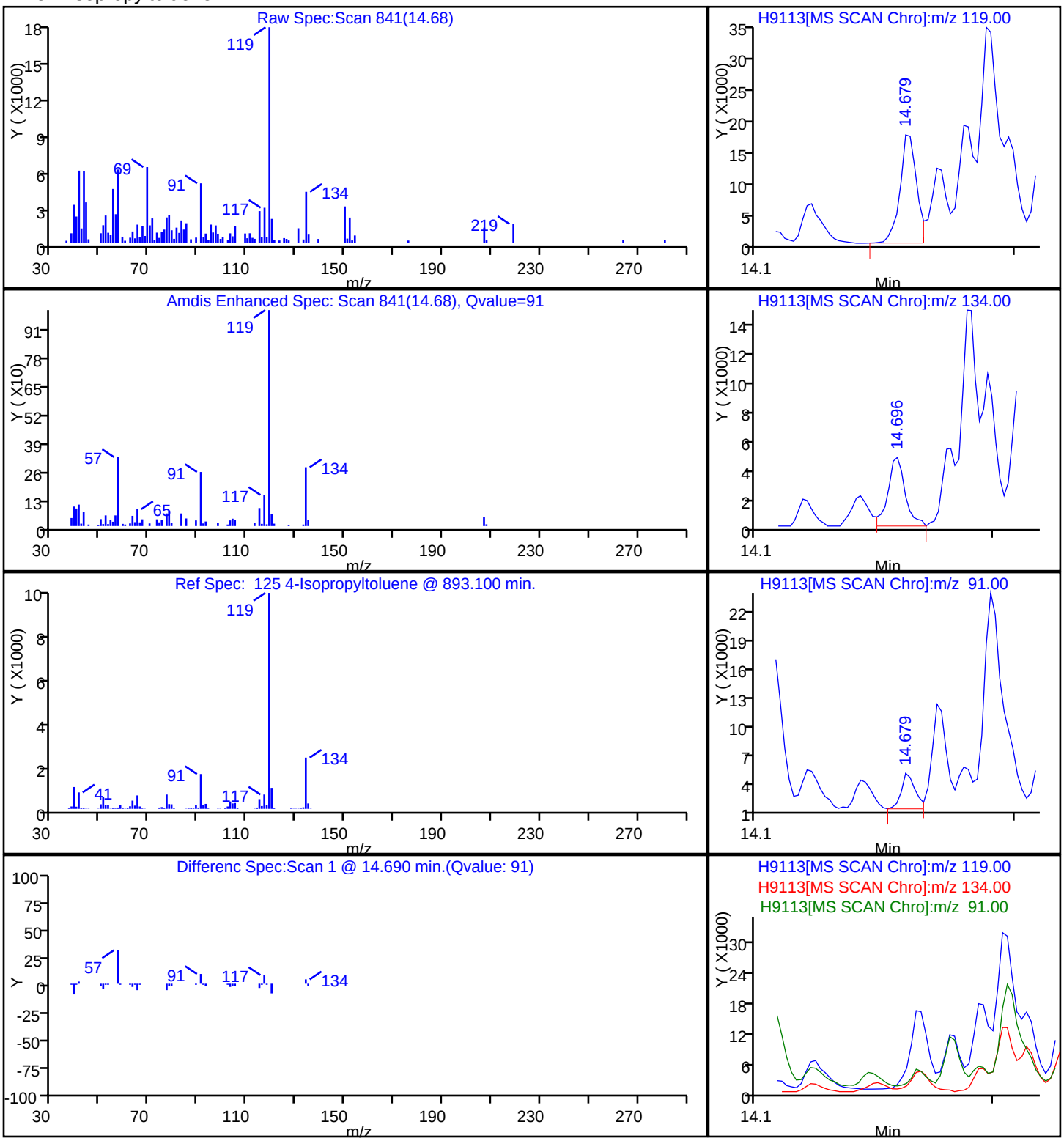
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TestAmerica Denver

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Injection Date:	11-Dec-2012 14:04:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

125 4-Isopropyltoluene



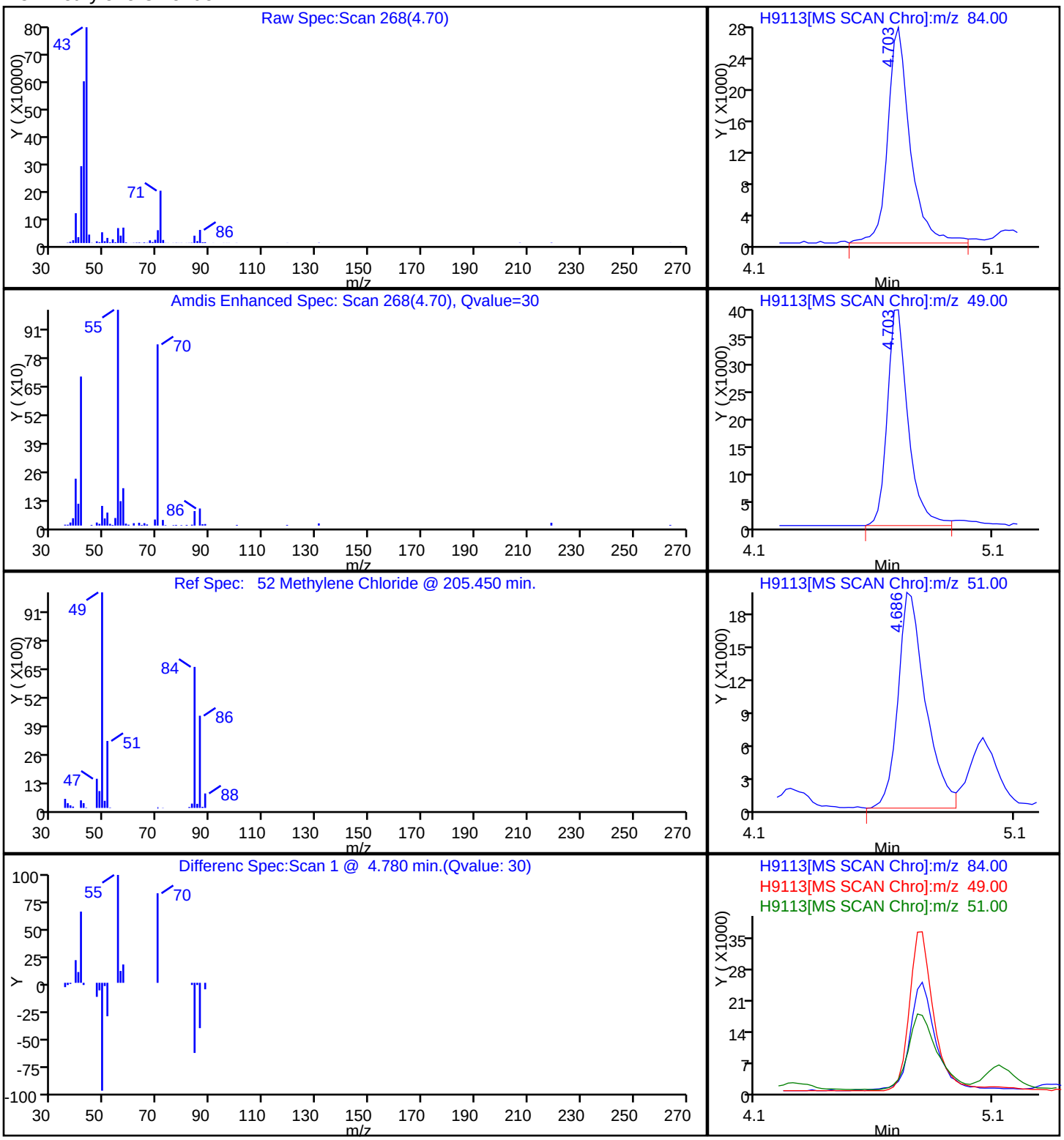
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TestAmerica Denver

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Injection Date:	11-Dec-2012 14:04:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

52 Methylene Chloride



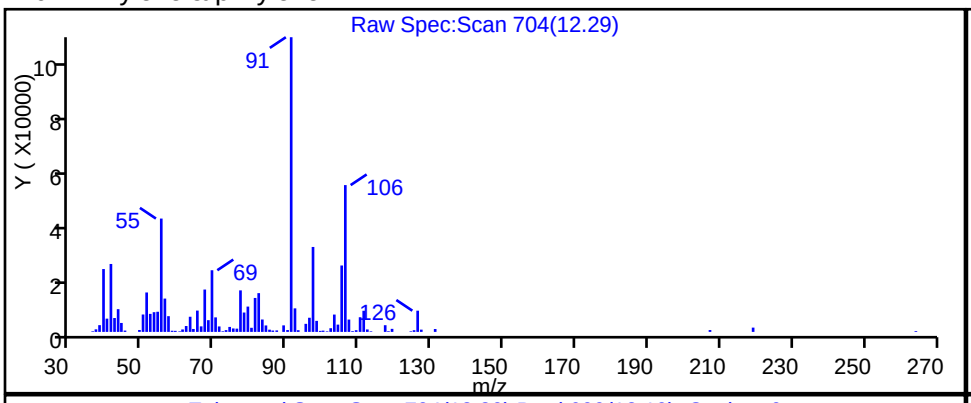
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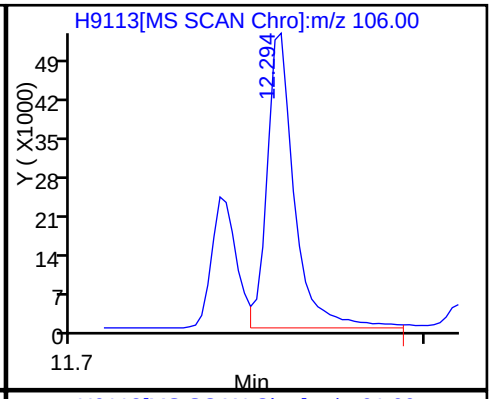
TestAmerica Denver

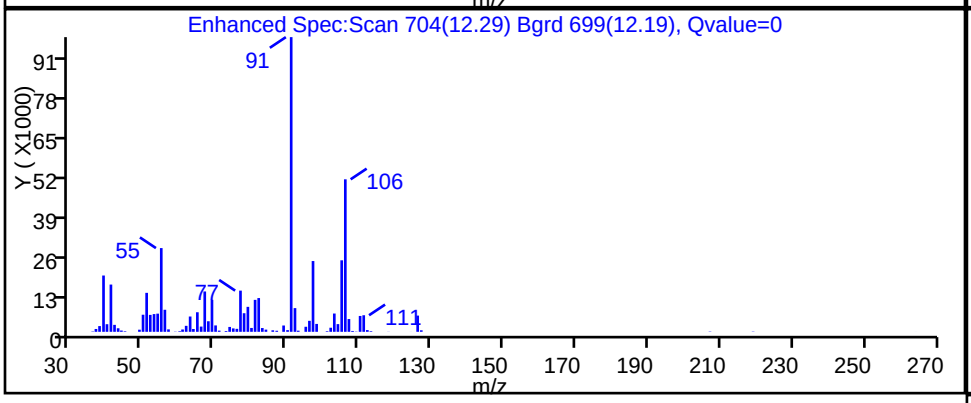
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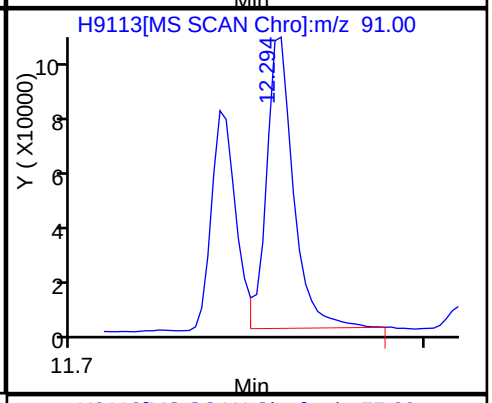
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Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

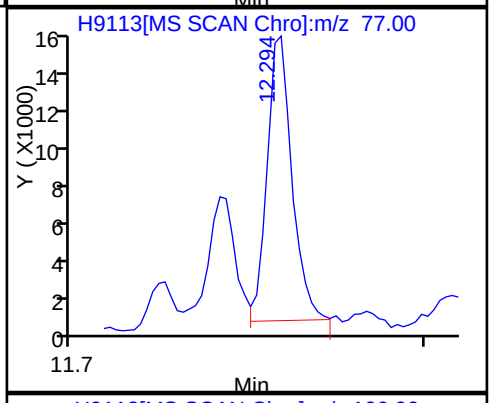
107 m-Xylene & p-Xylene

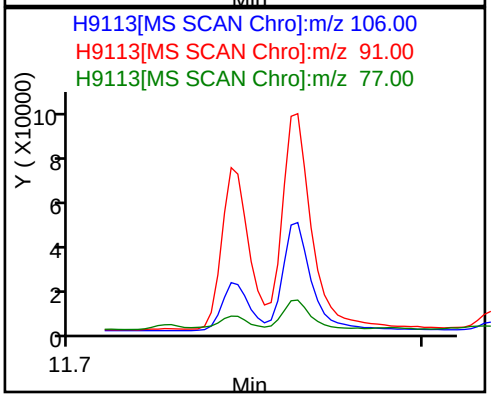












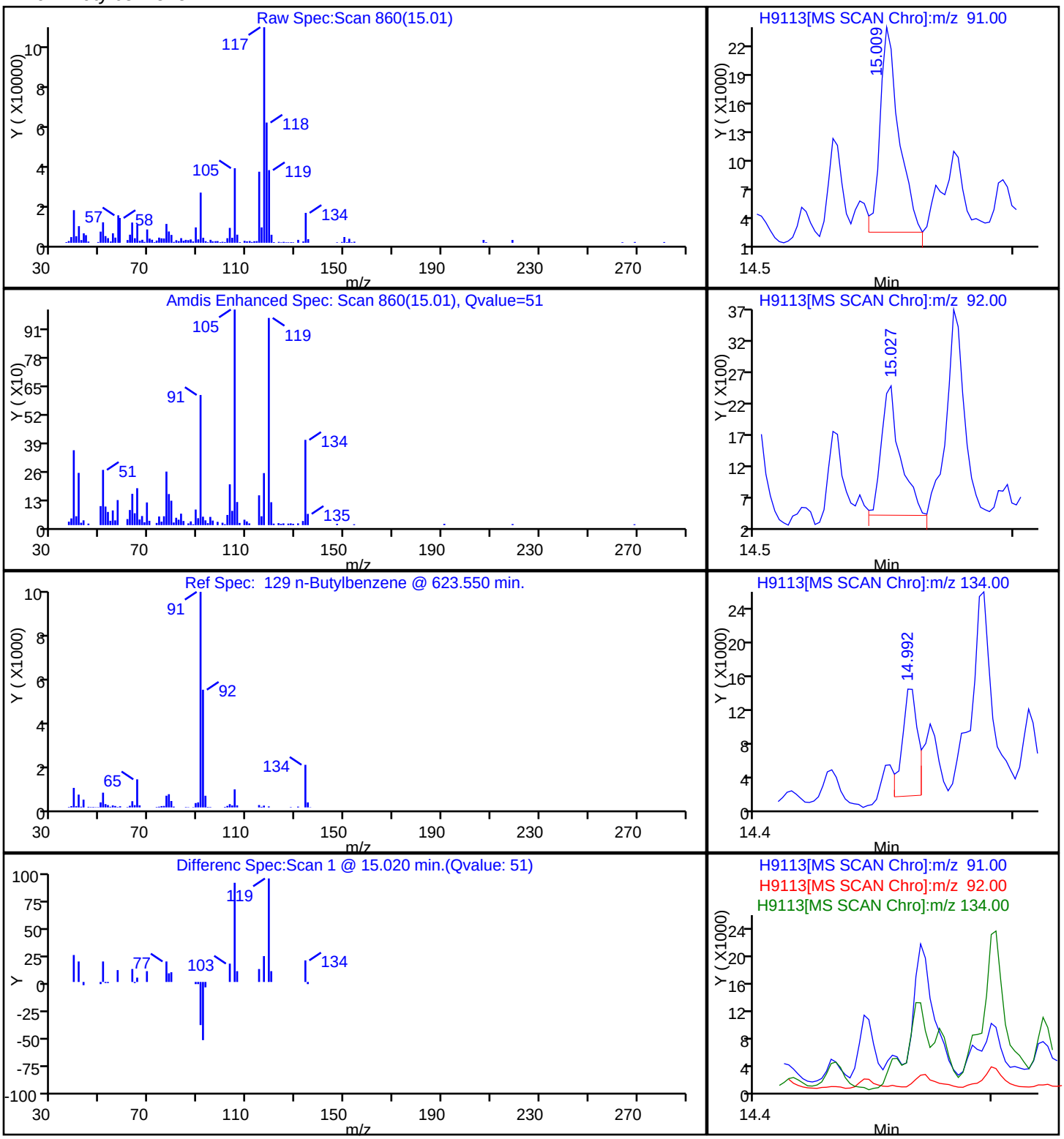
Report Date: 12-Dec-2012 05:43:54 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9113.D

Injection Date:	11-Dec-2012 14:04:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

129 n-Butylbenzene



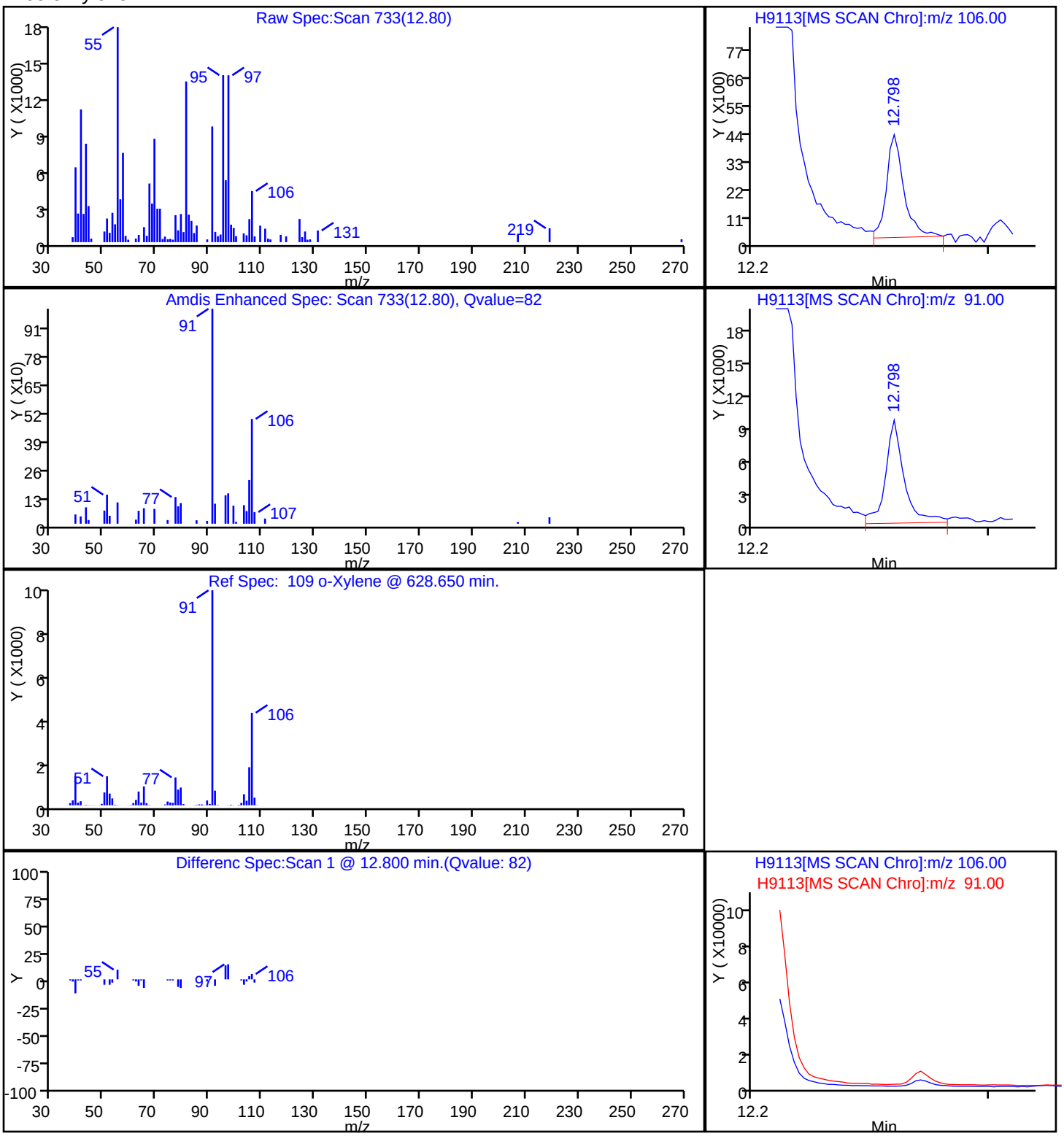
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9113.D

Injection Date:	11-Dec-2012 14:04:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

109 o-Xylene



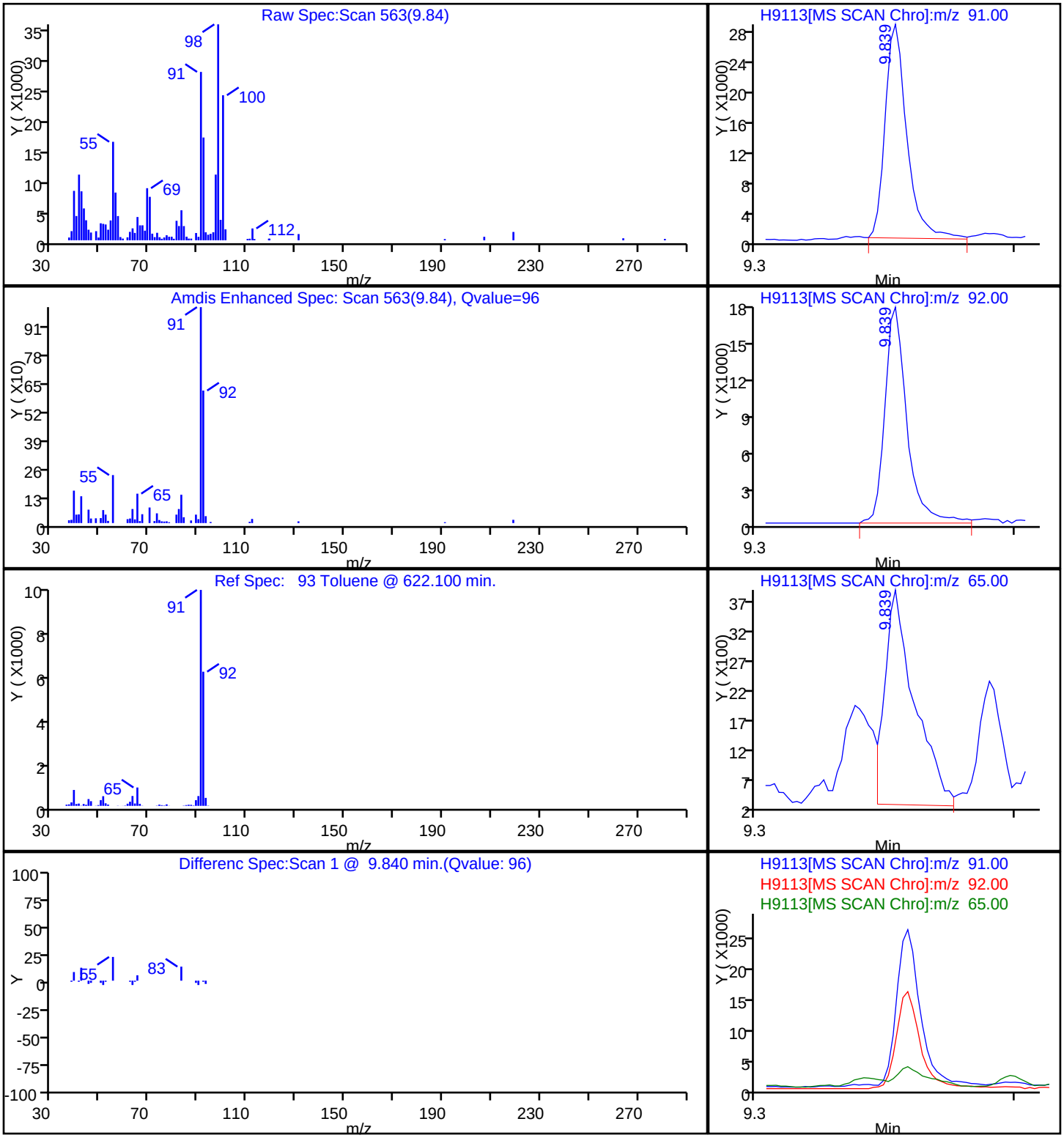
Report Date: 12-Dec-2012 05:43:54 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9113.D

Injection Date:	11-Dec-2012 14:04:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

93 Toluene



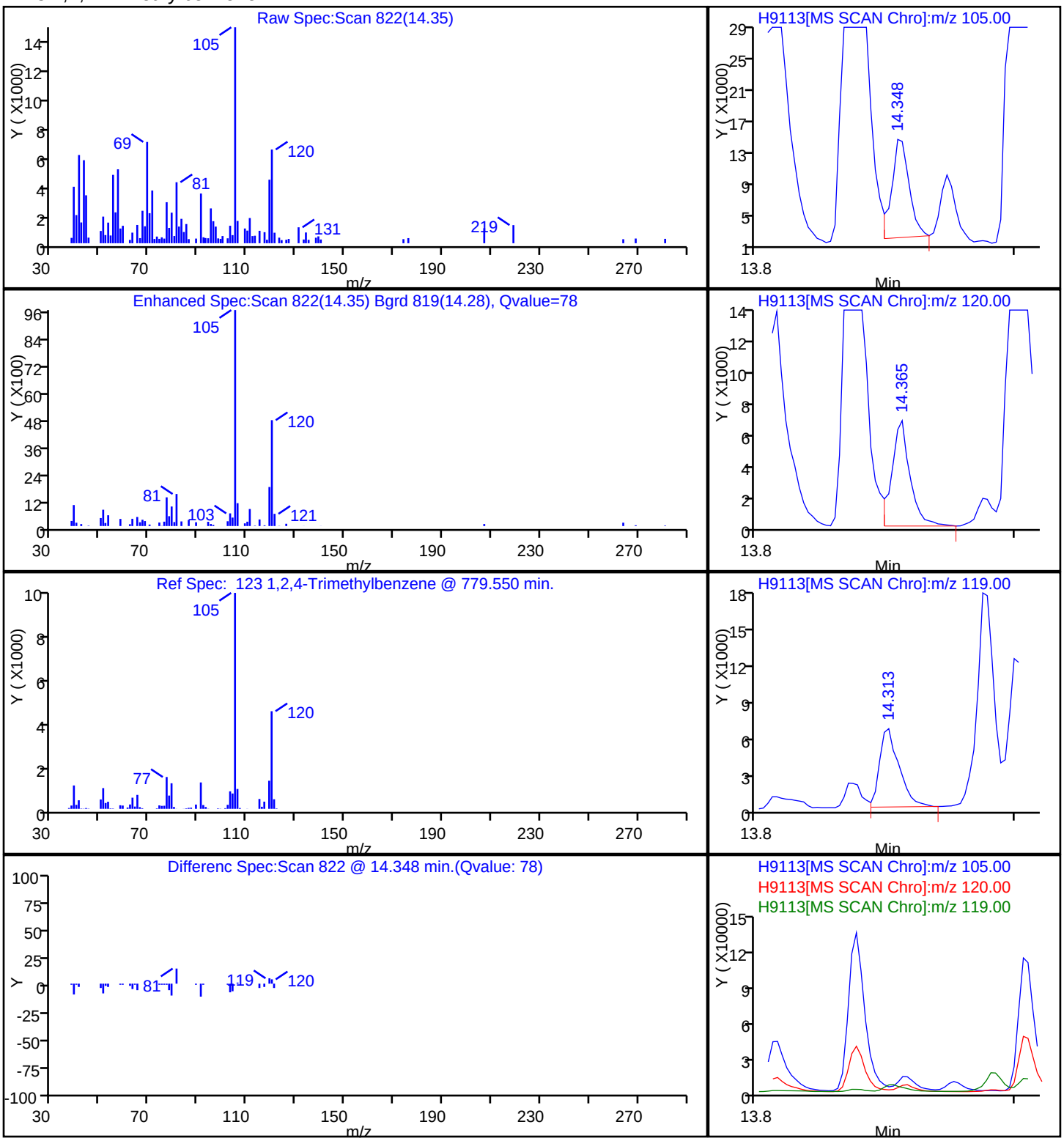
Report Date: 12-Dec-2012 05:43:54 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9113.D

Injection Date:	11-Dec-2012 14:04:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

123 1,2,4-Trimethylbenzene



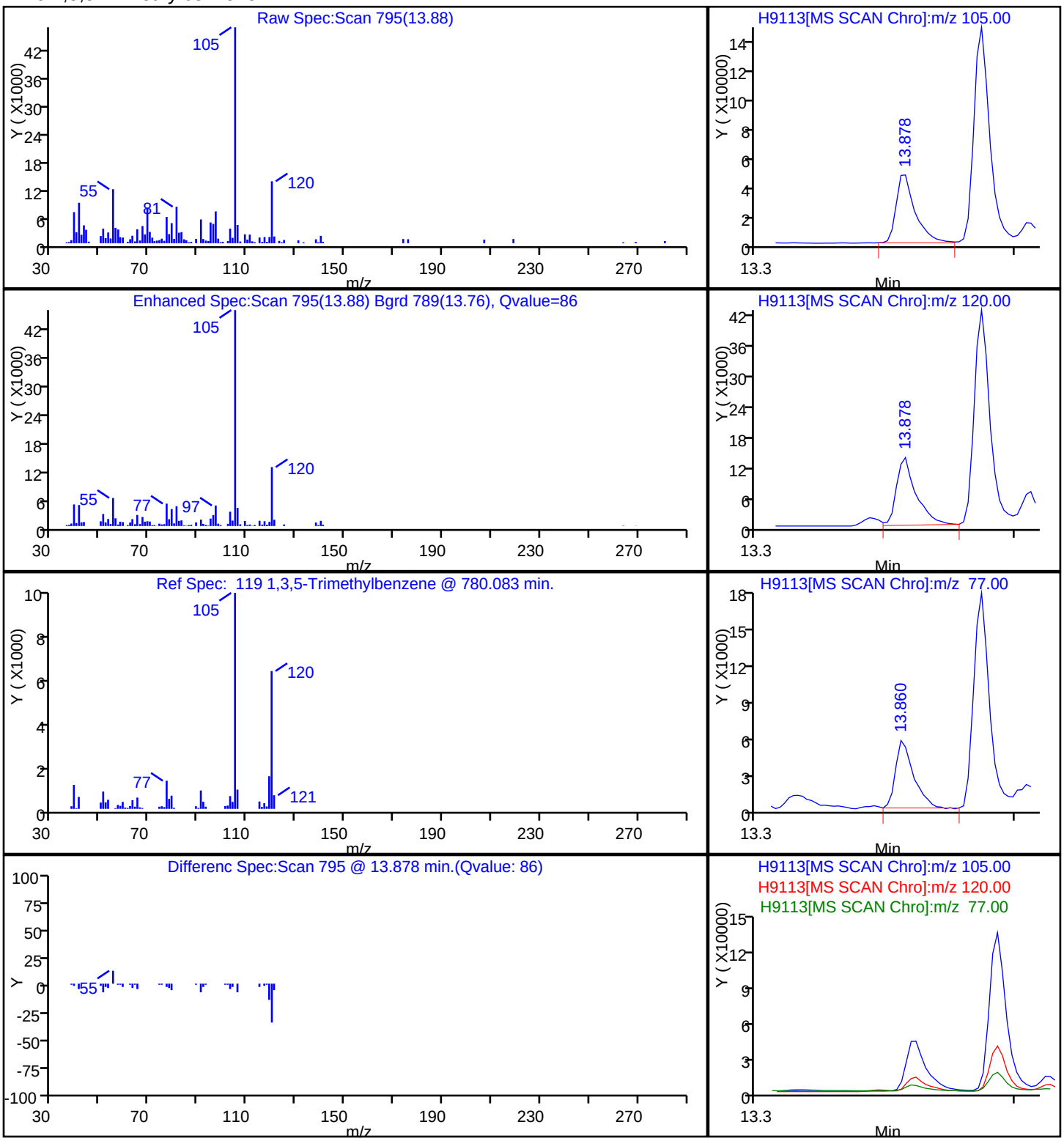
Report Date: 12-Dec-2012 05:43:54 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9113.D

Injection Date:	11-Dec-2012 14:04:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	MW-17	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	24
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

119 1,3,5-Trimethylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-W | Lab Sample ID: 280-36712-10

Matrix: Water | Lab File ID: H9110.D

Analysis Method: 8260B | Date Collected: 12/05/2012 11:40

Sample wt/vol: 0.1(mL) | Date Analyzed: 12/11/2012 12:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	19000		2000	380
71-43-2	Benzene	32	U	200	32
108-86-1	Bromobenzene	34	U	200	34
75-27-4	Bromodichloromethane	34	U	200	34
75-25-2	Bromoform	38	U	200	38
74-83-9	Bromomethane	42	U	400	42
78-93-3	2-Butanone (MEK)	10000		1200	400
56-23-5	Carbon tetrachloride	38	U	200	38
108-90-7	Chlorobenzene	34	U	200	34
74-97-5	Bromochloromethane	20	U	200	20
124-48-1	Dibromochloromethane	34	U	200	34
75-00-3	Chloroethane	82	U	400	82
67-66-3	Chloroform	32	U	200	32
74-87-3	Chloromethane	60	U	400	60
95-49-8	2-Chlorotoluene	34	U	200	34
106-43-4	4-Chlorotoluene	42	U	200	42
156-59-2	cis-1,2-Dichloroethene	30	U	200	30
10061-01-5	cis-1,3-Dichloropropene	32	U	200	32
96-12-8	1,2-Dibromo-3-Chloropropane	94	U	1000	94
106-93-4	1,2-Dibromoethane (EDB)	36	U	200	36
74-95-3	Dibromomethane	34	U	200	34
95-50-1	1,2-Dichlorobenzene	30	U	200	30
541-73-1	1,3-Dichlorobenzene	26	U	200	26
106-46-7	1,4-Dichlorobenzene	32	U	200	32
75-71-8	Dichlorodifluoromethane	62	U	400	62
75-34-3	1,1-Dichloroethane	44	U	200	44
107-06-2	1,2-Dichloroethane	26	U	200	26
75-35-4	1,1-Dichloroethene	46	U	200	46
540-59-0	1,2-Dichloroethene, Total	48	U	200	48
78-87-5	1,2-Dichloropropane	36	U	200	36
142-28-9	1,3-Dichloropropane	44	U	200	44
594-20-7	2,2-Dichloropropane	36	U	200	36
563-58-6	1,1-Dichloropropene	38	U	200	38
100-41-4	Ethylbenzene	32	U	200	32
87-68-3	Hexachlorobutadiene	72	U	200	72
591-78-6	2-Hexanone	340	U	1000	340

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-W | Lab Sample ID: 280-36712-10

Matrix: Water | Lab File ID: H9110.D

Analysis Method: 8260B | Date Collected: 12/05/2012 11:40

Sample wt/vol: 0.1(mL) | Date Analyzed: 12/11/2012 12:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	38	U	200	38
99-87-6	4-Isopropyltoluene	40	U	200	40
75-09-2	Methylene Chloride	270	J	400	64
108-10-1	4-Methyl-2-pentanone	200	U	1000	200
1634-04-4	Methyl tert-butyl ether	50	U	1000	50
179601-23-1	m-Xylene & p-Xylene	68	U	400	68
91-20-3	Naphthalene	44	U	200	44
104-51-8	n-Butylbenzene	64	U	200	64
103-65-1	n-Propylbenzene	32	U	200	32
95-47-6	o-Xylene	38	U	200	38
135-98-8	sec-Butylbenzene	34	U	200	34
100-42-5	Styrene	34	U	200	34
98-06-6	tert-Butylbenzene	32	U	200	32
630-20-6	1,1,1,2-Tetrachloroethane	42	U	200	42
79-34-5	1,1,2,2-Tetrachloroethane	42	U	200	42
127-18-4	Tetrachloroethene	40	U	200	40
108-88-3	Toluene	34	U	200	34
156-60-5	trans-1,2-Dichloroethene	30	U	200	30
10061-02-6	trans-1,3-Dichloropropene	38	U	600	38
87-61-6	1,2,3-Trichlorobenzene	42	U	200	42
120-82-1	1,2,4-Trichlorobenzene	42	U	200	42
71-55-6	1,1,1-Trichloroethane	32	U	200	32
79-00-5	1,1,2-Trichloroethane	54	U	200	54
79-01-6	Trichloroethene	32	U	200	32
75-69-4	Trichlorofluoromethane	58	U	400	58
96-18-4	1,2,3-Trichloropropane	66	U	500	66
95-63-6	1,2,4-Trimethylbenzene	30	U	200	30
108-67-8	1,3,5-Trimethylbenzene	32	U	200	32
75-01-4	Vinyl chloride	20	U	200	20
1330-20-7	Xylenes, Total	38	U	400	38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-W Lab Sample ID: 280-36712-10

Matrix: Water Lab File ID: H9110.D

Analysis Method: 8260B Date Collected: 12/05/2012 11:40

Sample wt/vol: 0.1(mL) Date Analyzed: 12/11/2012 12:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		78-120
1868-53-7	Dibromofluoromethane (Surr)	101		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-127
2037-26-5	Toluene-d8 (Surr)	100		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9110.D
Lims ID: 280-36712-B-10 Client ID: INJ-W
Inject. Date: 11-Dec-2012 12:57:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-B-10 .1ml
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 20
Lims Batch ID: 151489 Lims Sample ID: 21
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 13:17:05

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.610	7.598	0.012	98	2265127	12.5	
* 2 Chlorobenzene-d5	119	11.944	11.933	0.011	89	487245	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.747	14.736	0.011	96	782886	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.756	6.745	0.011	59	943595	9.06	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.192	7.181	0.011	96	400530	8.81	
$ 7 Toluene-d8 (Surr)	98	9.733	9.722	0.011	93	2135752	9.00	
$ 8 4-Bromofluorobenzene (Surr)	95	13.442	13.431	0.011	87	1082353	8.59	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					19
43 Acetone	43	4.232	4.215	0.017	94	559096	95.6	
52 Methylene Chloride	84	4.702	4.685	0.017	98	127703	1.33	
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					19
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43	6.182	6.164	0.018	98	695160	50.9	
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					19
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					1
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					149
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105		13.929					
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					
123 1,2,4-Trimethylbenzene	105		14.347					19
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119		14.678					19
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					19
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

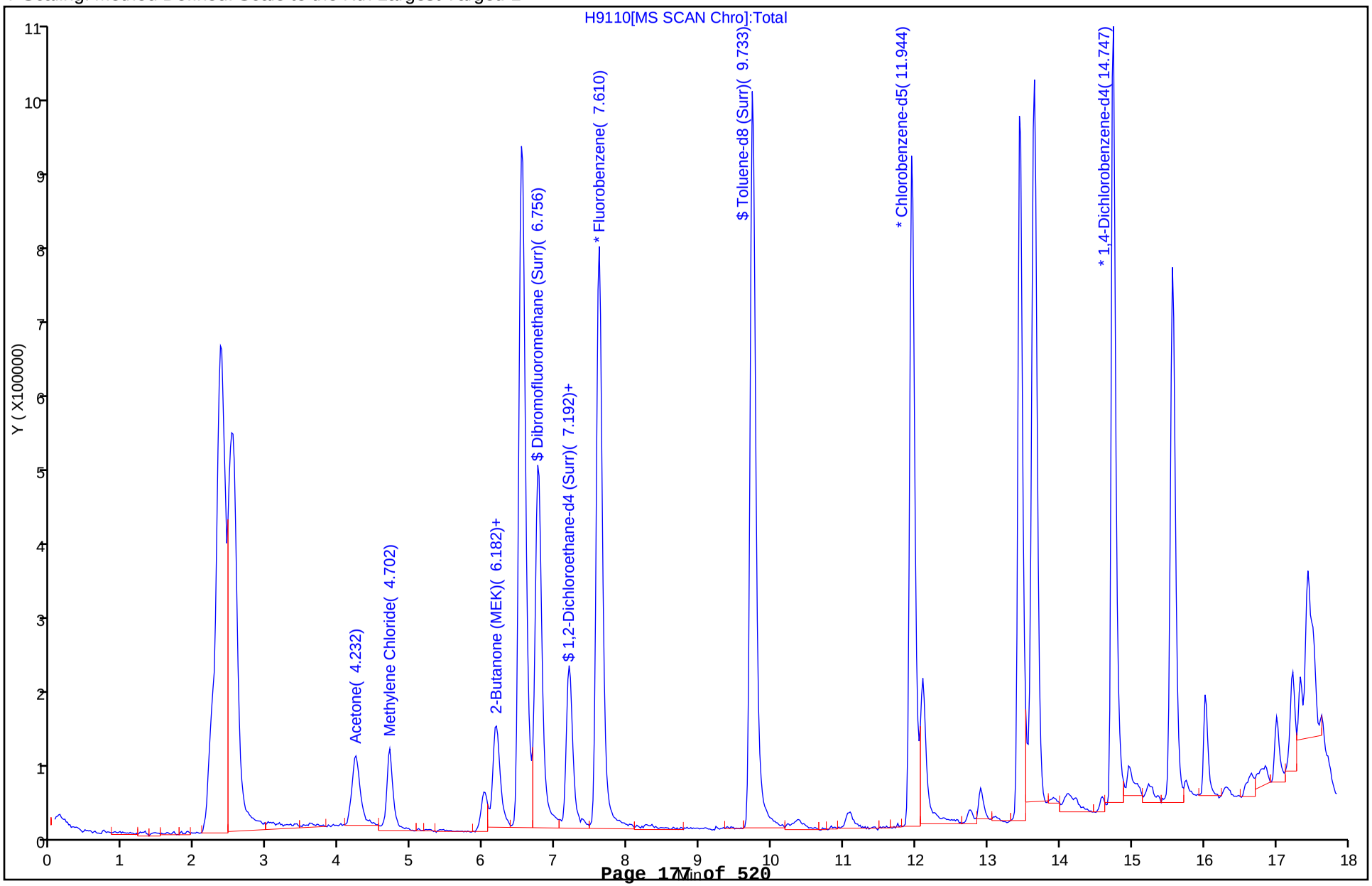
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9110.D

Injection Date:	11-Dec-2012 12:57:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-W	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	21
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



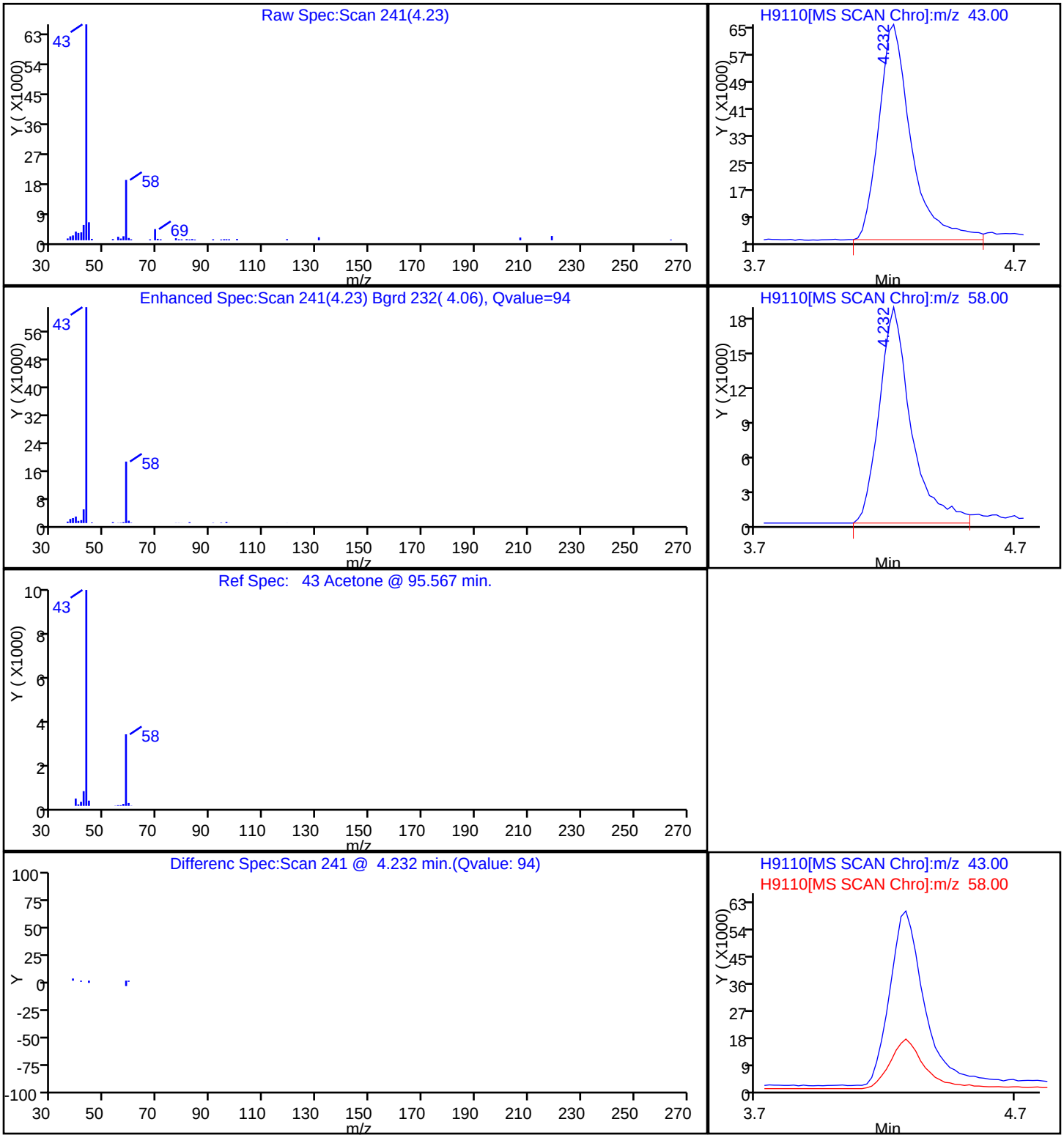
Report Date: 12-Dec-2012 05:43:52 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9110.D

Injection Date:	11-Dec-2012 12:57:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-W	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	21
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

43 Acetone



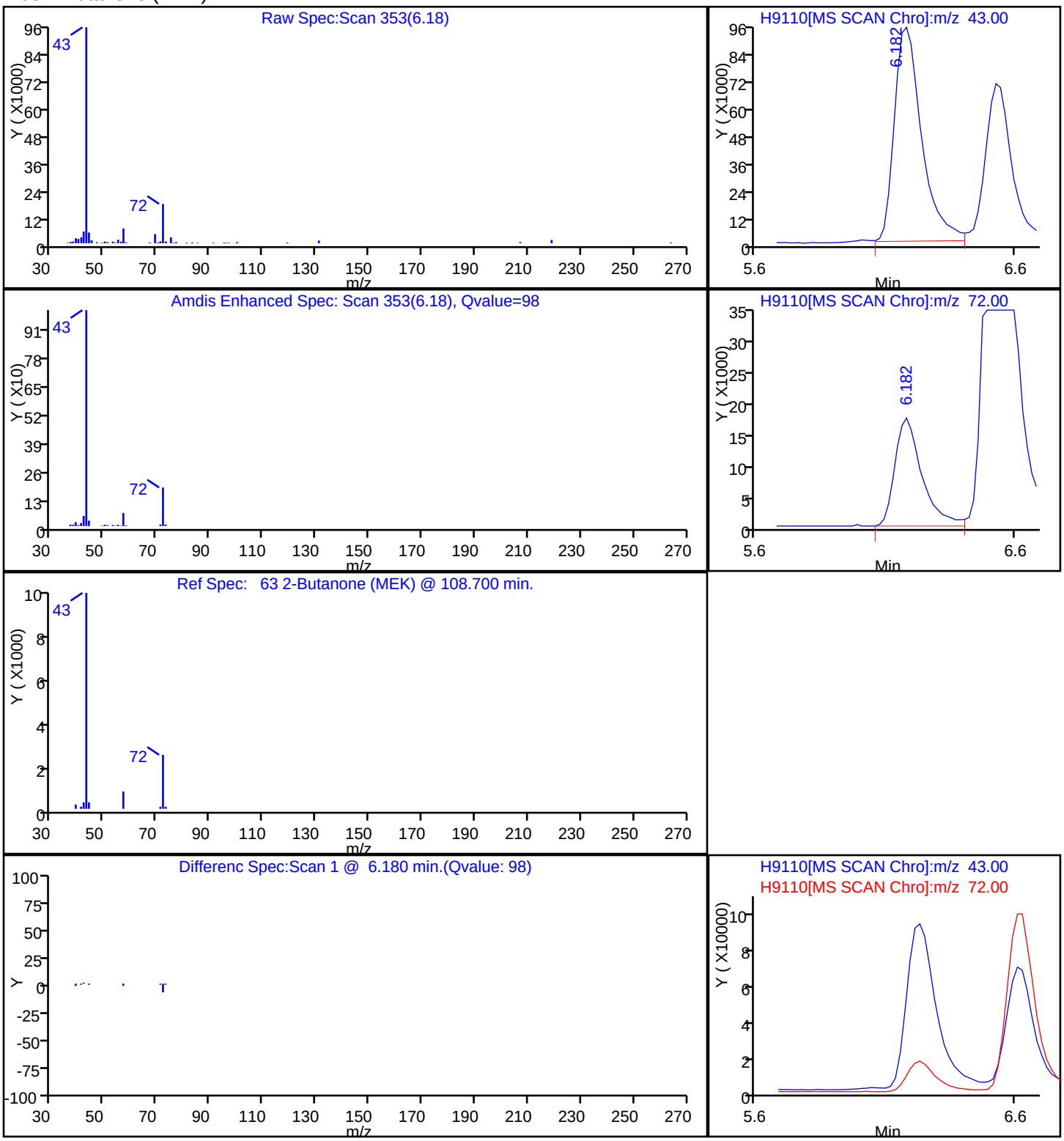
Report Date: 12-Dec-2012 05:43:52 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9110.D

Injection Date:	11-Dec-2012 12:57:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-W	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	21
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

63 2-Butanone (MEK)



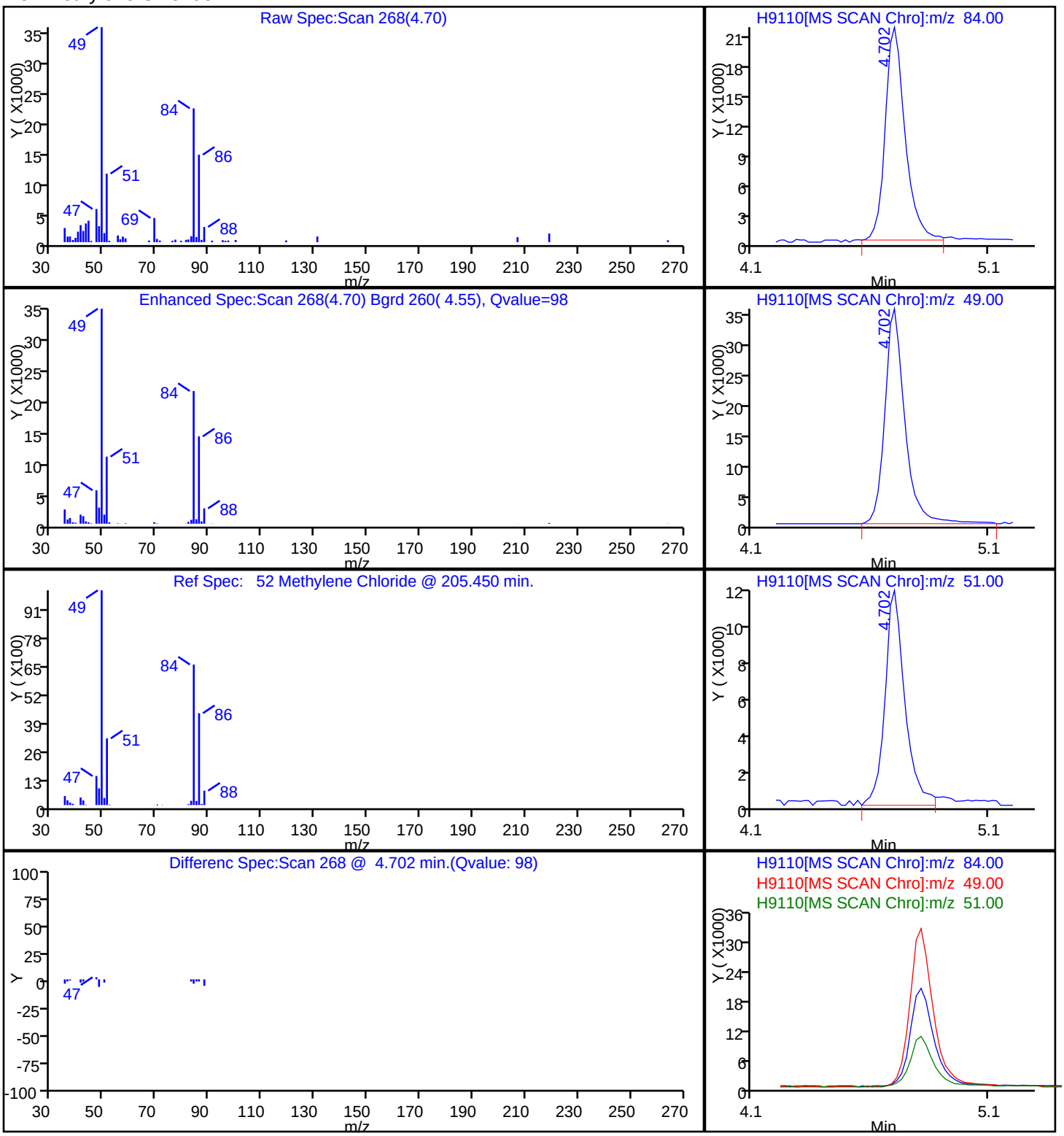
Report Date: 12-Dec-2012 05:43:52 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9110.D

Injection Date:	11-Dec-2012 12:57:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-W	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	21
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-S | Lab Sample ID: 280-36712-11

Matrix: Water | Lab File ID: H9111.D

Analysis Method: 8260B | Date Collected: 12/05/2012 12:15

Sample wt/vol: 0.2(mL) | Date Analyzed: 12/11/2012 13:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	3600		1000	190
71-43-2	Benzene	16	U	100	16
108-86-1	Bromobenzene	17	U	100	17
75-27-4	Bromodichloromethane	17	U	100	17
75-25-2	Bromoform	19	U	100	19
74-83-9	Bromomethane	21	U	200	21
78-93-3	2-Butanone (MEK)	2100		600	200
56-23-5	Carbon tetrachloride	19	U	100	19
108-90-7	Chlorobenzene	17	U	100	17
74-97-5	Bromochloromethane	10	U	100	10
124-48-1	Dibromochloromethane	17	U	100	17
75-00-3	Chloroethane	41	U	200	41
67-66-3	Chloroform	16	U	100	16
74-87-3	Chloromethane	30	U	200	30
95-49-8	2-Chlorotoluene	17	U	100	17
106-43-4	4-Chlorotoluene	21	U	100	21
156-59-2	cis-1,2-Dichloroethene	15	U	100	15
10061-01-5	cis-1,3-Dichloropropene	16	U	100	16
96-12-8	1,2-Dibromo-3-Chloropropane	47	U	500	47
106-93-4	1,2-Dibromoethane (EDB)	18	U	100	18
74-95-3	Dibromomethane	17	U	100	17
95-50-1	1,2-Dichlorobenzene	15	U	100	15
541-73-1	1,3-Dichlorobenzene	13	U	100	13
106-46-7	1,4-Dichlorobenzene	16	U	100	16
75-71-8	Dichlorodifluoromethane	31	U	200	31
75-34-3	1,1-Dichloroethane	22	U	100	22
107-06-2	1,2-Dichloroethane	13	U	100	13
75-35-4	1,1-Dichloroethene	23	U	100	23
540-59-0	1,2-Dichloroethene, Total	24	U	100	24
78-87-5	1,2-Dichloropropane	18	U	100	18
142-28-9	1,3-Dichloropropane	22	U	100	22
594-20-7	2,2-Dichloropropane	18	U	100	18
563-58-6	1,1-Dichloropropene	19	U	100	19
100-41-4	Ethylbenzene	16	U	100	16
87-68-3	Hexachlorobutadiene	36	U	100	36
591-78-6	2-Hexanone	170	U	500	170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-S | Lab Sample ID: 280-36712-11

Matrix: Water | Lab File ID: H9111.D

Analysis Method: 8260B | Date Collected: 12/05/2012 12:15

Sample wt/vol: 0.2(mL) | Date Analyzed: 12/11/2012 13:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	19	U	100	19
99-87-6	4-Isopropyltoluene	20	U	100	20
75-09-2	Methylene Chloride	78	J	200	32
108-10-1	4-Methyl-2-pentanone	98	U	500	98
1634-04-4	Methyl tert-butyl ether	25	U	500	25
179601-23-1	m-Xylene & p-Xylene	34	U	200	34
91-20-3	Naphthalene	22	U	100	22
104-51-8	n-Butylbenzene	32	U	100	32
103-65-1	n-Propylbenzene	16	U	100	16
95-47-6	o-Xylene	19	U	100	19
135-98-8	sec-Butylbenzene	17	U	100	17
100-42-5	Styrene	17	U	100	17
98-06-6	tert-Butylbenzene	16	U	100	16
630-20-6	1,1,1,2-Tetrachloroethane	21	U	100	21
79-34-5	1,1,2,2-Tetrachloroethane	21	U	100	21
127-18-4	Tetrachloroethene	20	U	100	20
108-88-3	Toluene	17	U	100	17
156-60-5	trans-1,2-Dichloroethene	15	U	100	15
10061-02-6	trans-1,3-Dichloropropene	19	U	300	19
87-61-6	1,2,3-Trichlorobenzene	21	U	100	21
120-82-1	1,2,4-Trichlorobenzene	21	U	100	21
71-55-6	1,1,1-Trichloroethane	16	U	100	16
79-00-5	1,1,2-Trichloroethane	27	U	100	27
79-01-6	Trichloroethene	16	U	100	16
75-69-4	Trichlorofluoromethane	29	U	200	29
96-18-4	1,2,3-Trichloropropane	33	U	250	33
95-63-6	1,2,4-Trimethylbenzene	15	U	100	15
108-67-8	1,3,5-Trimethylbenzene	16	U	100	16
75-01-4	Vinyl chloride	10	U	100	10
1330-20-7	Xylenes, Total	19	U	200	19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-S Lab Sample ID: 280-36712-11

Matrix: Water Lab File ID: H9111.D

Analysis Method: 8260B Date Collected: 12/05/2012 12:15

Sample wt/vol: 0.2(mL) Date Analyzed: 12/11/2012 13:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		78-120
1868-53-7	Dibromofluoromethane (Surr)	102		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-127
2037-26-5	Toluene-d8 (Surr)	101		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9111.D
Lims ID: 280-36712-B-11 Client ID: INJ-S
Inject. Date: 11-Dec-2012 13:19:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-B-11 .2ml
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 21
Lims Batch ID: 151489 Lims Sample ID: 22
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 12-Dec-2012 05:39:22

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.615	7.598	0.017	98	2230355	12.5	
* 2 Chlorobenzene-d5	119	11.950	11.933	0.017	87	479988	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.753	14.736	0.017	96	751242	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.762	6.745	0.017	59	942473	9.19	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.197	7.181	0.016	95	394180	8.80	
$ 7 Toluene-d8 (Surr)	98	9.739	9.722	0.017	93	2119601	9.07	
$ 8 4-Bromofluorobenzene (Surr)	95	13.447	13.431	0.016	86	1078699	8.92	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43	4.237	4.215	0.022	94	205643	35.7	
52 Methylene Chloride	84	4.707	4.685	0.022	94	98086	0.7772	
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43	6.187	6.164	0.023	97	280631	20.9	
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					19
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					19
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					19
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					19
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105		13.929					19
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					19
123 1,2,4-Trimethylbenzene	105		14.347					
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119		14.678					
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					19
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

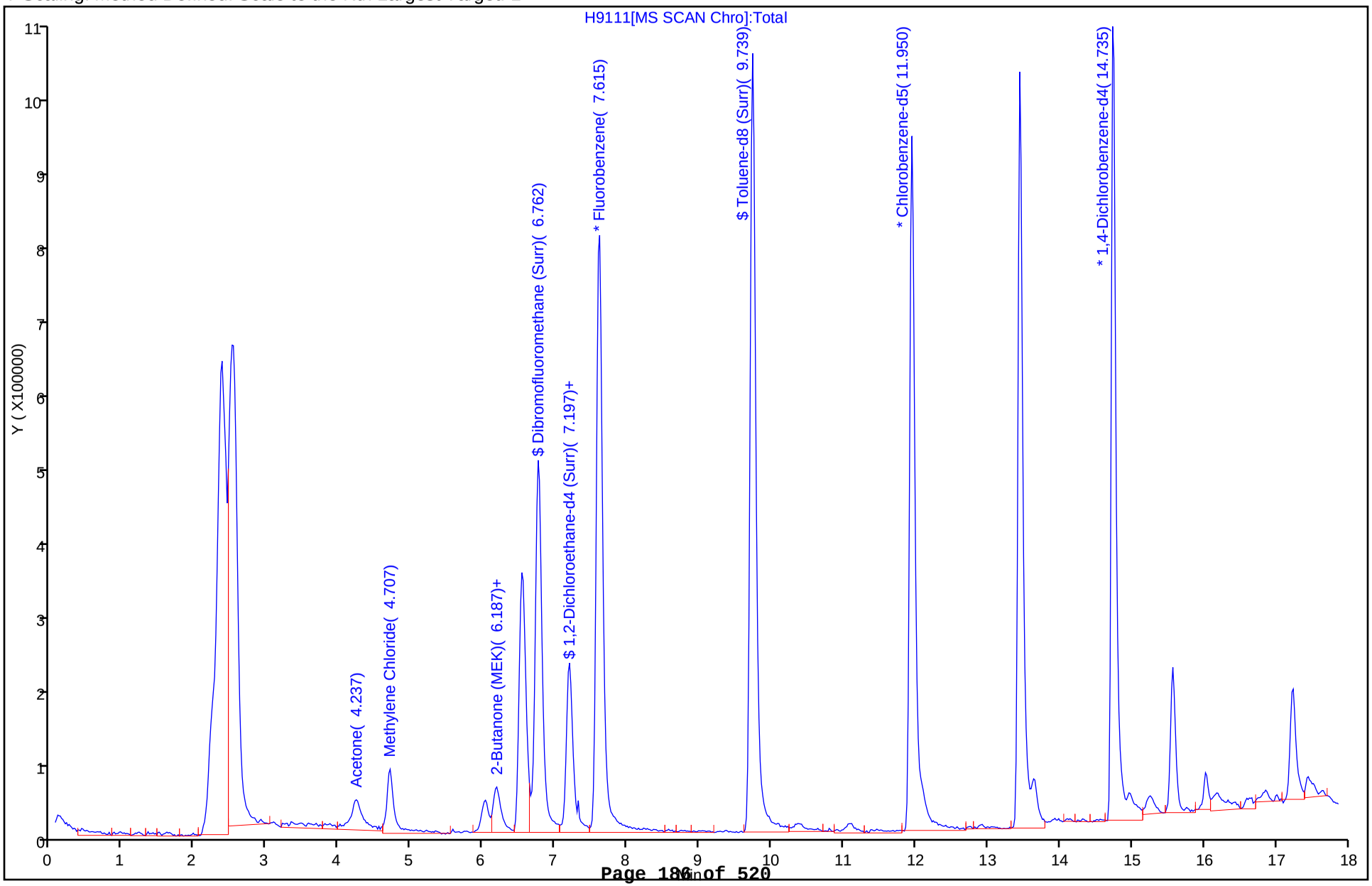
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9111.D

Injection Date:	11-Dec-2012 13:19:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-S	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	22
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



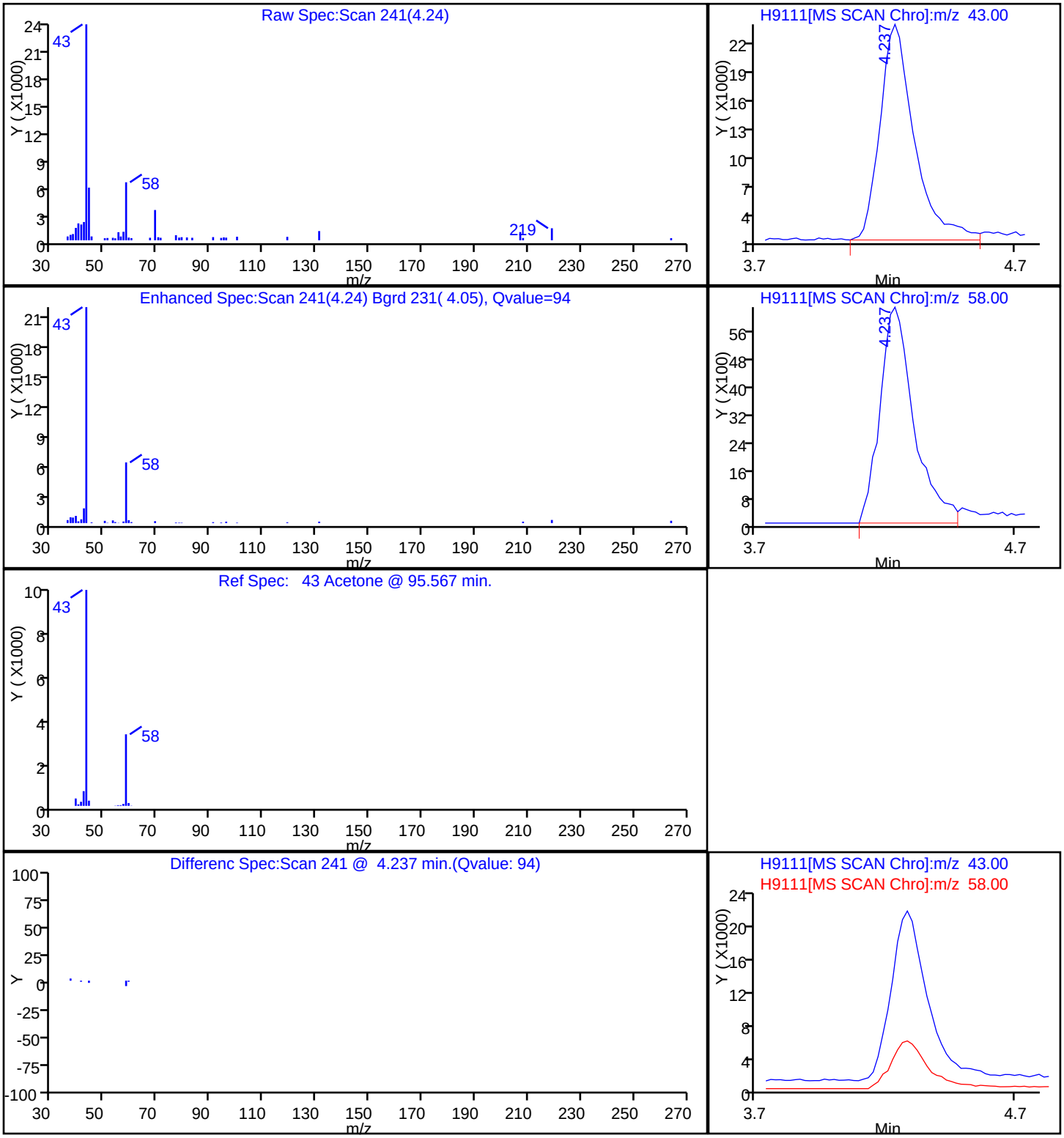
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9111.D

Injection Date:	11-Dec-2012 13:19:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-S	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	22
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

43 Acetone



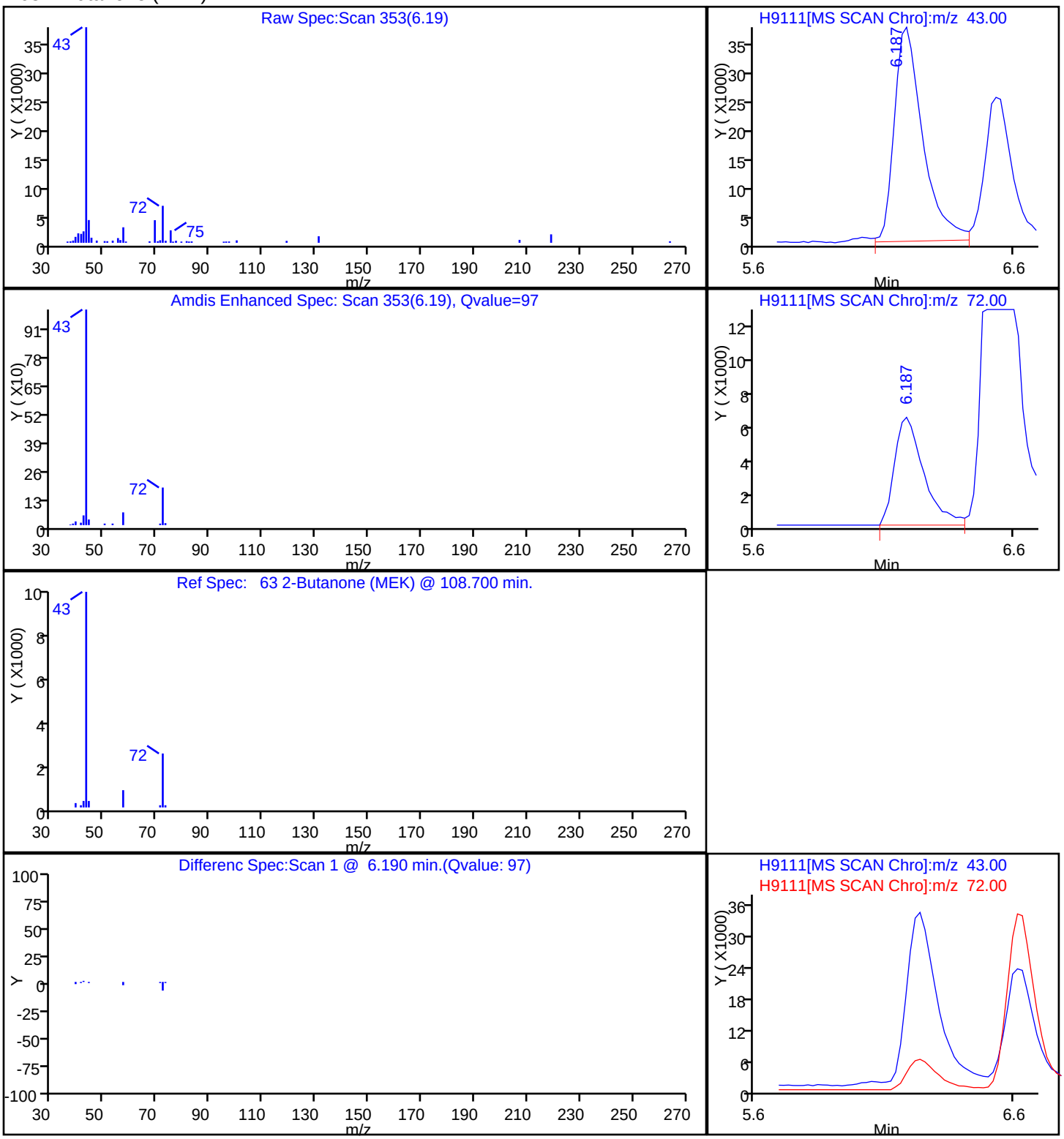
Report Date: 12-Dec-2012 05:43:52 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9111.D

Injection Date:	11-Dec-2012 13:19:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-S	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	22
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

63 2-Butanone (MEK)



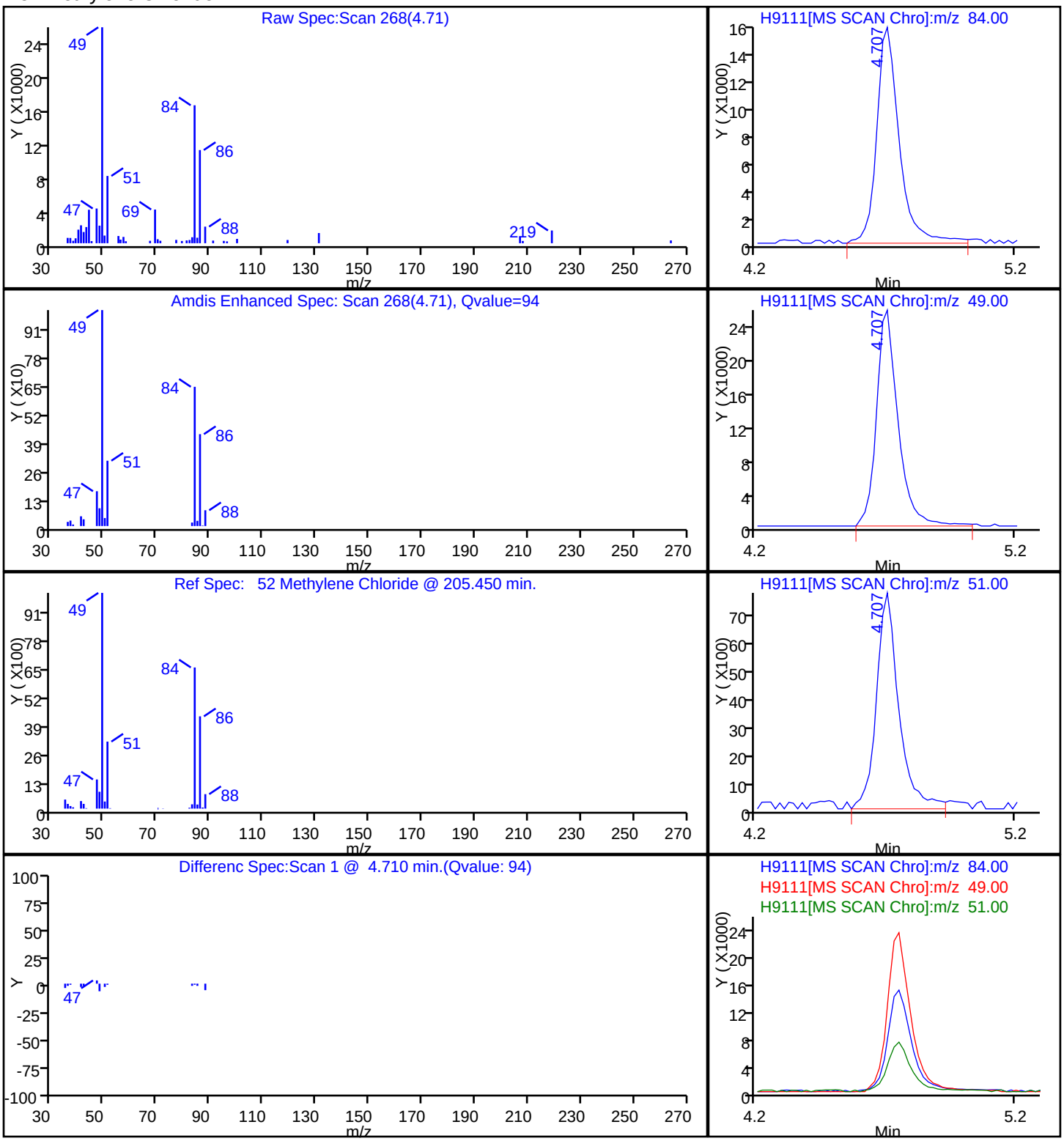
Report Date: 12-Dec-2012 05:43:52 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9111.D

Injection Date:	11-Dec-2012 13:19:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-S	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	22
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

52 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-E | Lab Sample ID: 280-36712-12

Matrix: Water | Lab File ID: H9108.D

Analysis Method: 8260B | Date Collected: 12/05/2012 12:50

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 12:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	160		10	1.9
71-43-2	Benzene	0.20	J	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.95	J	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	81		6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.29	J	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	2.4		1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.20	J	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.36	J	1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-E | Lab Sample ID: 280-36712-12

Matrix: Water | Lab File ID: H9108.D

Analysis Method: 8260B | Date Collected: 12/05/2012 12:50

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 12:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	1.2	J	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.32	U	1.0	0.32
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.20	J	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.36	J	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.78	J	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.48	J	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	1.4	J	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-E Lab Sample ID: 280-36712-12

Matrix: Water Lab File ID: H9108.D

Analysis Method: 8260B Date Collected: 12/05/2012 12:50

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 12:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
1868-53-7	Dibromofluoromethane (Surr)	105		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
2037-26-5	Toluene-d8 (Surr)	105		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9108.D
Lims ID: 280-36712-B-12 Client ID: INJ-E
Inject. Date: 11-Dec-2012 12:12:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-B-12
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 18
Lims Batch ID: 151489 Lims Sample ID: 19
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 12:45:36

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.614	7.598	0.016	99	2285459	12.5	
* 2 Chlorobenzene-d5	119	11.949	11.933	0.016	86	489645	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.735	14.736	-0.001	96	779451	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.761	6.745	0.016	68	994184	9.46	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.197	7.181	0.016	95	416517	9.08	
$ 7 Toluene-d8 (Surr)	98	9.738	9.722	0.016	93	2244003	9.41	
$ 8 4-Bromofluorobenzene (Surr)	95	13.447	13.431	0.016	87	1138871	9.07	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					19
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43	4.220	4.215	0.005	94	920326	156.0	
52 Methylene Chloride	84		4.685					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43	6.169	6.164	0.005	96	1111477	80.7	
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83	6.552	6.547	0.005	81	301126	2.37	
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					39
76 Carbon tetrachloride	117		7.000					
79 Benzene	78	7.266	7.244	0.022	91	41702	0.1951	
78 1,2-Dichloroethane	62	7.284	7.279	0.005	1	10190	0.1978	
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83	8.764	8.741	0.023	96	105288	0.9463	
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91	9.843	9.820	0.023	93	88536	0.3563	
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129	11.131	11.091	0.040	36	23465	0.2876	
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					
105 Ethylbenzene	106	12.124	12.119	0.005	94	32532	0.3606	
107 m-Xylene & p-Xylene	106	12.280	12.275	0.005	0	138896	1.16	
109 o-Xylene	106	12.803	12.780	0.023	90	21717	0.1999	
108 Styrene	104		12.797					
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					19
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105	13.934	13.929	0.005	91	109728	0.4798	
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					
123 1,2,4-Trimethylbenzene	105	14.352	14.347	0.005	98	170506	0.7792	
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119	14.683	14.678	0.005	35	44879	0.1716	
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		1.36	

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

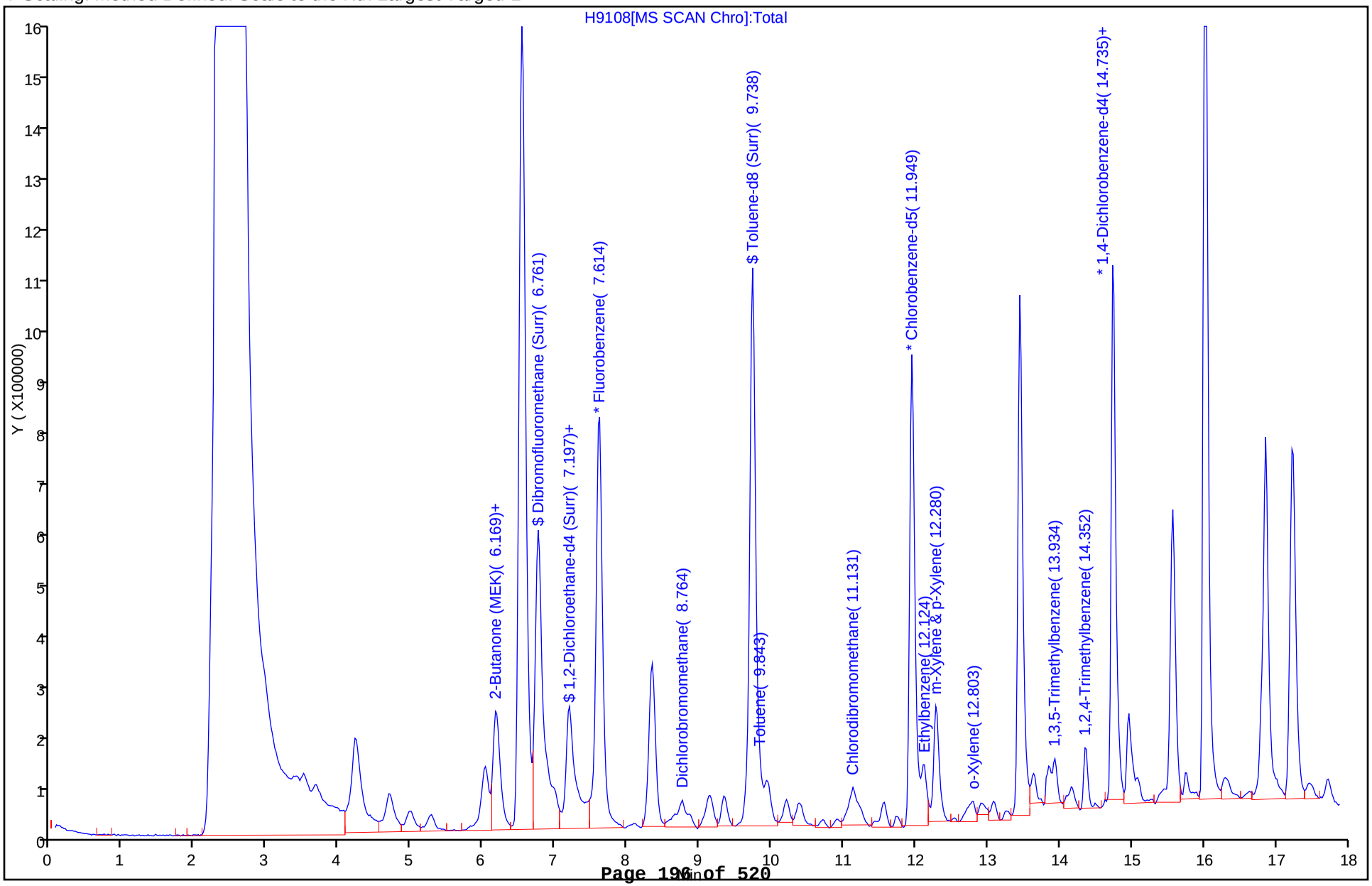
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9108.D

Injection Date:	11-Dec-2012 12:12:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-E	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



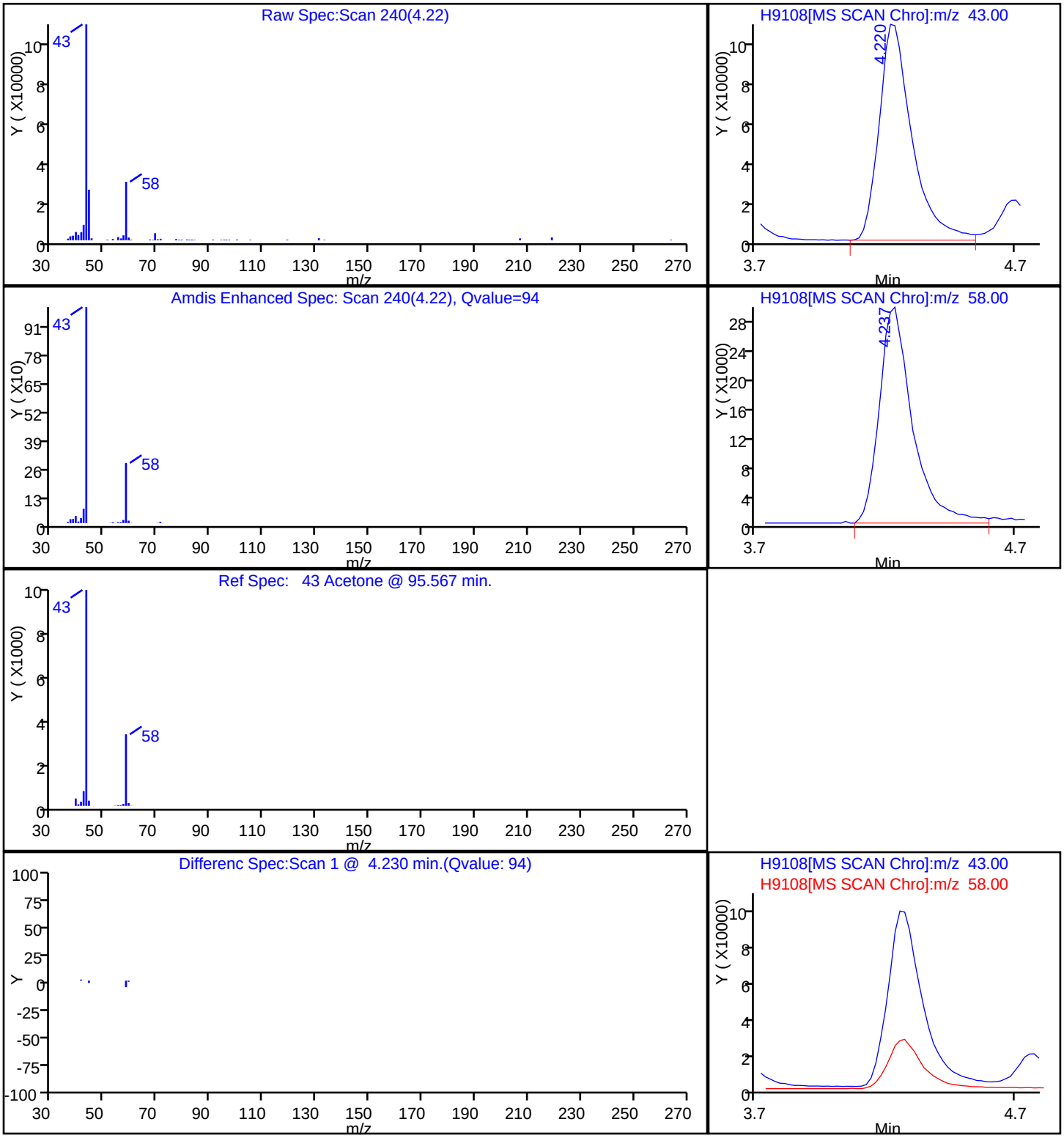
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TestAmerica Denver

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Client ID:	INJ-E	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

43 Acetone



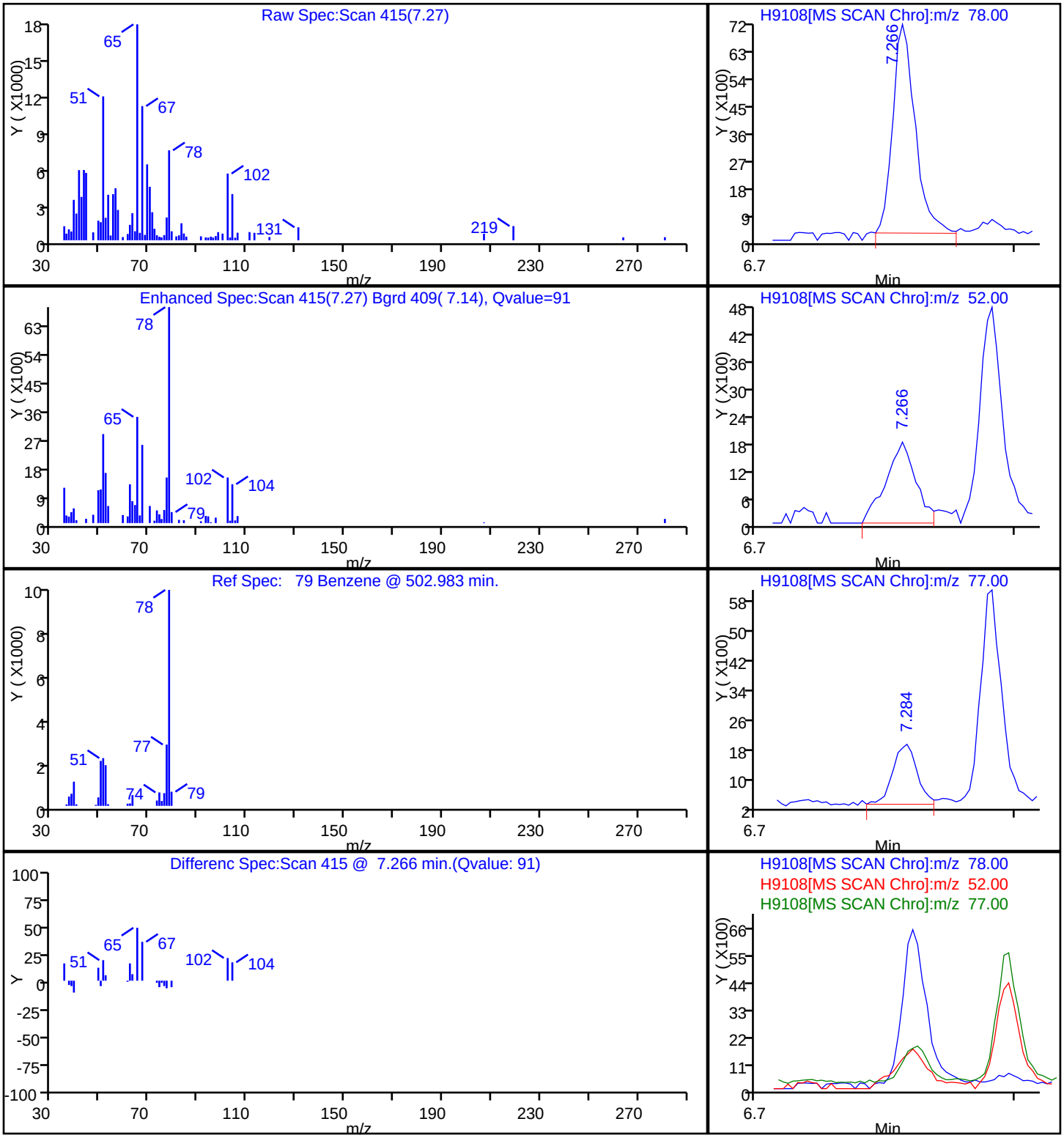
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9108.D

Injection Date:	11-Dec-2012 12:12:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-E	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

79 Benzene



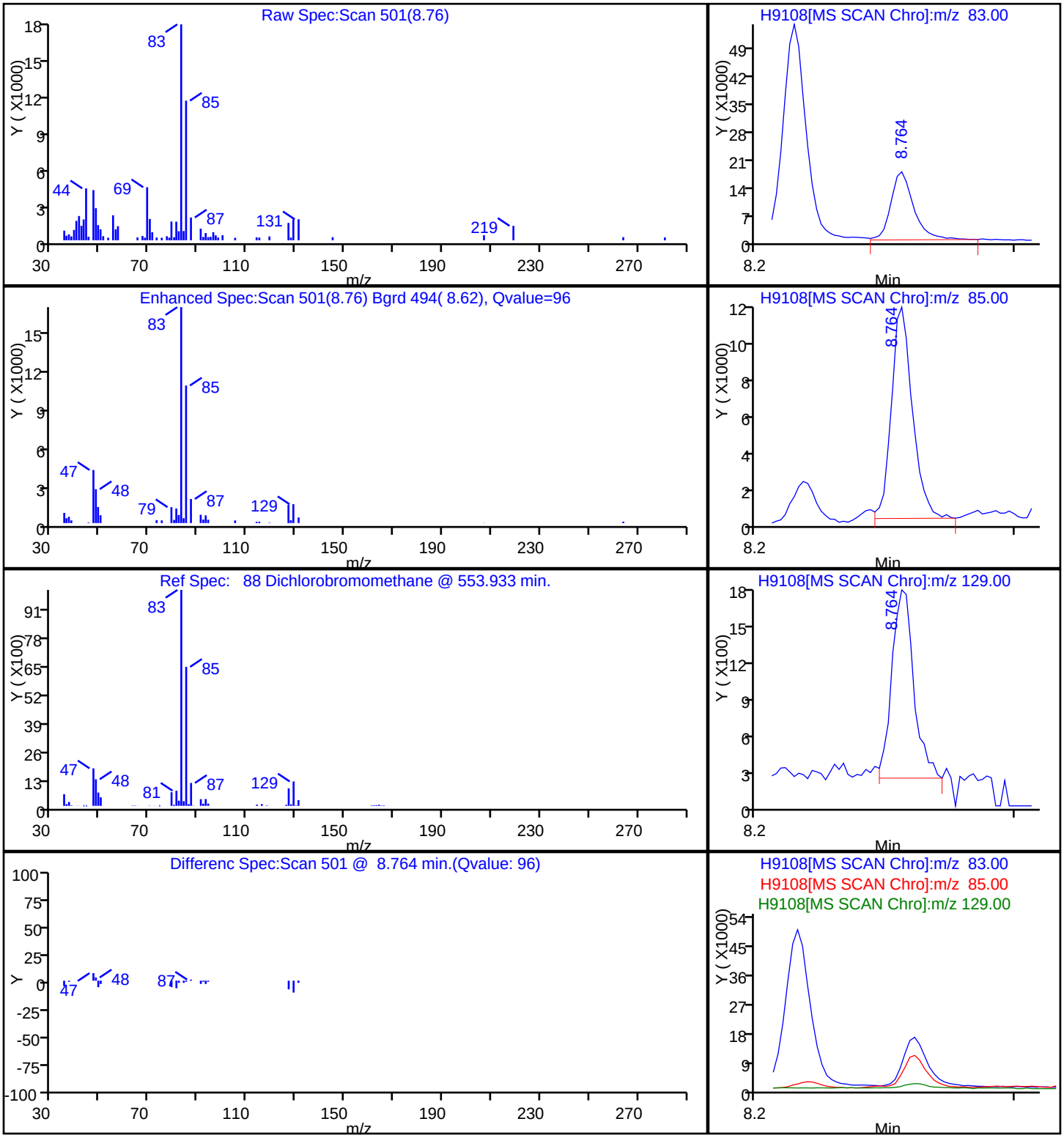
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TestAmerica Denver

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Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

88 Dichlorobromomethane



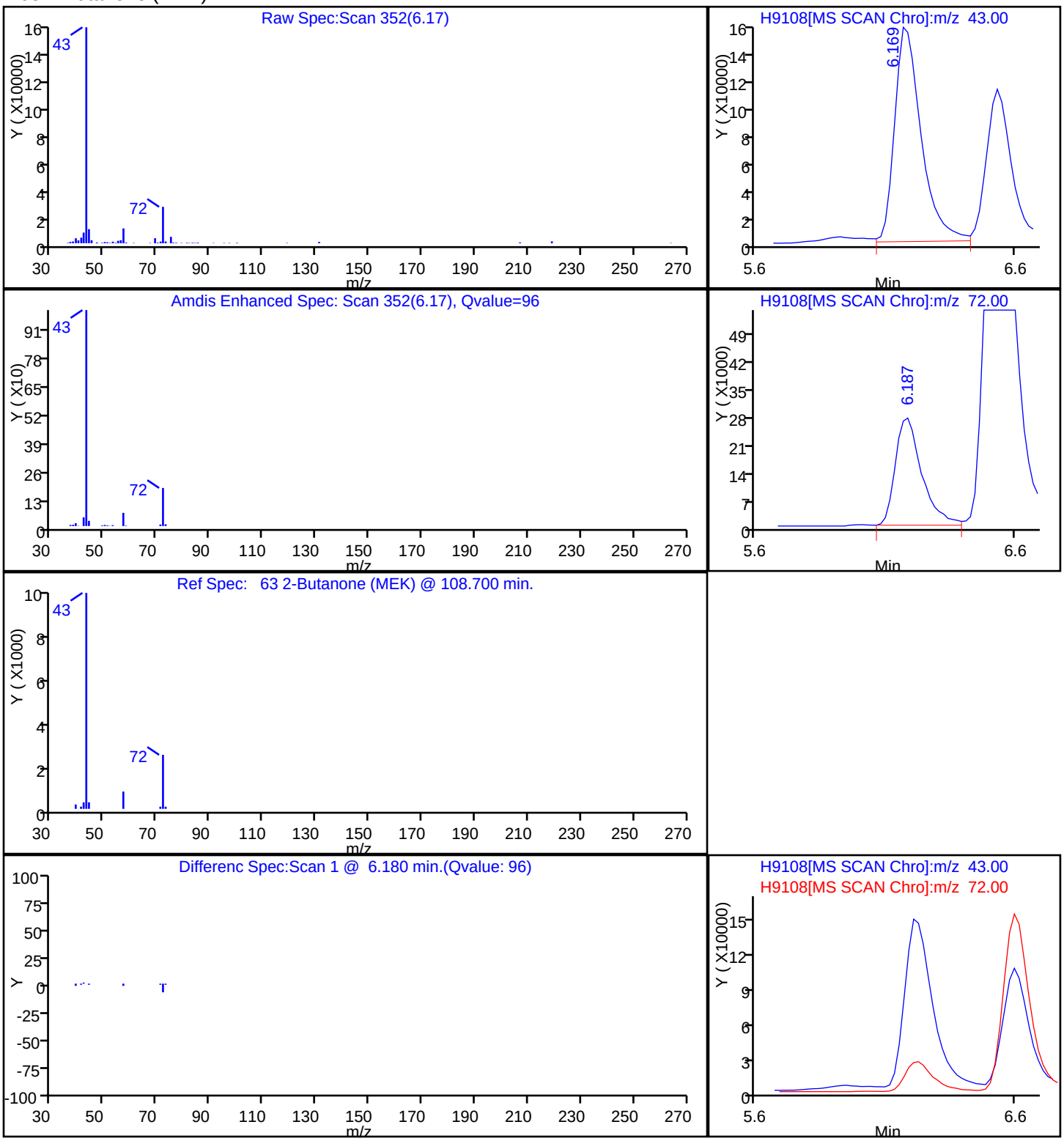
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TestAmerica Denver

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Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

63 2-Butanone (MEK)



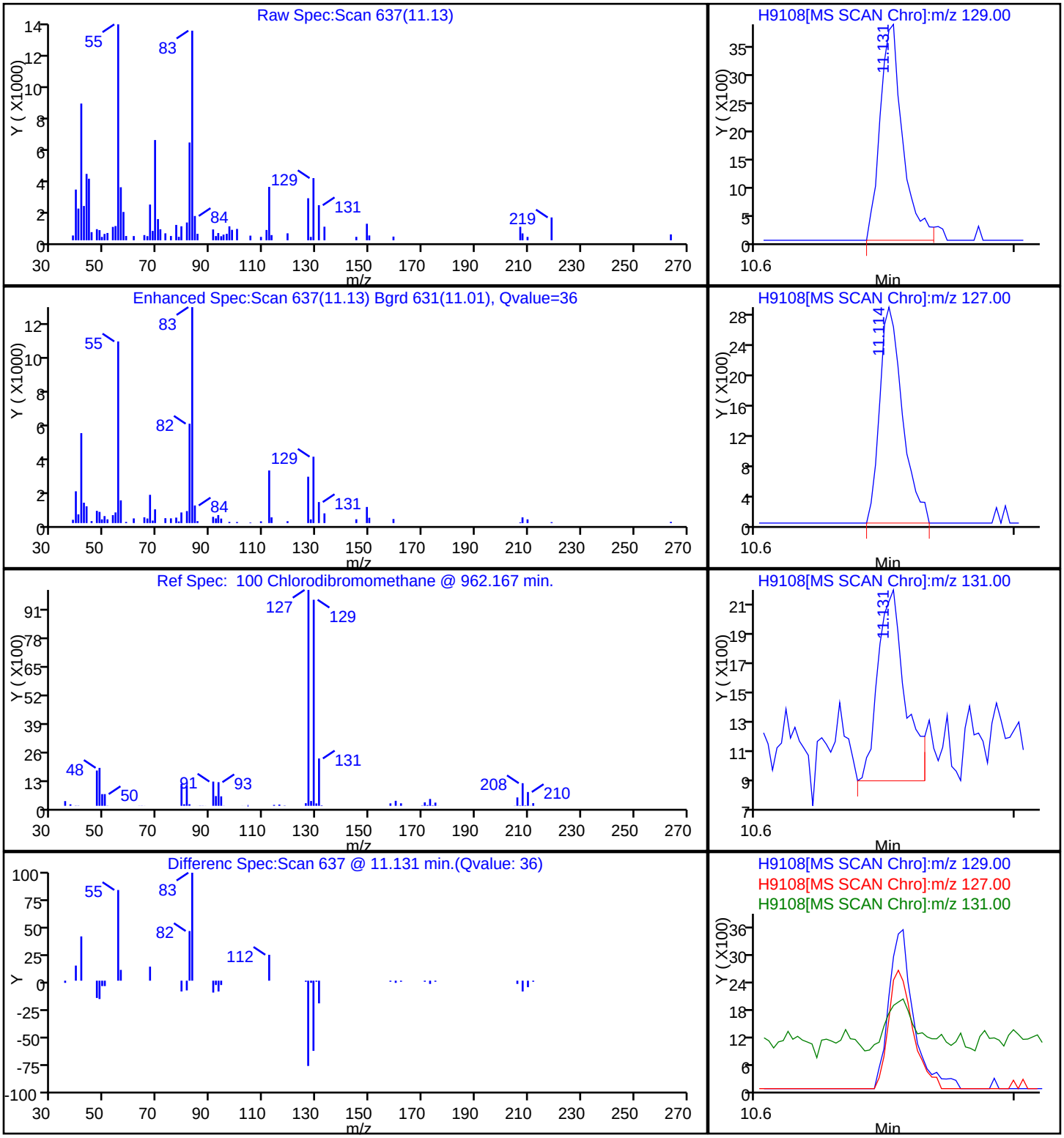
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TestAmerica Denver

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Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

100 Chlorodibromomethane



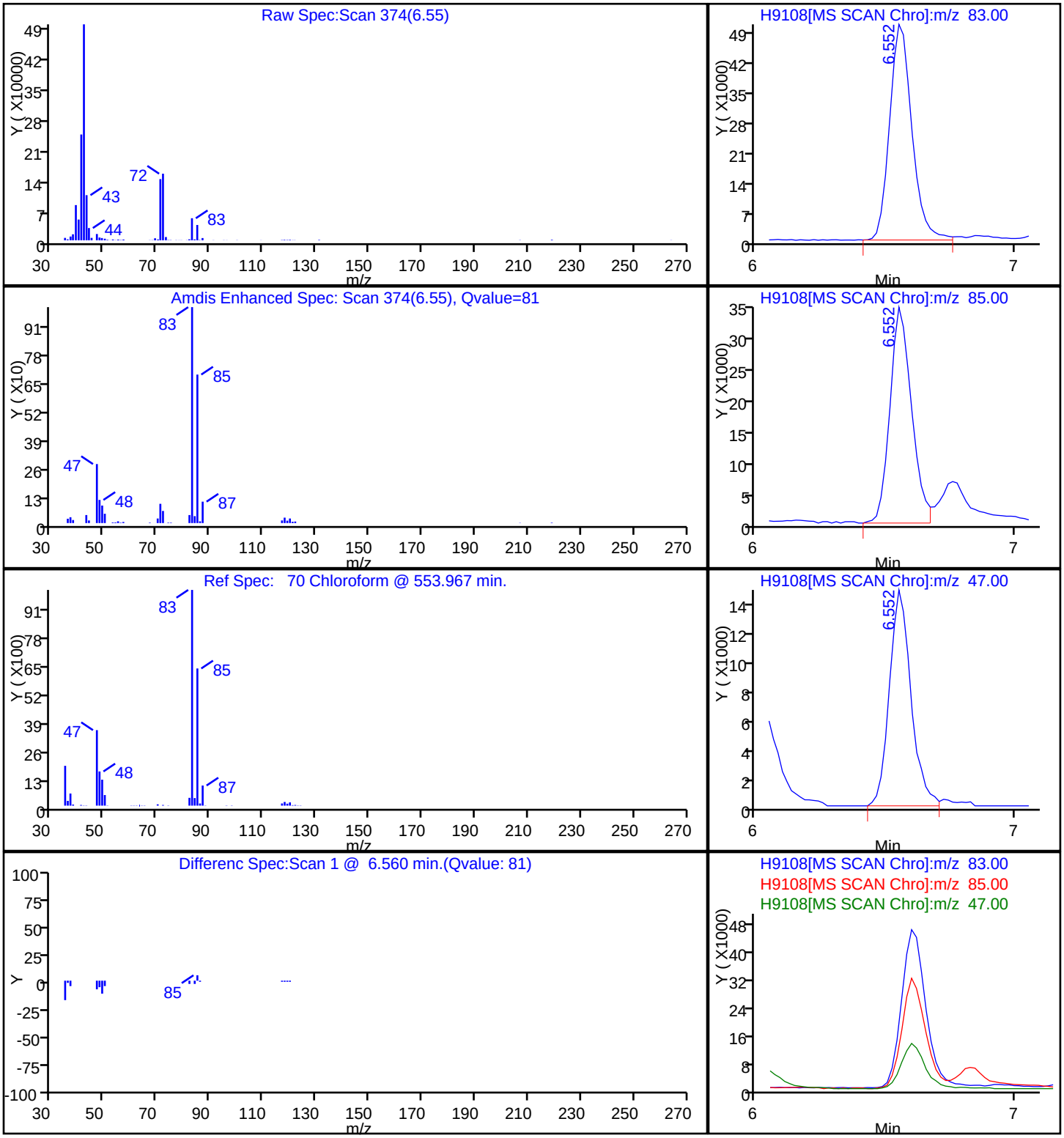
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9108.D

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Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

70 Chloroform



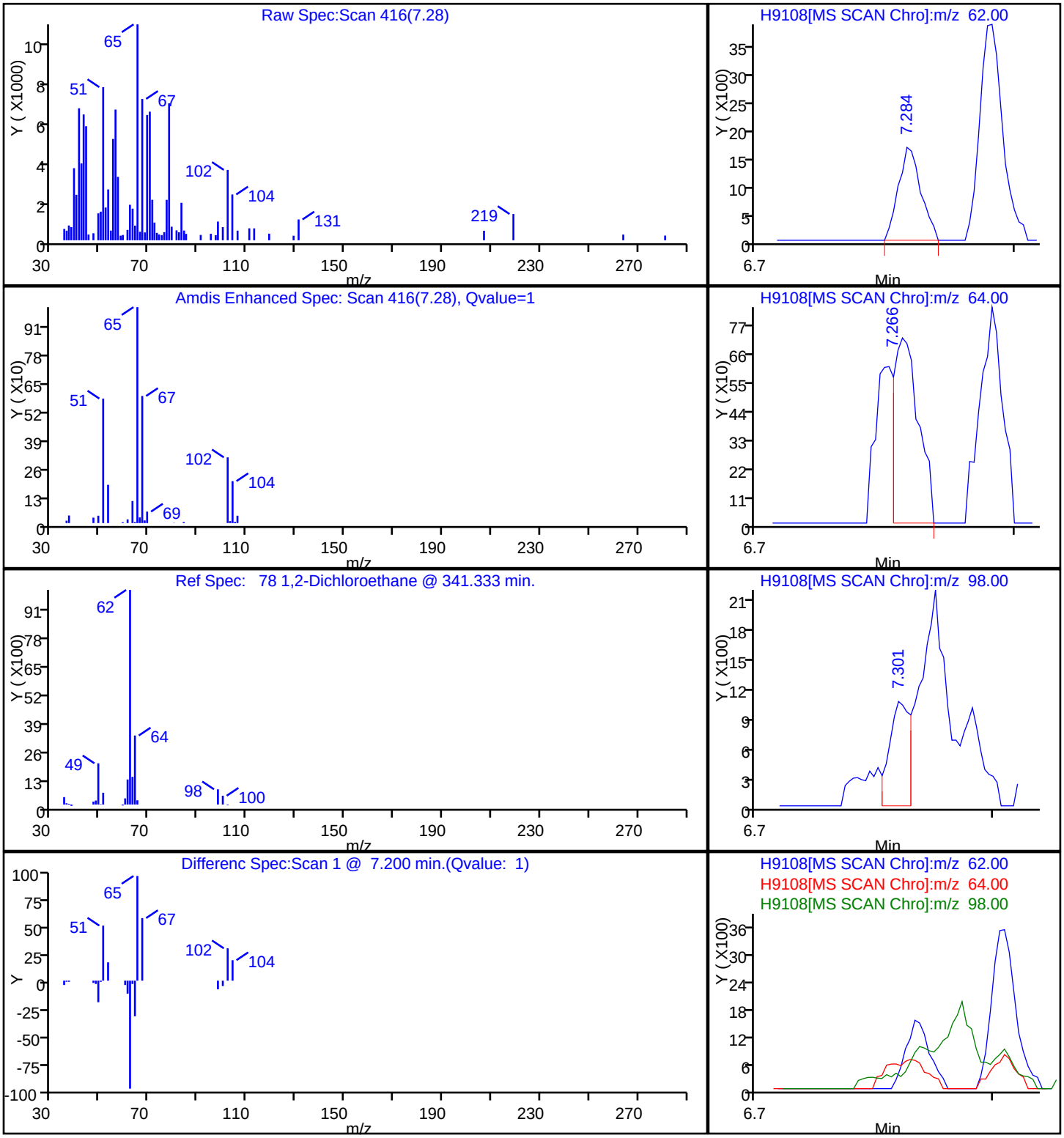
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TestAmerica Denver

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Client ID:	INJ-E	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

78 1,2-Dichloroethane



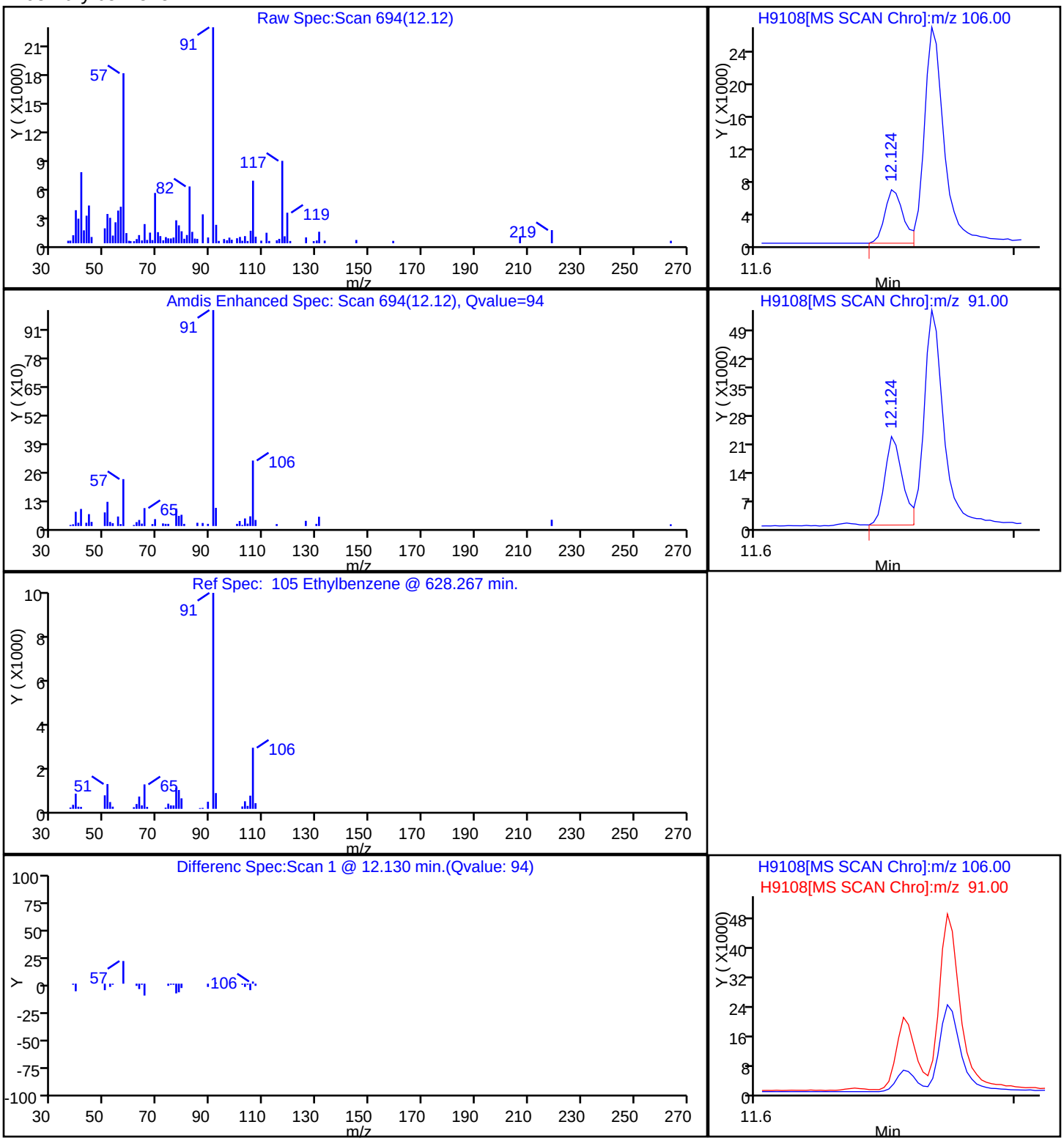
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TestAmerica Denver

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Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

105 Ethylbenzene



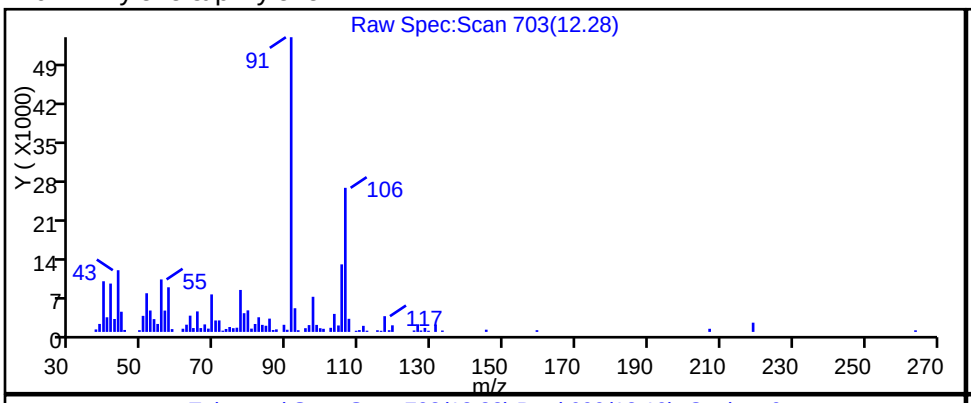
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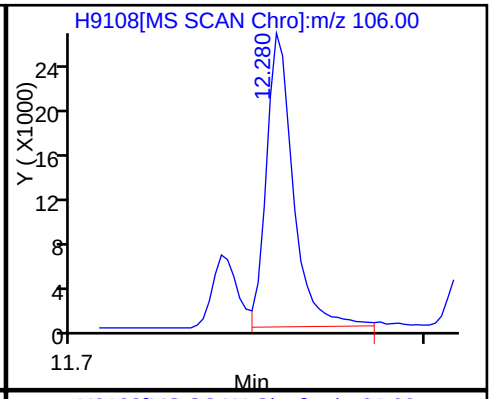
TestAmerica Denver

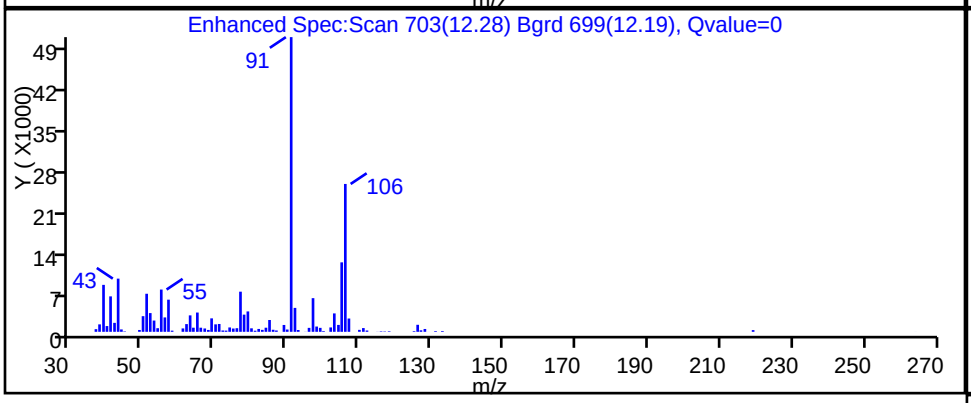
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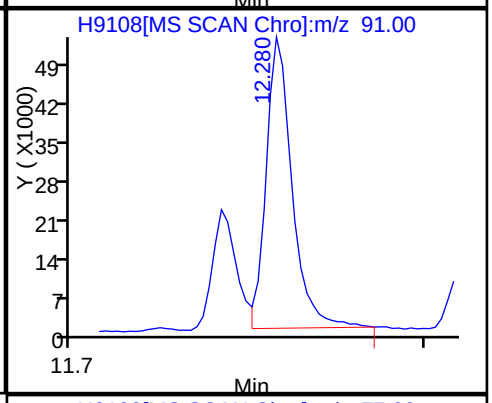
Injection Date:	11-Dec-2012 12:12:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-E	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

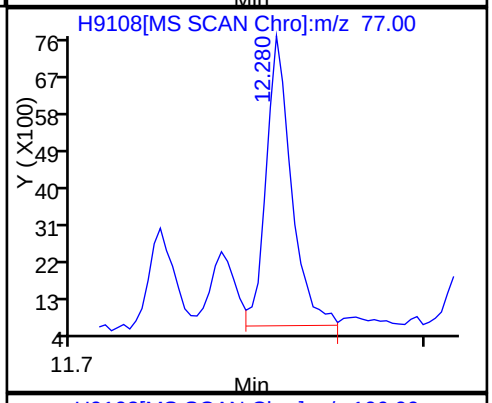
107 m-Xylene & p-Xylene

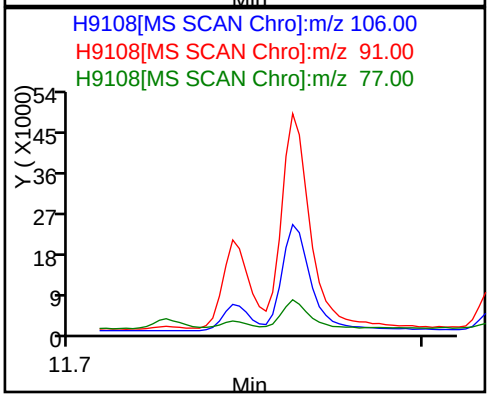












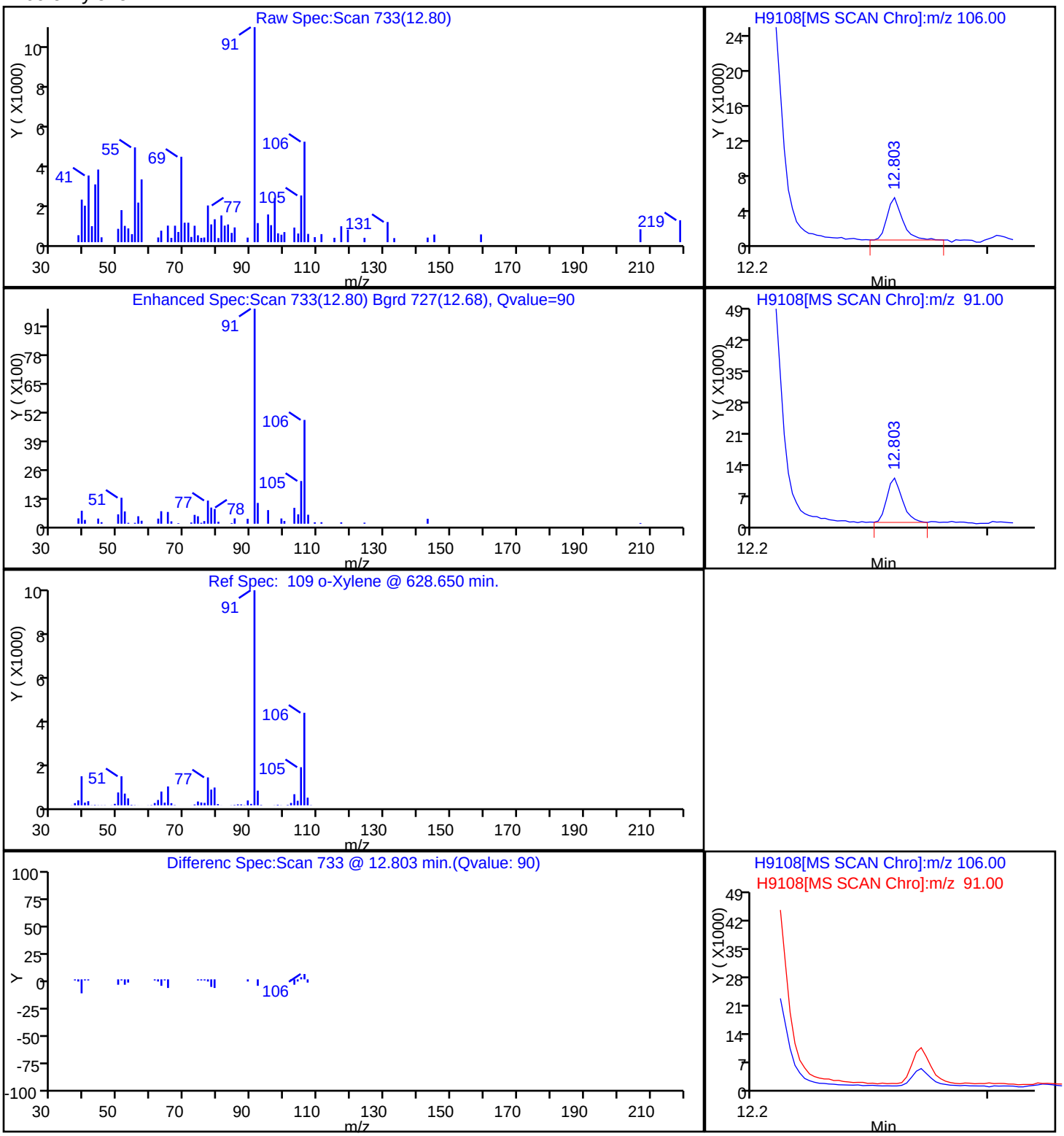
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9108.D

Injection Date:	11-Dec-2012 12:12:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-E	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

109 o-Xylene



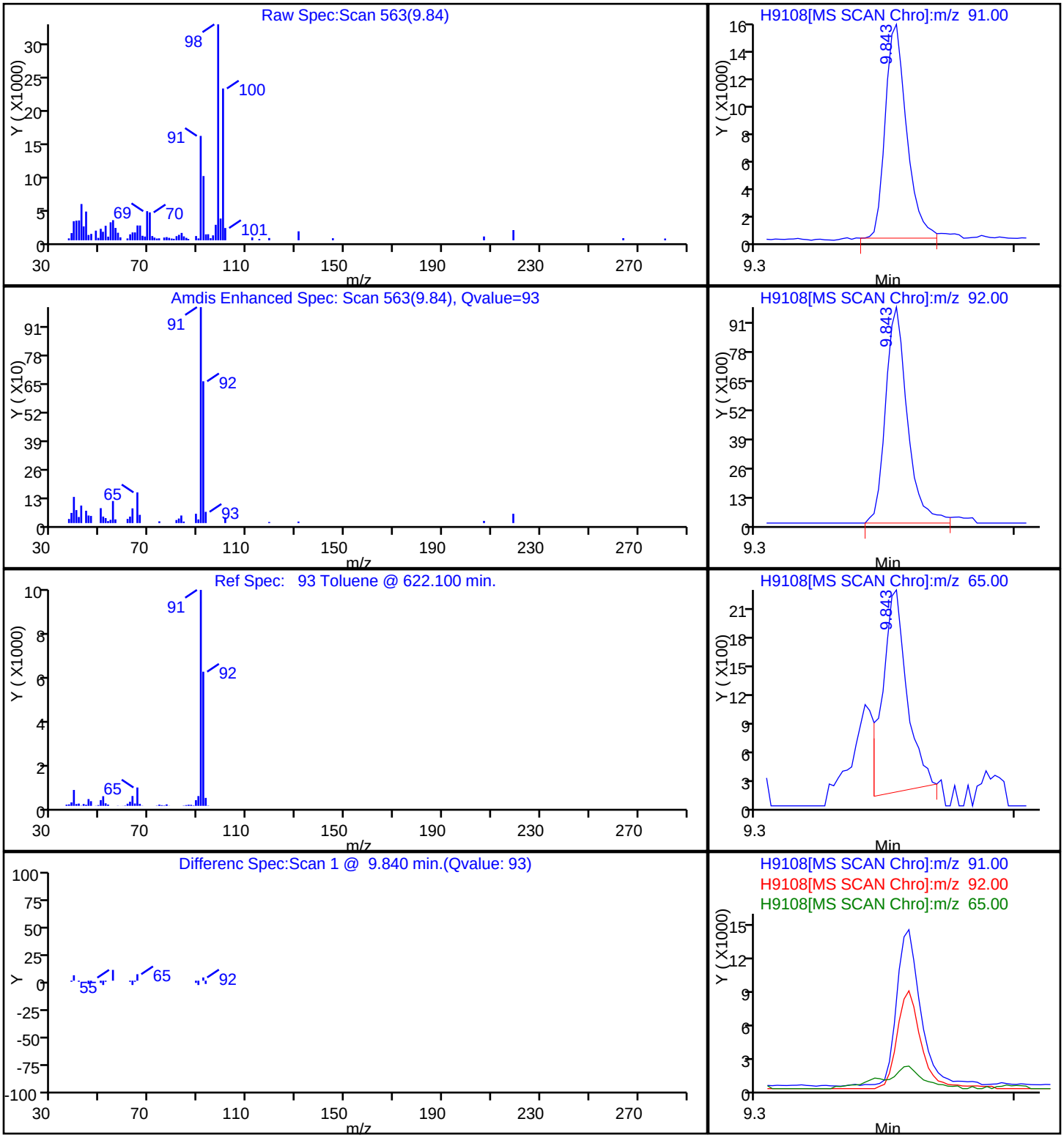
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9108.D

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Client ID:	INJ-E	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

93 Toluene



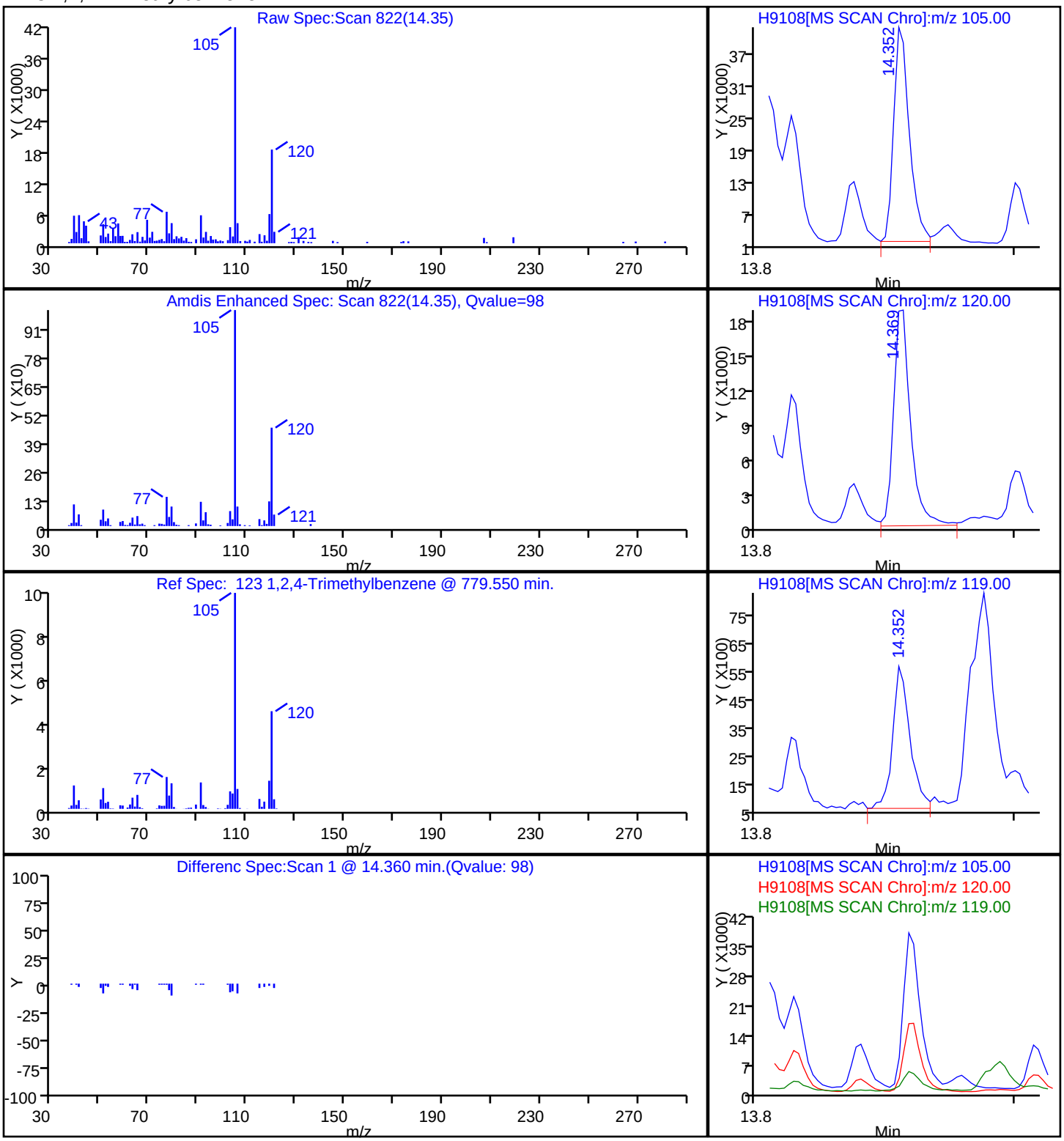
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9108.D

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Client ID:	INJ-E	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

123 1,2,4-Trimethylbenzene



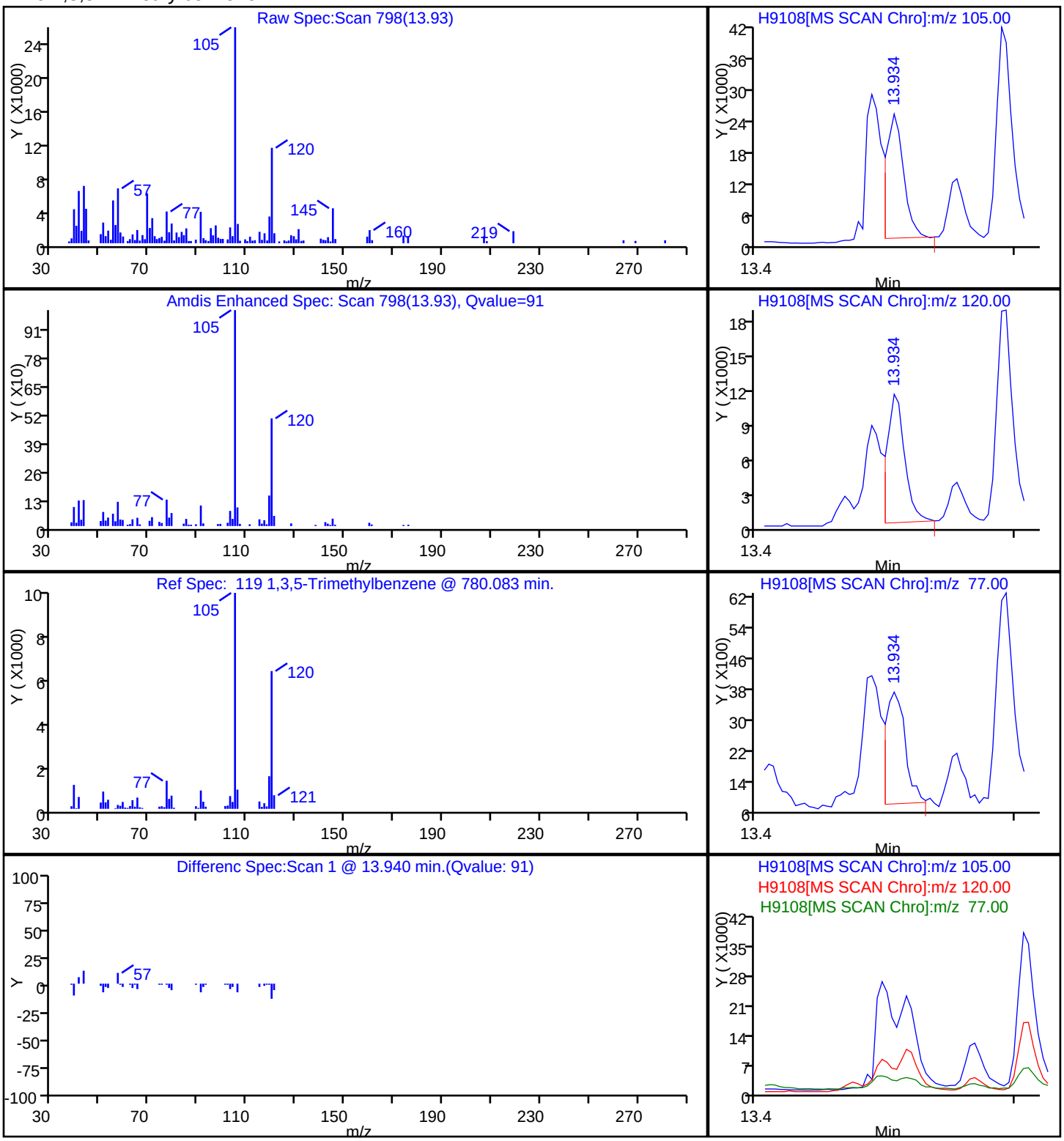
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TestAmerica Denver

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Client ID:	INJ-E	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	19
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

119 1,3,5-Trimethylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-N | Lab Sample ID: 280-36712-13

Matrix: Water | Lab File ID: H9112.D

Analysis Method: 8260B | Date Collected: 12/05/2012 13:30

Sample wt/vol: 2(mL) | Date Analyzed: 12/11/2012 13:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1900		100	19
71-43-2	Benzene	68		10	1.6
108-86-1	Bromobenzene	1.7	U	10	1.7
75-27-4	Bromodichloromethane	1.7	U	10	1.7
75-25-2	Bromoform	1.9	U	10	1.9
74-83-9	Bromomethane	2.1	U	20	2.1
78-93-3	2-Butanone (MEK)	1200		60	20
56-23-5	Carbon tetrachloride	1.9	U	10	1.9
108-90-7	Chlorobenzene	1.7	U	10	1.7
74-97-5	Bromochloromethane	1.0	U	10	1.0
124-48-1	Dibromochloromethane	1.7	U	10	1.7
75-00-3	Chloroethane	4.1	U	20	4.1
67-66-3	Chloroform	1.6	U	10	1.6
74-87-3	Chloromethane	3.0	U	20	3.0
95-49-8	2-Chlorotoluene	1.7	U	10	1.7
106-43-4	4-Chlorotoluene	2.1	U	10	2.1
156-59-2	cis-1,2-Dichloroethene	1.5	U	10	1.5
10061-01-5	cis-1,3-Dichloropropene	1.6	U	10	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	4.7	U	50	4.7
106-93-4	1,2-Dibromoethane (EDB)	1.8	U	10	1.8
74-95-3	Dibromomethane	1.7	U	10	1.7
95-50-1	1,2-Dichlorobenzene	1.5	U	10	1.5
541-73-1	1,3-Dichlorobenzene	1.3	U	10	1.3
106-46-7	1,4-Dichlorobenzene	1.6	U	10	1.6
75-71-8	Dichlorodifluoromethane	3.1	U	20	3.1
75-34-3	1,1-Dichloroethane	2.2	U	10	2.2
107-06-2	1,2-Dichloroethane	36		10	1.3
75-35-4	1,1-Dichloroethene	2.3	U	10	2.3
540-59-0	1,2-Dichloroethene, Total	2.4	U	10	2.4
78-87-5	1,2-Dichloropropane	1.8	U	10	1.8
142-28-9	1,3-Dichloropropane	2.2	U	10	2.2
594-20-7	2,2-Dichloropropane	1.8	U	10	1.8
563-58-6	1,1-Dichloropropene	1.9	U	10	1.9
100-41-4	Ethylbenzene	39		10	1.6
87-68-3	Hexachlorobutadiene	3.6	U	10	3.6
591-78-6	2-Hexanone	17	U	50	17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-N | Lab Sample ID: 280-36712-13

Matrix: Water | Lab File ID: H9112.D

Analysis Method: 8260B | Date Collected: 12/05/2012 13:30

Sample wt/vol: 2(mL) | Date Analyzed: 12/11/2012 13:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	2.5	J	10	1.9
99-87-6	4-Isopropyltoluene	2.0	U	10	2.0
75-09-2	Methylene Chloride	21		20	3.2
108-10-1	4-Methyl-2-pentanone	9.8	U	50	9.8
1634-04-4	Methyl tert-butyl ether	2.5	U	50	2.5
179601-23-1	m-Xylene & p-Xylene	210		20	3.4
91-20-3	Naphthalene	7.6	J B	10	2.2
104-51-8	n-Butylbenzene	3.2	U	10	3.2
103-65-1	n-Propylbenzene	6.0	J	10	1.6
95-47-6	o-Xylene	71		10	1.9
135-98-8	sec-Butylbenzene	1.7	U	10	1.7
100-42-5	Styrene	1.7	U	10	1.7
98-06-6	tert-Butylbenzene	1.6	U	10	1.6
630-20-6	1,1,1,2-Tetrachloroethane	2.1	U	10	2.1
79-34-5	1,1,2,2-Tetrachloroethane	2.1	U	10	2.1
127-18-4	Tetrachloroethene	2.0	U	10	2.0
108-88-3	Toluene	71		10	1.7
156-60-5	trans-1,2-Dichloroethene	1.5	U	10	1.5
10061-02-6	trans-1,3-Dichloropropene	1.9	U	30	1.9
87-61-6	1,2,3-Trichlorobenzene	2.1	U	10	2.1
120-82-1	1,2,4-Trichlorobenzene	2.1	U	10	2.1
71-55-6	1,1,1-Trichloroethane	1.6	U	10	1.6
79-00-5	1,1,2-Trichloroethane	2.7	U	10	2.7
79-01-6	Trichloroethene	1.6	U	10	1.6
75-69-4	Trichlorofluoromethane	2.9	U	20	2.9
96-18-4	1,2,3-Trichloropropane	3.3	U	25	3.3
95-63-6	1,2,4-Trimethylbenzene	48		10	1.5
108-67-8	1,3,5-Trimethylbenzene	22		10	1.6
75-01-4	Vinyl chloride	1.0	U	10	1.0
1330-20-7	Xylenes, Total	280		20	1.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: INJ-N Lab Sample ID: 280-36712-13

Matrix: Water Lab File ID: H9112.D

Analysis Method: 8260B Date Collected: 12/05/2012 13:30

Sample wt/vol: 2(mL) Date Analyzed: 12/11/2012 13:42

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		78-120
1868-53-7	Dibromofluoromethane (Surr)	103		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-127
2037-26-5	Toluene-d8 (Surr)	102		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D
Lims ID: 280-36712-D-13 Client ID: INJ-N
Inject. Date: 11-Dec-2012 13:42:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-D-13 2ml
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 22
Lims Batch ID: 151489 Lims Sample ID: 23
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 12-Dec-2012 05:40:28

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.610	7.598	0.012	99	2238320	12.5	
* 2 Chlorobenzene-d5	119	11.945	11.933	0.012	86	477932	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.748	14.736	0.012	95	753951	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.757	6.745	0.012	66	952772	9.26	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.192	7.181	0.011	90	405042	9.02	
$ 7 Toluene-d8 (Surr)	98	9.734	9.722	0.012	94	2139830	9.20	
$ 8 4-Bromofluorobenzene (Surr)	95	13.442	13.431	0.011	85	1079414	8.89	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43	4.233	4.215	0.018	97	1087931	188.4	
52 Methylene Chloride	84	4.703	4.685	0.018	37	167000	2.13	
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43	6.183	6.164	0.019	92	1664655	123.4	
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78	7.262	7.244	0.018	97	1426909	6.82	
78 1,2-Dichloroethane	62	7.297	7.279	0.018	77	181135	3.59	
81 Trichloroethene	95		8.080					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91	9.839	9.820	0.019	97	1726239	7.09	
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					19
105 Ethylbenzene	106	12.137	12.119	0.018	99	347649	3.95	
107 m-Xylene & p-Xylene	106	12.276	12.275	0.001	0	2392361	20.5	
109 o-Xylene	106	12.798	12.780	0.018	98	755991	7.13	
108 Styrene	104		12.797					
110 Bromoform	173		13.059					19
111 Isopropylbenzene	105	13.251	13.233	0.018	82	74143	0.2505	
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120	13.738	13.720	0.018	92	42820	0.6001	
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105	13.930	13.929	0.001	80	487509	2.20	M
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					3
123 1,2,4-Trimethylbenzene	105	14.365	14.347	0.018	98	1015488	4.80	
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119	14.644	14.678	-0.034	28	45084	0.1782	
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128	16.942	16.924	0.018	86	68341	0.7556	
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		27.6	

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

Review Flags
M - Manually Integrated

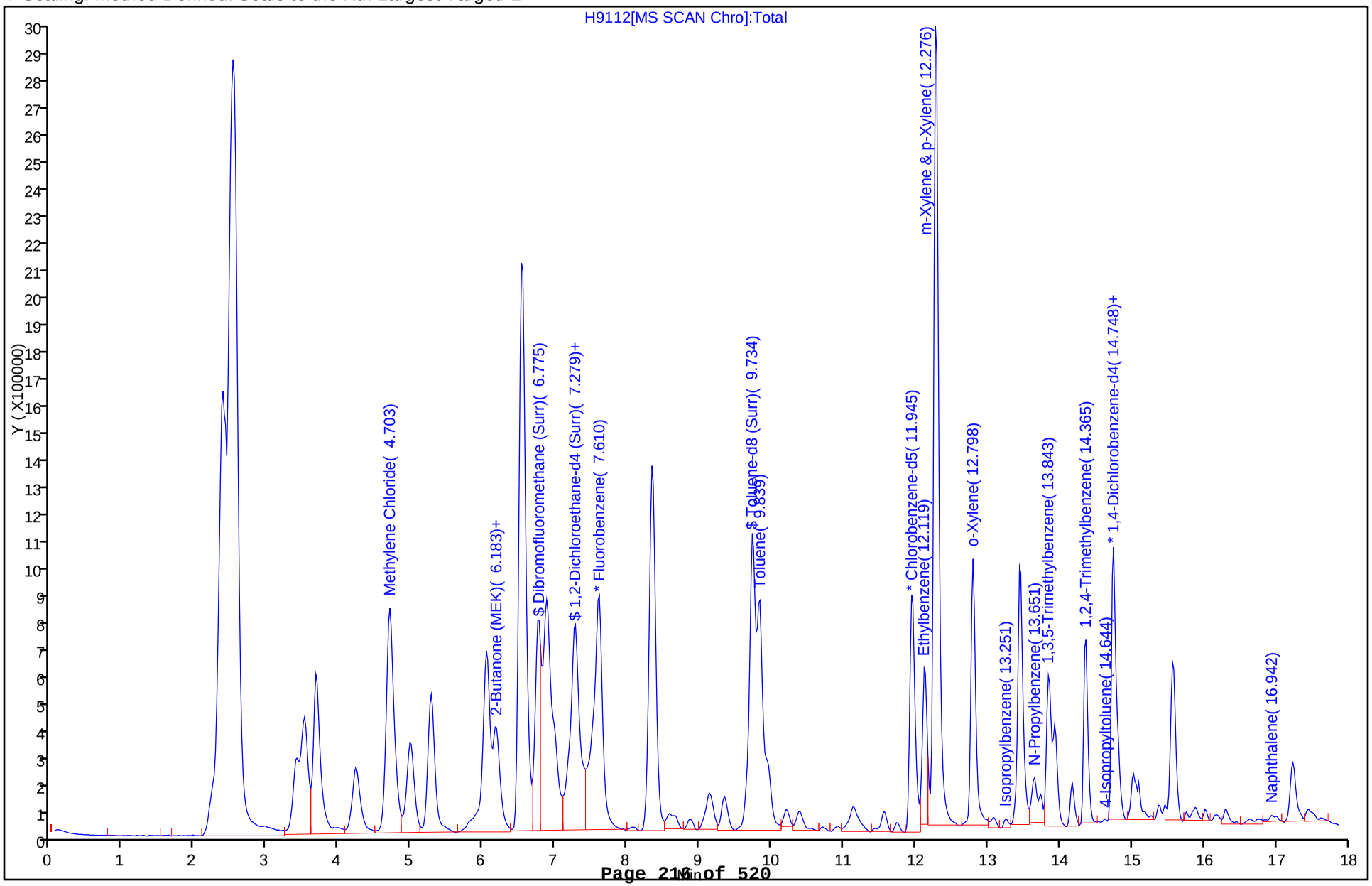
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



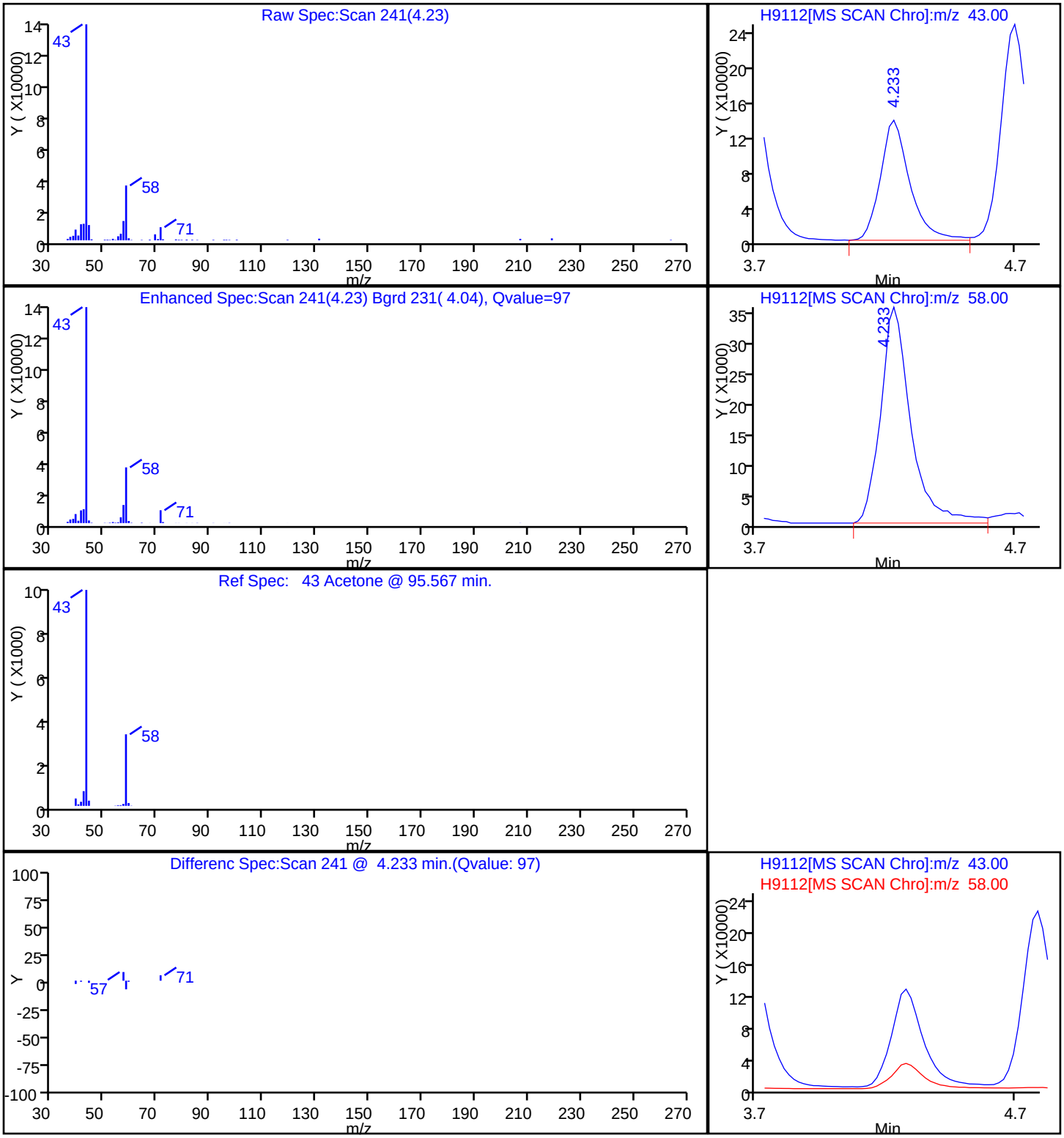
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

43 Acetone



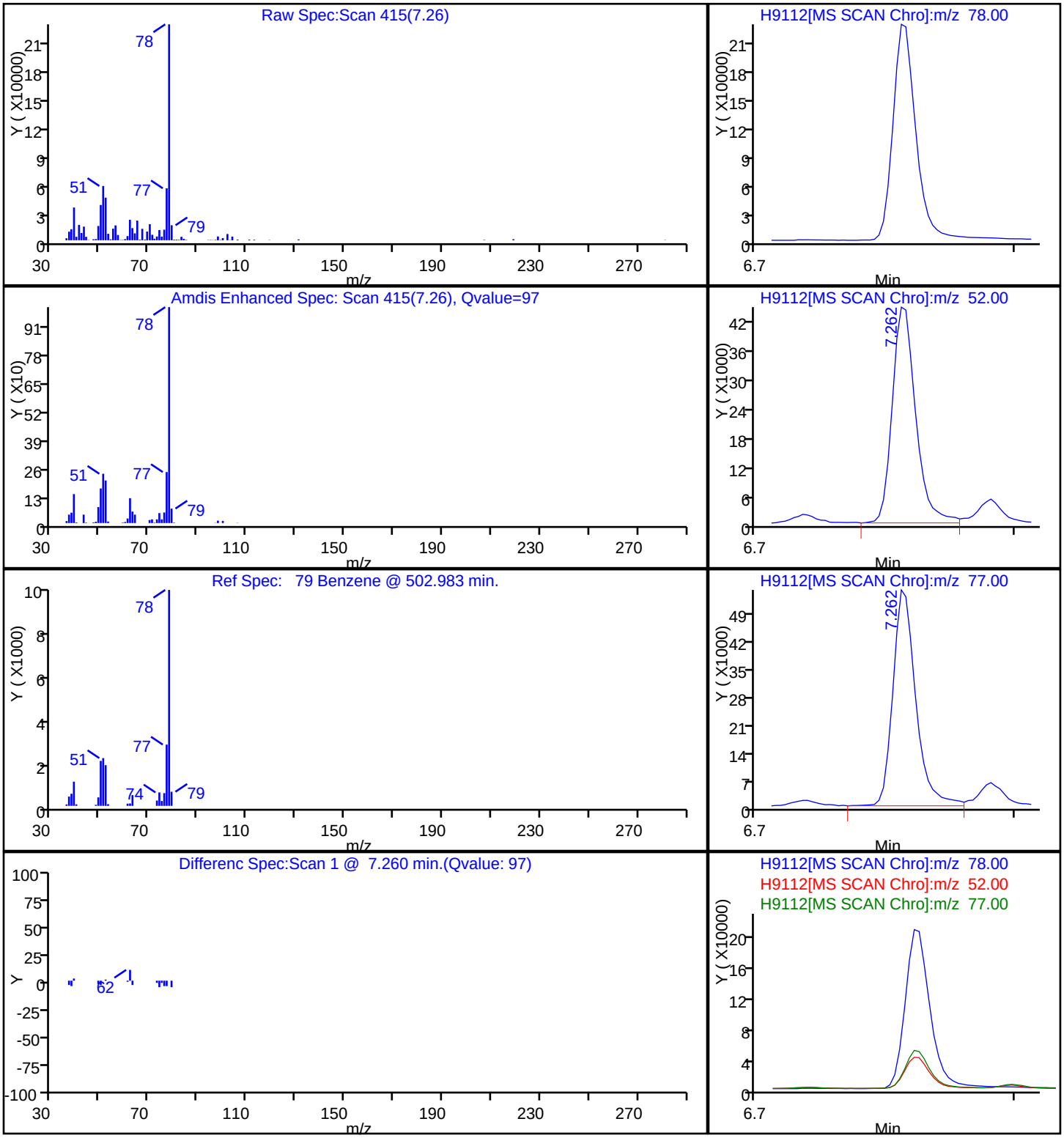
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

79 Benzene



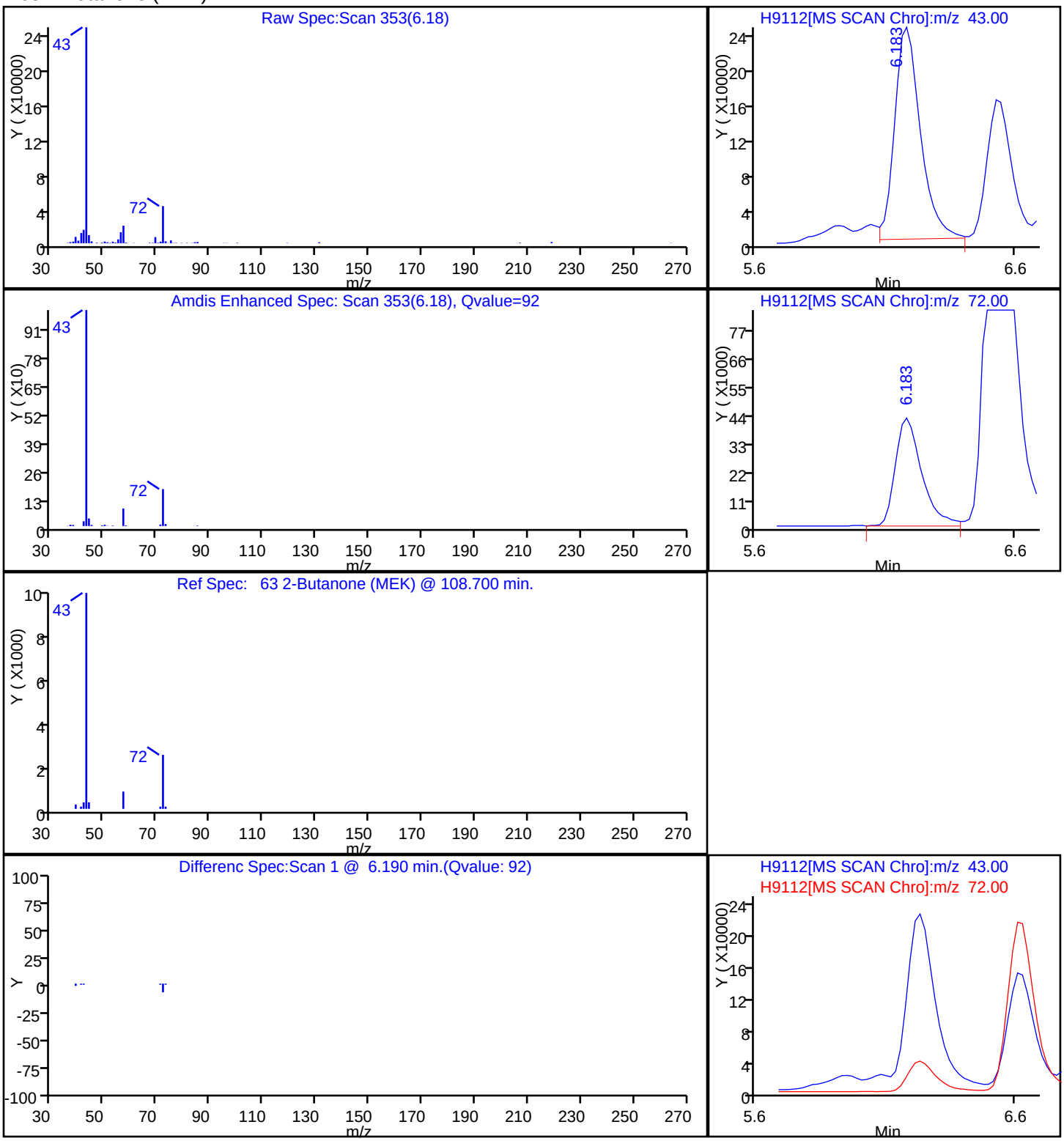
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

63 2-Butanone (MEK)



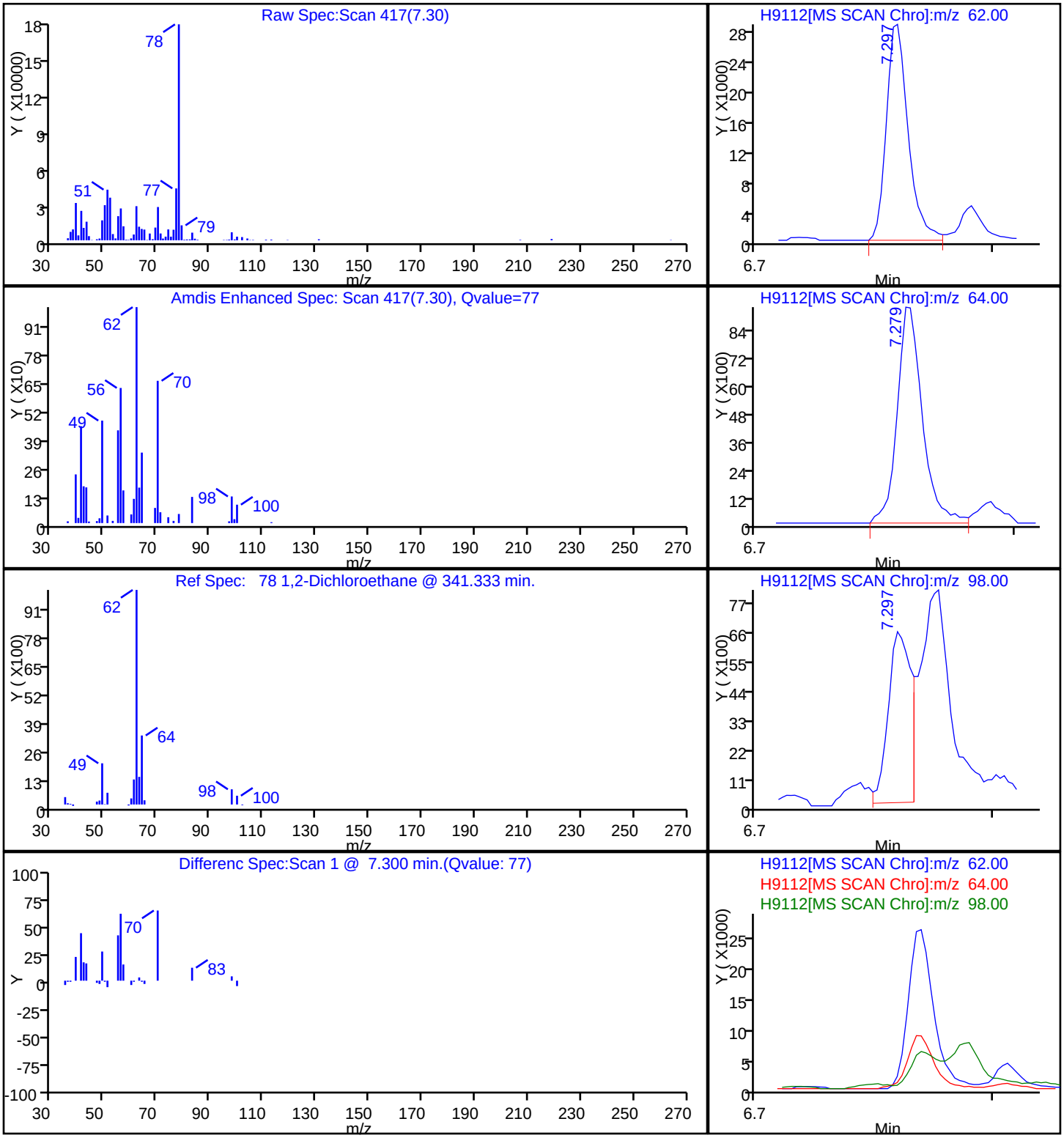
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

78 1,2-Dichloroethane



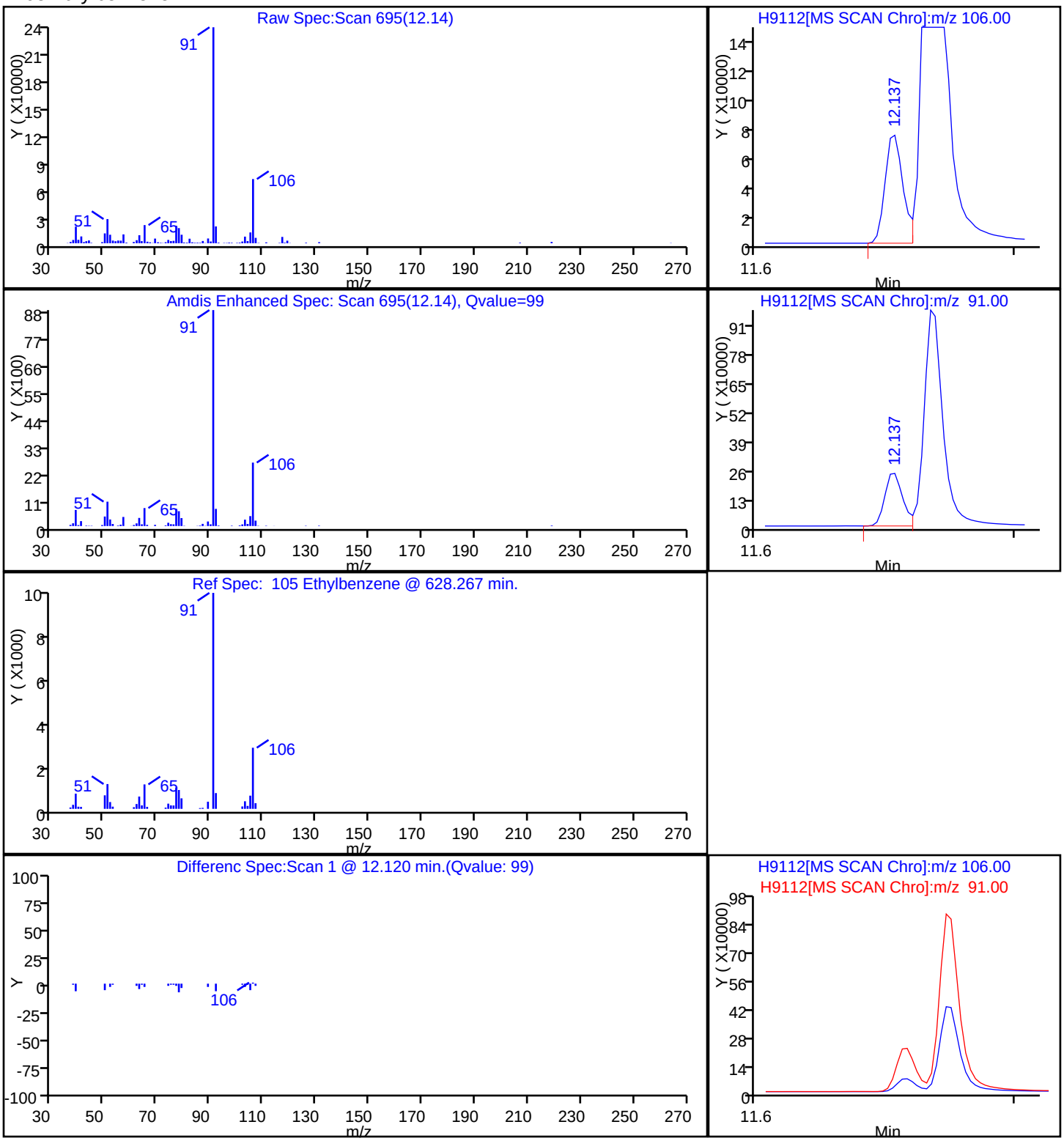
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TestAmerica Denver

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Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

105 Ethylbenzene



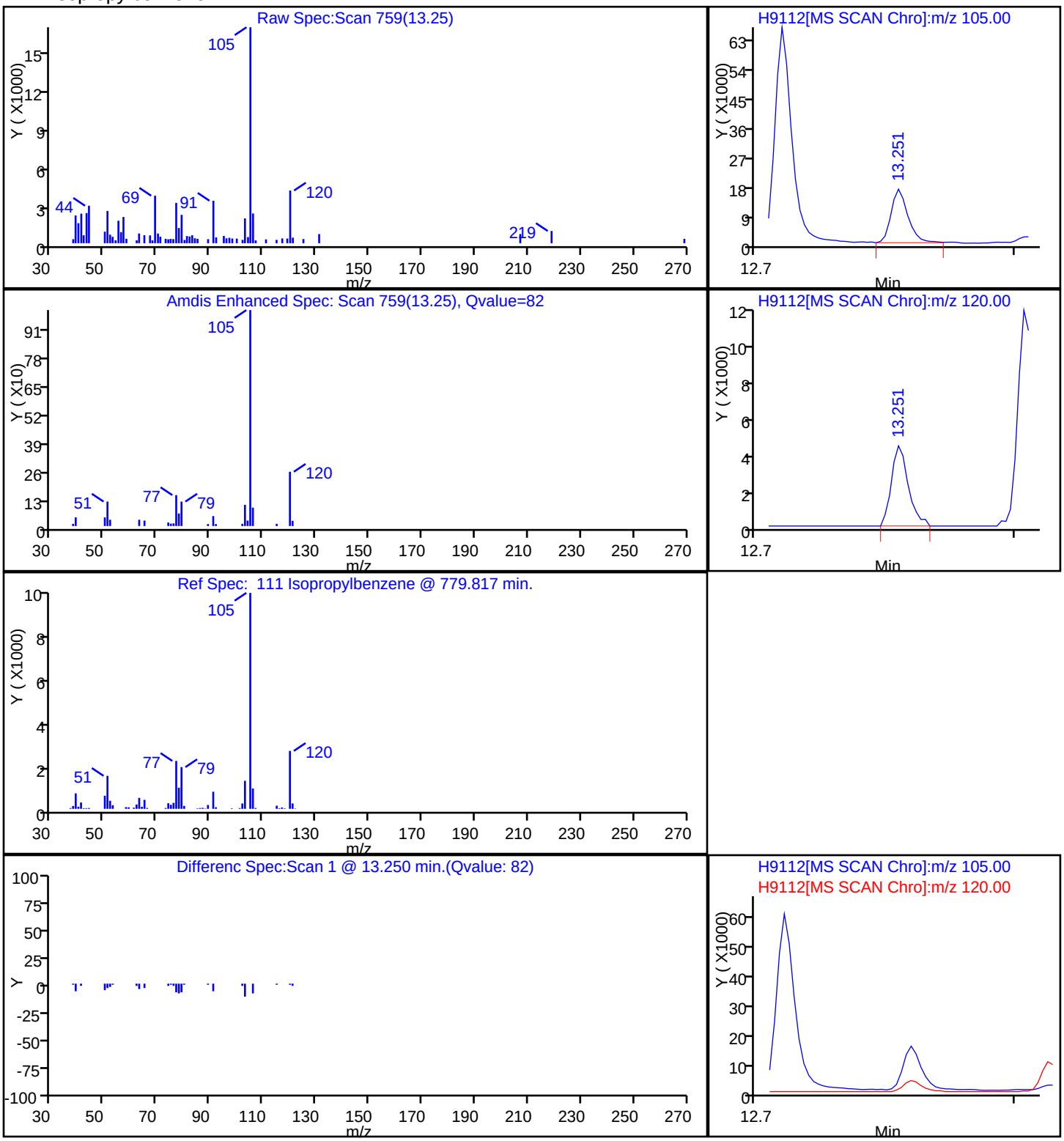
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

111 Isopropylbenzene



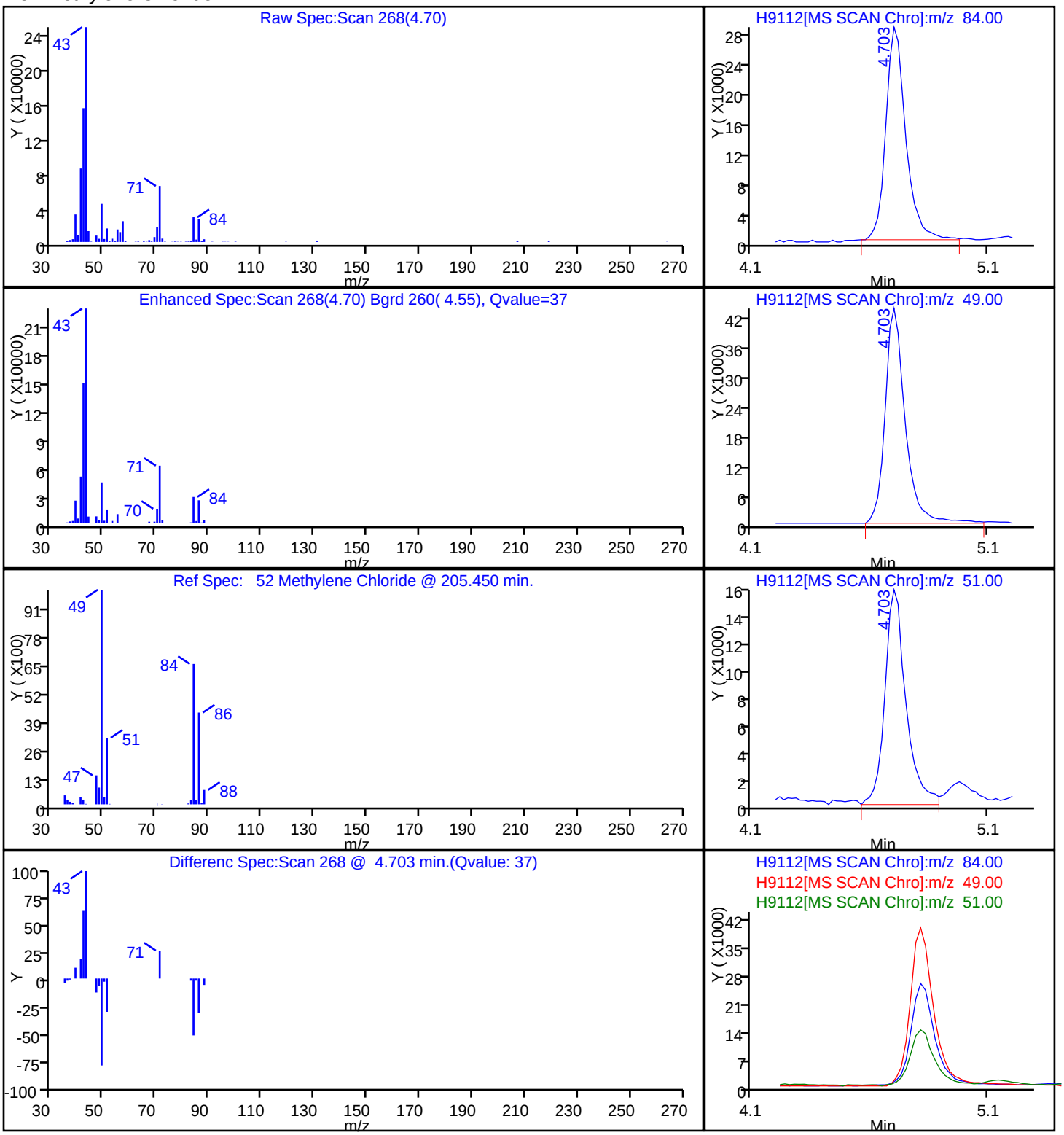
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

52 Methylene Chloride



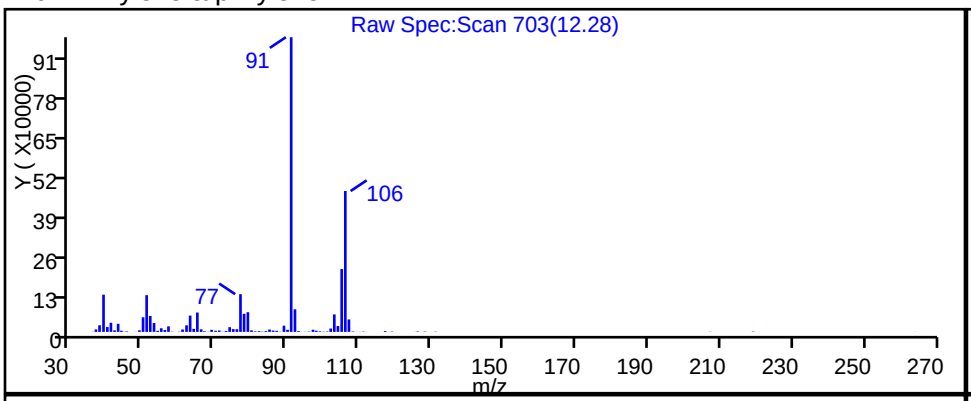
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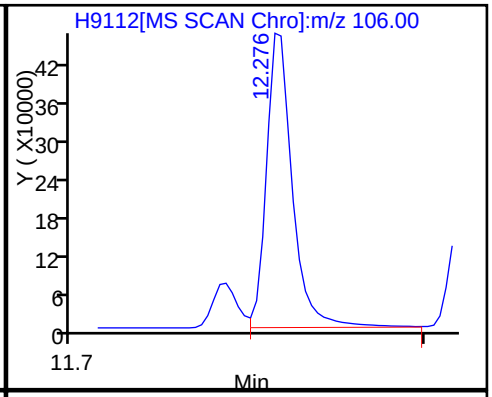
TestAmerica Denver

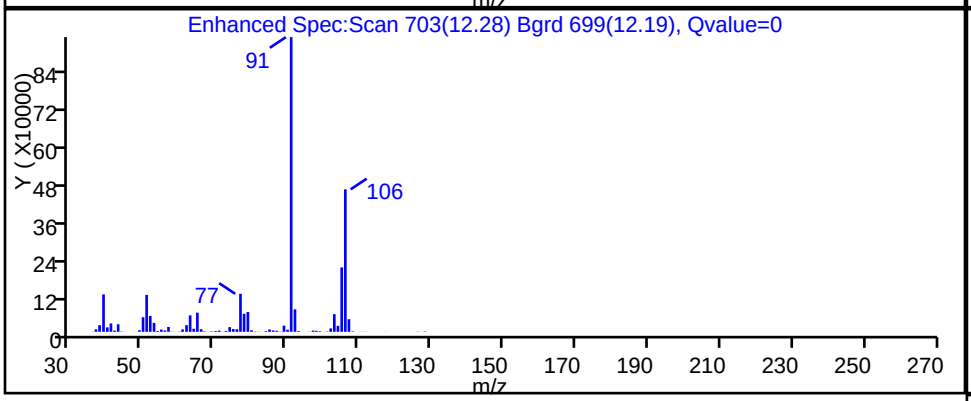
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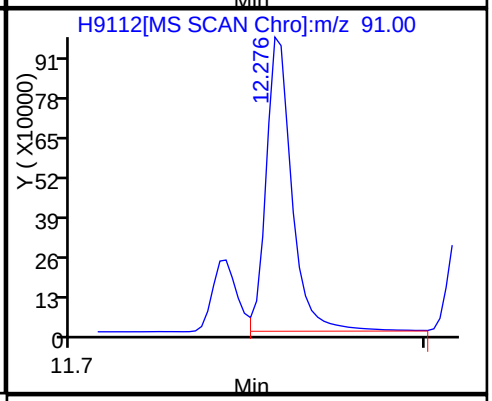
Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

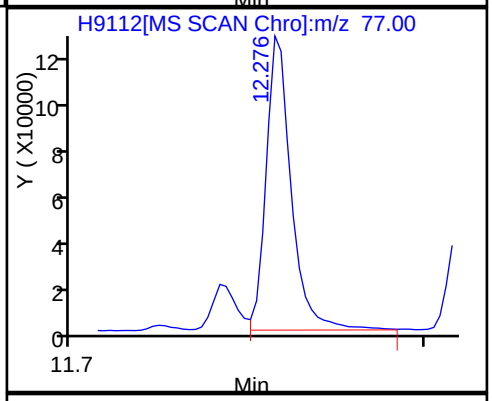
107 m-Xylene & p-Xylene

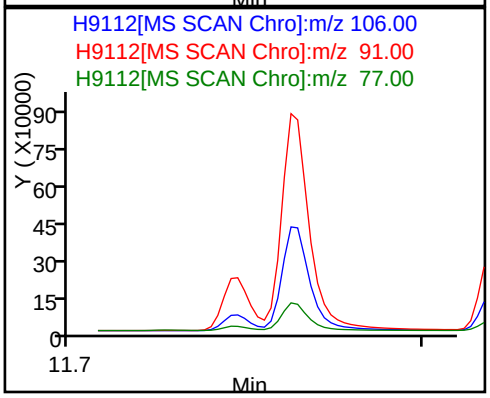












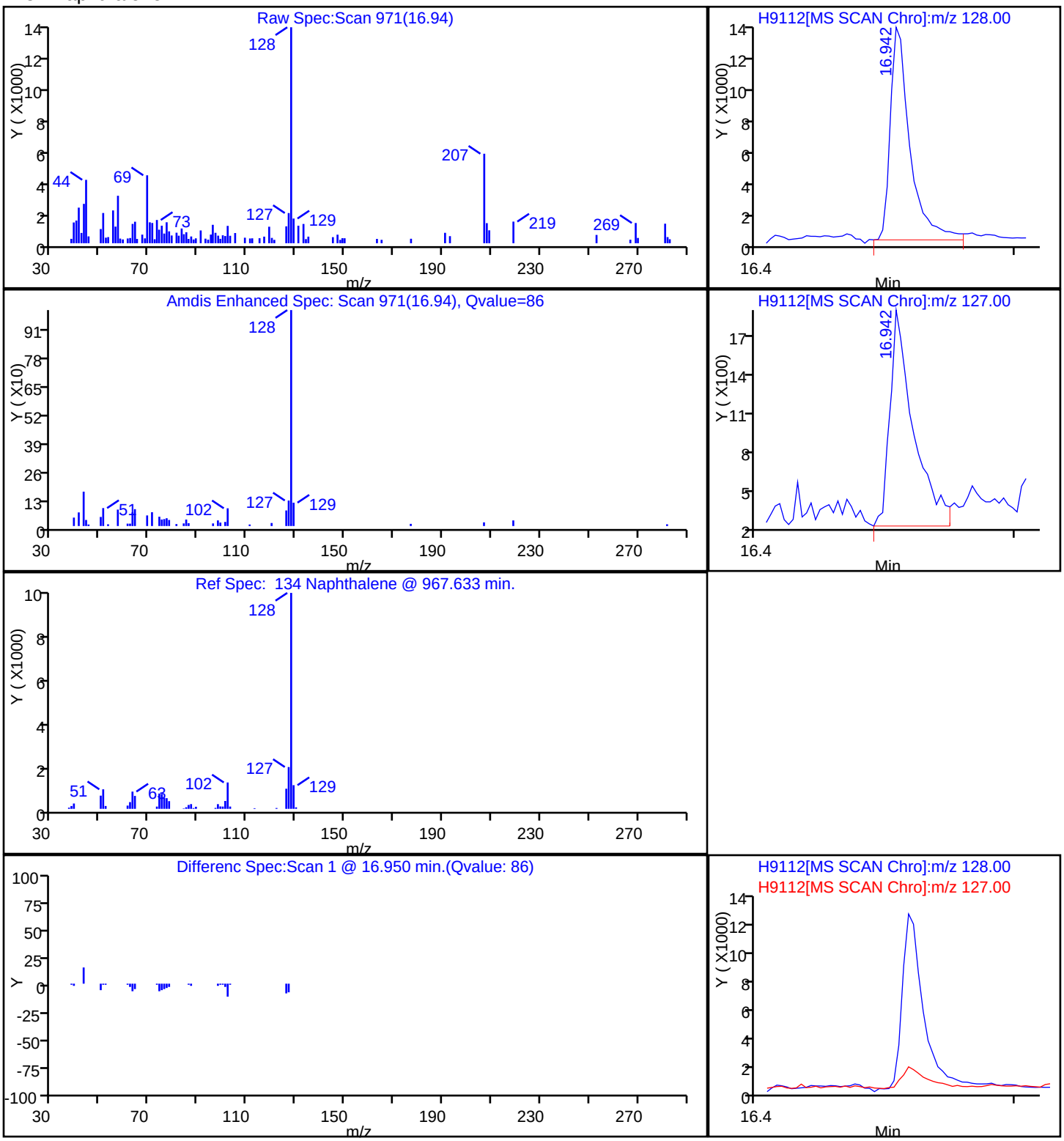
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

134 Naphthalene



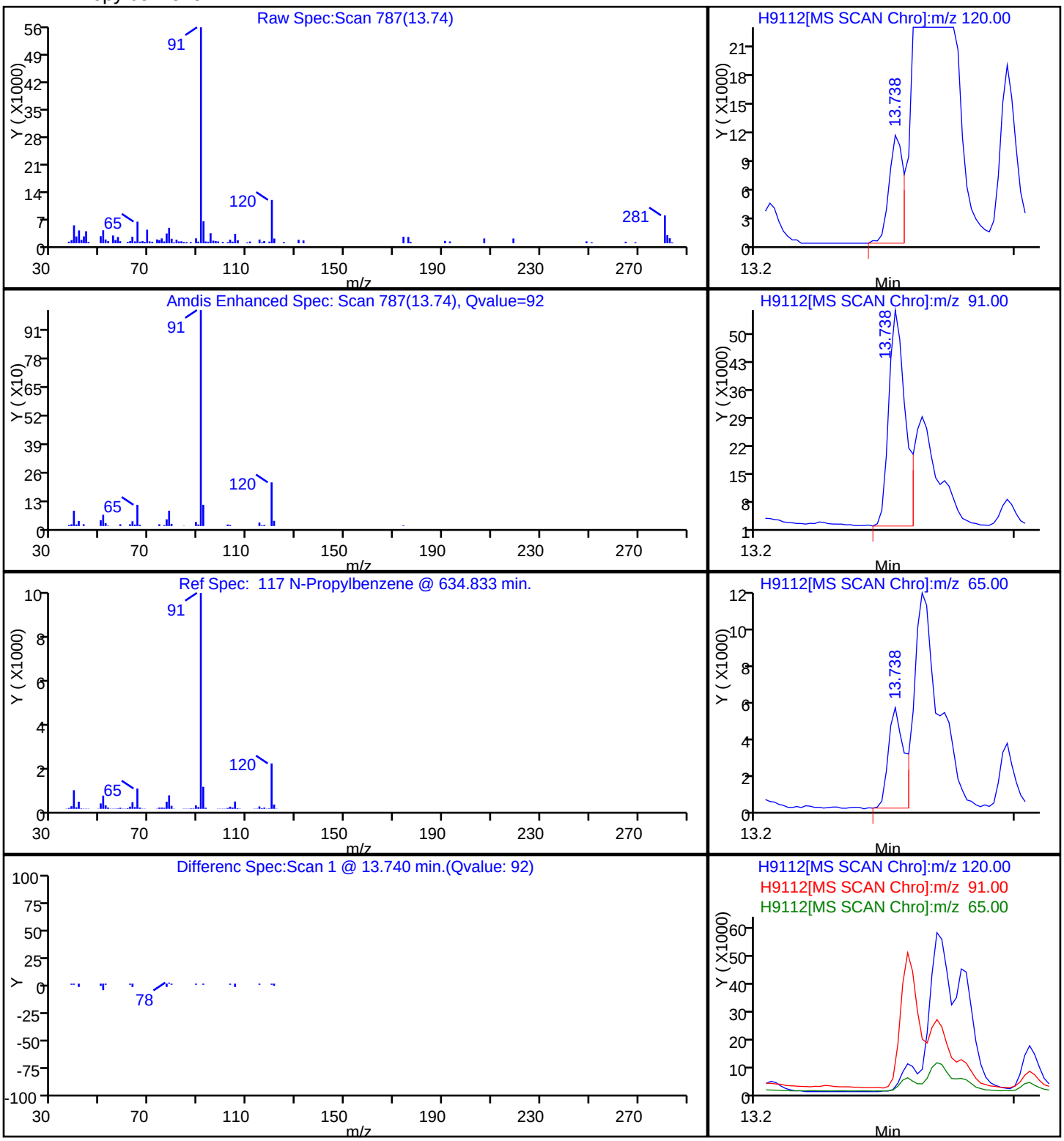
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

117 N-Propylbenzene



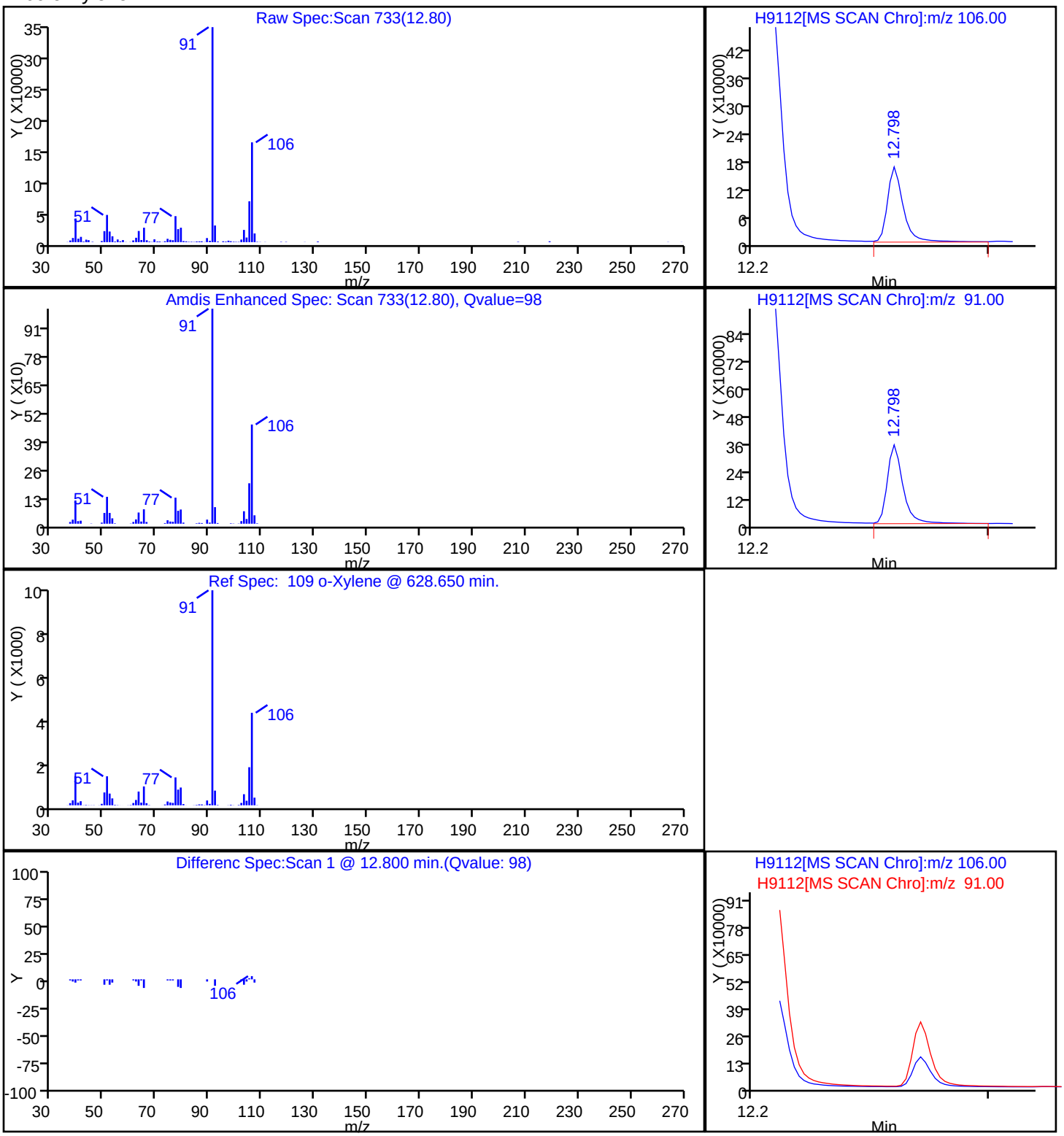
Report Date: 12-Dec-2012 05:43:53 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

109 o-Xylene



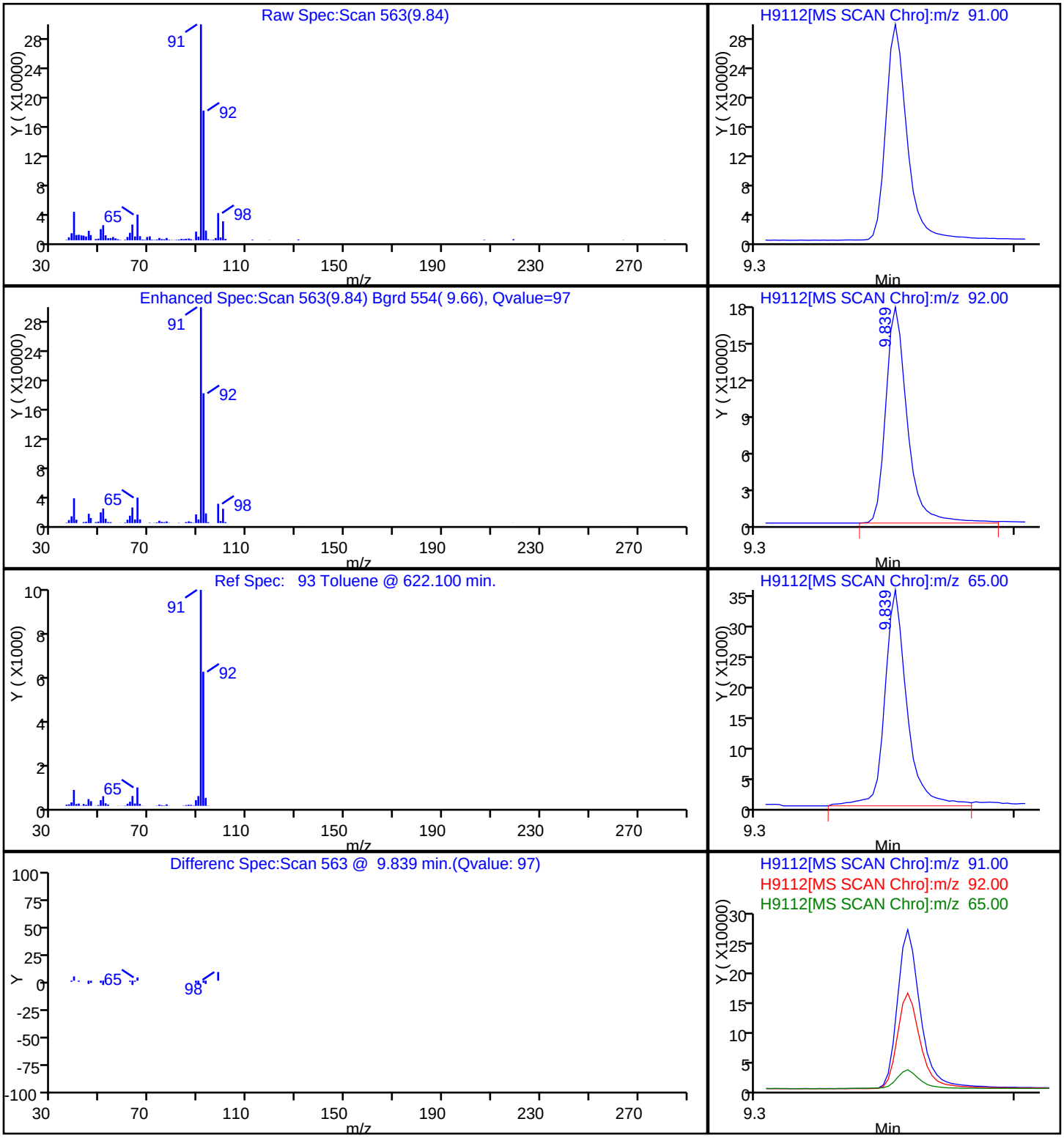
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

93 Toluene



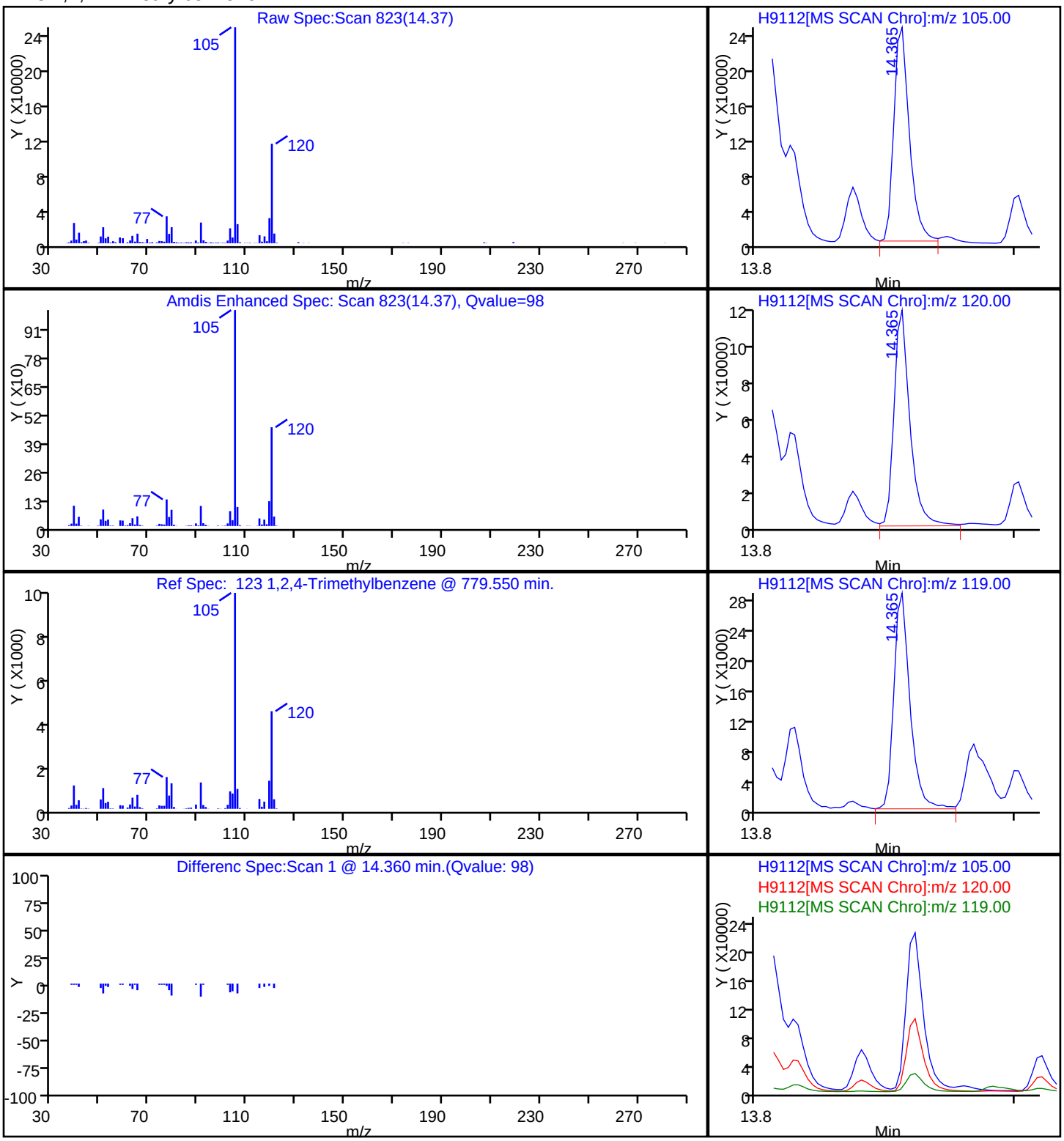
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

123 1,2,4-Trimethylbenzene



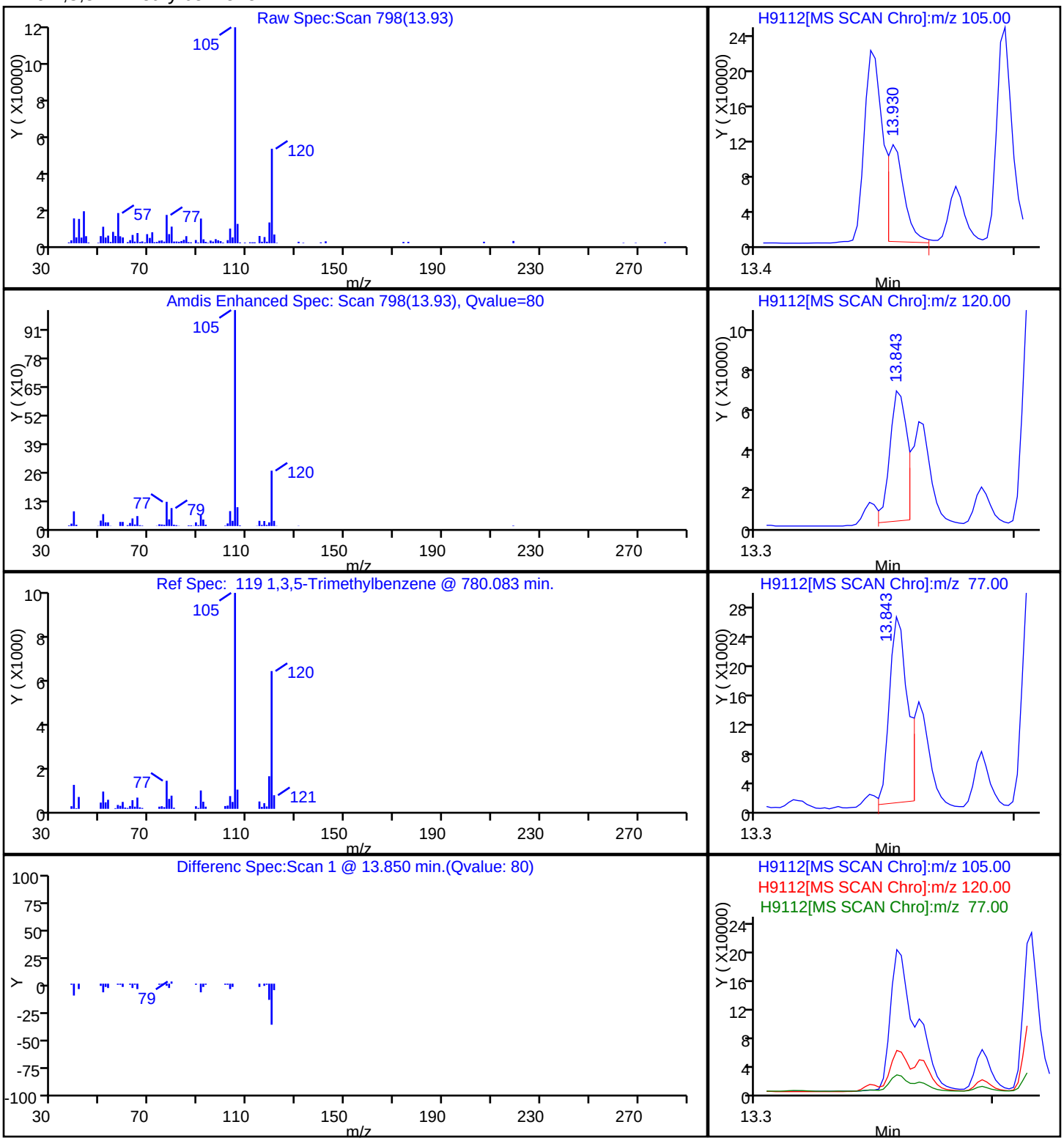
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D

Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

119 1,3,5-Trimethylbenzene



Manual Integration/User Assign Peak Report

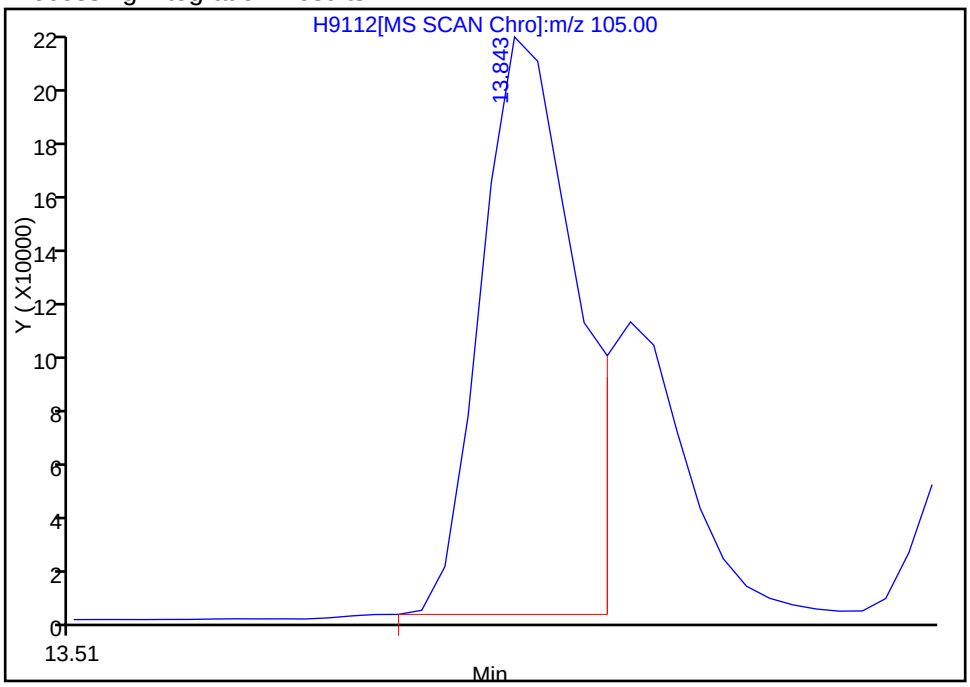
TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20121211-7200.b\H9112.D		
Injection Date:	11-Dec-2012 13:42:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	INJ-N	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	23
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

119 1,3,5-Trimethylbenzene, Signal: 1, m/z: 105.0 Type: quant, RT: 13.93

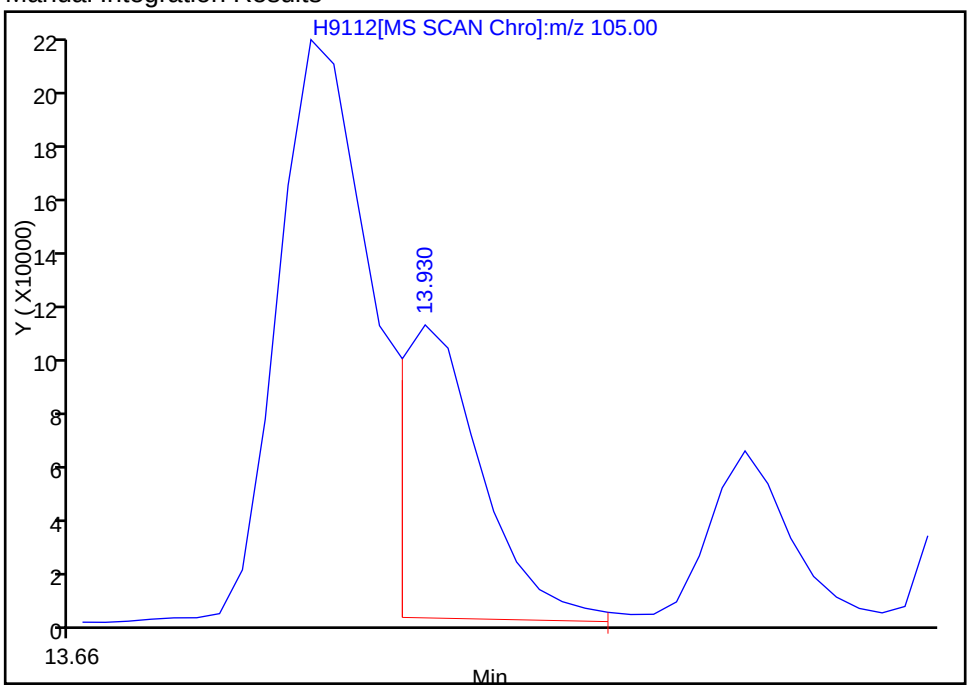
Processing Integration Results

RT: 13.84
Response: 1092005
Amount: 4.936600



Manual Integration Results

RT: 13.93
Response: 487509
Amount: 2.203870



Reviewer: meierg, 12-Dec-2012 05:40:28
Audit Action: Manually Integrated
Audit Reason: Wrong peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: DUP-1 | Lab Sample ID: 280-36712-14

Matrix: Water | Lab File ID: H9114.D

Analysis Method: 8260B | Date Collected: 12/05/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/11/2012 14:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	7.6	U	40	7.6
71-43-2	Benzene	89		4.0	0.64
108-86-1	Bromobenzene	0.68	U	4.0	0.68
75-27-4	Bromodichloromethane	0.68	U	4.0	0.68
75-25-2	Bromoform	0.76	U	4.0	0.76
74-83-9	Bromomethane	0.84	U	8.0	0.84
78-93-3	2-Butanone (MEK)	8.0	U	24	8.0
56-23-5	Carbon tetrachloride	0.76	U	4.0	0.76
108-90-7	Chlorobenzene	0.68	U	4.0	0.68
74-97-5	Bromochloromethane	0.40	U	4.0	0.40
124-48-1	Dibromochloromethane	0.68	U	4.0	0.68
75-00-3	Chloroethane	1.6	U	8.0	1.6
67-66-3	Chloroform	0.64	U	4.0	0.64
74-87-3	Chloromethane	1.2	U	8.0	1.2
95-49-8	2-Chlorotoluene	0.68	U	4.0	0.68
106-43-4	4-Chlorotoluene	0.84	U	4.0	0.84
156-59-2	cis-1,2-Dichloroethene	0.60	U	4.0	0.60
10061-01-5	cis-1,3-Dichloropropene	0.64	U	4.0	0.64
96-12-8	1,2-Dibromo-3-Chloropropane	1.9	U	20	1.9
106-93-4	1,2-Dibromoethane (EDB)	0.72	U	4.0	0.72
74-95-3	Dibromomethane	0.68	U	4.0	0.68
95-50-1	1,2-Dichlorobenzene	0.60	U	4.0	0.60
541-73-1	1,3-Dichlorobenzene	0.52	U	4.0	0.52
106-46-7	1,4-Dichlorobenzene	0.64	U	4.0	0.64
75-71-8	Dichlorodifluoromethane	1.2	U	8.0	1.2
75-34-3	1,1-Dichloroethane	0.88	U	4.0	0.88
107-06-2	1,2-Dichloroethane	0.52	U	4.0	0.52
75-35-4	1,1-Dichloroethene	0.92	U	4.0	0.92
540-59-0	1,2-Dichloroethene, Total	0.96	U	4.0	0.96
78-87-5	1,2-Dichloropropane	0.72	U	4.0	0.72
142-28-9	1,3-Dichloropropane	0.88	U	4.0	0.88
594-20-7	2,2-Dichloropropane	0.72	U	4.0	0.72
563-58-6	1,1-Dichloropropene	0.76	U	4.0	0.76
100-41-4	Ethylbenzene	5.4		4.0	0.64
87-68-3	Hexachlorobutadiene	1.4	U	4.0	1.4
591-78-6	2-Hexanone	6.8	U	20	6.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: DUP-1 | Lab Sample ID: 280-36712-14

Matrix: Water | Lab File ID: H9114.D

Analysis Method: 8260B | Date Collected: 12/05/2012 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/11/2012 14:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.76	U	4.0	0.76
99-87-6	4-Isopropyltoluene	1.2	J	4.0	0.80
75-09-2	Methylene Chloride	5.0	J	8.0	1.3
108-10-1	4-Methyl-2-pentanone	3.9	U	20	3.9
1634-04-4	Methyl tert-butyl ether	1.0	U	20	1.0
179601-23-1	m-Xylene & p-Xylene	11		8.0	1.4
91-20-3	Naphthalene	0.88	U	4.0	0.88
104-51-8	n-Butylbenzene	1.5	J	4.0	1.3
103-65-1	n-Propylbenzene	0.64	U	4.0	0.64
95-47-6	o-Xylene	0.98	J	4.0	0.76
135-98-8	sec-Butylbenzene	0.68	U	4.0	0.68
100-42-5	Styrene	0.68	U	4.0	0.68
98-06-6	tert-Butylbenzene	0.64	U	4.0	0.64
630-20-6	1,1,1,2-Tetrachloroethane	0.84	U	4.0	0.84
79-34-5	1,1,2,2-Tetrachloroethane	0.84	U	4.0	0.84
127-18-4	Tetrachloroethene	0.80	U	4.0	0.80
108-88-3	Toluene	2.8	J	4.0	0.68
156-60-5	trans-1,2-Dichloroethene	0.60	U	4.0	0.60
10061-02-6	trans-1,3-Dichloropropene	0.76	U	12	0.76
87-61-6	1,2,3-Trichlorobenzene	0.84	U	4.0	0.84
120-82-1	1,2,4-Trichlorobenzene	0.84	U	4.0	0.84
71-55-6	1,1,1-Trichloroethane	0.64	U	4.0	0.64
79-00-5	1,1,2-Trichloroethane	1.1	U	4.0	1.1
79-01-6	Trichloroethene	0.64	U	4.0	0.64
75-69-4	Trichlorofluoromethane	1.2	U	8.0	1.2
96-18-4	1,2,3-Trichloropropane	1.3	U	10	1.3
95-63-6	1,2,4-Trimethylbenzene	1.1	J	4.0	0.60
108-67-8	1,3,5-Trimethylbenzene	4.5		4.0	0.64
75-01-4	Vinyl chloride	0.40	U	4.0	0.40
1330-20-7	Xylenes, Total	12		8.0	0.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: DUP-1 Lab Sample ID: 280-36712-14

Matrix: Water Lab File ID: H9114.D

Analysis Method: 8260B Date Collected: 12/05/2012 00:00

Sample wt/vol: 5(mL) Date Analyzed: 12/11/2012 14:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
1868-53-7	Dibromofluoromethane (Surr)	106		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		70-127
2037-26-5	Toluene-d8 (Surr)	108		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D
Lims ID: 280-36712-C-14 Client ID: DUP-1
Inject. Date: 11-Dec-2012 14:26:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-C-14 5ml
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 24
Lims Batch ID: 151489 Lims Sample ID: 25
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 12-Dec-2012 05:41:58

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.613	7.598	0.015	93	2241985	12.5	
* 2 Chlorobenzene-d5	119	11.948	11.933	0.015	80	480896	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.751	14.736	0.015	95	775993	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.760	6.745	0.015	71	980502	9.51	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.195	7.181	0.014	92	464736	10.3	
$ 7 Toluene-d8 (Surr)	98	9.737	9.722	0.015	94	2283808	9.75	
$ 8 4-Bromofluorobenzene (Surr)	95	13.445	13.431	0.014	85	1158160	9.27	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					19
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43		4.215					
52 Methylene Chloride	84	4.706	4.685	0.021	28	123209	1.26	
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					19
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					19
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78	7.265	7.244	0.021	97	4680884	22.3	
78 1,2-Dichloroethane	62		7.279					39
81 Trichloroethene	95		8.080					19

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					3
93 Toluene	91	9.842	9.820	0.022	94	173489	0.7117	
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					
105 Ethylbenzene	106	12.122	12.119	0.003	95	120090	1.36	
107 m-Xylene & p-Xylene	106	12.279	12.275	0.004	0	316743	2.70	
109 o-Xylene	106	12.801	12.780	0.021	75	26168	0.2453	
108 Styrene	104		12.797					
110 Bromoform	173		13.059					19
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105	13.863	13.929	-0.066	86	255352	1.12	
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					
123 1,2,4-Trimethylbenzene	105	14.351	14.347	0.004	78	62308	0.2860	
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					
125 4-Isopropyltoluene	119	14.682	14.678	0.004	73	76084	0.2922	
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91	15.012	15.096	-0.084	50	104116	0.3788	
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		2.94	

QC Flag Legend

Processing Flags
1 - Missing Peaks
3 - Failed RT Window Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

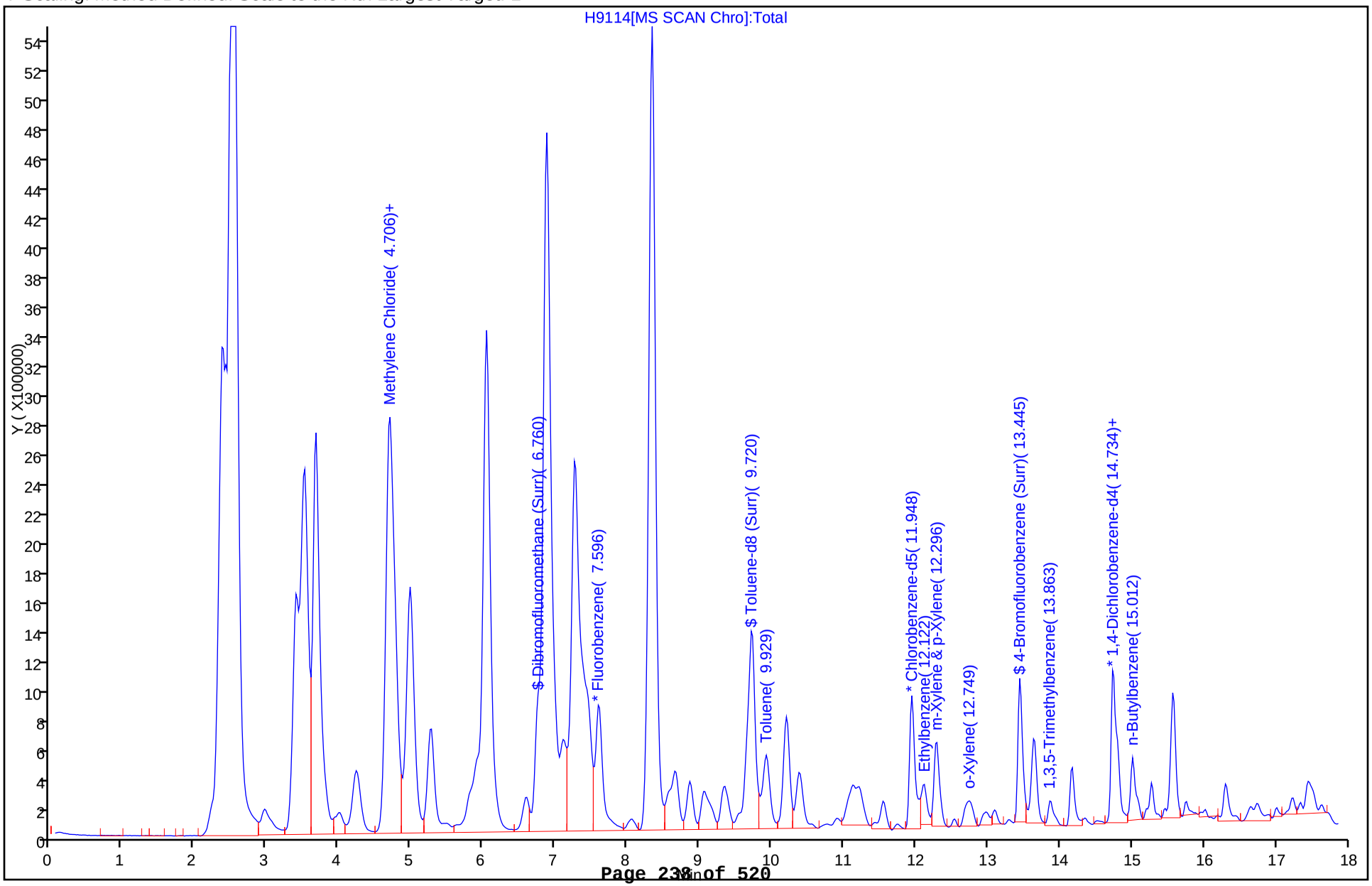
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D

Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



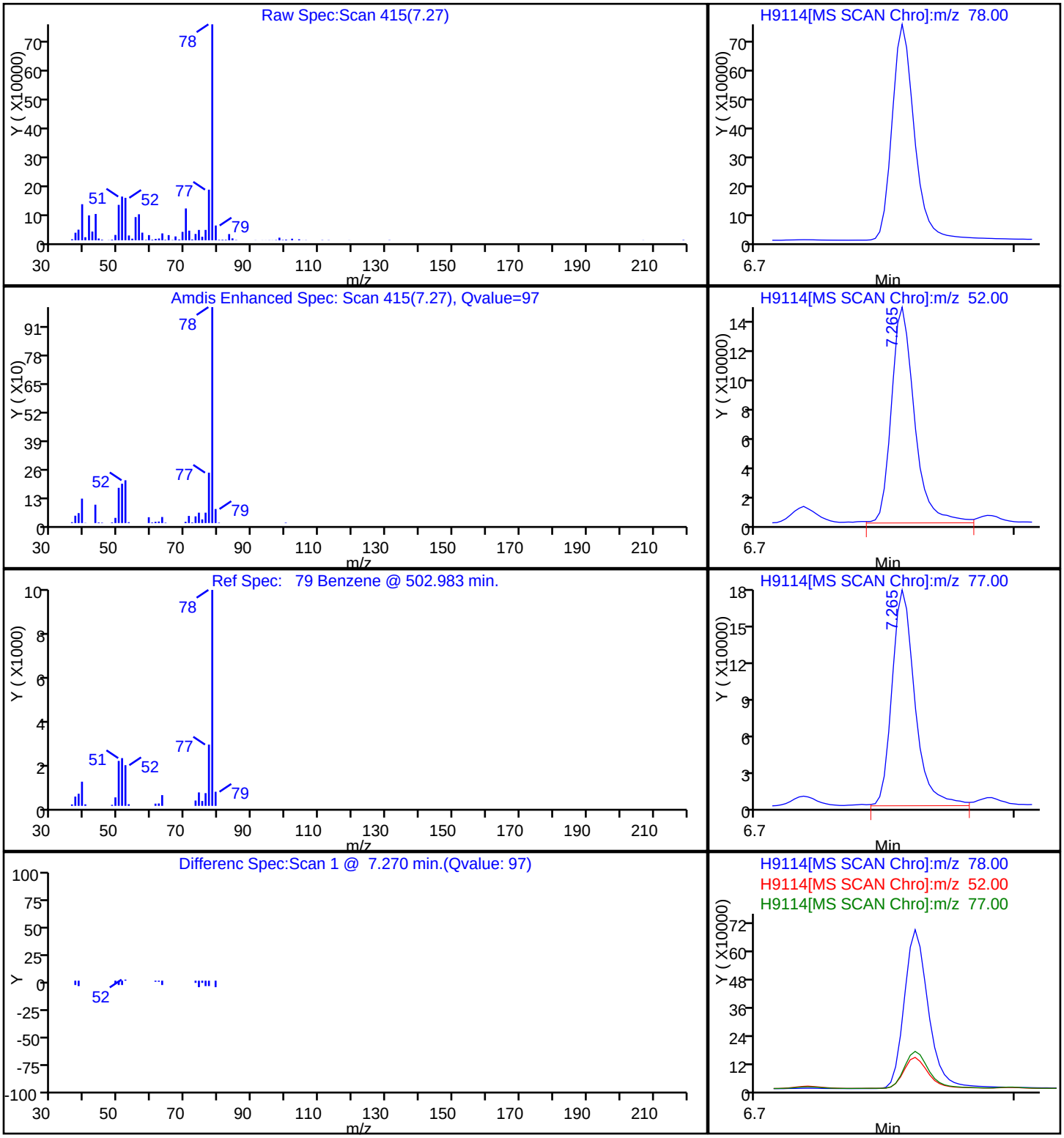
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D

Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

79 Benzene



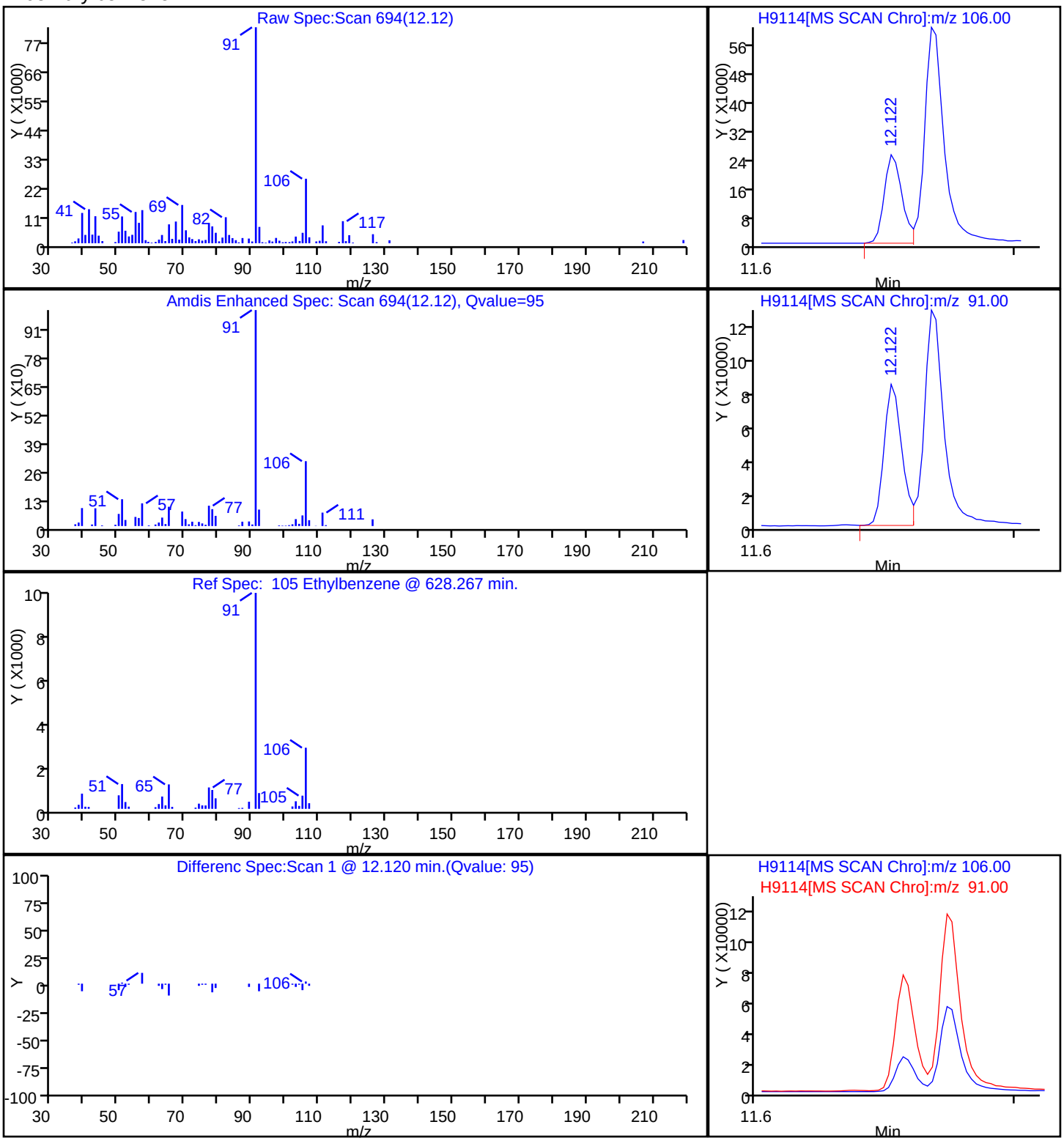
Report Date: 12-Dec-2012 05:43:54 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D

Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

105 Ethylbenzene



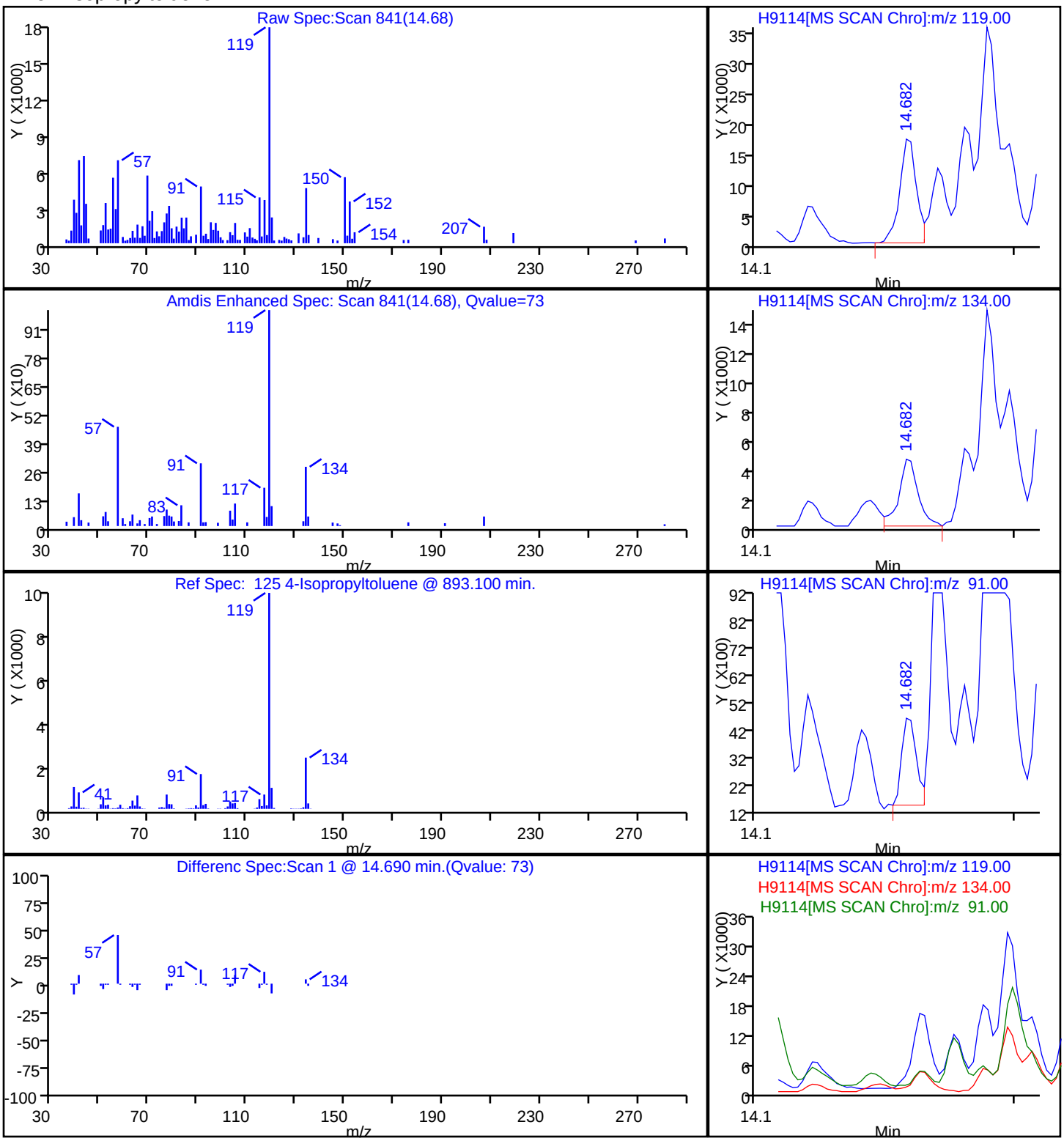
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D

Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

125 4-Isopropyltoluene



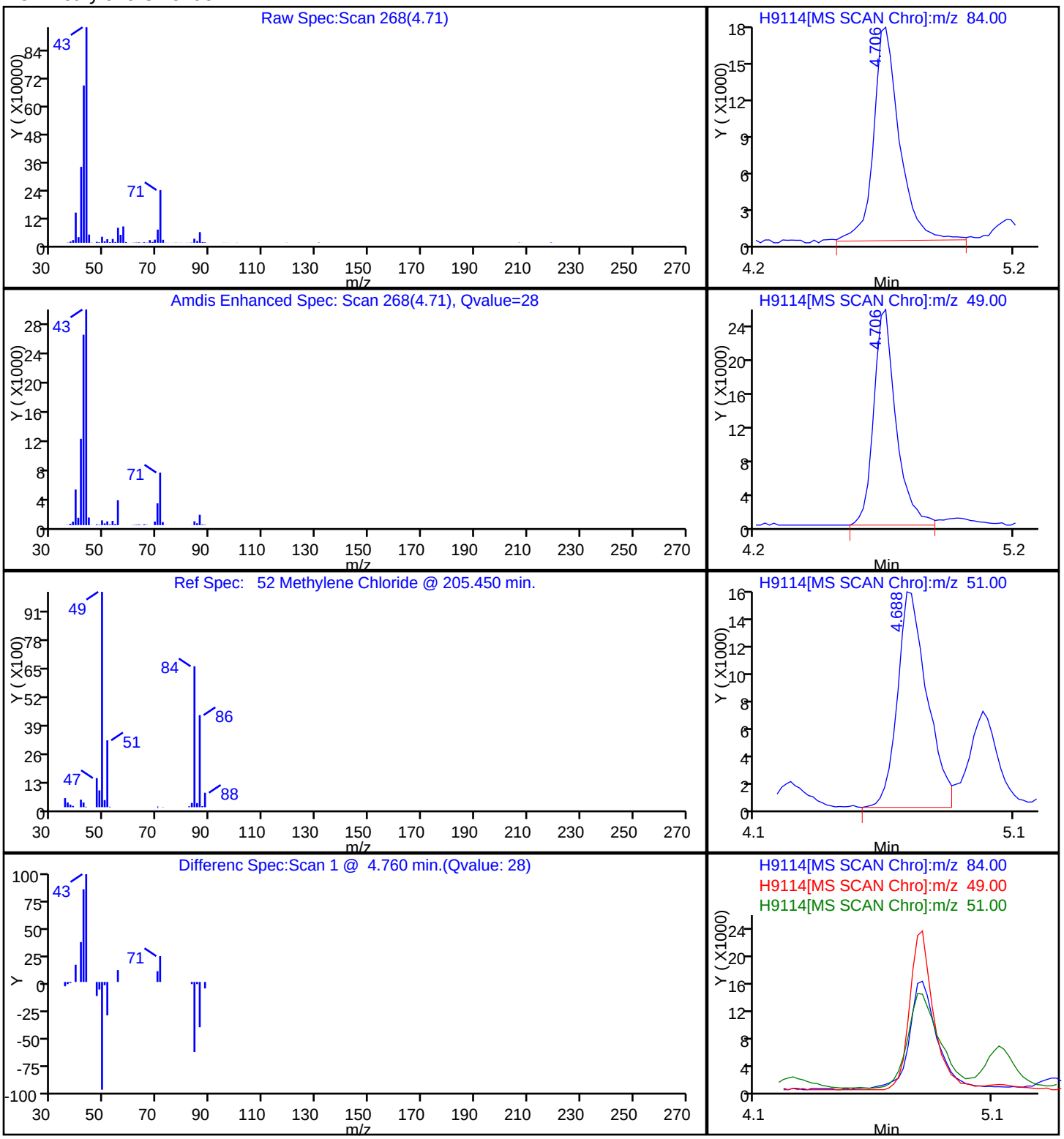
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TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D

Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

52 Methylene Chloride



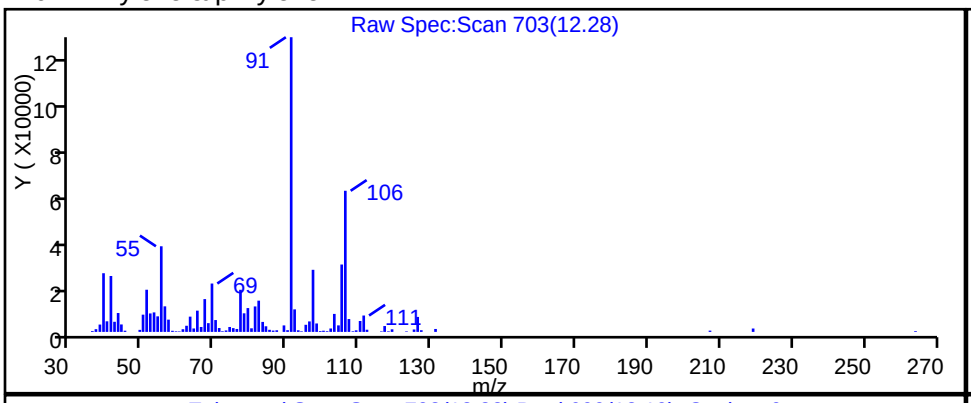
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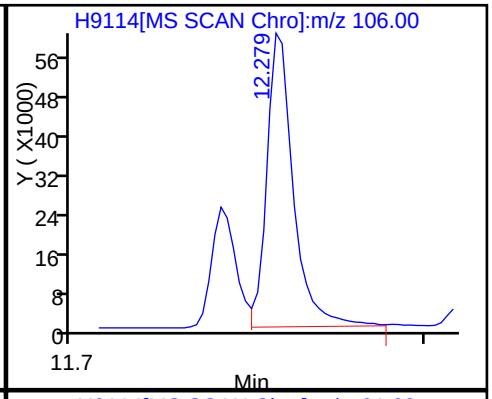
TestAmerica Denver

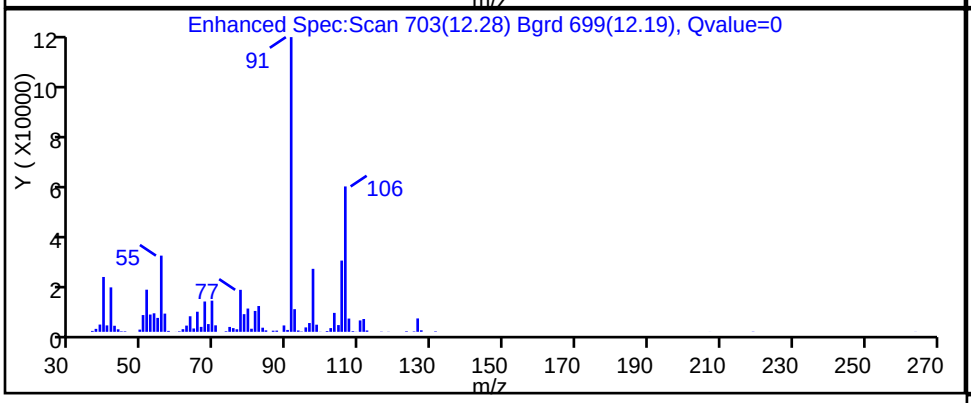
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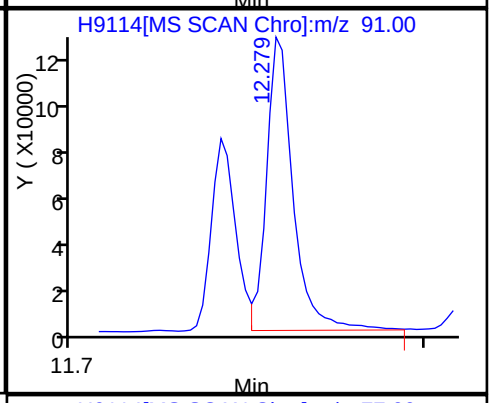
Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

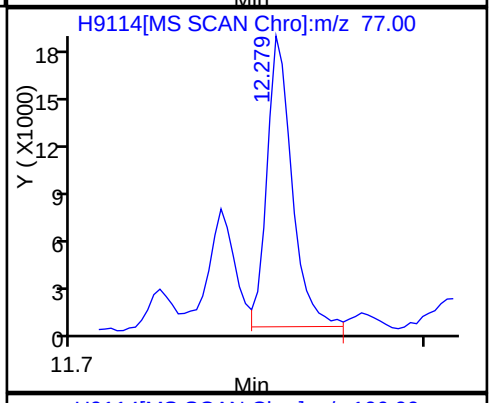
107 m-Xylene & p-Xylene

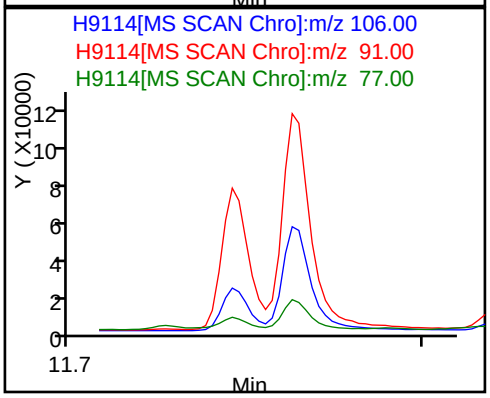












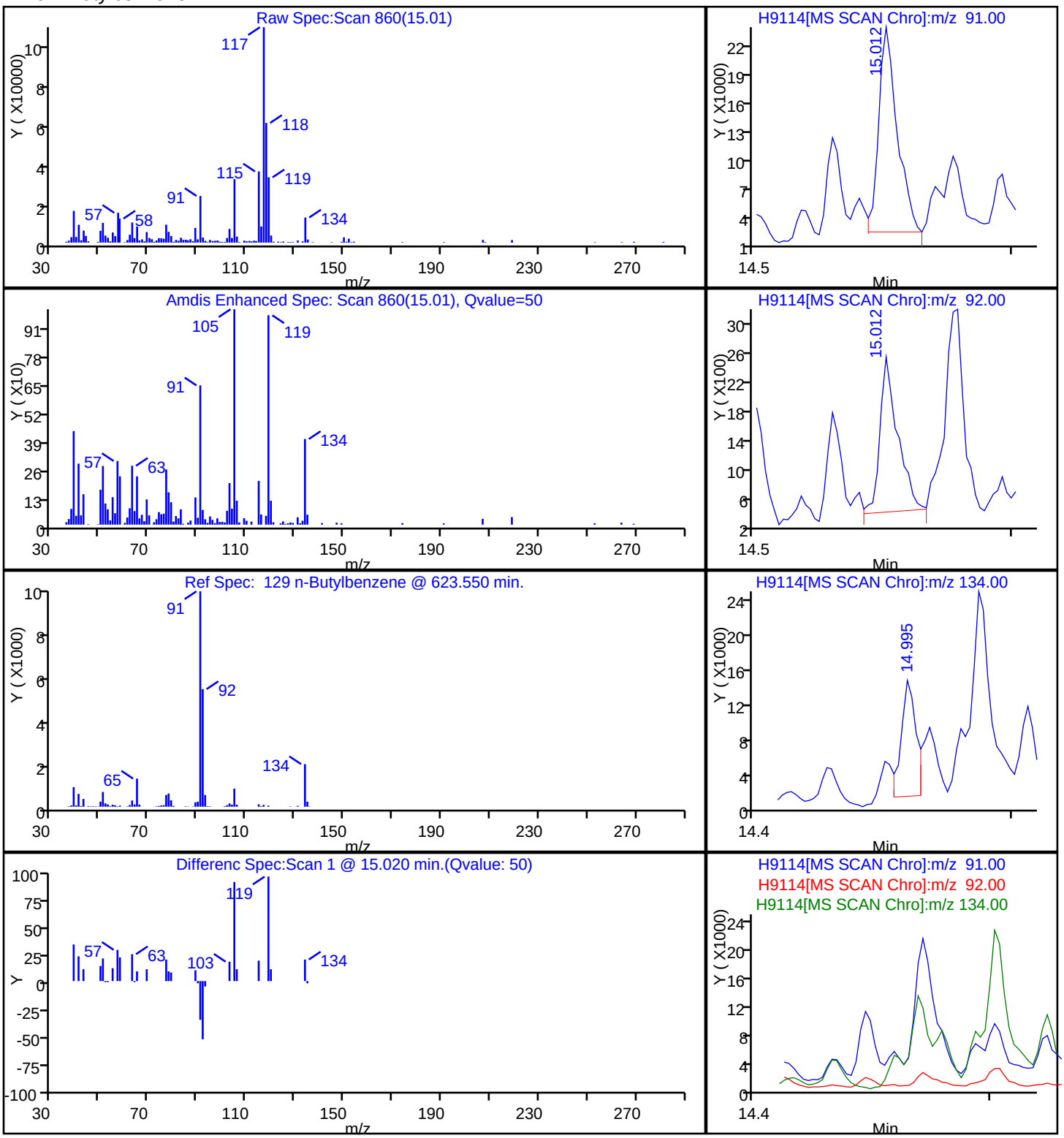
Report Date: 12-Dec-2012 05:43:55 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D

Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

129 n-Butylbenzene



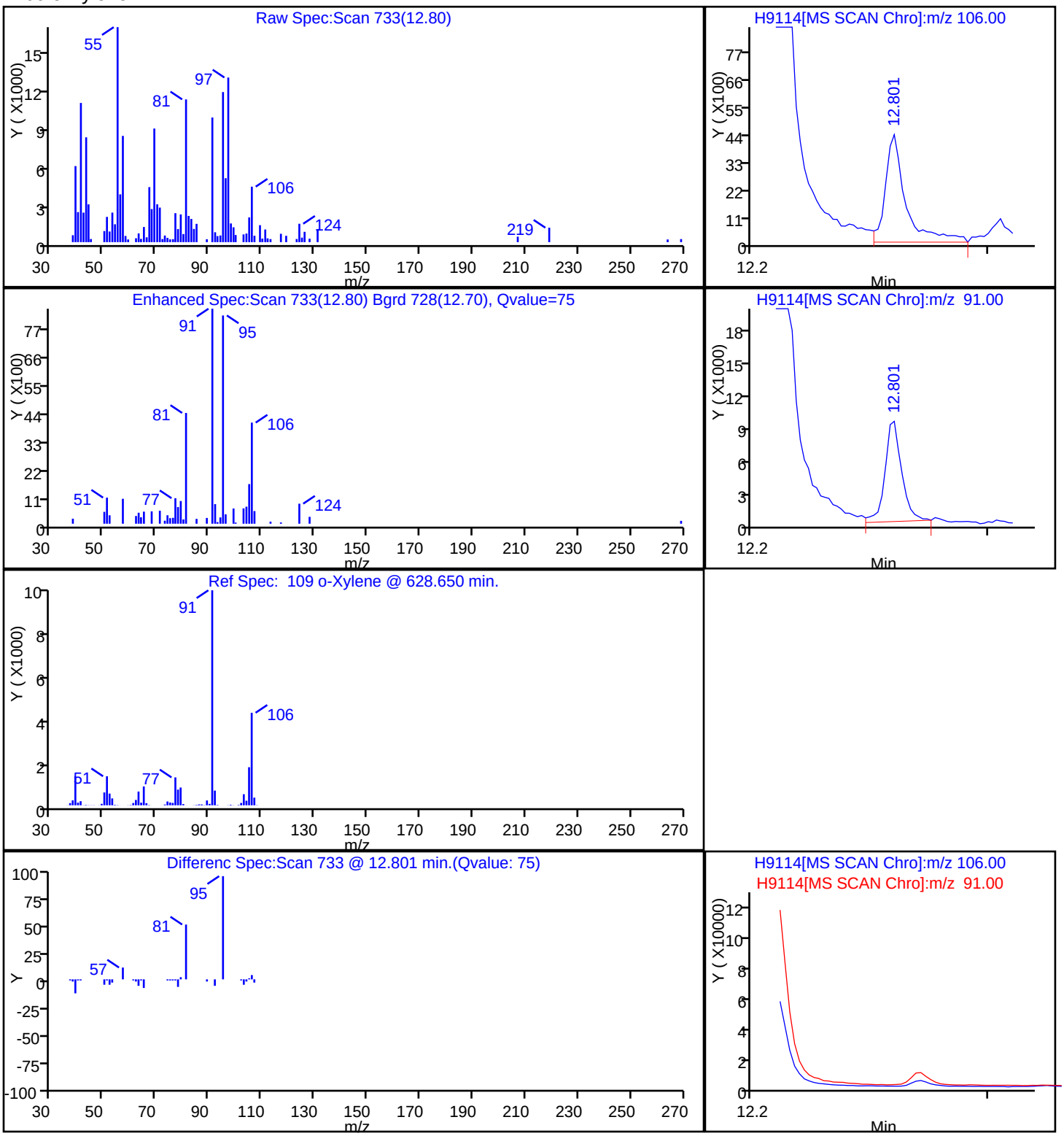
Report Date: 12-Dec-2012 05:43:55 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D

Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

109 o-Xylene



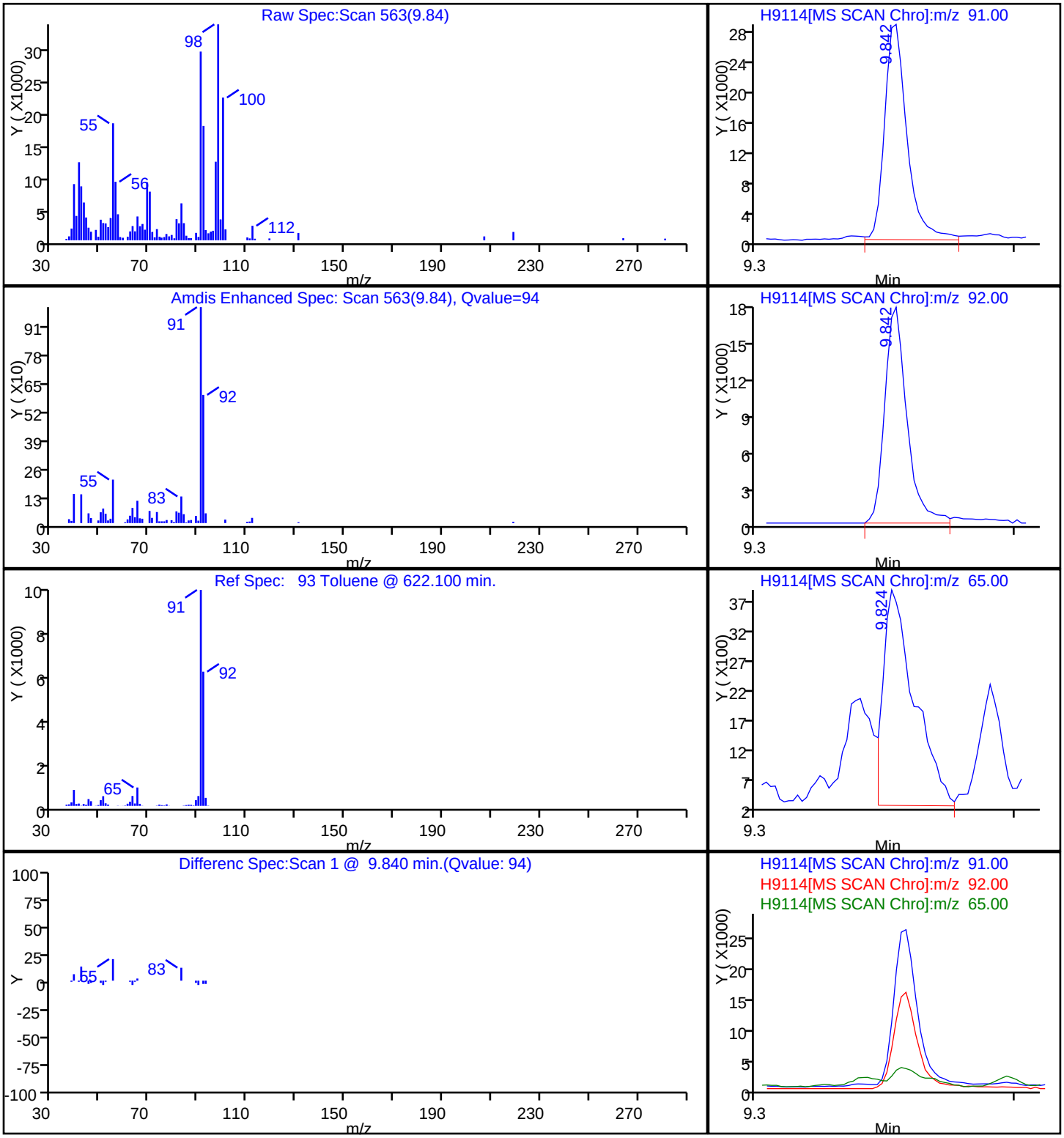
Report Date: 12-Dec-2012 05:43:54 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D

Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

93 Toluene



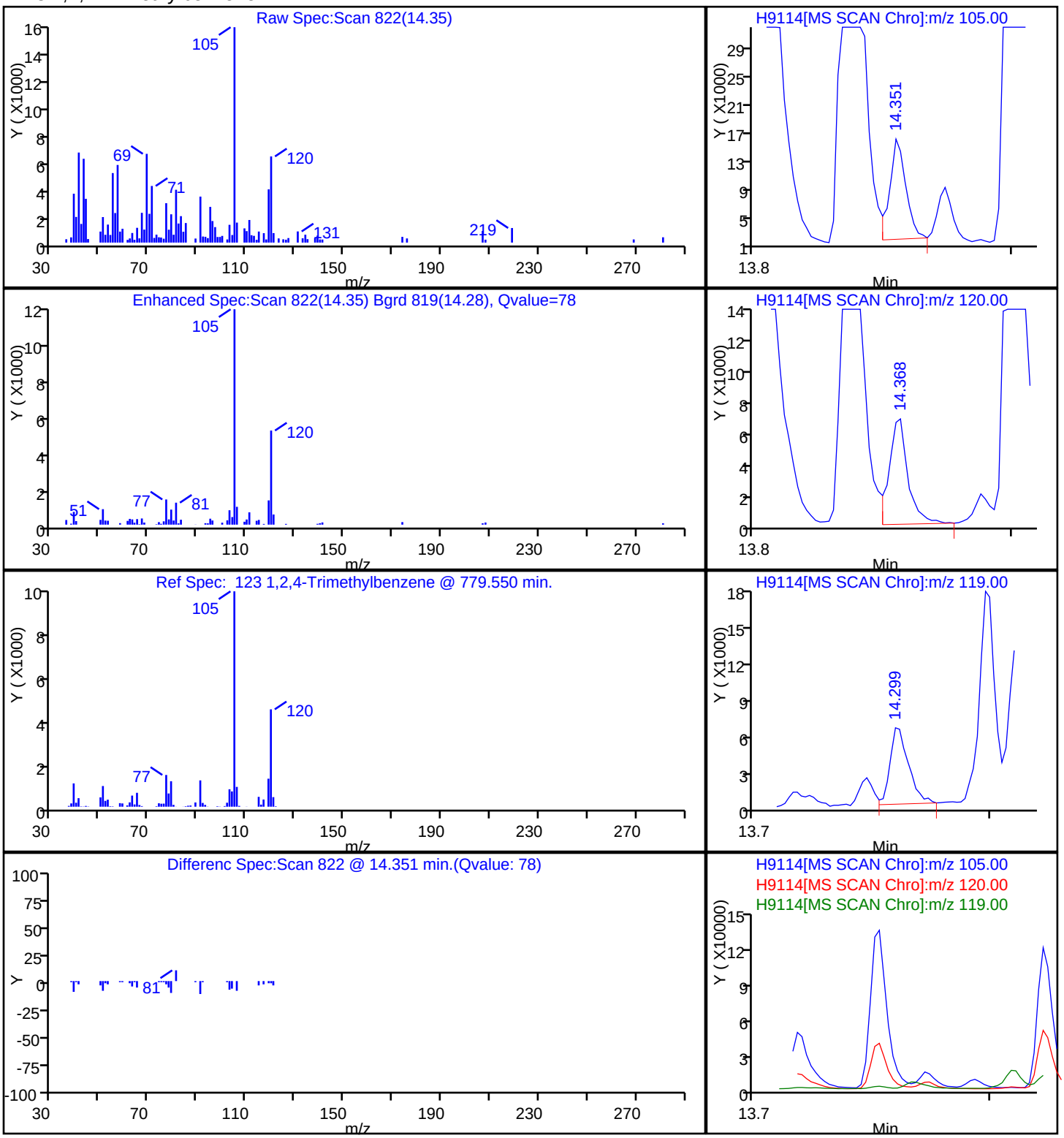
Report Date: 12-Dec-2012 05:43:55 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D

Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

123 1,2,4-Trimethylbenzene



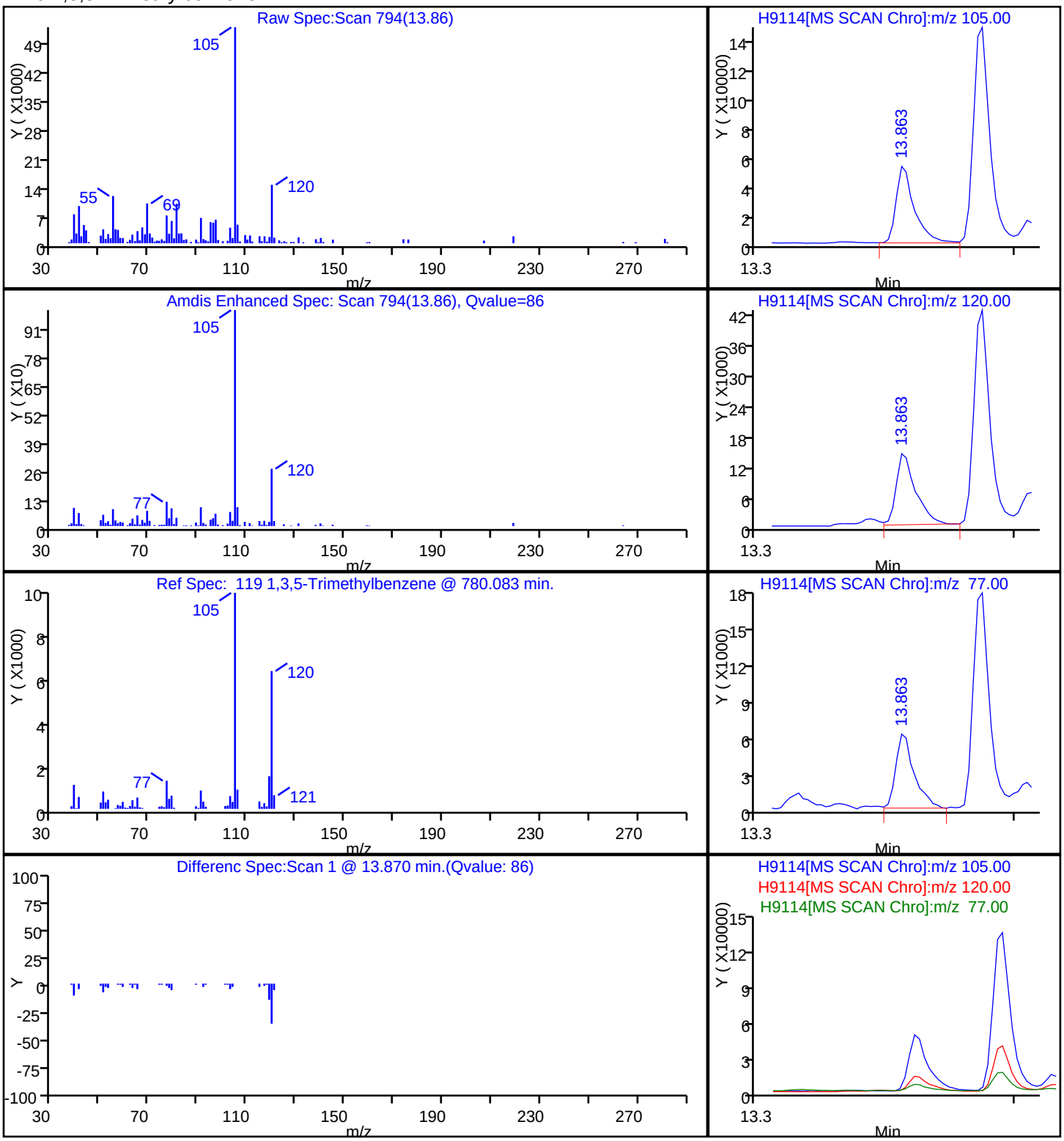
Report Date: 12-Dec-2012 05:43:55 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9114.D

Injection Date:	11-Dec-2012 14:26:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	DUP-1	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	25
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

119 1,3,5-Trimethylbenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 280-36712-15

Matrix: Water | Lab File ID: H9096.D

Analysis Method: 8260B | Date Collected: 12/04/2012 13:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 07:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 280-36712-15

Matrix: Water | Lab File ID: H9096.D

Analysis Method: 8260B | Date Collected: 12/04/2012 13:20

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 07:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.22	U	1.0	0.22
104-51-8	n-Butylbenzene	0.32	U	1.0	0.32
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.21	U	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 280-36712-15

Matrix: Water Lab File ID: H9096.D

Analysis Method: 8260B Date Collected: 12/04/2012 13:20

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 07:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		78-120
1868-53-7	Dibromofluoromethane (Surr)	100		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-127
2037-26-5	Toluene-d8 (Surr)	100		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9096.D
Lims ID: 280-36712-B-15 Client ID: TRIP BLANK
Inject. Date: 11-Dec-2012 07:45:30 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-36712-B-15
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 6
Lims Batch ID: 151489 Lims Sample ID: 7
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 08:31:42

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.595	7.598	-0.003	98	2057672	12.5	
* 2 Chlorobenzene-d5	119	11.948	11.933	0.015	87	435377	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.733	14.736	-0.003	96	689288	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.742	6.745	-0.003	59	850162	8.99	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.178	7.181	-0.003	94	358532	8.68	
$ 7 Toluene-d8 (Surr)	98	9.719	9.722	-0.003	93	1899129	8.96	
$ 8 4-Bromofluorobenzene (Surr)	95	13.445	13.431	0.014	86	970543	8.74	
25 Dichlorodifluoromethane	85		2.648					
28 Chloromethane	50		2.804					
29 Vinyl chloride	62		2.961					
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
34 Trichlorofluoromethane	101		3.692					
45 1,1-Dichloroethene	96		4.162					
43 Acetone	43	4.218	4.215	0.003	84	7291	1.37	
52 Methylene Chloride	84		4.685					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					19
59 1,1-Dichloroethane	63		5.468					
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
69 Chlorobromomethane	128		6.478					
70 Chloroform	83		6.547					
73 1,1,1-Trichloroethane	97		6.791					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					
81 Trichloroethene	95		8.080					19

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63		8.375					
87 Dibromomethane	93		8.550					
88 Dichlorobromomethane	83		8.741					
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					
93 Toluene	91		9.820					
95 trans-1,3-Dichloropropene	75		10.134					
96 1,1,2-Trichloroethane	97		10.447					19
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
117 N-Propylbenzene	120		13.720					
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105		13.929					19
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					19
123 1,2,4-Trimethylbenzene	105		14.347					
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					19
125 4-Isopropyltoluene	119		14.678					
128 1,4-Dichlorobenzene	146		14.747					
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128		16.924					
135 1,2,3-Trichlorobenzene	180		17.167					
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

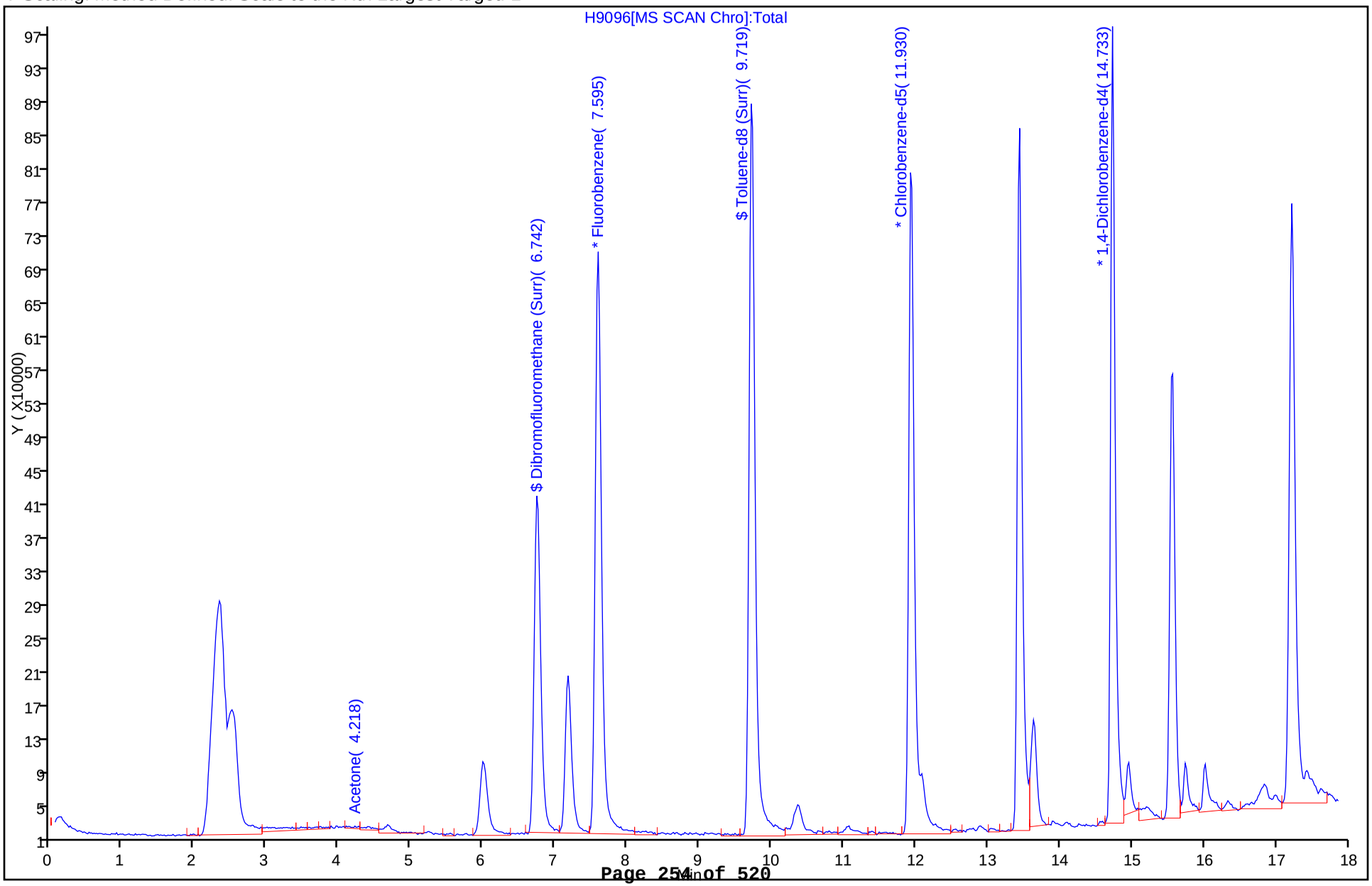
Report Date: 12-Dec-2012 05:43:36 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9096.D

Injection Date:	11-Dec-2012 07:45:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:	TRIP BLANK	Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	7
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 14:05 Calibration End Date: 12/03/2012 16:17 Calibration ID: 11820

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD003 280-150224/2	H8880.D
Level 2	STD01 280-150224/3	H8881.D
Level 3	STD02 280-150224/4	H8882.D
Level 4	STD05 280-150224/5	H8883.D
Level 5	STD10 280-150224/6	H8884.D
Level 6	STD30 280-150224/7	H8885.D
Level 7	STD60 280-150224/8	H8886.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.2237	0.1212 0.2179	0.1205	0.2329	0.1047	Lin	-0.296	0.2235							0.9920		0.9900
Dichlorodifluoromethane	0.5030 0.5623	0.4477 0.5326	0.4233	0.6484	0.5439	Ave		0.5230				14.0		15.0			
Chloromethane	0.3851 0.3083	0.2959 0.2997	0.2637	0.3645	0.3078	Ave		0.3179			0.1000	13.0		15.0			
Vinyl chloride	0.2946 0.3191	0.2841 0.3021	0.2773	0.3636	0.3360	Ave		0.3110				9.9		30.0			
2-Chloro-1,1,1-Trifluoroethane	0.4556 0.4637	0.4663 0.4387	0.4406	0.5457	0.2459	Lin	-0.167	0.4439							0.9920		0.9900
Bromomethane	0.2805 0.2514	0.2678 0.2243	0.2495	0.3222	0.2921	Ave		0.2697				12.0		15.0			
Chloroethane	0.2103 0.1815	0.1980 0.1622	0.1835	0.2343	0.2073	Ave		0.1967				12.0		15.0			
Acetone	+++++ 0.0276	0.0393 0.0278	0.0339	0.0355	0.0295	Ave		0.0323				15.0		15.0			
Trichlorofluoromethane	0.6214 0.5991	0.5893 0.5637	0.5673	0.7021	0.6412	Ave		0.6120				7.9		15.0			
Acetonitrile	+++++ 0.0065	0.0067 0.0061	0.0069	0.0068	0.0074	Ave		0.0067				6.5		15.0			
Acrolein	0.0137 0.0119	0.0122 0.0124	0.0111	0.0143	0.0127	Ave		0.0126				8.7		15.0			
Tert-butyl alcohol (2-methyl-2-propanol)	+++++ 0.0130	0.0140 0.0137	0.0113	0.0163	0.0142	Ave		0.0138				12.0		15.0			
1,1-Dichloroethene	0.3866 0.2691	0.3029 0.2497	0.2803	0.3266	0.2875	Ave		0.3004				15.0		30.0			
Iodomethane	0.5401 0.5413	0.5356 0.5202	0.5100	0.6251	0.5722	Ave		0.5492				7.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 14:05 Calibration End Date: 12/03/2012 16:17 Calibration ID: 11820

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylene Chloride	+++++ 0.2940	+++++ 0.2840	0.3918	0.3962	0.3286	Lin1	0.3299	0.2828							0.9970		0.9900
Acrylonitrile	0.0307 0.0343	0.0349 0.0357	0.0300	0.0393	0.0360	Ave		0.0344				9.3		15.0			
trans-1,2-Dichloroethene	0.4287 0.3682	0.4050 0.3568	0.3670	0.4251	0.3883	Ave		0.3913				7.4		15.0			
2-Butanone (MEK)	+++++ 0.0759	0.0677 0.0796	0.0607	0.0852	0.0828	Ave		0.0753				13.0		15.0			
Propionitrile	+++++ 0.0132	0.0116 0.0134	0.0107	0.0149	0.0138	Ave		0.0129				12.0		15.0			
1,1-Dichloroethane	0.6840 0.6751	0.6831 0.6405	0.6585	0.7968	0.7174	Ave		0.6936			0.1000	7.4		15.0			
Isopropyl ether	0.3137 0.3029	0.3107 0.2872	0.2932	0.3620	0.3275	Ave		0.3139				8.0		15.0			
Chloroprene	0.5165 0.4889	0.5001 0.4601	0.4601	0.5549	0.5154	Ave		0.4994				6.8		15.0			
cis-1,2-Dichloroethene	0.4279 0.3872	0.3970 0.3790	0.3863	0.4588	0.4088	Ave		0.4064				7.0		15.0			
2,2-Dichloropropane	0.6335 0.4962	0.5509 0.4720	0.5125	0.5704	0.5316	Ave		0.5381				9.9		15.0			
Methacrylonitrile	0.1020 0.0986	0.0990 0.1010	0.0915	0.1183	0.1059	Ave		0.1023				8.1		15.0			
Bromochloromethane	0.1532 0.1710	0.1667 0.1712	0.1593	0.1995	0.1834	Ave		0.1721				9.0		15.0			
Chloroform	0.7120 0.6662	0.6928 0.6530	0.6595	0.7863	0.7045	Ave		0.6963				6.6		30.0			
1,1,1-Trichloroethane	0.6312 0.5909	0.5996 0.5769	0.5844	0.6863	0.6260	Ave		0.6136				6.2		15.0			
n-Butanol	+++++ 0.0037	0.0029 0.0042	0.0028	0.0040	0.0039	Lin1	-0.048	0.0041							0.9950		0.9900
1,1-Dichloropropene	0.6449 0.5816	0.6144 0.5619	0.5893	0.6852	0.6114	Ave		0.6127				6.8		15.0			
Carbon tetrachloride	0.5299 0.5237	0.5278 0.5102	0.5164	0.5832	0.5509	Ave		0.5346				4.7		15.0			
Isobutyl alcohol	0.0046 0.0053	0.0046 0.0055	0.0043	0.0063	0.0058	Ave		0.0052				14.0		15.0			
Benzene	1.1875 1.1371	1.1323 1.1077	1.0999	1.3170	1.2027	Ave		1.1692				6.5		15.0			
1,2-Dichloroethane	0.2769 0.2686	0.2817 0.2714	0.2573	0.3255	0.2914	Ave		0.2818				7.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 14:05 Calibration End Date: 12/03/2012 16:17 Calibration ID: 11820

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.0014	0.0008 0.0014	0.0009	0.0014	0.0013	Lin2	-0.030	0.0014							0.9940		0.9900
Trichloroethene	0.5310 0.4550	0.5067 0.4411	0.4387	0.5431	0.4845	Ave		0.4857				8.8		15.0			
1,2-Dichloropropane	0.3908 0.4136	0.4113 0.4083	0.3900	0.4829	0.4376	Ave		0.4192				7.7		30.0			
Dibromomethane	0.2381 0.2233	0.2403 0.2271	0.2160	0.2659	0.2420	Ave		0.2361				6.9		15.0			
Bromodichloromethane	0.6407 0.5816	0.5884 0.5877	0.5596	0.6843	0.6177	Ave		0.6086				7.0		15.0			
cis-1,3-Dichloropropene	2.4058 2.7605	2.6807 2.7866	2.5778	3.2168	2.8839	Ave		2.7589				9.2		15.0			
4-Methyl-2-pentanone	0.2159 0.2236	0.2039 0.2345	0.1879	0.2526	0.2398	Ave		0.2226				9.9		15.0			
Toluene	1.3852 1.3025	1.3254 1.2890	1.3001	1.5241	1.3875	Ave		1.3591				6.1		30.0			
trans-1,3-Dichloropropene	0.4055 0.3808	0.3849 0.3892	0.3643	0.4462	0.4057	Ave		0.3967				6.6		15.0			
1,1,2-Trichloroethane	0.2882 0.2493	0.2695 0.2593	0.2485	0.3084	0.2783	Ave		0.2717				8.0		15.0			
Tetrachloroethene	1.9222 2.2192	2.2176 2.1619	2.1523	2.5541	2.3236	Ave		2.2216				8.6		15.0			
1,3-Dichloropropane	1.9442 2.1931	2.1781 2.1865	2.0086	2.5668	2.3014	Ave		2.1970				9.2		15.0			
2-Hexanone	+++++ 0.7693	0.6650 0.8168	0.5422	0.8514	0.7895	Lin1	-0.904	0.8087							0.9980		0.9900
Dibromochloromethane	1.7678 2.1324	2.0478 2.1842	1.9289	2.3672	2.1507	Ave		2.0827				9.2		15.0			
1,2-Dibromoethane (EDB)	1.3977 1.6766	1.5779 1.7214	1.4829	1.9539	1.7643	Ave		1.6536				11.0		15.0			
1-Chlorohexane	3.1152 2.9898	3.0924 2.9243	2.9859	3.5202	3.1535	Ave		3.1116				6.4		15.0			
Chlorobenzene	3.8667 4.3338	4.3839 4.3609	4.1477	5.1426	4.6167	Ave		4.4075			0.3000	9.0		15.0			
1,1,1,2-Tetrachloroethane	1.7814 2.0020	2.0941 2.0059	1.9614	2.3441	2.1040	Ave		2.0418				8.4		15.0			
Ethylbenzene	2.0820 2.2906	2.2434 2.2029	2.2200	2.6742	2.4072	Ave		2.3029				8.3		30.0			
m-Xylene & p-Xylene	2.6965 2.9817	2.9681 2.9492	3.0116	3.5444	3.1982	Ave		3.0500				8.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 14:05 Calibration End Date: 12/03/2012 16:17 Calibration ID: 11820

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
o-Xylene	2.3386 2.7504	2.7770 2.7287	2.6827	3.2133	2.9229	Ave		2.7734				9.5		15.0			
Styrene	3.6057 4.4164	4.1247 4.4078	4.1207	5.1353	4.6927	Ave		4.3576				11.0		15.0			
Bromoform	1.1544 1.3855	1.3061 1.4305	1.2053	1.5701	1.4428	Ave		1.3564			0.1000	11.0		15.0			
Isopropylbenzene	4.4995 4.8666	4.7593 4.9140	4.7371	5.5954	4.9737	Ave		4.9065				6.9		15.0			
Cyclohexanone	0.0200 0.0260	0.0235 0.0272	0.0220	0.0293	0.0280	Ave		0.0251				14.0		15.0			
1,1,2,2-Tetrachloroethane	1.0810 0.9702	1.0222 0.9944	0.9130	1.1480	0.9871	Ave		1.0166			0.3000	7.6		15.0			
Bromobenzene	1.1146 1.2374	1.1822 1.2665	1.1615	1.4156	1.2688	Ave		1.2352				7.9		15.0			
1,2,3-Trichloropropane	0.1953 0.2238	0.2134 0.2271	0.1960	0.2547	0.2310	Ave		0.2202				9.5		15.0			
n-Propylbenzene	1.0725 1.1700	1.1494 1.1734	1.1568	1.3594	1.1993	Ave		1.1830				7.4		15.0			
2-Chlorotoluene	0.9070 0.9600	0.9781 0.9580	0.9147	1.0813	0.9699	Ave		0.9670				5.9		15.0			
1,3,5-Trimethylbenzene	3.5119 3.6406	3.5397 3.6743	3.5122	4.0654	3.7281	Ave		3.6674				5.3		15.0			
4-Chlorotoluene	0.9811 1.0806	1.0467 1.0974	1.0777	1.2711	1.1433	Ave		1.0997				8.2		15.0			
tert-Butylbenzene	3.5365 3.7423	3.6496 3.7425	3.7092	4.3164	3.8617	Ave		3.7940				6.6		15.0			
1,2,4-Trimethylbenzene	3.4051 3.4120	3.3578 3.4715	3.3552	3.9776	3.5864	Ave		3.5094				6.3		15.0			
sec-Butylbenzene	0.9799 0.9959	1.0186 0.9806	1.0086	1.1379	1.0288	Ave		1.0215				5.3		15.0			
1,3-Dichlorobenzene	1.7912 1.8244	1.9559 2.0156	1.7054	2.0513	1.8429	Ave		1.8838				6.7		15.0			
4-Isopropyltoluene	3.9688 4.0973	4.0847 3.9917	4.0938	4.8077	4.3127	Ave		4.1938				7.0		15.0			
1,4-Dichlorobenzene	2.4668 2.3805	2.4697 2.2441	2.5295	2.9431	2.6362	Ave		2.5243				8.8		15.0			
n-Butylbenzene	4.5522 4.2535	4.2402 4.2993	4.2778	4.9109	4.4593	Ave		4.4276				5.5		15.0			
1,2-Dichlorobenzene	1.7349 1.7396	1.8163 1.7427	1.6873	2.0759	1.8451	Ave		1.8060				7.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 14:05 Calibration End Date: 12/03/2012 16:17 Calibration ID: 11820

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.1828	0.1785 0.1886	0.1602	0.2087	0.1905	Ave		0.1849				8.6		15.0			
1,2,4-Trichlorobenzene	1.3576 1.3969	1.4342 1.4182	1.3679	1.6318	1.5098	Ave		1.4452				6.7		15.0			
Hexachlorobutadiene	1.1963 1.0948	1.2203 1.0602	1.1912	1.3400	1.2378	Ave		1.1915				7.8		15.0			
Naphthalene	1.4335 1.4643	1.4735 1.4992	1.3276	1.6788	1.6198	Ave		1.4995				7.8		15.0			
1,2,3-Trichlorobenzene	1.2173 1.1438	1.2254 1.1451	1.1753	1.3202	1.2586	Ave		1.2122				5.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 14:05 Calibration End Date: 12/03/2012 16:17 Calibration ID: 11820

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD003 280-150224/2	H8880.D
Level 2	STD01 280-150224/3	H8881.D
Level 3	STD02 280-150224/4	H8882.D
Level 4	STD05 280-150224/5	H8883.D
Level 5	STD10 280-150224/6	H8884.D
Level 6	STD30 280-150224/7	H8885.D
Level 7	STD60 280-150224/8	H8886.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Lin	+++++ 680080	10883 1399992	22439	95102	101306	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
Dichlorodifluoromethane	FB	Ave	13301 1709292	40201 3421483	78824	264810	526388	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloromethane	FB	Ave	10182 936985	26574 1925648	49109	148860	297947	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Vinyl chloride	FB	Ave	7791 969809	25513 1941127	51639	148493	325238	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Chloro-1,1,1-Trifluoroethane	FB	Lin	12048 1409493	41875 2818457	82046	222873	237980	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromomethane	FB	Ave	7416 764275	24049 1441224	46464	131599	282715	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroethane	FB	Ave	5560 551559	17780 1042296	34159	95664	200655	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Acetone	FB	Ave	+++++ 335029	14100 715337	25252	57968	114224	+++++ 120	4.00 240	8.00	20.0	40.0
Trichlorofluoromethane	FB	Ave	16432 1820965	52920 3621370	105624	286714	620629	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Acetonitrile	FB	Ave	+++++ 196545	6060 390474	12861	27809	71488	+++++ 300	10.0 600	20.0	50.0	100
Acrolein	FB	Ave	3530 351889	10691 779987	20184	57142	120467	2.93 293	9.76 586	19.5	48.8	97.6
Tert-butyl alcohol (2-methyl-2-propanol)	FB	Ave	+++++ 790537	25218 1761251	41983	133376	274062	+++++ 600	20.0 1200	40.0	100	200
1,1-Dichloroethene	FB	Ave	10224 817870	27195 1604012	52187	133367	278282	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Iodomethane	FB	Ave	14283 1645210	48092 3341796	94971	255298	553854	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Methylene Chloride	FB	Lin1	+++++ 893512	+++++ 1824831	72946	161782	318084	+++++ 30.0	+++++ 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 14:05 Calibration End Date: 12/03/2012 16:17 Calibration ID: 11820

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	8128 1042020	31311 2296131	55846	160324	348907	3.00 300	10.0 600	20.0	50.0	100
trans-1,2-Dichloroethene	FB	Ave	11336 1119224	36372 2292583	68334	173583	375847	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Butanone (MEK)	FB	Ave	+++++ 923033	24310 2046771	45187	139116	320653	+++++ 120	4.00 240	8.00	20.0	40.0
Propionitrile	FB	Ave	+++++ 402422	10407 858936	19972	60940	133462	+++++ 300	10.0 600	20.0	50.0	100
1,1-Dichloroethane	FB	Ave	18087 2051977	61340 4115116	122614	325398	694338	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isopropyl ether	FB	Ave	41473 4604081	139490 9226595	273014	739112	1584865	1.50 150	5.00 300	10.0	25.0	50.0
Chloroprene	FB	Ave	13657 1486191	44906 2956021	85677	226607	498873	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	11314 1176939	35648 2434773	71935	187355	395629	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2,2-Dichloropropane	FB	Ave	16751 1508209	49473 3032064	95422	232950	514510	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Methacrylonitrile	FB	Ave	26979 2997041	88856 6488244	170387	482986	1025078	3.00 300	10.0 600	20.0	50.0	100
Bromochloromethane	FB	Ave	4052 519918	14969 1099896	29658	81454	177545	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Chloroform	FB	Ave	18828 2025103	62212 4195286	122797	321105	681815	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	16691 1796063	53846 3706599	108822	280259	605864	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butanol	FB	Lin1	+++++ 334263	7890 815519	15490	49583	114646	+++++ 900	30.0 1800	60.0	150	300
1,1-Dichloropropene	FB	Ave	17053 1767851	55172 3609817	109734	279803	591786	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Carbon tetrachloride	FB	Ave	14012 1592001	47395 3277487	96162	238152	533181	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Isobutyl alcohol	FB	Ave	2442 321542	8244 711013	16093	51175	111804	6.00 600	20.0 1200	40.0	100	200
Benzene	FB	Ave	31401 3456375	101675 7116716	204810	537825	1164040	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichloroethane	FB	Ave	7322 816590	25292 1743310	47915	132933	282011	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dioxane	FB	Lin2	+++++ 205791	3802 440236	8693	28126	64787	+++++ 1500	50.0 3000	100	250	500
Trichloroethene	FB	Ave	14041 1383063	45500 2833952	81678	221789	468955	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 14:05 Calibration End Date: 12/03/2012 16:17 Calibration ID: 11820

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	10334 1257287	36929 2623377	72622	197225	423564	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Dibromomethane	FB	Ave	6297 678739	21577 1458883	40221	108604	234183	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromodichloromethane	FB	Ave	16943 1767889	52833 3775871	104189	279438	597826	0.300 30.0	1.00 60.0	2.00	5.00	10.0
cis-1,3-Dichloropropene	CBZ	Ave	14166 1622129	47420 3430162	93791	253903	545108	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Methyl-2-pentanone	FB	Ave	22833 2718736	73234 6025935	139970	412643	928350	1.20 120	4.00 240	8.00	20.0	40.0
Toluene	FB	Ave	36628 3959263	119013 8280915	242078	622424	1342865	0.300 30.0	1.00 60.0	2.00	5.00	10.0
trans-1,3-Dichloropropene	FB	Ave	10722 1157449	34561 2500655	67827	182217	392682	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,2-Trichloroethane	FB	Ave	7622 757648	24204 1665745	46277	125962	269347	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Tetrachloroethene	CBZ	Ave	11318 1304046	39228 2661193	78312	201596	439217	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichloropropane	CBZ	Ave	11448 1288724	38528 2691413	73082	202598	435015	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Hexanone	CBZ	Lin1	+++++ 1808096	47054 4021804	78910	268801	596912	+++++ 120	4.00 240	8.00	20.0	40.0
Dibromochloromethane	CBZ	Ave	10409 1253060	36224 2688607	70183	186845	406530	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromoethane (EDB)	CBZ	Ave	8230 985226	27912 2118917	53956	154225	333491	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1-Chlorohexane	CBZ	Ave	18801 1800756	56068 3689570	111353	284790	610972	0.307 30.7	1.02 61.5	2.05	5.12	10.2
Chlorobenzene	CBZ	Ave	22768 2546606	77548 5368030	150911	405909	872655	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	10489 1176435	37042 2469102	71366	185016	397699	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Ethylbenzene	CBZ	Ave	12259 1346015	39683 2711578	80773	211077	455007	0.300 30.0	1.00 60.0	2.00	5.00	10.0
m-Xylene & p-Xylene	CBZ	Ave	31755 3504212	105007 7260639	219154	559526	1209057	0.600 60.0	2.00 120	4.00	10.0	20.0
o-Xylene	CBZ	Ave	13770 1616159	49122 3358903	97609	253622	552487	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Styrene	CBZ	Ave	21231 2595162	72963 5425691	149932	405327	887021	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromoform	CBZ	Ave	6797 814138	23104 1760902	43855	123931	272724	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 14:05 Calibration End Date: 12/03/2012 16:17 Calibration ID: 11820

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Isopropylbenzene	DCB	Ave	42604 4795549	148467 9976661	295774	765365	1646983	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Cyclohexanone	CBZ	Ave	4707 611545	16607 1341157	31992	92363	211470	12.0 1200	40.0 2400	80.0	200	400
1,1,2,2-Tetrachloroethane	DCB	Ave	10236 956062	31887 2018858	57003	157035	326881	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Bromobenzene	DCB	Ave	10554 1219330	36878 2571227	72518	193636	420134	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,3-Trichloropropane	DCB	Ave	1849 220528	6656 461173	12236	34843	76481	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Propylbenzene	DCB	Ave	10155 1152920	35855 2382249	72227	185939	397134	0.300 30.0	1.00 60.0	2.00	5.00	10.0
2-Chlorotoluene	DCB	Ave	8588 945958	30513 1944927	57114	147904	321164	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3,5-Trimethylbenzene	DCB	Ave	33253 3587527	110422 7459745	219290	556080	1234510	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Chlorotoluene	DCB	Ave	9290 1064846	32653 2228068	67289	173869	378605	0.300 30.0	1.00 60.0	2.00	5.00	10.0
tert-Butylbenzene	DCB	Ave	33486 3687688	113851 7598297	231592	590425	1278769	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trimethylbenzene	DCB	Ave	32242 3362236	104748 7048140	209490	544076	1187583	0.300 30.0	1.00 60.0	2.00	5.00	10.0
sec-Butylbenzene	DCB	Ave	9278 981387	31776 1990916	62975	155646	340661	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,3-Dichlorobenzene	DCB	Ave	16960 1797778	61014 4092195	106480	280591	610254	0.300 30.0	1.00 60.0	2.00	5.00	10.0
4-Isopropyltoluene	DCB	Ave	37579 4037502	127425 8104237	255607	657625	1428100	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,4-Dichlorobenzene	DCB	Ave	23357 2345754	77044 4556176	157934	402577	872945	0.300 30.0	1.00 60.0	2.00	5.00	10.0
n-Butylbenzene	DCB	Ave	43103 4191455	132274 8728711	267097	671739	1476649	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dichlorobenzene	DCB	Ave	16427 1714172	56661 3538080	105353	283949	610995	0.300 30.0	1.00 60.0	2.00	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 180121	5567 382997	10003	28546	63075	+++++ 30.0	1.00 60.0	2.00	5.00	10.0
1,2,4-Trichlorobenzene	DCB	Ave	12855 1376551	44739 2879235	85409	223206	499938	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Hexachlorobutadiene	DCB	Ave	11327 1078867	38069 2152523	74373	183287	409870	0.300 30.0	1.00 60.0	2.00	5.00	10.0
Naphthalene	DCB	Ave	13573 1442886	45965 3043708	82893	229634	536390	0.300 30.0	1.00 60.0	2.00	5.00	10.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 14:05 Calibration End Date: 12/03/2012 16:17 Calibration ID: 11820

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCB	Ave	11526 1127067	38226 2324939	73384	180585	416755	0.300 30.0	1.00 60.0	2.00	5.00	10.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8880.D
Lims ID: std003 Client ID:
Inject. Date: 03-Dec-2012 14:05:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: std003
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 1
Lims Batch ID: 150224 Lims Sample ID: 2
Sublist: chrom-AQ_VMSH_8260*sub3
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m
Last Update: 04-Dec-2012 06:01:13 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC186

First Level Reviewer: meierg Date: 03-Dec-2012 14:36:53

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.580	7.580	0.0	98	1101778	12.5	
* 2 Chlorobenzene-d5	119	11.932	11.915	0.017	89	245340	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.718	14.718	0.0	96	394526	12.5	
24 Chlorotrifluoroethene	116		2.595					19
25 Dichlorodifluoromethane	85	2.636	2.647	-0.011	43	13301	0.2885	
28 Chloromethane	50	2.792	2.804	-0.012	48	10182	0.3634	
29 Vinyl chloride	62	2.949	2.960	-0.011	36	7791	0.2842	
27 2-Chloro-1,1,1-Trifluoroethane	118	2.984	3.012	-0.028	1	12048	0.6837	
31 Bromomethane	94	3.280	3.274	0.006	67	7416	0.3120	
32 Chloroethane	64	3.350	3.343	0.007	50	5560	0.3207	
34 Trichlorofluoromethane	101	3.680	3.691	-0.011	53	16432	0.3046	
35 Ethanol	45		3.813					19
41 Acrolein	56	4.063	4.057	0.006	44	3530	3.17	
45 1,1-Dichloroethene	96	4.168	4.161	0.007	65	10224	0.3862	
43 Acetone	43		4.214					
46 Iodomethane	142	4.359	4.353	0.006	74	14283	0.2950	
48 Acetonitrile	41		4.562					
52 Methylene Chloride	84	4.690	4.684	0.006	90	27798	-0.0514	
51 2-Methyl-2-propanol	59		4.788					
53 Acrylonitrile	53	4.986	4.980	0.006	32	8128	2.68	
55 trans-1,2-Dichloroethene	96	5.003	4.997	0.006	78	11336	0.3287	
59 1,1-Dichloroethane	63	5.474	5.467	0.007	42	18087	0.2958	
58 Isopropyl ether	87	5.508	5.502	0.006	98	41473	1.50	
60 2-Chloro-1,3-butadiene	53	5.578	5.572	0.006	36	13657	0.3102	
63 2-Butanone (MEK)	43		6.164					
65 cis-1,2-Dichloroethene	96	6.153	6.164	-0.012	31	11314	0.3158	
67 2,2-Dichloropropane	77	6.170	6.181	-0.011	57	16751	0.3531	
66 Propionitrile	54		6.268					
68 Methacrylonitrile	41	6.448	6.425	0.023	86	26979	2.99	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
69 Chlorobromomethane	128	6.466	6.477	-0.011	66	4052	0.2672	
70 Chloroform	83	6.536	6.529	0.007	64	18828	0.3068	
73 1,1,1-Trichloroethane	97	6.797	6.790	0.007	63	16691	0.3086	
75 1,1-Dichloropropene	75	6.988	6.982	0.006	66	17053	0.3158	
76 Carbon tetrachloride	117	7.006	6.999	0.007	62	14012	0.2974	
72 Isobutyl alcohol	41	7.110	7.086	0.024	36	2442	5.33	
79 Benzene	78	7.249	7.243	0.006	88	31401	0.3047	
78 1,2-Dichloroethane	62	7.267	7.260	0.007	49	7322	0.2948	
80 n-Butanol	56		7.957					
81 Trichloroethene	95	8.085	8.061	0.024	75	14041	0.3280	
85 1,2-Dichloropropane	63	8.381	8.375	0.006	59	10334	0.2797	
87 Dibromomethane	93	8.555	8.549	0.006	70	6297	0.3026	
86 1,4-Dioxane	88		8.549					
88 Dichlorobromomethane	83	8.747	8.740	0.007	62	16943	0.3159	
91 cis-1,3-Dichloropropene	75	9.338	9.332	0.006	50	14166	0.2616	
92 4-Methyl-2-pentanone (MIBK)	43	9.547	9.541	0.006	81	22833	1.16	
93 Toluene	91	9.826	9.820	0.006	79	36628	0.3058	
95 trans-1,3-Dichloropropene	75	10.139	10.133	0.006	54	10722	0.3067	
96 1,1,2-Trichloroethane	97	10.435	10.429	0.006	19	7622	0.3183	
99 Tetrachloroethene	164	10.679	10.673	0.006	81	11318	0.2596	
98 1,3-Dichloropropane	76	10.714	10.707	0.007	50	11448	0.2655	
97 2-Hexanone	43	10.853	10.829	0.024	59	10150	1.76	
100 Chlorodibromomethane	129	11.097	11.090	0.007	49	10409	0.2546	
102 Ethylene Dibromide	107	11.288	11.282	0.006	50	8230	0.2536	
103 1-Chlorohexane	91	11.915	11.909	0.006	61	18801	0.3078	
104 Chlorobenzene	112	11.967	11.961	0.006	71	22768	0.2632	
106 1,1,1,2-Tetrachloroethane	131	12.089	12.083	0.006	33	10489	0.2617	
105 Ethylbenzene	106	12.107	12.100	0.007	84	12259	0.2712	
107 m-Xylene & p-Xylene	106	12.263	12.257	0.006	0	31755	0.5305	
109 o-Xylene	106	12.786	12.779	0.007	83	13770	0.2530	
108 Styrene	104	12.803	12.797	0.006	76	21231	0.2482	
110 Bromoform	173	13.064	13.058	0.006	56	6797	0.2553	
111 Isopropylbenzene	105	13.221	13.232	-0.011	72	42604	0.2751	
113 Cyclohexanone	55	13.377	13.371	0.006	60	4707	9.54	
114 1,1,2,2-Tetrachloroethane	83	13.604	13.597	0.007	4	10236	0.3190	
118 Bromobenzene	156	13.621	13.615	0.006	74	10554	0.2707	
116 1,2,3-Trichloropropane	110	13.656	13.650	0.006	18	1849	0.2661	
117 N-Propylbenzene	120	13.708	13.719	-0.011	79	10155	0.2720	
120 2-Chlorotoluene	126	13.830	13.824	0.006	80	8588	0.2814	
119 1,3,5-Trimethylbenzene	105	13.917	13.911	0.006	77	33253	0.2873	
121 4-Chlorotoluene	126	13.952	13.946	0.006	83	9290	0.2676	
122 tert-Butylbenzene	119	14.283	14.294	-0.011	78	33486	0.2796	
123 1,2,4-Trimethylbenzene	105	14.335	14.346	-0.011	81	32242	0.2911	
124 sec-Butylbenzene	134	14.527	14.520	0.007	64	9278	0.2878	
126 1,3-Dichlorobenzene	146	14.666	14.659	0.007	54	16960	0.2852	
125 4-Isopropyltoluene	119	14.666	14.677	-0.011	86	37579	0.2839	
128 1,4-Dichlorobenzene	146	14.753	14.746	0.007	66	23357	0.2932	
129 n-Butylbenzene	91	15.101	15.095	0.006	83	43103	0.3084	
130 1,2-Dichlorobenzene	146	15.136	15.129	0.007	72	16427	0.2882	
131 1,2-Dibromo-3-Chloropropane	157	15.902	15.913	-0.011	2	1077	0.1846	
132 1,2,4-Trichlorobenzene	180	16.668	16.679	-0.011	42	12855	0.2818	
133 Hexachlorobutadiene	225	16.825	16.818	0.007	67	11327	0.3012	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
134 Naphthalene	128	16.929	16.923	0.006	60	13573	0.2868	
135 1,2,3-Trichlorobenzene	180	17.173	17.166	0.007	34	11526	0.3012	
S 139 1,3-Dichloropropene, Total	1				0		0.5683	
S 140 1,2-Dichloroethene, Total	1				0		0.6445	
S 141 Xylenes, Total	106				0		0.7834	
S 136 Trihalomethanes, Total	1				0		1.13	
S 137 Xylenes, Total (URS)	1				0		0.7834	
S 138 Total BTEX	1				0		1.67	
S 142 1,2-Dichloroethene, Total (URS)	96				0		0.6445	

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

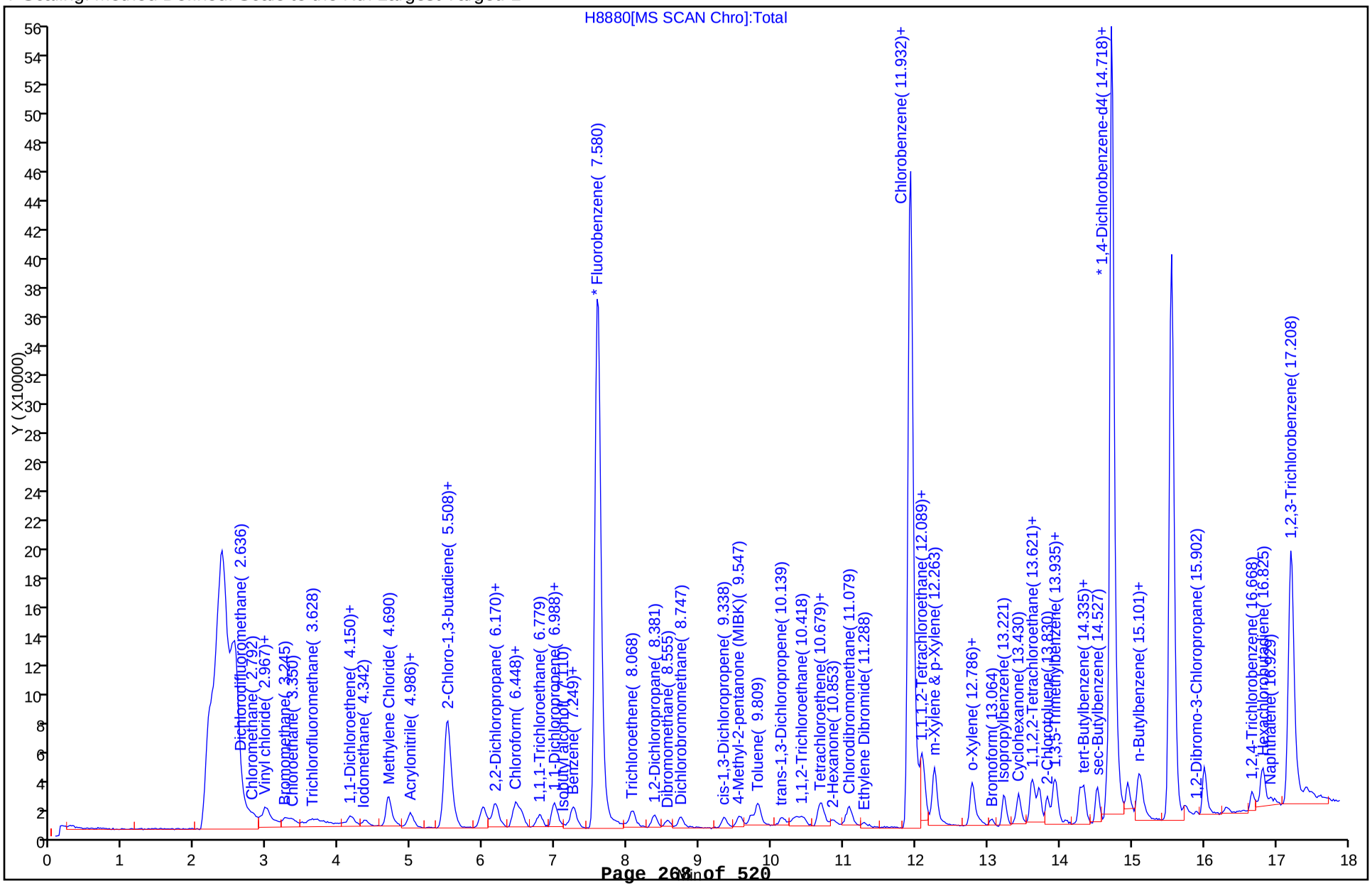
Report Date: 04-Dec-2012 06:01:13 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8880.D

Injection Date:	03-Dec-2012 14:05:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	2
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8881.D
Lims ID: std01 Client ID:
Inject. Date: 03-Dec-2012 14:27:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: std01
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 2
Lims Batch ID: 150224 Lims Sample ID: 3
Sublist: chrom-AQ_VMSH_8260*sub3
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m
Last Update: 04-Dec-2012 06:01:14 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC186

First Level Reviewer: meierg Date: 04-Dec-2012 05:44:34

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.592	7.580	0.012	98	1122459	12.5	
* 2 Chlorobenzene-d5	119	11.927	11.915	0.012	88	221114	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.730	14.718	0.012	95	389943	12.5	
24 Chlorotrifluoroethene	116	2.595	2.595	0.0	56	10883	1.87	
25 Dichlorodifluoromethane	85	2.647	2.647	0.0	90	40201	0.8559	
28 Chloromethane	50	2.787	2.804	-0.017	75	26574	0.9310	
29 Vinyl chloride	62	2.961	2.960	0.001	78	25513	0.9136	
27 2-Chloro-1,1,1-Trifluoroethane	118	2.995	3.012	-0.017	6	41875	1.43	
31 Bromomethane	94	3.274	3.274	0.0	73	24049	0.99	
32 Chloroethane	64	3.326	3.343	-0.017	63	17780	1.01	
34 Trichlorofluoromethane	101	3.605	3.691	-0.086	79	52920	0.9629	
35 Ethanol	45		3.813					19
41 Acrolein	56	4.057	4.057	0.0	46	10691	9.43	
45 1,1-Dichloroethene	96	4.145	4.161	-0.016	83	27195	1.01	
43 Acetone	43	4.214	4.214	0.0	80	14100	4.87	
46 Iodomethane	142	4.353	4.353	0.0	95	48092	0.9751	
48 Acetonitrile	41	4.545	4.562	-0.017	73	6060	10.0	
52 Methylene Chloride	84	4.684	4.684	0.0	98	47384	0.6992	
51 2-Methyl-2-propanol	59	4.789	4.788	0.001	86	25218	20.4	
53 Acrylonitrile	53	4.963	4.980	-0.017	59	31311	10.1	
55 trans-1,2-Dichloroethene	96	4.998	4.997	0.001	91	36372	1.04	
59 1,1-Dichloroethane	63	5.468	5.467	0.001	70	61340	0.9848	
58 Isopropyl ether	87	5.502	5.502	0.0	99	139490	4.95	
60 2-Chloro-1,3-butadiene	53	5.572	5.572	0.0	78	44906	1.00	
63 2-Butanone (MEK)	43	6.181	6.164	0.017	48	24310	3.59	
65 cis-1,2-Dichloroethene	96	6.164	6.164	0.0	83	35648	0.9768	
67 2,2-Dichloropropane	77	6.181	6.181	0.0	73	49473	1.02	
66 Propionitrile	54	6.286	6.268	0.018	72	10407	8.96	
68 Methacrylonitrile	41	6.443	6.425	0.018	93	88856	9.67	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
69 Chlorobromomethane	128	6.477	6.477	0.0	85	14969	0.9689	
70 Chloroform	83	6.530	6.529	0.001	78	62212	0.99	
73 1,1,1-Trichloroethane	97	6.791	6.790	0.001	91	53846	0.9772	
75 1,1-Dichloropropene	75	6.982	6.982	0.0	89	55172	1.00	
76 Carbon tetrachloride	117	7.000	6.999	0.001	86	47395	0.9873	
72 Isobutyl alcohol	41	7.087	7.086	0.001	46	8244	17.7	
79 Benzene	78	7.243	7.243	0.0	96	101675	0.9684	
78 1,2-Dichloroethane	62	7.261	7.260	0.001	70	25292	1.00	
80 n-Butanol	56	7.992	7.957	0.035	78	7890	33.1	
81 Trichloroethene	95	8.062	8.061	0.001	93	45500	1.04	
85 1,2-Dichloropropane	63	8.375	8.375	0.0	87	36929	0.9810	
87 Dibromomethane	93	8.549	8.549	0.0	84	21577	1.02	
86 1,4-Dioxane	88	8.567	8.549	0.018	3	3802	52.0	
88 Dichlorobromomethane	83	8.741	8.740	0.001	83	52833	0.9668	
91 cis-1,3-Dichloropropene	75	9.333	9.332	0.001	69	47420	0.9717	
92 4-Methyl-2-pentanone (MIBK)	43	9.541	9.541	0.0	91	73234	3.66	
93 Toluene	91	9.820	9.820	0.0	96	119013	0.9752	
95 trans-1,3-Dichloropropene	75	10.133	10.133	0.0	81	34561	0.9703	
96 1,1,2-Trichloroethane	97	10.447	10.429	0.018	68	24204	0.99	
99 Tetrachloroethene	164	10.673	10.673	0.0	96	39228	1.00	
98 1,3-Dichloropropane	76	10.708	10.707	0.001	84	38528	0.99	
97 2-Hexanone	43	10.847	10.829	0.018	93	47054	4.41	
100 Chlorodibromomethane	129	11.091	11.090	0.001	72	36224	0.9832	
102 Ethylene Dibromide	107	11.282	11.282	0.0	79	27912	0.9543	
103 1-Chlorohexane	91	11.909	11.909	0.0	83	56068	1.02	
104 Chlorobenzene	112	11.979	11.961	0.018	79	77548	0.99	
106 1,1,1,2-Tetrachloroethane	131	12.083	12.083	0.0	60	37042	1.03	
105 Ethylbenzene	106	12.101	12.100	0.001	97	39683	0.9741	
107 m-Xylene & p-Xylene	106	12.275	12.257	0.018	0	105007	1.95	
109 o-Xylene	106	12.780	12.779	0.001	93	49122	1.00	
108 Styrene	104	12.797	12.797	0.0	86	72963	0.9466	
110 Bromoform	173	13.058	13.058	0.0	79	23104	0.9629	
111 Isopropylbenzene	105	13.232	13.232	0.0	93	148467	0.9700	
113 Cyclohexanone	55	13.389	13.371	0.018	75	16607	37.4	
114 1,1,2,2-Tetrachloroethane	83	13.598	13.597	0.001	53	31887	1.01	
118 Bromobenzene	156	13.615	13.615	0.0	90	36878	0.9571	
116 1,2,3-Trichloropropane	110	13.650	13.650	0.0	58	6656	0.9691	
117 N-Propylbenzene	120	13.720	13.719	0.001	84	35855	0.9716	
120 2-Chlorotoluene	126	13.842	13.824	0.018	90	30513	1.01	
119 1,3,5-Trimethylbenzene	105	13.929	13.911	0.018	91	110422	0.9652	
121 4-Chlorotoluene	126	13.964	13.946	0.018	96	32653	0.9518	
122 tert-Butylbenzene	119	14.294	14.294	0.0	93	113851	0.9619	
123 1,2,4-Trimethylbenzene	105	14.347	14.346	0.001	93	104748	0.9568	
124 sec-Butylbenzene	134	14.521	14.520	0.001	90	31776	1.00	
126 1,3-Dichlorobenzene	146	14.660	14.659	0.001	82	61014	1.04	
125 4-Isopropyltoluene	119	14.677	14.677	0.0	94	127425	0.9740	
128 1,4-Dichlorobenzene	146	14.747	14.746	0.001	89	77044	0.9784	
129 n-Butylbenzene	91	15.095	15.095	0.0	94	132274	0.9577	
130 1,2-Dichlorobenzene	146	15.147	15.129	0.018	93	56661	1.01	
131 1,2-Dibromo-3-Chloropropane	157	15.913	15.913	0.0	43	5567	0.9653	
132 1,2,4-Trichlorobenzene	180	16.679	16.679	0.0	85	44739	0.99	
133 Hexachlorobutadiene	225	16.819	16.818	0.001	87	38069	1.02	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
134 Naphthalene	128	16.923	16.923	0.0	87	45965	0.9826	
135 1,2,3-Trichlorobenzene	180	17.167	17.166	0.001	69	38226	1.01	
S 139 1,3-Dichloropropene, Total	1				0		1.94	
S 140 1,2-Dichloroethene, Total	1				0		2.01	
S 141 Xylenes, Total	106				0		2.95	
S 136 Trihalomethanes, Total	1				0		3.91	
S 137 Xylenes, Total (URS)	1				0		2.95	
S 138 Total BTEX	1				0		5.87	
S 142 1,2-Dichloroethene, Total (URS)	96				0		2.01	

QC Flag Legend

Processing Flags
1 - Missing Peaks
9 - Failed A Reference Spectral Test

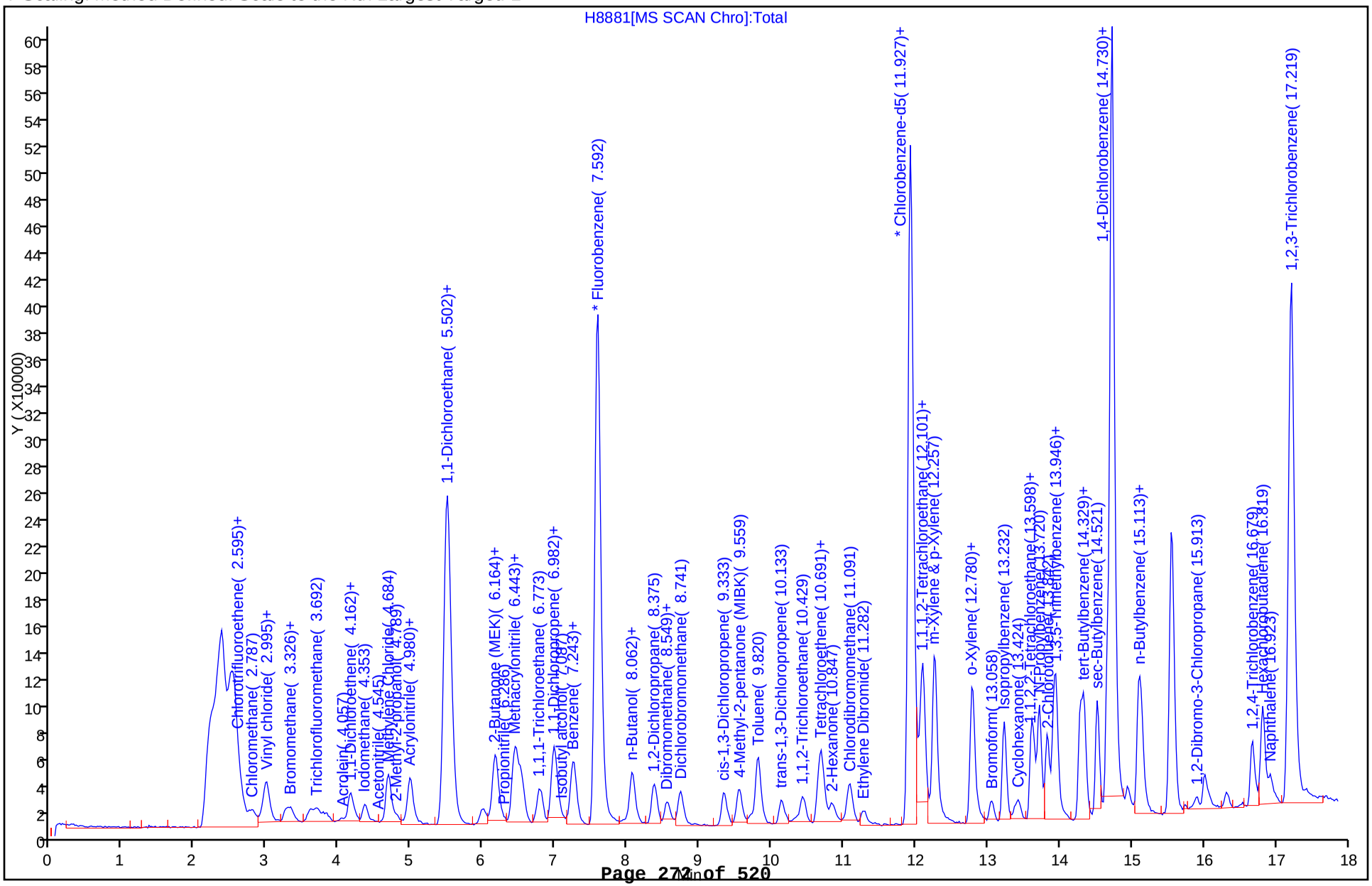
Report Date: 04-Dec-2012 06:01:14 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8881.D

Injection Date:	03-Dec-2012 14:27:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	3
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8882.D		
Lims ID:	std02	Client ID:	
Inject. Date:	03-Dec-2012 14:49:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	std02		
Misc. Info.:			
Operator:	meierg	Instrument ID:	VMS_H
Purge Vol:	20.000 mL	ALS Bottle#:	3
Lims Batch ID:	150224	Lims Sample ID:	4
Sublist:	chrom-AQ_VMSH_8260*sub3		
Detector:	MS SCAN		
Method:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m		
Last Update:	04-Dec-2012 06:01:15	Calib Date:	03-Dec-2012 18:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Limit Group:	MSV - 8260B Water and Solid		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Process Host:	DENPC186		
First Level Reviewer: meierg		Date:	04-Dec-2012 05:45:04

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.593	7.580	0.013	98	1163751	12.5	
* 2 Chlorobenzene-d5	119	11.928	11.915	0.013	90	227404	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.730	14.718	0.012	95	390234	12.5	
24 Chlorotrifluoroethene	116	2.596	2.595	0.001	61	22439	2.40	
25 Dichlorodifluoromethane	85	2.648	2.647	0.001	83	78824	1.62	
28 Chloromethane	50	2.788	2.804	-0.016	82	49109	1.66	
29 Vinyl chloride	62	2.944	2.960	-0.016	75	51639	1.78	
27 2-Chloro-1,1,1-Trifluoroethane	118	2.996	3.012	-0.016	11	82046	2.36	
31 Bromomethane	94	3.275	3.274	0.001	88	46464	1.85	
32 Chloroethane	64	3.345	3.343	0.002	96	34159	1.87	
34 Trichlorofluoromethane	101	3.675	3.691	-0.016	93	105624	1.85	
35 Ethanol	45	3.797	3.813	-0.016	31	18700	0	
41 Acrolein	56	4.058	4.057	0.001	85	20184	17.2	
45 1,1-Dichloroethene	96	4.163	4.161	0.002	96	52187	1.87	
43 Acetone	43	4.215	4.214	0.001	84	25252	8.41	
46 Iodomethane	142	4.354	4.353	0.001	96	94971	1.86	
48 Acetonitrile	41	4.546	4.562	-0.016	71	12861	20.5	
52 Methylene Chloride	84	4.685	4.684	0.001	96	72946	1.60	
51 2-Methyl-2-propanol	59	4.790	4.788	0.002	88	41983	32.8	
53 Acrylonitrile	53	4.964	4.980	-0.016	94	55846	17.4	
55 trans-1,2-Dichloroethene	96	4.999	4.997	0.002	96	68334	1.88	
59 1,1-Dichloroethane	63	5.469	5.467	0.002	79	122614	1.90	
58 Isopropyl ether	87	5.503	5.502	0.001	99	273014	9.34	
60 2-Chloro-1,3-butadiene	53	5.573	5.572	0.001	63	85677	1.84	
63 2-Butanone (MEK)	43	6.165	6.164	0.001	43	45187	6.44	
65 cis-1,2-Dichloroethene	96	6.165	6.164	0.001	70	71935	1.90	
67 2,2-Dichloropropane	77	6.182	6.181	0.001	68	95422	1.90	
66 Propionitrile	54	6.269	6.268	0.001	42	19972	16.6	
68 Methacrylonitrile	41	6.426	6.425	0.001	95	170387	17.9	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
69 Chlorobromomethane	128	6.461	6.477	-0.016	84	29658	1.85	
70 Chloroform	83	6.531	6.529	0.002	92	122797	1.89	
73 1,1,1-Trichloroethane	97	6.792	6.790	0.002	90	108822	1.90	
75 1,1-Dichloropropene	75	6.983	6.982	0.001	89	109734	1.92	
76 Carbon tetrachloride	117	7.001	6.999	0.002	83	96162	1.93	
72 Isobutyl alcohol	41	7.088	7.086	0.002	53	16093	33.2	
79 Benzene	78	7.244	7.243	0.001	97	204810	1.88	
78 1,2-Dichloroethane	62	7.262	7.260	0.002	79	47915	1.83	
80 n-Butanol	56	7.976	7.957	0.019	84	15490	52.3	
81 Trichloroethene	95	8.080	8.061	0.019	93	81678	1.81	
85 1,2-Dichloropropane	63	8.376	8.375	0.001	91	72622	1.86	
87 Dibromomethane	93	8.550	8.549	0.001	88	40221	1.83	
86 1,4-Dioxane	88	8.550	8.549	0.001	10	8693	88.8	
88 Dichlorobromomethane	83	8.742	8.740	0.002	88	104189	1.84	
91 cis-1,3-Dichloropropene	75	9.334	9.332	0.002	79	93791	1.87	
92 4-Methyl-2-pentanone (MIBK)	43	9.542	9.541	0.001	92	139970	6.75	
93 Toluene	91	9.821	9.820	0.001	97	242078	1.91	
95 trans-1,3-Dichloropropene	75	10.134	10.133	0.001	90	67827	1.84	
96 1,1,2-Trichloroethane	97	10.430	10.429	0.001	80	46277	1.83	
99 Tetrachloroethene	164	10.674	10.673	0.001	90	78312	1.94	
98 1,3-Dichloropropane	76	10.709	10.707	0.002	88	73082	1.83	
97 2-Hexanone	43	10.848	10.829	0.019	92	78910	6.48	
100 Chlorodibromomethane	129	11.092	11.090	0.002	83	70183	1.85	
102 Ethylene Dibromide	107	11.283	11.282	0.001	88	53956	1.79	
103 1-Chlorohexane	91	11.910	11.909	0.001	89	111353	1.97	
104 Chlorobenzene	112	11.962	11.961	0.001	78	150911	1.88	
106 1,1,1,2-Tetrachloroethane	131	12.084	12.083	0.001	79	71366	1.92	
105 Ethylbenzene	106	12.102	12.100	0.002	98	80773	1.93	
107 m-Xylene & p-Xylene	106	12.258	12.257	0.001	0	219154	3.95	
109 o-Xylene	106	12.781	12.779	0.002	94	97609	1.93	
108 Styrene	104	12.798	12.797	0.001	92	149932	1.89	
110 Bromoform	173	13.059	13.058	0.001	92	43855	1.78	
111 Isopropylbenzene	105	13.233	13.232	0.001	95	295774	1.93	
113 Cyclohexanone	55	13.373	13.371	0.002	84	31992	70.0	
114 1,1,2,2-Tetrachloroethane	83	13.599	13.597	0.002	68	57003	1.80	
118 Bromobenzene	156	13.616	13.615	0.001	93	72518	1.88	
116 1,2,3-Trichloropropane	110	13.668	13.650	0.018	62	12236	1.78	
117 N-Propylbenzene	120	13.721	13.719	0.002	86	72227	1.96	
120 2-Chlorotoluene	126	13.825	13.824	0.001	91	57114	1.89	
119 1,3,5-Trimethylbenzene	105	13.912	13.911	0.001	85	219290	1.92	
121 4-Chlorotoluene	126	13.947	13.946	0.001	98	67289	1.96	
122 tert-Butylbenzene	119	14.295	14.294	0.001	92	231592	1.96	
123 1,2,4-Trimethylbenzene	105	14.347	14.346	0.001	94	209490	1.91	
124 sec-Butylbenzene	134	14.522	14.520	0.002	92	62975	1.97	
126 1,3-Dichlorobenzene	146	14.661	14.659	0.002	95	106480	1.81	
125 4-Isopropyltoluene	119	14.678	14.677	0.001	93	255607	1.95	
128 1,4-Dichlorobenzene	146	14.748	14.746	0.002	87	157934	2.00	
129 n-Butylbenzene	91	15.096	15.095	0.001	97	267097	1.93	
130 1,2-Dichlorobenzene	146	15.131	15.129	0.002	90	105353	1.87	
131 1,2-Dibromo-3-Chloropropane	157	15.914	15.913	0.001	53	10003	1.73	
132 1,2,4-Trichlorobenzene	180	16.680	16.679	0.001	93	85409	1.89	
133 Hexachlorobutadiene	225	16.820	16.818	0.002	91	74373	2.00	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
134 Naphthalene	128	16.924	16.923	0.001	93	82893	1.77	
135 1,2,3-Trichlorobenzene	180	17.168	17.166	0.002	87	73384	1.94	
S 139 1,3-Dichloropropene, Total	1				0		3.71	
S 140 1,2-Dichloroethene, Total	1				0		3.78	
S 141 Xylenes, Total	106				0		5.88	
S 136 Trihalomethanes, Total	1				0		7.36	
S 137 Xylenes, Total (URS)	1				0		5.88	
S 138 Total BTEX	1				0		11.6	
S 142 1,2-Dichloroethene, Total (URS)	96				0		3.78	

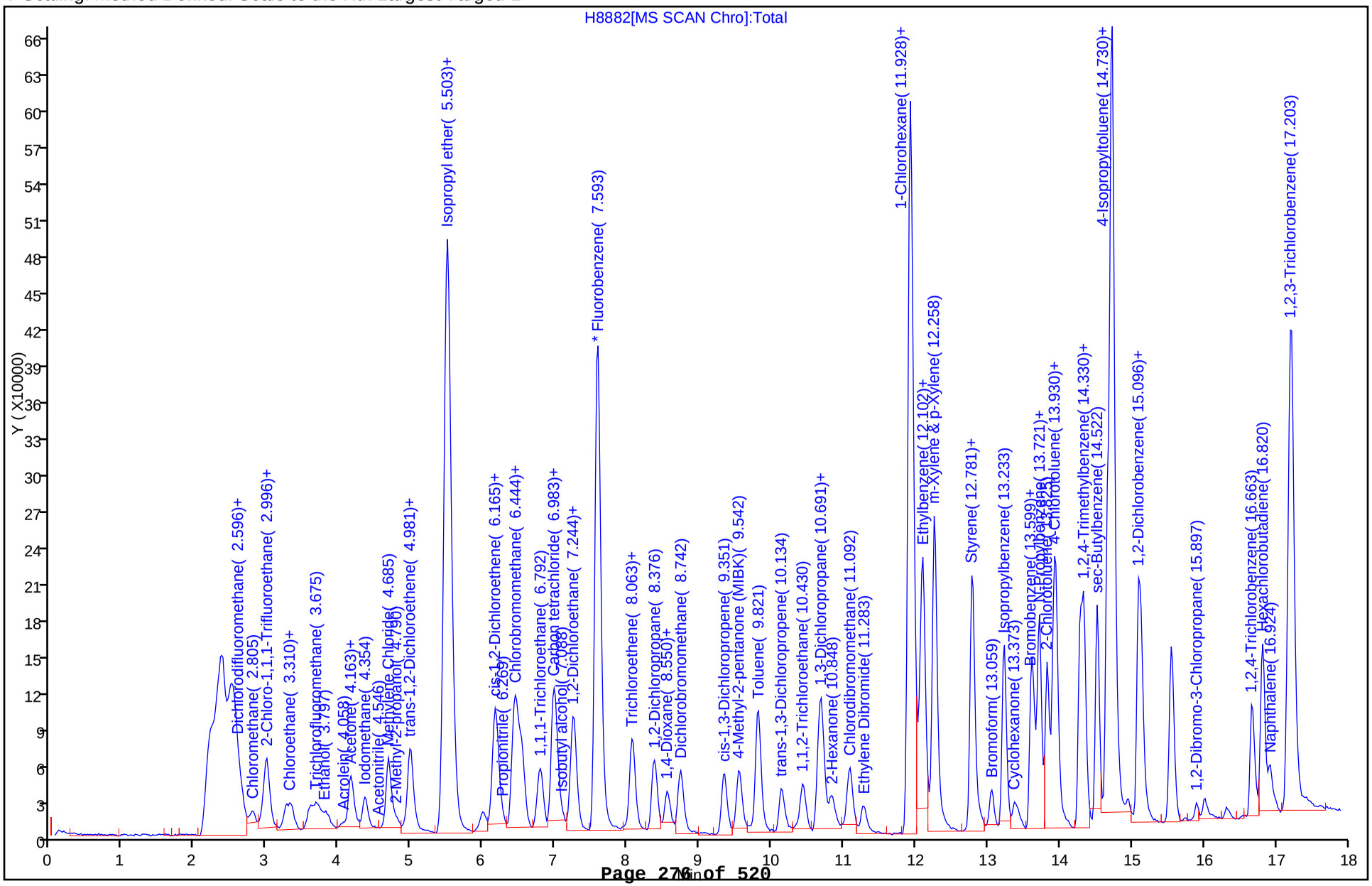
Report Date: 04-Dec-2012 06:01:15 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8882.D

Injection Date:	03-Dec-2012 14:49:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	4
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8883.D		
Lims ID:	std05	Client ID:	
Inject. Date:	03-Dec-2012 15:11:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	std05		
Misc. Info.:			
Operator:	meierg	Instrument ID:	VMS_H
Purge Vol:	20.000 mL	ALS Bottle#:	4
Lims Batch ID:	150224	Lims Sample ID:	5
Sublist:	chrom-AQ_VMSH_8260*sub3		
Detector:	MS SCAN		
Method:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m		
Last Update:	04-Dec-2012 06:01:15	Calib Date:	03-Dec-2012 18:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Limit Group:	MSV - 8260B Water and Solid		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Process Host:	DENPC186		
First Level Reviewer: meierg		Date:	04-Dec-2012 05:45:32

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.592	7.580	0.012	98	1020955	12.5	
* 2 Chlorobenzene-d5	119	11.927	11.915	0.012	88	197325	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.730	14.718	0.012	95	341963	12.5	
24 Chlorotrifluoroethene	116	2.595	2.595	0.0	68	95102	6.53	
25 Dichlorodifluoromethane	85	2.648	2.647	0.001	97	264810	6.20	
28 Chloromethane	50	2.804	2.804	0.0	88	148860	5.73	
29 Vinyl chloride	62	2.961	2.960	0.001	94	148493	5.85	
27 2-Chloro-1,1,1-Trifluoroethane	118	2.996	3.012	-0.016	25	222873	6.52	
31 Bromomethane	94	3.274	3.274	0.0	88	131599	5.97	
32 Chloroethane	64	3.344	3.343	0.001	99	95664	5.95	
34 Trichlorofluoromethane	101	3.692	3.691	0.001	95	286714	5.74	
35 Ethanol	45	3.814	3.813	0.001	28	24188	0	
41 Acrolein	56	4.058	4.057	0.001	85	57142	55.4	
45 1,1-Dichloroethene	96	4.162	4.161	0.001	97	133367	5.44	
43 Acetone	43	4.215	4.214	0.001	90	57968	22.0	
46 Iodomethane	142	4.354	4.353	0.001	96	255298	5.69	
48 Acetonitrile	41	4.580	4.562	0.018	94	27809	50.6	
52 Methylene Chloride	84	4.685	4.684	0.001	95	161782	5.84	
51 2-Methyl-2-propanol	59	4.789	4.788	0.001	97	133376	118.7	
53 Acrylonitrile	53	4.963	4.980	-0.017	98	160324	57.0	
55 trans-1,2-Dichloroethene	96	4.998	4.997	0.001	96	173583	5.43	
59 1,1-Dichloroethane	63	5.468	5.467	0.001	72	325398	5.74	
58 Isopropyl ether	87	5.503	5.502	0.001	99	739112	28.8	
60 2-Chloro-1,3-butadiene	53	5.573	5.572	0.001	67	226607	5.56	
63 2-Butanone (MEK)	43	6.164	6.164	0.0	52	139116	22.6	
65 cis-1,2-Dichloroethene	96	6.164	6.164	0.0	71	187355	5.64	
67 2,2-Dichloropropane	77	6.182	6.181	0.001	78	232950	5.30	
66 Propionitrile	54	6.269	6.268	0.001	95	60940	57.7	
68 Methacrylonitrile	41	6.426	6.425	0.001	95	482986	57.8	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
69 Chlorobromomethane	128	6.460	6.477	-0.017	87	81454	5.80	
70 Chloroform	83	6.530	6.529	0.001	73	321105	5.65	
73 1,1,1-Trichloroethane	97	6.791	6.790	0.001	90	280259	5.59	
75 1,1-Dichloropropene	75	6.983	6.982	0.001	90	279803	5.59	
76 Carbon tetrachloride	117	7.000	6.999	0.001	87	238152	5.45	
72 Isobutyl alcohol	41	7.087	7.086	0.001	69	51175	120.5	
79 Benzene	78	7.244	7.243	0.001	97	537825	5.63	
78 1,2-Dichloroethane	62	7.261	7.260	0.001	90	132933	5.78	
80 n-Butanol	56	7.958	7.957	0.001	84	49583	160.1	
81 Trichloroethene	95	8.062	8.061	0.001	94	221789	5.59	
85 1,2-Dichloropropane	63	8.375	8.375	0.0	91	197225	5.76	
87 Dibromomethane	93	8.550	8.549	0.001	92	108604	5.63	
86 1,4-Dioxane	88	8.567	8.549	0.018	27	28126	269.7	
88 Dichlorobromomethane	83	8.741	8.740	0.001	96	279438	5.62	
91 cis-1,3-Dichloropropene	75	9.333	9.332	0.001	84	253903	5.83	
92 4-Methyl-2-pentanone (MIBK)	43	9.542	9.541	0.001	96	412643	22.7	
93 Toluene	91	9.820	9.820	0.0	98	622424	5.61	
95 trans-1,3-Dichloropropene	75	10.134	10.133	0.001	96	182217	5.62	
96 1,1,2-Trichloroethane	97	10.430	10.429	0.001	86	125962	5.68	
99 Tetrachloroethene	164	10.674	10.673	0.001	94	201596	5.75	
98 1,3-Dichloropropane	76	10.726	10.707	0.019	91	202598	5.84	
97 2-Hexanone	43	10.830	10.829	0.001	96	268801	22.2	
100 Chlorodibromomethane	129	11.091	11.090	0.001	89	186845	5.68	
102 Ethylene Dibromide	107	11.283	11.282	0.001	96	154225	5.91	
103 1-Chlorohexane	91	11.910	11.909	0.001	85	284790	5.80	
104 Chlorobenzene	112	11.962	11.961	0.001	89	405909	5.83	
106 1,1,1,2-Tetrachloroethane	131	12.084	12.083	0.001	90	185016	5.74	
105 Ethylbenzene	106	12.101	12.100	0.001	98	211077	5.81	
107 m-Xylene & p-Xylene	106	12.258	12.257	0.001	0	559526	11.6	
109 o-Xylene	106	12.780	12.779	0.001	92	253622	5.79	
108 Styrene	104	12.798	12.797	0.001	88	405327	5.89	
110 Bromoform	173	13.059	13.058	0.001	96	123931	5.79	
111 Isopropylbenzene	105	13.233	13.232	0.001	95	765365	5.70	
113 Cyclohexanone	55	13.372	13.371	0.001	91	92363	232.8	
114 1,1,2,2-Tetrachloroethane	83	13.598	13.597	0.001	72	157035	5.65	
118 Bromobenzene	156	13.616	13.615	0.001	95	193636	5.73	
116 1,2,3-Trichloropropane	110	13.651	13.650	0.001	56	34843	5.78	
117 N-Propylbenzene	120	13.720	13.719	0.001	87	185939	5.75	
120 2-Chlorotoluene	126	13.825	13.824	0.001	92	147904	5.59	
119 1,3,5-Trimethylbenzene	105	13.912	13.911	0.001	94	556080	5.54	
121 4-Chlorotoluene	126	13.947	13.946	0.001	98	173869	5.78	
122 tert-Butylbenzene	119	14.295	14.294	0.001	94	590425	5.69	
123 1,2,4-Trimethylbenzene	105	14.330	14.346	-0.016	96	544076	5.67	
124 sec-Butylbenzene	134	14.521	14.520	0.001	93	155646	5.57	
126 1,3-Dichlorobenzene	146	14.660	14.659	0.001	90	280591	5.44	
125 4-Isopropyltoluene	119	14.678	14.677	0.001	93	657625	5.73	
128 1,4-Dichlorobenzene	146	14.747	14.746	0.001	90	402577	5.83	
129 n-Butylbenzene	91	15.096	15.095	0.001	97	671739	5.55	
130 1,2-Dichlorobenzene	146	15.130	15.129	0.001	95	283949	5.75	
131 1,2-Dibromo-3-Chloropropane	157	15.896	15.913	-0.017	70	28546	5.64	
132 1,2,4-Trichlorobenzene	180	16.662	16.679	-0.017	94	223206	5.65	
133 Hexachlorobutadiene	225	16.819	16.818	0.001	94	183287	5.62	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
134 Naphthalene	128	16.924	16.923	0.001	95	229634	5.60	
135 1,2,3-Trichlorobenzene	180	17.167	17.166	0.001	89	180585	5.45	
S 139 1,3-Dichloropropene, Total	1				0		11.5	
S 140 1,2-Dichloroethene, Total	1				0		11.1	
S 141 Xylenes, Total	106				0		17.4	
S 136 Trihalomethanes, Total	1				0		22.7	
S 137 Xylenes, Total (URS)	1				0		17.4	
S 138 Total BTEX	1				0		34.5	
S 142 1,2-Dichloroethene, Total (URS)	96				0		11.1	

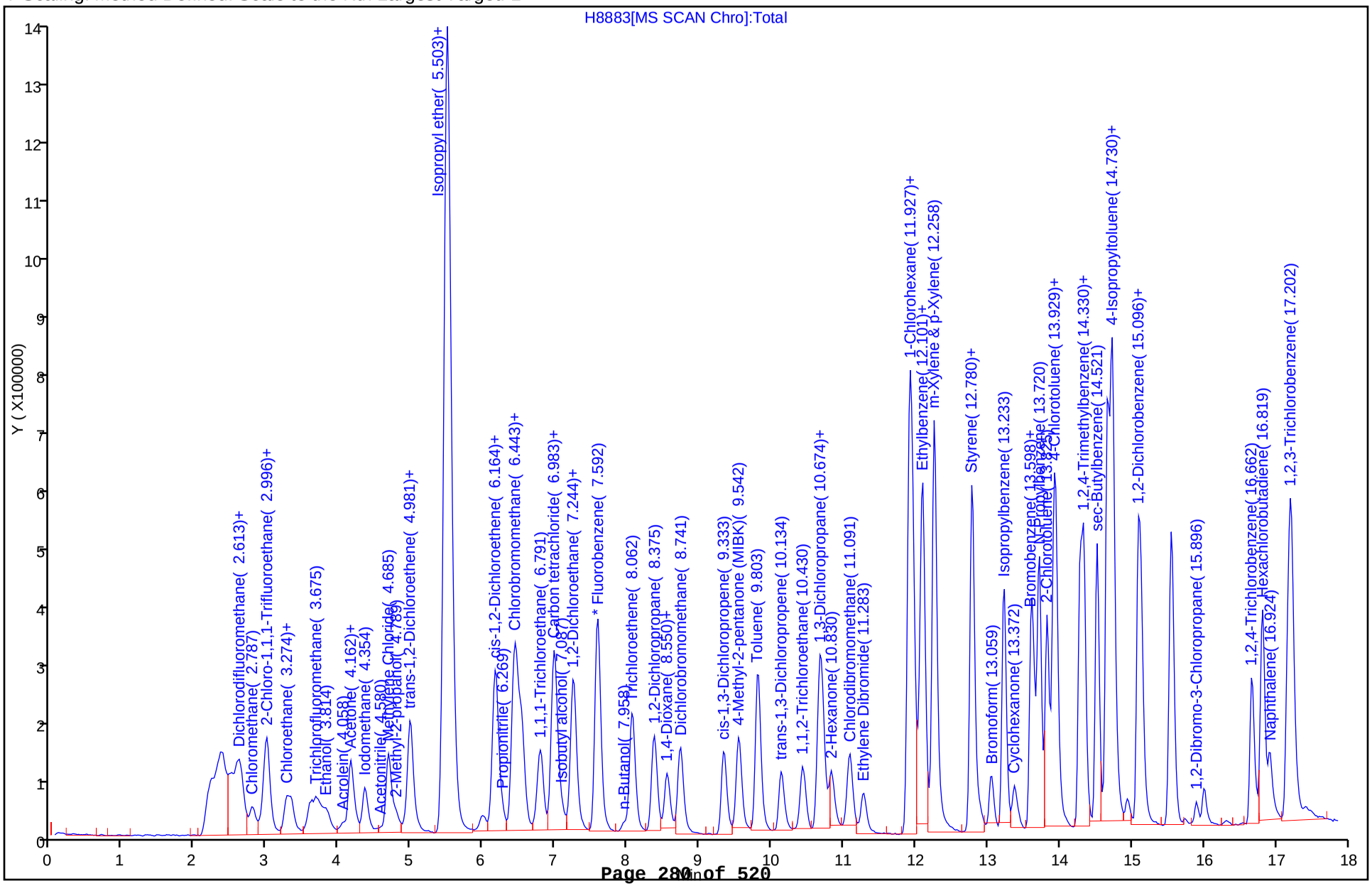
Report Date: 04-Dec-2012 06:01:16 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8883.D

Injection Date:	03-Dec-2012 15:11:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	5
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8884.D
Lims ID: std10 Client ID:
Inject. Date: 03-Dec-2012 15:33:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: std10
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 5
Lims Batch ID: 150224 Lims Sample ID: 6
Sublist: chrom-AQ_VMSH_8260*sub3
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m
Last Update: 04-Dec-2012 06:01:16 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC186

First Level Reviewer: meierg Date: 04-Dec-2012 05:45:56

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.591	7.591	0.0	98	1209828	12.5	
* 2 Chlorobenzene-d5	119	11.926	11.926	0.0	86	236276	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.729	14.729	0.0	93	413923	12.5	
24 Chlorotrifluoroethene	116	2.595	2.595	0.0	81	101306	6.01	
25 Dichlorodifluoromethane	85	2.647	2.647	0.0	99	526388	10.4	
28 Chloromethane	50	2.804	2.804	0.0	88	297947	9.68	
29 Vinyl chloride	62	2.960	2.960	0.0	97	325238	10.8	
27 2-Chloro-1,1,1-Trifluoroethane	118	3.012	3.012	0.0	31	237980	5.92	
31 Bromomethane	94	3.274	3.274	0.0	88	282715	10.8	
32 Chloroethane	64	3.343	3.343	0.0	100	200655	10.5	
34 Trichlorofluoromethane	101	3.691	3.691	0.0	95	620629	10.5	
35 Ethanol	45	3.813	3.813	0.0	31	52836	0	
41 Acrolein	56	4.057	4.057	0.0	96	120467	98.6	
45 1,1-Dichloroethene	96	4.161	4.161	0.0	89	278282	9.57	
43 Acetone	43	4.214	4.214	0.0	91	114224	36.6	
46 Iodomethane	142	4.353	4.353	0.0	96	553854	10.4	
48 Acetonitrile	41	4.562	4.562	0.0	96	71488	109.7	
52 Methylene Chloride	84	4.684	4.684	0.0	99	318084	10.5	
51 2-Methyl-2-propanol	59	4.788	4.788	0.0	97	274062	205.9	
53 Acrylonitrile	53	4.980	4.980	0.0	98	348907	104.7	
55 trans-1,2-Dichloroethene	96	4.997	4.997	0.0	96	375847	9.92	
59 1,1-Dichloroethane	63	5.467	5.467	0.0	72	694338	10.3	
58 Isopropyl ether	87	5.502	5.502	0.0	99	1584865	52.2	
60 2-Chloro-1,3-butadiene	53	5.572	5.572	0.0	85	498873	10.3	
63 2-Butanone (MEK)	43	6.164	6.164	0.0	52	320653	44.0	
65 cis-1,2-Dichloroethene	96	6.164	6.164	0.0	71	395629	10.1	
67 2,2-Dichloropropane	77	6.181	6.181	0.0	75	514510	9.88	
66 Propionitrile	54	6.268	6.268	0.0	78	133462	106.6	
68 Methacrylonitrile	41	6.425	6.425	0.0	94	1025078	103.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
69 Chlorobromomethane	128	6.477	6.477	0.0	86	177545	10.7	
70 Chloroform	83	6.529	6.529	0.0	79	681815	10.1	
73 1,1,1-Trichloroethane	97	6.790	6.790	0.0	92	605864	10.2	
75 1,1-Dichloropropene	75	6.982	6.982	0.0	90	591786	9.98	
76 Carbon tetrachloride	117	6.999	6.999	0.0	82	533181	10.3	
72 Isobutyl alcohol	41	7.086	7.086	0.0	85	111804	222.2	
79 Benzene	78	7.243	7.243	0.0	97	1164040	10.3	
78 1,2-Dichloroethane	62	7.260	7.260	0.0	85	282011	10.3	
80 n-Butanol	56	7.957	7.957	0.0	91	114646	301.4	
81 Trichloroethene	95	8.061	8.061	0.0	98	468955	9.98	
85 1,2-Dichloropropane	63	8.375	8.375	0.0	94	423564	10.4	
87 Dibromomethane	93	8.549	8.549	0.0	95	234183	10.2	
86 1,4-Dioxane	88	8.549	8.549	0.0	29	64787	504.0	
88 Dichlorobromomethane	83	8.740	8.740	0.0	93	597826	10.1	
91 cis-1,3-Dichloropropene	75	9.332	9.332	0.0	89	545108	10.5	
92 4-Methyl-2-pentanone (MIBK)	43	9.541	9.541	0.0	96	928350	43.1	
93 Toluene	91	9.820	9.820	0.0	98	1342865	10.2	
95 trans-1,3-Dichloropropene	75	10.133	10.133	0.0	93	392682	10.2	
96 1,1,2-Trichloroethane	97	10.429	10.429	0.0	90	269347	10.2	
99 Tetrachloroethene	164	10.673	10.673	0.0	91	439217	10.5	
98 1,3-Dichloropropane	76	10.707	10.707	0.0	95	435015	10.5	
97 2-Hexanone	43	10.829	10.829	0.0	96	596912	40.2	
100 Chlorodibromomethane	129	11.090	11.090	0.0	89	406530	10.3	
102 Ethylene Dibromide	107	11.282	11.282	0.0	97	333491	10.7	
103 1-Chlorohexane	91	11.909	11.909	0.0	91	610972	10.4	
104 Chlorobenzene	112	11.961	11.961	0.0	90	872655	10.5	
106 1,1,1,2-Tetrachloroethane	131	12.083	12.083	0.0	87	397699	10.3	
105 Ethylbenzene	106	12.100	12.100	0.0	98	455007	10.5	
107 m-Xylene & p-Xylene	106	12.257	12.257	0.0	0	1209057	21.0	
109 o-Xylene	106	12.779	12.779	0.0	92	552487	10.5	
108 Styrene	104	12.797	12.797	0.0	93	887021	10.8	
110 Bromoform	173	13.058	13.058	0.0	97	272724	10.6	
111 Isopropylbenzene	105	13.232	13.232	0.0	95	1646983	10.1	
113 Cyclohexanone	55	13.371	13.371	0.0	93	211470	445.2	
114 1,1,2,2-Tetrachloroethane	83	13.597	13.597	0.0	76	326881	9.71	
118 Bromobenzene	156	13.615	13.615	0.0	95	420134	10.3	
116 1,2,3-Trichloropropane	110	13.650	13.650	0.0	53	76481	10.5	
117 N-Propylbenzene	120	13.719	13.719	0.0	87	397134	10.1	
120 2-Chlorotoluene	126	13.824	13.824	0.0	93	321164	10.0	
119 1,3,5-Trimethylbenzene	105	13.911	13.911	0.0	93	1234510	10.2	
121 4-Chlorotoluene	126	13.946	13.946	0.0	97	378605	10.4	
122 tert-Butylbenzene	119	14.294	14.294	0.0	93	1278769	10.2	
123 1,2,4-Trimethylbenzene	105	14.346	14.346	0.0	96	1187583	10.2	
124 sec-Butylbenzene	134	14.520	14.520	0.0	92	340661	10.1	
126 1,3-Dichlorobenzene	146	14.659	14.659	0.0	97	610254	9.78	
125 4-Isopropyltoluene	119	14.677	14.677	0.0	91	1428100	10.3	
128 1,4-Dichlorobenzene	146	14.746	14.746	0.0	92	872945	10.4	
129 n-Butylbenzene	91	15.095	15.095	0.0	97	1476649	10.1	
130 1,2-Dichlorobenzene	146	15.129	15.129	0.0	95	610995	10.2	
131 1,2-Dibromo-3-Chloropropane	157	15.913	15.913	0.0	81	63075	10.3	
132 1,2,4-Trichlorobenzene	180	16.679	16.679	0.0	94	499938	10.4	
133 Hexachlorobutadiene	225	16.818	16.818	0.0	92	409870	10.4	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
134 Naphthalene	128	16.923	16.923	0.0	96	536390	10.8	
135 1,2,3-Trichlorobenzene	180	17.166	17.166	0.0	94	416755	10.4	
S 139 1,3-Dichloropropene, Total	1				0		20.7	
S 140 1,2-Dichloroethene, Total	1				0		20.0	
S 141 Xylenes, Total	106				0		31.5	
S 136 Trihalomethanes, Total	1				0		41.2	
S 137 Xylenes, Total (URS)	1				0		31.5	
S 138 Total BTEX	1				0		62.5	
S 142 1,2-Dichloroethene, Total (URS)	96				0		20.0	

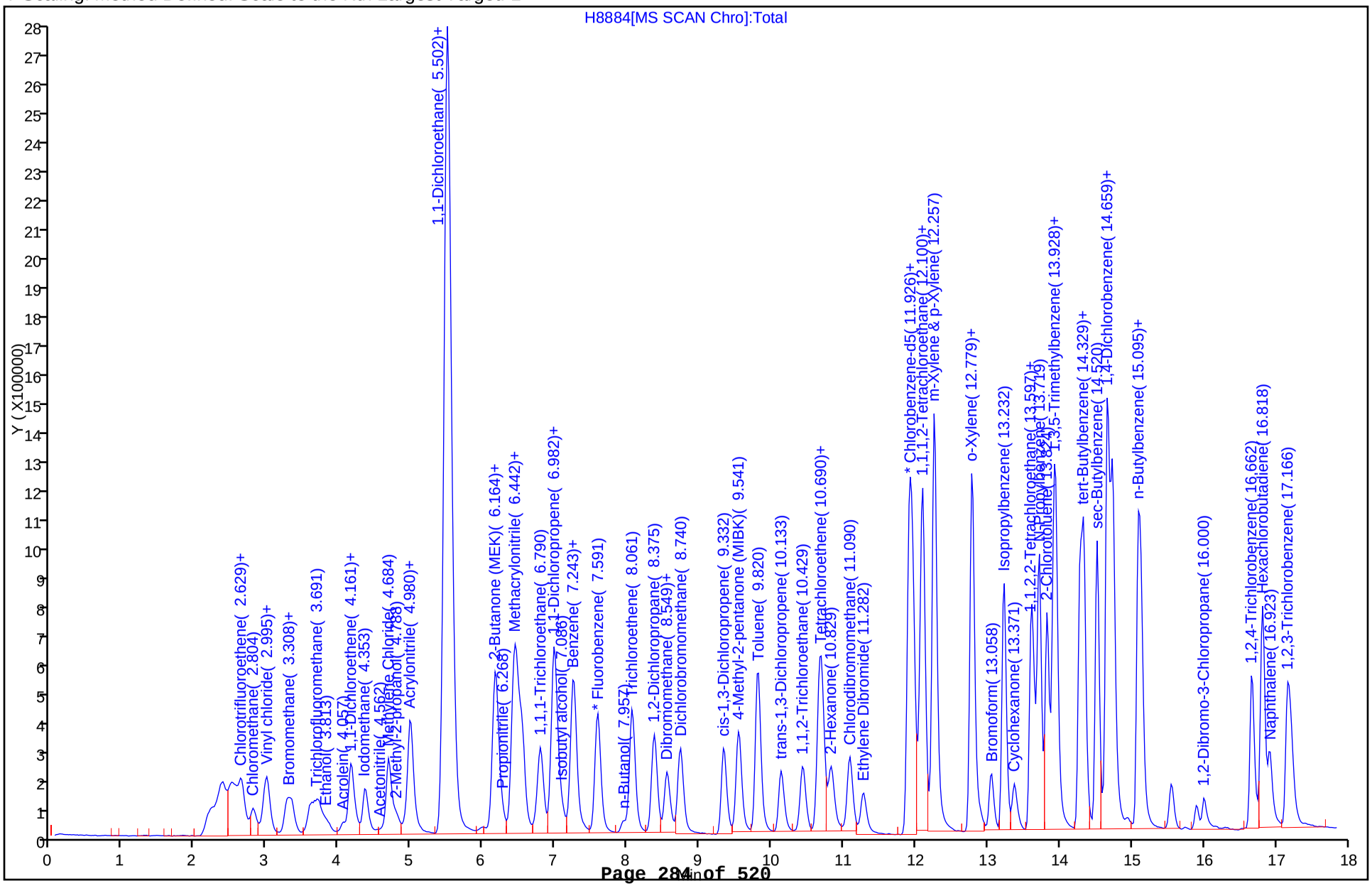
Report Date: 04-Dec-2012 06:01:17 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8884.D

Injection Date:	03-Dec-2012 15:33:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	6
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8885.D
Lims ID: std30 Client ID:
Inject. Date: 03-Dec-2012 15:55:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: std30
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 6
Lims Batch ID: 150224 Lims Sample ID: 7
Sublist: chrom-AQ_VMSH_8260*sub3
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m
Last Update: 04-Dec-2012 06:01:18 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC186

First Level Reviewer: meierg Date: 04-Dec-2012 05:46:22

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.597	7.591	0.006	98	1266512	12.5	
* 2 Chlorobenzene-d5	119	11.932	11.926	0.006	79	244840	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.718	14.729	-0.011	92	410587	12.5	
24 Chlorotrifluoroethene	116	2.600	2.595	0.005	57	680080	31.4	
25 Dichlorodifluoromethane	85	2.635	2.647	-0.012	86	1709292	32.3	
28 Chloromethane	50	2.809	2.804	0.005	87	936985	29.1	
29 Vinyl chloride	62	2.966	2.960	0.006	81	969809	30.8	
27 2-Chloro-1,1,1-Trifluoroethane	118	3.001	3.012	-0.011	24	1409493	31.7	
31 Bromomethane	94	3.279	3.274	0.005	89	764275	28.0	
32 Chloroethane	64	3.349	3.343	0.006	95	551559	27.7	
34 Trichlorofluoromethane	101	3.697	3.691	0.006	87	1820965	29.4	
35 Ethanol	45	3.837	3.813	0.024	6	122763	0	
41 Acrolein	56	4.045	4.057	-0.012	91	351889	275.2	
45 1,1-Dichloroethene	96	4.150	4.161	-0.011	89	817870	26.9	
43 Acetone	43	4.220	4.214	0.006	97	335029	102.5	
46 Iodomethane	142	4.359	4.353	0.006	96	1645210	29.6	
48 Acetonitrile	41	4.568	4.562	0.006	92	196545	288.1	
52 Methylene Chloride	84	4.690	4.684	0.006	95	893512	30.0	
51 2-Methyl-2-propanol	59	4.811	4.788	0.023	98	790537	567.3	
53 Acrylonitrile	53	4.968	4.980	-0.012	99	1042020	298.8	
55 trans-1,2-Dichloroethene	96	4.986	4.997	-0.011	97	1119224	28.2	
59 1,1-Dichloroethane	63	5.473	5.467	0.006	72	2051977	29.2	
58 Isopropyl ether	87	5.508	5.502	0.006	99	4604081	144.8	
60 2-Chloro-1,3-butadiene	53	5.577	5.572	0.005	81	1486191	29.4	
63 2-Butanone (MEK)	43	6.152	6.164	-0.012	95	923033	121.0	
65 cis-1,2-Dichloroethene	96	6.169	6.164	0.005	84	1176939	28.6	
67 2,2-Dichloropropane	77	6.169	6.181	-0.012	78	1508209	27.7	
66 Propionitrile	54	6.256	6.268	-0.012	94	402422	307.0	
68 Methacrylonitrile	41	6.431	6.425	0.006	94	2997041	289.1	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
69 Chlorobromomethane	128	6.465	6.477	-0.012	87	519918	29.8	
70 Chloroform	83	6.535	6.529	0.006	93	2025103	28.7	
73 1,1,1-Trichloroethane	97	6.796	6.790	0.006	90	1796063	28.9	
75 1,1-Dichloropropene	75	6.970	6.982	-0.012	90	1767851	28.5	
76 Carbon tetrachloride	117	7.005	6.999	0.006	86	1592001	29.4	
72 Isobutyl alcohol	41	7.075	7.086	-0.011	75	321542	610.4	
79 Benzene	78	7.249	7.243	0.006	97	3456375	29.2	
78 1,2-Dichloroethane	62	7.266	7.260	0.006	86	816590	28.6	
80 n-Butanol	56	7.945	7.957	-0.012	94	334263	818.5	
81 Trichloroethene	95	8.067	8.061	0.006	94	1383063	28.1	
85 1,2-Dichloropropane	63	8.380	8.375	0.005	94	1257287	29.6	
87 Dibromomethane	93	8.555	8.549	0.006	93	678739	28.4	
86 1,4-Dioxane	88	8.555	8.549	0.006	43	205791	1485.6	
88 Dichlorobromomethane	83	8.729	8.740	-0.011	93	1767889	28.7	
91 cis-1,3-Dichloropropene	75	9.338	9.332	0.006	88	1622129	30.0	
92 4-Methyl-2-pentanone (MIBK)	43	9.547	9.541	0.006	96	2718736	120.5	
93 Toluene	91	9.808	9.820	-0.012	98	3959263	28.8	
95 trans-1,3-Dichloropropene	75	10.139	10.133	0.006	95	1157449	28.8	
96 1,1,2-Trichloroethane	97	10.435	10.429	0.006	89	757648	27.5	
99 Tetrachloroethene	164	10.678	10.673	0.005	91	1304046	30.0	
98 1,3-Dichloropropane	76	10.713	10.707	0.006	95	1288724	29.9	
97 2-Hexanone	43	10.835	10.829	0.006	98	1808096	115.3	
100 Chlorodibromomethane	129	11.096	11.090	0.006	92	1253060	30.7	
102 Ethylene Dibromide	107	11.270	11.282	-0.012	98	985226	30.4	
103 1-Chlorohexane	91	11.915	11.909	0.006	93	1800756	29.5	
104 Chlorobenzene	112	11.967	11.961	0.006	91	2546606	29.5	
106 1,1,1,2-Tetrachloroethane	131	12.089	12.083	0.006	85	1176435	29.4	
105 Ethylbenzene	106	12.106	12.100	0.006	98	1346015	29.8	
107 m-Xylene & p-Xylene	106	12.263	12.257	0.006	0	3504212	58.7	
109 o-Xylene	106	12.785	12.779	0.006	89	1616159	29.8	
108 Styrene	104	12.802	12.797	0.005	90	2595162	30.4	
110 Bromoform	173	13.046	13.058	-0.012	96	814138	30.6	
111 Isopropylbenzene	105	13.220	13.232	-0.012	95	4795549	29.8	
113 Cyclohexanone	55	13.377	13.371	0.006	93	611545	1242.4	
114 1,1,2,2-Tetrachloroethane	83	13.603	13.597	0.006	70	956062	28.6	
118 Bromobenzene	156	13.621	13.615	0.006	94	1219330	30.1	
116 1,2,3-Trichloropropane	110	13.656	13.650	0.006	54	220528	30.5	
117 N-Propylbenzene	120	13.725	13.719	0.006	87	1152920	29.7	
120 2-Chlorotoluene	126	13.830	13.824	0.006	92	945958	29.8	
119 1,3,5-Trimethylbenzene	105	13.917	13.911	0.006	92	3587527	29.8	
121 4-Chlorotoluene	126	13.951	13.946	0.005	98	1064846	29.5	
122 tert-Butylbenzene	119	14.282	14.294	-0.012	93	3687688	29.6	
123 1,2,4-Trimethylbenzene	105	14.335	14.346	-0.012	96	3362236	29.2	
124 sec-Butylbenzene	134	14.526	14.520	0.006	94	981387	29.2	
126 1,3-Dichlorobenzene	146	14.665	14.659	0.006	96	1797778	29.1	
125 4-Isopropyltoluene	119	14.665	14.677	-0.012	95	4037502	29.3	
128 1,4-Dichlorobenzene	146	14.752	14.746	0.006	92	2345754	28.3	
129 n-Butylbenzene	91	15.101	15.095	0.006	98	4191455	28.8	
130 1,2-Dichlorobenzene	146	15.135	15.129	0.006	97	1714172	28.9	
131 1,2-Dibromo-3-Chloropropane	157	15.901	15.913	-0.012	85	180121	29.7	
132 1,2,4-Trichlorobenzene	180	16.667	16.679	-0.012	91	1376551	29.0	
133 Hexachlorobutadiene	225	16.824	16.818	0.006	96	1078867	27.6	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
134 Naphthalene	128	16.929	16.923	0.006	96	1442886	29.3	
135 1,2,3-Trichlorobenzene	180	17.172	17.166	0.006	93	1127067	28.3	
S 139 1,3-Dichloropropene, Total	1				0		58.8	
S 140 1,2-Dichloroethene, Total	1				0		56.8	
S 141 Xylenes, Total	106				0		88.4	
S 136 Trihalomethanes, Total	1				0		118.7	
S 137 Xylenes, Total (URS)	1				0		88.4	
S 138 Total BTEX	1				0		176.2	
S 142 1,2-Dichloroethene, Total (URS)	96				0		56.8	

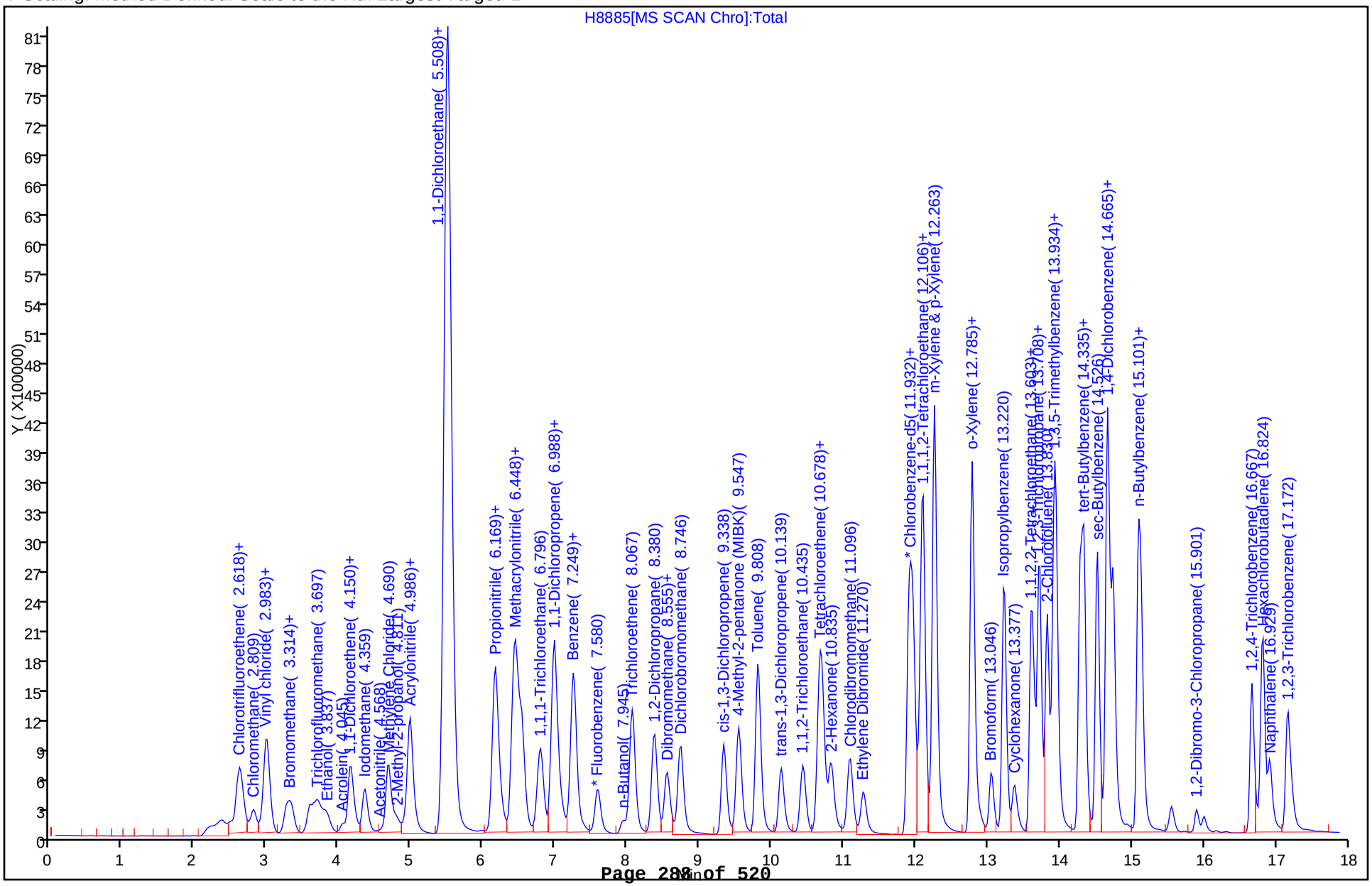
Report Date: 04-Dec-2012 06:01:18 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8885.D

Injection Date:	03-Dec-2012 15:55:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	7
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8886.D
Lims ID: std60 Client ID:
Inject. Date: 03-Dec-2012 16:17:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: std60
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 7
Lims Batch ID: 150224 Lims Sample ID: 8
Sublist: chrom-AQ_VMSH_8260*sub3
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m
Last Update: 04-Dec-2012 06:01:18 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC186

First Level Reviewer: meierg Date: 04-Dec-2012 05:46:56

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.594	7.591	0.003	99	1338446	12.5	
* 2 Chlorobenzene-d5	119	11.929	11.926	0.003	85	256446	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.732	14.729	0.003	86	422971	12.5	
24 Chlorotrifluoroethene	116	2.598	2.595	0.003	70	1399992	59.8	
25 Dichlorodifluoromethane	85	2.633	2.647	-0.014	97	3421483	61.1	
28 Chloromethane	50	2.824	2.804	0.020	99	1925648	56.6	
29 Vinyl chloride	62	2.963	2.960	0.003	81	1941127	58.3	
27 2-Chloro-1,1,1-Trifluoroethane	118	2.998	3.012	-0.014	24	2818457	59.7	
31 Bromomethane	94	3.277	3.274	0.003	89	1441224	49.9	
32 Chloroethane	64	3.346	3.343	0.003	100	1042296	49.5	
34 Trichlorofluoromethane	101	3.695	3.691	0.003	99	3621370	55.3	
35 Ethanol	45	3.851	3.813	0.038	12	322093	0	
41 Acrolein	56	4.060	4.057	0.003	90	779987	577.3	
45 1,1-Dichloroethene	96	4.165	4.161	0.004	89	1604012	49.9	
43 Acetone	43	4.217	4.214	0.003	97	715337	207.1	
46 Iodomethane	142	4.356	4.353	0.003	97	3341796	56.8	
48 Acetonitrile	41	4.582	4.562	0.020	98	390474	541.7	
52 Methylene Chloride	84	4.687	4.684	0.003	95	1824831	59.1	
51 2-Methyl-2-propanol	59	4.809	4.788	0.021	98	1761251	1196.1	
53 Acrylonitrile	53	4.965	4.980	-0.015	99	2296131	623.0	
55 trans-1,2-Dichloroethene	96	4.983	4.997	-0.014	97	2292583	54.7	
59 1,1-Dichloroethane	63	5.470	5.467	0.003	95	4115116	55.4	
58 Isopropyl ether	87	5.505	5.502	0.003	97	9226595	274.5	
60 2-Chloro-1,3-butadiene	53	5.575	5.572	0.003	85	2956021	55.3	
63 2-Butanone (MEK)	43	6.167	6.164	0.003	96	2046771	253.8	
65 cis-1,2-Dichloroethene	96	6.167	6.164	0.003	81	2434773	55.9	
67 2,2-Dichloropropane	77	6.184	6.181	0.003	88	3032064	52.6	
66 Propionitrile	54	6.271	6.268	0.003	98	858936	620.0	
68 Methacrylonitrile	41	6.445	6.425	0.020	95	6488244	592.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
69 Chlorobromomethane	128	6.463	6.477	-0.014	86	1099896	59.7	
70 Chloroform	83	6.532	6.529	0.003	80	4195286	56.3	
73 1,1,1-Trichloroethane	97	6.793	6.790	0.003	92	3706599	56.4	
75 1,1-Dichloropropene	75	6.985	6.982	0.003	90	3609817	55.0	
76 Carbon tetrachloride	117	7.002	6.999	0.003	83	3277487	57.3	
72 Isobutyl alcohol	41	7.089	7.086	0.003	84	711013	1277.2	
79 Benzene	78	7.246	7.243	0.003	97	7116716	56.8	
78 1,2-Dichloroethane	62	7.263	7.260	0.003	85	1743310	57.8	
80 n-Butanol	56	7.942	7.957	-0.015	89	815519	1874.5	
81 Trichloroethene	95	8.064	8.061	0.003	96	2833952	54.5	
85 1,2-Dichloropropane	63	8.378	8.375	0.003	94	2623377	58.4	
87 Dibromomethane	93	8.552	8.549	0.003	93	1458883	57.7	
86 1,4-Dioxane	88	8.552	8.549	0.003	54	440236	2985.2	
88 Dichlorobromomethane	83	8.743	8.740	0.003	93	3775871	57.9	
91 cis-1,3-Dichloropropene	75	9.335	9.332	0.003	90	3430162	60.6	
92 4-Methyl-2-pentanone (MIBK)	43	9.544	9.541	0.003	97	6025935	252.8	
93 Toluene	91	9.823	9.820	0.003	98	8280915	56.9	
95 trans-1,3-Dichloropropene	75	10.136	10.133	0.003	93	2500655	58.9	
96 1,1,2-Trichloroethane	97	10.432	10.429	0.003	85	1665745	57.3	
99 Tetrachloroethene	164	10.676	10.673	0.003	96	2661193	58.4	
98 1,3-Dichloropropane	76	10.711	10.707	0.004	95	2691413	59.7	
97 2-Hexanone	43	10.832	10.829	0.003	97	4021804	243.5	
100 Chlorodibromomethane	129	11.094	11.090	0.004	91	2688607	62.9	
102 Ethylene Dibromide	107	11.285	11.282	0.003	98	2118917	62.5	
103 1-Chlorohexane	91	11.912	11.909	0.003	93	3689570	57.8	
104 Chlorobenzene	112	11.981	11.961	0.020	91	5368030	59.4	
106 1,1,1,2-Tetrachloroethane	131	12.086	12.083	0.003	95	2469102	58.9	
105 Ethylbenzene	106	12.121	12.100	0.021	99	2711578	57.4	
107 m-Xylene & p-Xylene	106	12.260	12.257	0.003	0	7260639	116.0	
109 o-Xylene	106	12.782	12.779	0.003	96	3358903	59.0	
108 Styrene	104	12.800	12.797	0.003	94	5425691	60.7	
110 Bromoform	173	13.061	13.058	0.003	97	1760902	63.3	
111 Isopropylbenzene	105	13.235	13.232	0.003	95	9976661	60.1	
113 Cyclohexanone	55	13.374	13.371	0.003	91	1341157	2601.2	
114 1,1,2,2-Tetrachloroethane	83	13.601	13.597	0.004	79	2018858	58.7	
118 Bromobenzene	156	13.618	13.615	0.003	95	2571227	61.5	
116 1,2,3-Trichloropropane	110	13.653	13.650	0.003	53	461173	61.9	
117 N-Propylbenzene	120	13.722	13.719	0.003	85	2382249	59.5	
120 2-Chlorotoluene	126	13.827	13.824	0.003	92	1944927	59.4	
119 1,3,5-Trimethylbenzene	105	13.931	13.911	0.020	92	7459745	60.1	
121 4-Chlorotoluene	126	13.966	13.946	0.020	98	2228068	59.9	
122 tert-Butylbenzene	119	14.297	14.294	0.003	93	7598297	59.2	
123 1,2,4-Trimethylbenzene	105	14.349	14.346	0.003	97	7048140	59.4	
124 sec-Butylbenzene	134	14.523	14.520	0.003	92	1990916	57.6	
126 1,3-Dichlorobenzene	146	14.663	14.659	0.004	96	4092195	64.2	
125 4-Isopropyltoluene	119	14.680	14.677	0.003	93	8104237	57.1	
128 1,4-Dichlorobenzene	146	14.750	14.746	0.004	93	4556176	53.3	
129 n-Butylbenzene	91	15.098	15.095	0.003	98	8728711	58.3	
130 1,2-Dichlorobenzene	146	15.133	15.129	0.004	94	3538080	57.9	
131 1,2-Dibromo-3-Chloropropane	157	15.899	15.913	-0.014	85	382997	61.2	
132 1,2,4-Trichlorobenzene	180	16.665	16.679	-0.014	92	2879235	58.9	
133 Hexachlorobutadiene	225	16.821	16.818	0.003	94	2152523	53.4	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
134 Naphthalene	128	16.926	16.923	0.003	97	3043708	60.0	
135 1,2,3-Trichlorobenzene	180	17.170	17.166	0.004	94	2324939	56.7	
S 139 1,3-Dichloropropene, Total	1				0		119.5	
S 140 1,2-Dichloroethene, Total	1				0		110.7	
S 141 Xylenes, Total	106				0		175.1	
S 136 Trihalomethanes, Total	1				0		240.4	
S 137 Xylenes, Total (URS)	1				0		175.1	
S 138 Total BTEX	1				0		346.2	
S 142 1,2-Dichloroethene, Total (URS)	96				0		110.7	

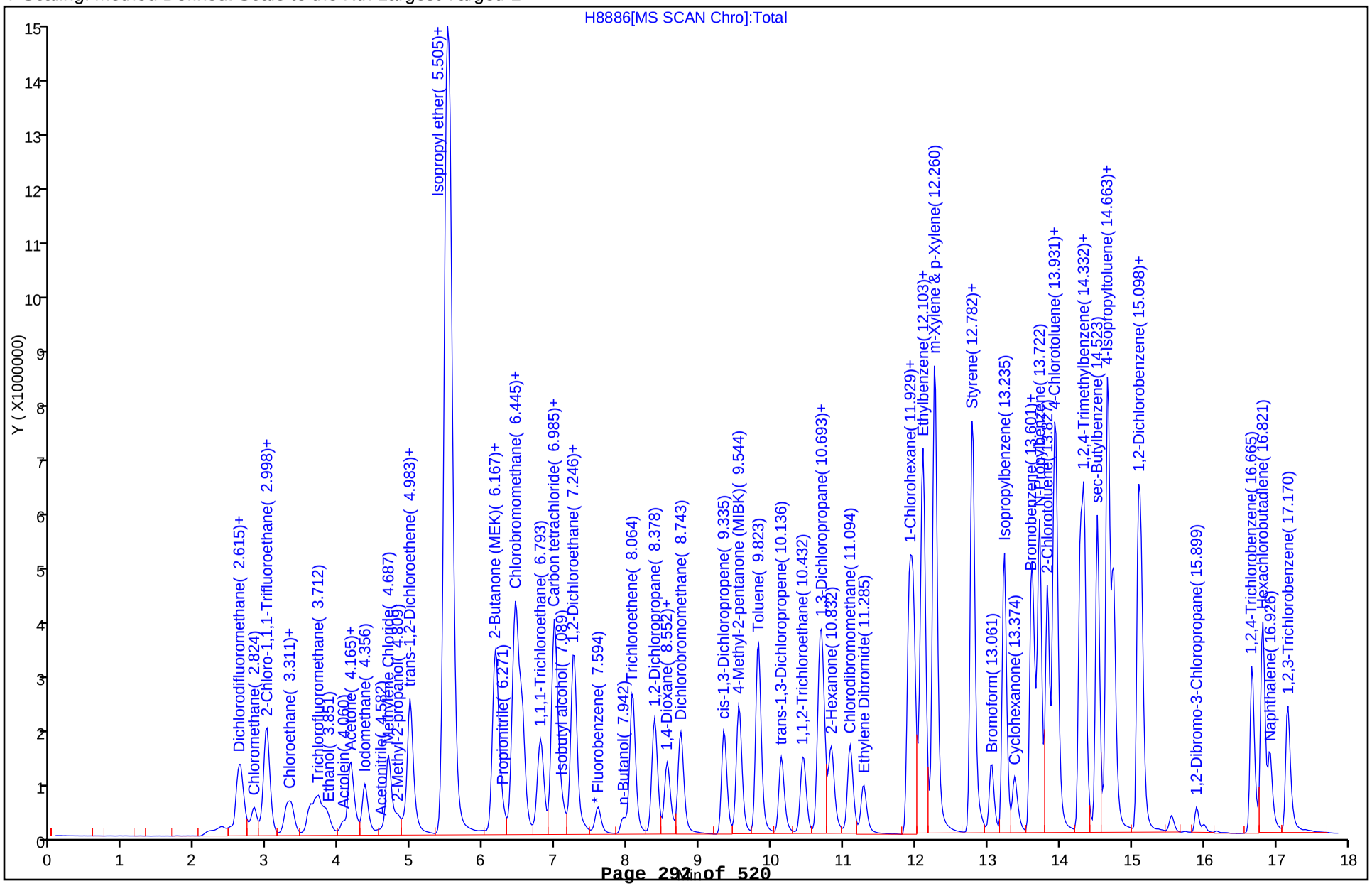
Report Date: 04-Dec-2012 06:01:19 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8886.D

Injection Date:	03-Dec-2012 16:17:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	8
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 16:39 Calibration End Date: 12/03/2012 18:29 Calibration ID: 11821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 280-150224/9	H8887.D
Level 2	STD02 280-150224/10	H8888.D
Level 3	STD05 280-150224/11	H8889.D
Level 4	ICIS 280-150224/12	H8890.D
Level 5	STD30 280-150224/13	H8891.D
Level 6	STD60 280-150224/14	H8892.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.7893 0.5577	0.6082	0.6137	0.6018	0.5325	Ave		0.6172				15.0		15.0			
Ethylene oxide	0.0078 0.0052	0.0066	0.0065	0.0064	0.0053	Ave		0.0063				15.0		15.0			
Dichlorofluoromethane	0.8904 0.6209	0.7078	0.6967	0.6942	0.5978	Ave		0.7013				15.0		15.0			
2-Propanol	+++++ 0.0073	0.0080	0.0084	0.0078	0.0073	Ave		0.0078				5.7		15.0			
Ethyl ether	0.2938 0.2139	0.2383	0.2315	0.2429	0.2093	Ave		0.2383				13.0		15.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.5878 0.3998	0.4580	0.4664	0.4633	0.3971	Ave		0.4620				15.0		15.0			
2,2-Dichloro-1,1,1-trifluoroethane	1.0244 0.6787	0.8193	0.7974	0.7914	0.6789	Lin2	0.3142	0.7015							0.9950		0.9900
Propene oxide	0.0305 0.0210	0.0247	0.0240	0.0240	0.0210	Ave		0.0242				14.0		15.0			
1,1,2-Trichlorotrifluoroethane	0.5361 0.3800	0.4266	0.4309	0.4294	0.3708	Ave		0.4289				14.0		15.0			
Carbon disulfide	1.3379 0.9968	1.0706	1.0766	1.0908	0.9522	Ave		1.0875				12.0		15.0			
Allyl chloride	0.7908 0.5683	0.6363	0.6233	0.6181	0.5338	Ave		0.6284				14.0		15.0			
Methyl acetate	0.1371 0.1145	0.1224	0.1188	0.1186	0.1088	Ave		0.1200				8.0		15.0			
Methyl tert-butyl ether	0.8062 0.6167	0.6382	0.6270	0.6253	0.5787	Ave		0.6487				12.0		15.0			
Hexane	3.7195 2.8034	3.0331	2.9940	3.0479	2.6775	Ave		3.0459				12.0		15.0			
Vinyl acetate	0.5317 0.4683	0.5090	0.4780	0.5078	0.4199	Ave		0.4858				8.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 16:39 Calibration End Date: 12/03/2012 18:29 Calibration ID: 11821

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	1.4328 1.1349	1.1476	1.1320	1.1517	1.0602	Ave		1.1765				11.0		15.0			
Ethyl acetate	0.2581 0.2548	0.2025	0.2509	0.2027	0.2378	Ave		0.2344				11.0		15.0			
sec-Butyl Alcohol	0.0167 0.0155	0.0146	0.0141	0.0143	0.0142	Ave		0.0149				6.9		15.0			
Tetrahydrofuran	0.0596 0.0465	0.0485	0.0449	0.0471	0.0427	Ave		0.0482				12.0		15.0			
Cyclohexane	0.8759 0.6402	0.7027	0.6845	0.6901	0.6100	Ave		0.7006				13.0		15.0			
Tert-amyl methyl ether	1.0091 0.8268	0.8065	0.8248	0.8347	0.7706	Ave		0.8454				9.9		15.0			
2-Pentanone	0.1864 0.1614	0.1467	0.1561	0.1579	0.1511	Ave		0.1599				8.7		15.0			
Methylcyclohexane	0.8191 0.6144	0.6350	0.6497	0.6503	0.5794	Ave		0.6580				13.0		15.0			
Methyl methacrylate	0.0687 0.0590	0.0579	0.0552	0.0549	0.0540	Ave		0.0583				9.4		15.0			
2-Nitropropane	0.0564 0.0445	0.0423	0.0425	0.0442	0.0431	Ave		0.0455				12.0		15.0			
2-Chloroethyl vinyl ether	0.1208 0.1479	0.1324	0.1330	0.1429	0.1381	Ave		0.1358				6.9		15.0			
Ethyl methacrylate	1.8506 1.6685	1.5212	1.5270	1.6350	1.5558	Ave		1.6263				7.7		15.0			
Tetrahydrothiophene	0.5057 0.5164	0.3988	0.4445	0.4845	0.4683	Ave		0.4697				9.2		15.0			
cis-1,4-Dichloro-2-butene	+++++ 0.1285	0.1285	0.1226	0.1279	0.1202	Ave		0.1255				3.1		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1632	0.1603	0.1516	0.1648	0.1466	Ave		0.1573				5.0		15.0			
1,2,3-Trimethylbenzene	4.1098 3.2843	3.4089	3.2236	3.3225	2.9910	Ave		3.3900				11.0		15.0			
Dibromofluoromethane (Surr)	0.6246 0.5722	0.5980	0.5694	0.5727	0.5109	Ave		0.5747				6.6		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2835 0.2422	0.2659	0.2460	0.2482	0.2195	Ave		0.2509				8.7		15.0			
Toluene-d8 (Surr)	6.8558 5.8828	6.4224	5.9823	6.0888	5.2813	Ave		6.0856				8.7		15.0			
4-Bromofluorobenzene (Surr)	2.2626 1.9152	2.2319	1.9652	1.9738	1.7280	Ave		2.0128				10.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 16:39 Calibration End Date: 12/03/2012 18:29 Calibration ID: 11821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 280-150224/9	H8887.D
Level 2	STD02 280-150224/10	H8888.D
Level 3	STD05 280-150224/11	H8889.D
Level 4	ICIS 280-150224/12	H8890.D
Level 5	STD30 280-150224/13	H8891.D
Level 6	STD60 280-150224/14	H8892.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	FB	Ave	80710 3644767	129496	327726	641394	1840474	1.00 60.0	2.00	5.00	10.0	30.0
Ethylene oxide	FB	Ave	99409 4222754	176309	434376	858096	2276626	125 7500	250	625	1250	3750
Dichlorofluoromethane	FB	Ave	91041 4057838	150697	371993	739869	2066425	1.00 60.0	2.00	5.00	10.0	30.0
2-Propanol	FB	Ave	+++++ 959768	33969	89474	165625	506432	+++++ 1200	40.0	100	200	600
Ethyl ether	FB	Ave	30045 1398000	50739	123630	258853	723412	1.00 60.0	2.00	5.00	10.0	30.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	60101 2612519	97512	249038	493776	1372490	1.00 60.0	2.00	5.00	10.0	30.0
2,2-Dichloro-1,1,1-trifluoroethane	FB	Lin2	104744 4435517	174430	425814	843472	2346468	1.00 60.0	2.00	5.00	10.0	30.0
Propene oxide	FB	Ave	156127 6850285	262682	641425	1279176	3636778	50.0 3000	100	250	500	1500
1,1,2-Trichlorotrifluoroethane	FB	Ave	54812 2483419	90830	230065	457627	1281653	1.00 60.0	2.00	5.00	10.0	30.0
Carbon disulfide	FB	Ave	136795 6514496	227947	574891	1162604	3291134	1.00 60.0	2.00	5.00	10.0	30.0
Allyl chloride	FB	Ave	80863 3714292	135479	332805	658762	1844940	1.00 60.0	2.00	5.00	10.0	30.0
Methyl acetate	FB	Ave	70075 3740866	130266	317152	631918	1880465	5.00 300	10.0	25.0	50.0	150
Methyl tert-butyl ether	FB	Ave	82433 4030309	135888	334825	666408	2000435	1.00 60.0	2.00	5.00	10.0	30.0
Hexane	CBZ	Ave	77495 3796375	131103	329317	665265	1908203	1.00 60.0	2.00	5.00	10.0	30.0
Vinyl acetate	FB	Ave	108725 6121641	216760	510449	1082420	2903116	2.00 120	4.00	10.0	20.0	60.0
Tert-butyl ethyl ether	FB	Ave	732497 37084280	1221652	3022338	6137542	18322534	5.00 300	10.0	25.0	50.0	150

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-36712-1 Analy Batch No.: 150224

SDG No.:

Instrument ID: VMS_H GC Column: DB-624 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/03/2012 16:39 Calibration End Date: 12/03/2012 18:29 Calibration ID: 11821

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethyl acetate	FB	Ave	52772 3330140	86214	267959	432017	1644023	2.00 120	4.00	10.0	20.0	60.0
sec-Butyl Alcohol	FB	Ave	52929 3125902	95795	232939	470410	1518516	30.9 1854	61.8	155	309	927
Tetrahydrofuran	FB	Ave	12189 608092	20661	47908	100386	295400	2.00 120	4.00	10.0	20.0	60.0
Cyclohexane	FB	Ave	89562 4183764	149619	365494	735484	2108554	1.00 60.0	2.00	5.00	10.0	30.0
Tert-amyl methyl ether	FB	Ave	515891 27015952	858623	2202047	4448158	13317181	5.00 300	10.0	25.0	50.0	150
2-Pentanone	FB	Ave	76226 4219244	124959	333382	673305	2089256	4.00 240	8.00	20.0	40.0	120
Methylcyclohexane	FB	Ave	83748 4014986	135209	346943	693116	2002748	1.00 60.0	2.00	5.00	10.0	30.0
Methyl methacrylate	FB	Ave	14056 771658	24653	58956	116996	373171	2.00 120	4.00	10.0	20.0	60.0
2-Nitropropane	FB	Ave	5763 290654	9013	22690	47147	148868	1.00 60.0	2.00	5.00	10.0	30.0
2-Chloroethyl vinyl ether	FB	Ave	12356 966417	28186	70998	152280	477420	1.00 60.0	2.00	5.00	10.0	30.0
Ethyl methacrylate	CBZ	Ave	77112 4519033	131503	335927	713757	2217566	2.00 120	4.00	10.0	20.0	60.0
Tetrahydrothiophene	CBZ	Ave	10536 699291	17239	48891	105760	333744	1.00 60.0	2.00	5.00	10.0	30.0
cis-1,4-Dichloro-2-butene	DCB	Ave	+++++ 276730	8558	21632	44803	135604	+++++ 60.0	2.00	5.00	10.0	30.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 351523	10677	26746	57712	165421	+++++ 60.0	2.00	5.00	10.0	30.0
1,2,3-Trimethylbenzene	DCB	Ave	137718 7075387	227051	568594	1163762	3374908	1.00 60.0	2.00	5.00	10.0	30.0
Dibromofluoromethane (Surr)	FB	Ave	63870 3739807	127331	304020	610366	1766049	1.00 60.0	2.00	5.00	10.0	30.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	28992 1582885	56612	131361	264571	758831	1.00 60.0	2.00	5.00	10.0	30.0
Toluene-d8 (Surr)	CBZ	Ave	142839 7966586	277603	658009	1329028	3763842	1.00 60.0	2.00	5.00	10.0	30.0
4-Bromofluorobenzene (Surr)	DCB	Ave	75818 4125952	148655	346638	691352	1949768	1.00 60.0	2.00	5.00	10.0	30.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8887.D
Lims ID: std01 Client ID:
Inject. Date: 03-Dec-2012 16:39:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: std01
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 8
Lims Batch ID: 150224 Lims Sample ID: 9
Sublist: chrom-AQ_VMSH_8260*sub2
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m
Last Update: 04-Dec-2012 06:01:19 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC186

First Level Reviewer: meierg Date: 04-Dec-2012 05:53:29

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.593	7.591	0.002	98	1278118	12.5	
* 2 Chlorobenzene-d5	119	11.928	11.926	0.002	89	260433	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.731	14.729	0.002	95	418867	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.740	6.744	-0.004	53	63870	1.09	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.175	7.162	0.013	90	28992	1.13	
$ 7 Toluene-d8 (Surr)	98	9.717	9.704	0.013	90	142839	1.13	
$ 8 4-Bromofluorobenzene (Surr)	95	13.425	13.412	0.013	83	75818	1.12	
26 1,2-Dichloro-1,1,2,2-tetrafluoro	85	2.788	2.792	-0.004	83	80710	1.28	
30 Ethylene oxide	43	3.223	3.228	-0.005	98	99409	154.4	
33 Dichlorofluoromethane	67	3.571	3.576	-0.005	80	91041	1.27	
37 Ethyl ether	59	3.867	3.872	-0.005	78	30045	1.23	
38 1,2-Dichloro-1,1,2-trifluoroetha	117	3.902	3.907	-0.005	81	60101	1.27	
39 1,1,1-Trifluoro-2,2-dichloroetha	83	3.954	3.959	-0.005	70	104744	1.01	
40 Propene oxide	58	3.972	3.976	-0.004	95	156127	63.1	
42 1,1,2-Trichloro-1,2,2-trifluoroe	151	4.181	4.185	-0.004	82	54812	1.25	
44 Isopropyl alcohol	45		4.342					3
50 Carbon disulfide	76	4.442	4.446	-0.004	98	136795	1.23	
49 3-Chloro-1-propene	41	4.546	4.533	0.013	90	80863	1.26	
47 Methyl acetate	43	4.546	4.551	-0.005	65	70075	5.71	
54 Methyl tert-butyl ether	73	4.982	4.969	0.013	88	82433	1.24	
56 Hexane	57	5.260	5.247	0.013	94	77495	1.22	
57 Vinyl acetate	43	5.486	5.473	0.013	89	108725	2.19	
61 Tert-butyl ethyl ether	59	5.939	5.926	0.013	99	732497	6.09	
62 Ethyl acetate	43	6.218	6.187	0.031	94	52772	2.20	
64 sec-Butyl Alcohol	45	6.374	6.344	0.030	68	52929	34.7	
71 Tetrahydrofuran	42	6.531	6.518	0.013	74	12189	2.47	
74 Cyclohexane	56	6.862	6.849	0.013	95	89562	1.25	
77 Tert-amyl methyl ether	73	7.349	7.354	-0.005	96	515891	5.97	
82 2-Pentanone	43	8.289	8.276	0.013	85	76226	4.66	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Methylcyclohexane	55	8.324	8.311	0.013	91	83748	1.24	
83 Methyl methacrylate	100	8.481	8.468	0.013	73	14056	2.36	
90 2-Nitropropane	41	9.055	9.042	0.013	74	5763	1.24	
89 2-Chloroethyl vinyl ether	63	9.108	9.112	-0.004	59	12356	0.8896	
94 Ethyl methacrylate	69	10.257	10.244	0.013	91	77112	2.28	
101 Tetrahydrothiophene	60	11.075	11.062	0.013	71	10536	1.08	
112 cis-1,4-Dichloro-2-butene	53	13.321	13.308	0.013	0	5601	1.33	
115 trans-1,4-Dichloro-2-butene	53	13.669	13.656	0.013	71	8640	1.64	
127 1,2,3-Trimethylbenzene	105	14.783	14.788	-0.005	90	137718	1.21	

QC Flag Legend

Processing Flags
3 - Failed RT Window Test

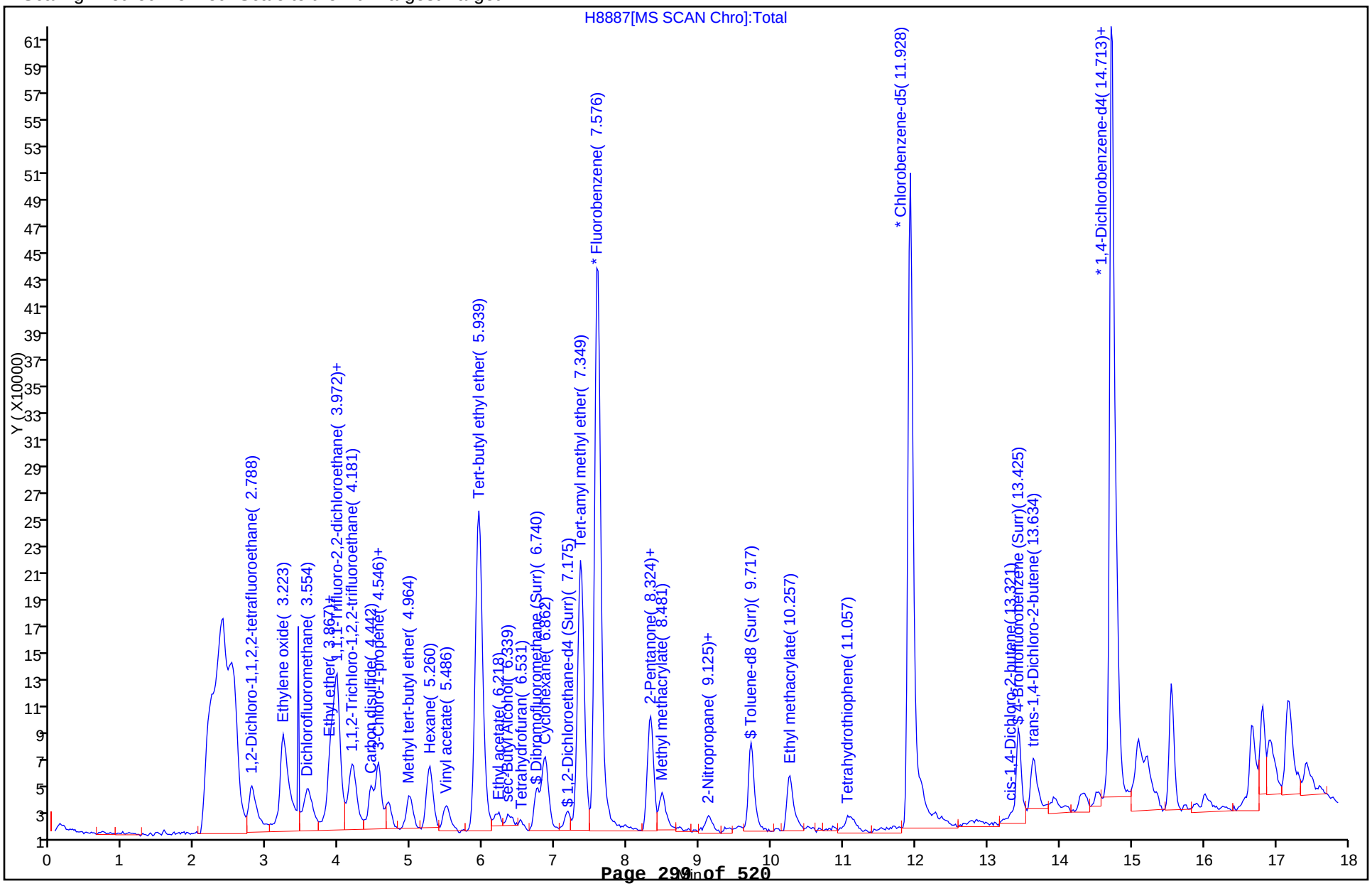
Report Date: 04-Dec-2012 06:01:20 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8887.D

Injection Date:	03-Dec-2012 16:39:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	9
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8888.D		
Lims ID:	std02	Client ID:	
Inject. Date:	03-Dec-2012 17:01:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	std02		
Misc. Info.:			
Operator:	meierg	Instrument ID:	VMS_H
Purge Vol:	20.000 mL	ALS Bottle#:	9
Lims Batch ID:	150224	Lims Sample ID:	10
Sublist:	chrom-AQ_VMSH_8260*sub2		
Detector:	MS SCAN		
Method:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m		
Last Update:	04-Dec-2012 06:01:20	Calib Date:	03-Dec-2012 18:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Limit Group:	MSV - 8260B Water and Solid		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Process Host:	DENPC186		
First Level Reviewer: meierg		Date:	04-Dec-2012 05:53:45

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.580	7.591	-0.011	98	1330711	12.5	
* 2 Chlorobenzene-d5	119	11.932	11.926	0.006	86	270153	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.718	14.729	-0.011	97	416283	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.744	6.744	0.0	68	127331	2.08	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.162	7.162	0.0	95	56612	2.12	
$ 7 Toluene-d8 (Surr)	98	9.721	9.704	0.017	91	277603	2.11	
$ 8 4-Bromofluorobenzene (Surr)	95	13.429	13.412	0.017	85	148655	2.22	
26 1,2-Dichloro-1,1,2,2-tetrafluoro	85	2.792	2.792	0.0	92	129496	1.97	
30 Ethylene oxide	43	3.227	3.228	-0.001	99	176309	263.0	
33 Dichlorofluoromethane	67	3.558	3.576	-0.018	97	150697	2.02	
37 Ethyl ether	59	3.872	3.872	0.0	79	50739	2.00	
38 1,2-Dichloro-1,1,2-trifluoroetha	117	3.906	3.907	-0.001	89	97512	1.98	
39 1,1,1-Trifluoro-2,2-dichloroetha	83	3.959	3.959	0.0	72	174430	1.89	
40 Propene oxide	58	3.976	3.976	0.0	95	262682	101.9	
42 1,1,2-Trichloro-1,2,2-trifluoroe	151	4.185	4.185	0.0	90	90830	1.99	
44 Isopropyl alcohol	45	4.342	4.342	0.0	28	33969	41.1	
50 Carbon disulfide	76	4.446	4.446	0.0	99	227947	1.97	
49 3-Chloro-1-propene	41	4.550	4.533	0.017	92	135479	2.03	
47 Methyl acetate	43	4.550	4.551	-0.001	80	130266	10.2	
54 Methyl tert-butyl ether	73	4.968	4.969	-0.001	90	135888	1.97	
56 Hexane	57	5.264	5.247	0.017	95	131103	1.99	
57 Vinyl acetate	43	5.473	5.473	0.0	89	216760	4.19	
61 Tert-butyl ethyl ether	59	5.926	5.926	0.0	99	1221652	9.75	
62 Ethyl acetate	43	6.204	6.187	0.017	93	86214	3.45	
64 sec-Butyl Alcohol	45	6.361	6.344	0.017	75	95795	60.4	
71 Tetrahydrofuran	42	6.518	6.518	0.0	87	20661	4.02	
74 Cyclohexane	56	6.849	6.849	0.0	94	149619	2.01	
77 Tert-amyl methyl ether	73	7.353	7.354	-0.001	96	858623	9.54	
82 2-Pentanone	43	8.294	8.276	0.018	90	124959	7.34	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Methylcyclohexane	55	8.328	8.311	0.017	92	135209	1.93	
83 Methyl methacrylate	100	8.485	8.468	0.017	79	24653	3.97	
90 2-Nitropropane	41	9.042	9.042	0.0	84	9013	1.86	
89 2-Chloroethyl vinyl ether	63	9.112	9.112	0.0	78	28186	1.95	
94 Ethyl methacrylate	69	10.243	10.244	-0.001	94	131503	3.74	
101 Tetrahydrothiophene	60	11.079	11.062	0.017	79	17239	1.70	
112 cis-1,4-Dichloro-2-butene	53	13.325	13.308	0.017	0	8558	2.05	
115 trans-1,4-Dichloro-2-butene	53	13.656	13.656	0.0	83	10677	2.04	
127 1,2,3-Trimethylbenzene	105	14.787	14.788	-0.001	97	227051	2.01	

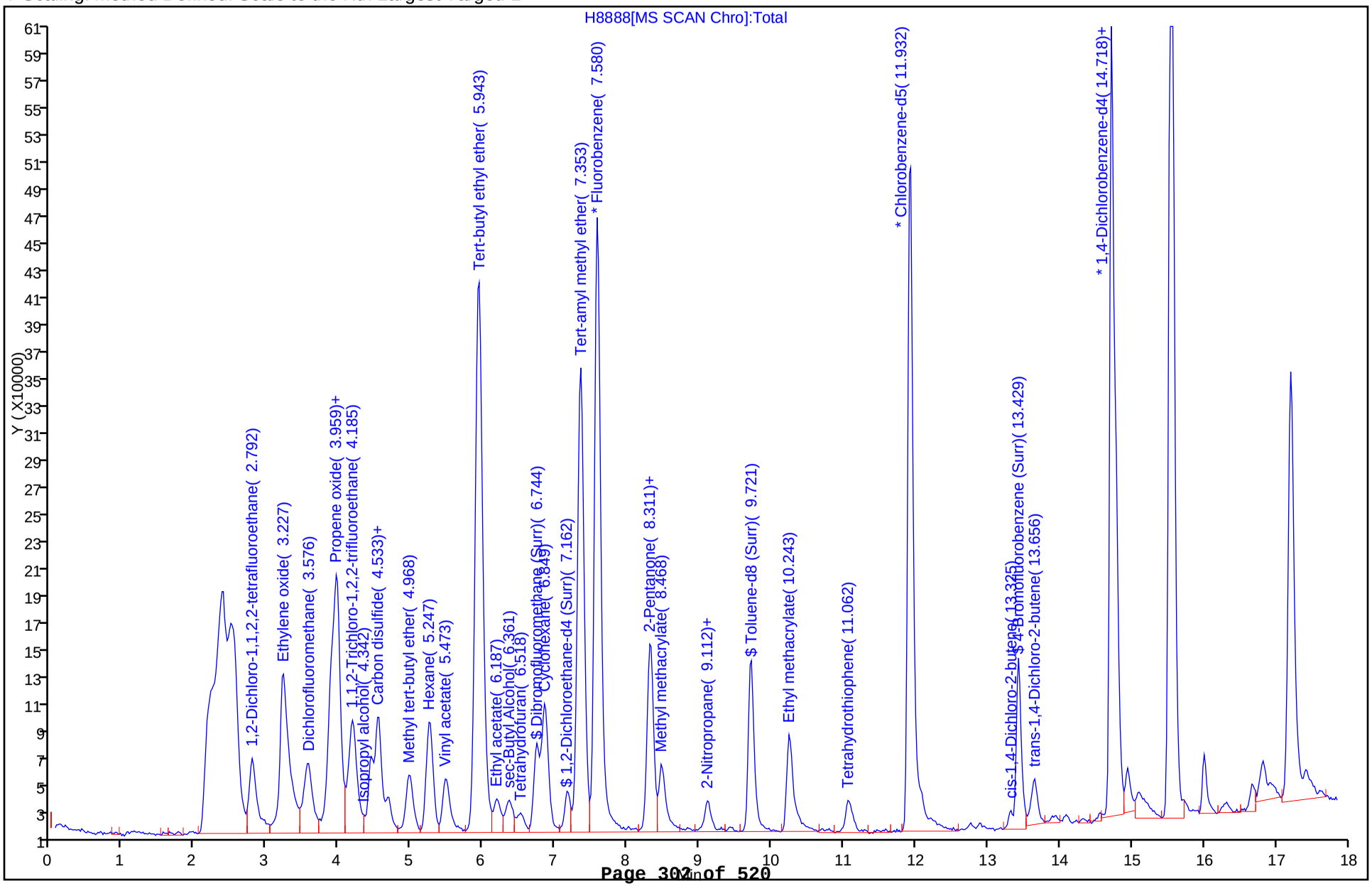
Report Date: 04-Dec-2012 06:01:20 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8888.D

Injection Date:	03-Dec-2012 17:01:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	10
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8889.D		
Lims ID:	std05	Client ID:	
Inject. Date:	03-Dec-2012 17:23:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	std05		
Misc. Info.:			
Operator:	meierg	Instrument ID:	VMS_H
Purge Vol:	20.000 mL	ALS Bottle#:	10
Lims Batch ID:	150224	Lims Sample ID:	11
Sublist:	chrom-AQ_VMSH_8260*sub2		
Detector:	MS SCAN		
Method:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m		
Last Update:	04-Dec-2012 06:01:21	Calib Date:	03-Dec-2012 18:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Limit Group:	MSV - 8260B Water and Solid		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Process Host:	DENPC186		
First Level Reviewer: meierg		Date:	04-Dec-2012 05:54:01

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.575	7.591	-0.016	98	1334934	12.5	
* 2 Chlorobenzene-d5	119	11.927	11.926	0.001	89	274983	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.713	14.729	-0.016	96	440962	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.739	6.744	-0.005	58	304020	4.95	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.174	7.162	0.012	95	131361	4.90	
$ 7 Toluene-d8 (Surr)	98	9.716	9.704	0.012	92	658009	4.92	
$ 8 4-Bromofluorobenzene (Surr)	95	13.424	13.412	0.012	87	346638	4.88	
26 1,2-Dichloro-1,1,2,2-tetrafluoro	85	2.787	2.792	-0.005	91	327726	4.97	
30 Ethylene oxide	43	3.222	3.228	-0.006	98	434376	645.8	
33 Dichlorofluoromethane	67	3.571	3.576	-0.005	97	371993	4.97	
37 Ethyl ether	59	3.867	3.872	-0.005	96	123630	4.86	
38 1,2-Dichloro-1,1,2-trifluoroetha	117	3.901	3.907	-0.006	83	249038	5.05	
39 1,1,1-Trifluoro-2,2-dichloroetha	83	3.954	3.959	-0.005	72	425814	5.24	
40 Propene oxide	58	3.971	3.976	-0.005	95	641425	248.1	
42 1,1,2-Trichloro-1,2,2-trifluoroe	151	4.197	4.185	0.012	85	230065	5.02	
44 Isopropyl alcohol	45	4.337	4.342	-0.005	95	89474	108.0	
50 Carbon disulfide	76	4.441	4.446	-0.005	99	574891	4.95	
49 3-Chloro-1-propene	41	4.546	4.533	0.013	92	332805	4.96	
47 Methyl acetate	43	4.546	4.551	-0.005	89	317152	24.7	
54 Methyl tert-butyl ether	73	4.981	4.969	0.012	92	334825	4.83	
56 Hexane	57	5.259	5.247	0.012	96	329317	4.91	
57 Vinyl acetate	43	5.486	5.473	0.013	90	510449	9.84	
61 Tert-butyl ethyl ether	59	5.938	5.926	0.012	99	3022338	24.1	
62 Ethyl acetate	43	6.182	6.187	-0.005	96	267959	10.7	
64 sec-Butyl Alcohol	45	6.356	6.344	0.012	76	232939	146.4	
71 Tetrahydrofuran	42	6.513	6.518	-0.005	88	47908	9.30	
74 Cyclohexane	56	6.861	6.849	0.012	95	365494	4.89	
77 Tert-amyl methyl ether	73	7.349	7.354	-0.005	96	2202047	24.4	
82 2-Pentanone	43	8.289	8.276	0.013	87	333382	19.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Methylcyclohexane	55	8.323	8.311	0.012	93	346943	4.94	
83 Methyl methacrylate	100	8.480	8.468	0.012	76	58956	9.47	
90 2-Nitropropane	41	9.037	9.042	-0.005	85	22690	4.67	
89 2-Chloroethyl vinyl ether	63	9.124	9.112	0.012	86	70998	4.89	
94 Ethyl methacrylate	69	10.239	10.244	-0.005	96	335927	9.39	
101 Tetrahydrothiophene	60	11.074	11.062	0.012	93	48891	4.73	
112 cis-1,4-Dichloro-2-butene	53	13.320	13.308	0.012	0	21632	4.88	
115 trans-1,4-Dichloro-2-butene	53	13.668	13.656	0.012	87	26746	4.82	
127 1,2,3-Trimethylbenzene	105	14.782	14.788	-0.006	99	568594	4.75	

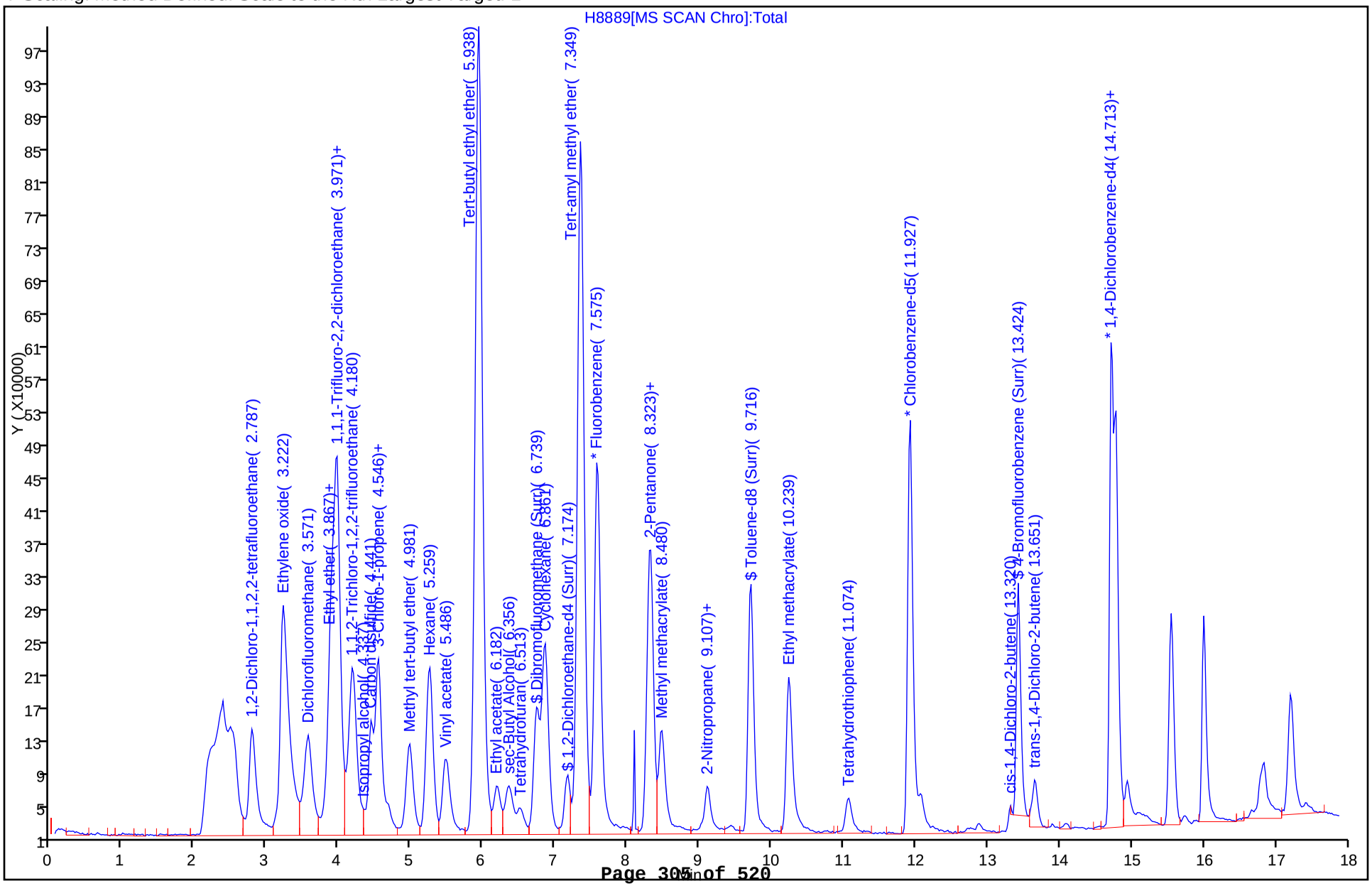
Report Date: 04-Dec-2012 06:01:21 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8889.D

Injection Date:	03-Dec-2012 17:23:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	11
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8890.D		
Lims ID:	icis	Client ID:	
Inject. Date:	03-Dec-2012 17:45:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	5
Sample ID:	icis		
Misc. Info.:			
Operator:	meierg	Instrument ID:	VMS_H
Purge Vol:	20.000 mL	ALS Bottle#:	11
Lims Batch ID:	150224	Lims Sample ID:	12
Sublist:	chrom-AQ_VMSH_8260*sub2		
Detector:	MS SCAN		
Method:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m		
Last Update:	04-Dec-2012 06:01:22	Calib Date:	03-Dec-2012 18:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Limit Group:	MSV - 8260B Water and Solid		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Process Host:	DENPC186		

First Level Reviewer: meierg Date: 04-Dec-2012 05:54:15

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.580	7.580	0.0	98	1332238	12.5	
* 2 Chlorobenzene-d5	119	11.915	11.915	0.0	88	272841	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.718	14.718	0.0	96	437833	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.744	6.744	0.0	80	610366	9.97	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.162	7.162	0.0	95	264571	9.89	
$ 7 Toluene-d8 (Surr)	98	9.704	9.704	0.0	93	1329028	10.0	
$ 8 4-Bromofluorobenzene (Surr)	95	13.412	13.412	0.0	87	691352	9.81	
26 1,2-Dichloro-1,1,2,2-tetrafluoro	85	2.792	2.792	0.0	94	641394	9.75	
30 Ethylene oxide	43	3.228	3.228	0.0	99	858096	1278.3	
33 Dichlorofluoromethane	67	3.576	3.576	0.0	97	739869	9.90	
37 Ethyl ether	59	3.872	3.872	0.0	92	258853	10.2	
38 1,2-Dichloro-1,1,2-trifluoroetha	117	3.907	3.907	0.0	89	493776	10.0	
39 1,1,1-Trifluoro-2,2-dichloroetha	83	3.959	3.959	0.0	78	843472	10.8	
40 Propene oxide	58	3.976	3.976	0.0	96	1279176	495.8	
42 1,1,2-Trichloro-1,2,2-trifluoroe	151	4.185	4.185	0.0	86	457627	10.0	
44 Isopropyl alcohol	45	4.342	4.342	0.0	51	165625	200.3	
50 Carbon disulfide	76	4.446	4.446	0.0	99	1162604	10.0	
49 3-Chloro-1-propene	41	4.533	4.533	0.0	95	658762	9.84	
47 Methyl acetate	43	4.551	4.551	0.0	80	631918	49.4	
54 Methyl tert-butyl ether	73	4.969	4.969	0.0	93	666408	9.64	
56 Hexane	57	5.247	5.247	0.0	96	665265	10.0	
57 Vinyl acetate	43	5.473	5.473	0.0	90	1082420	20.9	
61 Tert-butyl ethyl ether	59	5.926	5.926	0.0	99	6137542	48.9	
62 Ethyl acetate	43	6.187	6.187	0.0	96	432017	17.3	
64 sec-Butyl Alcohol	45	6.344	6.344	0.0	76	470410	296.2	
71 Tetrahydrofuran	42	6.518	6.518	0.0	92	100386	19.5	
74 Cyclohexane	56	6.849	6.849	0.0	95	735484	9.85	
77 Tert-amyl methyl ether	73	7.354	7.354	0.0	96	4448158	49.4	
82 2-Pentanone	43	8.276	8.276	0.0	96	673305	39.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Methylcyclohexane	55	8.311	8.311	0.0	93	693116	9.88	
83 Methyl methacrylate	100	8.468	8.468	0.0	75	116996	18.8	
90 2-Nitropropane	41	9.042	9.042	0.0	93	47147	9.72	
89 2-Chloroethyl vinyl ether	63	9.112	9.112	0.0	88	152280	10.5	
94 Ethyl methacrylate	69	10.244	10.244	0.0	95	713757	20.1	
101 Tetrahydrothiophene	60	11.062	11.062	0.0	96	105760	10.3	
112 cis-1,4-Dichloro-2-butene	53	13.308	13.308	0.0	0	44803	10.2	
115 trans-1,4-Dichloro-2-butene	53	13.656	13.656	0.0	92	57712	10.5	
127 1,2,3-Trimethylbenzene	105	14.788	14.788	0.0	99	1163762	9.80	

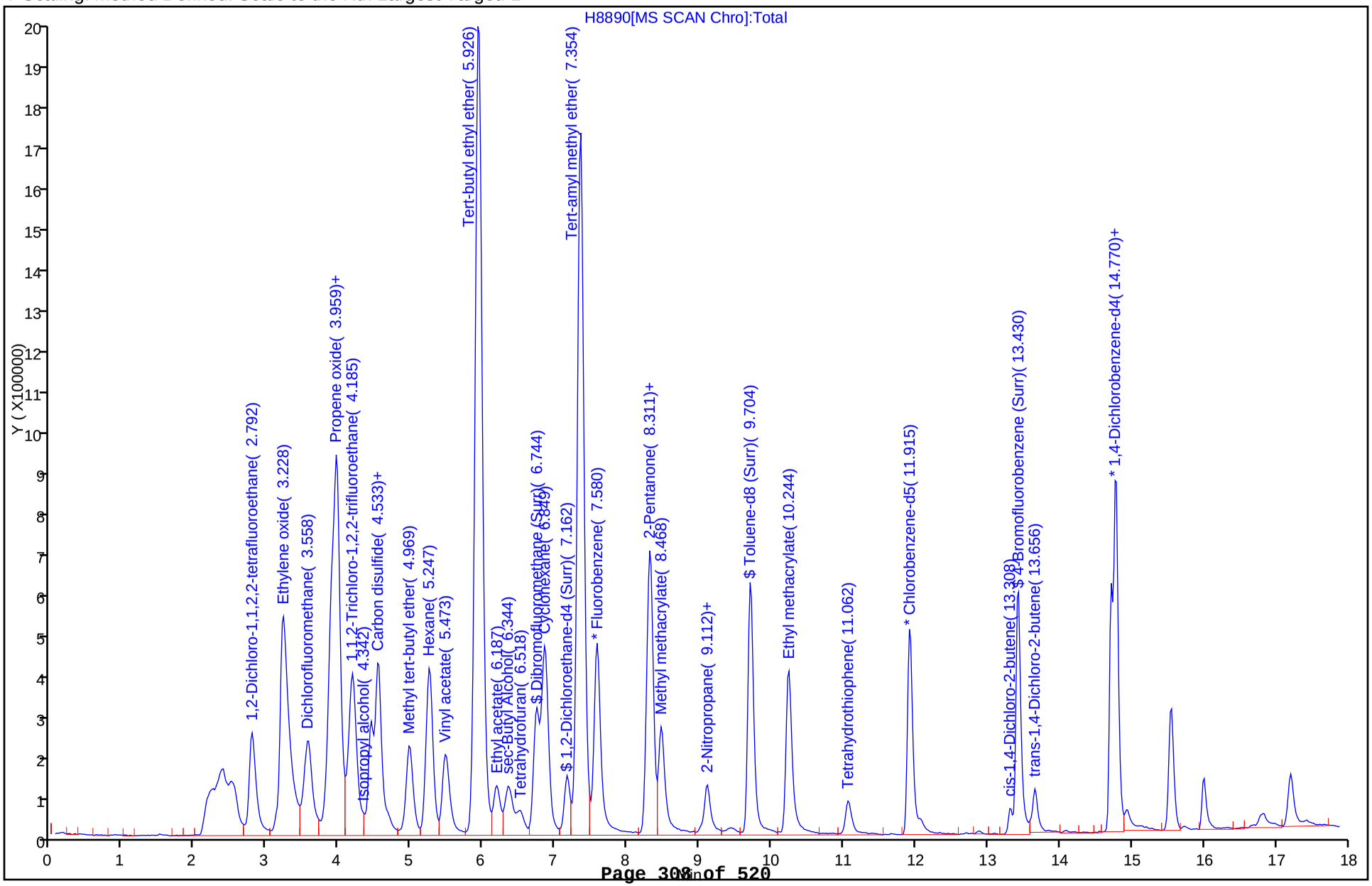
Report Date: 04-Dec-2012 06:01:22 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8890.D

Injection Date:	03-Dec-2012 17:45:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	12
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8891.D
Lims ID: std30 Client ID:
Inject. Date: 03-Dec-2012 18:07:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: std030
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 12
Lims Batch ID: 150224 Lims Sample ID: 13
Sublist: chrom-AQ_VMSH_8260*sub2
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m
Last Update: 04-Dec-2012 06:01:23 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC186

First Level Reviewer: meierg Date: 04-Dec-2012 05:54:29

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.575	7.580	-0.005	98	1440217	12.5	
* 2 Chlorobenzene-d5	119	11.927	11.915	0.012	87	296946	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.713	14.718	-0.005	96	470147	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.739	6.744	-0.005	59	1766049	26.7	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.157	7.162	-0.005	95	758831	26.2	
$ 7 Toluene-d8 (Surr)	98	9.699	9.704	-0.005	93	3763842	26.0	
$ 8 4-Bromofluorobenzene (Surr)	95	13.424	13.412	0.012	87	1949768	25.8	
26 1,2-Dichloro-1,1,2,2-tetrafluoro	85	2.787	2.792	-0.005	93	1840474	25.9	
30 Ethylene oxide	43	3.205	3.228	-0.023	99	2276626	3137.3	
33 Dichlorofluoromethane	67	3.553	3.576	-0.023	82	2066425	25.6	
37 Ethyl ether	59	3.866	3.872	-0.006	89	723412	26.3	
38 1,2-Dichloro-1,1,2-trifluoroetha	117	3.901	3.907	-0.006	84	1372490	25.8	
39 1,1,1-Trifluoro-2,2-dichloroetha	83	3.953	3.959	-0.006	74	2346468	28.6	
40 Propene oxide	58	3.971	3.976	-0.005	96	3636778	1303.9	
42 1,1,2-Trichloro-1,2,2-trifluoroe	151	4.180	4.185	-0.005	86	1281653	25.9	
44 Isopropyl alcohol	45	4.354	4.342	0.012	94	506432	566.5	
50 Carbon disulfide	76	4.424	4.446	-0.022	99	3291134	26.3	
49 3-Chloro-1-propene	41	4.528	4.533	-0.005	94	1844940	25.5	
47 Methyl acetate	43	4.545	4.551	-0.006	97	1880465	136.0	
54 Methyl tert-butyl ether	73	4.981	4.969	0.012	93	2000435	26.8	
56 Hexane	57	5.242	5.247	-0.005	96	1908203	26.4	
57 Vinyl acetate	43	5.468	5.473	-0.005	90	2903116	51.9	
61 Tert-butyl ethyl ether	59	5.938	5.926	0.012	100	18322534	135.2	
62 Ethyl acetate	43	6.182	6.187	-0.005	97	1644023	60.9	
64 sec-Butyl Alcohol	45	6.356	6.344	0.012	76	1518516	884.6	
71 Tetrahydrofuran	42	6.513	6.518	-0.005	91	295400	53.2	
74 Cyclohexane	56	6.843	6.849	-0.006	95	2108554	26.1	
77 Tert-amyl methyl ether	73	7.348	7.354	-0.006	97	13317181	136.7	
82 2-Pentanone	43	8.271	8.276	-0.005	97	2089256	113.4	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Methylcyclohexane	55	8.323	8.311	0.012	93	2002748	26.4	
83 Methyl methacrylate	100	8.463	8.468	-0.005	87	373171	55.6	
90 2-Nitropropane	41	9.037	9.042	-0.005	89	148868	28.4	
89 2-Chloroethyl vinyl ether	63	9.107	9.112	-0.005	86	477420	30.5	
94 Ethyl methacrylate	69	10.238	10.244	-0.006	95	2217566	57.4	
101 Tetrahydrothiophene	60	11.057	11.062	-0.005	96	333744	29.9	
112 cis-1,4-Dichloro-2-butene	53	13.302	13.308	-0.006	0	135604	28.7	
115 trans-1,4-Dichloro-2-butene	53	13.651	13.656	-0.005	94	165421	28.0	
127 1,2,3-Trimethylbenzene	105	14.782	14.788	-0.006	99	3374908	26.5	

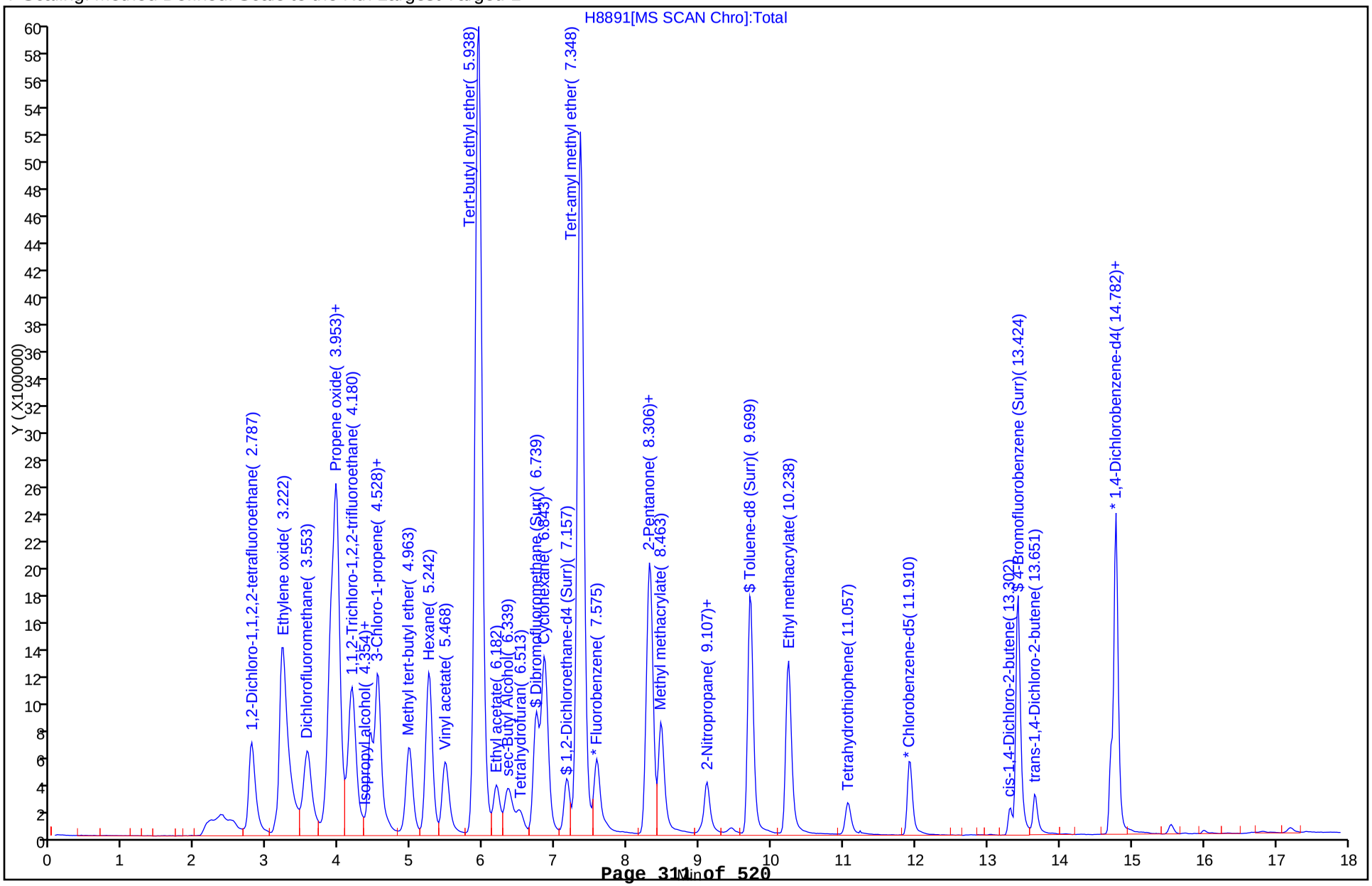
Report Date: 04-Dec-2012 06:01:23 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8891.D

Injection Date:	03-Dec-2012 18:07:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	13
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Lims ID:	std60	Client ID:	
Inject. Date:	03-Dec-2012 18:29:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	std060		
Misc. Info.:			
Operator:	meierg	Instrument ID:	VMS_H
Purge Vol:	20.000 mL	ALS Bottle#:	13
Lims Batch ID:	150224	Lims Sample ID:	14
Sublist:	chrom-AQ_VMSH_8260*sub2		
Detector:	MS SCAN		
Method:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m		
Last Update:	04-Dec-2012 06:01:24	Calib Date:	03-Dec-2012 18:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Limit Group:	MSV - 8260B Water and Solid		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Process Host:	DENPC186		

First Level Reviewer: meierg Date: 04-Dec-2012 05:56:39

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.577	7.580	-0.003	97	1361528	12.5	
* 2 Chlorobenzene-d5	119	11.912	11.915	-0.003	87	282129	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.715	14.718	-0.003	96	448810	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.741	6.744	-0.003	59	3739807	59.7	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.159	7.162	-0.003	94	1582885	57.9	
$ 7 Toluene-d8 (Surr)	98	9.701	9.704	-0.003	93	7966586	58.0	
$ 8 4-Bromofluorobenzene (Surr)	95	13.409	13.412	-0.003	87	4125952	57.1	
26 1,2-Dichloro-1,1,2,2-tetrafluoro	85	2.772	2.792	-0.020	93	3644767	54.2	
30 Ethylene oxide	43	3.207	3.228	-0.021	99	4222754	6155.4	
33 Dichlorofluoromethane	67	3.555	3.576	-0.021	82	4057838	53.1	
37 Ethyl ether	59	3.868	3.872	-0.004	90	1398000	53.9	
38 1,2-Dichloro-1,1,2-trifluoroetha	117	3.886	3.907	-0.021	83	2612519	51.9	
39 1,1,1-Trifluoro-2,2-dichloroetha	83	3.955	3.959	-0.004	70	4435517	57.6	
40 Propene oxide	58	3.973	3.976	-0.003	95	6850285	2597.9	
42 1,1,2-Trichloro-1,2,2-trifluoroe	151	4.182	4.185	-0.003	86	2483419	53.2	
44 Isopropyl alcohol	45	4.356	4.342	0.014	71	959768	1135.7	
50 Carbon disulfide	76	4.426	4.446	-0.020	99	6514496	55.0	
49 3-Chloro-1-propene	41	4.530	4.533	-0.003	93	3714292	54.3	
47 Methyl acetate	43	4.547	4.551	-0.004	91	3740866	286.2	
54 Methyl tert-butyl ether	73	4.983	4.969	0.014	97	4030309	57.0	
56 Hexane	57	5.244	5.247	-0.003	96	3796375	55.2	
57 Vinyl acetate	43	5.470	5.473	-0.003	90	6121641	115.7	
61 Tert-butyl ethyl ether	59	5.940	5.926	0.014	100	37084280	289.4	
62 Ethyl acetate	43	6.184	6.187	-0.003	97	3330140	130.4	
64 sec-Butyl Alcohol	45	6.358	6.344	0.014	76	3125902	1926.1	
71 Tetrahydrofuran	42	6.515	6.518	-0.003	91	608092	115.8	
74 Cyclohexane	56	6.845	6.849	-0.004	95	4183764	54.8	
77 Tert-amyl methyl ether	73	7.350	7.354	-0.004	96	27015952	293.4	
82 2-Pentanone	43	8.273	8.276	-0.003	97	4219244	242.2	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Methylcyclohexane	55	8.308	8.311	-0.003	92	4014986	56.0	
83 Methyl methacrylate	100	8.465	8.468	-0.003	95	771658	121.5	
90 2-Nitropropane	41	9.039	9.042	-0.003	87	290654	58.7	
89 2-Chloroethyl vinyl ether	63	9.109	9.112	-0.003	83	966417	65.3	
94 Ethyl methacrylate	69	10.240	10.244	-0.004	95	4519033	123.1	
101 Tetrahydrothiophene	60	11.059	11.062	-0.003	96	699291	66.0	
112 cis-1,4-Dichloro-2-butene	53	13.304	13.308	-0.004	0	276730	61.4	
115 trans-1,4-Dichloro-2-butene	53	13.653	13.656	-0.003	93	351523	62.2	
127 1,2,3-Trimethylbenzene	105	14.784	14.788	-0.004	99	7075387	58.1	

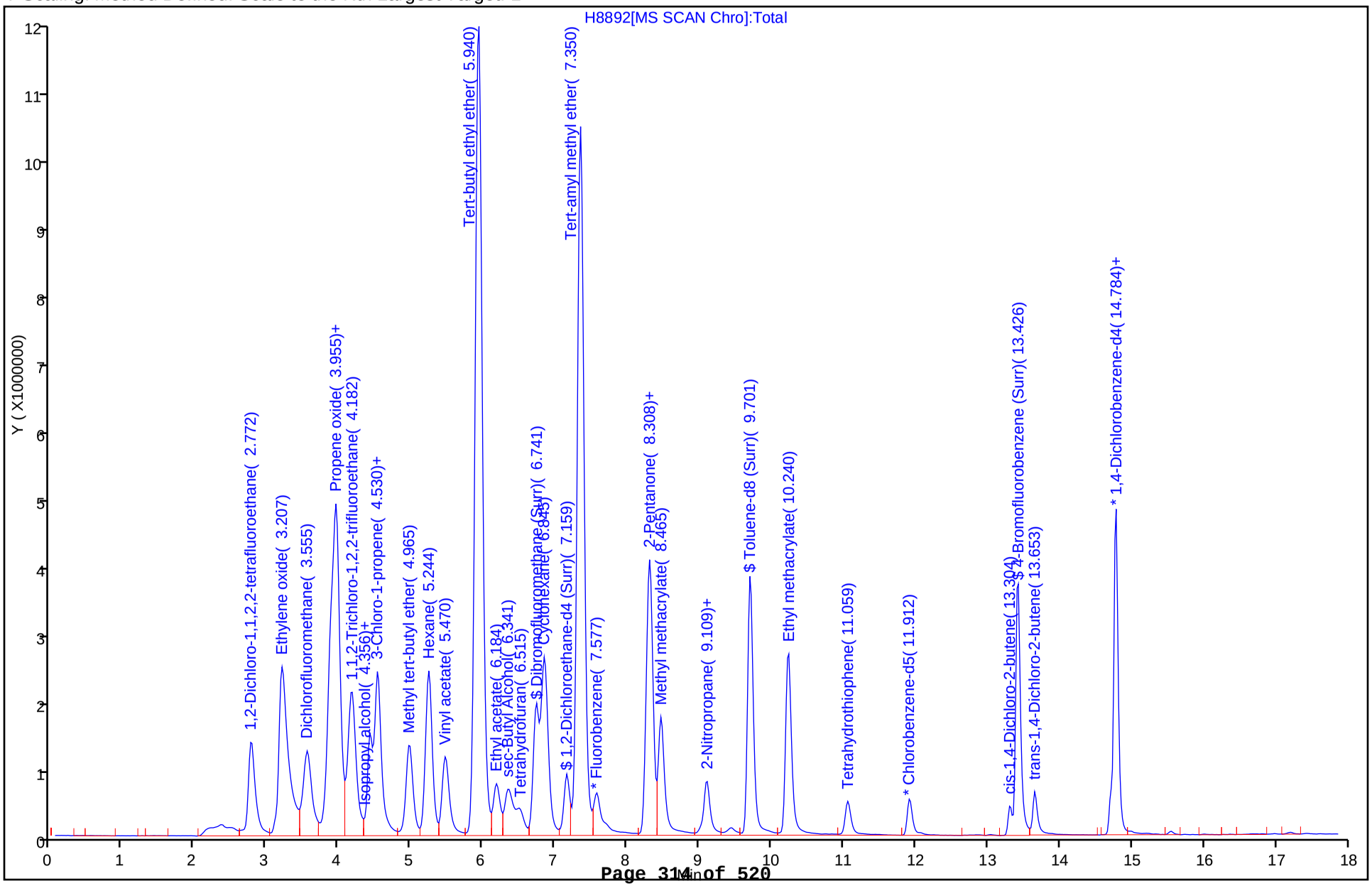
Report Date: 04-Dec-2012 06:01:24 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D

Injection Date:	03-Dec-2012 18:29:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	14
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab Sample ID: ICV 280-150224/16 Calibration Date: 12/03/2012 19:12

Instrument ID: VMS_H Calib Start Date: 12/03/2012 16:39

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 12/03/2012 18:29

Lab File ID: H8894.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.6172	0.6853		11.1	10.0	11.0	50.0
Ethylene oxide	Ave	0.0063	0.0067		1320	1250	5.9	55.0
Dichlorofluoromethane	Ave	0.7013	0.6763		9.64	10.0	-3.6	55.0
Ethyl ether	Ave	0.2383	0.2346		9.84	10.0	-1.6	35.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.4620	0.4289		9.28	10.0	-7.2	55.0
2,2-Dichloro-1,1,1-trifluoroethane	Lin2		0.7626		10.4	10.0	4.2	55.0
Propene oxide	Ave	0.0242	0.0250		516	500	3.3	55.0
1,1,2-Trichlorotrifluoroethane	Ave	0.4289	0.4271		9.96	10.0	-0.4	55.0
2-Propanol	Ave	0.0078	0.0075		194	200	-3.2	55.0
Carbon disulfide	Ave	1.087	1.025		9.42	10.0	-5.8	55.0
Allyl chloride	Ave	0.6284	0.5886		9.37	10.0	-6.3	35.0
Methyl acetate	Ave	0.1200	0.1110		46.2	50.0	-7.5	55.0
Methyl tert-butyl ether	Ave	0.6487	0.5710		8.80	10.0	-12.0	35.0
Hexane	Ave	3.046	2.889		9.49	10.0	-5.1	35.0
Vinyl acetate	Ave	0.4858	0.4052		16.7	20.0	-16.6	55.0
Tert-butyl ethyl ether	Ave	1.177	1.084		46.1	50.0	-7.8	35.0
Ethyl acetate	Ave	0.2344	0.2258		19.3	20.0	-3.7	55.0
sec-Butyl Alcohol	Ave	0.0149	0.0126		255	301	-15.4	55.0
Tetrahydrofuran	Ave	0.0482	0.0403		16.7	20.0	-16.4	55.0
Cyclohexane	Ave	0.7006	0.6525		9.31	10.0	-6.9	35.0
Tert-amyl methyl ether	Ave	0.8454	0.7846		46.4	50.0	-7.2	35.0
2-Pentanone	Ave	0.1599	0.1563		39.1	40.0	-2.3	55.0
Methylcyclohexane	Ave	0.6580	0.5747		8.73	10.0	-12.7	35.0
Methyl methacrylate	Ave	0.0583	0.0546		18.7	20.0	-6.3	35.0
2-Nitropropane	Ave	0.0455	0.0389		8.56	10.0	-14.4	55.0
2-Chloroethyl vinyl ether	Ave	0.1358	0.1432		10.5	10.0	5.4	55.0
Ethyl methacrylate	Ave	1.626	1.474		18.1	20.0	-9.4	35.0
Tetrahydrothiophene	Ave	0.4697	0.5074		10.8	10.0	8.0	55.0
cis-1,4-Dichloro-2-butene	Ave	0.1255	0.1936		15.4	10.0	54.2	55.0
trans-1,4-Dichloro-2-butene	Ave	0.1573	0.1568		9.97	10.0	-0.3	55.0
1,2,3-Trimethylbenzene	Ave	3.390	3.276		9.66	10.0	-3.4	35.0
Dibromofluoromethane (Surr)	Ave	0.5747	0.5318		9.25	10.0	-7.5	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2509	0.2229		8.88	10.0	-11.2	35.0
Toluene-d8 (Surr)	Ave	6.086	5.657		9.30	10.0	-7.0	35.0
4-Bromofluorobenzene (Surr)	Ave	2.013	1.820		9.04	10.0	-9.6	35.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8894.D
Lims ID: icv Client ID:
Inject. Date: 03-Dec-2012 19:12:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 15
Lims Batch ID: 150224 Lims Sample ID: 16
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m
Last Update: 04-Dec-2012 06:01:24 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: RT Order ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC186

First Level Reviewer: meierg Date: 04-Dec-2012 05:59:10

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.578	7.580	-0.002	98	1433299	12.5	
* 2 Chlorobenzene-d5	119	11.913	11.915	-0.003	89	291012	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.715	14.718	-0.003	96	464082	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.742	6.744	-0.002	73	609724	9.25	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.160	7.162	-0.002	95	255585	8.88	
$ 7 Toluene-d8 (Surr)	98	9.701	9.704	-0.003	93	1317098	9.30	
$ 8 4-Bromofluorobenzene (Surr)	95	13.427	13.412	0.015	88	675731	9.04	
26 1,2-Dichloro-1,1,2,2-tetrafluoro	85	2.790	2.792	-0.002	94	785729	11.1	
30 Ethylene oxide	43	3.225	3.228	-0.003	98	955611	1323.2	
33 Dichlorofluoromethane	67	3.573	3.576	-0.003	97	775455	9.64	
37 Ethyl ether	59	3.869	3.872	-0.003	91	268993	9.84	
38 1,2-Dichloro-1,1,2-trifluoroetha	117	3.904	3.907	-0.003	83	491830	9.28	
39 1,1,1-Trifluoro-2,2-dichloroetha	83	3.956	3.959	-0.003	76	874434	10.4	
40 Propene oxide	58	3.974	3.976	-0.002	95	1433532	516.4	
42 1,1,2-Trichloro-1,2,2-trifluoroe	151	4.183	4.185	-0.002	93	489722	9.96	
44 Isopropyl alcohol	45	4.339	4.342	-0.003	60	172276	193.6	
50 Carbon disulfide	76	4.444	4.446	-0.002	99	1174875	9.42	
49 3-Chloro-1-propene	41	4.548	4.533	0.015	94	674912	9.37	
47 Methyl acetate	43	4.548	4.551	-0.003	95	636273	46.2	
54 Methyl tert-butyl ether	73	4.966	4.969	-0.003	93	654674	8.80	
56 Hexane	57	5.245	5.247	-0.002	96	672687	9.49	
57 Vinyl acetate	43	5.471	5.473	-0.002	90	929229	16.7	
61 Tert-butyl ethyl ether	59	5.924	5.926	-0.002	99	6216789	46.1	
62 Ethyl acetate	43	6.185	6.187	-0.002	96	517753	19.3	
64 sec-Butyl Alcohol	45	6.341	6.344	-0.003	76	435477	254.9	
71 Tetrahydrofuran	42	6.516	6.518	-0.002	90	92464	16.7	
74 Cyclohexane	56	6.846	6.849	-0.003	95	748198	9.31	
77 Tert-amyl methyl ether	73	7.351	7.354	-0.003	96	4498018	46.4	
82 2-Pentanone	43	8.274	8.276	-0.002	89	716744	39.1	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Methylcyclohexane	55	8.309	8.311	-0.002	92	659008	8.73	
83 Methyl methacrylate	100	8.465	8.468	-0.003	86	125285	18.7	
90 2-Nitropropane	41	9.040	9.042	-0.002	88	44632	8.56	
89 2-Chloroethyl vinyl ether	63	9.110	9.112	-0.002	87	164217	10.5	
94 Ethyl methacrylate	69	10.241	10.244	-0.003	94	686401	18.1	
101 Tetrahydrothiophene	60	11.059	11.062	-0.003	95	118123	10.8	
112 cis-1,4-Dichloro-2-butene	53	13.305	13.308	-0.003	0	71865	15.4	
115 trans-1,4-Dichloro-2-butene	53	13.653	13.656	-0.003	89	58229	9.97	
127 1,2,3-Trimethylbenzene	105	14.785	14.788	-0.003	99	1216435	9.66	

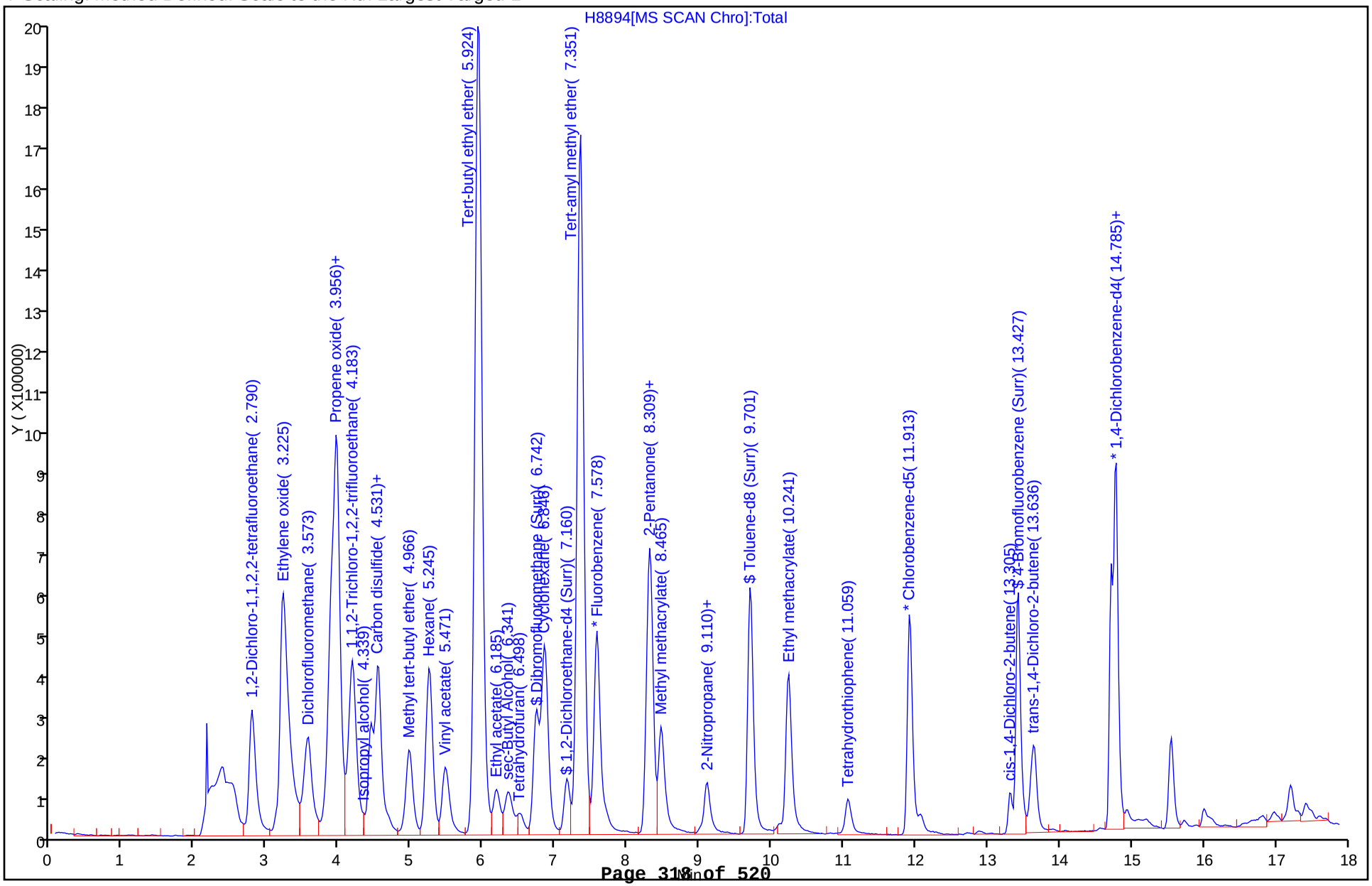
Report Date: 04-Dec-2012 06:01:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8894.D

Injection Date:	03-Dec-2012 19:12:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	16
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab Sample ID: ICV 280-150267/2 Calibration Date: 12/04/2012 08:44

Instrument ID: VMS_H Calib Start Date: 11/13/2012 07:11

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/13/2012 09:23

Lab File ID: H8920.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin		0.0008		94.0	500	-100.0*	55.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121204-7000.b\H8920.D
Lims ID: icv Client ID:
Inject. Date: 04-Dec-2012 08:44:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 4
Lims Batch ID: 150267 Lims Sample ID: 2
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121204-7000.b\AQ_VMSH_8260.m
Last Update: 05-Dec-2012 05:43:58 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC186

First Level Reviewer: meierg Date: 04-Dec-2012 09:24:34

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.610	7.615	-0.005	98	1366137	12.5	
* 2 Chlorobenzene-d5	119	11.945	11.950	-0.005	86	279341	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.731	14.735	-0.004	95	482819	12.5	
24 Chlorotrifluoroethene	116	2.596	2.595	0.001	71	216277	10.2	
25 Dichlorodifluoromethane	85	2.648	2.648	0.0	86	503072	8.80	
28 Chloromethane	50	2.822	2.805	0.017	87	310939	8.95	
29 Vinyl chloride	62	2.979	2.961	0.018	76	313573	9.23	
27 2-Chloro-1,1,1-Trifluoroethane	118	3.014	3.012	0.002	26	485867	10.4	
31 Bromomethane	94	3.293	3.275	0.017	89	245167	8.32	
32 Chloroethane	64	3.362	3.344	0.018	95	182980	8.51	
34 Trichlorofluoromethane	101	3.728	3.710	0.018	88	573791	8.58	
35 Ethanol	45	3.850	3.815	0.035	1	42021	0	
41 Acrolein	56	4.059	4.058	0.001	96	134948	97.8	
45 1,1-Dichloroethene	96	4.180	4.180	0.0	88	334124	10.2	
43 Acetone	43	4.233	4.215	0.018	96	126701	35.9	
46 Iodomethane	142	4.372	4.372	0.0	97	698749	11.6	
48 Acetonitrile	41	4.616	4.563	0.053	94	62458	84.9	
52 Methylene Chloride	84	4.703	4.702	0.001	100	358241	10.4	
51 2-Methyl-2-propanol	59	4.807	4.789	0.018	97	324048	215.6	
53 Acrylonitrile	53	4.981	4.981	0.0	99	384443	102.2	
55 trans-1,2-Dichloroethene	96	4.999	4.998	0.001	99	429799	10.0	
59 1,1-Dichloroethane	63	5.486	5.486	0.0	72	774220	10.2	
58 Isopropyl ether	87	5.521	5.521	0.0	99	1663508	48.5	
60 2-Chloro-1,3-butadiene	53	5.591	5.590	0.001	67	641028	11.7	
67 2,2-Dichloropropane	77	6.200	6.182	0.018	84	619683	10.5	
65 cis-1,2-Dichloroethene	96	6.182	6.182	0.0	72	428338	9.64	
63 2-Butanone (MEK)	43	6.182	6.182	0.0	52	339633	41.3	
66 Propionitrile	54	6.287	6.287	0.0	92	142943	101.1	
68 Methacrylonitrile	41	6.444	6.443	0.001	95	1056434	94.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
69 Chlorobromomethane	128	6.478	6.478	0.0	87	198421	10.6	
70 Chloroform	83	6.548	6.548	0.0	93	771096	10.1	
73 1,1,1-Trichloroethane	97	6.809	6.809	0.0	92	686310	10.2	
75 1,1-Dichloropropene	75	7.001	7.000	0.001	90	653171	9.75	
76 Carbon tetrachloride	117	7.018	7.018	0.0	84	604667	10.3	
72 Isobutyl alcohol	41	7.105	7.105	0.0	93	136574	240.4	
79 Benzene	78	7.262	7.262	0.0	97	1306025	10.2	
78 1,2-Dichloroethane	62	7.279	7.279	0.0	84	310400	10.1	
80 n-Butanol	56	7.976	7.975	0.001	87	114782	268.5	
81 Trichloroethene	95	8.080	8.080	0.0	95	514152	9.69	
85 1,2-Dichloropropane	63	8.394	8.393	0.001	94	473381	10.3	
87 Dibromomethane	93	8.568	8.567	0.001	93	255105	9.89	
86 1,4-Dioxane	88	8.585	8.585	0.0	80	71200	491.1	
88 Dichlorobromomethane	83	8.759	8.759	0.0	93	681139	10.2	
91 cis-1,3-Dichloropropene	75	9.351	9.368	-0.017	87	620969	10.1	
92 4-Methyl-2-pentanone (MIBK)	43	9.560	9.560	0.0	96	1008944	41.5	
93 Toluene	91	9.838	9.838	0.0	98	1497783	10.1	
95 trans-1,3-Dichloropropene	75	10.152	10.152	0.0	93	454836	10.5	
96 1,1,2-Trichloroethane	97	10.448	10.465	-0.017	85	282856	9.53	
99 Tetrachloroethene	164	10.692	10.691	0.001	97	502689	10.1	
98 1,3-Dichloropropane	76	10.744	10.744	0.0	93	483253	9.84	
97 2-Hexanone	43	10.848	10.848	0.0	98	681812	38.8	
100 Chlorodibromomethane	129	11.109	11.109	0.0	91	470680	10.1	
102 Ethylene Dibromide	107	11.301	11.301	0.0	97	369305	10.0	
103 1-Chlorohexane	91	11.928	11.927	0.001	91	694281	9.98	
104 Chlorobenzene	112	11.980	11.980	0.0	90	971775	9.87	
106 1,1,1,2-Tetrachloroethane	131	12.102	12.101	0.001	88	441440	9.67	
105 Ethylbenzene	106	12.119	12.119	0.0	98	509632	9.90	
107 m-Xylene & p-Xylene	106	12.276	12.276	0.0	0	1335213	19.6	
109 o-Xylene	106	12.798	12.798	0.0	96	604749	9.76	
108 Styrene	104	12.816	12.815	0.001	91	974567	10.0	
110 Bromoform	173	13.077	13.076	0.001	96	293546	9.68	
111 Isopropylbenzene	105	13.233	13.251	-0.017	95	1826864	9.64	
113 Cyclohexanone	55	13.390	13.390	0.0	92	139659	248.7	
114 1,1,2,2-Tetrachloroethane	83	13.616	13.616	0.0	77	371300	9.46	
118 Bromobenzene	156	13.634	13.634	0.0	95	462453	9.69	
116 1,2,3-Trichloropropane	110	13.669	13.668	0.001	73	87170	10.2	
117 N-Propylbenzene	120	13.738	13.738	0.0	98	444867	9.74	
120 2-Chlorotoluene	126	13.843	13.842	0.001	93	372132	9.96	
119 1,3,5-Trimethylbenzene	105	13.930	13.929	0.001	93	1340508	9.46	
121 4-Chlorotoluene	126	13.965	13.964	0.001	98	429124	10.1	
122 tert-Butylbenzene	119	14.295	14.295	0.0	93	1450488	9.90	
123 1,2,4-Trimethylbenzene	105	14.348	14.347	0.001	96	1277509	9.42	
124 sec-Butylbenzene	134	14.539	14.539	0.0	94	398087	10.1	
126 1,3-Dichlorobenzene	146	14.661	14.678	-0.017	89	716800	9.85	
125 4-Isopropyltoluene	119	14.678	14.678	0.0	92	1576391	9.73	
128 1,4-Dichlorobenzene	146	14.765	14.765	0.0	85	960305	9.85	
129 n-Butylbenzene	91	15.096	15.113	-0.017	97	1658185	9.70	
130 1,2-Dichlorobenzene	146	15.148	15.148	0.0	96	687408	9.85	
131 1,2-Dibromo-3-Chloropropane	157	15.914	15.914	0.0	81	68984	9.66	
132 1,2,4-Trichlorobenzene	180	16.680	16.680	0.0	94	569079	10.2	
133 Hexachlorobutadiene	225	16.837	16.837	0.0	91	478772	10.4	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
134 Naphthalene	128	16.942	16.941	0.001	94	590208	10.2	
135 1,2,3-Trichlorobenzene	180	17.185	17.185	0.0	93	456602	9.75	
S 136 Trihalomethanes, Total	1				0		40.2	
S 139 1,3-Dichloropropene, Total	1				0		20.6	
S 140 1,2-Dichloroethene, Total	1				0		19.7	
S 141 Xylenes, Total	106				0		29.3	

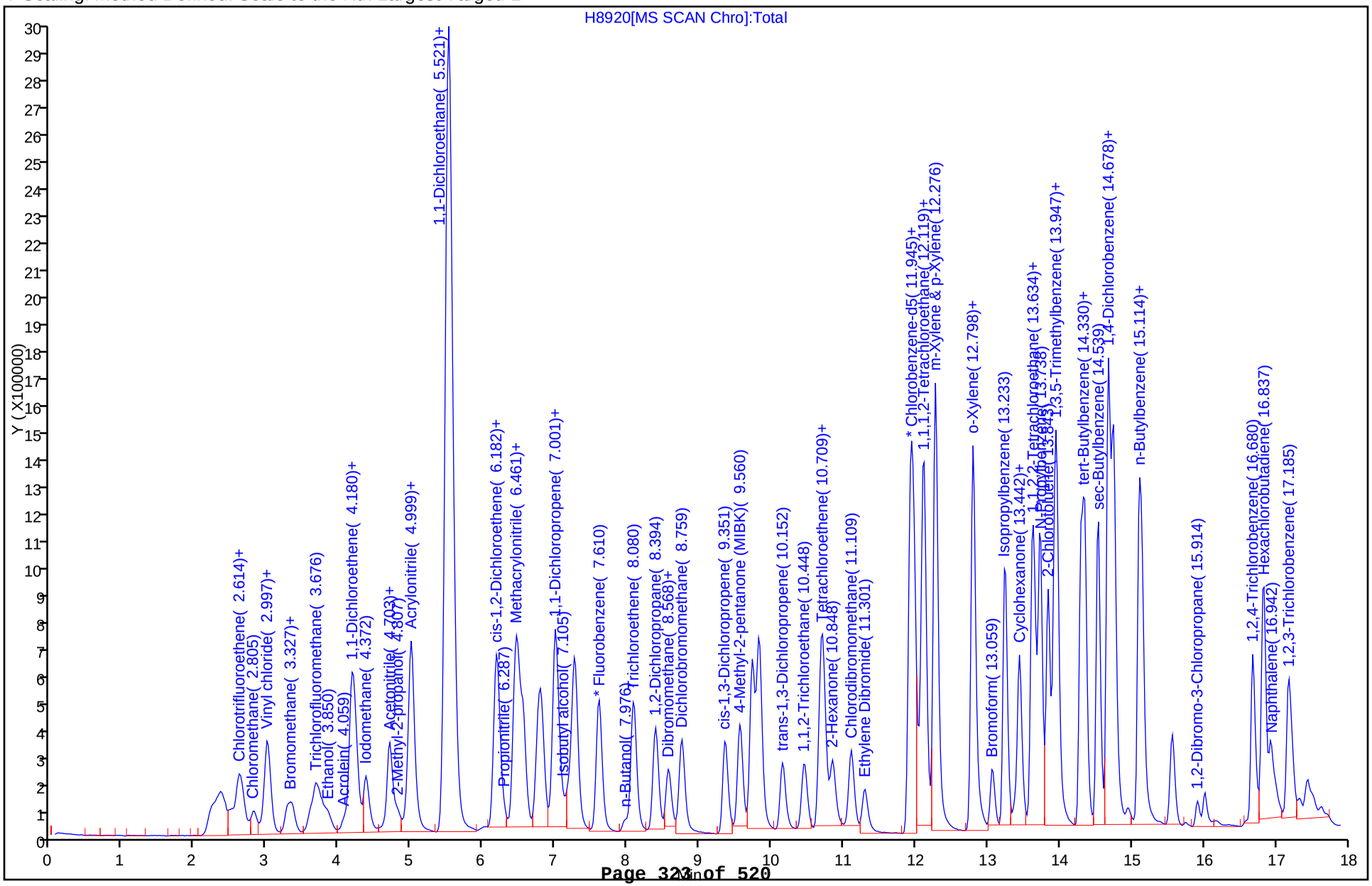
Report Date: 05-Dec-2012 05:44:01 Chrom Revision: 2.0 03-Dec-2012 13:34:40

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121204-7000.b\H8920.D

Injection Date:	04-Dec-2012 08:44:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150267	Lims Sample ID:	2
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab Sample ID: ICV 280-150267/2 Calibration Date: 12/04/2012 08:44

Instrument ID: VMS_H Calib Start Date: 12/03/2012 14:05

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 12/03/2012 16:17

Lab File ID: H8920.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Lin		0.1979		10.2	10.0	1.8	55.0
Dichlorodifluoromethane	Ave	0.5230	0.4603		8.80	10.0	-12.0	55.0
Chloromethane	Ave	0.3179	0.2845	0.1000	8.95	10.0	-10.5	35.0
Vinyl chloride	Ave	0.3110	0.2869		9.23	10.0	-7.7	35.0
2-Chloro-1,1,1-Trifluoroetha ne	Lin		0.4446		10.4	10.0	3.9	55.0
Bromomethane	Ave	0.2697	0.2243		8.32	10.0	-16.8	35.0
Chloroethane	Ave	0.1967	0.1674		8.51	10.0	-14.9	35.0
Trichlorofluoromethane	Ave	0.6120	0.5250		8.58	10.0	-14.2	50.0
Acrolein	Ave	0.0126	0.0124		97.8	100	-2.2	55.0
1,1-Dichloroethene	Ave	0.3004	0.3057		10.2	10.0	1.8	35.0
Acetone	Ave	0.0323	0.0290		35.9	40.0	-10.2	55.0
Iodomethane	Ave	0.5492	0.6394		11.6	10.0	16.4	35.0
Acetonitrile	Ave	0.0067	0.0057		84.9	100	-15.3	55.0
Methylene Chloride	Lin1		0.3278		10.4	10.0	4.2	35.0
Tert-butyl alcohol (2-methyl-2-propanol)	Ave	0.0138	0.0148		216	200	7.8	55.0
Acrylonitrile	Ave	0.0344	0.0352		102	100	2.2	55.0
trans-1,2-Dichloroethene	Ave	0.3913	0.3933		10.0	10.0	0.5	35.0
1,1-Dichloroethane	Ave	0.6936	0.7084	0.1000	10.2	10.0	2.1	35.0
Isopropyl ether	Ave	0.3139	0.3044		48.5	50.0	-3.0	35.0
Chloroprene	Ave	0.4994	0.5865		11.7	10.0	17.4	35.0
2-Butanone (MEK)	Ave	0.0753	0.0777		41.3	40.0	3.2	55.0
cis-1,2-Dichloroethene	Ave	0.4064	0.3919		9.64	10.0	-3.6	35.0
2,2-Dichloropropane	Ave	0.5381	0.5670		10.5	10.0	5.4	35.0
Propionitrile	Ave	0.0129	0.0131		101	100	1.1	55.0
Methacrylonitrile	Ave	0.1023	0.0967		94.5	100	-5.5	55.0
Bromochloromethane	Ave	0.1721	0.1816		10.6	10.0	5.5	35.0
Chloroform	Ave	0.6963	0.7055		10.1	10.0	1.3	35.0
1,1,1-Trichloroethane	Ave	0.6136	0.6280		10.2	10.0	2.3	35.0
1,1-Dichloropropene	Ave	0.6127	0.5976		9.75	10.0	-2.5	35.0
Carbon tetrachloride	Ave	0.5346	0.5533		10.3	10.0	3.5	35.0
Isobutyl alcohol	Ave	0.0052	0.0063		240	200	20.1	55.0
Benzene	Ave	1.169	1.195		10.2	10.0	2.2	35.0
1,2-Dichloroethane	Ave	0.2818	0.2840		10.1	10.0	0.8	35.0
n-Butanol	Lin1		0.0035		269	300	-10.5	55.0
Trichloroethene	Ave	0.4857	0.4704		9.69	10.0	-3.1	35.0
1,2-Dichloropropane	Ave	0.4192	0.4331		10.3	10.0	3.3	35.0
Dibromomethane	Ave	0.2361	0.2334		9.89	10.0	-1.1	35.0
1,4-Dioxane	Lin2		0.0013		491	500	-1.8	55.0
Bromodichloromethane	Ave	0.6086	0.6232		10.2	10.0	2.4	35.0
cis-1,3-Dichloropropene	Ave	2.759	2.779		10.1	10.0	0.7	35.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab Sample ID: ICV 280-150267/2 Calibration Date: 12/04/2012 08:44

Instrument ID: VMS_H Calib Start Date: 12/03/2012 14:05

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 12/03/2012 16:17

Lab File ID: H8920.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Methyl-2-pentanone	Ave	0.2226	0.2308		41.5	40.0	3.7	55.0
Toluene	Ave	1.359	1.370		10.1	10.0	0.8	35.0
trans-1,3-Dichloropropene	Ave	0.3967	0.4162		10.5	10.0	4.9	35.0
1,1,2-Trichloroethane	Ave	0.2717	0.2588		9.53	10.0	-4.7	35.0
Tetrachloroethene	Ave	2.222	2.249		10.1	10.0	1.3	35.0
1,3-Dichloropropane	Ave	2.197	2.162		9.84	10.0	-1.6	35.0
2-Hexanone	Lin1		0.7628		38.8	40.0	-2.9	55.0
Dibromochloromethane	Ave	2.083	2.106		10.1	10.0	1.1	35.0
1,2-Dibromoethane (EDB)	Ave	1.654	1.653		9.99	10.0	-0.0	35.0
1-Chlorohexane	Ave	3.112	3.107		9.98	10.0	-0.2	35.0
Chlorobenzene	Ave	4.407	4.349	0.3000	9.87	10.0	-1.3	35.0
1,1,1,2-Tetrachloroethane	Ave	2.042	1.975		9.67	10.0	-3.3	35.0
Ethylbenzene	Ave	2.303	2.281		9.90	10.0	-1.0	35.0
m-Xylene & p-Xylene	Ave	3.050	2.987		19.6	20.0	-2.1	35.0
o-Xylene	Ave	2.773	2.706		9.76	10.0	-2.4	35.0
Styrene	Ave	4.358	4.361		10.0	10.0	0.0	35.0
Bromoform	Ave	1.356	1.314	0.1000	9.68	10.0	-3.2	35.0
Isopropylbenzene	Ave	4.906	4.730		9.64	10.0	-3.6	35.0
Cyclohexanone	Ave	0.0251	0.0250		249	250	-0.5	35.0
1,1,2,2-Tetrachloroethane	Ave	1.017	0.9613	0.3000	9.46	10.0	-5.4	35.0
Bromobenzene	Ave	1.235	1.197		9.69	10.0	-3.1	35.0
1,2,3-Trichloropropane	Ave	0.2202	0.2257		10.2	10.0	2.5	35.0
n-Propylbenzene	Ave	1.183	1.152		9.74	10.0	-2.6	35.0
2-Chlorotoluene	Ave	0.9670	0.9634		9.96	10.0	-0.4	35.0
1,3,5-Trimethylbenzene	Ave	3.667	3.471		9.46	10.0	-5.4	35.0
4-Chlorotoluene	Ave	1.100	1.111		10.1	10.0	1.0	35.0
tert-Butylbenzene	Ave	3.794	3.755		9.90	10.0	-1.0	35.0
1,2,4-Trimethylbenzene	Ave	3.509	3.307		9.42	10.0	-5.8	35.0
sec-Butylbenzene	Ave	1.021	1.031		10.1	10.0	0.9	35.0
1,3-Dichlorobenzene	Ave	1.884	1.856		9.85	10.0	-1.5	35.0
4-Isopropyltoluene	Ave	4.194	4.081		9.73	10.0	-2.7	35.0
1,4-Dichlorobenzene	Ave	2.524	2.486		9.85	10.0	-1.5	35.0
n-Butylbenzene	Ave	4.428	4.293		9.70	10.0	-3.0	35.0
1,2-Dichlorobenzene	Ave	1.806	1.780		9.85	10.0	-1.5	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.1849	0.1786		9.66	10.0	-3.4	55.0
1,2,4-Trichlorobenzene	Ave	1.445	1.473		10.2	10.0	1.9	35.0
Hexachlorobutadiene	Ave	1.192	1.240		10.4	10.0	4.0	35.0
Naphthalene	Ave	1.500	1.528		10.2	10.0	1.9	35.0
1,2,3-Trichlorobenzene	Ave	1.212	1.182		9.75	10.0	-2.5	35.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121204-7000.b\H8920.D
Lims ID: icv Client ID:
Inject. Date: 04-Dec-2012 08:44:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 4
Lims Batch ID: 150267 Lims Sample ID: 2
Sublist:
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121204-7000.b\AQ_VMSH_8260.m
Last Update: 05-Dec-2012 05:43:58 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: DENPC186

First Level Reviewer: meierg Date: 04-Dec-2012 09:24:34

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.610	7.615	-0.005	98	1366137	12.5	
* 2 Chlorobenzene-d5	119	11.945	11.950	-0.005	86	279341	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.731	14.735	-0.004	95	482819	12.5	
24 Chlorotrifluoroethene	116	2.596	2.595	0.001	71	216277	10.2	
25 Dichlorodifluoromethane	85	2.648	2.648	0.0	86	503072	8.80	
28 Chloromethane	50	2.822	2.805	0.017	87	310939	8.95	
29 Vinyl chloride	62	2.979	2.961	0.018	76	313573	9.23	
27 2-Chloro-1,1,1-Trifluoroethane	118	3.014	3.012	0.002	26	485867	10.4	
31 Bromomethane	94	3.293	3.275	0.017	89	245167	8.32	
32 Chloroethane	64	3.362	3.344	0.018	95	182980	8.51	
34 Trichlorofluoromethane	101	3.728	3.710	0.018	88	573791	8.58	
35 Ethanol	45	3.850	3.815	0.035	1	42021	0	
41 Acrolein	56	4.059	4.058	0.001	96	134948	97.8	
45 1,1-Dichloroethene	96	4.180	4.180	0.0	88	334124	10.2	
43 Acetone	43	4.233	4.215	0.018	96	126701	35.9	
46 Iodomethane	142	4.372	4.372	0.0	97	698749	11.6	
48 Acetonitrile	41	4.616	4.563	0.053	94	62458	84.9	
52 Methylene Chloride	84	4.703	4.702	0.001	100	358241	10.4	
51 2-Methyl-2-propanol	59	4.807	4.789	0.018	97	324048	215.6	
53 Acrylonitrile	53	4.981	4.981	0.0	99	384443	102.2	
55 trans-1,2-Dichloroethene	96	4.999	4.998	0.001	99	429799	10.0	
59 1,1-Dichloroethane	63	5.486	5.486	0.0	72	774220	10.2	
58 Isopropyl ether	87	5.521	5.521	0.0	99	1663508	48.5	
60 2-Chloro-1,3-butadiene	53	5.591	5.590	0.001	67	641028	11.7	
67 2,2-Dichloropropane	77	6.200	6.182	0.018	84	619683	10.5	
65 cis-1,2-Dichloroethene	96	6.182	6.182	0.0	72	428338	9.64	
63 2-Butanone (MEK)	43	6.182	6.182	0.0	52	339633	41.3	
66 Propionitrile	54	6.287	6.287	0.0	92	142943	101.1	
68 Methacrylonitrile	41	6.444	6.443	0.001	95	1056434	94.5	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
69 Chlorobromomethane	128	6.478	6.478	0.0	87	198421	10.6	
70 Chloroform	83	6.548	6.548	0.0	93	771096	10.1	
73 1,1,1-Trichloroethane	97	6.809	6.809	0.0	92	686310	10.2	
75 1,1-Dichloropropene	75	7.001	7.000	0.001	90	653171	9.75	
76 Carbon tetrachloride	117	7.018	7.018	0.0	84	604667	10.3	
72 Isobutyl alcohol	41	7.105	7.105	0.0	93	136574	240.4	
79 Benzene	78	7.262	7.262	0.0	97	1306025	10.2	
78 1,2-Dichloroethane	62	7.279	7.279	0.0	84	310400	10.1	
80 n-Butanol	56	7.976	7.975	0.001	87	114782	268.5	
81 Trichloroethene	95	8.080	8.080	0.0	95	514152	9.69	
85 1,2-Dichloropropane	63	8.394	8.393	0.001	94	473381	10.3	
87 Dibromomethane	93	8.568	8.567	0.001	93	255105	9.89	
86 1,4-Dioxane	88	8.585	8.585	0.0	80	71200	491.1	
88 Dichlorobromomethane	83	8.759	8.759	0.0	93	681139	10.2	
91 cis-1,3-Dichloropropene	75	9.351	9.368	-0.017	87	620969	10.1	
92 4-Methyl-2-pentanone (MIBK)	43	9.560	9.560	0.0	96	1008944	41.5	
93 Toluene	91	9.838	9.838	0.0	98	1497783	10.1	
95 trans-1,3-Dichloropropene	75	10.152	10.152	0.0	93	454836	10.5	
96 1,1,2-Trichloroethane	97	10.448	10.465	-0.017	85	282856	9.53	
99 Tetrachloroethene	164	10.692	10.691	0.001	97	502689	10.1	
98 1,3-Dichloropropane	76	10.744	10.744	0.0	93	483253	9.84	
97 2-Hexanone	43	10.848	10.848	0.0	98	681812	38.8	
100 Chlorodibromomethane	129	11.109	11.109	0.0	91	470680	10.1	
102 Ethylene Dibromide	107	11.301	11.301	0.0	97	369305	10.0	
103 1-Chlorohexane	91	11.928	11.927	0.001	91	694281	9.98	
104 Chlorobenzene	112	11.980	11.980	0.0	90	971775	9.87	
106 1,1,1,2-Tetrachloroethane	131	12.102	12.101	0.001	88	441440	9.67	
105 Ethylbenzene	106	12.119	12.119	0.0	98	509632	9.90	
107 m-Xylene & p-Xylene	106	12.276	12.276	0.0	0	1335213	19.6	
109 o-Xylene	106	12.798	12.798	0.0	96	604749	9.76	
108 Styrene	104	12.816	12.815	0.001	91	974567	10.0	
110 Bromoform	173	13.077	13.076	0.001	96	293546	9.68	
111 Isopropylbenzene	105	13.233	13.251	-0.017	95	1826864	9.64	
113 Cyclohexanone	55	13.390	13.390	0.0	92	139659	248.7	
114 1,1,2,2-Tetrachloroethane	83	13.616	13.616	0.0	77	371300	9.46	
118 Bromobenzene	156	13.634	13.634	0.0	95	462453	9.69	
116 1,2,3-Trichloropropane	110	13.669	13.668	0.001	73	87170	10.2	
117 N-Propylbenzene	120	13.738	13.738	0.0	98	444867	9.74	
120 2-Chlorotoluene	126	13.843	13.842	0.001	93	372132	9.96	
119 1,3,5-Trimethylbenzene	105	13.930	13.929	0.001	93	1340508	9.46	
121 4-Chlorotoluene	126	13.965	13.964	0.001	98	429124	10.1	
122 tert-Butylbenzene	119	14.295	14.295	0.0	93	1450488	9.90	
123 1,2,4-Trimethylbenzene	105	14.348	14.347	0.001	96	1277509	9.42	
124 sec-Butylbenzene	134	14.539	14.539	0.0	94	398087	10.1	
126 1,3-Dichlorobenzene	146	14.661	14.678	-0.017	89	716800	9.85	
125 4-Isopropyltoluene	119	14.678	14.678	0.0	92	1576391	9.73	
128 1,4-Dichlorobenzene	146	14.765	14.765	0.0	85	960305	9.85	
129 n-Butylbenzene	91	15.096	15.113	-0.017	97	1658185	9.70	
130 1,2-Dichlorobenzene	146	15.148	15.148	0.0	96	687408	9.85	
131 1,2-Dibromo-3-Chloropropane	157	15.914	15.914	0.0	81	68984	9.66	
132 1,2,4-Trichlorobenzene	180	16.680	16.680	0.0	94	569079	10.2	
133 Hexachlorobutadiene	225	16.837	16.837	0.0	91	478772	10.4	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
134 Naphthalene	128	16.942	16.941	0.001	94	590208	10.2	
135 1,2,3-Trichlorobenzene	180	17.185	17.185	0.0	93	456602	9.75	
S 136 Trihalomethanes, Total	1				0		40.2	
S 139 1,3-Dichloropropene, Total	1				0		20.6	
S 140 1,2-Dichloroethene, Total	1				0		19.7	
S 141 Xylenes, Total	106				0		29.3	

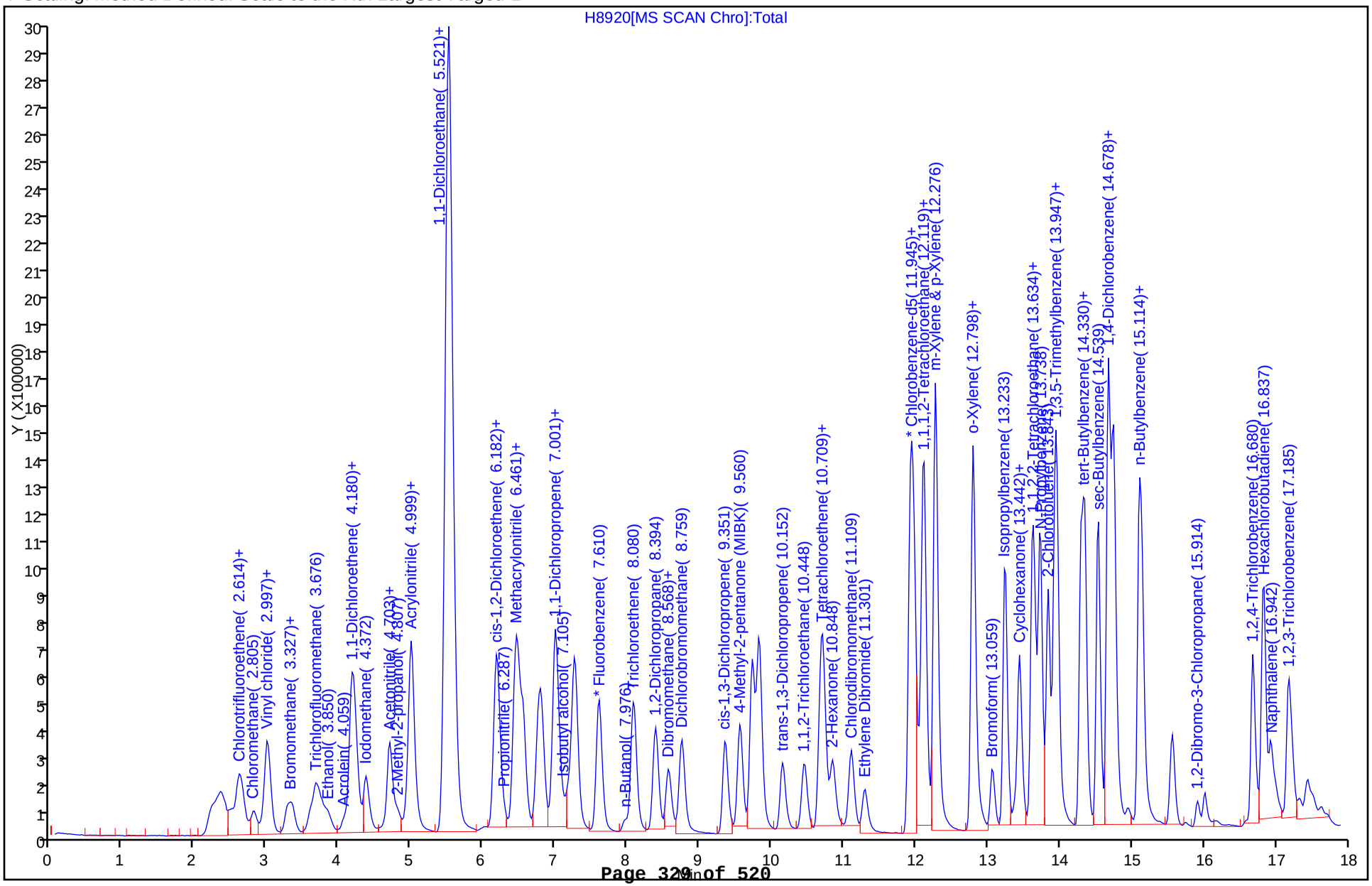
Report Date: 05-Dec-2012 05:44:01 Chrom Revision: 2.0 03-Dec-2012 13:34:40

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121204-7000.b\H8920.D

Injection Date:	04-Dec-2012 08:44:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150267	Lims Sample ID:	2
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab Sample ID: CCV 280-151489/2 Calibration Date: 12/11/2012 05:53

Instrument ID: VMS_H Calib Start Date: 11/13/2012 07:11

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 11/13/2012 09:23

Lab File ID: H9091.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin		0.0007		94.0	500	-100.0*	50.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9091.D
Lims ID: ccv
Client ID:
Inject. Date: 11-Dec-2012 05:53:30
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: meierg
Instrument ID: VMS_H
Purge Vol: 20.000 mL
ALS Bottle#: 1
Lims Batch ID: 151489
Lims Sample ID: 2
Sublist: chrom-AQ_VMSH_8260*sub4
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:30
Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE
ID Type: Deconvolution ID
Column Type: DB-624 (75.53)
Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg
Date: 11-Dec-2012 06:31:20

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.592	7.592	0.0	98	1958330	12.5	
* 2 Chlorobenzene-d5	119	11.927	11.927	0.0	88	400938	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.730	14.730	0.0	94	703421	12.5	
25 Dichlorodifluoromethane	85	2.648	2.648	0.0	89	625150	7.63	
28 Chloromethane	50	2.804	2.804	0.0	98	387522	7.78	
29 Vinyl chloride	62	2.961	2.961	0.0	97	414942	8.52	
31 Bromomethane	94	3.274	3.274	0.0	88	342740	8.11	
32 Chloroethane	64	3.344	3.344	0.0	95	271923	8.82	
34 Trichlorofluoromethane	101	3.692	3.692	0.0	87	845847	8.82	
35 Ethanol	45	3.814	3.814	0.0	90	51174	0	
41 Acrolein	56	4.058	4.058	0.0	96	193449	97.9	
45 1,1-Dichloroethene	96	4.162	4.162	0.0	88	428366	9.10	
43 Acetone	43	4.215	4.215	0.0	89	177406	35.1	
46 Iodomethane	142	4.354	4.354	0.0	97	809687	9.41	
48 Acetonitrile	41	4.563	4.563	0.0	95	109003	103.3	
52 Methylene Chloride	84	4.685	4.685	0.0	95	481257	9.69	
51 2-Methyl-2-propanol	59	4.789	4.789	0.0	97	426168	197.8	
53 Acrylonitrile	53	4.963	4.963	0.0	98	525027	97.4	
55 trans-1,2-Dichloroethene	96	4.998	4.998	0.0	96	596905	9.74	
59 1,1-Dichloroethane	63	5.468	5.468	0.0	72	1090293	10.0	
58 Isopropyl ether	87	5.503	5.503	0.0	100	2345114	47.7	
60 2-Chloro-1,3-butadiene	53	5.573	5.573	0.0	86	824334	10.5	
65 cis-1,2-Dichloroethene	96	6.164	6.164	0.0	72	601883	9.45	
63 2-Butanone (MEK)	43	6.164	6.164	0.0	53	487838	41.3	
67 2,2-Dichloropropane	77	6.182	6.182	0.0	81	875435	10.4	
66 Propionitrile	54	6.269	6.269	0.0	98	193680	95.5	
68 Methacrylonitrile	41	6.426	6.426	0.0	95	1589353	99.1	
69 Chlorobromomethane	128	6.478	6.478	0.0	86	268519	9.96	
70 Chloroform	83	6.547	6.547	0.0	79	1075805	9.86	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
73 1,1,1-Trichloroethane	97	6.791	6.791	0.0	92	977977	10.2	
75 1,1-Dichloropropene	75	6.983	6.983	0.0	89	984542	10.3	
76 Carbon tetrachloride	117	7.000	7.000	0.0	87	871806	10.4	
72 Isobutyl alcohol	41	7.087	7.087	0.0	76	172264	211.5	
79 Benzene	78	7.244	7.244	0.0	97	1857070	10.1	
78 1,2-Dichloroethane	62	7.279	7.279	0.0	86	439254	9.95	
80 n-Butanol	56	7.958	7.958	0.0	91	161329	263.5	
81 Trichloroethene	95	8.080	8.080	0.0	94	737307	9.69	
85 1,2-Dichloropropane	63	8.375	8.375	0.0	94	671447	10.2	
87 Dibromomethane	93	8.550	8.550	0.0	93	350290	9.47	
86 1,4-Dioxane	88	8.567	8.567	0.0	35	79332	386.5	
88 Dichlorobromomethane	83	8.741	8.741	0.0	93	937685	9.84	
91 cis-1,3-Dichloropropene	75	9.350	9.350	0.0	88	875052	9.89	
92 4-Methyl-2-pentanone (MIBK)	43	9.559	9.559	0.0	96	1430132	41.0	
93 Toluene	91	9.820	9.820	0.0	97	2104530	9.88	
95 trans-1,3-Dichloropropene	75	10.134	10.134	0.0	94	640214	10.3	
96 1,1,2-Trichloroethane	97	10.447	10.447	0.0	85	400509	9.41	
99 Tetrachloroethene	164	10.674	10.674	0.0	92	696708	9.78	
98 1,3-Dichloropropane	76	10.726	10.726	0.0	95	684411	9.71	
97 2-Hexanone	43	10.848	10.848	0.0	96	956410	38.0	
100 Chlorodibromomethane	129	11.091	11.091	0.0	89	639915	9.58	
102 Ethylene Dibromide	107	11.283	11.283	0.0	97	509417	9.60	
103 1-Chlorohexane	91	11.910	11.910	0.0	90	1039380	10.4	
104 Chlorobenzene	112	11.979	11.979	0.0	90	1365780	9.66	
106 1,1,1,2-Tetrachloroethane	131	12.084	12.084	0.0	86	630983	9.63	
105 Ethylbenzene	106	12.119	12.119	0.0	99	716022	9.69	
107 m-Xylene & p-Xylene	106	12.275	12.275	0.0	0	1949031	19.9	
109 o-Xylene	106	12.780	12.780	0.0	91	871274	9.79	
108 Styrene	104	12.797	12.797	0.0	88	1397583	10.0	
110 Bromoform	173	13.059	13.059	0.0	96	402212	9.24	
111 Isopropylbenzene	105	13.233	13.233	0.0	96	2675816	9.69	
113 Cyclohexanone	55	13.372	13.372	0.0	93	323973	401.9	
118 Bromobenzene	156	13.616	13.616	0.0	95	646607	9.30	
114 1,1,2,2-Tetrachloroethane	83	13.616	13.616	0.0	77	524835	9.17	
116 1,2,3-Trichloropropane	110	13.668	13.668	0.0	54	119021	9.61	
117 N-Propylbenzene	120	13.720	13.720	0.0	88	653539	9.82	
120 2-Chlorotoluene	126	13.842	13.842	0.0	96	544700	10.0	
119 1,3,5-Trimethylbenzene	105	13.929	13.929	0.0	87	2004452	9.71	
121 4-Chlorotoluene	126	13.964	13.964	0.0	98	584887	9.45	
122 tert-Butylbenzene	119	14.295	14.295	0.0	95	2106982	9.87	
123 1,2,4-Trimethylbenzene	105	14.347	14.347	0.0	96	1907606	9.66	
124 sec-Butylbenzene	134	14.521	14.521	0.0	94	567756	9.88	
126 1,3-Dichlorobenzene	146	14.660	14.660	0.0	88	1054116	9.94	
125 4-Isopropyltoluene	119	14.678	14.678	0.0	96	2372603	10.1	
128 1,4-Dichlorobenzene	146	14.747	14.747	0.0	88	1288741	9.07	
129 n-Butylbenzene	91	15.096	15.096	0.0	98	2495199	10.0	
130 1,2-Dichlorobenzene	146	15.148	15.148	0.0	95	949069	9.34	
131 1,2-Dibromo-3-Chloropropane	157	15.914	15.914	0.0	81	94490	9.08	
132 1,2,4-Trichlorobenzene	180	16.680	16.680	0.0	93	796938	9.80	
133 Hexachlorobutadiene	225	16.819	16.819	0.0	94	688913	10.3	
134 Naphthalene	128	16.924	16.924	0.0	96	812428	9.63	
135 1,2,3-Trichlorobenzene	180	17.167	17.167	0.0	93	645862	9.47	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
S 139 1,3-Dichloropropene, Total	1				0		20.2	
S 140 1,2-Dichloroethene, Total	1				0		19.2	
S 141 Xylenes, Total	106				0		29.7	
S 136 Trihalomethanes, Total	1				0		38.5	
S 137 Xylenes, Total (URS)	1				0		29.7	
S 138 Total BTEX	1				0		59.4	
S 142 1,2-Dichloroethene, Total (URS)	96				0		19.2	

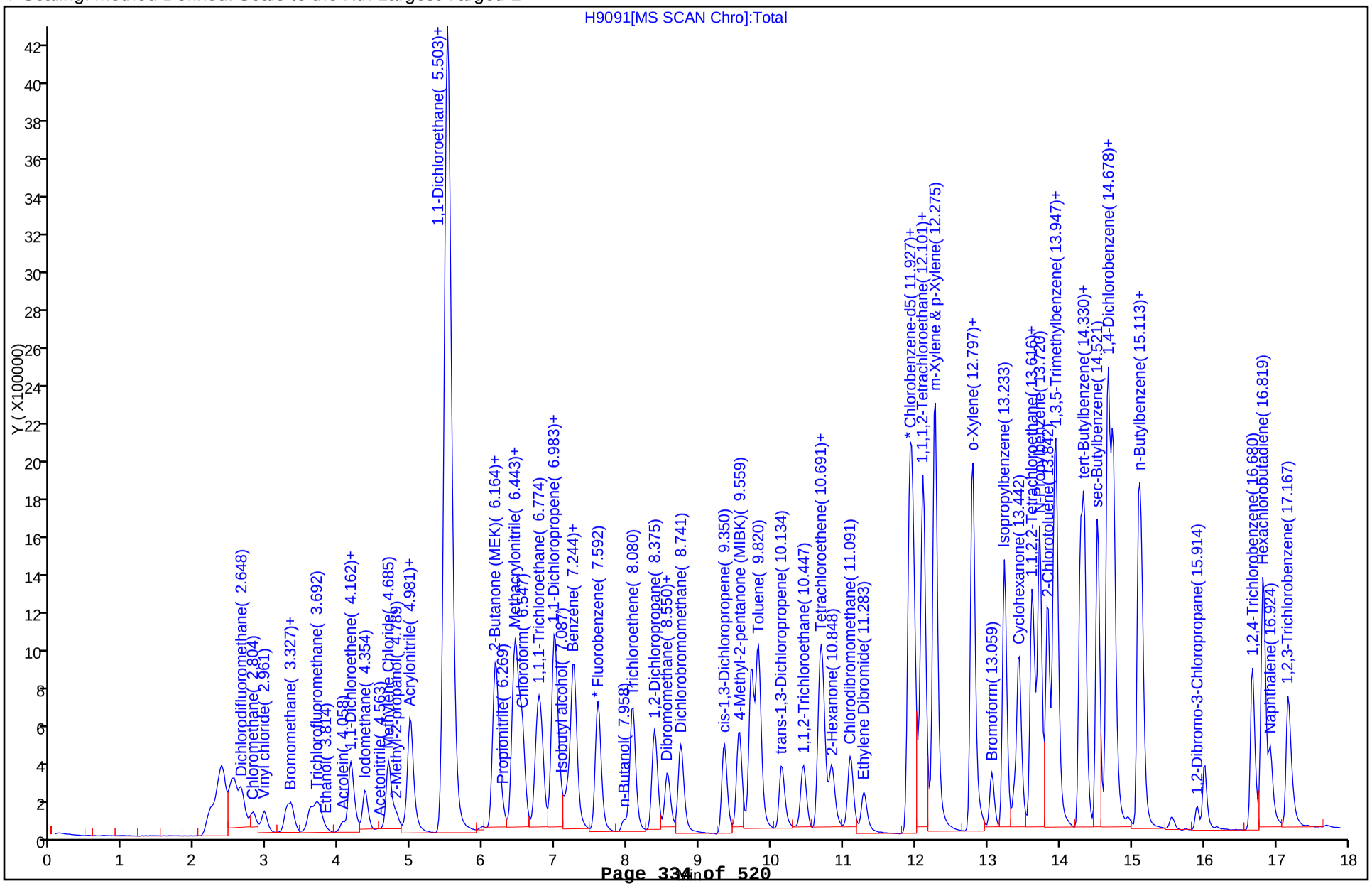
Report Date: 12-Dec-2012 05:43:31 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9091.D

Injection Date:	11-Dec-2012 05:53:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	2
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab Sample ID: CCV 280-151489/2 Calibration Date: 12/11/2012 05:53

Instrument ID: VMS_H Calib Start Date: 12/03/2012 14:05

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 12/03/2012 16:17

Lab File ID: H9091.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5230	0.3990		7.63	10.0	-23.7	50.0
Chloromethane	Ave	0.3179	0.2474	0.1000	7.78	10.0	-22.2	35.0
Vinyl chloride	Ave	0.3110	0.2649		8.52	10.0	-14.8	20.0
Bromomethane	Ave	0.2697	0.2188		8.11	10.0	-18.9	35.0
Chloroethane	Ave	0.1967	0.1736		8.82	10.0	-11.8	35.0
Trichlorofluoromethane	Ave	0.6120	0.5399		8.82	10.0	-11.8	50.0
Acrolein	Ave	0.0126	0.0127		97.9	97.6	0.2	50.0
1,1-Dichloroethene	Ave	0.3004	0.2734		9.10	10.0	-9.0	20.0
Acetone	Ave	0.0323	0.0283		35.1	40.0	-12.2	50.0
Iodomethane	Ave	0.5492	0.5168		9.41	10.0	-5.9	35.0
Acetonitrile	Ave	0.0067	0.0070		103	100	3.3	50.0
Methylene Chloride	Lin1		0.3072		9.69	10.0	-3.1	35.0
Tert-butyl alcohol (2-methyl-2-propanol)	Ave	0.0138	0.0136		198	200	-1.1	50.0
Acrylonitrile	Ave	0.0344	0.0335		97.4	100	-2.6	50.0
trans-1,2-Dichloroethene	Ave	0.3913	0.3810		9.74	10.0	-2.6	35.0
1,1-Dichloroethane	Ave	0.6936	0.6959	0.1000	10.0	10.0	0.3	35.0
Isopropyl ether	Ave	0.3139	0.2994		47.7	50.0	-4.6	35.0
Chloroprene	Ave	0.4994	0.5262		10.5	10.0	5.4	35.0
2-Butanone (MEK)	Ave	0.0753	0.0779		41.3	40.0	3.4	50.0
cis-1,2-Dichloroethene	Ave	0.4064	0.3842		9.45	10.0	-5.5	35.0
2,2-Dichloropropane	Ave	0.5381	0.5588		10.4	10.0	3.8	35.0
Propionitrile	Ave	0.0129	0.0124		95.5	100	-4.5	50.0
Methacrylonitrile	Ave	0.1023	0.1015		99.1	100	-0.9	50.0
Bromochloromethane	Ave	0.1721	0.1714		9.96	10.0	-0.4	35.0
Chloroform	Ave	0.6963	0.6867		9.86	10.0	-1.4	20.0
1,1,1-Trichloroethane	Ave	0.6136	0.6242		10.2	10.0	1.7	35.0
1,1-Dichloropropene	Ave	0.6127	0.6284		10.3	10.0	2.6	35.0
Carbon tetrachloride	Ave	0.5346	0.5565		10.4	10.0	4.1	35.0
Isobutyl alcohol	Ave	0.0052	0.0055		211	200	5.7	50.0
Benzene	Ave	1.169	1.185		10.1	10.0	1.4	35.0
1,2-Dichloroethane	Ave	0.2818	0.2804		9.95	10.0	-0.5	35.0
n-Butanol	Lin1		0.0034		264	300	-12.2	50.0
Trichloroethene	Ave	0.4857	0.4706		9.69	10.0	-3.1	35.0
1,2-Dichloropropane	Ave	0.4192	0.4286		10.2	10.0	2.2	20.0
Dibromomethane	Ave	0.2361	0.2236		9.47	10.0	-5.3	35.0
1,4-Dioxane	Lin2		0.0010		386	500	-22.7	50.0
Bromodichloromethane	Ave	0.6086	0.5985		9.84	10.0	-1.6	35.0
cis-1,3-Dichloropropene	Ave	2.759	2.728		9.89	10.0	-1.1	35.0
4-Methyl-2-pentanone	Ave	0.2226	0.2282		41.0	40.0	2.5	50.0
Toluene	Ave	1.359	1.343		9.88	10.0	-1.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab Sample ID: CCV 280-151489/2 Calibration Date: 12/11/2012 05:53

Instrument ID: VMS_H Calib Start Date: 12/03/2012 14:05

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 12/03/2012 16:17

Lab File ID: H9091.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
trans-1,3-Dichloropropene	Ave	0.3967	0.4087		10.3	10.0	3.0	35.0
1,1,2-Trichloroethane	Ave	0.2717	0.2556		9.41	10.0	-5.9	35.0
Tetrachloroethene	Ave	2.222	2.172		9.78	10.0	-2.2	35.0
1,3-Dichloropropane	Ave	2.197	2.134		9.71	10.0	-2.9	35.0
2-Hexanone	Lin1		0.7455		38.0	40.0	-5.0	50.0
Dibromochloromethane	Ave	2.083	1.995		9.58	10.0	-4.2	35.0
1,2-Dibromoethane (EDB)	Ave	1.654	1.588		9.60	10.0	-4.0	35.0
1-Chlorohexane	Ave	3.112	3.162		10.4	10.2	1.6	35.0
Chlorobenzene	Ave	4.407	4.258	0.3000	9.66	10.0	-3.4	35.0
1,1,1,2-Tetrachloroethane	Ave	2.042	1.967		9.63	10.0	-3.7	35.0
Ethylbenzene	Ave	2.303	2.232		9.69	10.0	-3.1	20.0
m-Xylene & p-Xylene	Ave	3.050	3.038		19.9	20.0	-0.4	35.0
o-Xylene	Ave	2.773	2.716		9.79	10.0	-2.1	35.0
Styrene	Ave	4.358	4.357		10.0	10.0	-0.0	35.0
Bromoform	Ave	1.356	1.254	0.1000	9.24	10.0	-7.6	35.0
Isopropylbenzene	Ave	4.906	4.755		9.69	10.0	-3.1	35.0
Cyclohexanone	Ave	0.0251	0.0253		402	400	0.5	50.0
1,1,2,2-Tetrachloroethane	Ave	1.017	0.9327	0.3000	9.17	10.0	-8.3	35.0
Bromobenzene	Ave	1.235	1.149		9.30	10.0	-7.0	35.0
1,2,3-Trichloropropane	Ave	0.2202	0.2115		9.61	10.0	-3.9	35.0
n-Propylbenzene	Ave	1.183	1.161		9.82	10.0	-1.8	35.0
2-Chlorotoluene	Ave	0.9670	0.9680		10.0	10.0	0.1	35.0
1,3,5-Trimethylbenzene	Ave	3.667	3.562		9.71	10.0	-2.9	35.0
4-Chlorotoluene	Ave	1.100	1.039		9.45	10.0	-5.5	35.0
tert-Butylbenzene	Ave	3.794	3.744		9.87	10.0	-1.3	35.0
1,2,4-Trimethylbenzene	Ave	3.509	3.390		9.66	10.0	-3.4	35.0
sec-Butylbenzene	Ave	1.021	1.009		9.88	10.0	-1.2	35.0
1,3-Dichlorobenzene	Ave	1.884	1.873		9.94	10.0	-0.6	35.0
4-Isopropyltoluene	Ave	4.194	4.216		10.1	10.0	0.5	35.0
1,4-Dichlorobenzene	Ave	2.524	2.290		9.07	10.0	-9.3	35.0
n-Butylbenzene	Ave	4.428	4.434		10.0	10.0	0.1	35.0
1,2-Dichlorobenzene	Ave	1.806	1.687		9.34	10.0	-6.6	35.0
1,2-Dibromo-3-Chloropropane	Ave	0.1849	0.1679		9.08	10.0	-9.2	50.0
1,2,4-Trichlorobenzene	Ave	1.445	1.416		9.80	10.0	-2.0	35.0
Hexachlorobutadiene	Ave	1.192	1.224		10.3	10.0	2.7	35.0
Naphthalene	Ave	1.500	1.444		9.63	10.0	-3.7	35.0
1,2,3-Trichlorobenzene	Ave	1.212	1.148		9.47	10.0	-5.3	35.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9091.D
Lims ID: ccv Client ID:
Inject. Date: 11-Dec-2012 05:53:30 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 1
Lims Batch ID: 151489 Lims Sample ID: 2
Sublist: chrom-AQ_VMSH_8260*sub4
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:30 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 06:31:20

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.592	7.592	0.0	98	1958330	12.5	
* 2 Chlorobenzene-d5	119	11.927	11.927	0.0	88	400938	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.730	14.730	0.0	94	703421	12.5	
25 Dichlorodifluoromethane	85	2.648	2.648	0.0	89	625150	7.63	
28 Chloromethane	50	2.804	2.804	0.0	98	387522	7.78	
29 Vinyl chloride	62	2.961	2.961	0.0	97	414942	8.52	
31 Bromomethane	94	3.274	3.274	0.0	88	342740	8.11	
32 Chloroethane	64	3.344	3.344	0.0	95	271923	8.82	
34 Trichlorofluoromethane	101	3.692	3.692	0.0	87	845847	8.82	
35 Ethanol	45	3.814	3.814	0.0	90	51174	0	
41 Acrolein	56	4.058	4.058	0.0	96	193449	97.9	
45 1,1-Dichloroethene	96	4.162	4.162	0.0	88	428366	9.10	
43 Acetone	43	4.215	4.215	0.0	89	177406	35.1	
46 Iodomethane	142	4.354	4.354	0.0	97	809687	9.41	
48 Acetonitrile	41	4.563	4.563	0.0	95	109003	103.3	
52 Methylene Chloride	84	4.685	4.685	0.0	95	481257	9.69	
51 2-Methyl-2-propanol	59	4.789	4.789	0.0	97	426168	197.8	
53 Acrylonitrile	53	4.963	4.963	0.0	98	525027	97.4	
55 trans-1,2-Dichloroethene	96	4.998	4.998	0.0	96	596905	9.74	
59 1,1-Dichloroethane	63	5.468	5.468	0.0	72	1090293	10.0	
58 Isopropyl ether	87	5.503	5.503	0.0	100	2345114	47.7	
60 2-Chloro-1,3-butadiene	53	5.573	5.573	0.0	86	824334	10.5	
65 cis-1,2-Dichloroethene	96	6.164	6.164	0.0	72	601883	9.45	
63 2-Butanone (MEK)	43	6.164	6.164	0.0	53	487838	41.3	
67 2,2-Dichloropropane	77	6.182	6.182	0.0	81	875435	10.4	
66 Propionitrile	54	6.269	6.269	0.0	98	193680	95.5	
68 Methacrylonitrile	41	6.426	6.426	0.0	95	1589353	99.1	
69 Chlorobromomethane	128	6.478	6.478	0.0	86	268519	9.96	
70 Chloroform	83	6.547	6.547	0.0	79	1075805	9.86	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
73 1,1,1-Trichloroethane	97	6.791	6.791	0.0	92	977977	10.2	
75 1,1-Dichloropropene	75	6.983	6.983	0.0	89	984542	10.3	
76 Carbon tetrachloride	117	7.000	7.000	0.0	87	871806	10.4	
72 Isobutyl alcohol	41	7.087	7.087	0.0	76	172264	211.5	
79 Benzene	78	7.244	7.244	0.0	97	1857070	10.1	
78 1,2-Dichloroethane	62	7.279	7.279	0.0	86	439254	9.95	
80 n-Butanol	56	7.958	7.958	0.0	91	161329	263.5	
81 Trichloroethene	95	8.080	8.080	0.0	94	737307	9.69	
85 1,2-Dichloropropane	63	8.375	8.375	0.0	94	671447	10.2	
87 Dibromomethane	93	8.550	8.550	0.0	93	350290	9.47	
86 1,4-Dioxane	88	8.567	8.567	0.0	35	79332	386.5	
88 Dichlorobromomethane	83	8.741	8.741	0.0	93	937685	9.84	
91 cis-1,3-Dichloropropene	75	9.350	9.350	0.0	88	875052	9.89	
92 4-Methyl-2-pentanone (MIBK)	43	9.559	9.559	0.0	96	1430132	41.0	
93 Toluene	91	9.820	9.820	0.0	97	2104530	9.88	
95 trans-1,3-Dichloropropene	75	10.134	10.134	0.0	94	640214	10.3	
96 1,1,2-Trichloroethane	97	10.447	10.447	0.0	85	400509	9.41	
99 Tetrachloroethene	164	10.674	10.674	0.0	92	696708	9.78	
98 1,3-Dichloropropane	76	10.726	10.726	0.0	95	684411	9.71	
97 2-Hexanone	43	10.848	10.848	0.0	96	956410	38.0	
100 Chlorodibromomethane	129	11.091	11.091	0.0	89	639915	9.58	
102 Ethylene Dibromide	107	11.283	11.283	0.0	97	509417	9.60	
103 1-Chlorohexane	91	11.910	11.910	0.0	90	1039380	10.4	
104 Chlorobenzene	112	11.979	11.979	0.0	90	1365780	9.66	
106 1,1,1,2-Tetrachloroethane	131	12.084	12.084	0.0	86	630983	9.63	
105 Ethylbenzene	106	12.119	12.119	0.0	99	716022	9.69	
107 m-Xylene & p-Xylene	106	12.275	12.275	0.0	0	1949031	19.9	
109 o-Xylene	106	12.780	12.780	0.0	91	871274	9.79	
108 Styrene	104	12.797	12.797	0.0	88	1397583	10.0	
110 Bromoform	173	13.059	13.059	0.0	96	402212	9.24	
111 Isopropylbenzene	105	13.233	13.233	0.0	96	2675816	9.69	
113 Cyclohexanone	55	13.372	13.372	0.0	93	323973	401.9	
118 Bromobenzene	156	13.616	13.616	0.0	95	646607	9.30	
114 1,1,2,2-Tetrachloroethane	83	13.616	13.616	0.0	77	524835	9.17	
116 1,2,3-Trichloropropane	110	13.668	13.668	0.0	54	119021	9.61	
117 N-Propylbenzene	120	13.720	13.720	0.0	88	653539	9.82	
120 2-Chlorotoluene	126	13.842	13.842	0.0	96	544700	10.0	
119 1,3,5-Trimethylbenzene	105	13.929	13.929	0.0	87	2004452	9.71	
121 4-Chlorotoluene	126	13.964	13.964	0.0	98	584887	9.45	
122 tert-Butylbenzene	119	14.295	14.295	0.0	95	2106982	9.87	
123 1,2,4-Trimethylbenzene	105	14.347	14.347	0.0	96	1907606	9.66	
124 sec-Butylbenzene	134	14.521	14.521	0.0	94	567756	9.88	
126 1,3-Dichlorobenzene	146	14.660	14.660	0.0	88	1054116	9.94	
125 4-Isopropyltoluene	119	14.678	14.678	0.0	96	2372603	10.1	
128 1,4-Dichlorobenzene	146	14.747	14.747	0.0	88	1288741	9.07	
129 n-Butylbenzene	91	15.096	15.096	0.0	98	2495199	10.0	
130 1,2-Dichlorobenzene	146	15.148	15.148	0.0	95	949069	9.34	
131 1,2-Dibromo-3-Chloropropane	157	15.914	15.914	0.0	81	94490	9.08	
132 1,2,4-Trichlorobenzene	180	16.680	16.680	0.0	93	796938	9.80	
133 Hexachlorobutadiene	225	16.819	16.819	0.0	94	688913	10.3	
134 Naphthalene	128	16.924	16.924	0.0	96	812428	9.63	
135 1,2,3-Trichlorobenzene	180	17.167	17.167	0.0	93	645862	9.47	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
S 139 1,3-Dichloropropene, Total	1				0		20.2	
S 140 1,2-Dichloroethene, Total	1				0		19.2	
S 141 Xylenes, Total	106				0		29.7	
S 136 Trihalomethanes, Total	1				0		38.5	
S 137 Xylenes, Total (URS)	1				0		29.7	
S 138 Total BTEX	1				0		59.4	
S 142 1,2-Dichloroethene, Total (URS)	96				0		19.2	

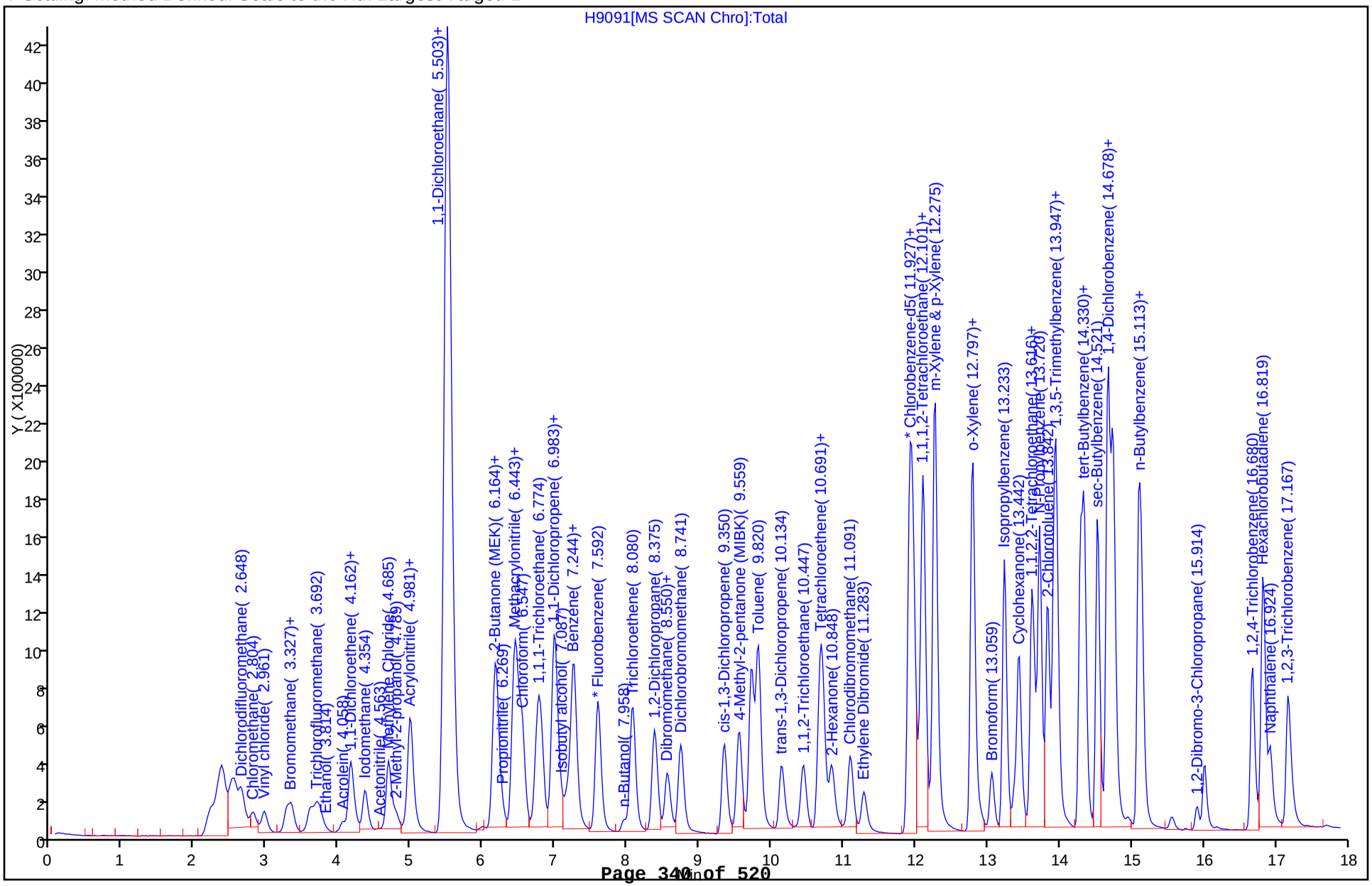
Report Date: 12-Dec-2012 05:43:31 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9091.D

Injection Date:	11-Dec-2012 05:53:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	2
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Lab Sample ID: CCV 280-151489/3 Calibration Date: 12/11/2012 06:15

Instrument ID: VMS_H Calib Start Date: 12/03/2012 16:39

GC Column: DB-624 (75.53) ID: 0.53(mm) Calib End Date: 12/03/2012 18:29

Lab File ID: H9092.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Ave	0.6172	0.6200		10.0	10.0	0.5	50.0
Ethylene oxide	Ave	0.0063	0.0056		1100	1250	-11.8	50.0
Dichlorofluoromethane	Ave	0.7013	0.6810		9.71	10.0	-2.9	50.0
Ethyl ether	Ave	0.2383	0.2141		8.99	10.0	-10.1	35.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.4620	0.4360		9.44	10.0	-5.6	50.0
2,2-Dichloro-1,1,1-trifluoroethane	Lin2		0.7692		10.5	10.0	5.2	50.0
Propene oxide	Ave	0.0242	0.0216		446	500	-10.8	50.0
1,1,2-Trichlorotrifluoroethane	Ave	0.4289	0.4062		9.47	10.0	-5.3	50.0
2-Propanol	Ave	0.0078	0.0073		187	200	-6.6	50.0
Carbon disulfide	Ave	1.087	1.105		10.2	10.0	1.6	50.0
Allyl chloride	Ave	0.6284	0.6384		10.2	10.0	1.6	35.0
Methyl acetate	Ave	0.1200	0.1168		48.6	50.0	-2.7	50.0
Methyl tert-butyl ether	Ave	0.6487	0.6148		9.48	10.0	-5.2	35.0
Hexane	Ave	3.046	3.085		10.1	10.0	1.3	35.0
Vinyl acetate	Ave	0.4858	0.5228		21.5	20.0	7.6	50.0
Tert-butyl ethyl ether	Ave	1.177	1.117		47.5	50.0	-5.0	35.0
Ethyl acetate	Ave	0.2344	0.2000		17.1	20.0	-14.7	50.0
sec-Butyl Alcohol	Ave	0.0149	0.0157		318	301	5.6	50.0
Tetrahydrofuran	Ave	0.0482	0.0442		18.3	20.0	-8.3	50.0
Cyclohexane	Ave	0.7006	0.7435		10.6	10.0	6.1	35.0
Tert-amyl methyl ether	Ave	0.8454	0.8192		48.4	50.0	-3.1	35.0
2-Pentanone	Ave	0.1599	0.1584		39.6	40.0	-1.0	50.0
Methylcyclohexane	Ave	0.6580	0.6983		10.6	10.0	6.1	35.0
Methyl methacrylate	Ave	0.0583	0.0534		18.3	20.0	-8.3	35.0
2-Nitropropane	Ave	0.0455	0.0438		9.62	10.0	-3.8	50.0
2-Chloroethyl vinyl ether	Ave	0.1358	0.1487		10.9	10.0	9.5	50.0
Ethyl methacrylate	Ave	1.626	1.540		18.9	20.0	-5.3	35.0
Tetrahydrothiophene	Ave	0.4697	0.4128		8.79	10.0	-12.1	50.0
cis-1,4-Dichloro-2-butene	Ave	0.1255	0.1233		9.82	10.0	-1.8	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1573	0.1560		9.92	10.0	-0.8	50.0
1,2,3-Trimethylbenzene	Ave	3.390	3.108		9.17	10.0	-8.3	35.0
Dibromofluoromethane (Surr)	Ave	0.5747	0.5759		9.02	9.00	0.2	35.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2509	0.2529		9.07	9.00	0.8	35.0
Toluene-d8 (Surr)	Ave	6.086	6.112		9.04	9.00	0.4	35.0
4-Bromofluorobenzene (Surr)	Ave	2.013	1.927		8.62	9.00	-4.2	35.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9092.D
Lims ID: ccv
Client ID:
Inject. Date: 11-Dec-2012 06:15:30
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: meierg
Instrument ID: VMS_H
Purge Vol: 20.000 mL
ALS Bottle#: 2
Lims Batch ID: 151489
Lims Sample ID: 3
Sublist: chrom-AQ_VMSH_8260*sub2
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31
Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE
ID Type: Deconvolution ID
Column Type: DB-624 (75.53)
Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg
Date: 11-Dec-2012 06:36:36

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.598	7.598	0.0	98	2032069	12.5	
* 2 Chlorobenzene-d5	119	11.933	11.933	0.0	88	437109	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.736	14.736	0.0	96	701145	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.745	6.745	0.0	58	842565	9.02	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.181	7.181	0.0	95	370055	9.07	
$ 7 Toluene-d8 (Surr)	98	9.722	9.722	0.0	93	1923530	9.04	
$ 8 4-Bromofluorobenzene (Surr)	95	13.431	13.431	0.0	85	973005	8.62	
26 1,2-Dichloro-1,1,2,2-tetrafluoro	85	2.793	2.793	0.0	93	1007926	10.0	
30 Ethylene oxide	43	3.229	3.229	0.0	99	1128349	1102.0	
33 Dichlorofluoromethane	67	3.577	3.577	0.0	82	1107011	9.71	
37 Ethyl ether	59	3.873	3.873	0.0	92	348078	8.99	
38 1,2-Dichloro-1,1,2-trifluoroetha	117	3.908	3.908	0.0	83	708789	9.44	
40 Propene oxide	58	3.977	3.977	0.0	95	1754905	445.9	
39 1,1,1-Trifluoro-2,2-dichloroetha	83	3.977	3.977	0.0	72	1250424	10.5	
42 1,1,2-Trichloro-1,2,2-trifluoroe	151	4.204	4.204	0.0	87	660321	9.47	
44 Isopropyl alcohol	45	4.360	4.360	0.0	34	235693	186.9	
50 Carbon disulfide	76	4.447	4.447	0.0	99	1796429	10.2	
47 Methyl acetate	43	4.552	4.552	0.0	72	949147	48.6	
49 3-Chloro-1-propene	41	4.552	4.552	0.0	93	1037738	10.2	
54 Methyl tert-butyl ether	73	4.987	4.987	0.0	93	999450	9.48	
56 Hexane	57	5.266	5.266	0.0	96	1078651	10.1	
57 Vinyl acetate	43	5.492	5.492	0.0	90	1699657	21.5	
61 Tert-butyl ethyl ether	59	5.945	5.945	0.0	100	9081841	47.5	
62 Ethyl acetate	43	6.206	6.206	0.0	96	650198	17.1	
64 sec-Butyl Alcohol	45	6.362	6.362	0.0	76	770391	318.1	
71 Tetrahydrofuran	42	6.519	6.519	0.0	93	143801	18.3	
74 Cyclohexane	56	6.867	6.867	0.0	95	1208703	10.6	
77 Tert-amyl methyl ether	73	7.372	7.372	0.0	96	6658427	48.4	
82 2-Pentanone	43	8.295	8.295	0.0	96	1029920	39.6	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Methylcyclohexane	55	8.330	8.330	0.0	94	1135113	10.6	
83 Methyl methacrylate	100	8.486	8.486	0.0	75	173721	18.3	
90 2-Nitropropane	41	9.061	9.061	0.0	88	71118	9.62	
89 2-Chloroethyl vinyl ether	63	9.131	9.131	0.0	87	241750	10.9	
94 Ethyl methacrylate	69	10.262	10.262	0.0	96	1077303	18.9	
101 Tetrahydrothiophene	60	11.080	11.080	0.0	97	144341	8.79	
112 cis-1,4-Dichloro-2-butene	53	13.326	13.326	0.0	0	69154	9.82	
115 trans-1,4-Dichloro-2-butene	53	13.674	13.674	0.0	92	87502	9.92	
127 1,2,3-Trimethylbenzene	105	14.789	14.789	0.0	99	1743119	9.17	

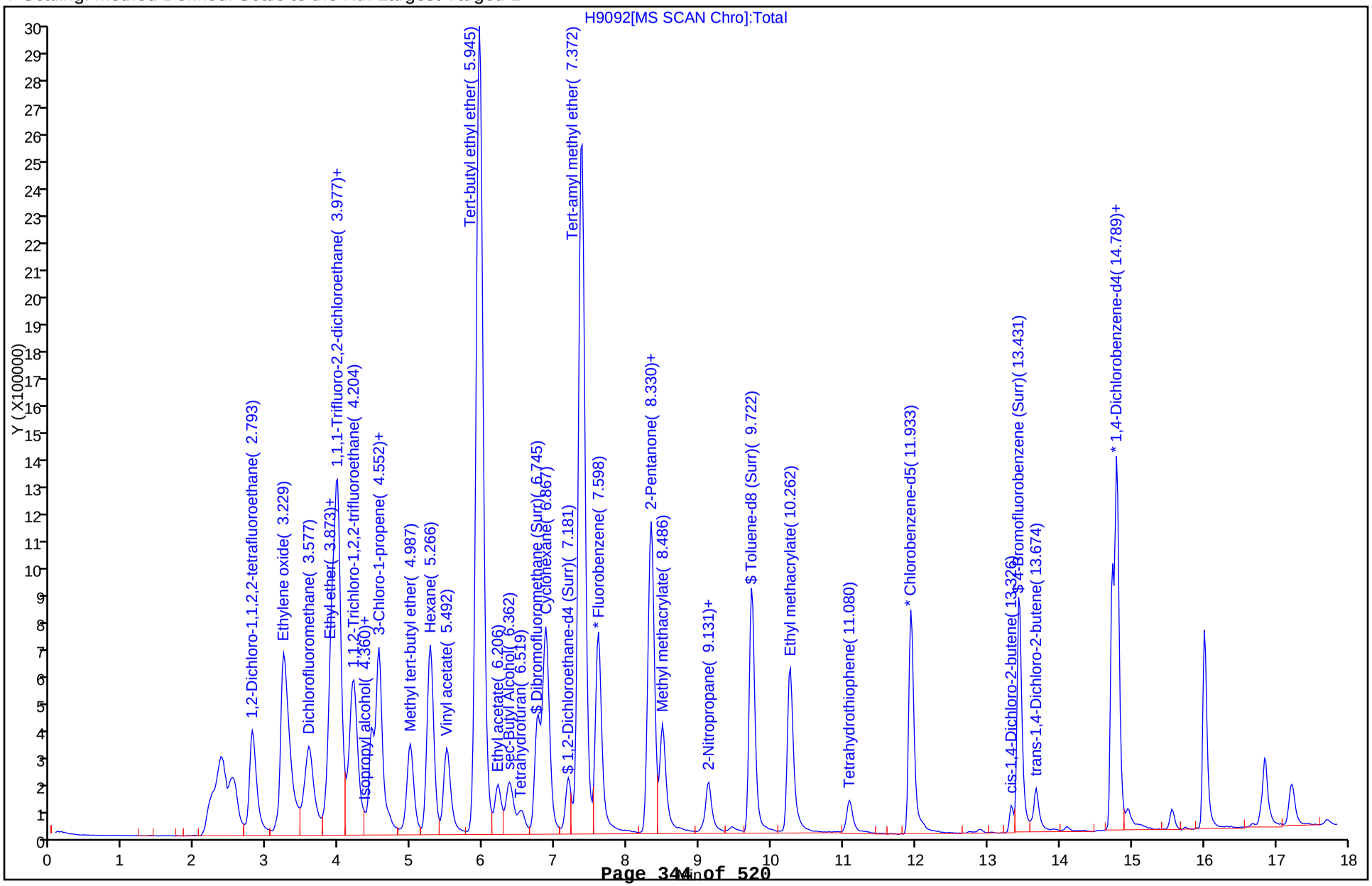
Report Date: 12-Dec-2012 05:43:31 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9092.D

Injection Date:	11-Dec-2012 06:15:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	3
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8879.D		
Lims ID:	bfb	Client ID:	
Inject. Date:	03-Dec-2012 13:57:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	bfb		
Misc. Info.:			
Operator:	meierg	Instrument ID:	VMS_H
Purge Vol:	20.000 mL	ALS Bottle#:	100
Lims Batch ID:	150224	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\AQ_VMSH_8260.m		
Last Update:	04-Dec-2012 06:01:12	Calib Date:	03-Dec-2012 18:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Limit Group:	MSV - 8260B Water and Solid		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Process Host:	DENPC186		

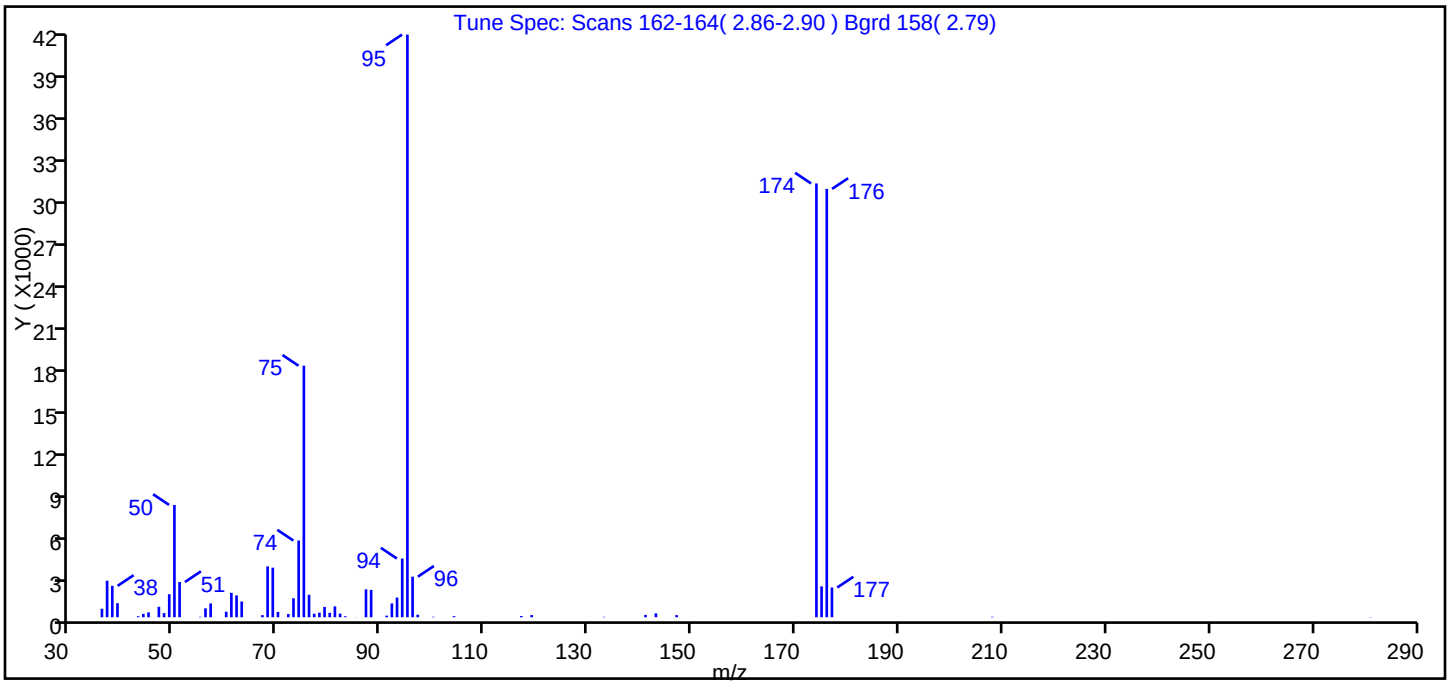
Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	2.880	2.880	0.0	87	185431	0	

MS Tune Report

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8879.D		
Injection Date:	03-Dec-2012 13:57:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150224	Lims Sample ID:	1
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Tune Method:	BFB Method 8260		

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.28
75	30.00 - 60.00% of mass 95	43.17
96	5.00 - 9.00% of mass 95	6.97
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	74.45
175	5.00 - 9.00% of mass 174	5.30 (7.12)
176	95.00 - 101.00% of mass 174	73.52 (98.75)
177	5.00 - 9.00% of mass 176	5.11 (6.95)

Data File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8879.D\AQ_VMSH_8260.rslt\spectra.d
Injection Date: 03-Dec-2012 13:57:30
Spectrum: Tune Spec: Scans 162-164(2.86-2.90) Bgrd 158(2.79)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	602	60.00	393	79.00	731	100.00	35
37.00	2584	61.00	1725	80.00	308	104.00	76
38.00	2219	62.00	1543	81.00	768	117.00	87
39.00	996	63.00	1113	82.00	256	119.00	155
43.00	70	67.00	149	83.00	70	133.00	30
44.00	239	68.00	3595	85.00	11	141.00	168
45.00	344	69.00	3503	87.00	1968	143.00	276
47.00	738	70.00	377	88.00	1933	147.00	150
48.00	292	72.00	227	91.00	114	174.00	30656
49.00	1627	73.00	1340	92.00	979	175.00	2182
50.00	7939	74.00	5422	93.00	1394	176.00	30272
51.00	2489	75.00	17776	94.00	4150	177.00	2103
55.00	33	76.00	1588	95.00	41176	208.00	36
56.00	628	77.00	245	96.00	2868	209.00	2
57.00	978	78.00	323	97.00	179	281.00	17

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20121204-7000.b\H8917.D		
Lims ID:	bfb	Client ID:	
Inject. Date:	04-Dec-2012 07:51:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	bfb		
Misc. Info.:			
Operator:	meierg	Instrument ID:	VMS_H
Purge Vol:	20.000 mL	ALS Bottle#:	100
Lims Batch ID:	150267	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Denchrom\ChromData\VMS_H\20121204-7000.b\AQ_VMSH_8260.m		
Last Update:	05-Dec-2012 05:43:58	Calib Date:	03-Dec-2012 18:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Limit Group:	MSV - 8260B Water and Solid		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Process Host:	DENPC186		

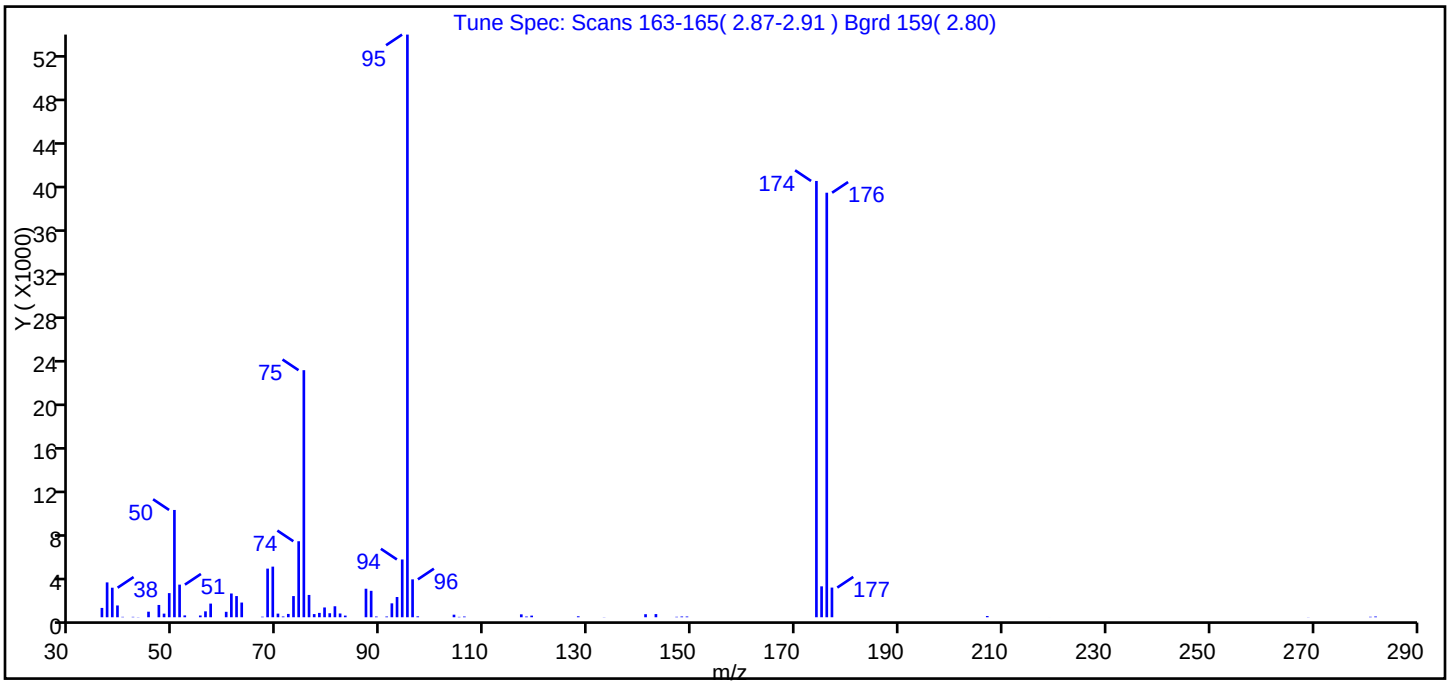
Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	2.891	2.891	0.0	87	240030	0	

MS Tune Report

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20121204-7000.b\H8917.D		
Injection Date:	04-Dec-2012 07:51:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	150267	Lims Sample ID:	1
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Tune Method:	BFB Method 8260		

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.42
75	30.00 - 60.00% of mass 95	42.40
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	74.88
175	5.00 - 9.00% of mass 174	5.31 (7.09)
176	95.00 - 101.00% of mass 174	72.86 (97.31)
177	5.00 - 9.00% of mass 176	5.09 (6.99)

Data File: \\Denchrom\ChromData\VMS_H\20121204-7000.b\H8917.D\AQ_VMSH_8260.rslt\spectra.d
Injection Date: 04-Dec-2012 07:51:30
Spectrum: Tune Spec: Scans 163-165(2.87-2.91) Bgrd 159(2.80)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	865	61.00	2202	82.00	350	128.00	90
37.00	3230	62.00	1963	83.00	154	133.00	14
38.00	2737	63.00	1363	87.00	2643	141.00	283
39.00	1093	67.00	51	88.00	2449	143.00	294
40.00	39	68.00	4506	89.00	69	147.00	44
42.00	39	69.00	4690	91.00	70	148.00	72
43.00	17	70.00	337	92.00	1289	149.00	71
45.00	515	71.00	73	93.00	1875	174.00	40416
47.00	1140	72.00	309	94.00	5353	175.00	2864
48.00	336	73.00	1962	95.00	53976	176.00	39328
49.00	2236	74.00	7042	96.00	3511	177.00	2750
50.00	9940	75.00	22888	97.00	83	207.00	113
51.00	3022	76.00	2067	104.00	239	219.00	1
52.00	171	77.00	294	105.00	37	269.00	11
55.00	162	78.00	403	106.00	68	281.00	45
56.00	548	79.00	907	117.00	269	282.00	70
57.00	1265	80.00	372	118.00	69		
60.00	505	81.00	1018	119.00	152		

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20121211-7200.b\H9090.D		
Lims ID:	bfb	Client ID:	
Inject. Date:	11-Dec-2012 05:45:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	bfb		
Misc. Info.:			
Operator:	meierg	Instrument ID:	VMS_H
Purge Vol:	20.000 mL	ALS Bottle#:	100
Lims Batch ID:	151489	Lims Sample ID:	1
Detector:	MS SCAN		
Method:	\\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m		
Last Update:	12-Dec-2012 05:43:29	Calib Date:	03-Dec-2012 18:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Limit Group:	MSV - 8260B Water and Solid		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Process Host:	XAWRK027		

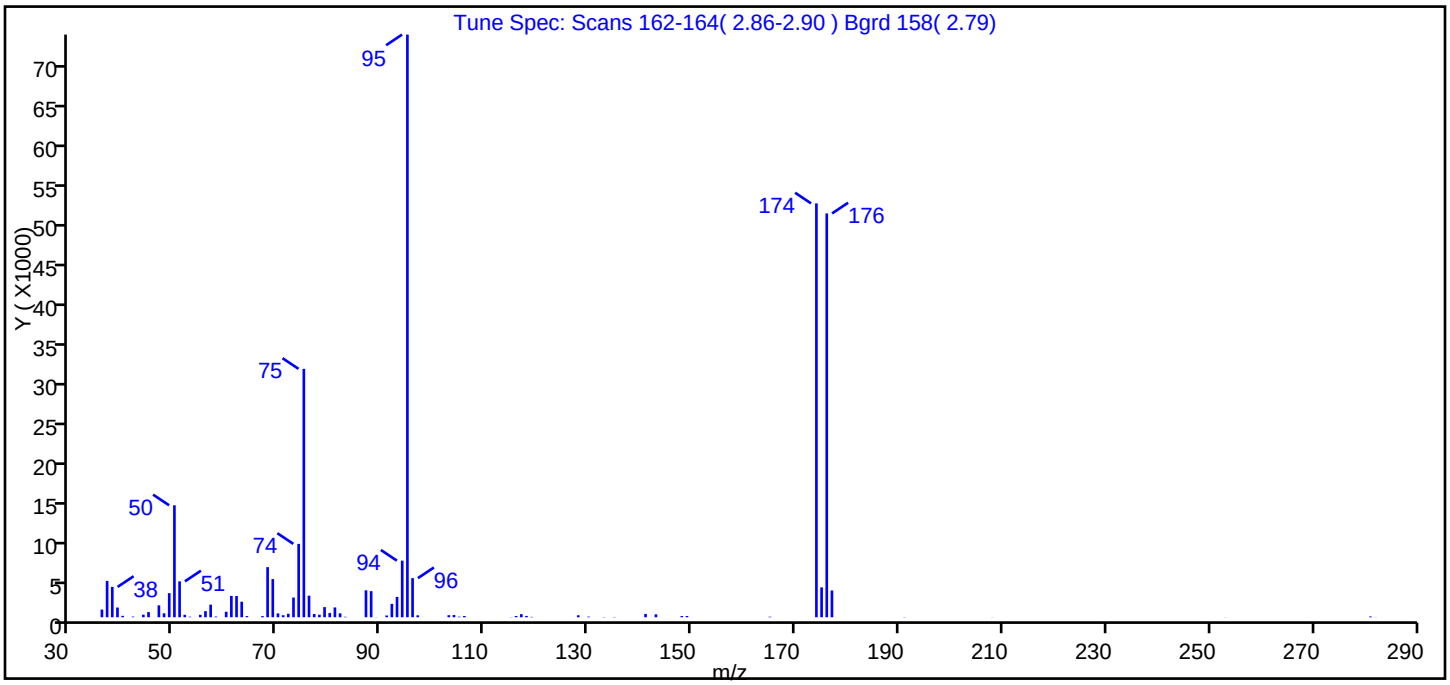
Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
$ 4 BFB	95	2.880	2.880	0.0	86	324916	0	

MS Tune Report

TestAmerica Denver

Data File:	\\Denchrom\ChromData\VMS_H\20121211-7200.b\H9090.D		
Injection Date:	11-Dec-2012 05:45:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	1
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Tune Method:	BFB Method 8260		

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.22
75	30.00 - 60.00% of mass 95	42.63
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	71.03
175	5.00 - 9.00% of mass 174	5.12 (7.21)
176	95.00 - 101.00% of mass 174	69.31 (97.58)
177	5.00 - 9.00% of mass 176	4.59 (6.62)

Report Date: 12-Dec-2012 05:43:29 Chrom Revision: 2.0 05-Dec-2012 19:13:16

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9090.D\AQ_VMSH_8260.rslt\spectra.d
Injection Date: 11-Dec-2012 05:45:30
Spectrum: Tune Spec: Scans 162-164(2.86-2.90) Bgrd 158(2.79)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	973	61.00	2710	83.00	61	128.00	251
37.00	4611	62.00	2702	87.00	3413	130.00	81
38.00	3850	63.00	1971	88.00	3311	133.00	30
39.00	1232	64.00	149	89.00	20	135.00	36
40.00	183	67.00	145	91.00	227	141.00	419
42.00	84	68.00	6358	92.00	1701	143.00	371
44.00	329	69.00	4839	93.00	2581	148.00	152
45.00	657	70.00	489	94.00	7179	149.00	157
47.00	1510	71.00	258	95.00	73896	165.00	71
48.00	500	72.00	442	96.00	4960	174.00	52488
49.00	3060	73.00	2500	97.00	244	175.00	3787
50.00	14200	74.00	9307	103.00	259	176.00	51216
51.00	4554	75.00	31504	104.00	280	177.00	3393
52.00	306	76.00	2738	105.00	73	191.00	27
53.00	69	77.00	415	106.00	163	208.00	16
55.00	307	78.00	319	115.00	23	253.00	15
56.00	778	79.00	1287	116.00	159	269.00	5
57.00	1599	80.00	538	117.00	389	281.00	100
58.00	90	81.00	1244	118.00	166	282.00	17
60.00	697	82.00	500	119.00	50		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-151489/6

Matrix: Water | Lab File ID: H9095.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 07:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.9	U	10	1.9
71-43-2	Benzene	0.16	U	1.0	0.16
108-86-1	Bromobenzene	0.17	U	1.0	0.17
75-27-4	Bromodichloromethane	0.17	U	1.0	0.17
75-25-2	Bromoform	0.19	U	1.0	0.19
74-83-9	Bromomethane	0.21	U	2.0	0.21
78-93-3	2-Butanone (MEK)	2.0	U	6.0	2.0
56-23-5	Carbon tetrachloride	0.19	U	1.0	0.19
108-90-7	Chlorobenzene	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.10	U	1.0	0.10
124-48-1	Dibromochloromethane	0.17	U	1.0	0.17
75-00-3	Chloroethane	0.41	U	2.0	0.41
67-66-3	Chloroform	0.16	U	1.0	0.16
74-87-3	Chloromethane	0.30	U	2.0	0.30
95-49-8	2-Chlorotoluene	0.17	U	1.0	0.17
106-43-4	4-Chlorotoluene	0.21	U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	0.47	U	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	0.18	U	1.0	0.18
74-95-3	Dibromomethane	0.17	U	1.0	0.17
95-50-1	1,2-Dichlorobenzene	0.15	U	1.0	0.15
541-73-1	1,3-Dichlorobenzene	0.13	U	1.0	0.13
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
75-71-8	Dichlorodifluoromethane	0.31	U	2.0	0.31
75-34-3	1,1-Dichloroethane	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.13	U	1.0	0.13
75-35-4	1,1-Dichloroethene	0.23	U	1.0	0.23
540-59-0	1,2-Dichloroethene, Total	0.24	U	1.0	0.24
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
142-28-9	1,3-Dichloropropane	0.22	U	1.0	0.22
594-20-7	2,2-Dichloropropane	0.18	U	1.0	0.18
563-58-6	1,1-Dichloropropene	0.19	U	1.0	0.19
100-41-4	Ethylbenzene	0.16	U	1.0	0.16
87-68-3	Hexachlorobutadiene	0.36	U	1.0	0.36
591-78-6	2-Hexanone	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-151489/6

Matrix: Water | Lab File ID: H9095.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 07:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	0.19	U	1.0	0.19
99-87-6	4-Isopropyltoluene	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.32	U	2.0	0.32
108-10-1	4-Methyl-2-pentanone	0.98	U	5.0	0.98
1634-04-4	Methyl tert-butyl ether	0.25	U	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	0.34	U	2.0	0.34
91-20-3	Naphthalene	0.257	J	1.0	0.22
104-51-8	n-Butylbenzene	0.32	U	1.0	0.32
103-65-1	n-Propylbenzene	0.16	U	1.0	0.16
95-47-6	o-Xylene	0.19	U	1.0	0.19
135-98-8	sec-Butylbenzene	0.17	U	1.0	0.17
100-42-5	Styrene	0.17	U	1.0	0.17
98-06-6	tert-Butylbenzene	0.16	U	1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	0.21	U	1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	0.21	U	1.0	0.21
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.17	U	1.0	0.17
156-60-5	trans-1,2-Dichloroethene	0.15	U	1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	0.19	U	3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.213	J	1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	0.21	U	1.0	0.21
71-55-6	1,1,1-Trichloroethane	0.16	U	1.0	0.16
79-00-5	1,1,2-Trichloroethane	0.27	U	1.0	0.27
79-01-6	Trichloroethene	0.16	U	1.0	0.16
75-69-4	Trichlorofluoromethane	0.29	U	2.0	0.29
96-18-4	1,2,3-Trichloropropane	0.33	U	2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	0.15	U	1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	0.16	U	1.0	0.16
75-01-4	Vinyl chloride	0.10	U	1.0	0.10
1330-20-7	Xylenes, Total	0.19	U	2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-151489/6

Matrix: Water Lab File ID: H9095.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 07:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		78-120
1868-53-7	Dibromofluoromethane (Surr)	102		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-127
2037-26-5	Toluene-d8 (Surr)	100		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9095.D
Lims ID: mb Client ID:
Inject. Date: 11-Dec-2012 07:21:30 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: mb
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 5
Lims Batch ID: 151489 Lims Sample ID: 6
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 13-Dec-2012 10:12:38 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK007

First Level Reviewer: meierg Date: 13-Dec-2012 10:12:38

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.596	7.598	-0.002	98	2024390	12.5	
* 2 Chlorobenzene-d5	119	11.931	11.933	-0.002	88	432823	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.734	14.736	-0.002	96	690319	12.5	
$ 4 BFB	95	2.860	2.880	-0.020	0	486	0	
$ 5 Dibromofluoromethane (Surr)	111	6.760	6.745	0.015	72	854507	9.18	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.178	7.181	-0.003	94	367574	9.05	
$ 7 Toluene-d8 (Surr)	98	9.720	9.722	-0.002	93	1895057	8.99	
$ 8 4-Bromofluorobenzene (Surr)	95	13.445	13.431	0.014	86	980563	8.82	
20 2-Methylhexane	1		0.000					
21 2-Butoxyethanol TIC	1		0.000					
15 Dimethyl disulfide	1		0.000					
13 2,2-Dimethylpentane	1		0.000					
11 2,3-Dimethylpentane	1		0.000					
9 2,4-Dimethylpentane	1		0.000					
10 n-Nonyl Aldehyde	1		0.000					
17 3-Ethylpentane	1		0.000					
12 2,2,3-Trimethylbutane	1		0.000					
18 3,3-Dimethylpentane	1		0.000					
19 3-Methylhexane	1		0.000					
16 1,3,5-Trichlorobenzene	180		0.000					
14 n-Heptane	43		0.000					
22 2,3-dichloro-1-propene TIC	75		1.000					
23 Dichloroacetonitrile TIC	74		1.000					
24 Chlorotrifluoroethene	116		2.595					
25 Dichlorodifluoromethane	85		2.648					
26 1,2-Dichloro-1,1,2,2-tetrafluoro	85		2.793					
28 Chloromethane	50		2.804					
29 Vinyl chloride	62		2.961					
27 2-Chloro-1,1,1-Trifluoroethane	118		3.012					
30 Ethylene oxide	43		3.229					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
31 Bromomethane	94		3.274					
32 Chloroethane	64		3.344					
33 Dichlorofluoromethane	67		3.577					
34 Trichlorofluoromethane	101		3.692					
35 Ethanol	45		3.814					
37 Ethyl ether	59		3.873					
38 1,2-Dichloro-1,1,2-trifluoroetha	117		3.908					
40 Propene oxide	58		3.977					
39 1,1,1-Trifluoro-2,2-dichloroetha	83		3.977					
41 Acrolein	56		4.058					
45 1,1-Dichloroethene	96		4.162					
42 1,1,2-Trichloro-1,2,2-trifluoroe	151		4.204					
43 Acetone	43		4.215					
46 Iodomethane	142		4.354					
44 Isopropyl alcohol	45		4.360					
50 Carbon disulfide	76		4.447					
47 Methyl acetate	43		4.552					19
49 3-Chloro-1-propene	41		4.552					
48 Acetonitrile	41		4.563					
52 Methylene Chloride	84		4.685					
51 2-Methyl-2-propanol	59		4.789					
53 Acrylonitrile	53		4.963					
54 Methyl tert-butyl ether	73		4.987					
55 trans-1,2-Dichloroethene	96		4.998					19
56 Hexane	57		5.266					
36 Propene oxide TIC	58		5.334					
59 1,1-Dichloroethane	63		5.468					
57 Vinyl acetate	43		5.492					
58 Isopropyl ether	87		5.503					
60 2-Chloro-1,3-butadiene	53		5.573					
61 Tert-butyl ethyl ether	59		5.945					19
65 cis-1,2-Dichloroethene	96		6.164					
63 2-Butanone (MEK)	43		6.164					
67 2,2-Dichloropropane	77		6.182					
62 Ethyl acetate	43		6.206					
66 Propionitrile	54		6.269					
64 sec-Butyl Alcohol	45		6.362					
68 Methacrylonitrile	41		6.426					
69 Chlorobromomethane	128		6.478					
71 Tetrahydrofuran	42		6.519					19
70 Chloroform	83		6.547					19
73 1,1,1-Trichloroethane	97		6.791					
74 Cyclohexane	56		6.867					
75 1,1-Dichloropropene	75		6.983					
76 Carbon tetrachloride	117		7.000					
72 Isobutyl alcohol	41		7.087					
79 Benzene	78		7.244					
78 1,2-Dichloroethane	62		7.279					
77 Tert-amyl methyl ether	73		7.372					
80 n-Butanol	56		7.958					
81 Trichloroethene	95		8.080					
82 2-Pentanone	43		8.295					

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
84 Methylcyclohexane	55		8.330					
85 1,2-Dichloropropane	63		8.375					
83 Methyl methacrylate	100		8.486					
87 Dibromomethane	93		8.550					
86 1,4-Dioxane	88		8.567					
88 Dichlorobromomethane	83		8.741					
90 2-Nitropropane	41		9.061					
89 2-Chloroethyl vinyl ether	63		9.131					
91 cis-1,3-Dichloropropene	75		9.350					
92 4-Methyl-2-pentanone (MIBK)	43		9.559					19
93 Toluene	91		9.820					19
95 trans-1,3-Dichloropropene	75		10.134					
94 Ethyl methacrylate	69		10.262					19
96 1,1,2-Trichloroethane	97		10.447					19
99 Tetrachloroethene	164		10.674					
98 1,3-Dichloropropane	76		10.726					
97 2-Hexanone	43		10.848					19
101 Tetrahydrothiophene	60		11.080					
100 Chlorodibromomethane	129		11.091					
102 Ethylene Dibromide	107		11.283					
103 1-Chlorohexane	91		11.910					
104 Chlorobenzene	112		11.979					
106 1,1,1,2-Tetrachloroethane	131		12.084					
105 Ethylbenzene	106		12.119					
107 m-Xylene & p-Xylene	106		12.275					
109 o-Xylene	106		12.780					
108 Styrene	104		12.797					19
110 Bromoform	173		13.059					
111 Isopropylbenzene	105		13.233					
112 cis-1,4-Dichloro-2-butene	53		13.326					
113 Cyclohexanone	55		13.372					
118 Bromobenzene	156		13.616					
114 1,1,2,2-Tetrachloroethane	83		13.616					
116 1,2,3-Trichloropropane	110		13.668					
115 trans-1,4-Dichloro-2-butene	53		13.674					
117 N-Propylbenzene	120		13.720					149
120 2-Chlorotoluene	126		13.842					
119 1,3,5-Trimethylbenzene	105		13.929					
121 4-Chlorotoluene	126		13.964					
122 tert-Butylbenzene	119		14.295					
123 1,2,4-Trimethylbenzene	105		14.347					
124 sec-Butylbenzene	134		14.521					
126 1,3-Dichlorobenzene	146		14.660					19
125 4-Isopropyltoluene	119		14.678					
128 1,4-Dichlorobenzene	146		14.747					
127 1,2,3-Trimethylbenzene	105		14.789					19
129 n-Butylbenzene	91		15.096					
130 1,2-Dichlorobenzene	146		15.148					
131 1,2-Dibromo-3-Chloropropane	157		15.914					
132 1,2,4-Trichlorobenzene	180		16.680					
133 Hexachlorobutadiene	225		16.819					
134 Naphthalene	128	16.927	16.924	0.003	54	21291	0.2571	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
135 1,2,3-Trichlorobenzene	180	17.188	17.167	0.021	32	14269	0.2131	
S 139 1,3-Dichloropropene, Total	1				0		0	7
S 140 1,2-Dichloroethene, Total	1				0		0	7
S 141 Xylenes, Total	106				0		0	7
S 136 Trihalomethanes, Total	1				0		0	7
S 137 Xylenes, Total (URS)	1				0		0	7
S 138 Total BTEX	1		0.000					7
S 142 1,2-Dichloroethene, Total (URS)	96				0		0	7

QC Flag Legend

Processing Flags
1 - Missing Peaks
4 - Failed Signal Ratio Test
7 - Failed Limit of Detection
9 - Failed A Reference Spectral Test

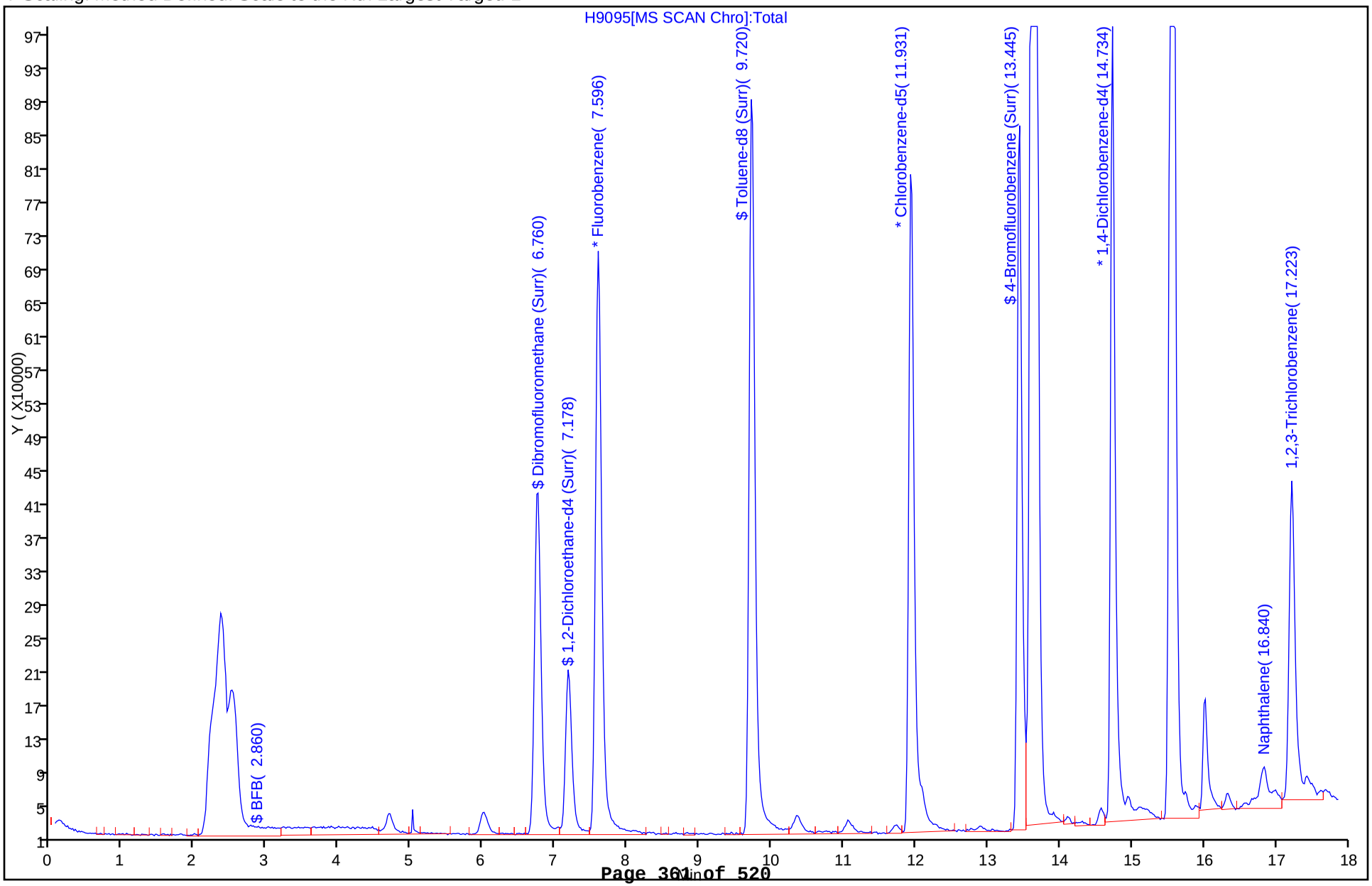
Report Date: 13-Dec-2012 10:12:39 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9095.D

Injection Date:	11-Dec-2012 07:21:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	6
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



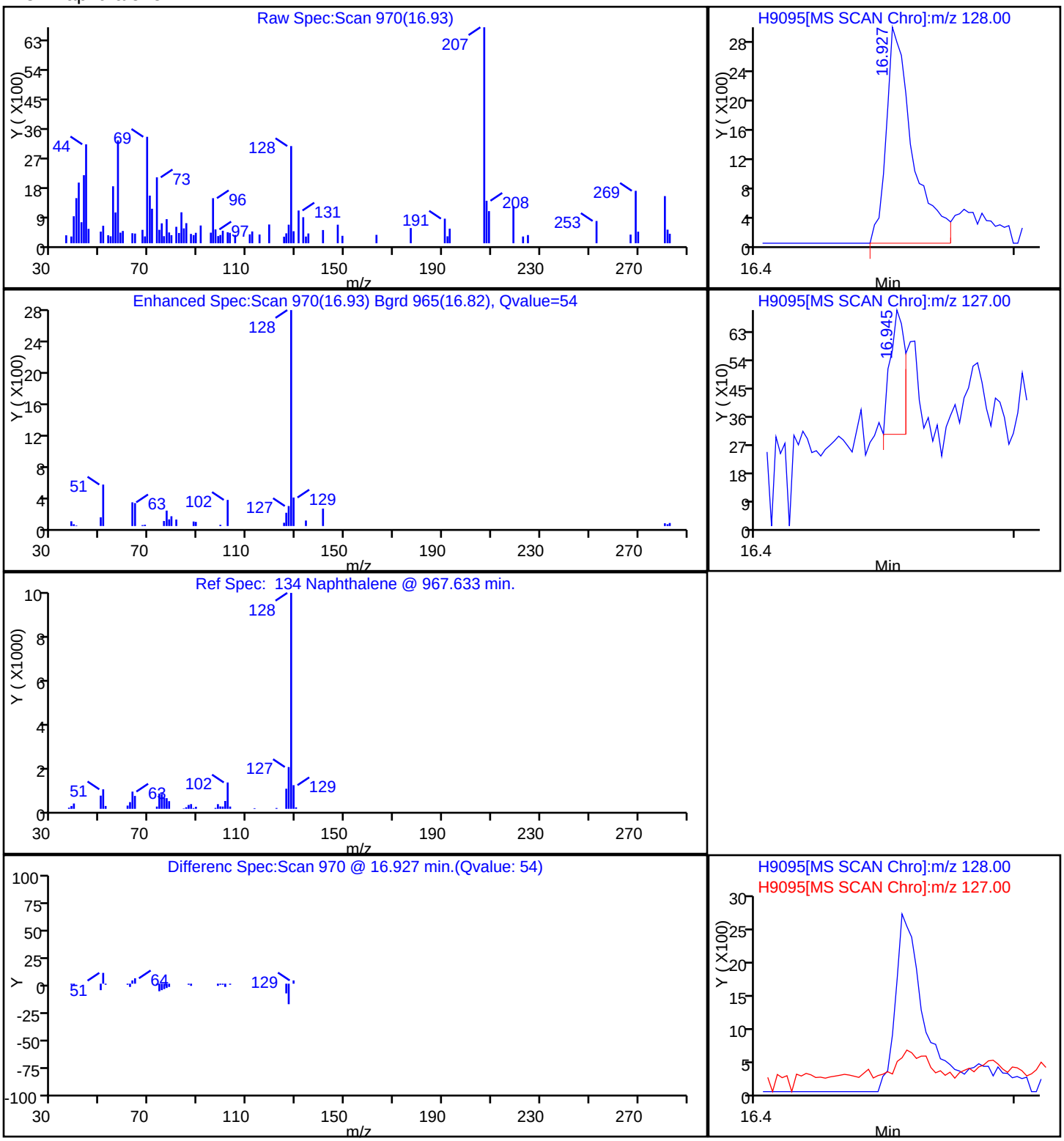
Report Date: 13-Dec-2012 10:12:39 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9095.D

Injection Date:	11-Dec-2012 07:21:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	6
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

134 Naphthalene



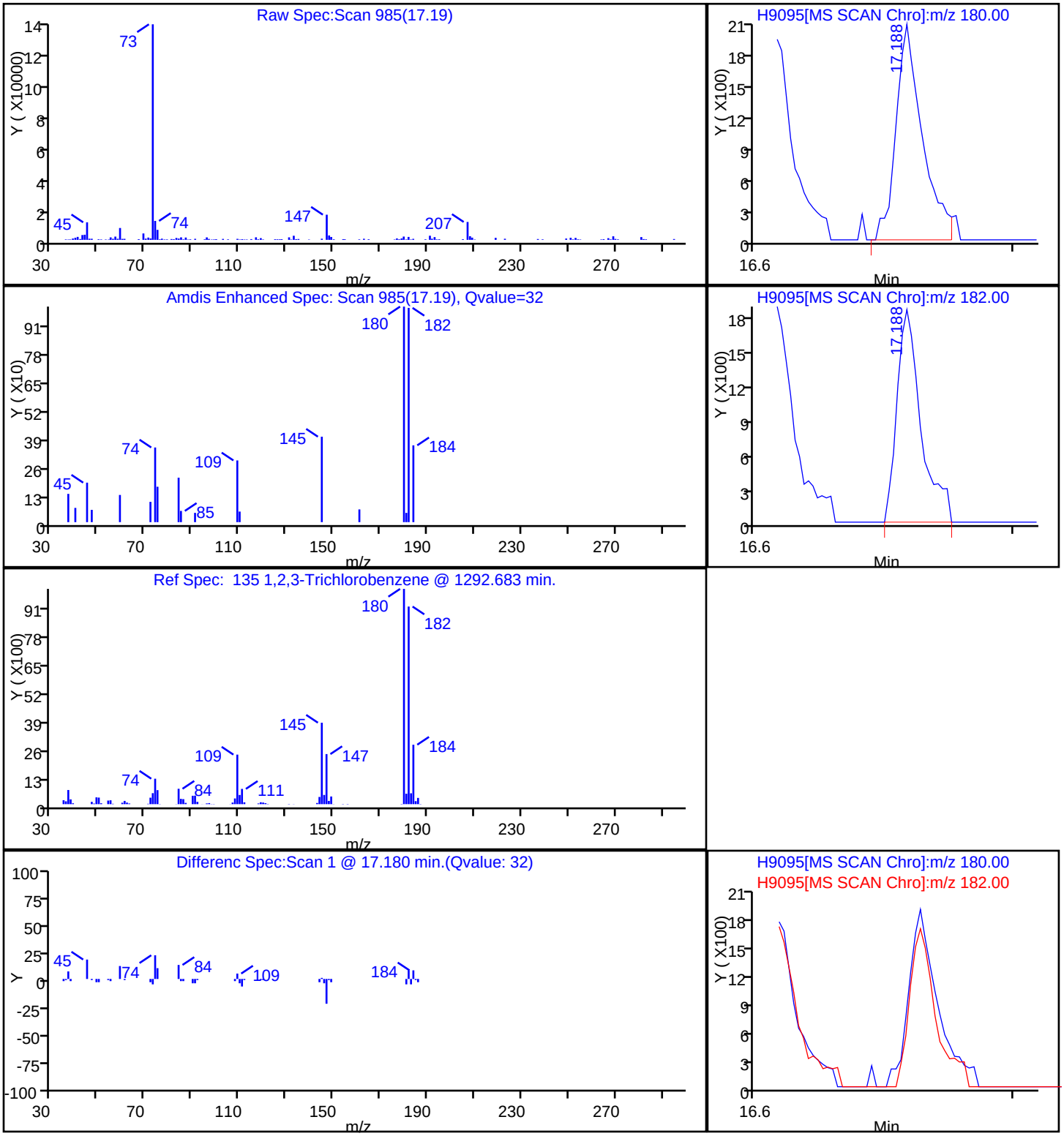
Report Date: 13-Dec-2012 10:12:39 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9095.D

Injection Date:	11-Dec-2012 07:21:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	6
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

135 1,2,3-Trichlorobenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-151489/4

Matrix: Water | Lab File ID: H9093.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 06:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	18.6		10	1.9
71-43-2	Benzene	4.57		1.0	0.16
108-86-1	Bromobenzene	4.19		1.0	0.17
75-27-4	Bromodichloromethane	4.46		1.0	0.17
75-25-2	Bromoform	4.02		1.0	0.19
74-83-9	Bromomethane	4.10		2.0	0.21
78-93-3	2-Butanone (MEK)	16.7		6.0	2.0
56-23-5	Carbon tetrachloride	4.71		1.0	0.19
108-90-7	Chlorobenzene	4.35		1.0	0.17
74-97-5	Bromochloromethane	4.50		1.0	0.10
124-48-1	Dibromochloromethane	4.33		1.0	0.17
75-00-3	Chloroethane	4.50		2.0	0.41
67-66-3	Chloroform	4.63		1.0	0.16
74-87-3	Chloromethane	3.96		2.0	0.30
95-49-8	2-Chlorotoluene	4.22		1.0	0.17
106-43-4	4-Chlorotoluene	4.50		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.38		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.46		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	3.90	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.27		1.0	0.18
74-95-3	Dibromomethane	4.28		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.31		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.47		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.17		1.0	0.16
75-71-8	Dichlorodifluoromethane	3.18		2.0	0.31
75-34-3	1,1-Dichloroethane	4.71		1.0	0.22
107-06-2	1,2-Dichloroethane	4.55		1.0	0.13
75-35-4	1,1-Dichloroethene	4.72		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	8.96		1.0	0.24
78-87-5	1,2-Dichloropropane	4.75		1.0	0.18
142-28-9	1,3-Dichloropropane	4.21		1.0	0.22
594-20-7	2,2-Dichloropropane	4.77		1.0	0.18
563-58-6	1,1-Dichloropropene	4.42		1.0	0.19
100-41-4	Ethylbenzene	4.33		1.0	0.16
87-68-3	Hexachlorobutadiene	4.71		1.0	0.36
591-78-6	2-Hexanone	17.3		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-151489/4

Matrix: Water | Lab File ID: H9093.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 06:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	4.39		1.0	0.19
99-87-6	4-Isopropyltoluene	4.46		1.0	0.20
75-09-2	Methylene Chloride	4.42		2.0	0.32
108-10-1	4-Methyl-2-pentanone	19.6		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.43	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	8.85		2.0	0.34
91-20-3	Naphthalene	4.17		1.0	0.22
104-51-8	n-Butylbenzene	4.36		1.0	0.32
103-65-1	n-Propylbenzene	4.35		1.0	0.16
95-47-6	o-Xylene	4.34		1.0	0.19
135-98-8	sec-Butylbenzene	4.40		1.0	0.17
100-42-5	Styrene	4.33		1.0	0.17
98-06-6	tert-Butylbenzene	4.43		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.31		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.19		1.0	0.21
127-18-4	Tetrachloroethene	4.44		1.0	0.20
108-88-3	Toluene	4.49		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.57		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.63		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.12		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.36		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.64		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.50		1.0	0.27
79-01-6	Trichloroethene	4.36		1.0	0.16
75-69-4	Trichlorofluoromethane	4.24		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.36		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	4.22		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.28		1.0	0.16
75-01-4	Vinyl chloride	4.07		1.0	0.10
1330-20-7	Xylenes, Total	13.2		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-151489/4

Matrix: Water Lab File ID: H9093.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 06:37

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		78-120
1868-53-7	Dibromofluoromethane (Surr)	100		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
2037-26-5	Toluene-d8 (Surr)	106		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9093.D
Lims ID: lcs Client ID:
Inject. Date: 11-Dec-2012 06:37:30 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: lcs
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 3
Lims Batch ID: 151489 Lims Sample ID: 4
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 07:17:47

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.596	7.598	-0.002	98	2008546	12.5	
* 2 Chlorobenzene-d5	119	11.948	11.933	0.015	88	413956	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.734	14.736	-0.002	96	707814	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.760	6.745	0.015	59	829631	8.98	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.178	7.181	-0.003	91	380023	9.43	
$ 7 Toluene-d8 (Surr)	98	9.720	9.722	-0.002	91	1917321	9.51	
$ 8 4-Bromofluorobenzene (Surr)	95	13.445	13.431	0.014	85	961634	8.44	
25 Dichlorodifluoromethane	85	2.651	2.648	0.003	99	267557	3.18	
28 Chloromethane	50	2.808	2.804	0.004	88	202101	3.96	
29 Vinyl chloride	62	2.965	2.961	0.004	82	203312	4.07	
31 Bromomethane	94	3.295	3.274	0.021	90	177471	4.10	
32 Chloroethane	64	3.348	3.344	0.004	95	142356	4.50	
34 Trichlorofluoromethane	101	3.696	3.692	0.004	86	416755	4.24	
45 1,1-Dichloroethene	96	4.166	4.162	0.004	88	228020	4.72	
42 1,1,2-Trichloro-1,2,2-trifluoroe	151	4.201	4.204	-0.003	89	360821	5.23	
43 Acetone	43	4.218	4.215	0.003	57	96221	18.6	
46 Iodomethane	142	4.375	4.354	0.021	97	451271	5.11	
50 Carbon disulfide	76	4.445	4.447	-0.002	99	777232	4.45	
52 Methylene Chloride	84	4.688	4.685	0.003	91	253660	4.42	
51 2-Methyl-2-propanol	59	4.793	4.789	0.004	98	237256	107.4	
54 Methyl tert-butyl ether	73	4.984	4.987	-0.003	91	461538	4.43	
55 trans-1,2-Dichloroethene	96	5.002	4.998	0.004	96	287559	4.57	
56 Hexane	57	5.263	5.266	-0.003	95	492623	4.88	
59 1,1-Dichloroethane	63	5.489	5.468	0.021	84	525340	4.71	
57 Vinyl acetate	43	5.507	5.492	0.015	90	415265	5.32	
65 cis-1,2-Dichloroethene	96	6.168	6.164	0.004	72	286156	4.38	
63 2-Butanone (MEK)	43	6.168	6.164	0.004	50	202057	16.7	
67 2,2-Dichloropropane	77	6.185	6.182	0.003	81	412074	4.77	
64 sec-Butyl Alcohol	45	6.377	6.362	0.015	96	345728	144.4	
69 Chlorobromomethane	128	6.481	6.478	0.003	72	124292	4.50	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
70 Chloroform	83	6.551	6.547	0.004	93	517759	4.63	
73 1,1,1-Trichloroethane	97	6.795	6.791	0.004	91	457653	4.64	
75 1,1-Dichloropropene	75	6.986	6.983	0.003	89	435316	4.42	
76 Carbon tetrachloride	117	7.004	7.000	0.004	83	404861	4.71	
79 Benzene	78	7.265	7.244	0.021	96	857620	4.57	
78 1,2-Dichloroethane	62	7.282	7.279	0.003	71	206043	4.55	
81 Trichloroethene	95	8.083	8.080	0.004	98	340151	4.36	
82 2-Pentanone	43	8.309	8.295	0.014	95	209007	8.13	
85 1,2-Dichloropropane	63	8.379	8.375	0.004	96	319732	4.75	
87 Dibromomethane	93	8.571	8.550	0.021	90	162329	4.28	
88 Dichlorobromomethane	83	8.745	8.741	0.004	92	436226	4.46	
89 2-Chloroethyl vinyl ether	63	9.128	9.131	-0.003	86	106878	4.90	
91 cis-1,3-Dichloropropene	75	9.354	9.350	0.004	84	407485	4.46	
92 4-Methyl-2-pentanone (MIBK)	43	9.563	9.559	0.004	95	700686	19.6	
93 Toluene	91	9.824	9.820	0.004	98	980083	4.49	
95 trans-1,3-Dichloropropene	75	10.155	10.134	0.021	93	294888	4.63	
96 1,1,2-Trichloroethane	97	10.451	10.447	0.004	85	196558	4.50	
99 Tetrachloroethene	164	10.677	10.674	0.003	92	326847	4.44	
98 1,3-Dichloropropane	76	10.729	10.726	0.003	93	306442	4.21	
97 2-Hexanone	43	10.851	10.848	0.003	96	433168	17.3	
100 Chlorodibromomethane	129	11.095	11.091	0.004	89	298897	4.33	
102 Ethylene Dibromide	107	11.286	11.283	0.003	96	233843	4.27	
103 1-Chlorohexane	91	11.913	11.910	0.003	84	476915	4.63	
104 Chlorobenzene	112	11.983	11.979	0.004	90	634448	4.35	
106 1,1,1,2-Tetrachloroethane	131	12.087	12.084	0.003	90	291359	4.31	
105 Ethylbenzene	106	12.122	12.119	0.003	99	330483	4.33	
107 m-Xylene & p-Xylene	106	12.279	12.275	0.004	0	893707	8.85	
109 o-Xylene	106	12.784	12.780	0.004	91	398464	4.34	
108 Styrene	104	12.801	12.797	0.004	87	624807	4.33	
110 Bromoform	173	13.062	13.059	0.003	96	180716	4.02	
111 Isopropylbenzene	105	13.236	13.233	0.003	95	1218566	4.39	
113 Cyclohexanone	55	13.376	13.372	0.004	90	95530	114.8	
118 Bromobenzene	156	13.619	13.616	0.003	86	292864	4.19	
114 1,1,2,2-Tetrachloroethane	83	13.602	13.616	-0.014	48	241087	4.19	
116 1,2,3-Trichloropropane	110	13.672	13.668	0.004	75	54302	4.36	
115 trans-1,4-Dichloro-2-butene	53	13.672	13.674	-0.002	79	264095	29.7	
117 N-Propylbenzene	120	13.724	13.720	0.004	86	291415	4.35	
120 2-Chlorotoluene	126	13.846	13.842	0.004	92	230813	4.22	
119 1,3,5-Trimethylbenzene	105	13.933	13.929	0.004	93	888419	4.28	
121 4-Chlorotoluene	126	13.968	13.964	0.004	98	280237	4.50	
122 tert-Butylbenzene	119	14.298	14.295	0.003	95	951819	4.43	
123 1,2,4-Trimethylbenzene	105	14.351	14.347	0.004	96	839548	4.22	
124 sec-Butylbenzene	134	14.525	14.521	0.004	94	254317	4.40	
126 1,3-Dichlorobenzene	146	14.664	14.660	0.004	89	477080	4.47	
125 4-Isopropyltoluene	119	14.681	14.678	0.003	98	1059361	4.46	
128 1,4-Dichlorobenzene	146	14.751	14.747	0.004	91	596518	4.17	
129 n-Butylbenzene	91	15.099	15.096	0.003	98	1092439	4.36	
130 1,2-Dichlorobenzene	146	15.151	15.148	0.003	96	440311	4.31	
131 1,2-Dibromo-3-Chloropropane	157	15.917	15.914	0.003	71	40780	3.90	
132 1,2,4-Trichlorobenzene	180	16.683	16.680	0.003	93	356959	4.36	
133 Hexachlorobutadiene	225	16.823	16.819	0.004	91	317923	4.71	
134 Naphthalene	128	16.927	16.924	0.003	95	354308	4.17	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
135 1,2,3-Trichlorobenzene	180	17.171	17.167	0.004	93	282754	4.12	
S 139 1,3-Dichloropropene, Total	1				0		9.09	
S 140 1,2-Dichloroethene, Total	1				0		8.96	
S 141 Xylenes, Total	106				0		13.2	
S 136 Trihalomethanes, Total	1				0		17.4	

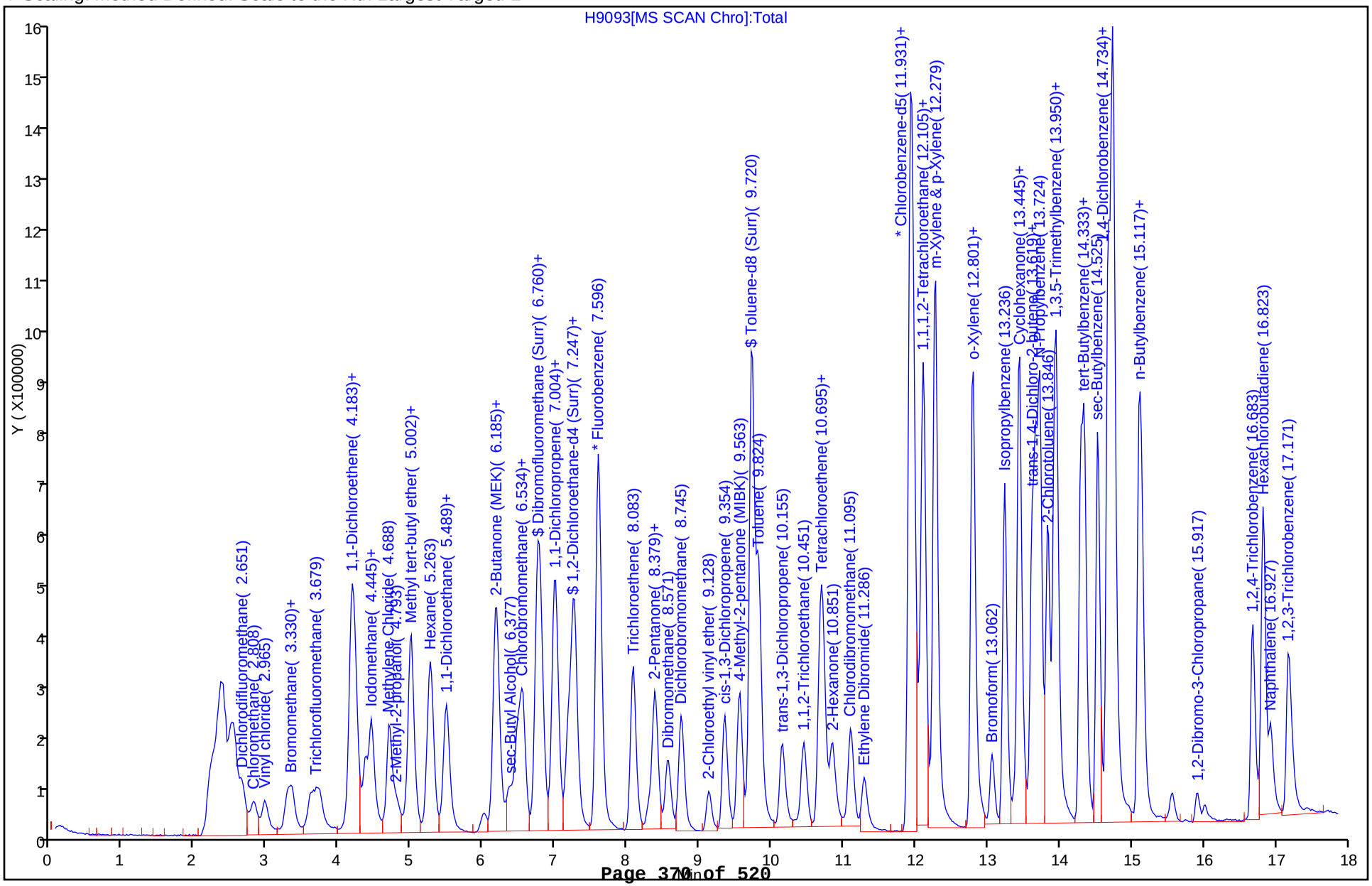
Report Date: 12-Dec-2012 05:43:33 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9093.D

Injection Date:	11-Dec-2012 06:37:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	4
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-151489/5

Matrix: Water | Lab File ID: H9094.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 06:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	20.5		10	1.9
71-43-2	Benzene	4.54		1.0	0.16
108-86-1	Bromobenzene	4.32		1.0	0.17
75-27-4	Bromodichloromethane	4.60		1.0	0.17
75-25-2	Bromoform	4.34		1.0	0.19
74-83-9	Bromomethane	4.49		2.0	0.21
78-93-3	2-Butanone (MEK)	19.3		6.0	2.0
56-23-5	Carbon tetrachloride	4.82		1.0	0.19
108-90-7	Chlorobenzene	4.55		1.0	0.17
74-97-5	Bromochloromethane	4.73		1.0	0.10
124-48-1	Dibromochloromethane	4.47		1.0	0.17
75-00-3	Chloroethane	4.80		2.0	0.41
67-66-3	Chloroform	4.68		1.0	0.16
74-87-3	Chloromethane	4.18		2.0	0.30
95-49-8	2-Chlorotoluene	4.34		1.0	0.17
106-43-4	4-Chlorotoluene	4.62		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.48		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.67		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	4.26	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.52		1.0	0.18
74-95-3	Dibromomethane	4.50		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.43		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.60		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.18		1.0	0.16
75-71-8	Dichlorodifluoromethane	3.38		2.0	0.31
75-34-3	1,1-Dichloroethane	4.78		1.0	0.22
107-06-2	1,2-Dichloroethane	4.71		1.0	0.13
75-35-4	1,1-Dichloroethene	4.70		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.03		1.0	0.24
78-87-5	1,2-Dichloropropane	4.80		1.0	0.18
142-28-9	1,3-Dichloropropane	4.63		1.0	0.22
594-20-7	2,2-Dichloropropane	4.74		1.0	0.18
563-58-6	1,1-Dichloropropene	4.39		1.0	0.19
100-41-4	Ethylbenzene	4.47		1.0	0.16
87-68-3	Hexachlorobutadiene	4.67		1.0	0.36
591-78-6	2-Hexanone	20.7		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-151489/5

Matrix: Water | Lab File ID: H9094.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 06:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	4.39		1.0	0.19
99-87-6	4-Isopropyltoluene	4.43		1.0	0.20
75-09-2	Methylene Chloride	4.54		2.0	0.32
108-10-1	4-Methyl-2-pentanone	23.4		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.69	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	8.98		2.0	0.34
91-20-3	Naphthalene	4.51		1.0	0.22
104-51-8	n-Butylbenzene	4.35		1.0	0.32
103-65-1	n-Propylbenzene	4.33		1.0	0.16
95-47-6	o-Xylene	4.44		1.0	0.19
135-98-8	sec-Butylbenzene	4.40		1.0	0.17
100-42-5	Styrene	4.49		1.0	0.17
98-06-6	tert-Butylbenzene	4.41		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.38		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.38		1.0	0.21
127-18-4	Tetrachloroethene	4.56		1.0	0.20
108-88-3	Toluene	4.45		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.55		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.72		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.25		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.50		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.70		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.31		1.0	0.27
79-01-6	Trichloroethene	4.45		1.0	0.16
75-69-4	Trichlorofluoromethane	4.47		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.59		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	4.27		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.30		1.0	0.16
75-01-4	Vinyl chloride	4.33		1.0	0.10
1330-20-7	Xylenes, Total	13.4		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-151489/5

Matrix: Water Lab File ID: H9094.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 06:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		78-120
1868-53-7	Dibromofluoromethane (Surr)	99		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-127
2037-26-5	Toluene-d8 (Surr)	107		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File:	\\Denchrom\ChromData\VMS_H\20121211-7200.b\H9094.D		
Lims ID:	lcsd	Client ID:	
Inject. Date:	11-Dec-2012 06:59:30	Dil. Factor:	1.0000
Sample Type:	LCSD		
Sample ID:	lcsd		
Misc. Info.:			
Operator:	meierg	Instrument ID:	VMS_H
Purge Vol:	20.000 mL	ALS Bottle#:	4
Lims Batch ID:	151489	Lims Sample ID:	5
Detector:	MS SCAN		
Method:	\\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m		
Last Update:	12-Dec-2012 05:43:31	Calib Date:	03-Dec-2012 18:29:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D		
Limit Group:	MSV - 8260B Water and Solid		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm
Process Host:	XAWRK027		

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.597	7.598	-0.001	98	2069287	12.5	
* 2 Chlorobenzene-d5	119	11.932	11.933	-0.001	90	417614	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.735	14.736	-0.001	96	730543	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.744	6.745	-0.001	60	845794	8.89	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.179	7.181	-0.002	91	388042	9.34	
$ 7 Toluene-d8 (Surr)	98	9.721	9.722	-0.001	91	1952281	9.60	
$ 8 4-Bromofluorobenzene (Surr)	95	13.429	13.431	-0.002	86	969398	8.24	
25 Dichlorodifluoromethane	85	2.653	2.648	0.005	88	292877	3.38	
28 Chloromethane	50	2.810	2.804	0.006	87	219806	4.18	
29 Vinyl chloride	62	2.966	2.961	0.005	79	223122	4.33	
31 Bromomethane	94	3.280	3.274	0.006	88	200666	4.49	
32 Chloroethane	64	3.349	3.344	0.005	95	156165	4.80	
34 Trichlorofluoromethane	101	3.697	3.692	0.005	97	452962	4.47	
45 1,1-Dichloroethene	96	4.167	4.162	0.005	87	233922	4.70	
42 1,1,2-Trichloro-1,2,2-trifluoroe	151	4.185	4.204	-0.019	89	383249	5.40	
43 Acetone	43	4.220	4.215	0.005	91	109528	20.5	
46 Iodomethane	142	4.359	4.354	0.005	97	472172	5.19	
50 Carbon disulfide	76	4.446	4.447	-0.001	99	822655	4.57	
52 Methylene Chloride	84	4.690	4.685	0.005	94	266955	4.54	
51 2-Methyl-2-propanol	59	4.794	4.789	0.005	98	250287	109.9	
54 Methyl tert-butyl ether	73	4.986	4.987	-0.001	93	503636	4.69	
55 trans-1,2-Dichloroethene	96	5.003	4.998	0.005	96	294427	4.55	
56 Hexane	57	5.264	5.266	-0.002	96	533702	5.24	
59 1,1-Dichloroethane	63	5.473	5.468	0.005	84	548325	4.78	
57 Vinyl acetate	43	5.491	5.492	-0.001	90	446233	5.55	
65 cis-1,2-Dichloroethene	96	6.170	6.164	0.006	85	301506	4.48	
63 2-Butanone (MEK)	43	6.170	6.164	0.006	54	240657	19.3	
67 2,2-Dichloropropane	77	6.187	6.182	0.005	73	422559	4.74	
64 sec-Butyl Alcohol	45	6.361	6.362	-0.001	79	371256	150.5	
69 Chlorobromomethane	128	6.466	6.478	-0.012	89	134857	4.73	
70 Chloroform	83	6.535	6.547	-0.012	79	539854	4.68	
73 1,1,1-Trichloroethane	97	6.796	6.791	0.005	91	477247	4.70	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
75 1,1-Dichloropropene	75	6.988	6.983	0.005	88	445309	4.39	
76 Carbon tetrachloride	117	7.005	7.000	0.005	82	426814	4.82	
79 Benzene	78	7.249	7.244	0.005	97	878328	4.54	
78 1,2-Dichloroethane	62	7.266	7.279	-0.013	72	219636	4.71	
81 Trichloroethene	95	8.067	8.080	-0.012	94	357660	4.45	
82 2-Pentanone	43	8.294	8.295	-0.001	96	241040	9.10	
85 1,2-Dichloropropane	63	8.381	8.375	0.006	94	333049	4.80	
87 Dibromomethane	93	8.555	8.550	0.005	89	175904	4.50	
88 Dichlorobromomethane	83	8.746	8.741	0.005	95	462938	4.60	
89 2-Chloroethyl vinyl ether	63	9.129	9.131	-0.002	84	112351	5.00	
91 cis-1,3-Dichloropropene	75	9.356	9.350	0.006	83	430316	4.67	
92 4-Methyl-2-pentanone (MIBK)	43	9.547	9.559	-0.012	96	861389	23.4	
93 Toluene	91	9.826	9.820	0.006	96	1002113	4.45	
95 trans-1,3-Dichloropropene	75	10.156	10.134	0.022	93	309672	4.72	
96 1,1,2-Trichloroethane	97	10.452	10.447	0.005	84	193926	4.31	
99 Tetrachloroethene	164	10.679	10.674	0.005	92	338150	4.56	
98 1,3-Dichloropropane	76	10.731	10.726	0.005	94	339670	4.63	
97 2-Hexanone	43	10.853	10.848	0.005	96	529584	20.7	
100 Chlorodibromomethane	129	11.096	11.091	0.005	88	311328	4.47	
102 Ethylene Dibromide	107	11.288	11.283	0.005	97	249643	4.52	
103 1-Chlorohexane	91	11.915	11.910	0.005	86	480999	4.63	
104 Chlorobenzene	112	11.984	11.979	0.005	89	669463	4.55	
106 1,1,1,2-Tetrachloroethane	131	12.089	12.084	0.005	83	298787	4.38	
105 Ethylbenzene	106	12.124	12.119	0.005	99	343584	4.47	
107 m-Xylene & p-Xylene	106	12.280	12.275	0.005	0	914781	8.98	
109 o-Xylene	106	12.785	12.780	0.005	93	411781	4.44	
108 Styrene	104	12.803	12.797	0.006	92	654383	4.49	
110 Bromoform	173	13.064	13.059	0.005	96	196879	4.34	
111 Isopropylbenzene	105	13.238	13.233	0.005	96	1258165	4.39	
113 Cyclohexanone	55	13.395	13.372	0.023	90	107439	128.0	
118 Bromobenzene	156	13.621	13.616	0.005	95	311759	4.32	
114 1,1,2,2-Tetrachloroethane	83	13.603	13.616	-0.013	48	260308	4.38	
116 1,2,3-Trichloropropane	110	13.673	13.668	0.005	74	59091	4.59	
115 trans-1,4-Dichloro-2-butene	53	13.673	13.674	-0.001	77	289101	31.4	
117 N-Propylbenzene	120	13.725	13.720	0.005	86	299475	4.33	
120 2-Chlorotoluene	126	13.847	13.842	0.005	93	245370	4.34	
119 1,3,5-Trimethylbenzene	105	13.934	13.929	0.005	93	921991	4.30	
121 4-Chlorotoluene	126	13.969	13.964	0.005	97	297162	4.62	
122 tert-Butylbenzene	119	14.300	14.295	0.005	95	977528	4.41	
123 1,2,4-Trimethylbenzene	105	14.352	14.347	0.005	96	876783	4.27	
124 sec-Butylbenzene	134	14.526	14.521	0.005	94	262883	4.40	
126 1,3-Dichlorobenzene	146	14.665	14.660	0.005	96	506873	4.60	
125 4-Isopropyltoluene	119	14.683	14.678	0.005	94	1084771	4.43	
128 1,4-Dichlorobenzene	146	14.753	14.747	0.005	91	617213	4.18	
129 n-Butylbenzene	91	15.101	15.096	0.005	97	1125417	4.35	
130 1,2-Dichlorobenzene	146	15.153	15.148	0.005	96	467525	4.43	
131 1,2-Dibromo-3-Chloropropane	157	15.919	15.914	0.005	79	45989	4.26	
132 1,2,4-Trichlorobenzene	180	16.685	16.680	0.005	93	380238	4.50	
133 Hexachlorobutadiene	225	16.824	16.819	0.005	94	325545	4.67	
134 Naphthalene	128	16.929	16.924	0.005	95	394955	4.51	
135 1,2,3-Trichlorobenzene	180	17.172	17.167	0.005	93	300762	4.25	
S 139 1,3-Dichloropropene, Total	1				0		9.38	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
S 140 1,2-Dichloroethene, Total	1				0		9.03	
S 141 Xylenes, Total	106				0		13.4	
S 136 Trihalomethanes, Total	1				0		18.1	

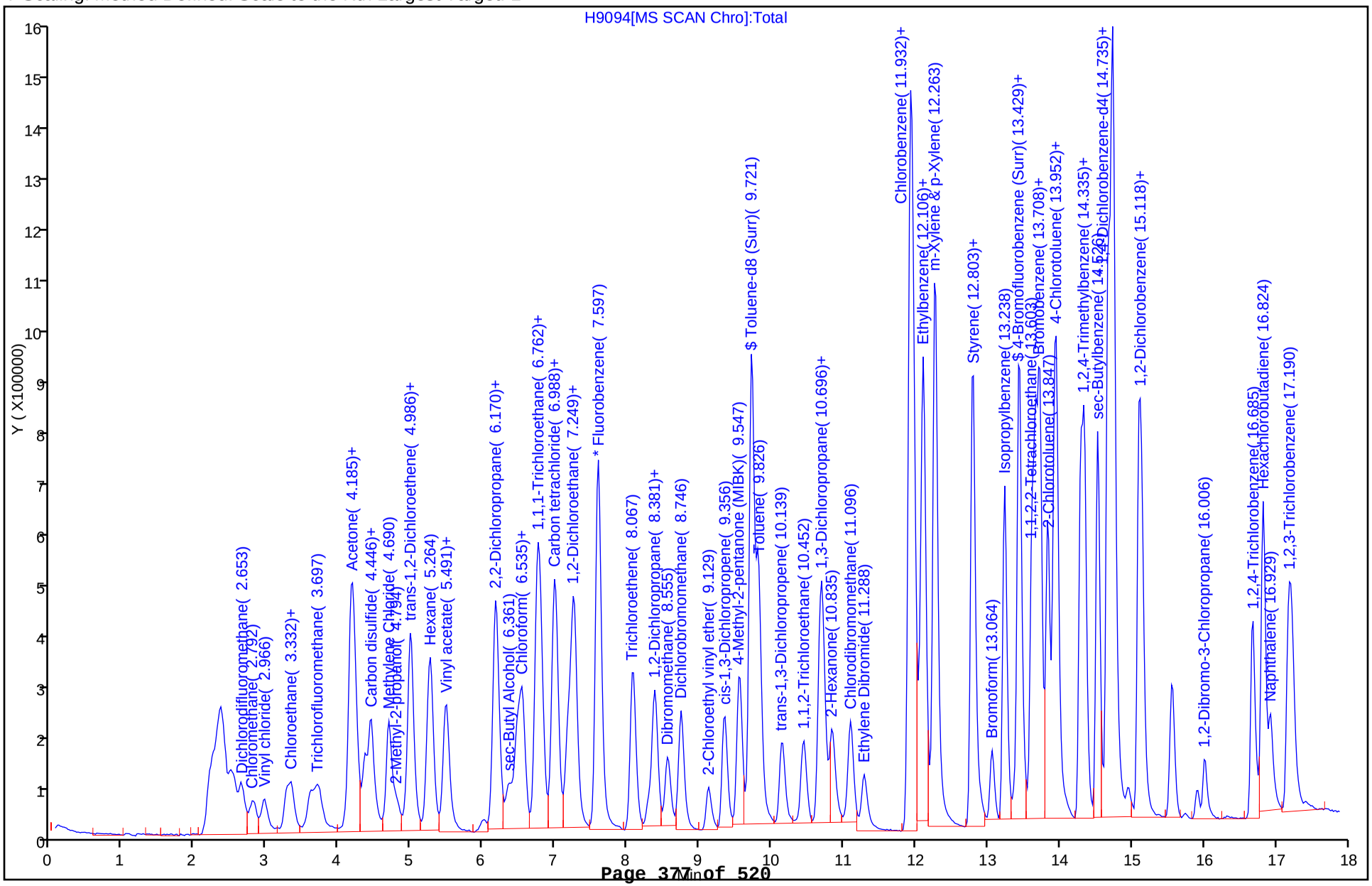
Report Date: 12-Dec-2012 05:43:34 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9094.D

Injection Date:	11-Dec-2012 06:59:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	5
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-20 MS | Lab Sample ID: 280-36712-4 MS

Matrix: Water | Lab File ID: H9098.D

Analysis Method: 8260B | Date Collected: 12/04/2012 15:30

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 08:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	22.3		10	1.9
71-43-2	Benzene	4.73		1.0	0.16
108-86-1	Bromobenzene	4.48		1.0	0.17
75-27-4	Bromodichloromethane	4.77		1.0	0.17
75-25-2	Bromoform	4.36		1.0	0.19
74-83-9	Bromomethane	4.52		2.0	0.21
78-93-3	2-Butanone (MEK)	20.4		6.0	2.0
56-23-5	Carbon tetrachloride	4.80		1.0	0.19
108-90-7	Chlorobenzene	4.55		1.0	0.17
74-97-5	Bromochloromethane	4.88		1.0	0.10
124-48-1	Dibromochloromethane	4.59		1.0	0.17
75-00-3	Chloroethane	4.92		2.0	0.41
67-66-3	Chloroform	4.76		1.0	0.16
74-87-3	Chloromethane	4.19		2.0	0.30
95-49-8	2-Chlorotoluene	4.63		1.0	0.17
106-43-4	4-Chlorotoluene	4.54		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.53		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.72		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	4.44	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.52		1.0	0.18
74-95-3	Dibromomethane	4.61		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.44		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.62		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.41		1.0	0.16
75-71-8	Dichlorodifluoromethane	3.23		2.0	0.31
75-34-3	1,1-Dichloroethane	4.93		1.0	0.22
107-06-2	1,2-Dichloroethane	4.83		1.0	0.13
75-35-4	1,1-Dichloroethene	4.84		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.22		1.0	0.24
78-87-5	1,2-Dichloropropane	5.03		1.0	0.18
142-28-9	1,3-Dichloropropane	4.62		1.0	0.22
594-20-7	2,2-Dichloropropane	4.77		1.0	0.18
563-58-6	1,1-Dichloropropene	4.50		1.0	0.19
100-41-4	Ethylbenzene	4.42		1.0	0.16
87-68-3	Hexachlorobutadiene	4.86		1.0	0.36
591-78-6	2-Hexanone	21.6		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-20 MS | Lab Sample ID: 280-36712-4 MS

Matrix: Water | Lab File ID: H9098.D

Analysis Method: 8260B | Date Collected: 12/04/2012 15:30

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 08:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	4.50		1.0	0.19
99-87-6	4-Isopropyltoluene	4.61		1.0	0.20
75-09-2	Methylene Chloride	3.93		2.0	0.32
108-10-1	4-Methyl-2-pentanone	23.1		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.85	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	9.14		2.0	0.34
91-20-3	Naphthalene	4.60		1.0	0.22
104-51-8	n-Butylbenzene	4.50		1.0	0.32
103-65-1	n-Propylbenzene	4.44		1.0	0.16
95-47-6	o-Xylene	4.42		1.0	0.19
135-98-8	sec-Butylbenzene	4.53		1.0	0.17
100-42-5	Styrene	4.50		1.0	0.17
98-06-6	tert-Butylbenzene	4.57		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.41		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.56		1.0	0.21
127-18-4	Tetrachloroethene	4.54		1.0	0.20
108-88-3	Toluene	4.54		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.69		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	4.93		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.40		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.64		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.79		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.48		1.0	0.27
79-01-6	Trichloroethene	4.49		1.0	0.16
75-69-4	Trichlorofluoromethane	4.57		2.0	0.29
96-18-4	1,2,3-Trichloropropane	4.90		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	4.39		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.43		1.0	0.16
75-01-4	Vinyl chloride	4.35		1.0	0.10
1330-20-7	Xylenes, Total	13.6		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-20 MS Lab Sample ID: 280-36712-4 MS

Matrix: Water Lab File ID: H9098.D

Analysis Method: 8260B Date Collected: 12/04/2012 15:30

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 08:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		78-120
1868-53-7	Dibromofluoromethane (Surr)	101		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
2037-26-5	Toluene-d8 (Surr)	106		80-125

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9098.D
Lims ID: 280-36712-B-4 MS
Client ID:
Inject. Date: 11-Dec-2012 08:29:30
Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 280-36712-B-4 ms
Misc. Info.:
Operator: meierg
Instrument ID: VMS_H
Purge Vol: 20.000 mL
ALS Bottle#: 8
Lims Batch ID: 151489
Lims Sample ID: 9
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31
Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE
ID Type: Deconvolution ID
Column Type: DB-624 (75.53)
Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg
Date: 11-Dec-2012 09:28:43

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.595	7.598	-0.003	98	2004754	12.5	
* 2 Chlorobenzene-d5	119	11.947	11.933	0.014	88	412068	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.732	14.736	-0.004	96	701277	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.759	6.745	0.014	60	835316	9.06	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.177	7.181	-0.004	91	384342	9.55	
$ 7 Toluene-d8 (Surr)	98	9.736	9.722	0.014	91	1905646	9.50	
$ 8 4-Bromofluorobenzene (Surr)	95	13.444	13.431	0.013	86	945123	8.37	
25 Dichlorodifluoromethane	85	2.650	2.648	0.002	99	270633	3.23	
28 Chloromethane	50	2.842	2.804	0.038	87	213629	4.19	
29 Vinyl chloride	62	2.998	2.961	0.037	97	216931	4.35	
31 Bromomethane	94	3.294	3.274	0.020	89	195622	4.52	
32 Chloroethane	64	3.347	3.344	0.003	97	155113	4.92	
34 Trichlorofluoromethane	101	3.712	3.692	0.020	86	448477	4.57	
45 1,1-Dichloroethene	96	4.165	4.162	0.003	88	233082	4.84	
43 Acetone	43	4.217	4.215	0.002	58	115124	22.3	
52 Methylene Chloride	84	4.705	4.685	0.020	96	231144	3.93	
54 Methyl tert-butyl ether	73	4.983	4.987	-0.004	92	504790	4.85	
55 trans-1,2-Dichloroethene	96	5.001	4.998	0.002	96	294325	4.69	
59 1,1-Dichloroethane	63	5.488	5.468	0.020	84	548294	4.93	
65 cis-1,2-Dichloroethene	96	6.167	6.164	0.003	70	295204	4.53	
63 2-Butanone (MEK)	43	6.167	6.164	0.003	55	245824	20.4	
67 2,2-Dichloropropane	77	6.184	6.182	0.002	70	411690	4.77	
69 Chlorobromomethane	128	6.480	6.478	0.002	74	134698	4.88	
70 Chloroform	83	6.550	6.547	0.003	80	531541	4.76	
73 1,1,1-Trichloroethane	97	6.811	6.791	0.020	91	471624	4.79	
75 1,1-Dichloropropene	75	6.985	6.983	0.002	88	442148	4.50	
76 Carbon tetrachloride	117	7.020	7.000	0.020	83	411489	4.80	
79 Benzene	78	7.264	7.244	0.020	97	887414	4.73	
78 1,2-Dichloroethane	62	7.281	7.279	0.002	72	218093	4.83	
81 Trichloroethene	95	8.082	8.080	0.003	97	349760	4.49	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63	8.378	8.375	0.003	95	338359	5.03	
87 Dibromomethane	93	8.569	8.550	0.019	93	174379	4.61	
88 Dichlorobromomethane	83	8.744	8.741	0.003	93	465109	4.77	
91 cis-1,3-Dichloropropene	75	9.353	9.350	0.003	86	428874	4.72	
92 4-Methyl-2-pentanone (MIBK)	43	9.562	9.559	0.003	96	823180	23.1	
93 Toluene	91	9.823	9.820	0.003	96	988714	4.54	
95 trans-1,3-Dichloropropene	75	10.154	10.134	0.020	93	313475	4.93	
96 1,1,2-Trichloroethane	97	10.450	10.447	0.003	83	195095	4.48	
99 Tetrachloroethene	164	10.693	10.674	0.019	92	332677	4.54	
98 1,3-Dichloropropane	76	10.728	10.726	0.002	95	334600	4.62	
97 2-Hexanone	43	10.850	10.848	0.002	96	545870	21.6	
100 Chlorodibromomethane	129	11.111	11.091	0.020	89	315400	4.59	
102 Ethylene Dibromide	107	11.285	11.283	0.002	97	246632	4.52	
104 Chlorobenzene	112	11.982	11.979	0.003	89	661179	4.55	
106 1,1,1,2-Tetrachloroethane	131	12.104	12.084	0.020	77	296991	4.41	
105 Ethylbenzene	106	12.121	12.119	0.002	99	335430	4.42	
107 m-Xylene & p-Xylene	106	12.278	12.275	0.003	0	918896	9.14	
109 o-Xylene	106	12.783	12.780	0.003	96	403751	4.42	
108 Styrene	104	12.800	12.797	0.003	93	645936	4.50	
110 Bromoform	173	13.061	13.059	0.002	96	195164	4.36	
111 Isopropylbenzene	105	13.235	13.233	0.002	96	1238764	4.50	
118 Bromobenzene	156	13.636	13.616	0.020	93	310762	4.48	
114 1,1,2,2-Tetrachloroethane	83	13.618	13.616	0.002	57	260157	4.56	
116 1,2,3-Trichloropropane	110	13.670	13.668	0.002	74	60525	4.90	
117 N-Propylbenzene	120	13.740	13.720	0.020	89	294433	4.44	
120 2-Chlorotoluene	126	13.845	13.842	0.003	96	251386	4.63	
119 1,3,5-Trimethylbenzene	105	13.932	13.929	0.003	94	910580	4.43	
121 4-Chlorotoluene	126	13.966	13.964	0.002	90	279996	4.54	
122 tert-Butylbenzene	119	14.297	14.295	0.002	95	973384	4.57	
123 1,2,4-Trimethylbenzene	105	14.349	14.347	0.002	96	863640	4.39	
124 sec-Butylbenzene	134	14.541	14.521	0.020	94	259482	4.53	
126 1,3-Dichlorobenzene	146	14.663	14.660	0.003	84	488253	4.62	
125 4-Isopropyltoluene	119	14.680	14.678	0.002	96	1085497	4.61	
128 1,4-Dichlorobenzene	146	14.750	14.747	0.003	92	624857	4.41	
129 n-Butylbenzene	91	15.098	15.096	0.002	97	1116692	4.50	
130 1,2-Dichlorobenzene	146	15.150	15.148	0.002	96	449715	4.44	
131 1,2-Dibromo-3-Chloropropane	157	15.916	15.914	0.002	78	46029	4.44	
132 1,2,4-Trichlorobenzene	180	16.682	16.680	0.002	93	375990	4.64	
133 Hexachlorobutadiene	225	16.839	16.819	0.020	92	325108	4.86	
134 Naphthalene	128	16.926	16.924	0.002	95	387342	4.60	
135 1,2,3-Trichlorobenzene	180	17.187	17.167	0.020	93	299368	4.40	
S 140 1,2-Dichloroethene, Total	1				0		9.22	
S 141 Xylenes, Total	106				0		13.6	

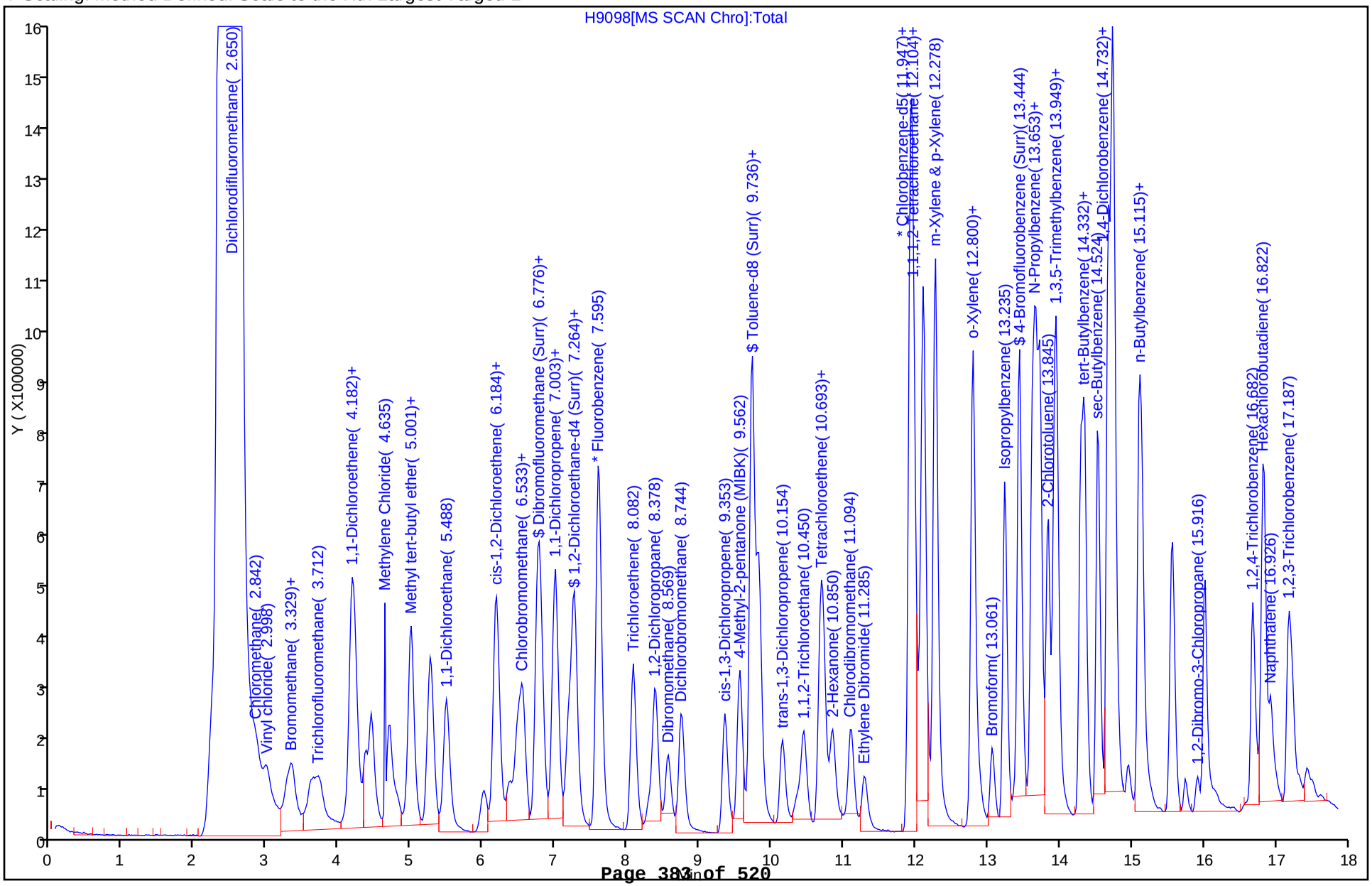
Report Date: 12-Dec-2012 05:43:38 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9098.D

Injection Date:	11-Dec-2012 08:29:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	9
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-20 MSD | Lab Sample ID: 280-36712-4 MSD

Matrix: Water | Lab File ID: H9099.D

Analysis Method: 8260B | Date Collected: 12/04/2012 15:30

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 08:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	21.7		10	1.9
71-43-2	Benzene	4.67		1.0	0.16
108-86-1	Bromobenzene	4.44		1.0	0.17
75-27-4	Bromodichloromethane	4.73		1.0	0.17
75-25-2	Bromoform	4.39		1.0	0.19
74-83-9	Bromomethane	4.50		2.0	0.21
78-93-3	2-Butanone (MEK)	19.9		6.0	2.0
56-23-5	Carbon tetrachloride	4.71		1.0	0.19
108-90-7	Chlorobenzene	4.55		1.0	0.17
74-97-5	Bromochloromethane	4.84		1.0	0.10
124-48-1	Dibromochloromethane	4.67		1.0	0.17
75-00-3	Chloroethane	4.96		2.0	0.41
67-66-3	Chloroform	4.69		1.0	0.16
74-87-3	Chloromethane	4.22		2.0	0.30
95-49-8	2-Chlorotoluene	4.60		1.0	0.17
106-43-4	4-Chlorotoluene	4.69		1.0	0.21
156-59-2	cis-1,2-Dichloroethene	4.54		1.0	0.15
10061-01-5	cis-1,3-Dichloropropene	4.67		1.0	0.16
96-12-8	1,2-Dibromo-3-Chloropropane	4.47	J	5.0	0.47
106-93-4	1,2-Dibromoethane (EDB)	4.50		1.0	0.18
74-95-3	Dibromomethane	4.65		1.0	0.17
95-50-1	1,2-Dichlorobenzene	4.52		1.0	0.15
541-73-1	1,3-Dichlorobenzene	4.58		1.0	0.13
106-46-7	1,4-Dichlorobenzene	4.46		1.0	0.16
75-71-8	Dichlorodifluoromethane	3.40		2.0	0.31
75-34-3	1,1-Dichloroethane	4.91		1.0	0.22
107-06-2	1,2-Dichloroethane	4.84		1.0	0.13
75-35-4	1,1-Dichloroethene	4.81		1.0	0.23
540-59-0	1,2-Dichloroethene, Total	9.12		1.0	0.24
78-87-5	1,2-Dichloropropane	4.97		1.0	0.18
142-28-9	1,3-Dichloropropane	4.67		1.0	0.22
594-20-7	2,2-Dichloropropane	4.65		1.0	0.18
563-58-6	1,1-Dichloropropene	4.38		1.0	0.19
100-41-4	Ethylbenzene	4.38		1.0	0.16
87-68-3	Hexachlorobutadiene	4.79		1.0	0.36
591-78-6	2-Hexanone	19.1		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-20 MSD | Lab Sample ID: 280-36712-4 MSD

Matrix: Water | Lab File ID: H9099.D

Analysis Method: 8260B | Date Collected: 12/04/2012 15:30

Sample wt/vol: 20(mL) | Date Analyzed: 12/11/2012 08:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 151489 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	4.43		1.0	0.19
99-87-6	4-Isopropyltoluene	4.53		1.0	0.20
75-09-2	Methylene Chloride	4.32		2.0	0.32
108-10-1	4-Methyl-2-pentanone	23.2		5.0	0.98
1634-04-4	Methyl tert-butyl ether	4.84	J	5.0	0.25
179601-23-1	m-Xylene & p-Xylene	9.00		2.0	0.34
91-20-3	Naphthalene	4.49		1.0	0.22
104-51-8	n-Butylbenzene	4.41		1.0	0.32
103-65-1	n-Propylbenzene	4.42		1.0	0.16
95-47-6	o-Xylene	4.45		1.0	0.19
135-98-8	sec-Butylbenzene	4.55		1.0	0.17
100-42-5	Styrene	3.46		1.0	0.17
98-06-6	tert-Butylbenzene	4.50		1.0	0.16
630-20-6	1,1,1,2-Tetrachloroethane	4.46		1.0	0.21
79-34-5	1,1,2,2-Tetrachloroethane	4.64		1.0	0.21
127-18-4	Tetrachloroethene	4.51		1.0	0.20
108-88-3	Toluene	4.63		1.0	0.17
156-60-5	trans-1,2-Dichloroethene	4.59		1.0	0.15
10061-02-6	trans-1,3-Dichloropropene	5.00		3.0	0.19
87-61-6	1,2,3-Trichlorobenzene	4.33		1.0	0.21
120-82-1	1,2,4-Trichlorobenzene	4.60		1.0	0.21
71-55-6	1,1,1-Trichloroethane	4.77		1.0	0.16
79-00-5	1,1,2-Trichloroethane	4.84		1.0	0.27
79-01-6	Trichloroethene	4.43		1.0	0.16
75-69-4	Trichlorofluoromethane	4.63		2.0	0.29
96-18-4	1,2,3-Trichloropropane	5.01		2.5	0.33
95-63-6	1,2,4-Trimethylbenzene	4.27		1.0	0.15
108-67-8	1,3,5-Trimethylbenzene	4.30		1.0	0.16
75-01-4	Vinyl chloride	4.42		1.0	0.10
1330-20-7	Xylenes, Total	13.4		2.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Client Sample ID: MW-20 MSD Lab Sample ID: 280-36712-4 MSD

Matrix: Water Lab File ID: H9099.D

Analysis Method: 8260B Date Collected: 12/04/2012 15:30

Sample wt/vol: 20(mL) Date Analyzed: 12/11/2012 08:51

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 (75.53) ID: 0.53(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151489 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		78-120
1868-53-7	Dibromofluoromethane (Surr)	101		77-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-127
2037-26-5	Toluene-d8 (Surr)	109		80-125

Report Date: 12-Dec-2012 05:43:39 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9099.D
Lims ID: 280-36712-B-4 MSD Client ID:
Inject. Date: 11-Dec-2012 08:51:30 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 280-36712-B-4 msd
Misc. Info.:
Operator: meierg Instrument ID: VMS_H
Purge Vol: 20.000 mL ALS Bottle#: 9
Lims Batch ID: 151489 Lims Sample ID: 10
Detector: MS SCAN

Method: \\Denchrom\ChromData\VMS_H\20121211-7200.b\AQ_VMSH_8260.m
Last Update: 12-Dec-2012 05:43:31 Calib Date: 03-Dec-2012 18:29:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Denchrom\ChromData\VMS_H\20121203-6990.b\H8892.D
Limit Group: MSV - 8260B Water and Solid
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624 (75.53) Column Dia: 0.53 mm
Process Host: XAWRK027

First Level Reviewer: meierg Date: 11-Dec-2012 09:34:01

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	7.596	7.598	-0.002	98	2028360	12.5	
* 2 Chlorobenzene-d5	119	11.949	11.933	0.016	88	414300	12.5	
* 3 1,4-Dichlorobenzene-d4	152	14.734	14.736	-0.002	96	711580	12.5	
$ 5 Dibromofluoromethane (Surr)	111	6.760	6.745	0.015	65	845326	9.07	
$ 6 1,2-Dichloroethane-d4 (Surr)	65	7.178	7.181	-0.003	91	394369	9.69	
$ 7 Toluene-d8 (Surr)	98	9.738	9.722	0.016	93	1981383	9.82	
$ 8 4-Bromofluorobenzene (Surr)	95	13.446	13.431	0.015	86	987271	8.62	
25 Dichlorodifluoromethane	85	2.652	2.648	0.004	88	288410	3.40	
28 Chloromethane	50	2.843	2.804	0.039	88	217626	4.22	
29 Vinyl chloride	62	2.983	2.961	0.022	97	222824	4.42	
31 Bromomethane	94	3.296	3.274	0.022	88	196937	4.50	
32 Chloroethane	64	3.348	3.344	0.004	94	158377	4.96	
34 Trichlorofluoromethane	101	3.714	3.692	0.022	87	459334	4.63	
45 1,1-Dichloroethene	96	4.166	4.162	0.004	96	234680	4.81	
43 Acetone	43	4.219	4.215	0.004	32	113787	21.7	
52 Methylene Chloride	84	4.689	4.685	0.004	91	251657	4.32	
54 Methyl tert-butyl ether	73	4.985	4.987	-0.002	98	509800	4.84	
55 trans-1,2-Dichloroethene	96	5.002	4.998	0.004	95	291143	4.59	
59 1,1-Dichloroethane	63	5.490	5.468	0.022	84	552942	4.91	
65 cis-1,2-Dichloroethene	96	6.169	6.164	0.005	84	299361	4.54	
63 2-Butanone (MEK)	43	6.186	6.164	0.022	55	242611	19.9	
67 2,2-Dichloropropane	77	6.186	6.182	0.004	70	406012	4.65	
69 Chlorobromomethane	128	6.482	6.478	0.004	73	135228	4.84	
70 Chloroform	83	6.552	6.547	0.005	95	530056	4.69	
73 1,1,1-Trichloroethane	97	6.813	6.791	0.022	92	475439	4.77	
75 1,1-Dichloropropene	75	6.987	6.983	0.004	88	435889	4.38	
76 Carbon tetrachloride	117	7.004	7.000	0.004	81	408701	4.71	
79 Benzene	78	7.265	7.244	0.021	96	886474	4.67	
78 1,2-Dichloroethane	62	7.283	7.279	0.004	75	221435	4.84	
81 Trichloroethene	95	8.084	8.080	0.005	94	349252	4.43	

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
85 1,2-Dichloropropane	63	8.397	8.375	0.022	95	338263	4.97	
87 Dibromomethane	93	8.571	8.550	0.021	89	177975	4.65	
88 Dichlorobromomethane	83	8.745	8.741	0.004	92	467515	4.73	
91 cis-1,3-Dichloropropene	75	9.355	9.350	0.004	86	426590	4.67	
92 4-Methyl-2-pentanone (MIBK)	43	9.563	9.559	0.004	96	836837	23.2	
93 Toluene	91	9.825	9.820	0.005	96	1020123	4.63	
95 trans-1,3-Dichloropropene	75	10.155	10.134	0.021	93	322008	5.00	
96 1,1,2-Trichloroethane	97	10.451	10.447	0.004	85	213385	4.84	
99 Tetrachloroethene	164	10.695	10.674	0.021	92	332428	4.51	
98 1,3-Dichloropropane	76	10.730	10.726	0.004	94	340157	4.67	
97 2-Hexanone	43	10.852	10.848	0.004	96	482811	19.1	
100 Chlorodibromomethane	129	11.113	11.091	0.022	91	322641	4.67	
102 Ethylene Dibromide	107	11.287	11.283	0.004	97	246552	4.50	
104 Chlorobenzene	112	11.983	11.979	0.004	88	665100	4.55	
106 1,1,1,2-Tetrachloroethane	131	12.105	12.084	0.021	70	301857	4.46	
105 Ethylbenzene	106	12.123	12.119	0.004	98	333998	4.38	
107 m-Xylene & p-Xylene	106	12.279	12.275	0.004	0	909970	9.00	
109 o-Xylene	106	12.784	12.780	0.004	94	408765	4.45	
108 Styrene	104	12.802	12.797	0.005	92	499519	3.46	
110 Bromoform	173	13.063	13.059	0.004	96	197257	4.39	
111 Isopropylbenzene	105	13.237	13.233	0.004	95	1236974	4.43	
118 Bromobenzene	156	13.620	13.616	0.004	94	312023	4.44	
114 1,1,2,2-Tetrachloroethane	83	13.620	13.616	0.004	52	268230	4.64	
116 1,2,3-Trichloropropane	110	13.672	13.668	0.004	69	62750	5.01	
117 N-Propylbenzene	120	13.724	13.720	0.004	88	297746	4.42	
120 2-Chlorotoluene	126	13.846	13.842	0.004	96	253228	4.60	
119 1,3,5-Trimethylbenzene	105	13.933	13.929	0.004	94	897791	4.30	
121 4-Chlorotoluene	126	13.968	13.964	0.004	98	293388	4.69	
122 tert-Butylbenzene	119	14.299	14.295	0.004	95	971601	4.50	
123 1,2,4-Trimethylbenzene	105	14.351	14.347	0.004	96	853689	4.27	
124 sec-Butylbenzene	134	14.543	14.521	0.022	94	264366	4.55	
126 1,3-Dichlorobenzene	146	14.664	14.660	0.004	92	491494	4.58	
125 4-Isopropyltoluene	119	14.682	14.678	0.004	96	1080877	4.53	
128 1,4-Dichlorobenzene	146	14.751	14.747	0.004	92	640846	4.46	
129 n-Butylbenzene	91	15.100	15.096	0.004	97	1112593	4.41	
130 1,2-Dichlorobenzene	146	15.152	15.148	0.004	95	464382	4.52	
131 1,2-Dibromo-3-Chloropropane	157	15.918	15.914	0.004	78	47052	4.47	
132 1,2,4-Trichlorobenzene	180	16.684	16.680	0.004	94	378708	4.60	
133 Hexachlorobutadiene	225	16.841	16.819	0.022	91	324819	4.79	
134 Naphthalene	128	16.928	16.924	0.004	96	383504	4.49	
135 1,2,3-Trichlorobenzene	180	17.189	17.167	0.022	91	298913	4.33	
S 140 1,2-Dichloroethene, Total	1				0		9.12	
S 141 Xylenes, Total	106				0		13.4	

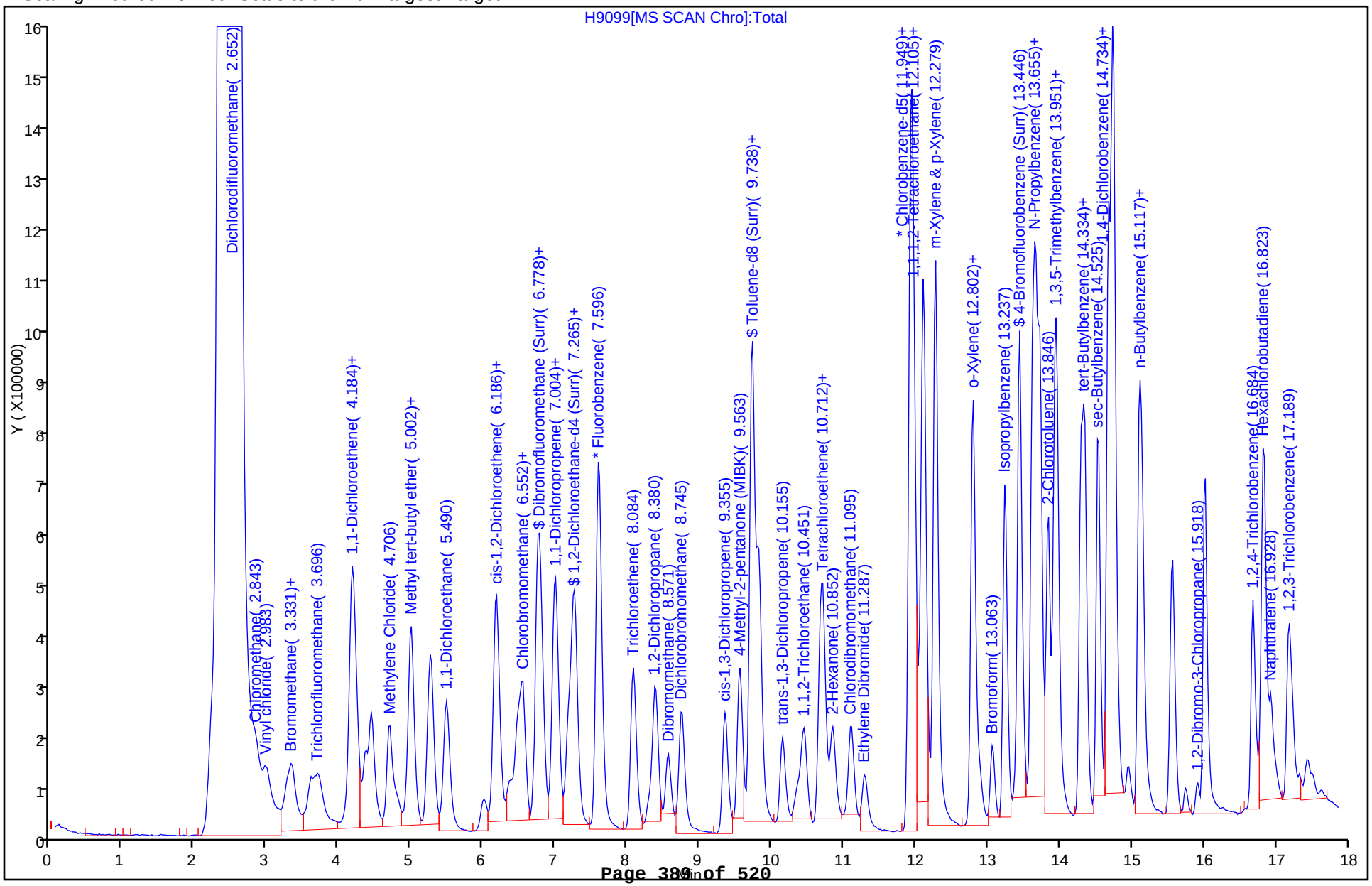
Report Date: 12-Dec-2012 05:43:39 Chrom Revision: 2.0 05-Dec-2012 19:13:16

TestAmerica Denver

Data File: \\Denchrom\ChromData\VMS_H\20121211-7200.b\H9099.D

Injection Date:	11-Dec-2012 08:51:30	Limit Group:	MSV - 8260B Water and Solid
Client ID:		Instrument ID:	VMS_H
Lims Batch ID:	151489	Lims Sample ID:	10
Operator ID:	meierg	Purge Vol:	20.000 mL
Column Type:	DB-624 (75.53)	Column Dia:	0.53 mm

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Instrument ID: VMS_H Start Date: 12/03/2012 13:57

Analysis Batch Number: 150224 End Date: 12/04/2012 01:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-150224/1		12/03/2012 13:57	1	H8879.D	DB-624 (75.53) 0.53(mm)
STD003 280-150224/2 IC		12/03/2012 14:05	1	H8880.D	DB-624 (75.53) 0.53(mm)
STD01 280-150224/3 IC		12/03/2012 14:27	1	H8881.D	DB-624 (75.53) 0.53(mm)
STD02 280-150224/4 IC		12/03/2012 14:49	1	H8882.D	DB-624 (75.53) 0.53(mm)
STD05 280-150224/5 IC		12/03/2012 15:11	1	H8883.D	DB-624 (75.53) 0.53(mm)
STD10 280-150224/6 IC		12/03/2012 15:33	1	H8884.D	DB-624 (75.53) 0.53(mm)
STD30 280-150224/7 IC		12/03/2012 15:55	1	H8885.D	DB-624 (75.53) 0.53(mm)
STD60 280-150224/8 IC		12/03/2012 16:17	1	H8886.D	DB-624 (75.53) 0.53(mm)
STD01 280-150224/9 IC		12/03/2012 16:39	1	H8887.D	DB-624 (75.53) 0.53(mm)
STD02 280-150224/10 IC		12/03/2012 17:01	1	H8888.D	DB-624 (75.53) 0.53(mm)
STD05 280-150224/11 IC		12/03/2012 17:23	1	H8889.D	DB-624 (75.53) 0.53(mm)
ICIS 280-150224/12		12/03/2012 17:45	1	H8890.D	DB-624 (75.53) 0.53(mm)
STD30 280-150224/13 IC		12/03/2012 18:07	1	H8891.D	DB-624 (75.53) 0.53(mm)
STD60 280-150224/14 IC		12/03/2012 18:29	1	H8892.D	DB-624 (75.53) 0.53(mm)
ICV 280-150224/15		12/03/2012 18:51	1		DB-624 (75.53) 0.53(mm)
ICV 280-150224/16		12/03/2012 19:12	1	H8894.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		12/03/2012 19:34	1		DB-624 (75.53) 0.53(mm)
280-36125-A-1 MDLV		12/03/2012 19:57	1		DB-624 (75.53) 0.53(mm)
280-36125-A-2 MDLV		12/03/2012 20:19	1		DB-624 (75.53) 0.53(mm)
280-36125-A-3 MDLV		12/03/2012 20:41	1		DB-624 (75.53) 0.53(mm)
280-36125-A-4 MDLV		12/03/2012 21:03	1		DB-624 (75.53) 0.53(mm)
280-36125-A-5 MDLV		12/03/2012 21:25	1		DB-624 (75.53) 0.53(mm)
280-36125-A-7 MDLV		12/03/2012 21:47	1		DB-624 (75.53) 0.53(mm)
280-36125-A-8 MDLV		12/03/2012 22:10	1		DB-624 (75.53) 0.53(mm)
280-36125-A-9 MDLV		12/03/2012 22:32	1		DB-624 (75.53) 0.53(mm)
280-36125-A-10 MDLV		12/03/2012 22:54	1		DB-624 (75.53) 0.53(mm)
280-36125-A-11 MDLV		12/03/2012 23:16	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/03/2012 23:38	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 00:01	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 00:23	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 00:45	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 01:07	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 01:30	1		DB-624 (75.53) 0.53(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Instrument ID: VMS_H Start Date: 12/04/2012 07:51

Analysis Batch Number: 150267 End Date: 12/04/2012 19:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-150267/1		12/04/2012 07:51	1	H8917.D	DB-624 (75.53) 0.53(mm)
CCV 280-150267/3		12/04/2012 07:59	1		DB-624 (75.53) 0.53(mm)
CCV 280-150267/4		12/04/2012 08:21	1		DB-624 (75.53) 0.53(mm)
ICV 280-150267/2		12/04/2012 08:44	1	H8920.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 09:06	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 09:28	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 09:51	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 10:13	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 10:35	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 10:57	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 11:19	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 11:41	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 12:03	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 12:26	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 12:48	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 13:10	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 13:32	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 13:54	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 14:17	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 14:39	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 15:01	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 15:23	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 15:46	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 16:08	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 16:30	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 16:52	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 17:14	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 17:37	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 17:59	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 18:21	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 18:43	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/04/2012 19:06	1		DB-624 (75.53) 0.53(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Instrument ID: VMS_H Start Date: 12/11/2012 05:45

Analysis Batch Number: 151489 End Date: 12/11/2012 16:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-151489/1		12/11/2012 05:45	1	H9090.D	DB-624 (75.53) 0.53(mm)
CCV 280-151489/2		12/11/2012 05:53	1	H9091.D	DB-624 (75.53) 0.53(mm)
CCV 280-151489/3		12/11/2012 06:15	1	H9092.D	DB-624 (75.53) 0.53(mm)
LCS 280-151489/4		12/11/2012 06:37	1	H9093.D	DB-624 (75.53) 0.53(mm)
LCSD 280-151489/5		12/11/2012 06:59	1	H9094.D	DB-624 (75.53) 0.53(mm)
MB 280-151489/6		12/11/2012 07:21	1	H9095.D	DB-624 (75.53) 0.53(mm)
280-36712-15	TRIP BLANK	12/11/2012 07:45	1	H9096.D	DB-624 (75.53) 0.53(mm)
280-36712-4	MW-20	12/11/2012 08:07	1	H9097.D	DB-624 (75.53) 0.53(mm)
280-36712-4 MS	MW-20 MS	12/11/2012 08:29	1	H9098.D	DB-624 (75.53) 0.53(mm)
280-36712-4 MSD	MW-20 MSD	12/11/2012 08:51	1	H9099.D	DB-624 (75.53) 0.53(mm)
280-36712-1	MW-18	12/11/2012 09:14	1	H9100.D	DB-624 (75.53) 0.53(mm)
280-36712-2	MW-22	12/11/2012 09:36	1	H9101.D	DB-624 (75.53) 0.53(mm)
280-36712-3	MW-21	12/11/2012 09:58	1	H9102.D	DB-624 (75.53) 0.53(mm)
280-36712-5	MW-10	12/11/2012 10:21	1	H9103.D	DB-624 (75.53) 0.53(mm)
280-36712-6	MW-19	12/11/2012 10:43	1	H9104.D	DB-624 (75.53) 0.53(mm)
280-36712-7	MW-9	12/11/2012 11:05	1	H9105.D	DB-624 (75.53) 0.53(mm)
280-36712-8	MW-16	12/11/2012 11:27	1	H9106.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		12/11/2012 11:50	1		DB-624 (75.53) 0.53(mm)
280-36712-12	INJ-E	12/11/2012 12:12	1	H9108.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		12/11/2012 12:35	1		DB-624 (75.53) 0.53(mm)
280-36712-10	INJ-W	12/11/2012 12:57	1	H9110.D	DB-624 (75.53) 0.53(mm)
280-36712-11	INJ-S	12/11/2012 13:19	1	H9111.D	DB-624 (75.53) 0.53(mm)
280-36712-13	INJ-N	12/11/2012 13:42	1	H9112.D	DB-624 (75.53) 0.53(mm)
280-36712-9	MW-17	12/11/2012 14:04	1	H9113.D	DB-624 (75.53) 0.53(mm)
280-36712-14	DUP-1	12/11/2012 14:26	1	H9114.D	DB-624 (75.53) 0.53(mm)
ZZZZZ		12/11/2012 14:48	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/11/2012 15:11	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/11/2012 15:33	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/11/2012 15:55	1		DB-624 (75.53) 0.53(mm)
ZZZZZ		12/11/2012 16:18	1		DB-624 (75.53) 0.53(mm)

TestAmerica Denver

GC/MS VOA Continuing Calibration/Review Checklist

Instrument ID and Date: H 12/12/12 Work List 7200

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Continuing Calibration					
1. BFB meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	✓			✓	
4. Does %D meet criteria for non-CCC compounds?	✓			✓	
5. Isomeric pairs checked for correct peak assignment?	✓			✓	
6. Label number of standard used recorded?	✓			✓	
7. Manual integrations documented and checked?	✓			✓	
8. Do the Internal Standards meet criteria for %D against ICAL?	✓			✓	

1st Level Reviewer: _____ Date: 12/12/12

2nd Level Reviewer: _____ Date: 12/12/12

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

Instrument: H

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g)

Tune Time: 0545-1618 (Circle)

Lims Batch : 151489

Sequence Name: C:\HPCHEM\1\SEQUENCE\121112.S
Comment:
Operator: meierg
Data Path: C:\HPCHEM\1\DATA\121112.B\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	H9090	BFBAFC	bfb
2	Sample	1	H9091	8260AFC	ccv
3	Sample	2	H9092	8260AFC	ccv
4	Sample	3	H9093	8260AFC	lcs
5	Sample	4	H9094	8260AFC	lcsd
6	Sample	5	H9095	8260AFC	mb
7	Sample	6	H9096	8260AFC	280-36712-B-15
8	Sample	7	H9097	8260AFC	280-36712-C-4
9	Sample	8	H9098	8260AFC	280-36712-B-4 ms
10	Sample	9	H9099	8260AFC	280-36712-B-4 msd
11	Sample	10	H9100	8260AFC	280-36712-A-1
12	Sample	11	H9101	8260AFC	280-36712-B-2
13	Sample	12	H9102	8260AFC	280-36712-C-3
14	Sample	13	H9103	8260AFC	280-36712-A-5
15	Sample	14	H9104	8260AFC	280-36712-B-6
16	Sample	15	H9105	8260AFC	280-36712-B-7
17	Sample	16	H9106	8260AFC	280-36712-A-8
18	Sample	17	H9107	8260AFC	280-36712-B-9 TSS RRES.
19	Sample	18	H9108	8260AFC	280-36712-B-12
20	Sample	19	H9109	8260AFC	280-36712-D-14 TSS RRES.
21	Sample	20	H9110	8260AFC	280-36712-B-10 .1ml
22	Sample	21	H9111	8260AFC	280-36712-B-11 .2ml
23	Sample	22	H9112	8260AFC	280-36712-D-13 2ml
24	Sample	23	H9113	8260AFC	280-36712-D-9 5ml
25	Sample	24	H9114	8260AFC	280-36712-C-14 5ml
26	Sample	25	H9115	8260AFC	280-36727-C-1
27	Sample	26	H9116	8260AFC	280-36727-C-2
28	Sample	27	H9117	8260AFC	280-36727-C-3
29	Sample	28	H9118	8260AFC	280-36727-C-4
30	Sample	29	H9119	8260AFC	280-36727-D-5

12/12/12

*Run rejected because of poor purge or QC issue. Do not report.

TestAmerica Laboratories
Worklist Report

Worklist Name: 121112 Worklist Number: 7200
Instrument Name: VMS_H Chrom Method: AQ_VMSH_8260
Purge Volume: 20.00 Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_H\20121211-7200.b
Upload Directory: \\Densvr08\rawdata\Organics\MS\VMS_H
Run Reagent: MV-Archon IS_00540 Amount Added: 1.000000, Units: uL
Run Reagent: MV-Archon SS_00676 Amount Added: 0.720000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0007200-001	# 1 bfb	MV-BFB_00009	BFB		voaWater	1.000000	uL	1.000000
280-0007200-002	# 2 ccv	MV-Archon IS_00540 MV-Main GasKe_00036 MV-Main_00025	CCV		voaWater	20.00	mL	1.000000
280-0007200-003	# 3 ccv	MV-Supp Std_00026 MV-Acetates_00004 MV-2 Cleve_00013	CCV		voaWater	20.00	mL	1.000000
280-0007200-004	# 4 lcs	MV-SS GasKe_00022 MV-524 A_00016 MV-624 A_00020	LCS		voaWater	20.00	mL	1.000000
280-0007200-005	# 5 lcsd	MV-SS GasKe_00022 MV-524 A_00016 MV-624 A_00020	LCSD		voaWater	20.00	mL	1.000000
280-0007200-006	# 6 mb		MB		voaWater	20.00	mL	1.000000
280-0007200-007	# 7 280-36712-B-15		Client		voaWater	20.00	mL	1.000000
280-0007200-008	# 8 280-36712-C-4		Client		voaWater	20.00	mL	1.000000
280-0007200-009	# 9 280-36712-B-4 MS	MV-SS GasKe_00022 MV-524 A_00016 MV-624 A_00020	MS		voaWater	20.00	mL	1.000000
280-0007200-010	#10 280-36712-B-4 MSD	MV-524 A_00016 MV-624 A_00020 MV-SS GasKe_00022	MSD		voaWater	20.00	mL	1.000000
280-0007200-011	#11 280-36712-A-1		Client		voaWater	20.00	mL	1.000000
280-0007200-012	#12 280-36712-B-2		Client		voaWater	20.00	mL	1.000000
280-0007200-013	#13 280-36712-C-3		Client		voaWater	20.00	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0007200-014	#14 280-36712-A-5		Client		voaWater	20.00	mL	1.000000
280-0007200-015	#15 280-36712-B-6		Client		voaWater	20.00	mL	1.000000
280-0007200-016	#16 280-36712-B-7		Client		voaWater	20.00	mL	1.000000
280-0007200-017	#17 280-36712-A-8		Client		voaWater	20.00	mL	1.000000
280-0007200-018	#18 280-36712-B-9		Client		voaWater	20.00	mL	1.000000
280-0007200-019	#19 280-36712-B-12		Client		voaWater	20.00	mL	1.000000
280-0007200-020	#20 280-36712-D-14		Client		voaWater	20.00	mL	1.000000
280-0007200-021	#21 280-36712-B-10		Client		voaWater	0.100000	mL	1.000000
280-0007200-022	#22 280-36712-B-11		Client		voaWater	0.200000	mL	1.000000
280-0007200-023	#23 280-36712-D-13		Client		voaWater	2.000000	mL	1.000000
280-0007200-024	#24 280-36712-D-9		Client		voaWater	5.000000	mL	1.000000
280-0007200-025	#25 280-36712-C-14		Client		voaWater	5.000000	mL	1.000000
280-0007200-026	#26 280-36727-C-1		Client		voaWater	20.00	mL	1.000000
280-0007200-027	#27 280-36727-C-2		Client		voaWater	20.00	mL	1.000000
280-0007200-028	#28 280-36727-C-3		Client		voaWater	20.00	mL	1.000000
280-0007200-029	#29 280-36727-C-4		Client		voaWater	20.00	mL	1.000000
280-0007200-030	#30 280-36727-D-5		Client		voaWater	20.00	mL	1.000000

Sample Request Form: 14201

den_msvoa_totalbacklog 12/11/2012 7:25:06 AM Assigned to:Meier, Greg P

Sample	Client Sample ID	Container	Method	Analytical Method	Hold Time	Due	PM	Storage	Hazard Level
280-36712-1 20	MW-18	2	8260B	8260B	12/18 23:59	12/17/12	KEY	MS-Strge	Unconfirmed
M LCSD									
280-36712-2 20	MW-22	2	8260B	8260B	12/18 23:59	12/17/12	KEY	MS-Strge	Unconfirmed
M LCSD									
280-36712-3 20	MW-21	2	8260B	8260B	12/18 23:59	12/17/12	KEY	MS-Strge	Unconfirmed
M LCSD									
280-36712-4 20	MW-20	2	8260B	8260B	12/18 23:59	12/17/12	KEY	MS-Strge	Unconfirmed
M LCSD									
280-36712-5 20	MW-10	2	8260B	8260B	12/18 23:59	12/17/12	KEY	MS-Strge	Unconfirmed
M LCSD									
280-36712-6 20	MW-19	2	8260B	8260B	12/19 23:59	12/17/12	KEY	MS-Strge	Unconfirmed
M LCSD									
280-36712-7 20	MW-9	2	8260B	8260B	12/19 23:59	12/17/12	KEY	MS-Strge	Unconfirmed
M LCSD									
280-36712-8 20	MW-16	2	8260B	8260B	12/19 23:59	12/17/12	KEY	MS-Strge	Unconfirmed
M LCSD									
280-36712-9 20/5	MW-17	2	8260B	8260B	12/19 23:59	12/17/12	KEY	50 & MS-Strge	Unconfirmed
M LCSD									
280-36712-10 1	INJ-W	2	8260B	8260B	12/19 23:59	12/17/12	KEY	50 & MS-Strge	Unconfirmed
M LCSD									

Sample Request Form: 14201

den_msvoa_totalbacklog 12/11/2012 7:25:06 AM Assigned to:Meier, Greg P

Sample	Client Sample ID	Container	Method	Analytical Method	Hold Time	Due	PM	Storage	Hazard Level
280-36712-11 .2	INJ-S	2	8260B	8260B	12/19 23:59	12/17/12	KEY	50 & MS-Strge	Unconfirmed
M LCSD									
280-36712-12 20	INJ-E	7	8260B	8260B	12/19 23:59	12/17/12	KEY	50 & MS-Strge	Unconfirmed
M LCSD									
280-36712-13 2	INJ-N	2	8260B	8260B	12/19 23:59	12/17/12	KEY	50 & MS-Strge	Unconfirmed
M LCSD									
280-36712-14 20/5	DUP-1	2	8260B	8260B	12/19 23:59	12/17/12	KEY	50 & MS-Strge	Unconfirmed
M LCSD									
280-36712-15 20	TRIP BLANK	2	8260B	8260B	12/18 23:59	12/17/12	KEY	MS-Strge	Unconfirmed
M LCSD									

Sample Request Form: 14212

den_msvoa_totalbacklog 12/11/2012 11:24:31 AM Assigned to:Meier, Greg P

Sample	Client Sample ID	Container	Method	Analytical Method	Hold Time	Due	PM	Storage	Hazard Level
280-36727-1 20	DW10	2	8260B	8260B	12/19 23:59	12/19/12	DMH	MS-Strge & Mtls-Strge & WC	Unconfirmed
280-36727-2 20	WS03	2	8260B	8260B	12/19 23:59	12/19/12	DMH	MS-Strge & Mtls-Strge & WC	Unconfirmed
280-36727-3 20	WS07	2	8260B	8260B	12/19 23:59	12/19/12	DMH	MS-Strge & Mtls-Strge & WC	Unconfirmed
280-36727-4 20	WSA14	2	8260B	8260B	12/19 23:59	12/19/12	DMH	MS-Strge & Mtls-Strge & WC	Unconfirmed
280-36727-5 20	WSA17	2	8260B	8260B	12/19 23:59	12/19/12	DMH	MS-Strge & Mtls-Strge & WC	Unconfirmed

TestAmerica Denver
GC/MS Initial Calibration Review Checklist

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: H 12/3/12 MAIN ICAL Batch/ICV lines 150224 + CM 12/5
Calibration Event 11820 Work List 6990 2nd Day Batch/ICV lines 150267 2

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	----- Level 1 ----- Yes	No	N/A	Level 2	Comments
Initial Calibration					
1. BFB meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Does the Form VI match the data in the Chrom source method?	✓			✓	
4. Sufficient number of calibration points used?	✓			✓	
5. Reasons for removal of points documented?	✓			✓	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	✓			✓	
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment?	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Label number of standards used recorded?	✓			✓	
11. Manual integrations documented and checked?	✓			✓	
12. 2nd source ICV recovery 75-125% (±25%drift)for DoD projects, 65-135% (±35%,or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section.	✓			✓	

1st Level Reviewer: CM Date: 12/4/12

2nd Level Reviewer: DM Date: 12/5/12

NOT ICAL'D FOR ETHANOL

TestAmerica Denver

Instrument: H

DV-MS-0010/8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 1357-0136

Lims Batch : 150224

Sequence Name: C:\HPCHEM\1\SEQUENCE\120312I.S
Comment:
Operator: meierg
Data Path: C:\HPCHEM\1\DATA\120312i.B\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	H8879	BFBAFC	bfb
2	Sample	1	H8880	8260AFC	std003
3	Sample	2	H8881	8260AFC	std01
4	Sample	3	H8882	8260AFC	std02
5	Sample	4	H8883	8260AFC	std05
6	Sample	5	H8884	8260AFC	std10
7	Sample	6	H8885	8260AFC	std30
8	Sample	7	H8886	8260AFC	std60
9	Sample	8	H8887	8260AFC	std01
10	Sample	9	H8888	8260AFC	std02
11	Sample	10	H8889	8260AFC	std05
12	Sample	11	H8890	8260AFC	icis
13	Sample	12	H8891	8260AFC	std030
14	Sample	13	H8892	8260AFC	std060
15	Sample	14	H8893	8260AFC	icv
16	Sample	15	H8894	8260AFC	icv
17	Sample	16	H8895	8260AFC	mb
18	Sample	17	H8896	8260AFC	280-36125-A-1 MDLV
19	Sample	18	H8897	8260AFC	280-36125-A-2 MDLV
20	Sample	19	H8898	8260AFC	280-36125-A-3 MDLV
21	Sample	20	H8899	8260AFC	280-36125-A-4 MDLV
22	Sample	21	H8900	8260AFC	280-36125-A-5 MDLV
23	Sample	22	H8901	8260AFC	280-36125-A-7 MDLV
24	Sample	23	H8902	8260AFC	280-36125-A-8 MDLV
25	Sample	24	H8903	8260AFC	280-36125-A-9 MDLV
26	Sample	25	H8904	8260AFC	280-36125-A-10 MDLV
27	Sample	26	H8905	8260AFC	280-36125-A-11 MDLV
28	Sample	27	H8906	8260AFC	280-36125-A-6 LOQV
29	Sample	28	H8907	8260AFC	280-36125-A-6 LOQV
30	Sample	29	H8908	8260AFC	280-36125-A-6 LOQV
31	Sample	30	H8909	8260AFC	280-36125-A-12 LOQV
32	Sample	31	H8910	8260AFC	280-36125-A-12 LOQV
33	Sample	32	H8911	8260AFC	280-36125-A-12 LOQV

12/4/12

*Run rejected because of poor purge or QC issue. Do not report.

TestAmerica Denver

Instrument: H

DV-MS-0010 (8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 0751-1906

Lims Batch : 150767

Sequence Name: C:\HPCHEM\1\SEQUENCE\120412.S
Comment:
Operator: meierg
Data Path: C:\HPCHEM\1\DATA\120412.B\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	H8913	BFBAFC	bfb
2	Sample	1	H8914	8260AFC	icv FAILED
3	Sample	100	H8915	BFBAFC	bfb ADJ. TUNE
4	Sample	100	H8916	BFBAFC	bfb, 2E-5 HOT
5	Sample	100	H8917	BFBAFC	bfb ADJ. TUNE
6	Sample	2	H8918	8260AFC	ccv
7	Sample	3	H8919	8260AFC	ccv
8	Sample	4	H8920	8260AFC	icv
9	Sample	5	H8921	8260AFC	lcs
10	Sample	6	H8922	8260AFC	mb
11	Sample	7	H8923	8260AFC	280-36340-N-3
12	Sample	8	H8924	8260AFC	280-36340-O-3 ms
13	Sample	9	H8925	8260AFC	280-36340-O-3 msd
14	Sample	10	H8926	8260AFC	280-36340-A-1
15	Sample	11	H8927	8260AFC	280-36340-E-2
16	Sample	12	H8928	8260AFC	280-36340-D-4
17	Sample	13	H8929	8260AFC	280-36340-D-5
18	Sample	14	H8930	8260AFC	280-36340-D-6
19	Sample	15	H8931	8260AFC	280-36340-D-7 10ml
20	Sample	16	H8932	8260AFC	280-36340-D-7 1ml
21	Sample	17	H8933	8260AFC	280-36340-F-8 10ml
22	Sample	18	H8934	8260AFC	280-36340-F-8 1ml
23	Sample	19	H8935	8260AFC	280-36340-F-9
24	Sample	20	H8936	8260AFC	280-36340-F-9 2ml
25	Sample	21	H8937	8260AFC	280-36340-D-10 10ml
26	Sample	22	H8938	8260AFC	280-36340-D-10 1ml
27	Sample	23	H8939	8260AFC	280-36286-B-1
28	Sample	24	H8940	8260AFC	280-36286-D-2
29	Sample	25	H8941	8260AFC	280-36286-D-2 5ml
30	Sample	26	H8942	8260AFC	280-36286-D-3
31	Sample	27	H8943	8260AFC	280-36286-F-5
32	Sample	28	H8944	8260AFC	280-36286-E-6
33	Sample	29	H8945	8260AFC	280-36286-D-7
34	Sample	30	H8946	8260AFC	280-36286-E-8
35	Sample	31	H8947	8260AFC	280-36286-E-9
36	Sample	32	H8948	8260AFC	280-36125-A-6 LOQV

12/5/12

*Run rejected because of poor purge or QC issue. Do not report.

TestAmerica Laboratories
Worklist Report

Worklist Name: 120312i
Worklist Number: 6990
Instrument Name: VMS_H
Chrom Method: AQ_VMSH_8260
Purge Volume: 20.00
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_H\20121203-6990.b
Upload Directory: \\Densvr08\rawdata\Organics\MS\VMS_H
Run Reagent: MV-Archon IS_00540 Amount Added: 1.000000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0006990-001	# 1 bfb	MV-BFB_00009	BFB		voaWater	1.000000	uL	1.000000
280-0006990-002	# 2 std003	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	1	voaWater	20.00	mL	1.000000
280-0006990-003	# 3 std01	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	2	voaWater	20.00	mL	1.000000
280-0006990-004	# 4 std02	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	3	voaWater	20.00	mL	1.000000
280-0006990-005	# 5 std05	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	4	voaWater	20.00	mL	1.000000
280-0006990-006	# 6 std10	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	5	voaWater	20.00	mL	1.000000
280-0006990-007	# 7 std30	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	6	voaWater	20.00	mL	1.000000
280-0006990-008	# 8 std60	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	7	voaWater	20.00	mL	1.000000
280-0006990-009	# 9 std01	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	IC	2	voaWater	20.00	mL	1.000000
280-0006990-010	#10 std02	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	IC	3	voaWater	20.00	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0006990-011	#11 std05	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	IC	4	voaWater	20.00	mL	1.000000
280-0006990-012	#12 icis	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	ICIS	5	voaWater	20.00	mL	1.000000
280-0006990-013	#13 std30	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	IC	6	voaWater	20.00	mL	1.000000
280-0006990-014	#14 std60	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	IC	7	voaWater	20.00	mL	1.000000
280-0006990-015	#15 icv	MV- BO mix A_00011 MV-SecSrc B_00010 MV-Acrol/Acry_00027 MV-Archon IS_00540 MV-524ICVA_00003 MV-SS GasKe_00023	ICV		voaWater	20.00	mL	1.000000
280-0006990-016	#16 icv	MV-SS 2-Cleve_00007 MV-SS Supp_00015 MV-Archon SS_00676	ICV		voaWater	20.00	mL	1.000000
280-0006990-017	#17 mb		MB		voaWater	20.00	mL	1.000000
280-0006990-018	#18 280-36125-A-1 MDLV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	MDLV		voaWater	20.00	mL	1.000000
280-0006990-019	#19 280-36125-A-2 MDLV	MV-BO mix B_00011 MV-Main_00025 MV-Main GasKe_00036	MDLV		voaWater	20.00	mL	1.000000
280-0006990-020	#20 280-36125-A-3 MDLV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	MDLV		voaWater	20.00	mL	1.000000
280-0006990-021	#21 280-36125-A-4 MDLV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	MDLV		voaWater	20.00	mL	1.000000
280-0006990-022	#22 280-36125-A-5 MDLV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	MDLV		voaWater	20.00	mL	1.000000
280-0006990-023	#23 280-36125-A-7 MDLV	MV-2 Cleve_00013 MV-Supp Std_00027 MV-Acetates_00004 MV-Archon SS_00676	MDLV		voaWater	20.00	mL	1.000000
280-0006990-024	#24 280-36125-A-8 MDLV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	MDLV		voaWater	20.00	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0006990-025	#25 280-36125-A-9 MDLV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	MDLV		voaWater	20.00	mL	1.000000
280-0006990-026	#26 280-36125-A-10 MDLV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	MDLV		voaWater	20.00	mL	1.000000
280-0006990-027	#27 280-36125-A-11 MDLV	MV-Supp Std_00027 MV-2 Cleve_00013 MV-Acetates_00004 MV-Archon SS_00676	MDLV		voaWater	20.00	mL	1.000000
280-0006990-028	#28 280-36125-A-6 LOQV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	LOQV		voaWater	20.00	mL	1.000000
280-0006990-029	#29 280-36125-A-6 LOQV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	LOQV		voaWater	20.00	mL	1.000000
280-0006990-030	#30 280-36125-A-6 LOQV	MV-Main_00025	LOQV		voaWater	20.00	mL	1.000000
280-0006990-031	#31 280-36125-A-12 LOQV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	LOQV		voaWater	20.00	mL	1.000000
280-0006990-032	#32 280-36125-A-12 LOQV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	LOQV		voaWater	20.00	mL	1.000000
280-0006990-033	#33 280-36125-A-12 LOQV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	LOQV		voaWater	20.00	mL	1.000000

TestAmerica Denver
GC/MS Initial Calibration Review Checklist

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Instrument ID and Date: H 12/3/12 Surp ICAL Batch/ICV lines 150224 12/16
Calibration Event 11824 Work List 6990 2nd Day Batch/ICV lines N/A

Check Method Used: Analysis ☐ 624 ☒ 8260B ☐ Other VOA _____

VOA Preparation_ ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments
Initial Calibration					
1. BFB meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Does the Form VI match the data in the Chrom source method?	✓			✓	
4. Sufficient number of calibration points used?	✓			✓	
5. Reasons for removal of points documented?	✓			✓	Some points < RL removed
6. %RSD or correlation coefficient within method limits?	✓			✓	
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment?	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Label number of standards used recorded?	✓			✓	
11. Manual integrations documented and checked?	✓			✓	
12. 2nd source ICV recovery 75-125% (±25% drift) for DoD projects, 65-135% (±35%, or ±55% of expected for poor performers) for non-DoD? Exceptions noted in comment section.	✓			✓	

1st Level Reviewer: _____ Date: 12/4/12

2nd Level Reviewer: _____ Date: 12/5/12

NOT ICAL'D FOR IPA

TestAmerica Denver

Instrument: H

DV-MS-0010/8260B/624) (Circle)

Purge Volume: (20mL/5mL/5g) (Circle)

Tune Time: 1357-0130

Lims Batch : 150224

Sequence Name: C:\HPCHEM\1\SEQUENCE\120312I.S
Comment:
Operator: meierg
Data Path: C:\HPCHEM\1\DATA\120312i.B\
Pre-Seq Cmd:
Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line	Type	Vial	DataFile	Method	Sample Name
1	Sample	100	H8879	BFBAFC	bfb
2	Sample	1	H8880	8260AFC	std003
3	Sample	2	H8881	8260AFC	std01
4	Sample	3	H8882	8260AFC	std02
5	Sample	4	H8883	8260AFC	std05
6	Sample	5	H8884	8260AFC	std10
7	Sample	6	H8885	8260AFC	std30
8	Sample	7	H8886	8260AFC	std60
9	Sample	8	H8887	8260AFC	std01
10	Sample	9	H8888	8260AFC	std02
11	Sample	10	H8889	8260AFC	std05
12	Sample	11	H8890	8260AFC	icis
13	Sample	12	H8891	8260AFC	std030
14	Sample	13	H8892	8260AFC	std060
15	Sample	14	H8893	8260AFC	icv
16	Sample	15	H8894	8260AFC	icv
17	Sample	16	H8895	8260AFC	mb
18	Sample	17	H8896	8260AFC	280-36125-A-1 MDLV
19	Sample	18	H8897	8260AFC	280-36125-A-2 MDLV
20	Sample	19	H8898	8260AFC	280-36125-A-3 MDLV
21	Sample	20	H8899	8260AFC	280-36125-A-4 MDLV
22	Sample	21	H8900	8260AFC	280-36125-A-5 MDLV
23	Sample	22	H8901	8260AFC	280-36125-A-7 MDLV
24	Sample	23	H8902	8260AFC	280-36125-A-8 MDLV
25	Sample	24	H8903	8260AFC	280-36125-A-9 MDLV
26	Sample	25	H8904	8260AFC	280-36125-A-10 MDLV
27	Sample	26	H8905	8260AFC	280-36125-A-11 MDLV
28	Sample	27	H8906	8260AFC	280-36125-A-6 LOQV
29	Sample	28	H8907	8260AFC	280-36125-A-6 LOQV
30	Sample	29	H8908	8260AFC	280-36125-A-6 LOQV
31	Sample	30	H8909	8260AFC	280-36125-A-12 LOQV
32	Sample	31	H8910	8260AFC	280-36125-A-12 LOQV
33	Sample	32	H8911	8260AFC	280-36125-A-12 LOQV

12/4/12

*Run rejected because of poor purge or QC issue. Do not report.

TestAmerica Laboratories
Worklist Report

Worklist Name: 120312i
Worklist Number: 6990
Instrument Name: VMS_H
Chrom Method: AQ_VMSH_8260
Purge Volume: 20.00
Units: mL
Analysis Type: VOA
Batch Directory: \\Denchrom\ChromData\VMS_H\20121203-6990.b
Upload Directory: \\Densvr08\rawdata\Organics\MS\VMS_H
Run Reagent: MV-Archon IS_00540 Amount Added: 1.000000, Units: uL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0006990-001	# 1 bfb	MV-BFB_00009	BFB		voaWater	1.000000	uL	1.000000
280-0006990-002	# 2 std003	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	1	voaWater	20.00	mL	1.000000
280-0006990-003	# 3 std01	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	2	voaWater	20.00	mL	1.000000
280-0006990-004	# 4 std02	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	3	voaWater	20.00	mL	1.000000
280-0006990-005	# 5 std05	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	4	voaWater	20.00	mL	1.000000
280-0006990-006	# 6 std10	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	5	voaWater	20.00	mL	1.000000
280-0006990-007	# 7 std30	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	6	voaWater	20.00	mL	1.000000
280-0006990-008	# 8 std60	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025 MV-Archon IS_00541	IC	7	voaWater	20.00	mL	1.000000
280-0006990-009	# 9 std01	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	IC	2	voaWater	20.00	mL	1.000000
280-0006990-010	#10 std02	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	IC	3	voaWater	20.00	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0006990-011	#11 std05	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	IC	4	voaWater	20.00	mL	1.000000
280-0006990-012	#12 icis	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	ICIS	5	voaWater	20.00	mL	1.000000
280-0006990-013	#13 std30	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	IC	6	voaWater	20.00	mL	1.000000
280-0006990-014	#14 std60	MV-Archon SS_00676 MV-Acetates_00004 MV-2 Cleve_00013 MV-Archon IS_00541 MV-Supp Std_00027	IC	7	voaWater	20.00	mL	1.000000
280-0006990-015	#15 icv	MV- BO mix A_00011 MV-SecSrc B_00010 MV-Acrol/Acry_00027 MV-Archon IS_00540 MV-524ICVA_00003 MV-SS GasKe_00023	ICV		voaWater	20.00	mL	1.000000
280-0006990-016	#16 icv	MV-SS 2-Cleve_00007 MV-SS Supp_00015 MV-Archon SS_00676	ICV		voaWater	20.00	mL	1.000000
280-0006990-017	#17 mb		MB		voaWater	20.00	mL	1.000000
280-0006990-018	#18 280-36125-A-1 MDLV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	MDLV		voaWater	20.00	mL	1.000000
280-0006990-019	#19 280-36125-A-2 MDLV	MV-BO mix B_00011 MV-Main_00025 MV-Main GasKe_00036	MDLV		voaWater	20.00	mL	1.000000
280-0006990-020	#20 280-36125-A-3 MDLV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	MDLV		voaWater	20.00	mL	1.000000
280-0006990-021	#21 280-36125-A-4 MDLV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	MDLV		voaWater	20.00	mL	1.000000
280-0006990-022	#22 280-36125-A-5 MDLV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	MDLV		voaWater	20.00	mL	1.000000
280-0006990-023	#23 280-36125-A-7 MDLV	MV-2 Cleve_00013 MV-Supp Std_00027 MV-Acetates_00004 MV-Archon SS_00676	MDLV		voaWater	20.00	mL	1.000000
280-0006990-024	#24 280-36125-A-8 MDLV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	MDLV		voaWater	20.00	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
280-0006990-025	#25 280-36125-A-9 MDLV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	MDLV		voaWater	20.00	mL	1.000000
280-0006990-026	#26 280-36125-A-10 MDLV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	MDLV		voaWater	20.00	mL	1.000000
280-0006990-027	#27 280-36125-A-11 MDLV	MV-Supp Std_00027 MV-2 Cleve_00013 MV-Acetates_00004 MV-Archon SS_00676	MDLV		voaWater	20.00	mL	1.000000
280-0006990-028	#28 280-36125-A-6 LOQV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	LOQV		voaWater	20.00	mL	1.000000
280-0006990-029	#29 280-36125-A-6 LOQV	MV-BO mix B_00011 MV-Main GasKe_00036 MV-Main_00025	LOQV		voaWater	20.00	mL	1.000000
280-0006990-030	#30 280-36125-A-6 LOQV	MV-Main_00025	LOQV		voaWater	20.00	mL	1.000000
280-0006990-031	#31 280-36125-A-12 LOQV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	LOQV		voaWater	20.00	mL	1.000000
280-0006990-032	#32 280-36125-A-12 LOQV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	LOQV		voaWater	20.00	mL	1.000000
280-0006990-033	#33 280-36125-A-12 LOQV	MV-Acetates_00004 MV-2 Cleve_00013 MV-Supp Std_00027 MV-Archon SS_00676	LOQV		voaWater	20.00	mL	1.000000

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job Number: 280-36712-1

SDG No.:

Project: MAVERICK / FARMINGTON, NM

Client Sample ID	Lab Sample ID
MW-17	280-36712-9
INJ-W	280-36712-10
INJ-S	280-36712-11
INJ-E	280-36712-12
INJ-N	280-36712-13
DUP-1	280-36712-14

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: MW-17 Lab Sample ID: 280-36712-9

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG ID.:

Matrix: Water Date Sampled: 12/05/2012 11:00

Reporting Basis: WET Date Received: 12/06/2012 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14808-79-8	Sulfate	840	100	4.6	mg/L			20	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: INJ-W
Lab Sample ID: 280-36712-10
Lab Name: TestAmerica Denver
Job No.: 280-36712-1
SDG ID.:
Matrix: Water
Date Sampled: 12/05/2012 11:40
Reporting Basis: WET
Date Received: 12/06/2012 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14808-79-8	Sulfate	670	100	4.6	mg/L			20	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: INJ-S
Lab Sample ID: 280-36712-11
Lab Name: TestAmerica Denver
Job No.: 280-36712-1
SDG ID.:
Matrix: Water
Date Sampled: 12/05/2012 12:15
Reporting Basis: WET
Date Received: 12/06/2012 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14808-79-8	Sulfate	510	100	4.6	mg/L			20	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: INJ-E
Lab Sample ID: 280-36712-12
Lab Name: TestAmerica Denver
Job No.: 280-36712-1
SDG ID.:
Matrix: Water
Date Sampled: 12/05/2012 12:50
Reporting Basis: WET
Date Received: 12/06/2012 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14808-79-8	Sulfate	530	100	4.6	mg/L			20	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: INJ-N
Lab Sample ID: 280-36712-13
Lab Name: TestAmerica Denver
Job No.: 280-36712-1
SDG ID.:
Matrix: Water
Date Sampled: 12/05/2012 13:30
Reporting Basis: WET
Date Received: 12/06/2012 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14808-79-8	Sulfate	1000	250	12	mg/L			50	300.0

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - DISSOLVED

Client Sample ID: DUP-1 Lab Sample ID: 280-36712-14

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG ID.:

Matrix: Water Date Sampled: 12/05/2012 00:00

Reporting Basis: WET Date Received: 12/06/2012 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14808-79-8	Sulfate	840	100	4.6	mg/L			20	300.0

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Analyst: EK Batch Start Date: 12/11/2012

Reporting Units: mg/L Analytical Batch No.: 151859

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
9	ICV	09:54	Sulfate	9.81	10.0	98	90-110		IC ICV daily_00968
10	ICB	10:10	Sulfate	0.23				U	
24	CCV	19:01	Sulfate	24.7	25.0	99	90-110		IC daily cal_00968
25	CCB	19:17	Sulfate	0.23				U	
36	CCV	22:11	Sulfate	24.8	25.0	99	90-110		IC daily cal_00968
37	CCB	22:27	Sulfate	0.23				U	
41	CCV	23:30	Sulfate	24.8	25.0	99	90-110		IC daily cal_00968
42	CCB	23:46	Sulfate	0.23				U	
53	CCV	10:16	Sulfate	25.4	25.0	102	90-110		IC daily cal_00968
54	CCB	10:32	Sulfate	0.23				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 151859	Date: 12/11/2012 11:13						
300.0	MB 280-151859/14	Sulfate	0.23	U	mg/L	5.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 151859 Date: 12/11/2012 22:58											
300.0	280-36559-A-12	Sulfate	27		mg/L						
300.0	280-36559-A-12 MS	Sulfate	155		mg/L	125	103	80-120			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 151859 Date: 12/11/2012 23:14											
300.0	280-36559-A-1 2 MSD	Sulfate	156		mg/L	125	103	80-120	0	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 151859 Date: 12/11/2012 22:43								
300.0		280-36559-A-12	Sulfate	27	mg/L			
300.0		280-36559-A-12 DU	Sulfate	27.0	mg/L	0.3	15	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 151859	Date: 12/11/2012 10:41										
						LCS Source: IC daily cal_00968					
300.0	LCS 280-151859/12	Sulfate	23.6		mg/L	25.0	94	90-110	0	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
LAB CONTROL SAMPLE DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 151859	Date: 12/11/2012 10:57										
						LCSD Source: IC daily cal_00968					
300.0	LCSD 280-151859/13	Sulfate	23.6		mg/L	25.0	94	90-110	0	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 151859	Date: 12/11/2012 10:25										
						LCS Source:	IC CAL INT1_00187				
300.0	MRL 280-151859/11	Sulfate	0.998	J	mg/L	1.00	100	50-150			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Denver Job Number: 280-36712-1

SDG Number:

Matrix: Water Instrument ID: WC_IC7

Method: 300.0 MDL Date: 03/23/2010 16:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		5	0.232

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - DISSOLVED

Lab Name: TestAmerica Denver Job Number: 280-36712-1

SDG Number:

Matrix: Water Instrument ID: WC_IC7

Method: 300.0 XMDL Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		5	0.232

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Instrument ID: WC_IC7 Method: 300.0

Start Date: 12/11/2012 07:47 End Date: 12/12/2012 10:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			07:47																				
ZZZZZZ			08:03																				
ZZZZZZ			08:19																				
ZZZZZZ			08:35																				
ZZZZZZ			08:51																				
ZZZZZZ			09:06																				
ZZZZZZ			09:22																				
ZZZZZZ			09:38																				
ICV 280-151859/9	1		09:54	X																			
ICB 280-151859/10	1		10:10	X																			
MRL 280-151859/11	1	T	10:25	X																			
LCS 280-151859/12	1	T	10:41	X																			
LCSD 280-151859/13	1	T	10:57	X																			
MB 280-151859/14	1	T	11:13	X																			
ZZZZZZ			11:57																				
ZZZZZZ			14:18																				
ZZZZZZ			14:34																				
ZZZZZZ			17:26																				
ZZZZZZ			17:42																				
ZZZZZZ			17:58																				
ZZZZZZ			18:14																				
ZZZZZZ			18:30																				
ZZZZZZ			18:45																				
CCV 280-151859/24	1		19:01	X																			
CCB 280-151859/25	1		19:17	X																			
ZZZZZZ			19:33																				
ZZZZZZ			19:49																				
ZZZZZZ			20:04																				
ZZZZZZ			20:20																				
ZZZZZZ			20:36																				
ZZZZZZ			20:52																				
ZZZZZZ			21:08																				
ZZZZZZ			21:24																				
ZZZZZZ			21:39																				
ZZZZZZ			21:55																				
CCV 280-151859/36	1		22:11	X																			
CCB 280-151859/37	1		22:27	X																			
280-36559-A-12 DU	5	T	22:43	X																			
280-36559-A-12 MS	5	T	22:58	X																			
280-36559-A-12 MSD	5	T	23:14	X																			
CCV 280-151859/41	1		23:30	X																			
CCB 280-151859/42	1		23:46	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Instrument ID: WC_IC7 Method: 300.0

Start Date: 12/11/2012 07:47 End Date: 12/12/2012 10:32

Lab Sample ID	D / F	Type	Time	Analytes																			
				SO4																			
ZZZZZZ			07:38																				
ZZZZZZ			07:54																				
ZZZZZZ			08:10																				
ZZZZZZ			08:26																				
280-36712-13	50	D	08:42	X																			
280-36712-14	20	D	08:57	X																			
280-36712-9	20	D	09:13	X																			
280-36712-10	20	D	09:29	X																			
280-36712-11	20	D	09:45	X																			
280-36712-12	20	D	10:01	X																			
CCV 280-151859/53	1		10:16	X																			
CCB 280-151859/54	1		10:32	X																			

Prep Types

D = Dissolved

T = Total/NA

Wet Chemistry Data Review Checklist
For Tests with Calibration Curves

Test Name/ Method #: IC **SOP #** WC # 0020

Instrument: IC 7 **Analyst:** E. KUSCA **Analysis Date:** 12-11-12

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
280-36546, 36559, 36712	Aq		157859		

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Minimum of five standards in ICAL or as specified in method?	✓			✓
2. Correlation coefficient ≥ 0.995 ?	✓			✓
3. Second-source ICV analyzed, and recovery within acceptance limits?	✓			✓
4. ICB analyzed immediately after the ICV & results < the RL	✓			✓
5. CCV analyzed after every ten samples & recovery within acceptance limits?	✓			✓
6. CCB analyzed after every CCV & results < RL?	✓			✓
7. Absolute value of the intercept is < ± ½ the RL?	✓			✓
B. Sample Results				
1. All samples greater than highest calibration standard diluted and reanalyzed?	✓			✓
2. Do associated RLs/MDLs reflect dilutions or limited sample volume?	✓			✓
3. All reported results bracketed by in control CCV results?	✓			✓
4. Sample analyses done within holding time?	✓			✓
5. Initial pH check documented for all samples? (If Applicable)			✓	✓
6. Preparation benchsheet completed and included in package?			✓	✓
7. Client requirements reviewed and met?	✓			✓
8. Were data manually transcribed from instrument printouts into TALS verified 100% including significant figures and correct units? (If Applicable)	✓			✓
9. Do the prep and analysis dates in TALS reflect the actual dates?	✓			✓
11. Raw data copies prepared, scanned, and uploaded?	✓			✓
12. Manual integrations done properly and initialed and dated?	✓			✓
13. STD/True Value information is updated and included?	✓			✓
C. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10x blank have NCM?	✓			✓
2. Method blank < ½ RL or NCM provided?	✓			✓
3. LCS/LCSD run for batch and within QC limits?	✓			✓
4. MS/MSD run at required frequency and within limits or NCM written?	✓			✓
5. DUP run at required frequency and RPD within acceptance limits or NCM written?	✓			✓

Analyst: E. Kusca **Date:** 12-12-12

2nd Level Reviewer : [signature] **Date:** 12/16/12

Sample ID	Prepared Dilution	mLs of Sample Used	mLs of DI water Used	Comments
280-36559-5	5x	1.0	4.0	
-7	10x	0.5	4.5	
-8	5x	1.0	4.0	
-9	5x	1.0	4.0	
-10	10x	0.5	4.5	
-12	5x	1.0	4.0	
-12 DU	5x	1.0	4.0	
-12 MS	5x	1.0	4.0	
-12 MSD	5x	1.0	4.0	
280-36492-5	10x	0.5	4.5	
1	5x	1.0	4.0	
2	5x	1.0	4.0	
3	5x	1.0	4.0	
3MS	5x	1.0	3.95	
3MSD	5x	1.0	3.95	
3DU	5x	1.0	4.0	
4	5x	1.0	4.0	
5	20x	0.25	4.75	
				12-11-12 CO

Title:
Datasource: D142FB31_local
Location: IC-7\sequences\anions\2012\12 12
Timebase: IC-7 Created: 12/11/2012 7:38:53 AM by WETCHEMD
#Samples: 55 Last Update: 12/12/2012 3:16:57 PM by WETCHEMD

No.	Name	Type	Pos.	Inj. Vol.	Program	Method
1	RT CHECK	Unknown	124	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
2	cal std 1	Standard	4	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
3	cal std 2	Standard	5	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
4	cal std 3	Standard	4	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
5	cal std 4	Standard	5	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
6	cal std 5	Standard	91	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
7	cal std 6	Standard	87	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
8	BLK	Unknown	88	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
9	ICV STD#00968	Unknown	110	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
10	ICB	Unknown	114	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
11	MRL 0.02	Unknown	117	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
12	LCS STD#00968	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
13	LCSD	Unknown	115	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
14	MB	Unknown	114	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
15	280-36525-a-4-d loqv	Unknown	114	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
16	mb 280-151366/1-a	Unknown	115	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
17	280-36520-a-4-e loqv	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
18	280-36546-a-1 10X	Unknown	117	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
19	DU 280-36546-a-1 10X	Unknown	118	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
20	MS 280-36546-a-1 10X	Unknown	115	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
21	MSD 280-36546-a-1 10X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
22	280-36546-a-2 5X	Unknown	114	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
23	280-36546-a-3 5X	Unknown	114	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
24	CCV	Unknown	115	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
25	CCB	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
26	280-36546-a-5 5X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
27	280-36546-a-6 20X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
28	280-36546-a-8 5X	Unknown	115	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
29	280-36546-a-12 5X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
30	280-36559-a-5 5X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
31	280-36559-a-7 10X	Unknown	115	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
32	280-36559-a-8 5X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
33	280-36559-a-9 5X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
34	280-36559-a-10 10X	Unknown	117	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
35	280-36559-a-12 5X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
36	CCV	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
37	CCB	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
38	DU 280-36559-a-12 5X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
39	MS 280-36559-a-12 5X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
40	MSD 280-36559-a-12 5X	Unknown	116	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
41	CCV	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
42	CCB	Unknown	112	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
43	280-36712-a-9	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
44	280-36712-a-10	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03

Title:
Datasource: D142FB31_local
Location: IC-7\sequences\anions\2012\12 12
Timebase: IC-7 Created: 12/11/2012 7:38:53 AM by WETCHEMD
#Samples: 55 Last Update: 12/12/2012 3:16:57 PM by WETCHEMD

No.	Name	Status	Inj. Date/Time	Weight	Dil. Factor	ISTD Amount	Sample ID	Replicate ID
1	RT CHECK	Finished	12/11/2012 7:47:50 AM	1.0000	1.0000	1.0000	100	
2	cal std 1	Finished	12/11/2012 8:03:39 AM	1.0000	1.0000	1.0000	101	
3	cal std 2	Finished	12/11/2012 8:19:28 AM	1.0000	1.0000	1.0000	102	
4	cal std 3	Finished	12/11/2012 8:35:16 AM	1.0000	1.0000	1.0000	103	
5	cal std 4	Finished	12/11/2012 8:51:04 AM	1.0000	1.0000	1.0000	104	
6	cal std 5	Finished	12/11/2012 9:06:53 AM	1.0000	1.0000	1.0000	105	
7	cal std 6	Finished	12/11/2012 9:22:42 AM	1.0000	1.0000	1.0000	106	
8	BLK	Finished	12/11/2012 9:38:30 AM	1.0000	1.0000	1.0000	107	
9	ICV STD#00968	Finished	12/11/2012 9:54:18 AM	1.0000	1.0000	1.0000	108	
10	ICB	Finished	12/11/2012 10:10:07 AM	1.0000	1.0000	1.0000	109	
11	MRL 0.02	Finished	12/11/2012 10:25:55 AM	1.0000	1.0000	1.0000	110	
12	LCS STD#00968	Finished	12/11/2012 10:41:44 AM	1.0000	1.0000	1.0000	111	
13	LCSD	Finished	12/11/2012 10:57:33 AM	1.0000	1.0000	1.0000	112	
14	MB	Finished	12/11/2012 11:13:22 AM	1.0000	1.0000	1.0000	113	
15	280-36525-a-4-d loqv	Finished	12/11/2012 11:57:45 AM	1.0000	1.0000	1.0000	114	
16	mb 280-151366/1-a	Finished	12/11/2012 2:18:55 PM	1.0000	1.0000	1.0000	115	
17	280-36520-a-4-e loqv	Finished	12/11/2012 2:34:43 PM	1.0000	1.0000	1.0000	116	
18	280-36546-a-1 10X	Finished	12/11/2012 5:26:53 PM	1.0000	10.0000	1.0000	117	
19	DU 280-36546-a-1 10X	Finished	12/11/2012 5:42:41 PM	1.0000	10.0000	1.0000	118	
20	MS 280-36546-a-1 10X	Finished	12/11/2012 5:58:31 PM	1.0000	10.0000	1.0000	119	
21	MSD 280-36546-a-1 10X	Finished	12/11/2012 6:14:19 PM	1.0000	10.0000	1.0000	120	
22	280-36546-a-2 5X	Finished	12/11/2012 6:30:07 PM	1.0000	5.0000	1.0000	121	
23	280-36546-a-3 5X	Finished	12/11/2012 6:45:56 PM	1.0000	5.0000	1.0000	122	
24	CCV	Finished	12/11/2012 7:01:44 PM	1.0000	1.0000	1.0000	123	
25	CCB	Finished	12/11/2012 7:17:32 PM	1.0000	1.0000	1.0000	124	
26	280-36546-a-5 5X	Finished	12/11/2012 7:33:21 PM	1.0000	5.0000	1.0000	125	
27	280-36546-a-6 20X	Finished	12/11/2012 7:49:09 PM	1.0000	20.0000	1.0000	126	
28	280-36546-a-8 5X	Finished	12/11/2012 8:04:58 PM	1.0000	5.0000	1.0000	127	
29	280-36546-a-12 5X	Finished	12/11/2012 8:20:46 PM	1.0000	5.0000	1.0000	128	
30	280-36559-a-5 5X	Finished	12/11/2012 8:36:34 PM	1.0000	5.0000	1.0000	129	
31	280-36559-a-7 10X	Finished	12/11/2012 8:52:23 PM	1.0000	10.0000	1.0000	130	
32	280-36559-a-8 5X	Finished	12/11/2012 9:08:11 PM	1.0000	5.0000	1.0000	131	
33	280-36559-a-9 5X	Finished	12/11/2012 9:24:00 PM	1.0000	5.0000	1.0000	132	
34	280-36559-a-10 10X	Finished	12/11/2012 9:39:48 PM	1.0000	10.0000	1.0000	133	
35	280-36559-a-12 5X	Finished	12/11/2012 9:55:36 PM	1.0000	5.0000	1.0000	134	
36	CCV	Finished	12/11/2012 10:11:24 PM	1.0000	1.0000	1.0000	135	
37	CCB	Finished	12/11/2012 10:27:13 PM	1.0000	1.0000	1.0000	136	
38	DU 280-36559-a-12 5X	Finished	12/11/2012 10:43:01 PM	1.0000	5.0000	1.0000	137	
39	MS 280-36559-a-12 5X	Finished	12/11/2012 10:58:50 PM	1.0000	5.0000	1.0000	138	
40	MSD 280-36559-a-12 5X	Finished	12/11/2012 11:14:38 PM	1.0000	5.0000	1.0000	139	
41	CCV	Finished	12/11/2012 11:30:26 PM	1.0000	1.0000	1.0000	140	
42	CCB	Finished	12/11/2012 11:46:15 PM	1.0000	1.0000	1.0000	141	
43	280-36712-a-9	Finished	12/12/2012 7:38:47 AM	1.0000	1.0000	1.0000	142	
44	280-36712-a-10	Finished	12/12/2012 7:54:35 AM	1.0000	1.0000	1.0000	143	

Title:
Datasource: D142FB31_local
Location: IC-7\sequences\anions\2012\12 12
Timebase: IC-7 Created: 12/11/2012 7:38:53 AM by WETCHEMD
#Samples: 55 Last Update: 12/12/2012 3:16:57 PM by WETCHEMD

No.	Name	Comment	Auto Purif.Frac.
1	RT CHECK	EMK	
2	cal std 1	EMK	
3	cal std 2	EMK	
4	cal std 3	EMK	
5	cal std 4	EMK	
6	cal std 5	EMK	
7	cal std 6	EMK	
8	BLK	EMK	
9	ICV STD#00968	EMK	
10	ICB	EMK	
11	MRL 0.02	EMK	
12	LCS STD#00968	EMK	
13	LCSD	EMK	
14	MB	EMK	
15	280-36525-a-4-d loqv	EMK	
16	mb 280-151366/1-a	EMK	
17	280-36520-a-4-e loqv	EMK	
18	280-36546-a-1 10X	EMK	
19	DU 280-36546-a-1 10X	EMK	
20	MS 280-36546-a-1 10X	EMK	
21	MSD 280-36546-a-1 10X	EMK	
22	280-36546-a-2 5X	EMK	
23	280-36546-a-3 5X	EMK	
24	CCV	EMK	
25	CCB	EMK	
26	280-36546-a-5 5X	EMK	
27	280-36546-a-6 20X	EMK	
28	280-36546-a-8 5X	EMK	
29	280-36546-a-12 5X	EMK	
30	280-36559-a-5 5X	EMK	
31	280-36559-a-7 10X	EMK	
32	280-36559-a-8 5X	EMK	
33	280-36559-a-9 5X	EMK	
34	280-36559-a-10 10X	EMK	
35	280-36559-a-12 5X	EMK	
36	CCV	EMK	
37	CCB	EMK	
38	DU 280-36559-a-12 5X	EMK	
39	MS 280-36559-a-12 5X	EMK	
40	MSD 280-36559-a-12 5X	EMK	
41	CCV	EMK	
42	CCB	EMK	
43	280-36712-a-9	EMK	
44	280-36712-a-10	EMK	

Title:
Datasource: D142FB31_local
Location: IC-7\sequences\anions\2012\12 12
Timebase: IC-7 Created: 12/11/2012 7:38:53 AM by WETCHEMD
#Samples: 55 Last Update: 12/12/2012 3:16:57 PM by WETCHEMD

No.	Name	Type	Pos.	Inj. Vol.	Program	Method
45	280-36712-a-11	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
46	280-36712-a-12	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
47	280-36712-a-13 50X	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
48	280-36712-a-14 20X	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
49	280-36712-a-9 20X	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
50	280-36712-a-10 20X	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
51	280-36712-a-11 20X	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
52	280-36712-a-12 20X	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
53	CCV	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
54	CCB	Unknown	113	10.0	as 17 gradient program 09-09-05	Anions Quant Method 12-30-03
55	END	Unknown	302	10.0	stop program	Anions Quant Method 12-30-03

Title:
Datasource: D142FB31_local
Location: IC-7\sequences\anions\2012\12 12
Timebase: IC-7 Created: 12/11/2012 7:38:53 AM by WETCHEMD
#Samples: 55 Last Update: 12/12/2012 3:16:57 PM by WETCHEMD

No.	Name	Status	Inj. Date/Time	Weight	Dil. Factor	ISTD Amount	Sample ID	Replicate ID
45	280-36712-a-11	Finished	12/12/2012 8:10:23 AM	1.0000	1.0000	1.0000	144	
46	280-36712-a-12	Finished	12/12/2012 8:26:12 AM	1.0000	1.0000	1.0000	145	
47	280-36712-a-13 50X	Finished	12/12/2012 8:42:00 AM	1.0000	50.0000	1.0000	146	
48	280-36712-a-14 20X	Finished	12/12/2012 8:57:49 AM	1.0000	20.0000	1.0000	147	
49	280-36712-a-9 20X	Finished	12/12/2012 9:13:37 AM	1.0000	20.0000	1.0000	148	
50	280-36712-a-10 20X	Finished	12/12/2012 9:29:26 AM	1.0000	20.0000	1.0000	149	
51	280-36712-a-11 20X	Finished	12/12/2012 9:45:14 AM	1.0000	20.0000	1.0000	150	
52	280-36712-a-12 20X	Finished	12/12/2012 10:01:03 AM	1.0000	20.0000	1.0000	151	
53	CCV	Finished	12/12/2012 10:16:51 AM	1.0000	1.0000	1.0000	152	
54	CCB	Finished	12/12/2012 10:32:40 AM	1.0000	1.0000	1.0000	153	
55	END	Finished	12/12/2012 12:02:03 AM	1.0000	1.0000	1.0000	154	

Title:
Datasource: D142FB31_local
Location: IC-7\sequences\anions\2012\12 12
Timebase: IC-7 Created: 12/11/2012 7:38:53 AM by WETCHEMD
#Samples: 55 Last Update: 12/12/2012 3:16:57 PM by WETCHEMD

No.	Name	Comment	Auto Purif.Frac.
45	280-36712-a-11	EMK	
46	280-36712-a-12	EMK	
47	280-36712-a-13 50X	EMK	
48	280-36712-a-14 20X	EMK	
49	280-36712-a-9 20X	EMK	
50	280-36712-a-10 20X	EMK	
51	280-36712-a-11 20X	EMK	
52	280-36712-a-12 20X	EMK	
53	CCV	EMK	
54	CCB	EMK	
55	END	EMK	

Title: as 17 gradient program 09-09-05
Datasource: D142FB31_local Created: 9/9/2005 4:20:47 PM by scofiela
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ
Timebase: IC-7 Changed: 4/4/2006 1:05:23 PM by kudlae

```
        CellTemperature =            35.0
        ColumnTemperature =          30.0
        Pressure.LowerLimit =        200
        Pressure.UpperLimit =        3000
        %A.Equate =                  "DI H2O"
        CR_TC =                      On
        LoadPosition
        Data_Collection_Rate =       5.0
        Suppressor_Type =            ASRS_4mm
        Suppressor_Current =         100
        ECD_Total.Step =             0.50
        ECD_Total.Average =          Off
        Channel_Pressure.Step =      0.50
        Channel_Pressure.Average =   Off

-2.700  Concentration =              10.00
        Curve =                      5
        Pump_ECD_Relay_1.State       Open
        Flow=                        1.00

-2.500  Pump_ECD_Relay_1.State       Closed



 0.000  Autozero
        ECD_1.AcqOn
        ECD_Total.AcqOn
        Channel_Pressure.AcqOn
        Pump_InjectValve.InjectPosition          Duration=720.00

 4.000  Concentration =              10.00
        Curve =                      5



10.500  Concentration =              40.00
        Curve =                      5

13.0    ECD_1.AcqOff
        ECD_Total.AcqOFF
        Channel_Pressure.AcqOff

        End
```

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Title: as 17 gradient program 09-09-05
Datasource: D142FB31_local
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ Created: 9/9/2005 4:20:47 PM by scofiela
Timebase: IC-7 Changed: 4/4/2006 1:05:23 PM by kudlae

No.	Channel	Operation	Parameters

Title: rinse, stop program
Datasource: D142FB31_local Created: 12/30/2003 1:25:17 PM by Administrator
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ
Timebase: IC-7 Changed: 3/12/2005 2:43:12 PM by scofiela

```
        PumpMode =                  Off
        Pressure.LowerLimit =       200
        Pressure.UpperLimit =       3000
        %A.Equate =                 "DI H2O"
        CR_TC =                     OFF
        LoadPosition
        Data_Collection_Rate =      5.0
        CellTemperature =           0.0
        ColumnTemperature =         0.0
        Suppressor_Type =           ASRS_4mm
        ; Carbonate =               0.0
        ; Bicarbonate =             0.0
        ; Hydroxide =               0.1
        ; Tetraborate =             0.0
        ; Other eluent =            0.0
        ; Recommended Current =     ?
        Suppressor_Current =        0
        ECD_Total.Step =            0.50
        ECD_Total.Average =         Off
        Channel_Pressure.Step =     0.50
        Channel_Pressure.Average =  Off
0.000   Concentration =             10.00
        Curve =                     5
        Flow =                      1.5
        Pump_ECD.Autozero
        ECD_1.AcqOn
        ECD_Total.AcqOn
        Channel_Pressure.AcqOn


0.500   ECD_1.AcqOff
        ECD_Total.AcqOff
        Channel_Pressure.AcqOff
        Concentration =             10.0
        Curve =                     5

        End
```

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Title: rinse, stop program
Datasource: D142FB31_local
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ
Created: 12/30/2003 1:25:17 PM by Administrator
Timebase: IC-7
Changed: 3/12/2005 2:43:12 PM by scofiela

No.	Channel	Operation	Parameters

Title: 9056
Datasource: D142FB31_local Created: 1/22/2004 7:51:32 PM by coonl
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ Last Update: 12/11/2012 8:06:22 AM by WETCHEMD

Blank Run Subtraction: No Blank Run Subtraction

Detection Table:

No.	Ret. Time [min]	Param. Name	Param. Value	Channel
1	0.000	Minimum Area	0.8E-3 "[Signal]*min"	All Channels
2	0.000	Sensitivity	0.8E-3 "[Signal]"	All Channels
3	0.000	Valley to Valley	On	All Channels
4	0.000	Tailing Sensitivity Factor	8.0	All Channels
5	0.000	Fronting Sensitivity Factor	2.0	All Channels
6	0.000	Inhibit Integration	On	All Channels
7	1.000	Inhibit Integration	Off	All Channels
8	1.000	Void Volume Treatment	On	All Channels
9	1.150	Maximum Width	0.40 min	All Channels
10	1.200	Void Volume Treatment	Off	All Channels
11	7.000	Tailing Sensitivity Factor	6.0	All Channels

Title: 9056
Datasource: D142FB31_local Created: 1/22/2004 7:51:32 PM by coonl
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ Last Update: 12/11/2012 8:06:22 AM by WETCHEMD

Peak Table:

Use Recently Detected Retention Times: Last standard
Peak Retention Time Determination: Absolute
Dead time:
Delay Time of 2'nd Detector: <None>
Delay Time of 3'rd Detector: <None>

No.	Peak Name	Ret.Time	Window	Standard	Int.Type	Cal.Type	Peak Type	Group	Comment
1	*Fluoride*	*1.900 min*	*10.000 RN*	*External*	*Area*	*XLOff*	*Main*		*Autogenerated*
2	Acetate	2.500 min	10.000 RN	External	Area	XLOff	Main		Autogenerated
3	Chloride	3.000 min	10.000 RN	External	Area	XLOff	Main		Autogenerated
4	Nitrite	3.400 min	10.000 RN	External	Area	XLOff	Main		Autogenerated
5	Bromide	5.500 min	5.000 RN	External	Area	XLOff	Main		Autogenerated
6	Nitrate	5.800 min	5.000 RN	External	Area	XLOff	Main		Autogenerated
7	Carbonate	8.000 min	1.000 RN	External	Area	XLOff	Main		Autogenerated
8	Sulfate	8.500 min	10.000 RG	External	Area	XLOff	Rider		Autogenerated
9	Ortho as P	10.700 min	10.000 RN	External	Area	XLOff	Main		Autogenerated

Title: 9056
Datasource: D142FB31_local Created: 1/22/2004 7:51:32 PM by coonl
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ Last Update: 12/11/2012 8:06:22 AM by WETCHEMD

Amount Table:

Dimension of Amounts: mg/L
Reference volume for amounts: Use inject volume of first standard
Number of Amount Columns: 6
Sample column used for amount column assignment: Sample Name

No.	Peak Name	Ret.Time	Resp.Fact.	Amount cal std 1	Amount cal std 2	Amount cal std 3	Amount cal std 4	Amount cal std 5	Amount cal std 6	Comment
1	*Fluoride*	*1.900 min*	*1.000000*	*0.200000*	*0.500000*	*1.000000*	*4.000000*	*8.000000*	*10.000000*	*Autogenerated*
2	Acetate	2.500 min	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	Autogenerated
3	Chloride	3.000 min	1.000000	1.000000	2.500000	5.000000	20.000000	40.000000	50.000000	Autogenerated
4	Nitrite	3.400 min	1.000000	0.200000	0.500000	1.000000	4.000000	8.000000	10.000000	Autogenerated
5	Bromide	5.500 min	1.000000	0.200000	0.500000	1.000000	4.000000	8.000000	10.000000	Autogenerated
6	Nitrate	5.800 min	1.000000	0.200000	0.500000	1.000000	4.000000	8.000000	10.000000	Autogenerated
7	Carbonate	8.000 min	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	Autogenerated
8	Sulfate	8.500 min	1.000000	1.000000	2.500000	5.000000	20.000000	40.000000	50.000000	Autogenerated
9	Ortho as P	10.700 min	1.000000	0.200000	0.500000	1.000000	4.000000	8.000000	10.000000	Autogenerated

Title: 9056
Datasource: D142FB31_local Created: 1/22/2004 7:51:32 PM by coonl
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ Last Update: 12/11/2012 8:06:22 AM by WETCHEMD

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal

No.	Enabled	Name	Smp.No.	Pos.	Inj. Vol.	Weight	ISTD Amount	Dil. Factor	Inj. Date/Time	Sample Comment
1	☒	cal std	2	4	10.0	1.0000	1.0000	1.0000	12/11/2012 8:0	EMK
2	☒	cal std	3	5	10.0	1.0000	1.0000	1.0000	12/11/2012 8:1	EMK
3	☒	cal std	4	4	10.0	1.0000	1.0000	1.0000	12/11/2012 8:3	EMK
4	☒	cal std	5	5	10.0	1.0000	1.0000	1.0000	12/11/2012 8:5	EMK
5	☒	cal std	6	91	10.0	1.0000	1.0000	1.0000	12/11/2012 9:0	EMK
6	☒	cal std	7	87	10.0	1.0000	1.0000	1.0000	12/11/2012 9:2	EMK

Title: 9056
Datasource: D142FB31_local Created: 1/22/2004 7:51:32 PM by coonl
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ Last Update: 12/11/2012 8:06:22 AM by WETCHEMD

Calibration:

Calibration Mode: Total
Auto Recalibrate: On
Curve Fitting Model: Normal

No.	Enabled	Name	Calib.	Comment
1	☒	cal std	Ok	
2	☒	cal std	Ok	
3	☒	cal std	Ok	
4	☒	cal std	Ok	
5	☒	cal std	Ok	
6	☒	cal std	Ok	

Title: 9056
Datasource: D142FB31_local Created: 1/22/2004 7:51:32 PM by coonl
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ Last Update: 12/11/2012 8:06:22 AM by WETCHEMD

System Suitability Test:

No.	Name	Sample Condition	Test Condition	Aggregate	Operator	Value	Channel	Peak	N.A.
1									

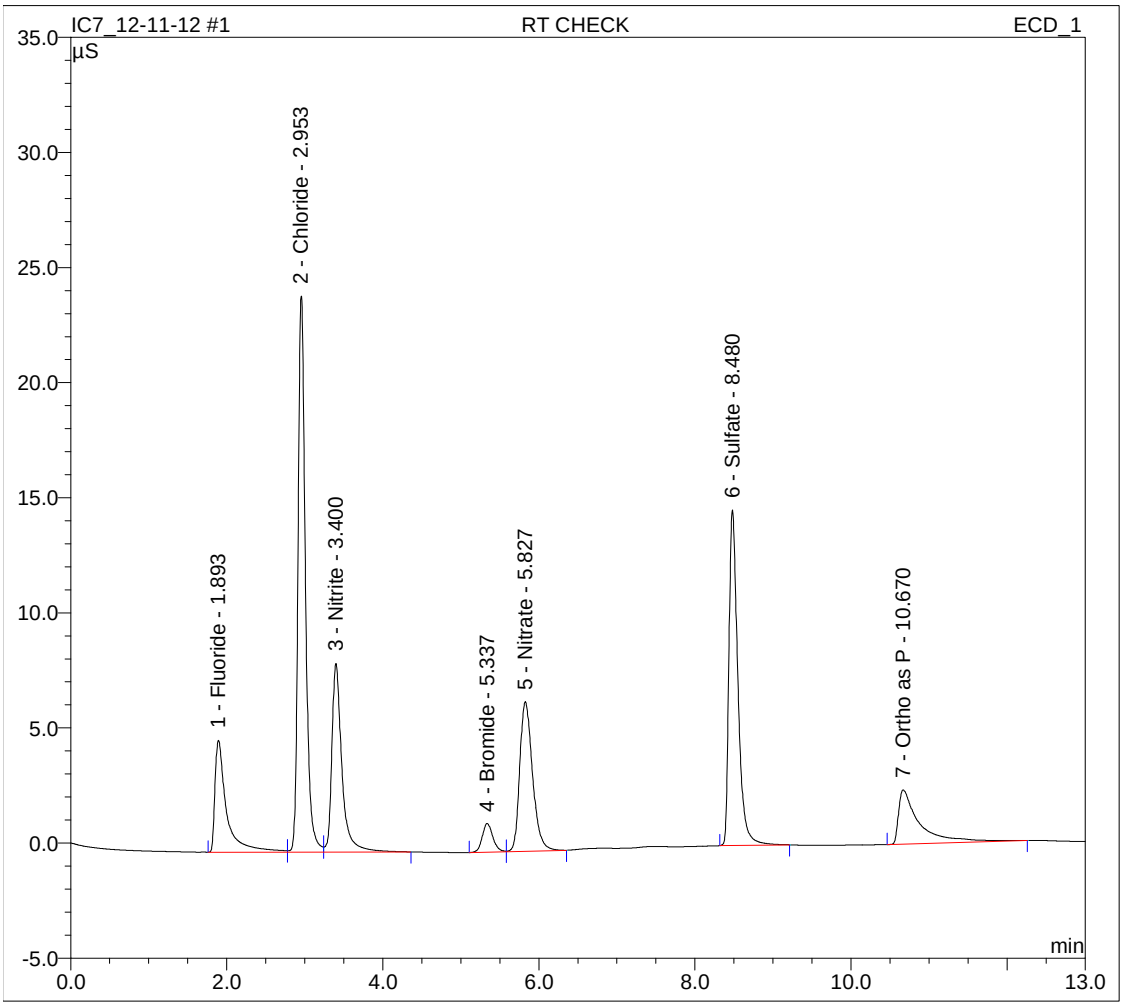
Title: 9056
Datasource: D142FB31_local Created: 1/22/2004 7:51:32 PM by coonl
Location: IC-7\sequences\anions\2012\12 12\IC7_12-11-12.SEQ Last Update: 12/11/2012 8:06:22 AM by WETCHEMD

System Suitability Test:

No.	Name	Fail-Action	Result	SST Message
1				

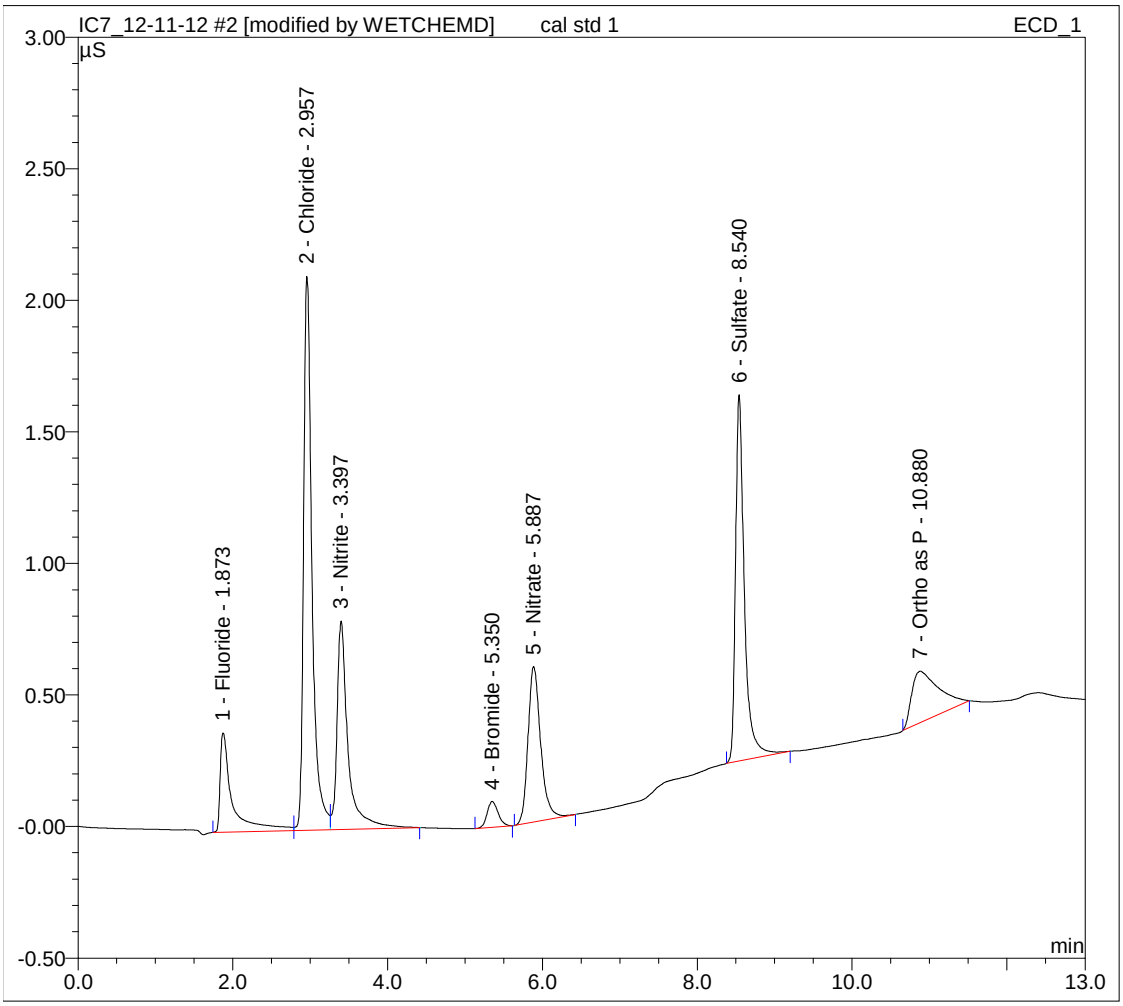
Sample Name:	**RT CHECK**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 07:47**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.89	Fluoride	BM	0.839	4.859	2.0710
2	2.95	Chloride	M	2.660	24.158	10.4780
3	3.40	Nitrite	MB	1.228	8.199	2.1101
4	5.34	Bromide	BM	0.195	1.244	1.8979
5	5.83	Nitrate	MB	1.233	6.488	1.9573
6	8.48	Sulfate	BMB	1.942	14.582	10.2195
7	10.67	Ortho as P	BMB	0.727	2.353	2.1628
TOTAL:				8.82	61.88	30.90



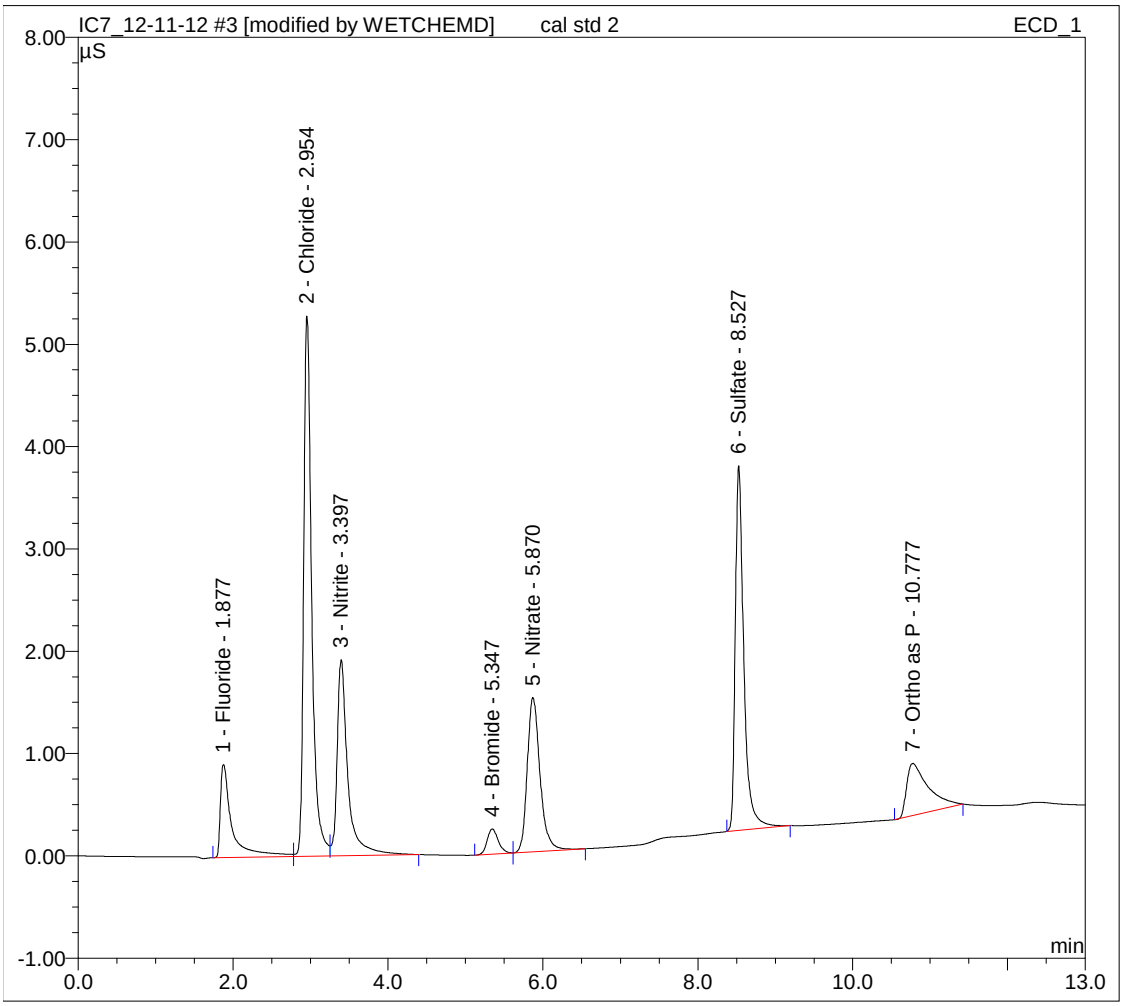
Sample Name:	**cal std 1**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 08:03**	*Run Time:*	**13.01**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BM	0.069	0.376	0.2402
2	2.96	Chloride	M	0.266	2.106	0.9964
3	3.40	Nitrite	MB	0.131	0.793	0.1884
4	5.35	Bromide	BMB	0.016	0.098	0.2273
5	5.89	Nitrate	BMB	0.112	0.592	0.2084
6	8.54	Sulfate	BMB	0.184	1.392	1.0206
7	10.88	Ortho as P	BMB*	0.078	0.197	0.1741
		TOTAL:		0.86	5.55	3.06



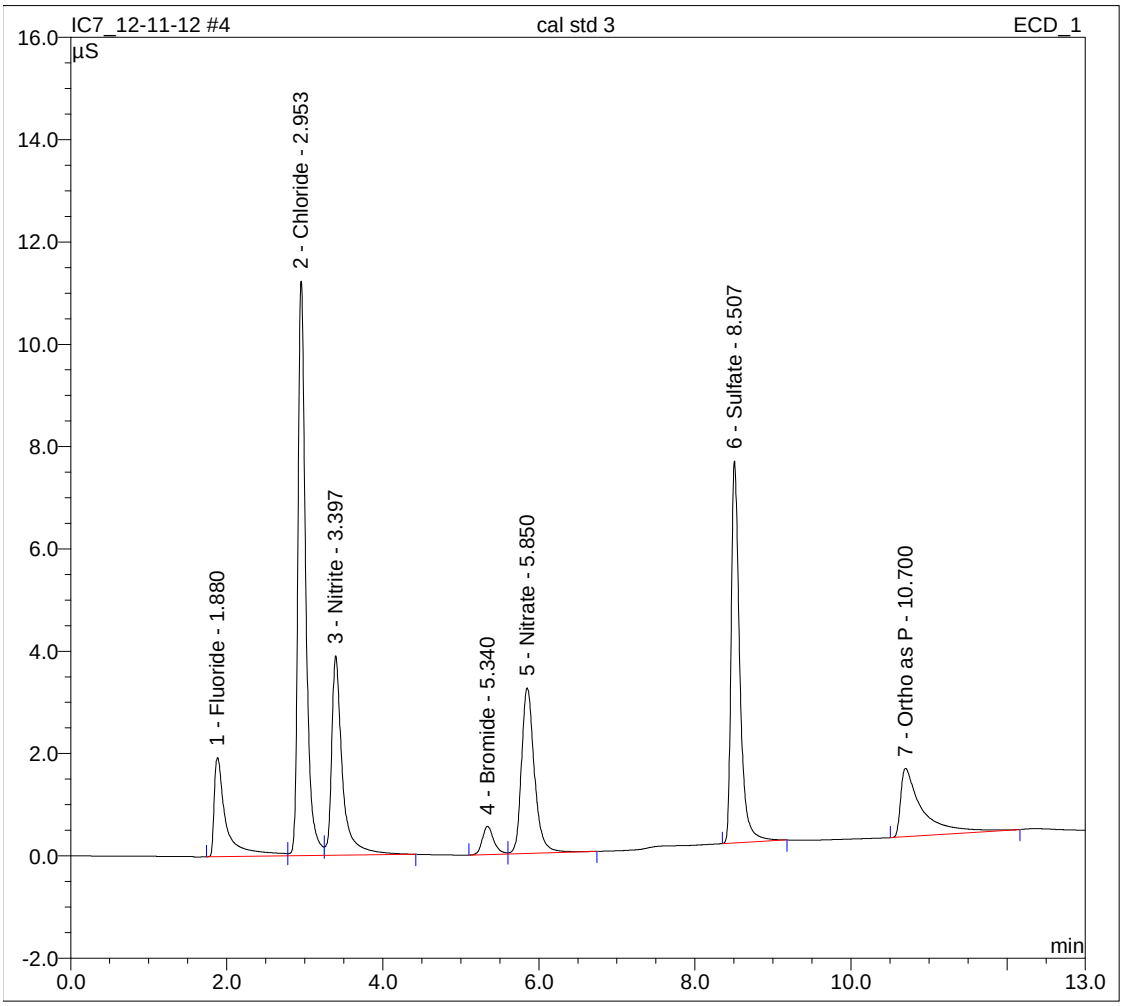
Sample Name:	**cal std 2**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 08:19**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	0.158	0.909	0.4534
2	2.95	Chloride	M	0.636	5.281	2.4608
3	3.40	Nitrite	MB	0.307	1.916	0.4977
4	5.35	Bromide	BM	0.041	0.248	0.4593
5	5.87	Nitrate	MB	0.287	1.507	0.4821
6	8.53	Sulfate	BMB	0.455	3.562	2.4401
7	10.78	Ortho as P	BMB*	0.164	0.508	0.4363
		TOTAL:		2.05	13.93	7.23



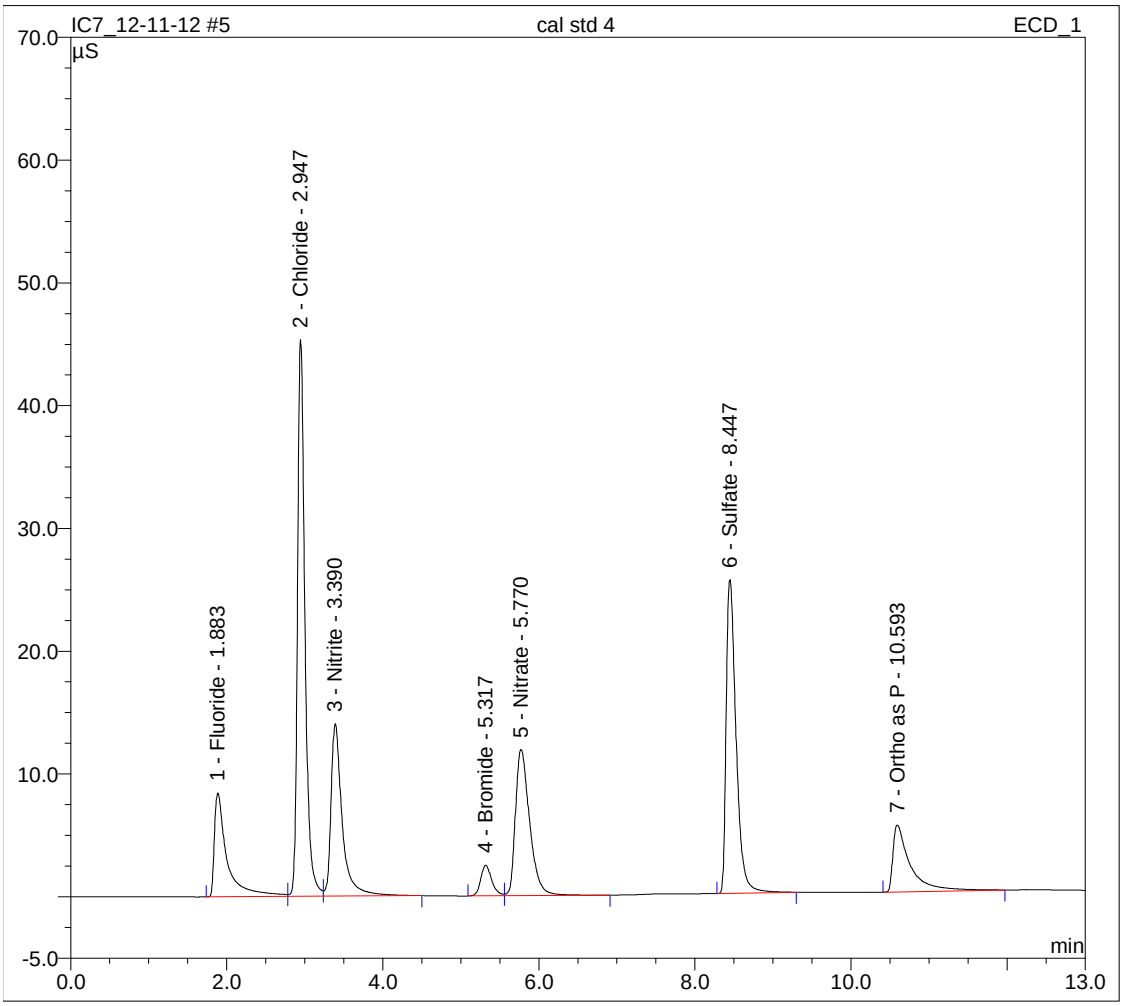
Sample Name:	**cal std 3**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 08:35**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	0.346	1.936	0.8984
2	2.95	Chloride	M	1.307	11.233	5.1204
3	3.40	Nitrite	MB	0.625	3.901	1.0538
4	5.34	Bromide	BM	0.094	0.553	0.9526
5	5.85	Nitrate	MB	0.619	3.231	1.0002
6	8.51	Sulfate	BMB	0.952	7.467	5.0404
7	10.70	Ortho as P	BMB	0.427	1.336	1.2438
TOTAL:				4.37	29.66	15.31



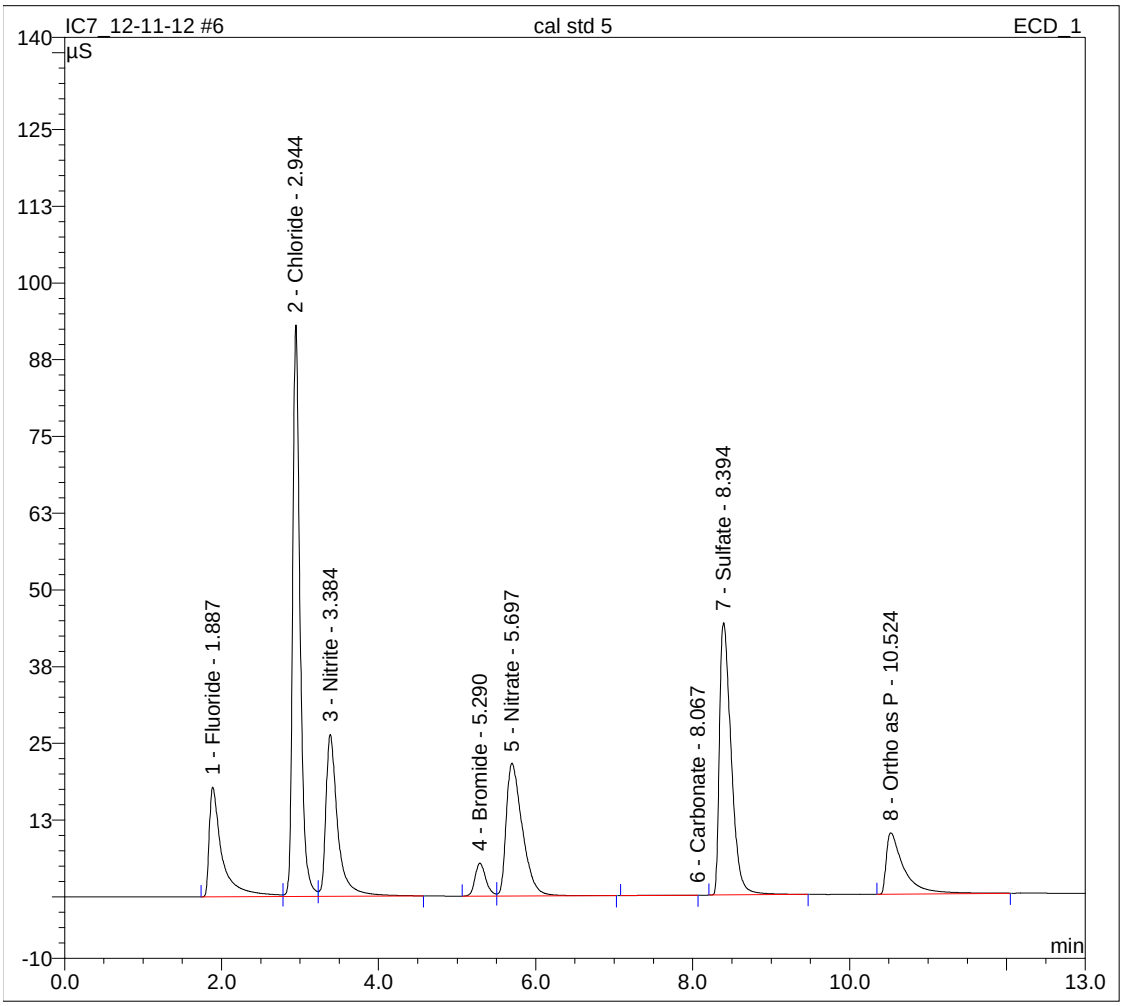
Sample Name:	**cal std 4**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 08:51**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	1.594	8.440	3.8630
2	2.95	Chloride	M	5.031	45.362	19.8634
3	3.39	Nitrite	MB	2.352	14.026	4.0781
4	5.32	Bromide	BM	0.409	2.493	3.8918
5	5.77	Nitrate	MB	2.504	11.895	3.9405
6	8.45	Sulfate	BMB	3.774	25.560	19.8028
7	10.59	Ortho as P	BMB	1.393	5.447	4.2029
		TOTAL:		17.06	113.22	59.64



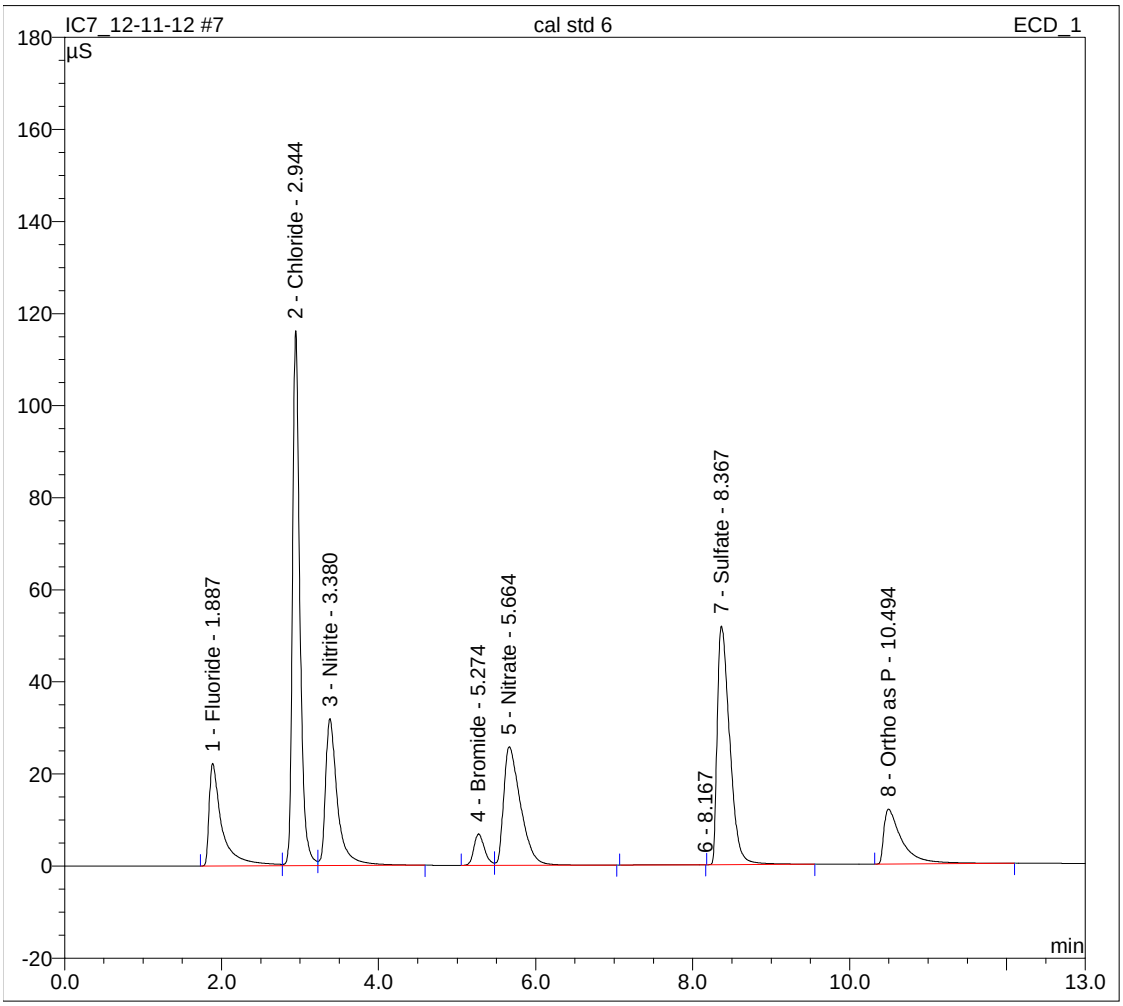
Sample Name:	**cal std 5**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 09:06**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.89	Fluoride	BM	3.390	17.854	8.1301
2	2.94	Chloride	M	10.157	93.127	40.1633
3	3.38	Nitrite	MB	4.611	26.378	8.0351
4	5.29	Bromide	BM	0.858	5.376	8.0872
5	5.70	Nitrate	MB	5.141	21.622	8.0566
6	8.07	Carbonate	BMB	0.019	0.000	n.a.
7	8.39	Sulfate	BMB	7.681	44.370	40.2503
8	10.52	Ortho as P	BMB	2.609	10.001	7.9258
		TOTAL:		34.47	218.73	120.65



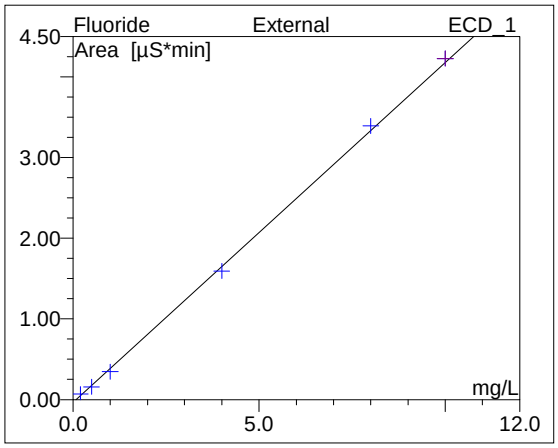
Sample Name:	**cal std 6**	*Inj. Vol.:*	**10.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 09:22**	*Run Time:*	**13.00**

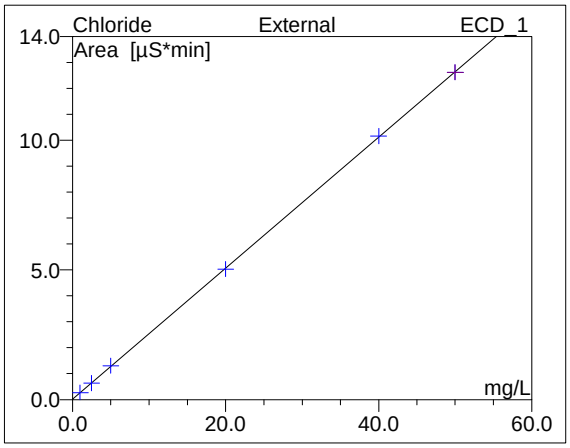
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.89	Fluoride	BM	4.226	22.249	10.1149
2	2.94	Chloride	M	12.615	116.205	49.8956
3	3.38	Nitrite	MB	5.646	31.879	9.8468
4	5.27	Bromide	BM	1.072	6.829	10.0818
5	5.66	Nitrate	MB	6.394	25.713	10.0121
7	8.37	Sulfate	BMB	9.534	51.847	49.9459
8	10.49	Ortho as P	BMB	3.194	11.941	9.7172
		TOTAL:		42.68	266.66	149.61

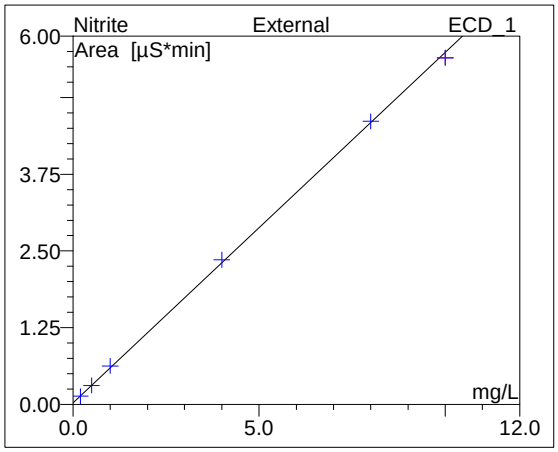


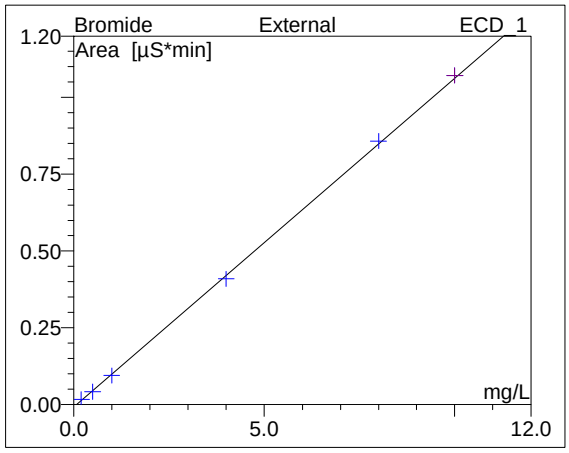
Calibration Batch Report

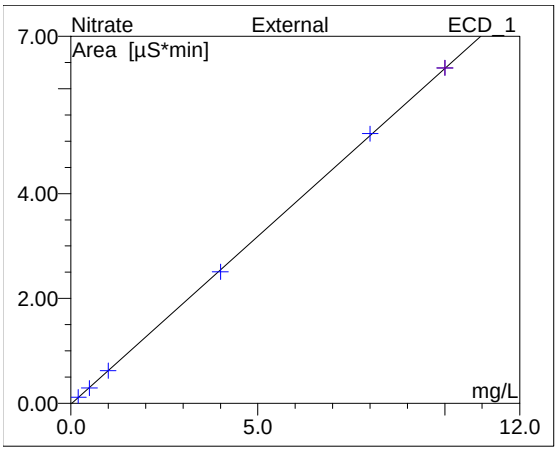
Sequence:	**IC7_12-11-12**	Inj. Vol.:	**10.0**
Program:	**as 17 gradient program 09-09-05**	Operator:	**DENPC022**
Inj. Date/Time:	**12/11/12 09:22**	Run Time:	**13.00**

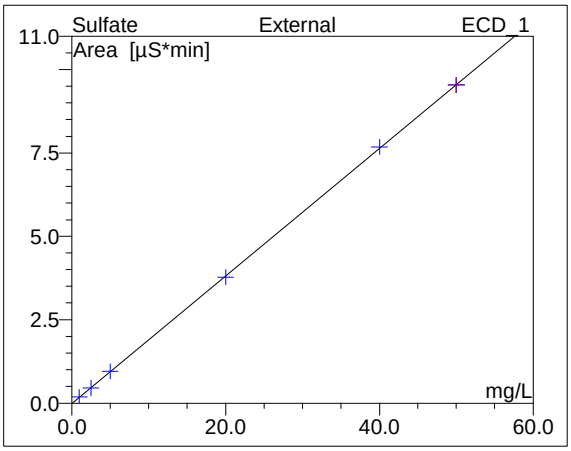




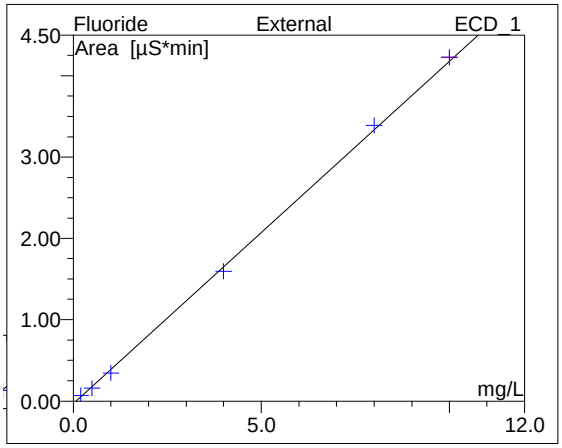








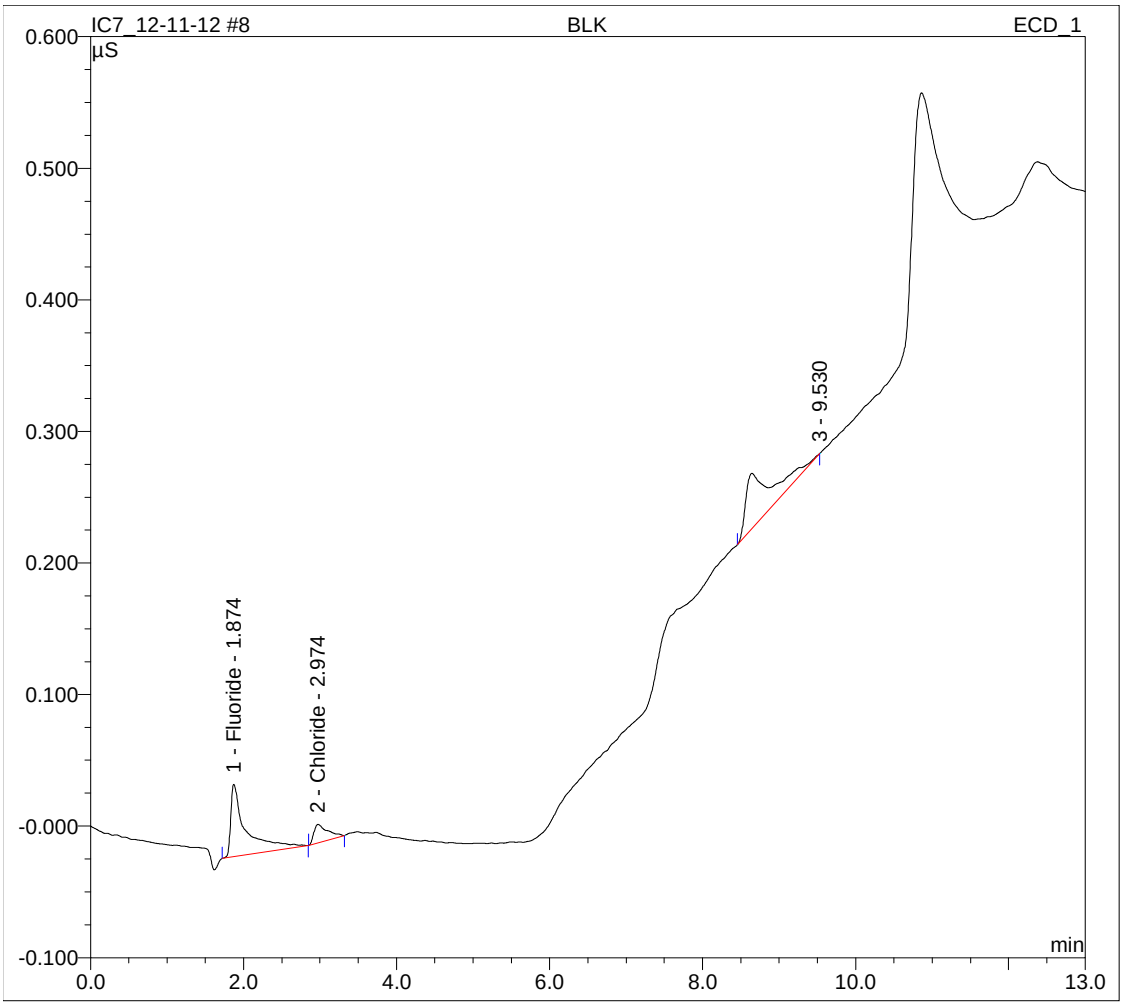
Program:	**as 17 gradient program 09-09-05**	*Operator:*	**n.a.**
Ini. Date/Time:	**12/11/12 09:22**	*Run Time:*	**13.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	1.89	Fluoride	XLOff	6	-0.032	0.421	0.000	99.921
2	2.94	Chloride	XLOff	6	0.014	0.253	0.000	99.997
3	3.38	Nitrite	XLOff	6	0.023	0.571	0.000	99.980
4	5.27	Bromide	XLOff	6	-0.008	0.107	0.000	99.964
5	5.66	Nitrate	XLOff	6	-0.021	0.641	0.000	99.994
7	8.37	Sulfate	XLOff	6	-0.011	0.191	0.000	99.997
8	10.49	Ortho as P	XLOff	6	0.021	0.326	0.000	99.770
AVERAGE:					-0.0021	0.3586	0.0000	99.9463

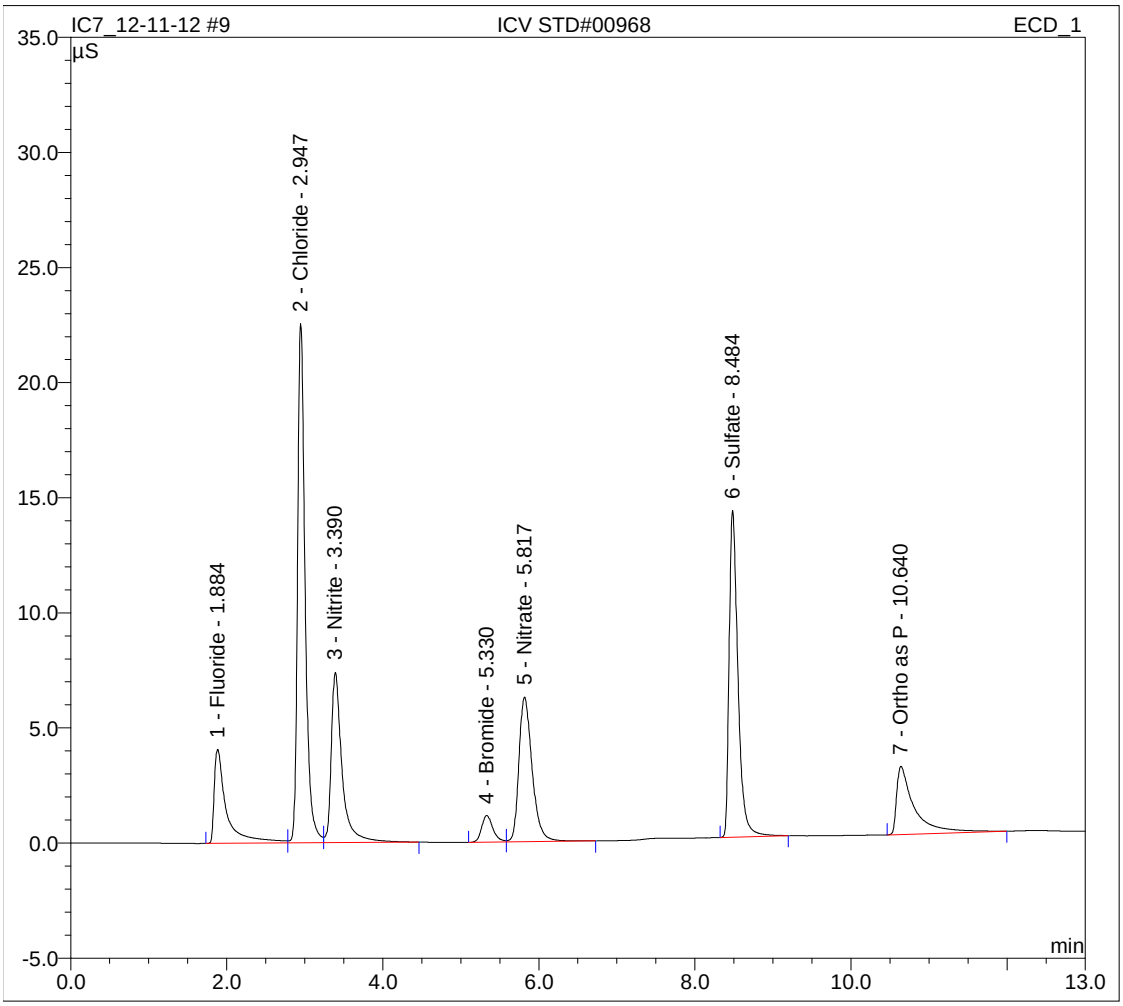
Sample Name:	**BLK**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 09:38**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.013	0.055	0.1079
2	2.97	Chloride	BMB	0.003	0.014	-0.0446
		TOTAL:		0.02	0.07	0.06



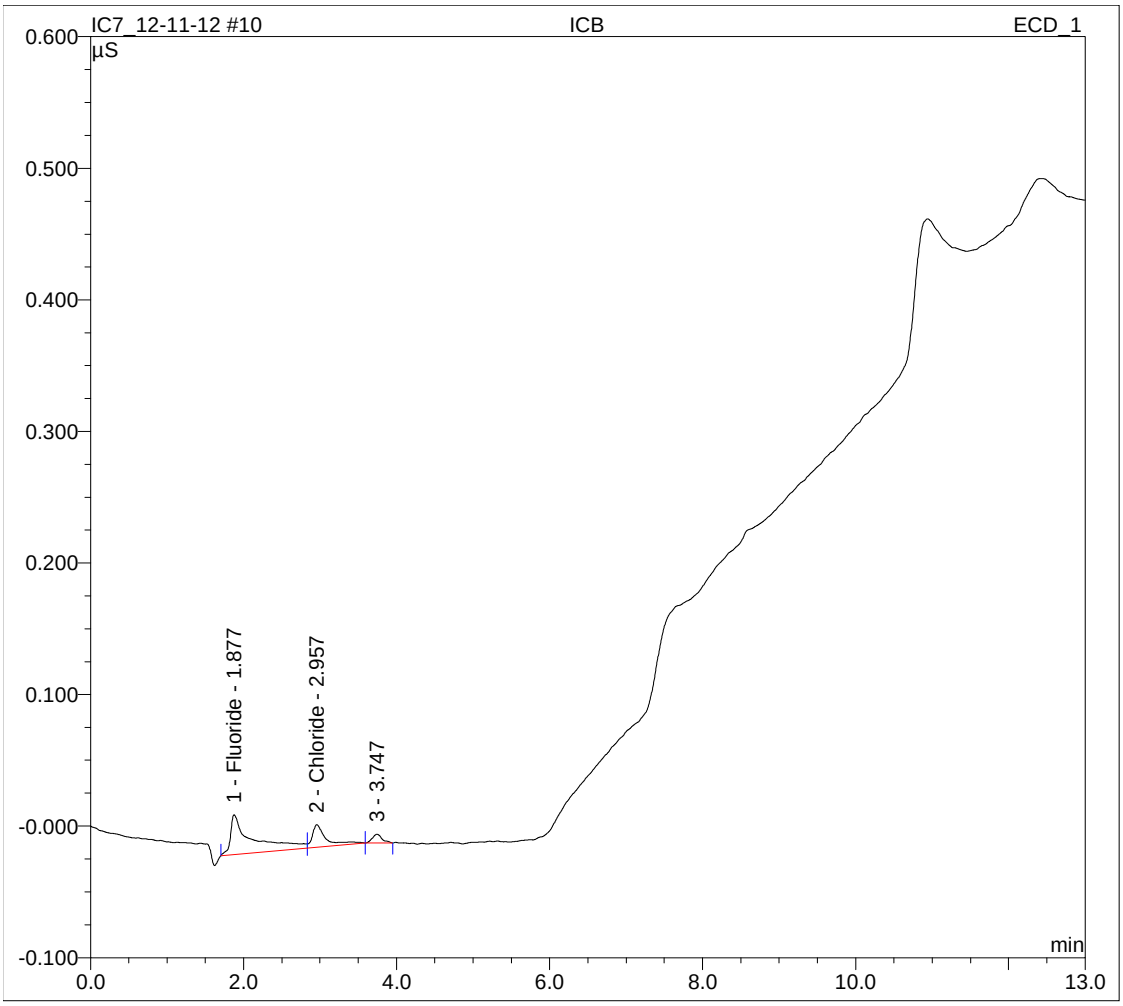
Sample Name:	**ICV STD#00968**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 09:54**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	0.744	4.076	1.8443
2	2.95	Chloride	M	2.541	22.563	10.0056
3	3.39	Nitrite	MB	1.192	7.401	2.0468
4	5.33	Bromide	BM	0.196	1.162	1.9093
5	5.82	Nitrate	MB	1.236	6.284	1.9619
6	8.48	Sulfate	BMB	1.864	14.194	9.8136
7	10.64	Ortho as P	BMB	0.774	2.956	2.3047
TOTAL:				8.55	58.63	29.89



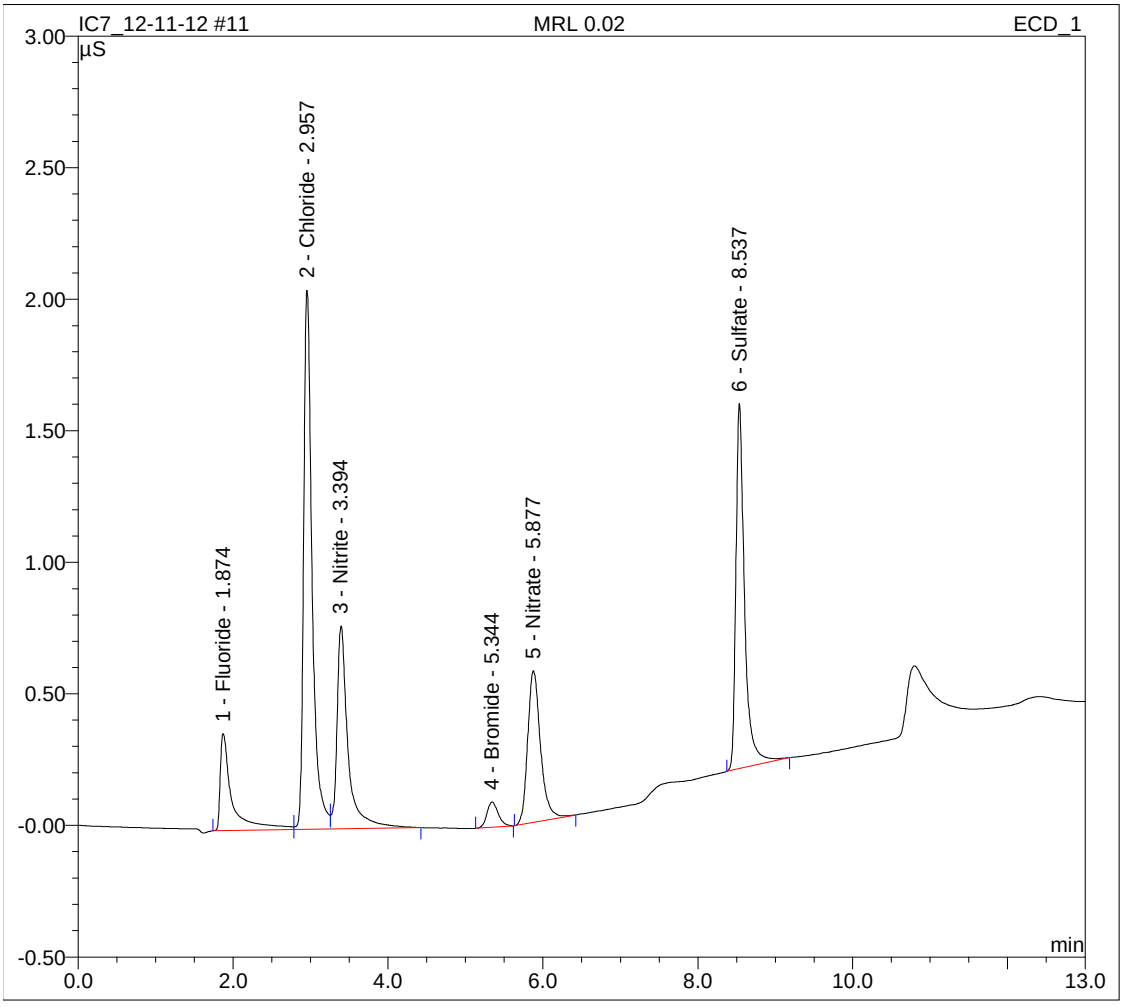
Sample Name:	**ICB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 10:10**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	0.010	0.030	0.1007
2	2.96	Chloride	Mb	0.004	0.017	-0.0421
		TOTAL:		0.01	0.05	0.06



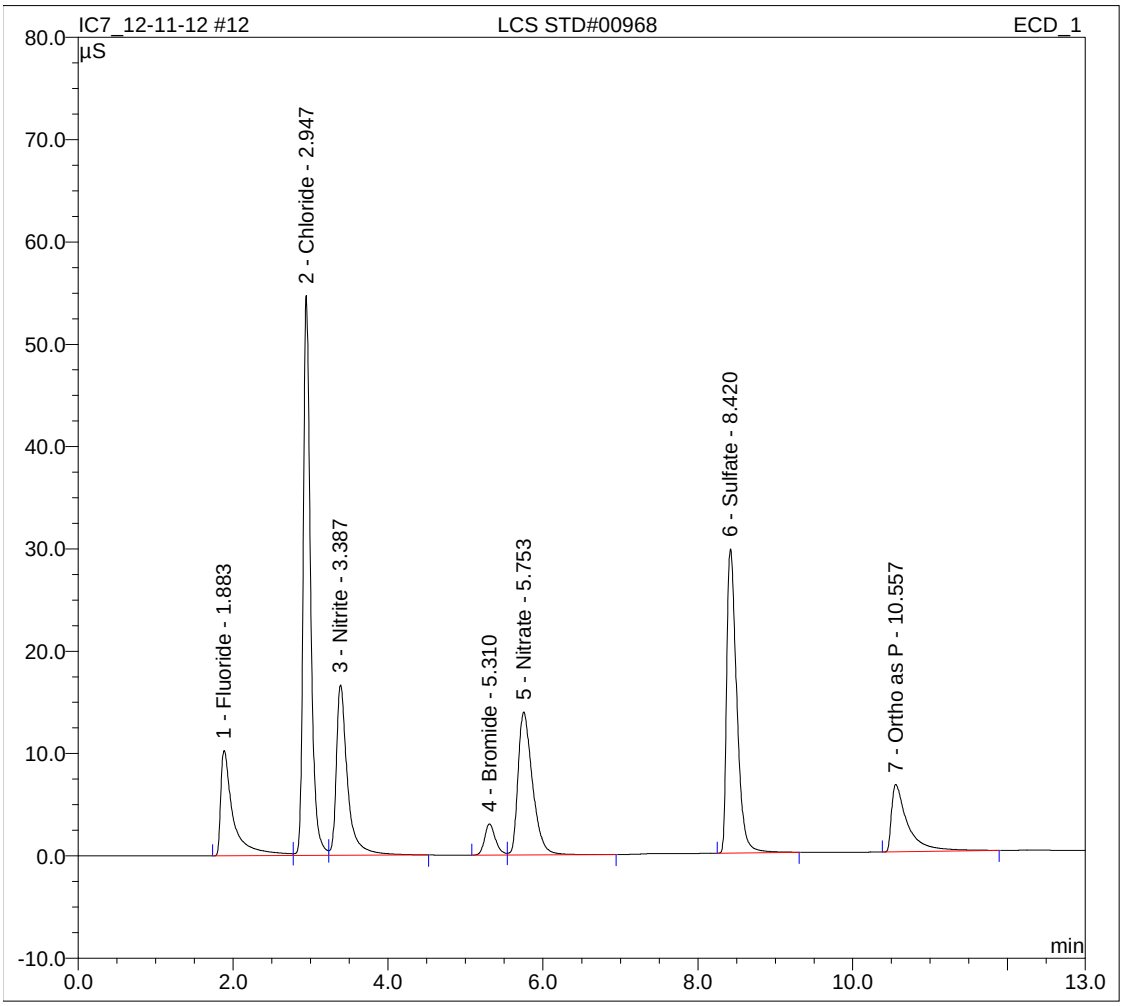
Sample Name:	**MRL 0.02**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 10:25**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BM	0.065	0.367	0.2322
2	2.96	Chloride	M	0.261	2.049	0.9759
3	3.39	Nitrite	MB	0.127	0.772	0.1830
4	5.34	Bromide	BMB	0.016	0.096	0.2272
5	5.88	Nitrate	BMB	0.111	0.577	0.2061
6	8.54	Sulfate	BMB	0.180	1.388	0.9983
		TOTAL:		0.76	5.25	2.82



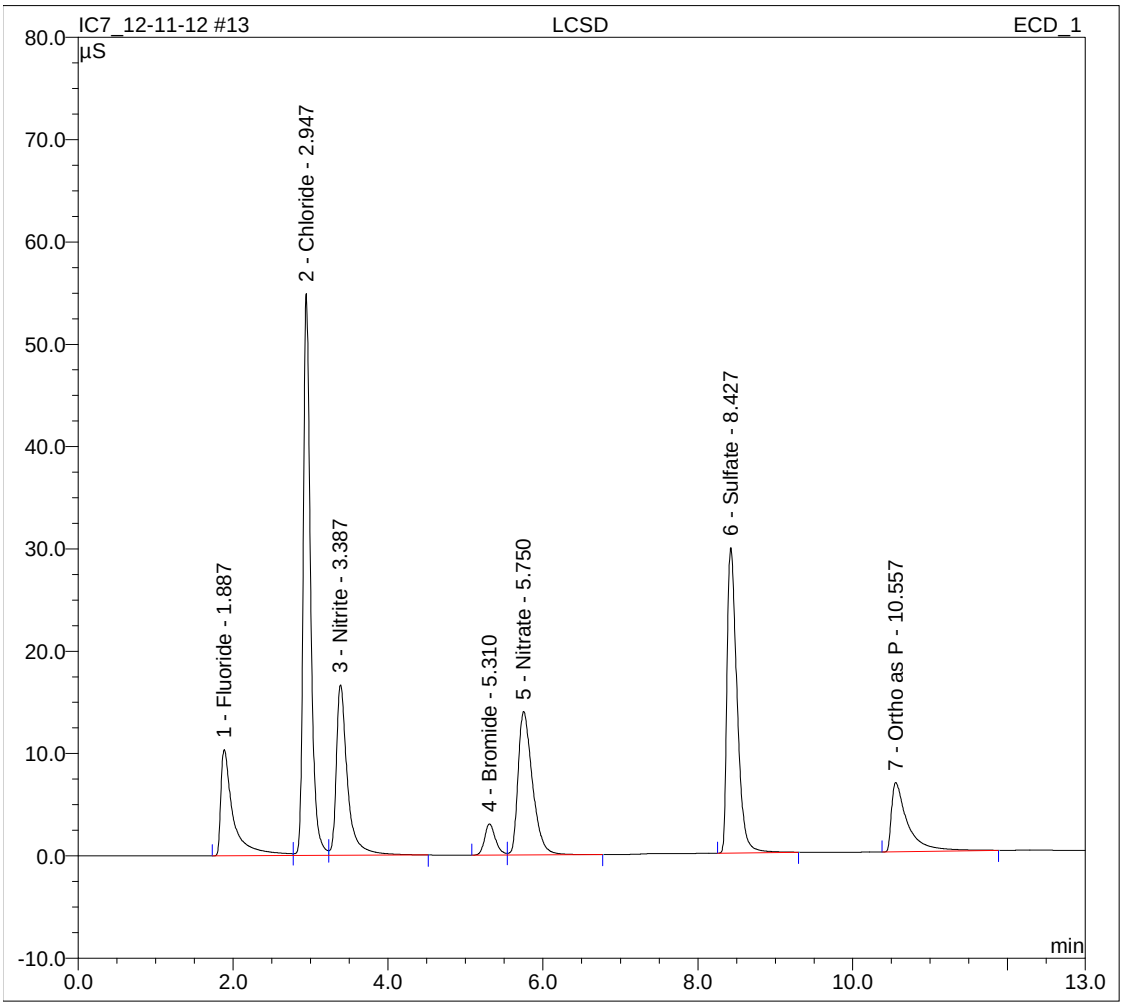
Sample Name:	**LCS STD#00968**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 10:41**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	1.937	10.289	4.6785
2	2.95	Chloride	M	6.030	54.745	23.8215
3	3.39	Nitrite	MB	2.787	16.635	4.8399
4	5.31	Bromide	BM	0.496	3.046	4.7054
5	5.75	Nitrate	MB	3.010	13.967	4.7303
6	8.42	Sulfate	BMB	4.492	29.742	23.5636
7	10.56	Ortho as P	BMB	1.596	6.593	4.8241
		TOTAL:		20.35	135.02	71.16



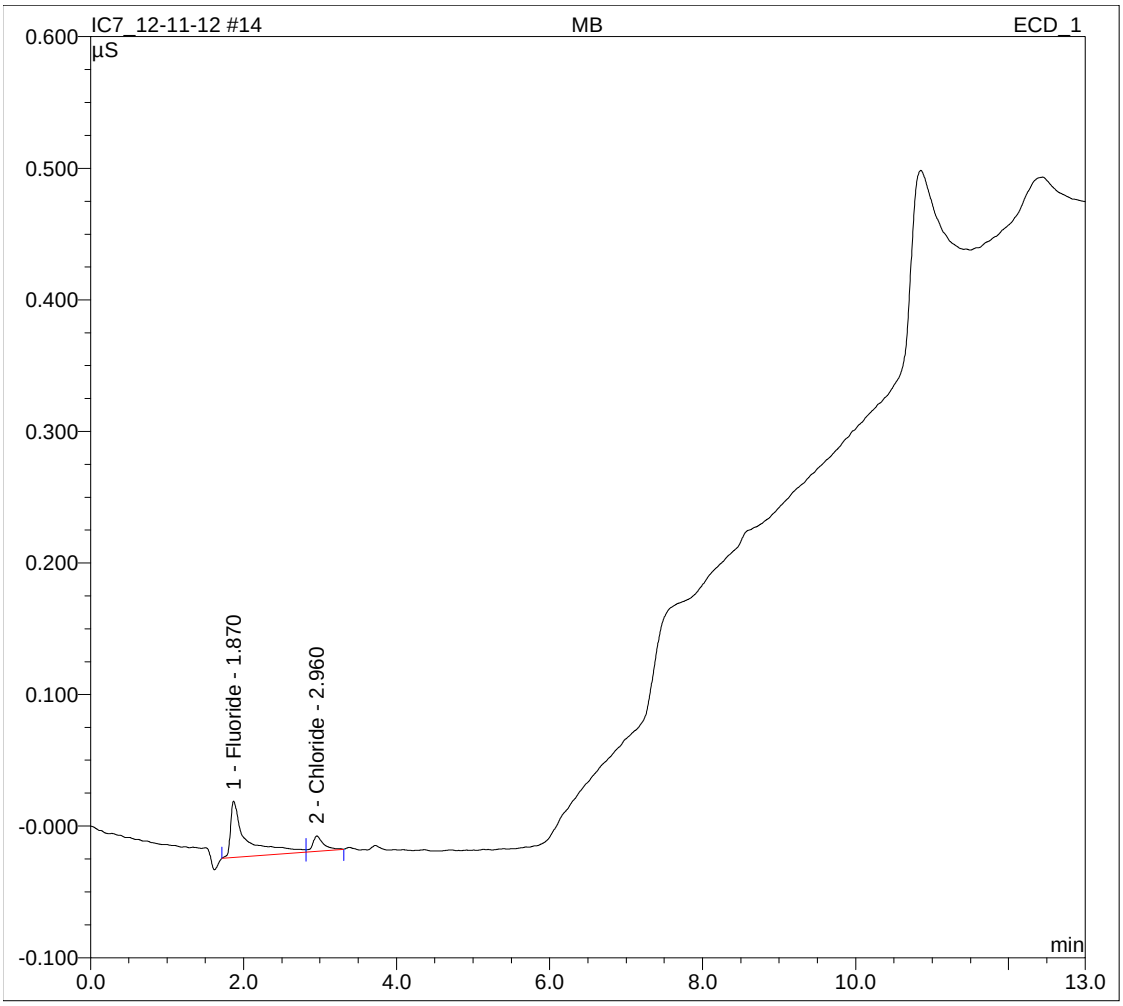
Sample Name:	**LCSD**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 10:57**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.89	Fluoride	BM	1.945	10.371	4.6970
2	2.95	Chloride	M	6.033	54.926	23.8326
3	3.39	Nitrite	MB	2.787	16.651	4.8411
4	5.31	Bromide	BM	0.497	3.046	4.7141
5	5.75	Nitrate	MB	3.010	14.021	4.7302
6	8.43	Sulfate	BMB	4.498	29.859	23.5934
7	10.56	Ortho as P	BMB	1.634	6.778	4.9401
TOTAL:				20.40	135.65	71.35



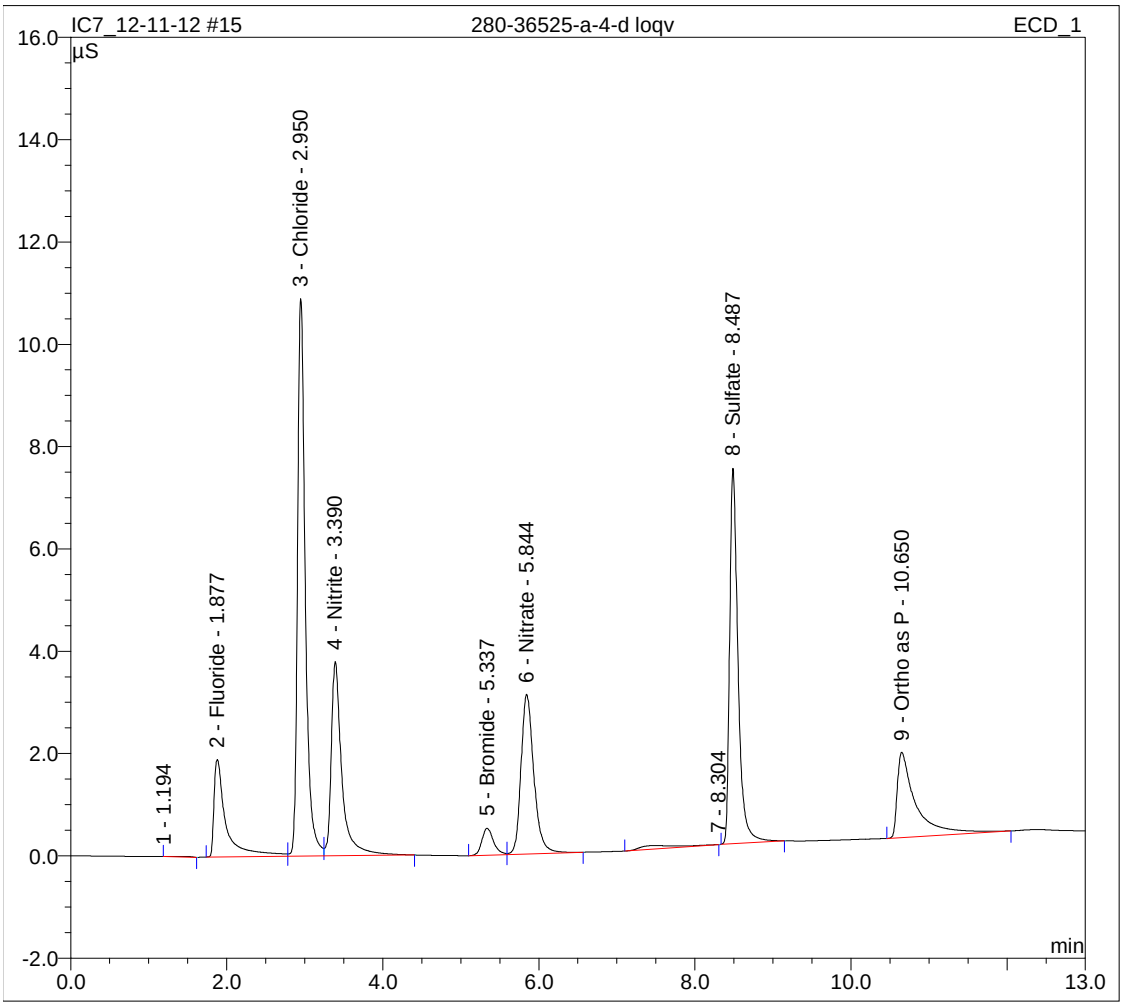
Sample Name:	**MB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 11:13**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BM	0.010	0.043	0.1017
2	2.96	Chloride	MB	0.002	0.012	-0.0483
		TOTAL:		0.01	0.05	0.05



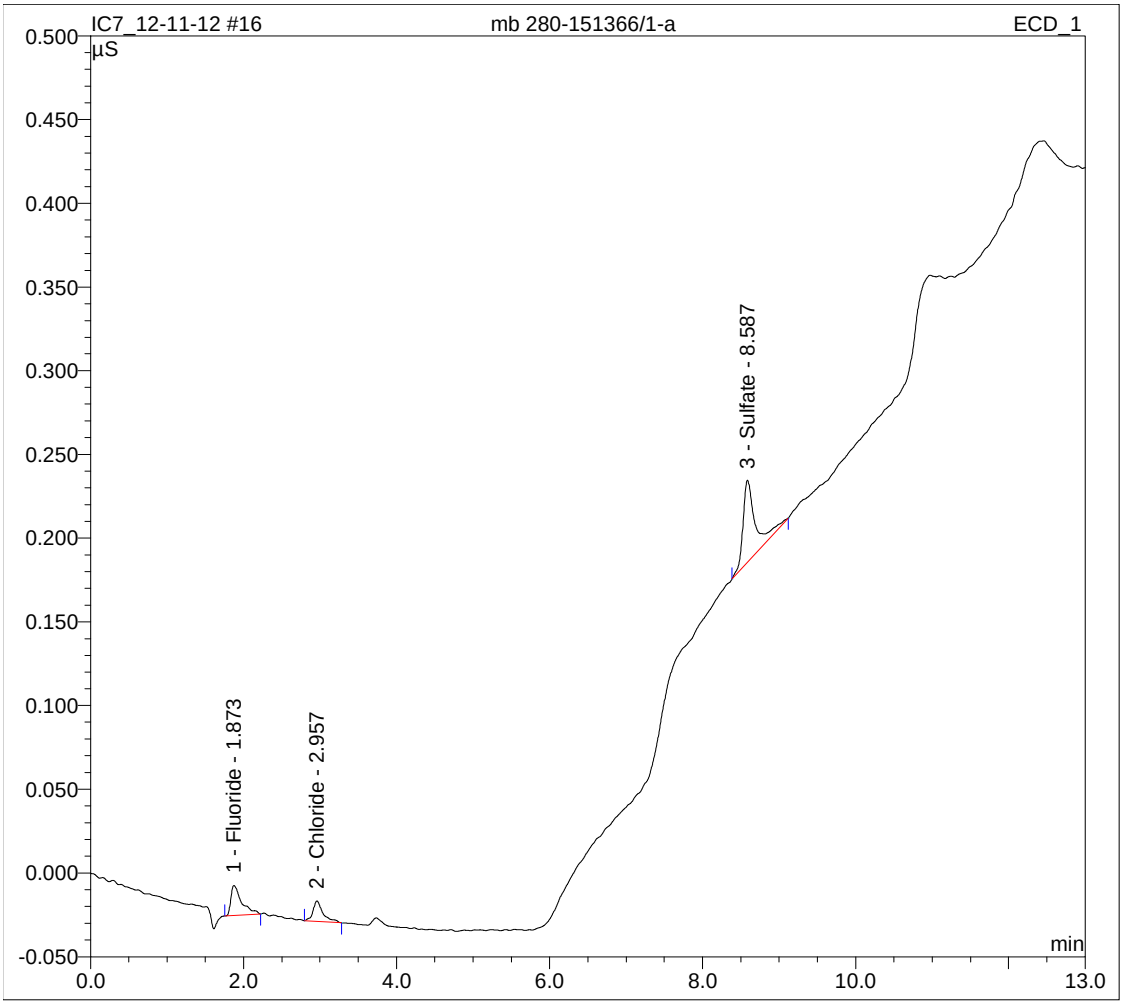
Sample Name:	**280-36525-a-4-d loqv**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 11:57**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.88	Fluoride	BM	0.340	1.899	0.8851
3	2.95	Chloride	M	1.259	10.897	4.9293
4	3.39	Nitrite	MB	0.599	3.797	1.0092
5	5.34	Bromide	BM	0.090	0.525	0.9187
6	5.84	Nitrate	MB	0.594	3.116	0.9597
8	8.49	Sulfate	BMB	0.915	7.340	4.8466
9	10.65	Ortho as P	BMB	0.458	1.667	1.3383
		TOTAL:		4.26	29.24	14.89



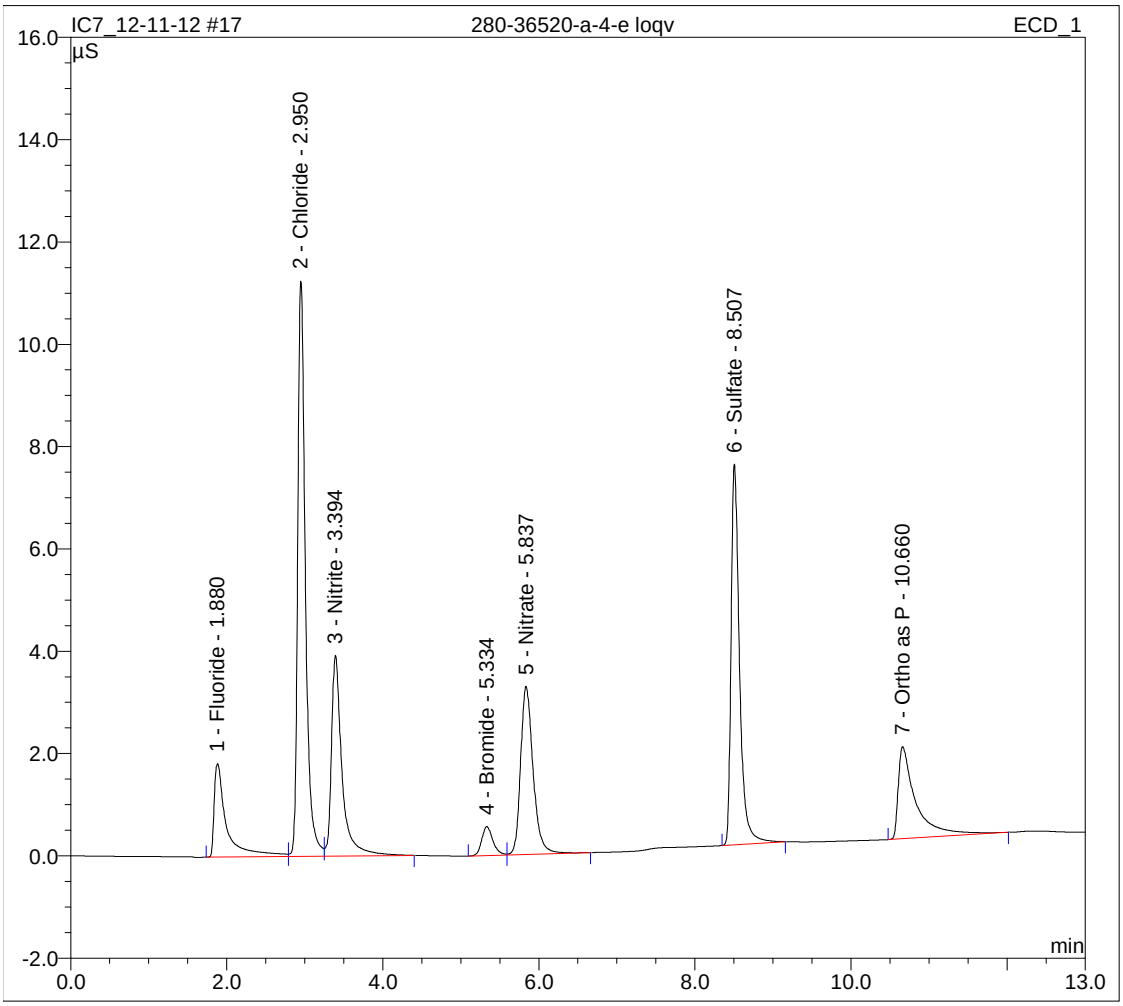
Sample Name:	**mb 280-151366/1-a**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 14:18**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.003	0.018	0.0840
2	2.96	Chloride	BMB	0.002	0.012	-0.0486
3	8.59	Sulfate	BMB	0.009	0.049	0.1040
TOTAL:				0.01	0.08	0.14



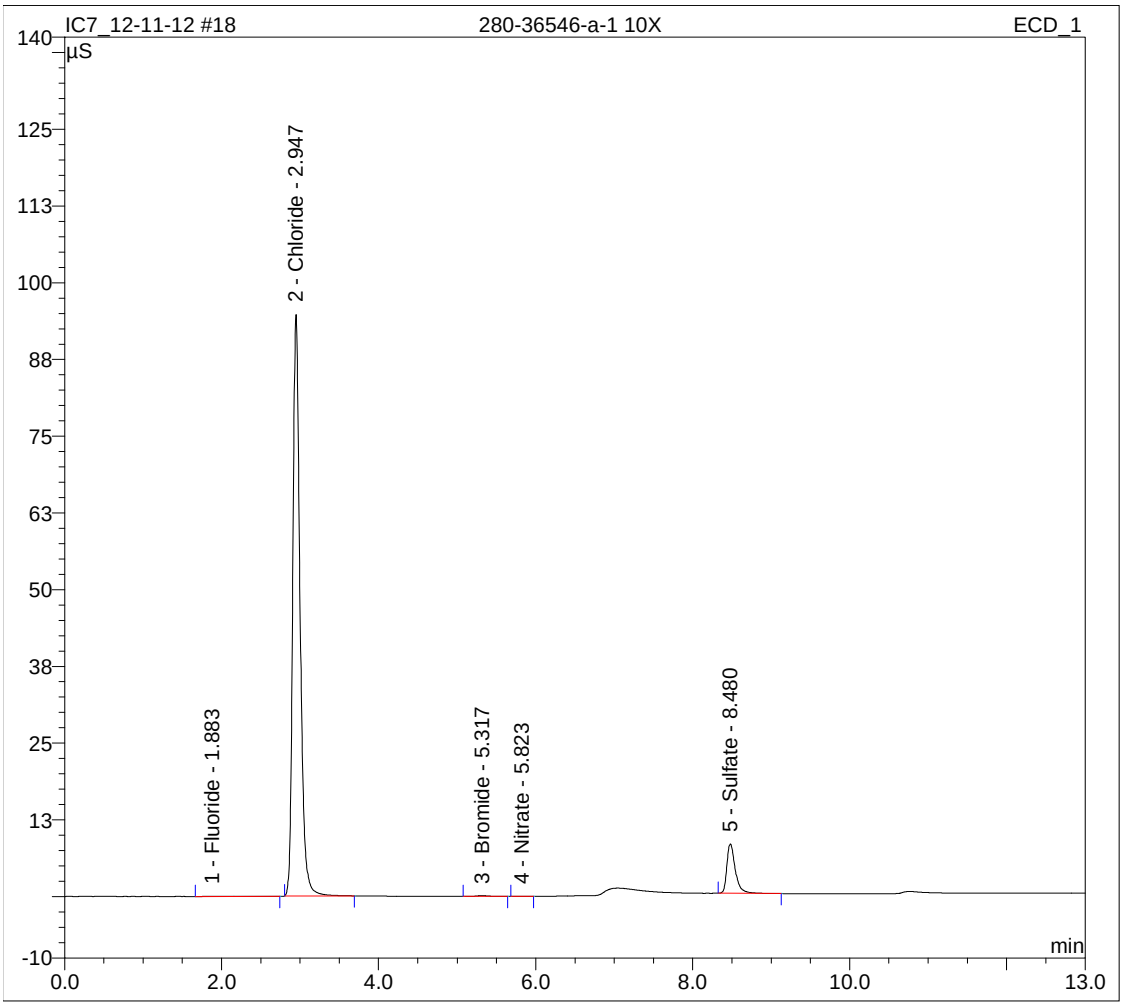
Sample Name:	**280-36520-a-4-e loqv**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 14:34**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	0.336	1.824	0.8744
2	2.95	Chloride	M	1.287	11.244	5.0401
3	3.39	Nitrite	MB	0.617	3.922	1.0409
4	5.33	Bromide	BM	0.094	0.566	0.9516
5	5.84	Nitrate	MB	0.609	3.283	0.9837
6	8.51	Sulfate	BMB	0.932	7.438	4.9371
7	10.66	Ortho as P	BMB	0.472	1.801	1.3793
TOTAL:				4.35	30.08	15.21



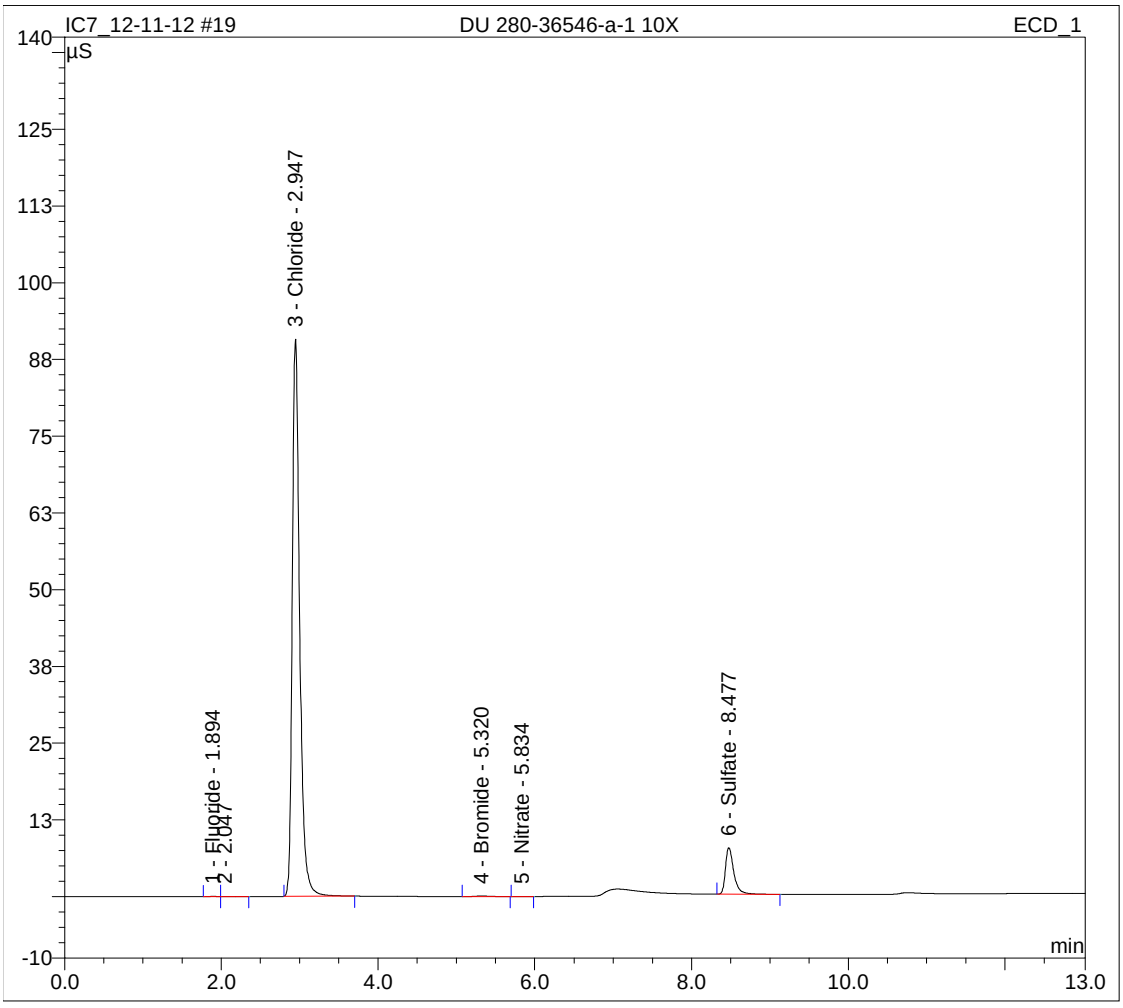
Sample Name:	**280-36546-a-1 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 17:26**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BMB	0.019	0.059	1.2115
2	2.95	Chloride	BMB	10.181	94.741	402.5728
3	5.32	Bromide	BMB	0.018	0.106	2.4019
4	5.82	Nitrate	BMB	0.001	0.009	0.3556
5	8.48	Sulfate	BMB	1.003	8.042	53.0820
		TOTAL:		11.22	102.96	459.62



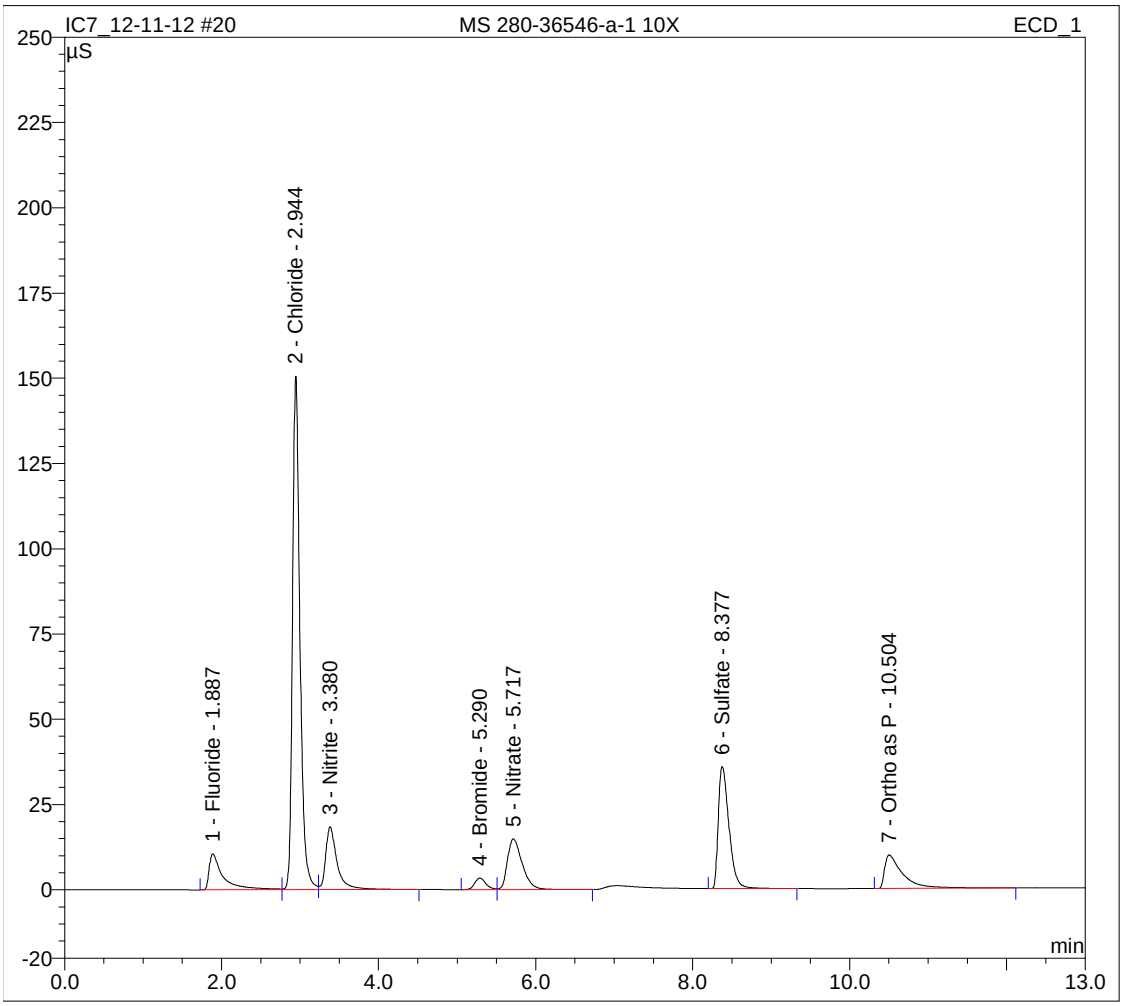
Sample Name:	**DU 280-36546-a-1 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 17:42**	*Run Time:*	**13.02**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.89	Fluoride	BMb	0.002	0.021	0.8232
3	2.95	Chloride	BMB	9.932	90.765	392.7034
4	5.32	Bromide	BMB	0.017	0.098	2.3739
5	5.83	Nitrate	BMB	0.001	0.007	0.3502
6	8.48	Sulfate	BMB	0.938	7.553	49.6662
		TOTAL:		10.89	98.44	445.92



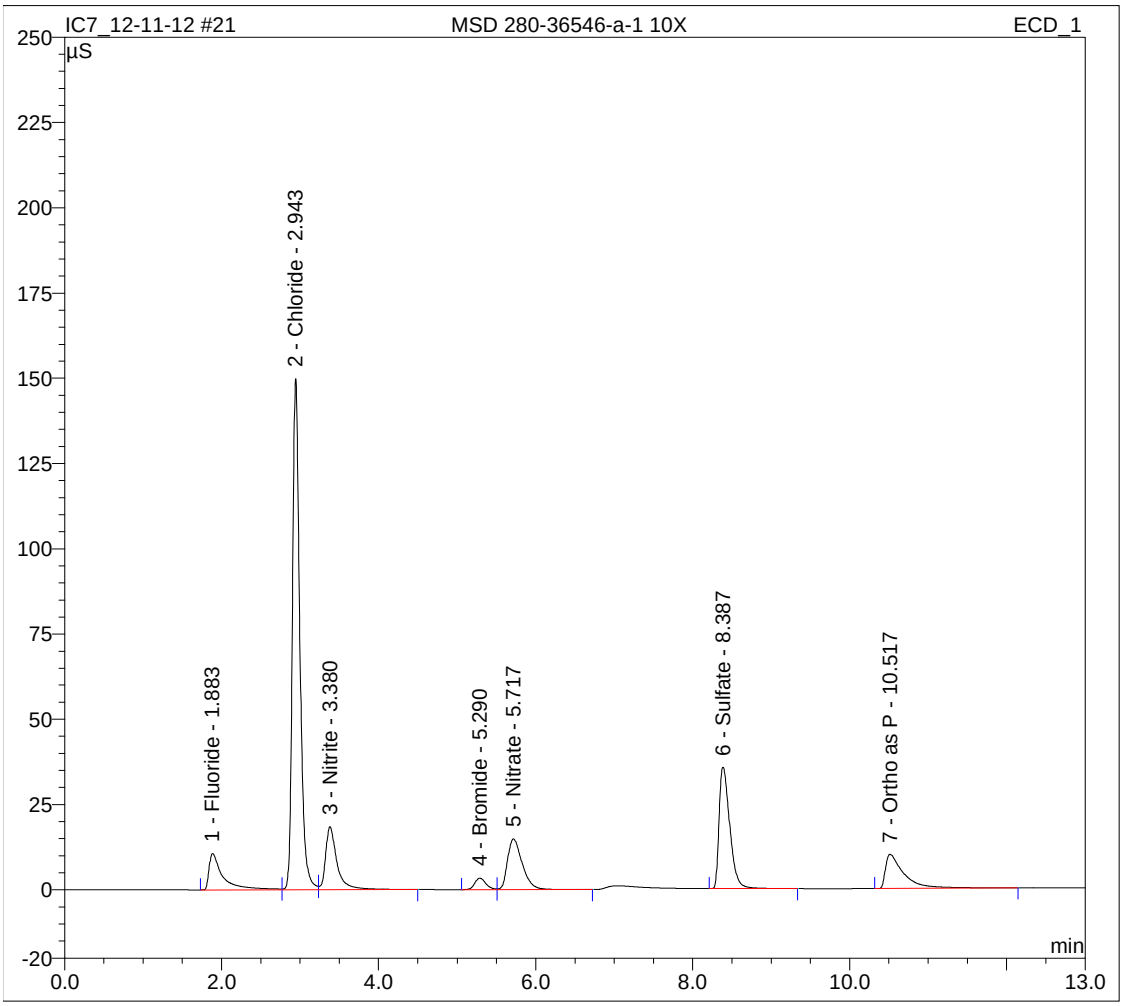
Sample Name:	**MS 280-36546-a-1 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 17:58**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.89	Fluoride	BM	2.196	10.581	52.9311
2	2.94	Chloride	M	16.443	150.601	650.5019
3	3.38	Nitrite	MB	3.120	18.436	54.2413
4	5.29	Bromide	BM	0.557	3.394	52.7867
5	5.72	Nitrate	MB	3.232	14.889	50.7641
6	8.38	Sulfate	BMB	5.625	35.698	294.8991
7	10.50	Ortho as P	BMB	2.644	9.829	80.3329
		TOTAL:		33.82	243.43	1236.46



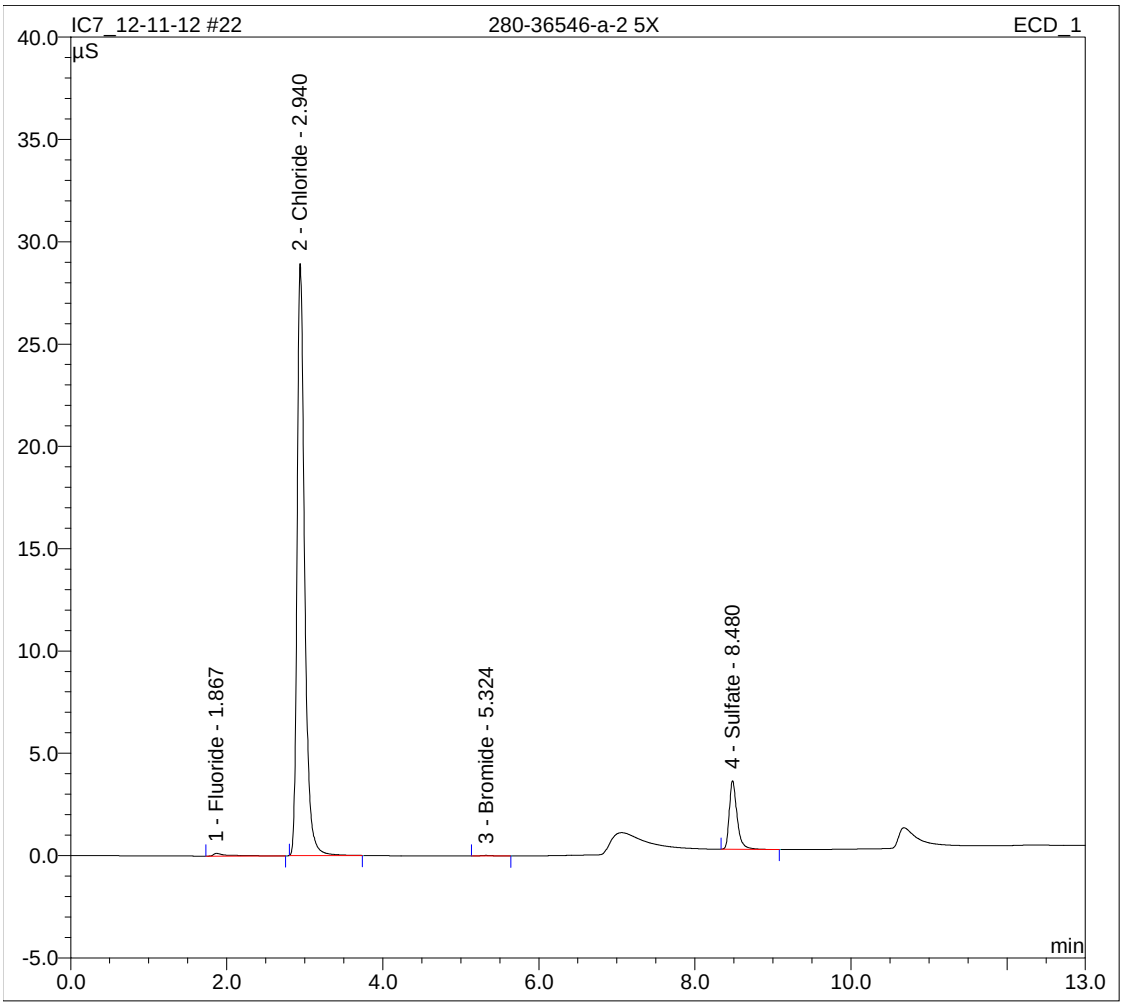
Sample Name:	**MSD 280-36546-a-1 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 18:14**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	2.189	10.643	52.7635
2	2.94	Chloride	M	16.344	149.833	646.5944
3	3.38	Nitrite	MB	3.113	18.472	54.1221
4	5.29	Bromide	BM	0.557	3.378	52.7229
5	5.72	Nitrate	MB	3.229	14.872	50.7214
6	8.39	Sulfate	BMB	5.600	35.563	293.6216
7	10.52	Ortho as P	BMB	2.728	10.028	82.9165
		TOTAL:		33.76	242.79	1233.46



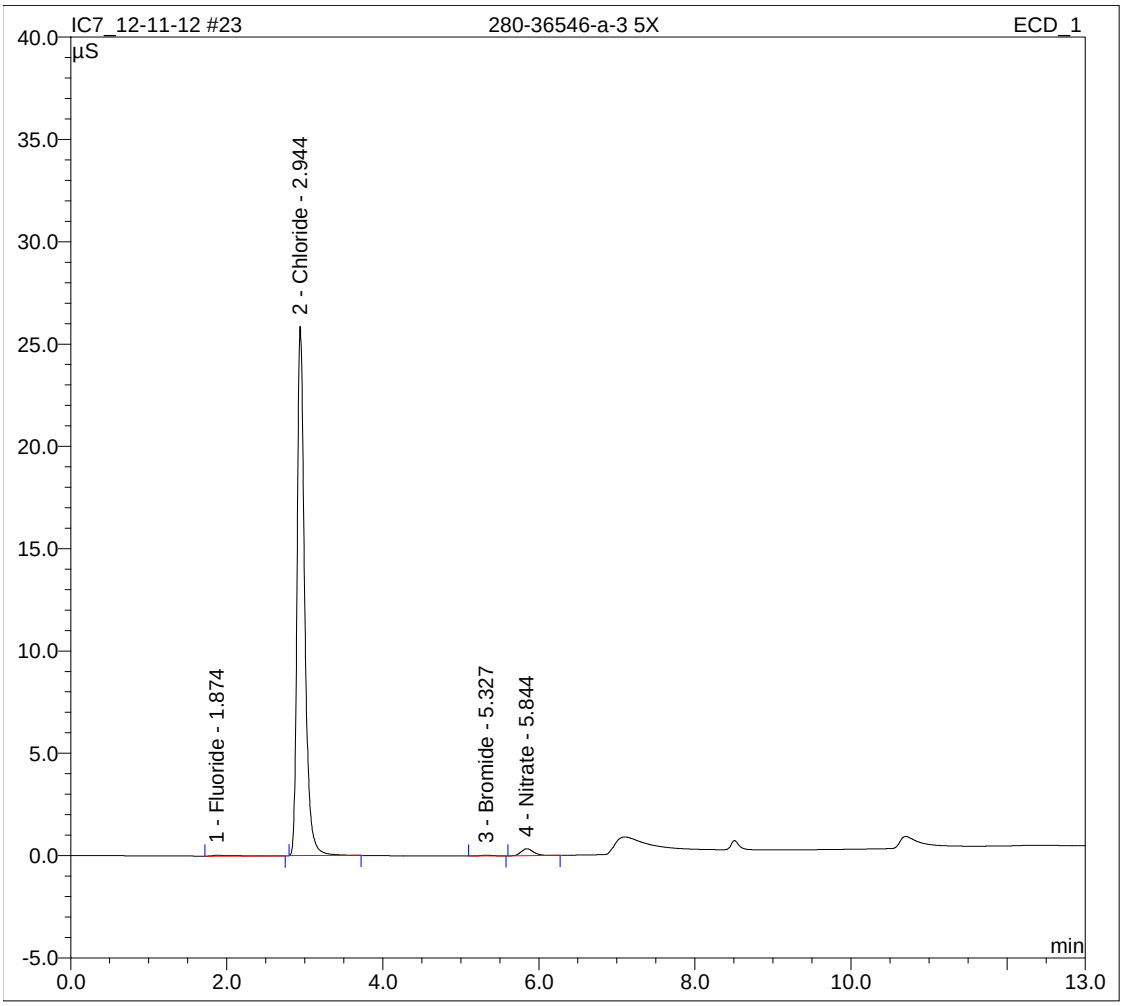
Sample Name:	**280-36546-a-2 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 18:30**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.028	0.128	0.7169
2	2.94	Chloride	BMB	3.226	28.933	63.5840
3	5.32	Bromide	BMB	0.005	0.030	0.6240
4	8.48	Sulfate	BMB	0.387	3.356	10.4291
TOTAL:				3.65	32.45	75.35



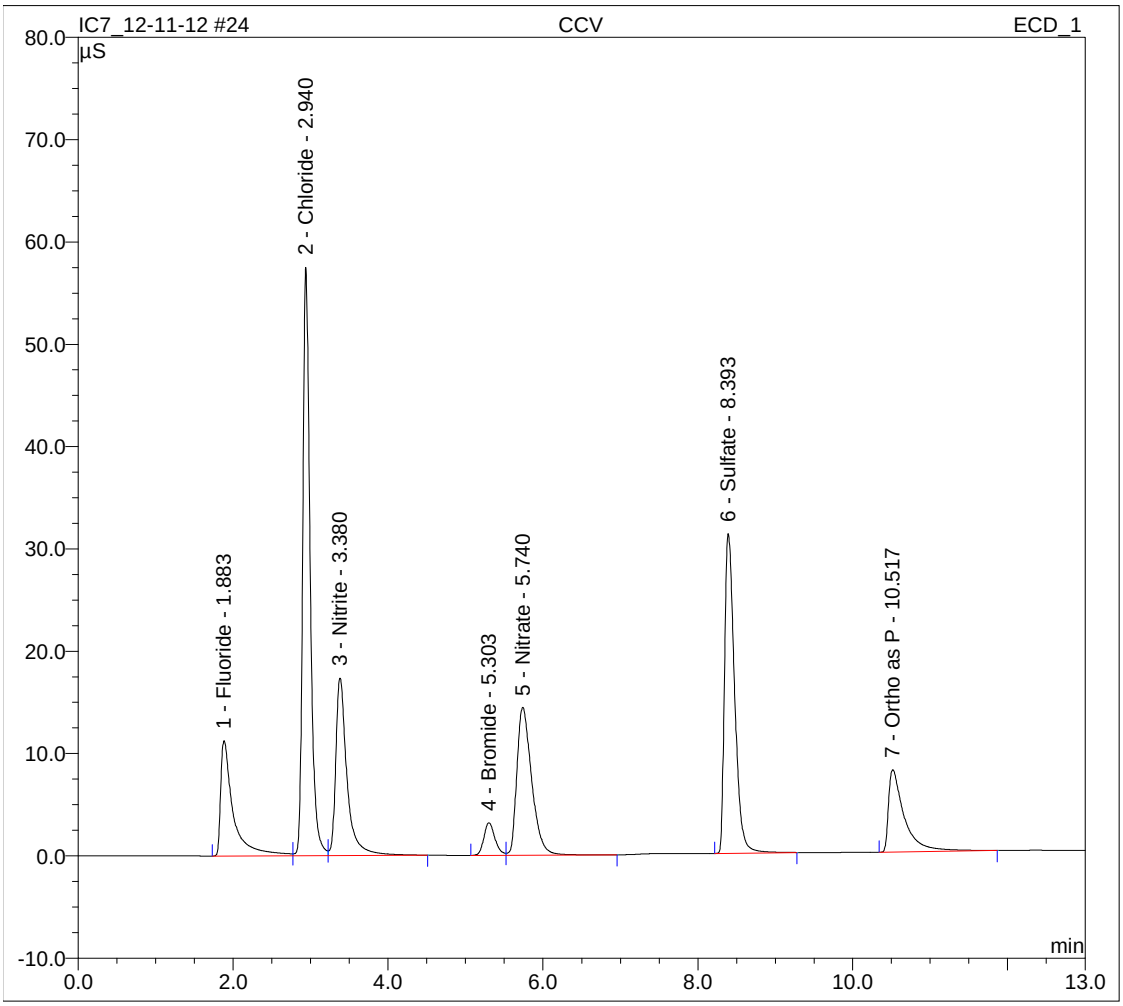
Sample Name:	**280-36546-a-3 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 18:45**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.013	0.046	0.5390
2	2.94	Chloride	BMB	2.904	25.875	57.2214
3	5.33	Bromide	BMB	0.006	0.036	0.6624
4	5.84	Nitrate	BMB	0.064	0.340	0.6642
TOTAL:				2.99	26.30	59.09



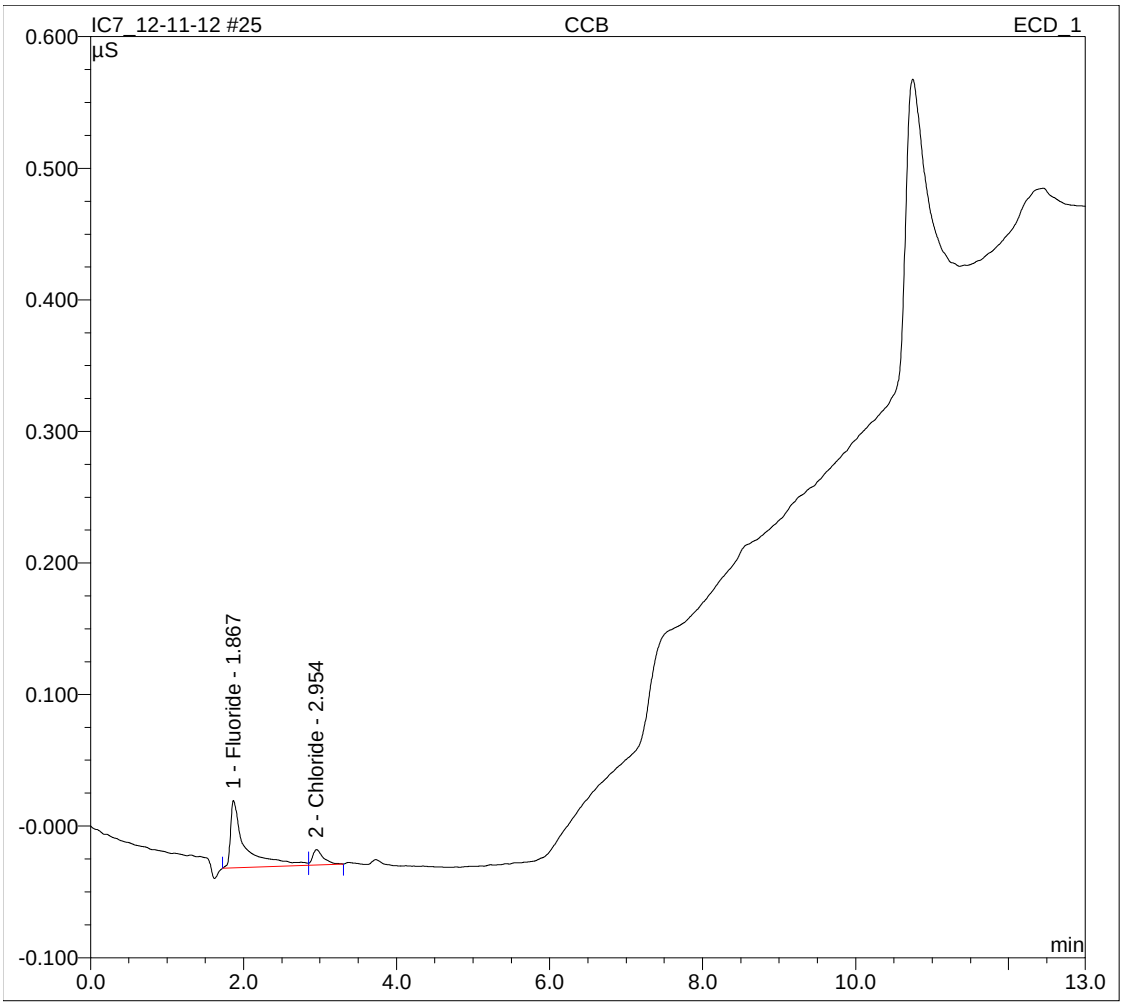
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 19:01**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	2.116	11.258	5.1024
2	2.94	Chloride	M	6.388	57.514	25.2395
3	3.38	Nitrite	MB	2.917	17.355	5.0677
4	5.30	Bromide	BM	0.528	3.173	5.0081
5	5.74	Nitrate	MB	3.188	14.450	5.0082
6	8.39	Sulfate	BMB	4.710	31.240	24.7046
7	10.52	Ortho as P	BMB	1.902	8.048	5.7620
		TOTAL:		21.75	143.04	75.89



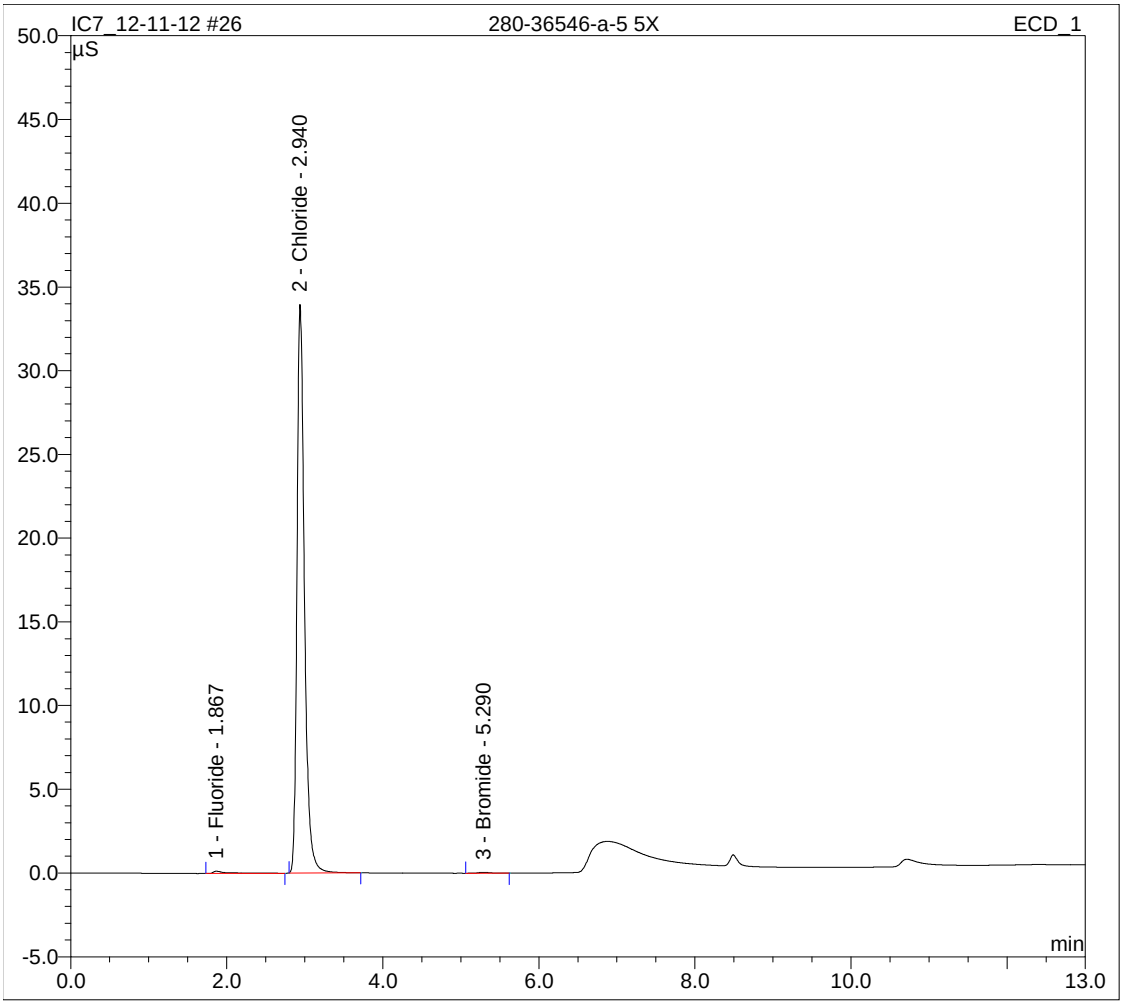
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 19:17**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BM	0.011	0.051	0.1043
2	2.95	Chloride	MB	0.002	0.012	-0.0486
		TOTAL:		0.01	0.06	0.06



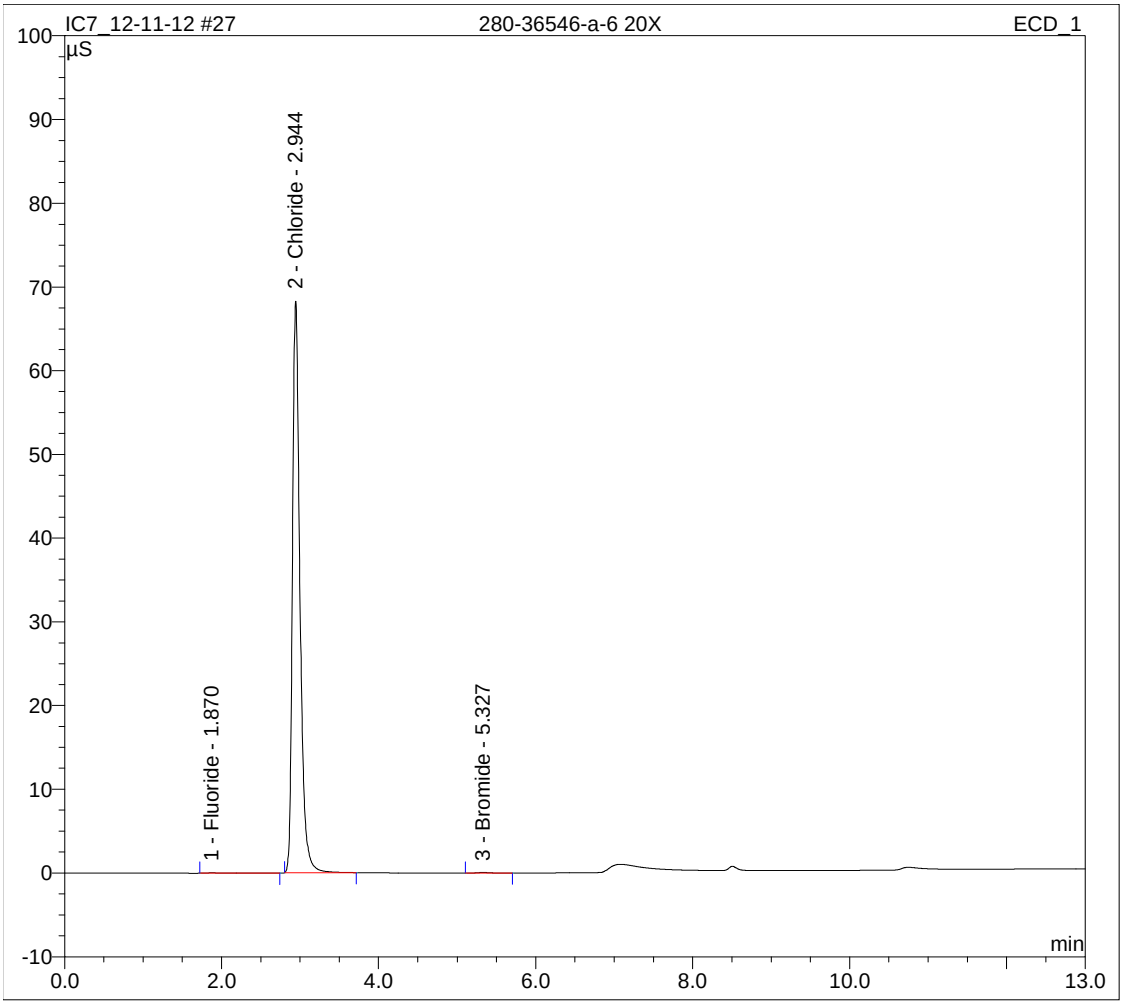
Sample Name:	**280-36546-a-5 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 19:33**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.028	0.131	0.7124
2	2.94	Chloride	BMB	3.762	33.973	74.2047
3	5.29	Bromide	BMB	0.009	0.052	0.8162
TOTAL:				3.80	34.16	75.73



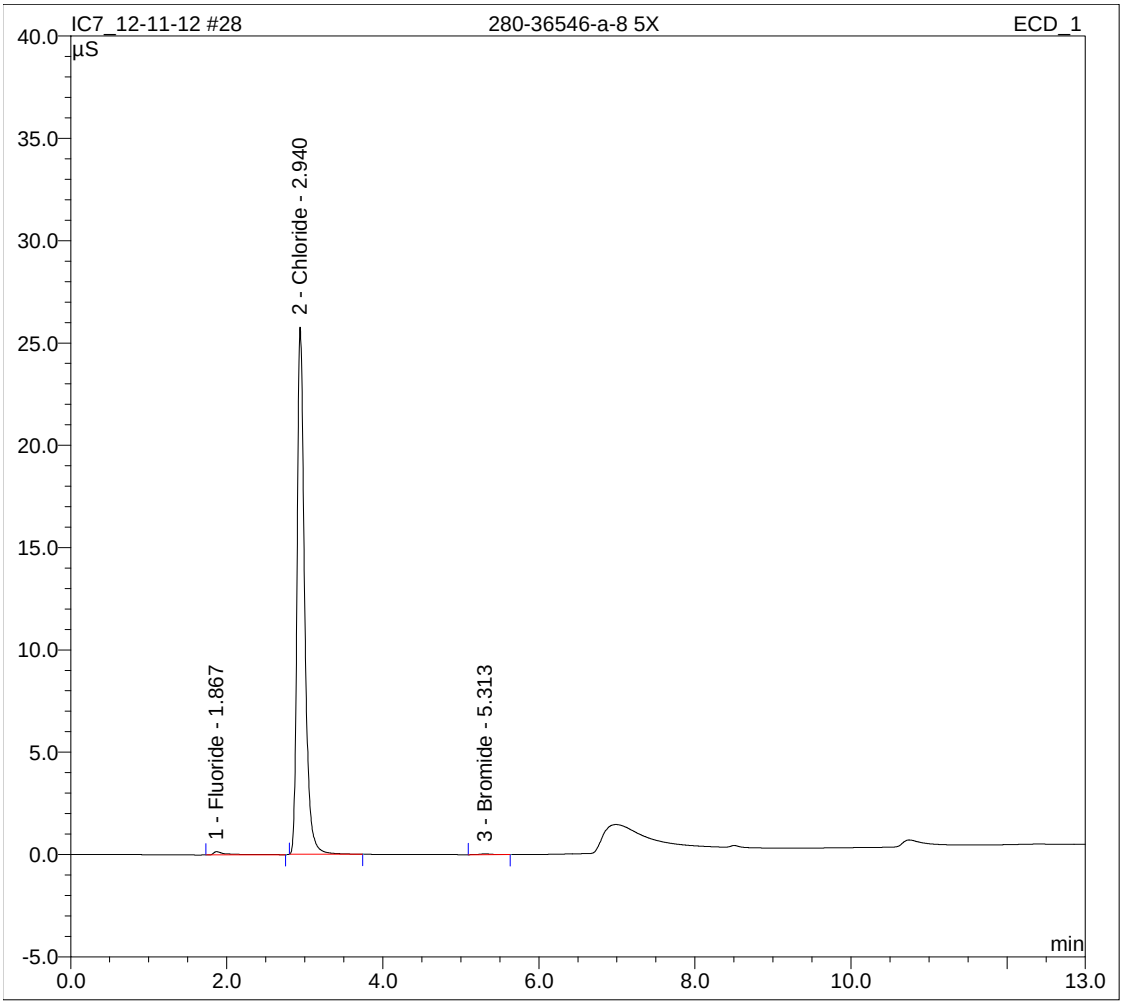
Sample Name:	**280-36546-a-6 20X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**20.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 19:49**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.012	0.051	2.0878
2	2.94	Chloride	BMB	7.543	68.299	596.2259
3	5.33	Bromide	BMB	0.013	0.074	4.0098
TOTAL:				7.57	68.42	602.32



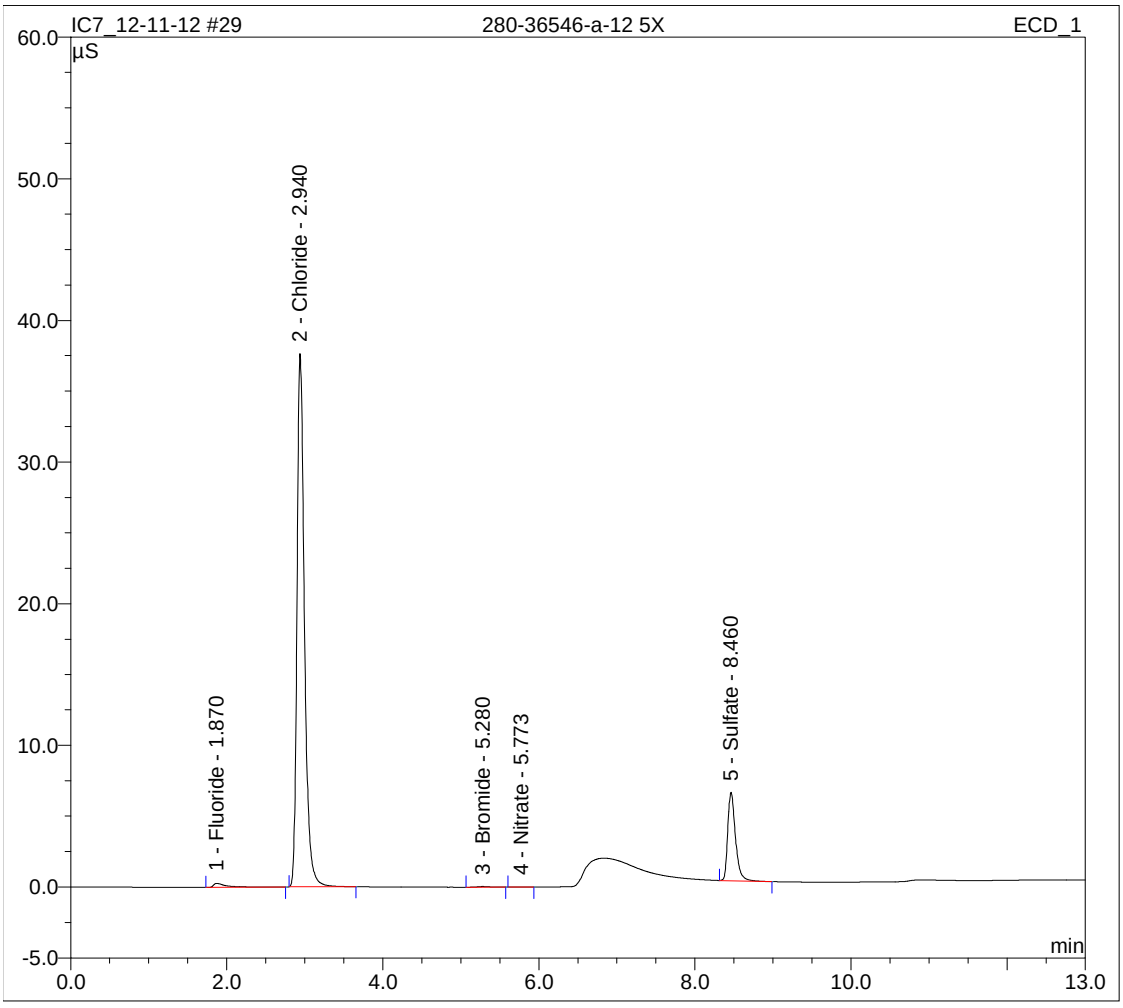
Sample Name:	**280-36546-a-8 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 20:04**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.030	0.156	0.7361
2	2.94	Chloride	BMB	2.883	25.777	56.7942
3	5.31	Bromide	BMB	0.007	0.036	0.6874
TOTAL:				2.92	25.97	58.22



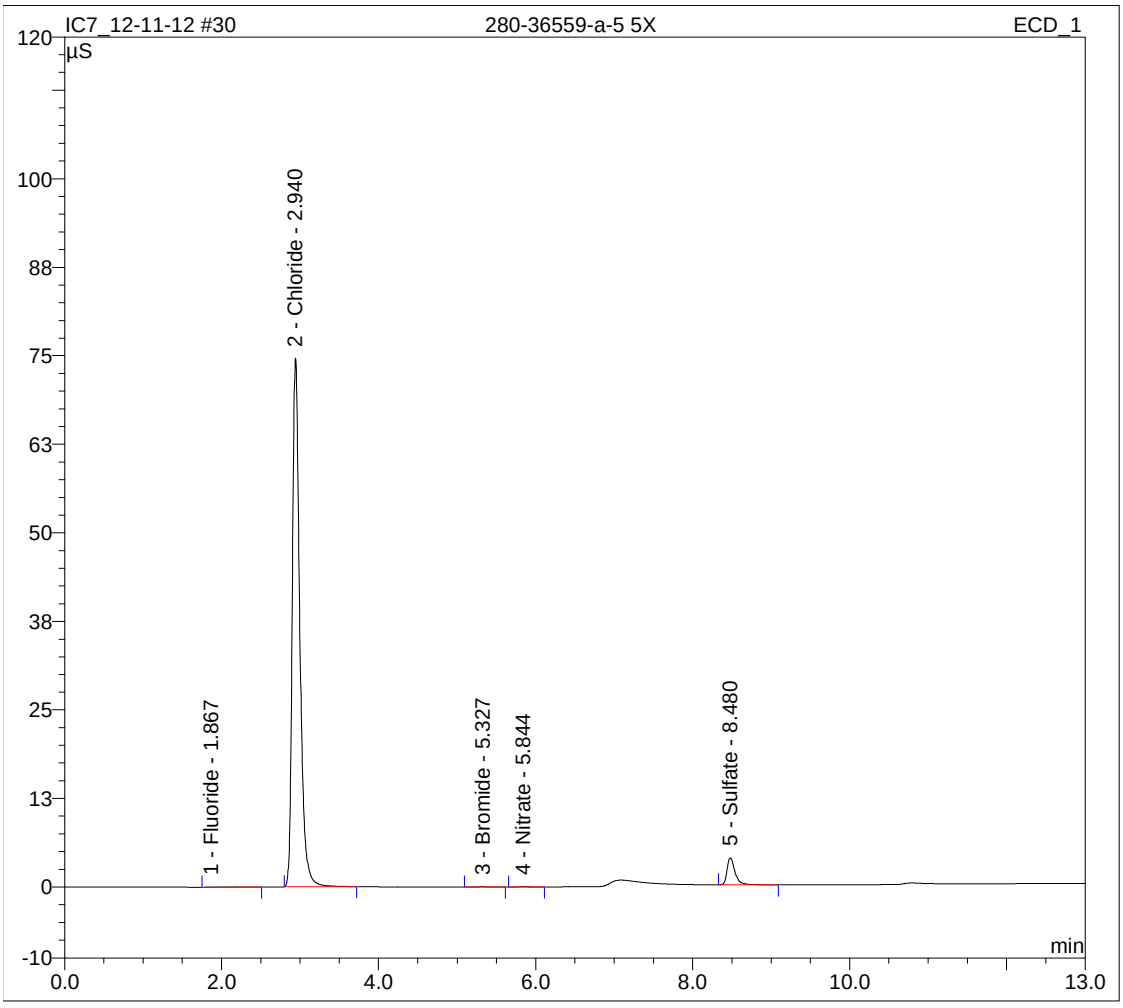
Sample Name:	**280-36546-a-12 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 20:20**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.056	0.273	1.0496
2	2.94	Chloride	BMB	4.169	37.635	82.2491
3	5.28	Bromide	BMB	0.008	0.047	0.7633
4	5.77	Nitrate	BMB	0.001	0.009	0.1777
5	8.46	Sulfate	BMB	0.718	6.231	19.0715
		TOTAL:		4.95	44.19	103.31



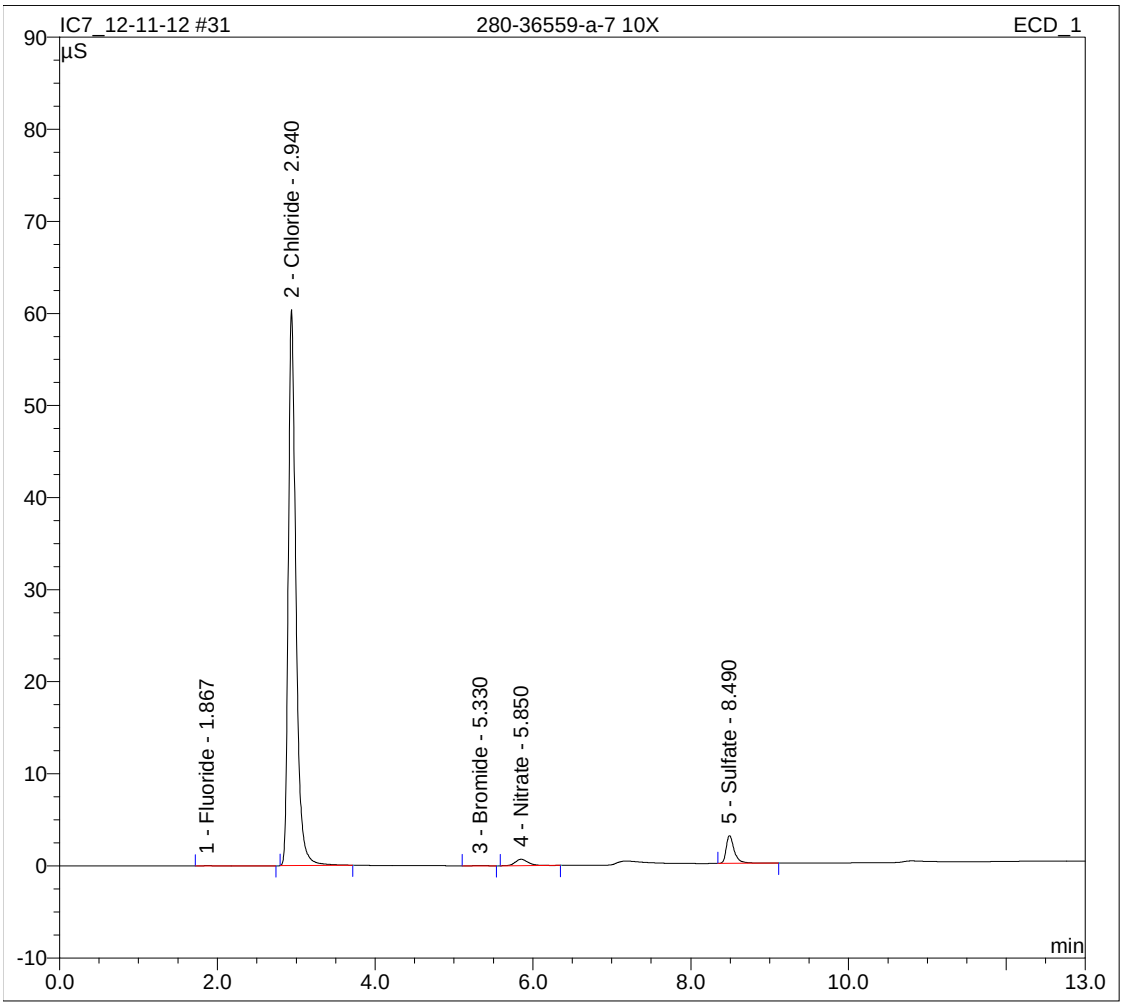
Sample Name:	**280-36559-a-5 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 20:36**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.006	0.024	0.4521
2	2.94	Chloride	BMB	8.257	74.622	163.1993
3	5.33	Bromide	BMB	0.006	0.035	0.6677
4	5.84	Nitrate	BMB	0.006	0.036	0.2146
5	8.48	Sulfate	BMB	0.450	3.817	12.0620
		TOTAL:		8.73	78.54	176.60



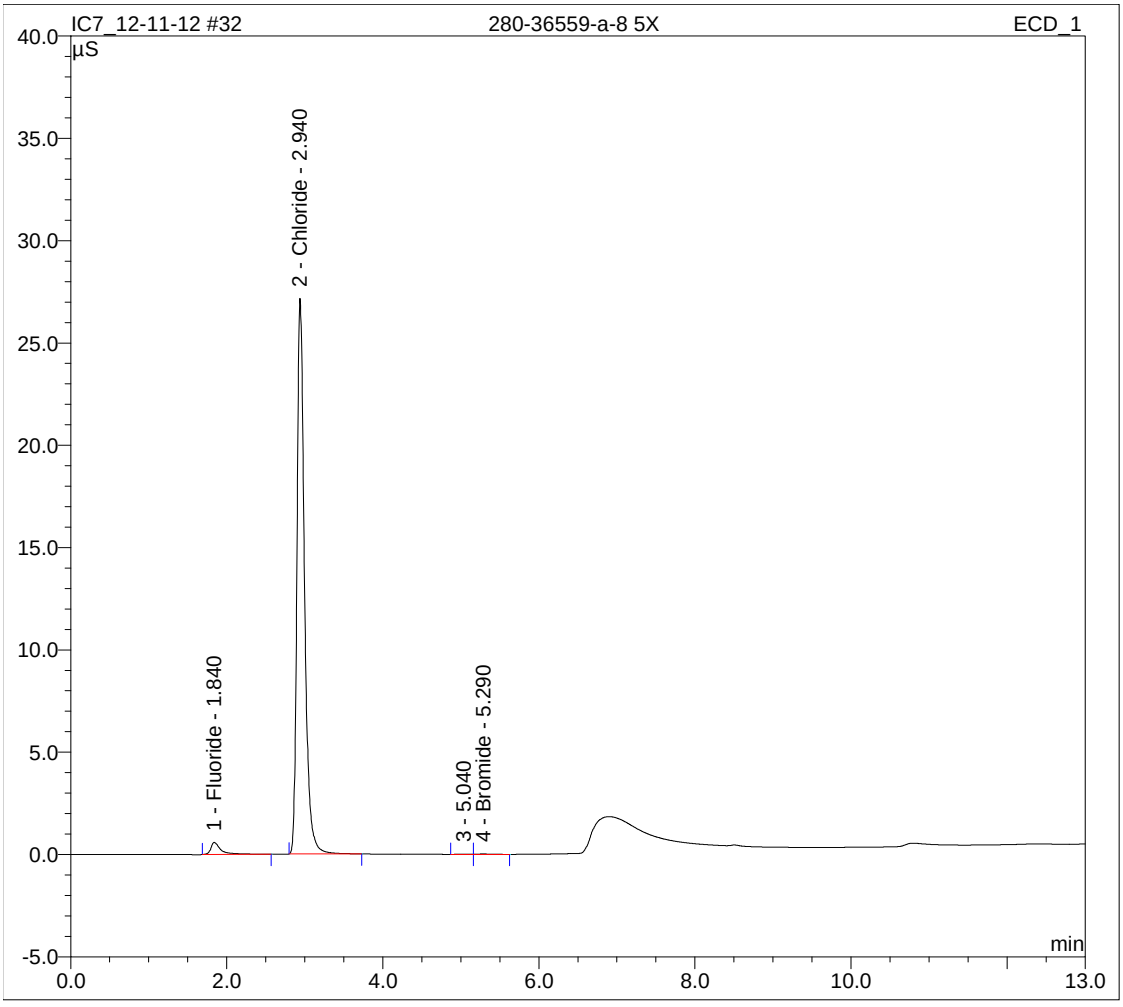
Sample Name:	**280-36559-a-7 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 20:52**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.009	0.038	0.9957
2	2.94	Chloride	BMB	6.737	60.386	266.2101
3	5.33	Bromide	BMB	0.002	0.009	0.9054
4	5.85	Nitrate	BMB	0.132	0.693	2.3882
5	8.49	Sulfate	BMB	0.361	3.001	19.4608
		TOTAL:		7.24	64.13	289.96



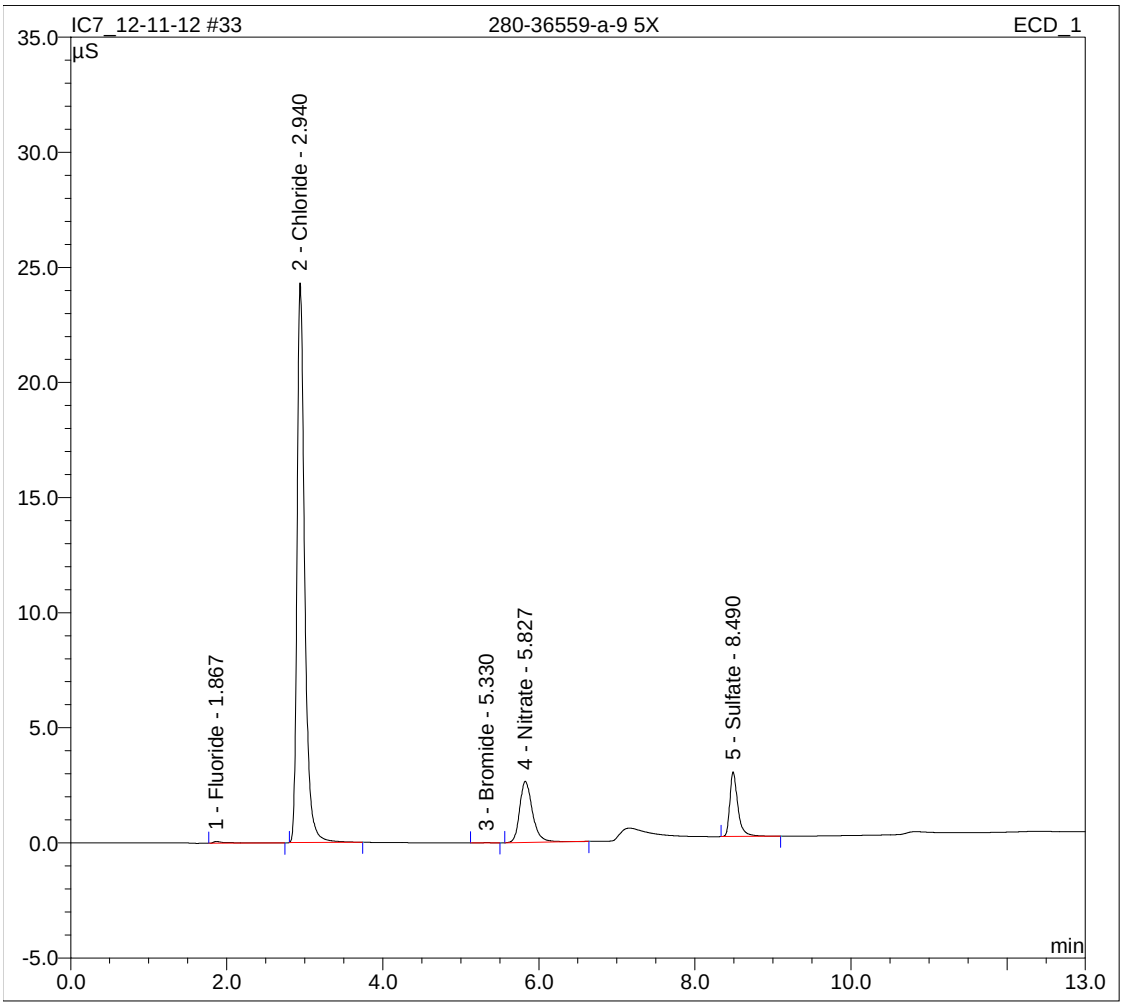
Sample Name:	**280-36559-a-8 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 21:08**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.84	Fluoride	BMB	0.089	0.590	1.4480
2	2.94	Chloride	BMB	3.041	27.160	59.9234
4	5.29	Bromide	MB	0.004	0.020	0.5647
TOTAL:				3.13	27.77	61.94



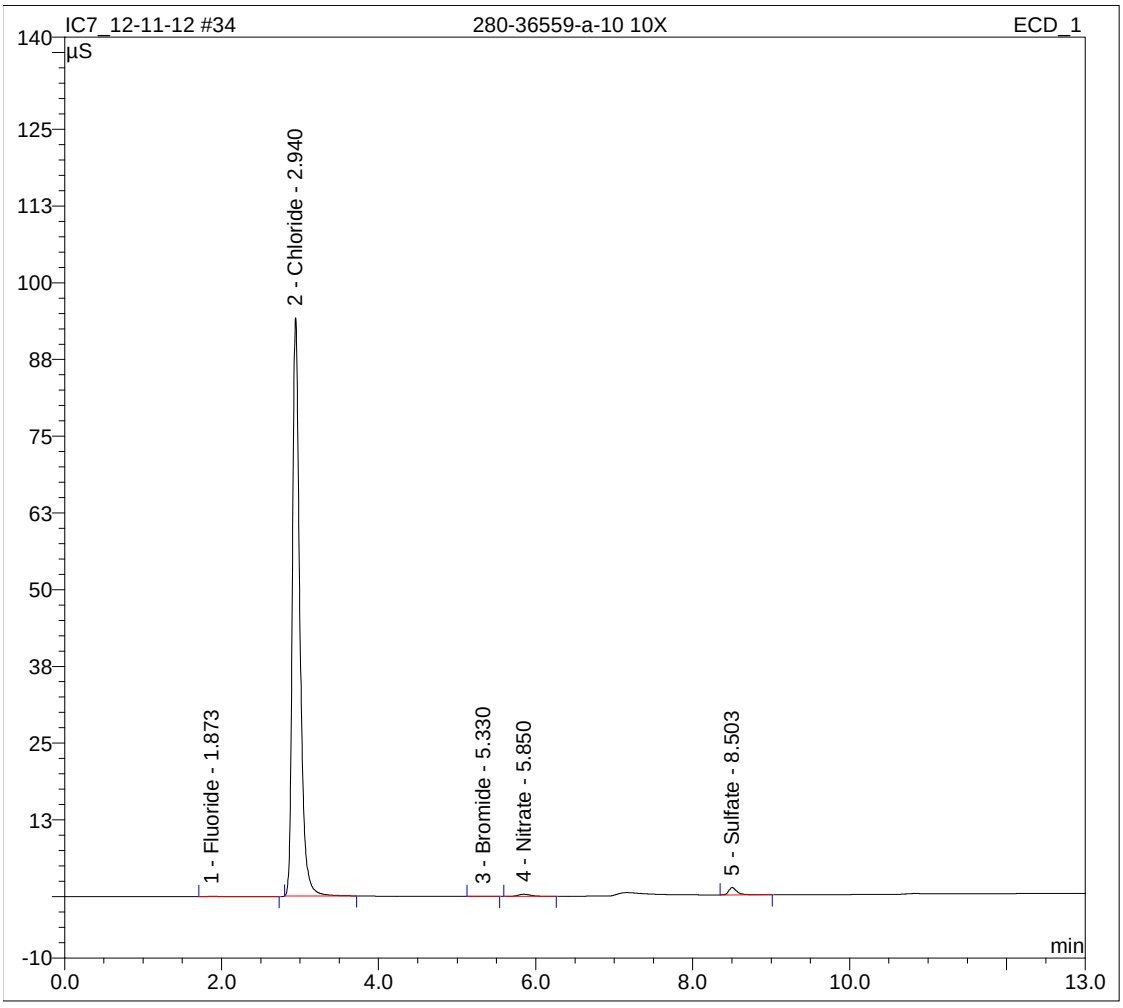
Sample Name:	**280-36559-a-9 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 21:24**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.015	0.069	0.5627
2	2.94	Chloride	BMB	2.744	24.324	54.0462
3	5.33	Bromide	BMB	0.001	0.008	0.4408
4	5.83	Nitrate	BMB	0.505	2.655	4.1053
5	8.49	Sulfate	BMB	0.335	2.802	9.0489
		TOTAL:		3.60	29.86	68.20



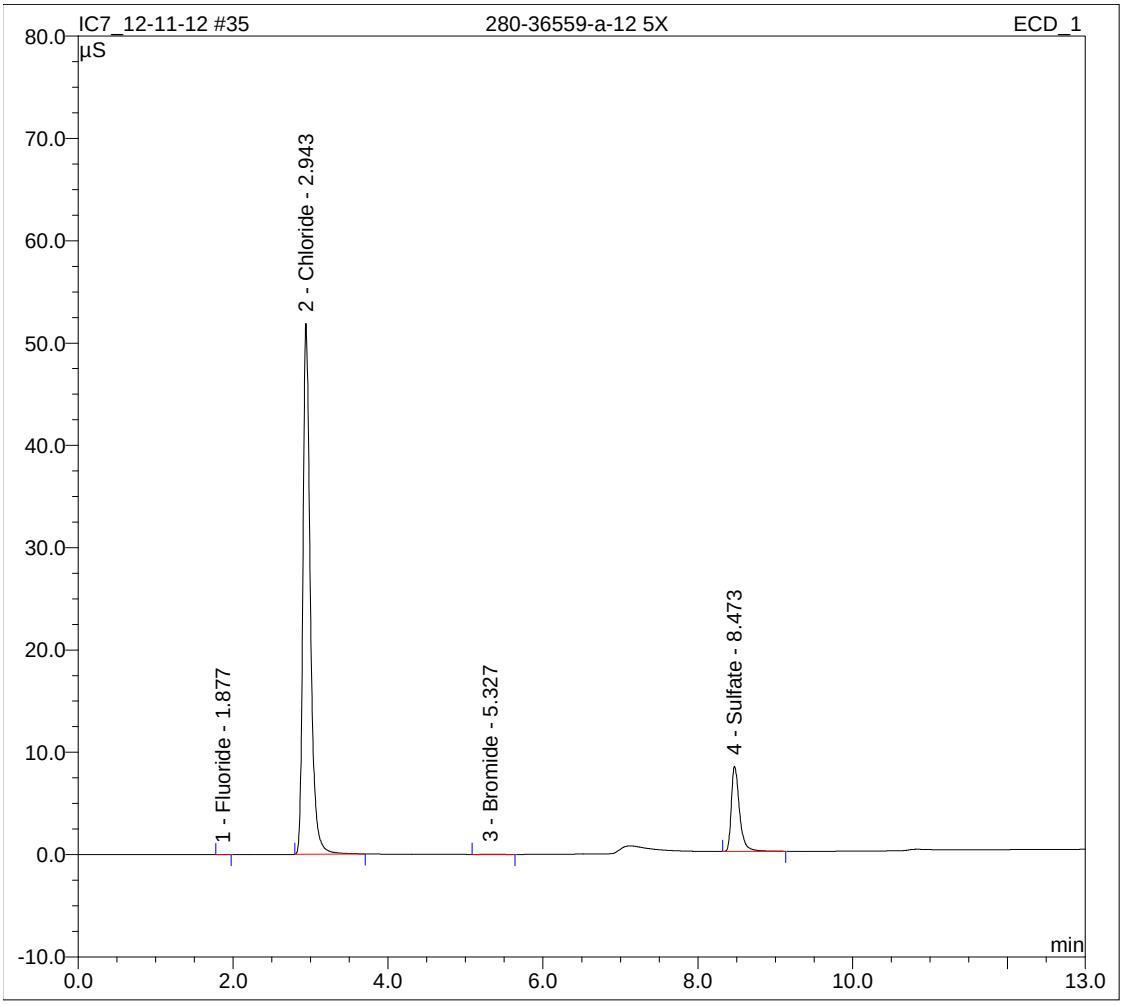
Sample Name:	**280-36559-a-10 10X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**10.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 21:39**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.010	0.031	1.0002
2	2.94	Chloride	BMB	10.383	94.250	410.5712
3	5.33	Bromide	BMB	0.002	0.013	0.9559
4	5.85	Nitrate	BMB	0.067	0.355	1.3782
5	8.50	Sulfate	BMB	0.146	1.204	8.2170
		TOTAL:		10.61	95.85	422.12



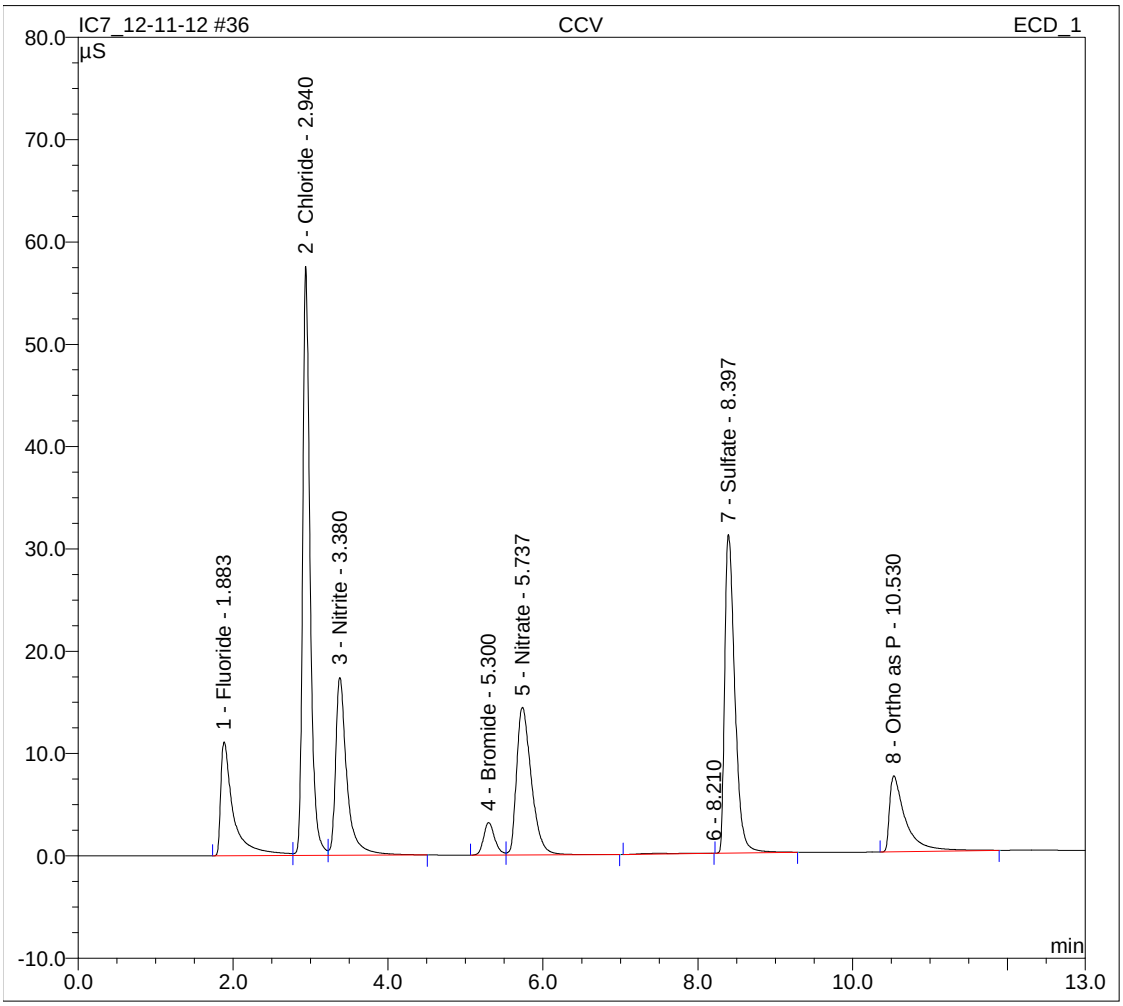
Sample Name:	**280-36559-a-12 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 21:55**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BMB	0.001	0.011	0.3973
2	2.94	Chloride	BMB	5.763	51.897	113.8105
3	5.33	Bromide	BMB	0.004	0.021	0.5572
4	8.47	Sulfate	BMB	1.019	8.314	26.9490
TOTAL:				6.79	60.24	141.71



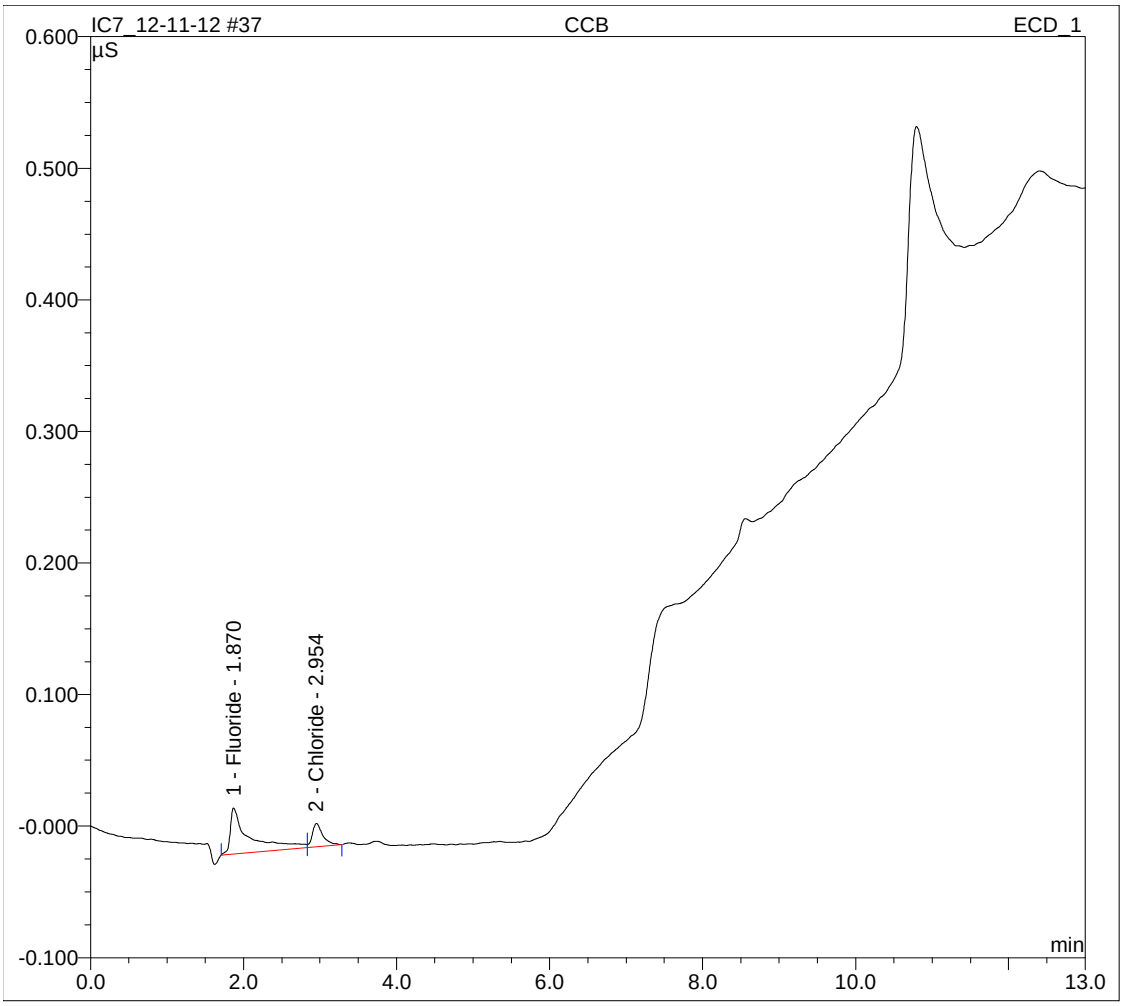
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 22:11**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	2.120	11.126	5.1119
2	2.94	Chloride	M	6.371	57.600	25.1689
3	3.38	Nitrite	MB	2.929	17.397	5.0885
4	5.30	Bromide	BM	0.528	3.172	5.0062
5	5.74	Nitrate	MB	3.185	14.429	5.0036
7	8.40	Sulfate	BMB	4.735	31.129	24.8320
8	10.53	Ortho as P	BMB	1.782	7.426	5.3922
		TOTAL:		21.65	142.28	75.60



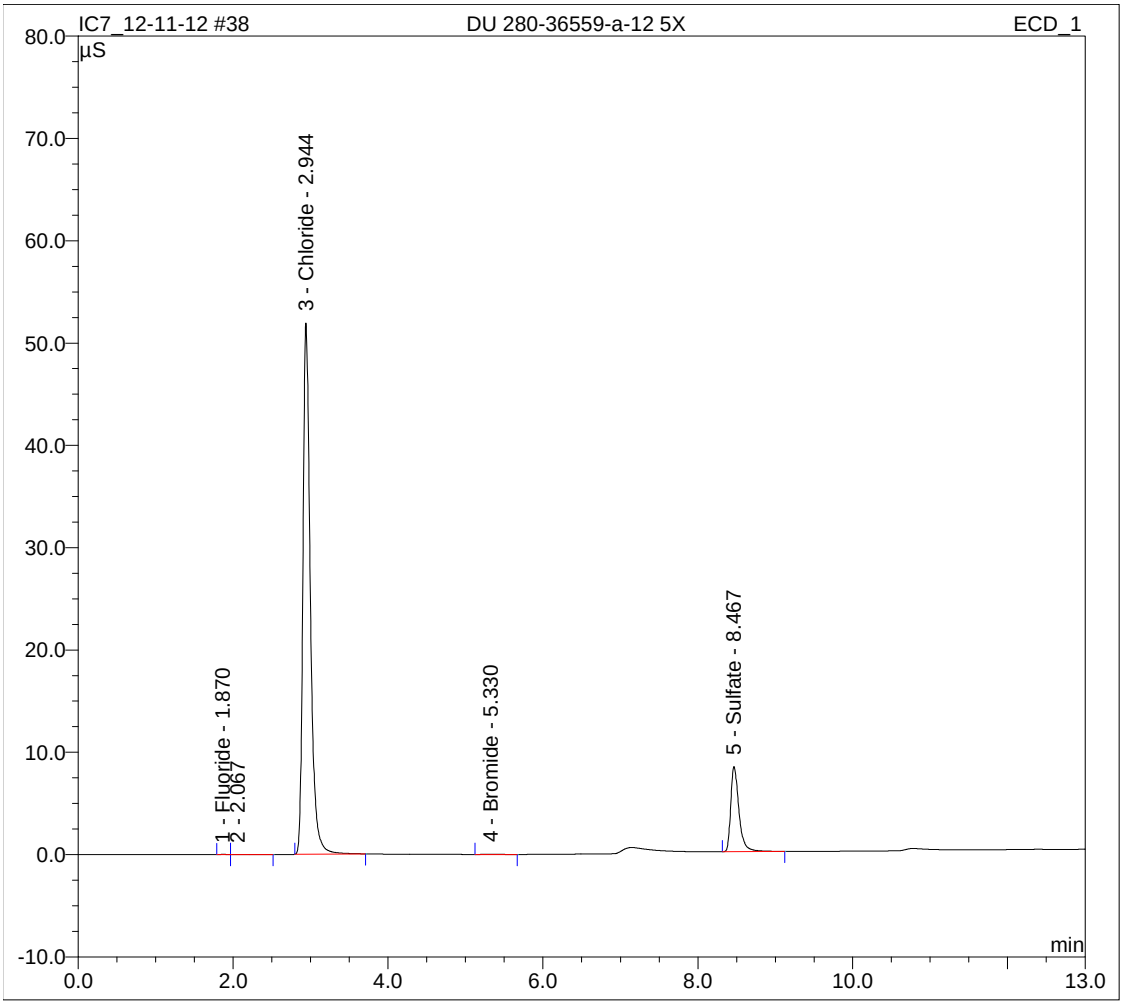
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 22:27**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BM	0.010	0.035	0.1011
2	2.95	Chloride	MB	0.003	0.018	-0.0448
		TOTAL:		0.01	0.05	0.06



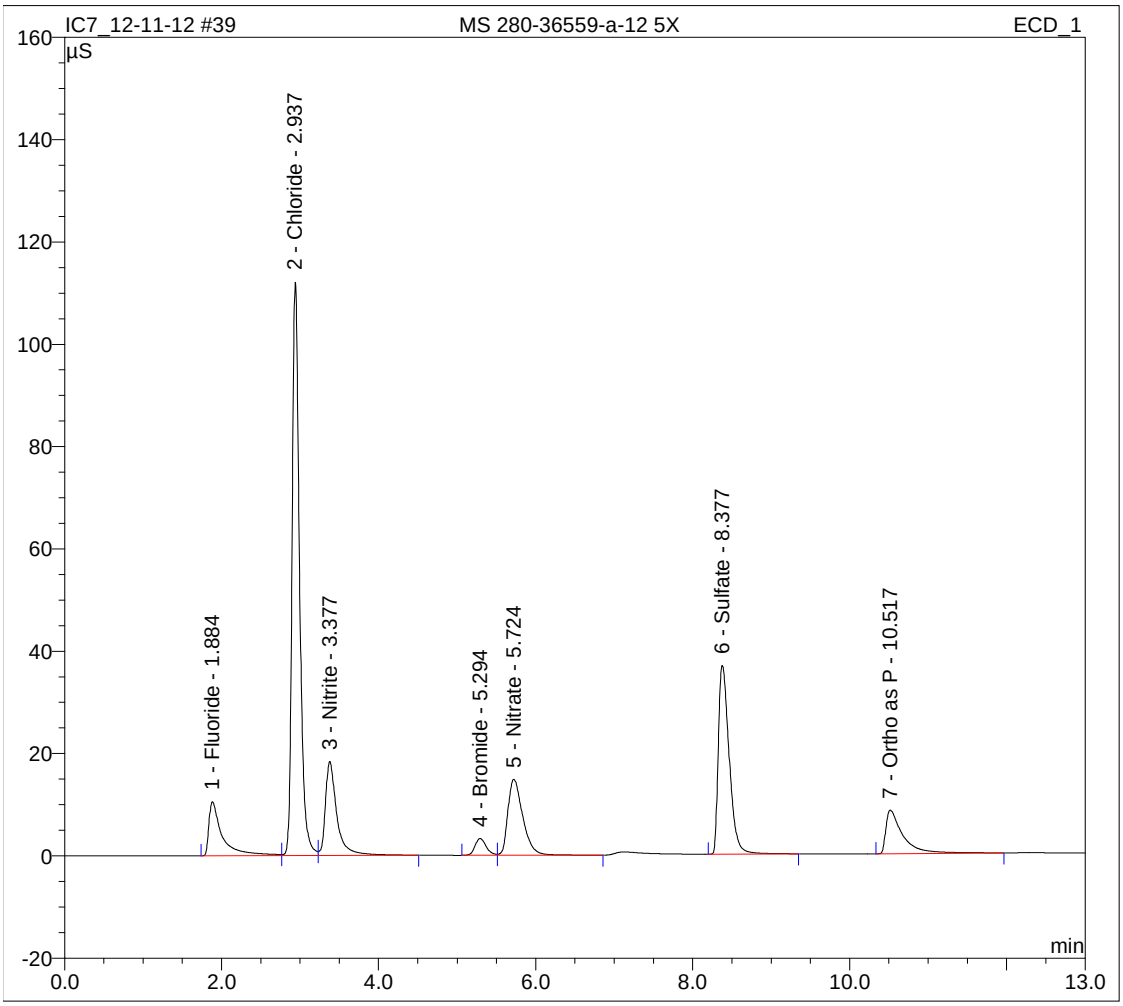
Sample Name:	**DU 280-36559-a-12 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 22:43**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMb	0.001	0.016	0.4024
3	2.94	Chloride	BMB	5.782	51.936	114.1914
4	5.33	Bromide	BMB	0.004	0.021	0.5587
5	8.47	Sulfate	BMB	1.022	8.317	27.0298
TOTAL:				6.81	60.29	142.18



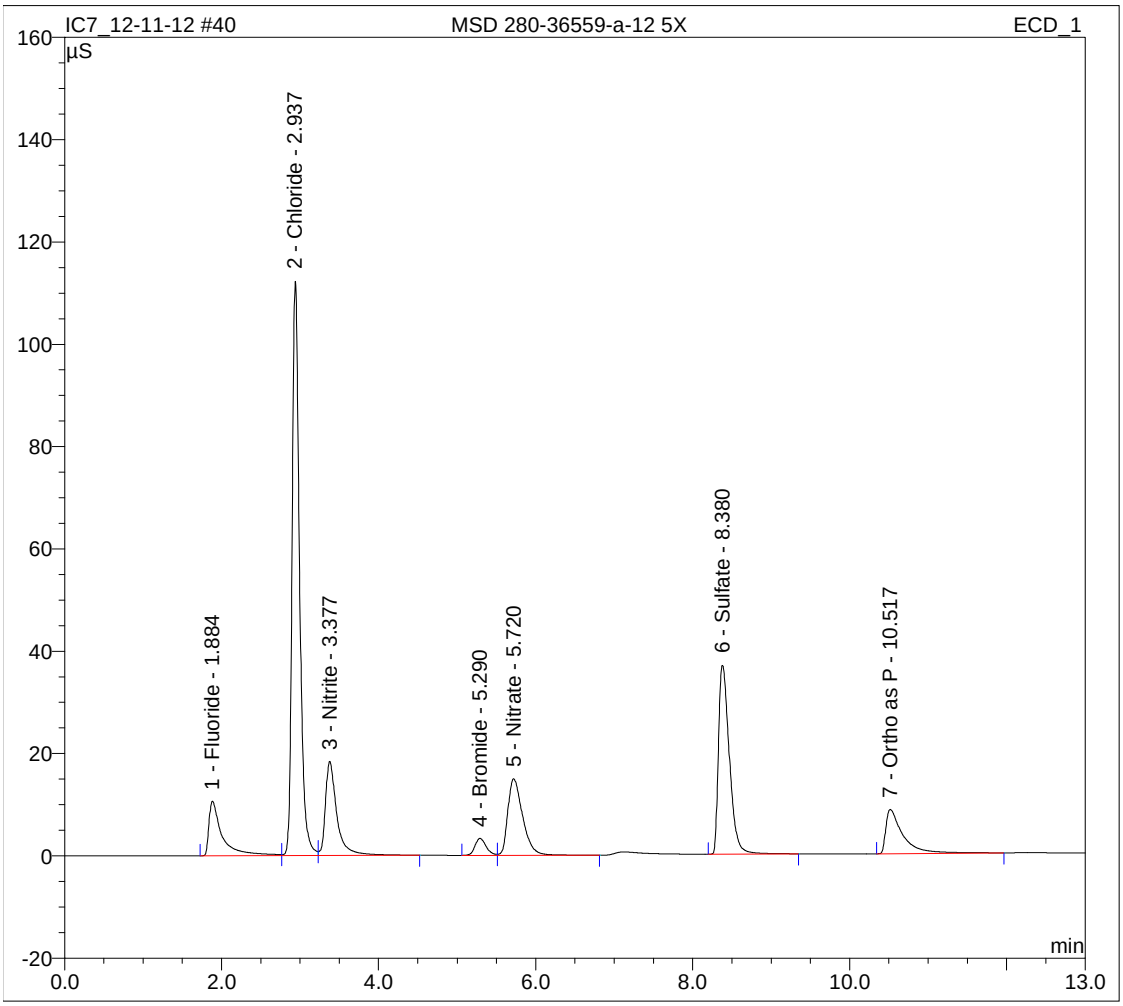
Sample Name:	**MS 280-36559-a-12 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 22:58**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	2.086	10.543	25.1632
2	2.94	Chloride	M	12.300	112.090	243.2284
3	3.38	Nitrite	MB	3.105	18.351	26.9831
4	5.29	Bromide	BM	0.544	3.288	25.7841
5	5.72	Nitrate	MB	3.255	14.850	25.5635
6	8.38	Sulfate	BMB	5.921	36.886	155.1902
7	10.52	Ortho as P	BMB	2.124	8.511	32.1989
TOTAL:				29.33	204.52	534.11



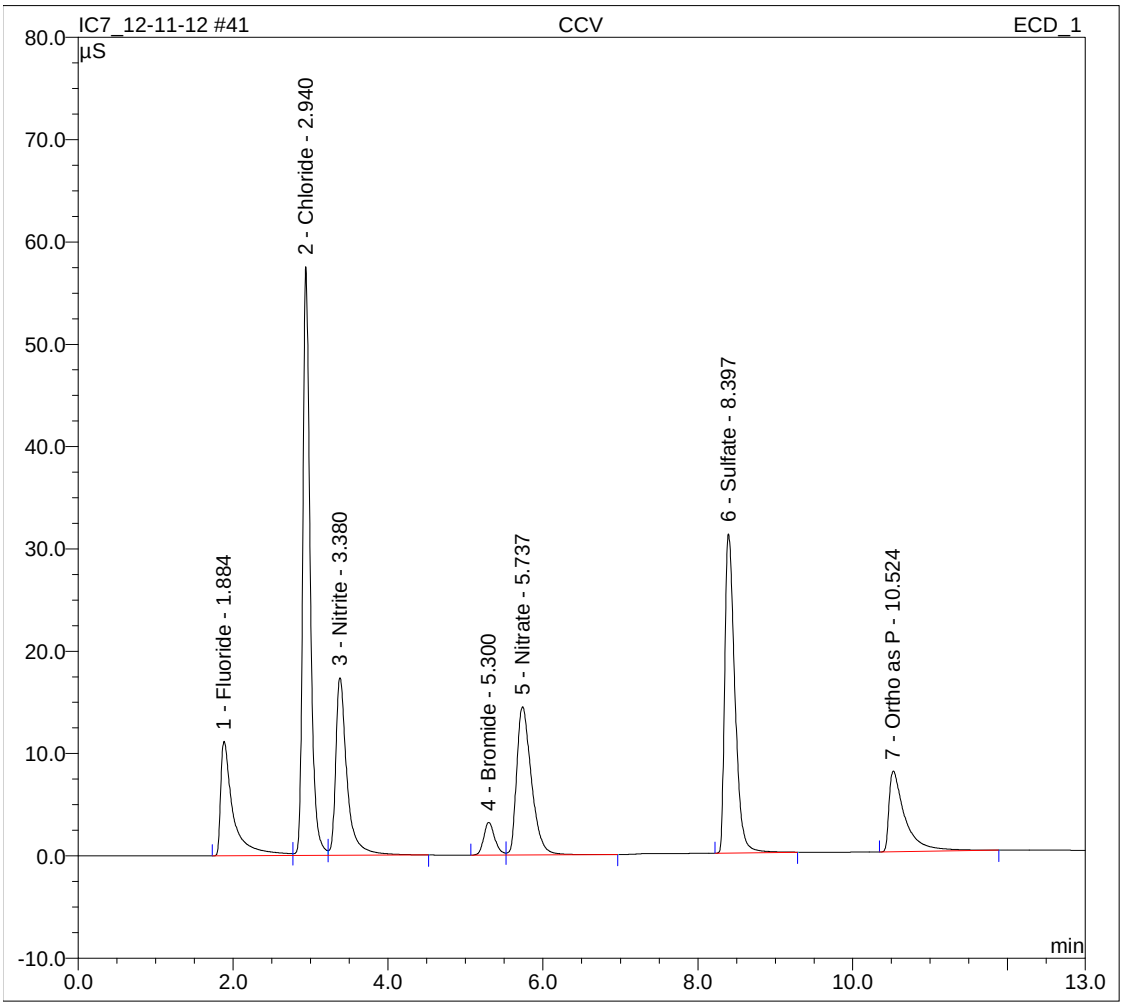
Sample Name:	**MSD 280-36559-a-12 5X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 23:14**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	2.083	10.648	25.1206
2	2.94	Chloride	M	12.311	112.267	243.4435
3	3.38	Nitrite	MB	3.109	18.376	27.0215
4	5.29	Bromide	BM	0.545	3.322	25.8030
5	5.72	Nitrate	MB	3.258	14.961	25.5904
6	8.38	Sulfate	BMB	5.941	36.945	155.7165
7	10.52	Ortho as P	BMB	2.165	8.644	32.8282
		TOTAL:		29.41	205.16	535.52



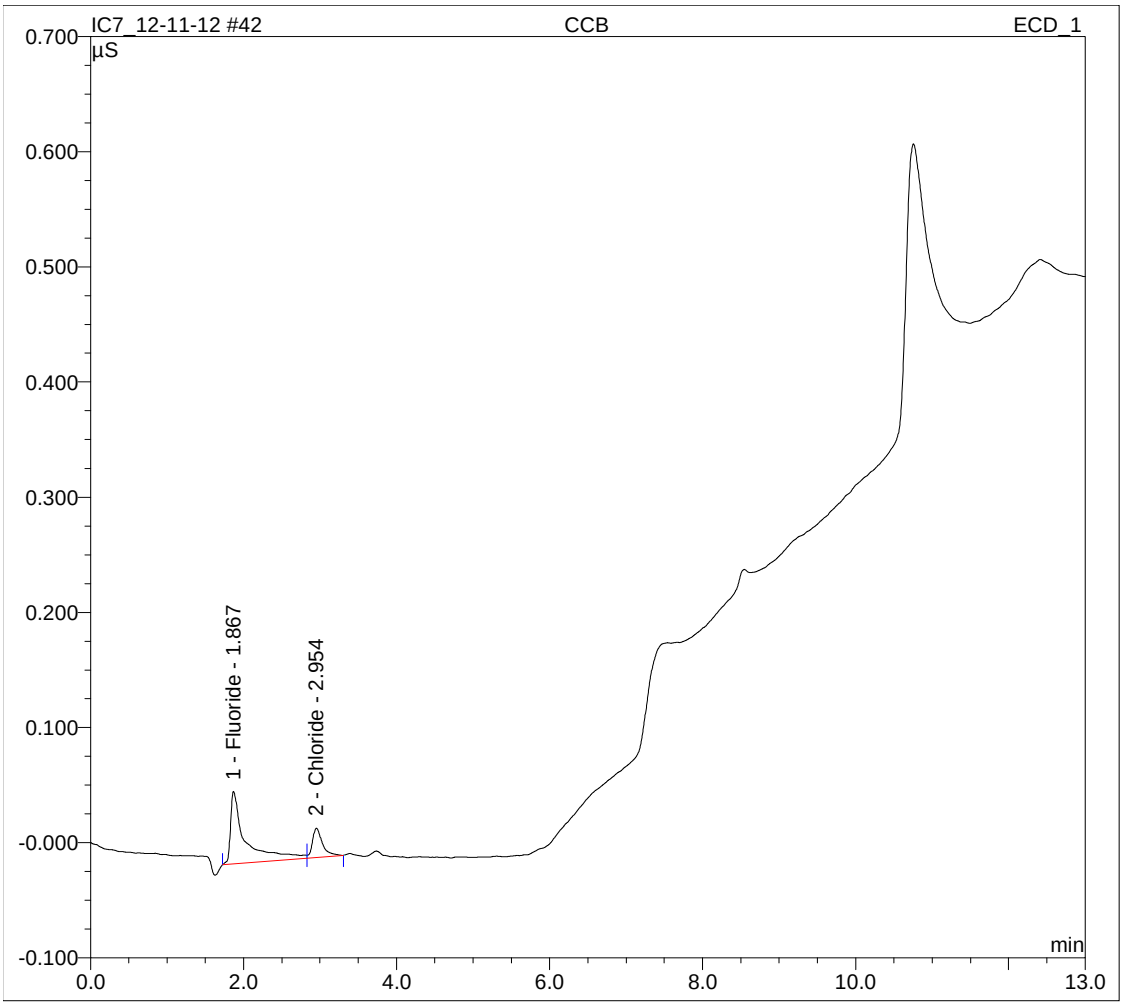
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 23:30**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	2.100	11.184	5.0663
2	2.94	Chloride	M	6.377	57.555	25.1940
3	3.38	Nitrite	MB	2.927	17.372	5.0860
4	5.30	Bromide	BM	0.528	3.195	5.0096
5	5.74	Nitrate	MB	3.185	14.480	5.0042
6	8.40	Sulfate	BMB	4.736	31.201	24.8412
7	10.52	Ortho as P	BMB	1.894	7.885	5.7373
		TOTAL:		21.75	142.87	75.94



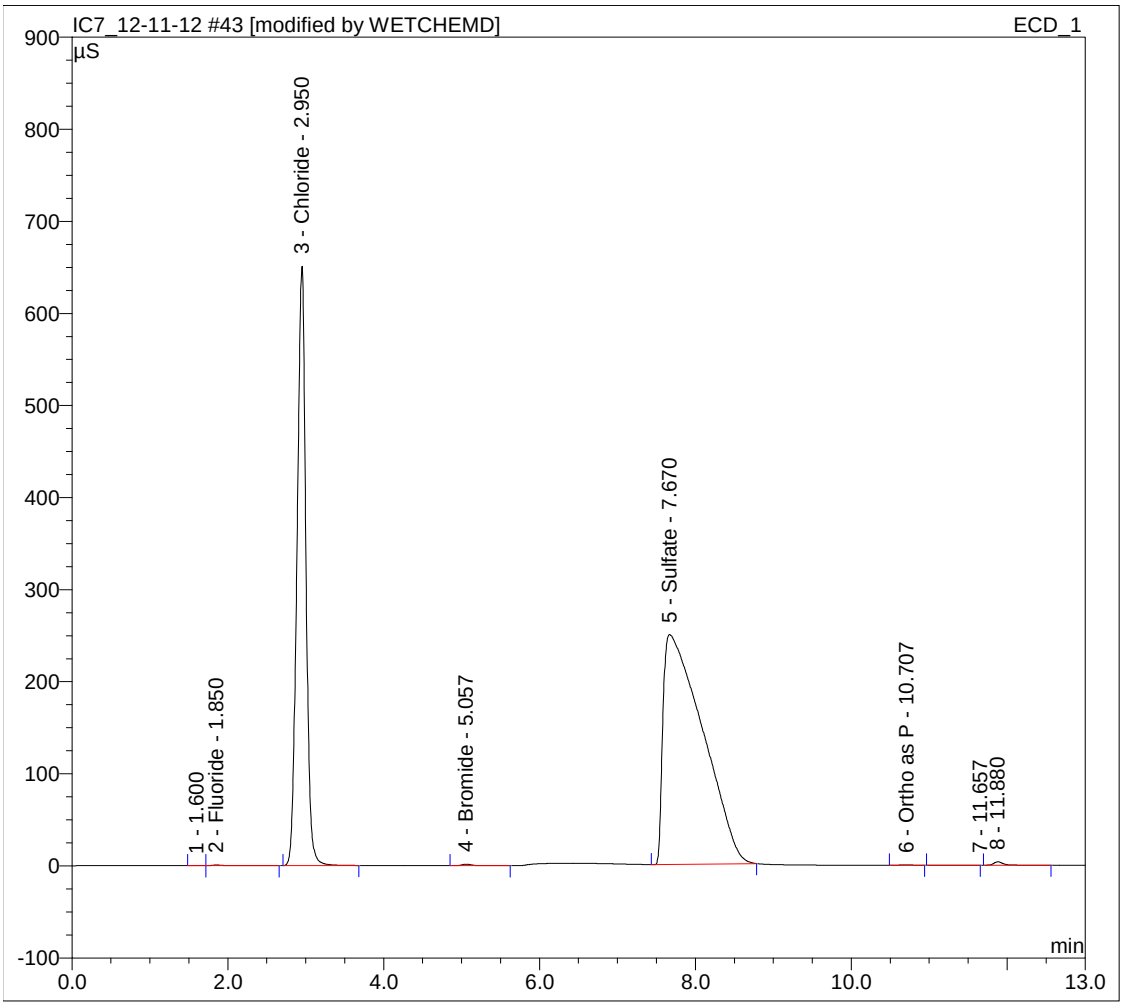
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/11/12 23:46**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BM	0.014	0.063	0.1112
2	2.95	Chloride	MB	0.004	0.025	-0.0407
		TOTAL:		0.02	0.09	0.07



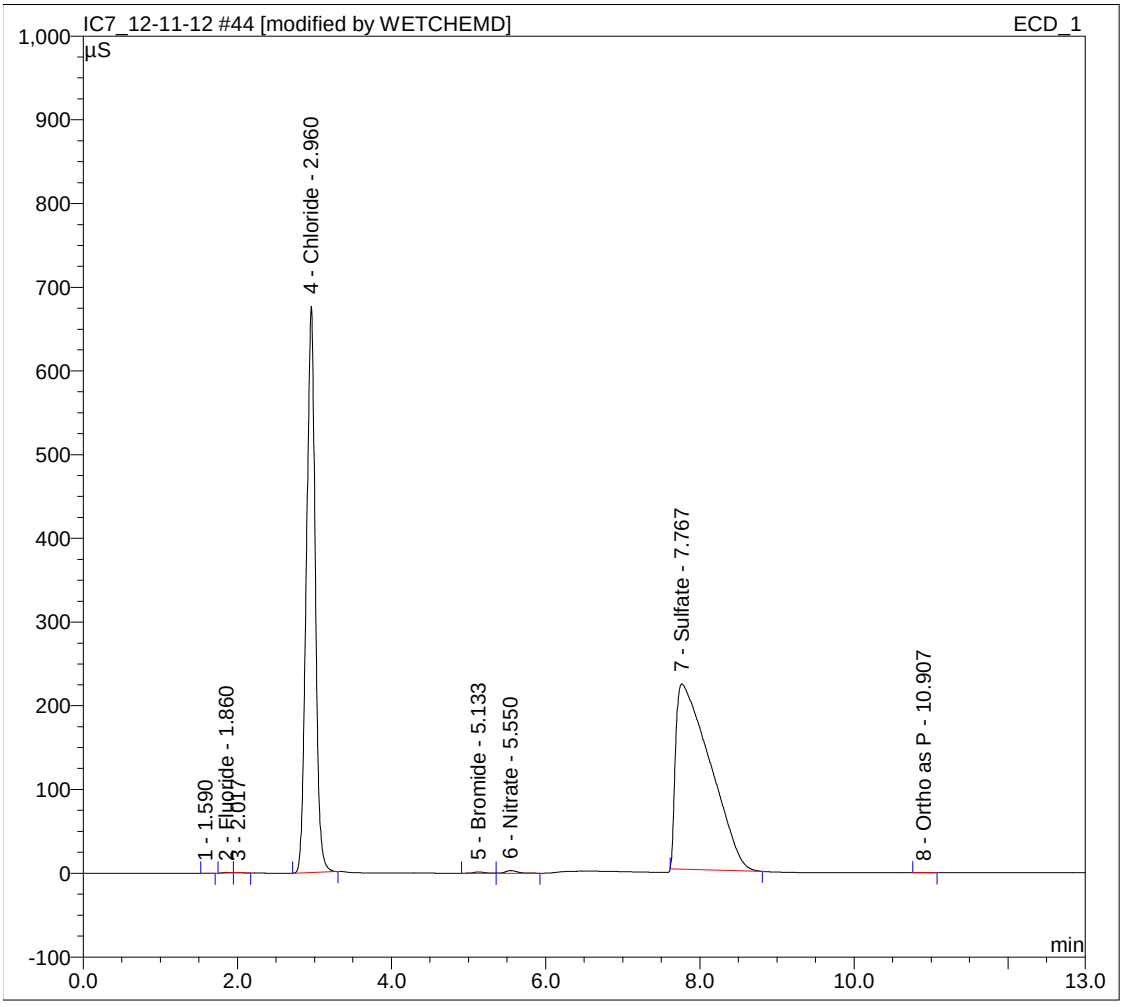
Sample Name:	**280-36712-a-9**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 07:38**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.85	Fluoride	MB	0.146	0.789	0.4246
3	2.95	Chloride	BMB	85.990	651.228	340.4313
4	5.06	Bromide	BMB	0.245	1.660	2.3588
5	7.67	Sulfate	BMB*	146.296	249.736	765.5316
6	10.71	Ortho as P	BMB	0.057	0.352	0.1090
		TOTAL:		232.73	903.76	1108.86



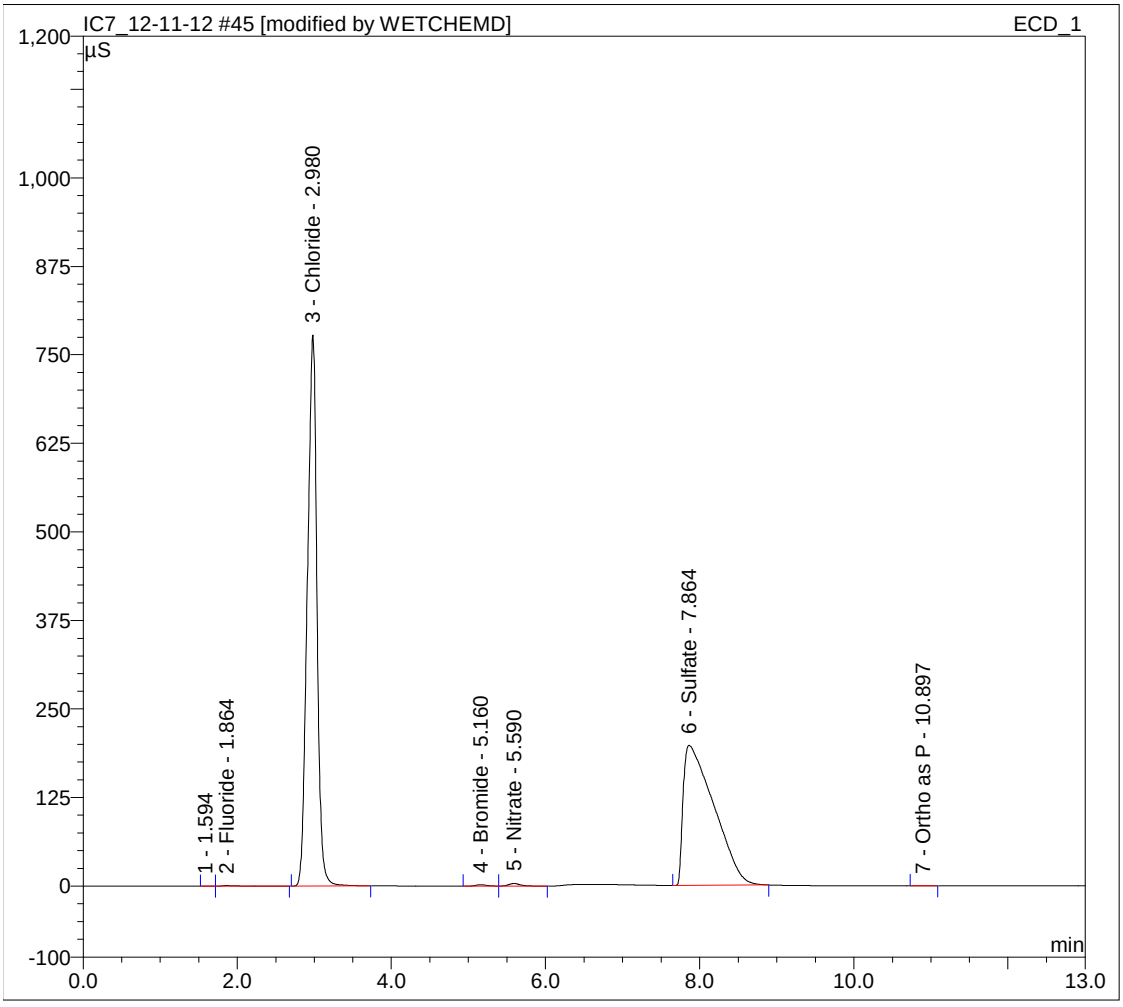
Sample Name:	**280-36712-a-10**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 07:54**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.86	Fluoride	BMb	0.062	0.609	0.2246
4	2.96	Chloride	BMB	90.495	676.514	358.2687
5	5.13	Bromide	BM	0.234	1.480	2.2620
6	5.55	Nitrate	MB	0.524	3.076	0.8507
7	7.77	Sulfate	BMB*	114.526	221.237	599.3020
8	10.91	Ortho as P	BMB	0.002	0.014	-0.0594
		TOTAL:		205.84	902.93	960.85



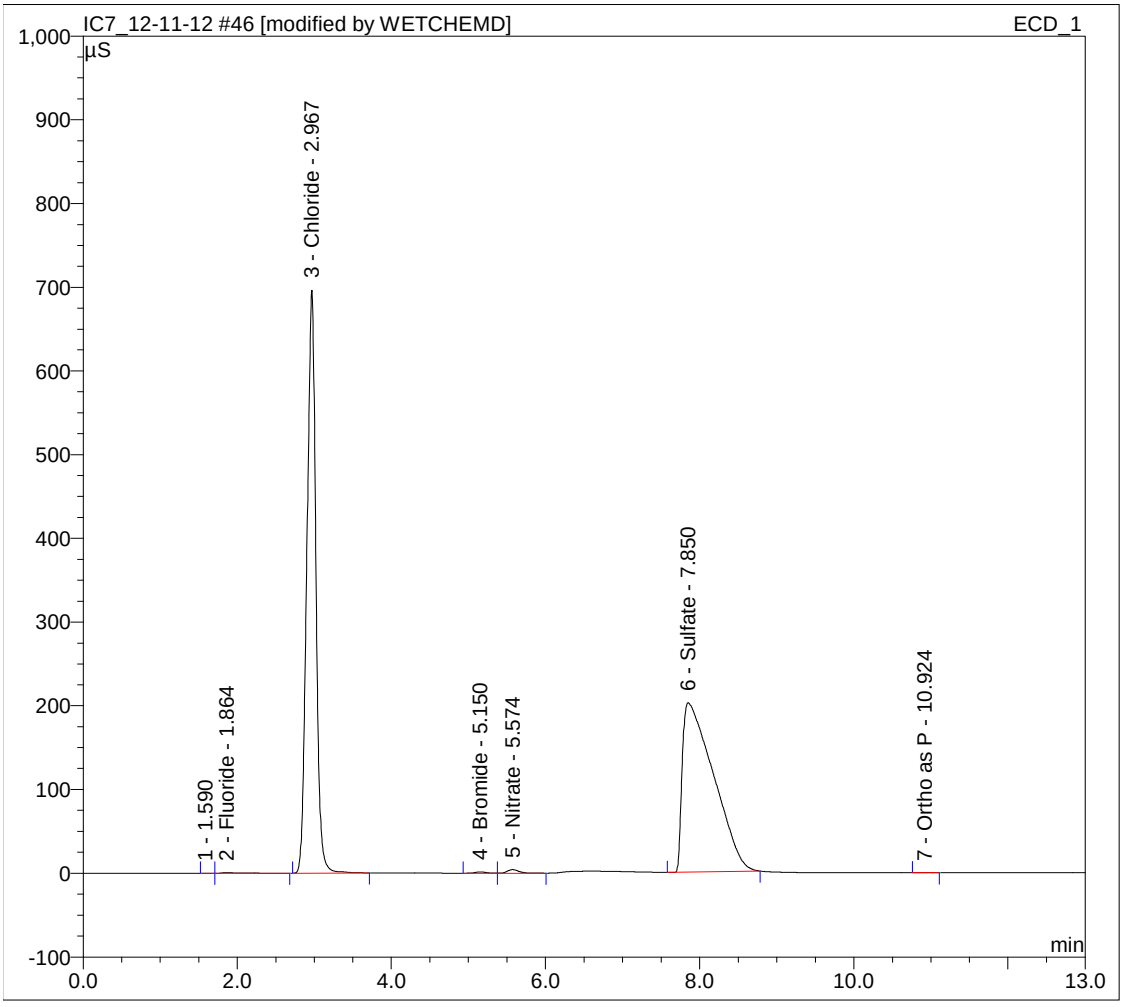
Sample Name:	**280-36712-a-11**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 08:10**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.86	Fluoride	MB	0.153	0.747	0.4399
3	2.98	Chloride	BMB	111.822	778.249	442.7160
4	5.16	Bromide	BM	0.296	1.867	2.8434
5	5.59	Nitrate	MB	0.611	3.531	0.9870
6	7.86	Sulfate	BMB*	90.920	197.565	475.7841
7	10.90	Ortho as P	BMB	0.001	0.011	-0.0604
		TOTAL:		203.80	981.97	922.71



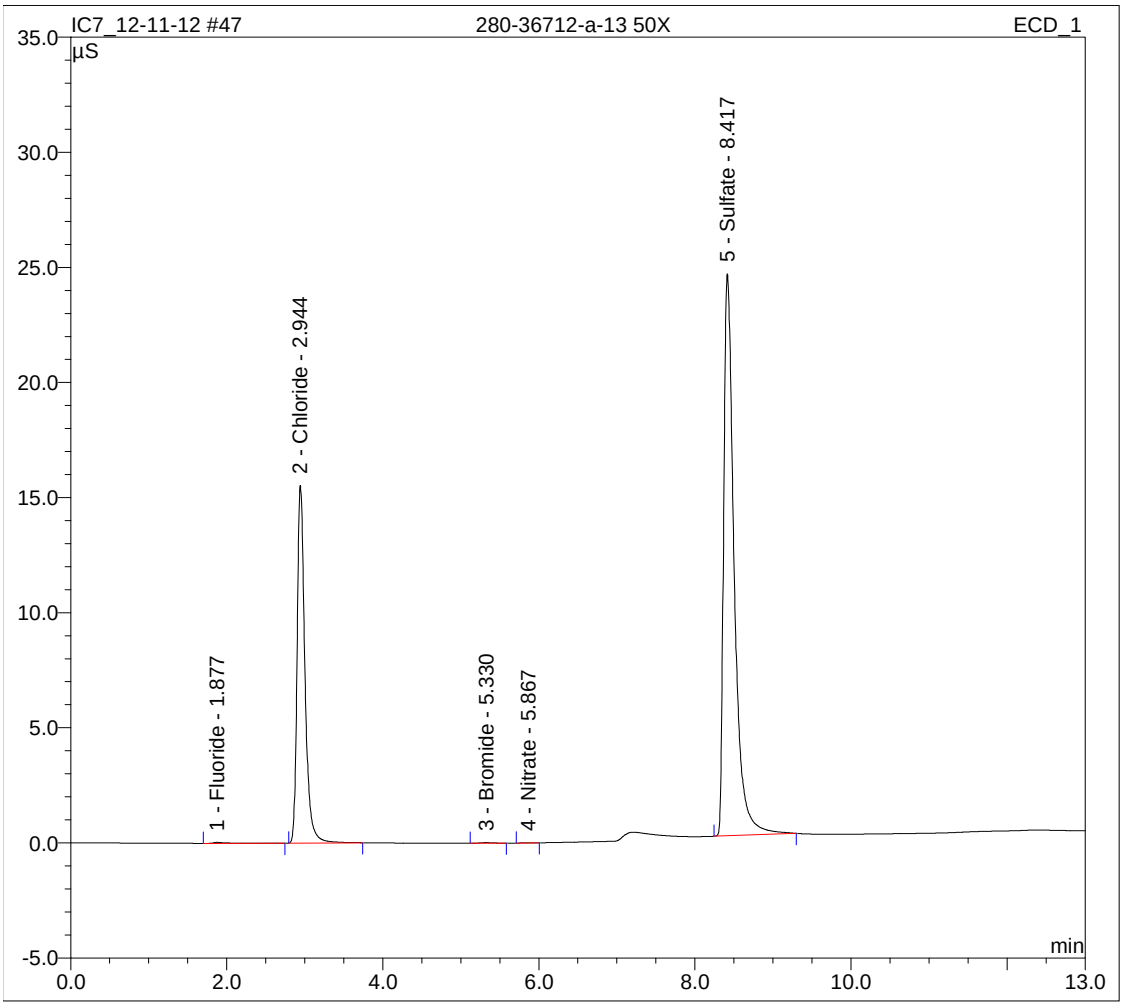
Sample Name:	**280-36712-a-12**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 08:26**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.86	Fluoride	MB	0.164	0.839	0.4670
3	2.97	Chloride	BMB	94.460	696.520	373.9665
4	5.15	Bromide	BM	0.241	1.539	2.3261
5	5.57	Nitrate	MB	0.731	4.267	1.1737
6	7.85	Sulfate	BMB*	94.716	202.204	495.6494
7	10.92	Ortho as P	BMB	0.002	0.012	-0.0600
		TOTAL:		190.31	905.38	873.52



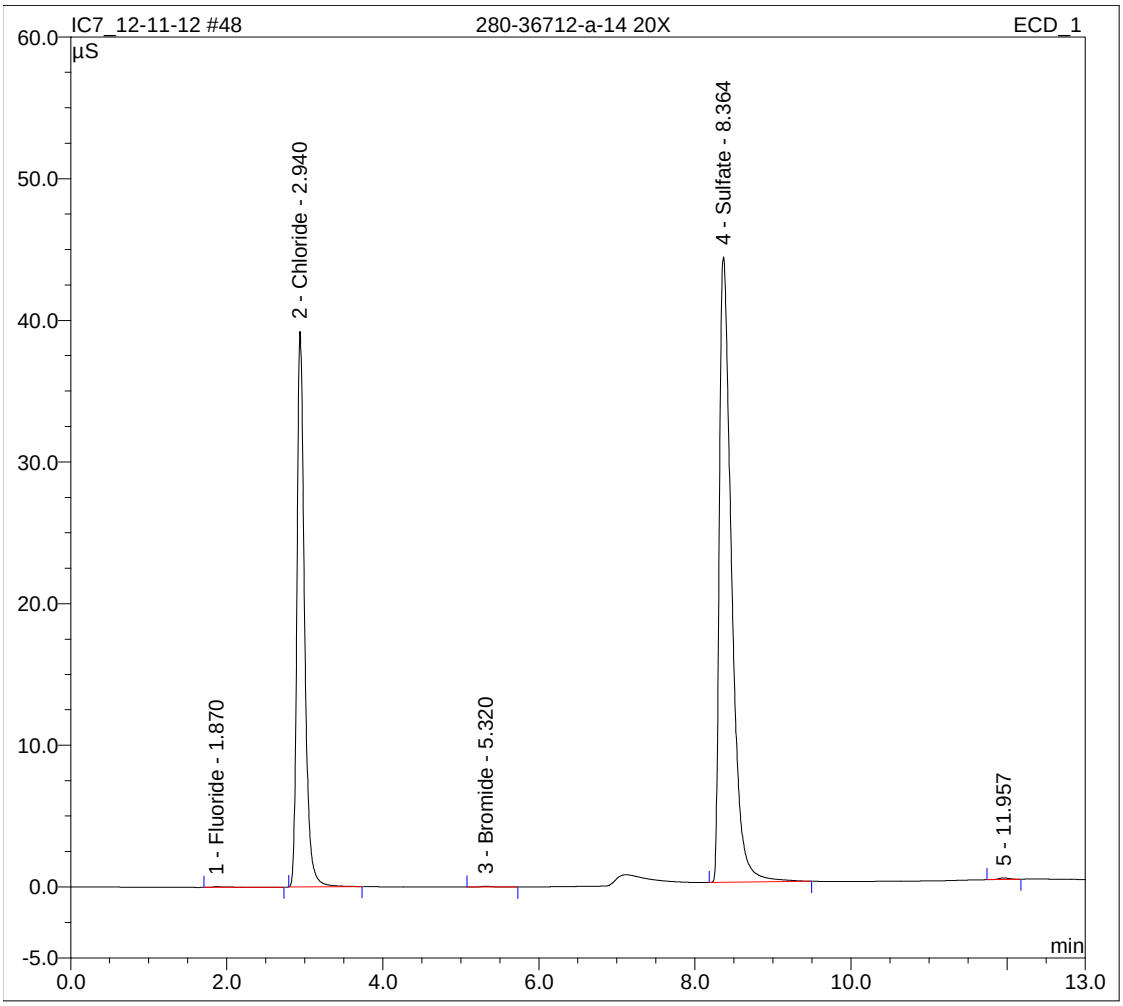
Sample Name:	**280-36712-a-13 50X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 08:42**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BMB	0.011	0.046	5.1673
2	2.94	Chloride	BMB	1.801	15.538	353.7400
3	5.33	Bromide	BMB	0.004	0.021	5.5873
4	5.87	Nitrate	BMB	0.001	0.010	1.7860
5	8.42	Sulfate	BMB	3.846	24.421	1009.0075
		TOTAL:		5.66	40.04	1375.29



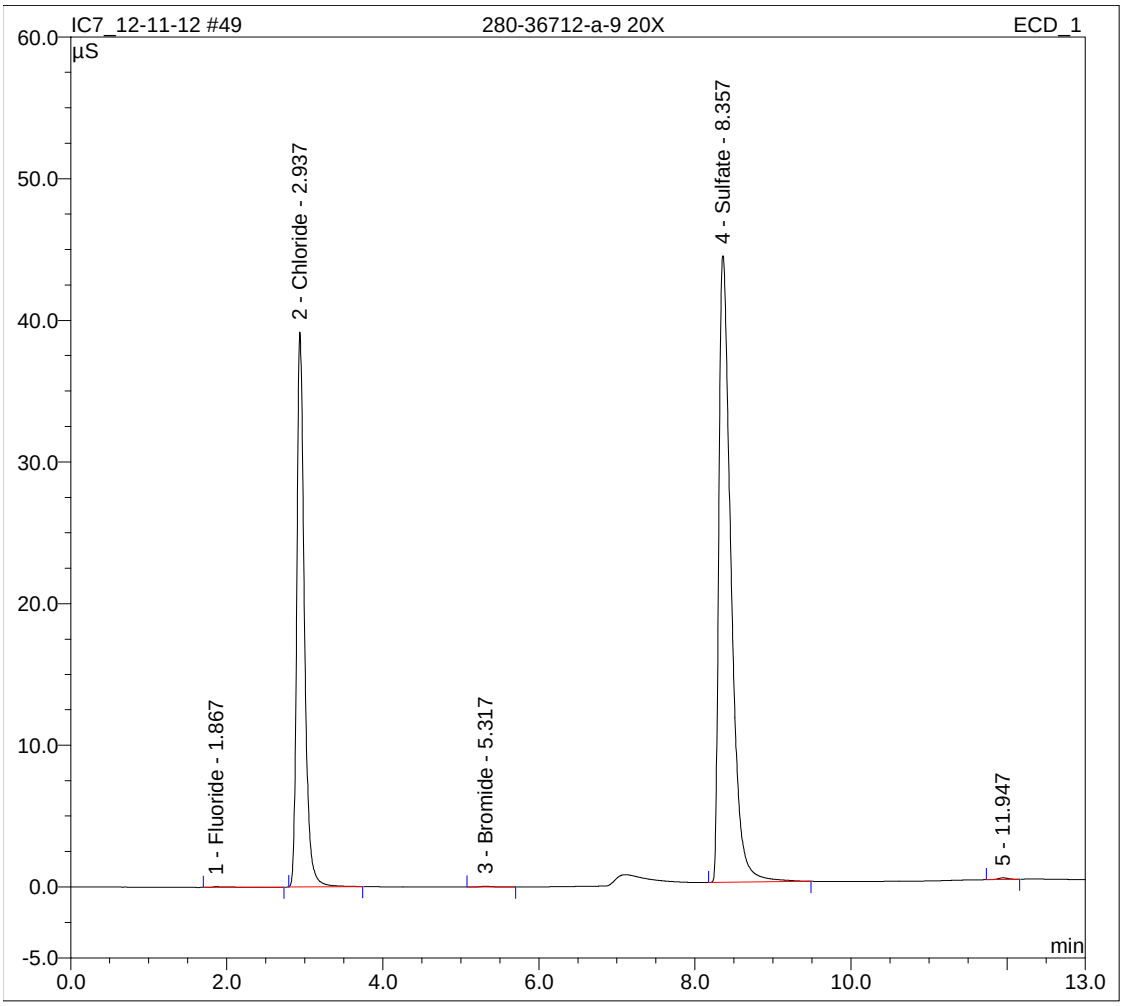
Sample Name:	**280-36712-a-14 20X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**20.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 08:57**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.011	0.044	2.0610
2	2.94	Chloride	BMB	4.439	39.218	350.4455
3	5.32	Bromide	BMB	0.010	0.054	3.3855
4	8.36	Sulfate	BMB	8.018	44.146	840.1795
TOTAL:				12.48	83.46	1196.07



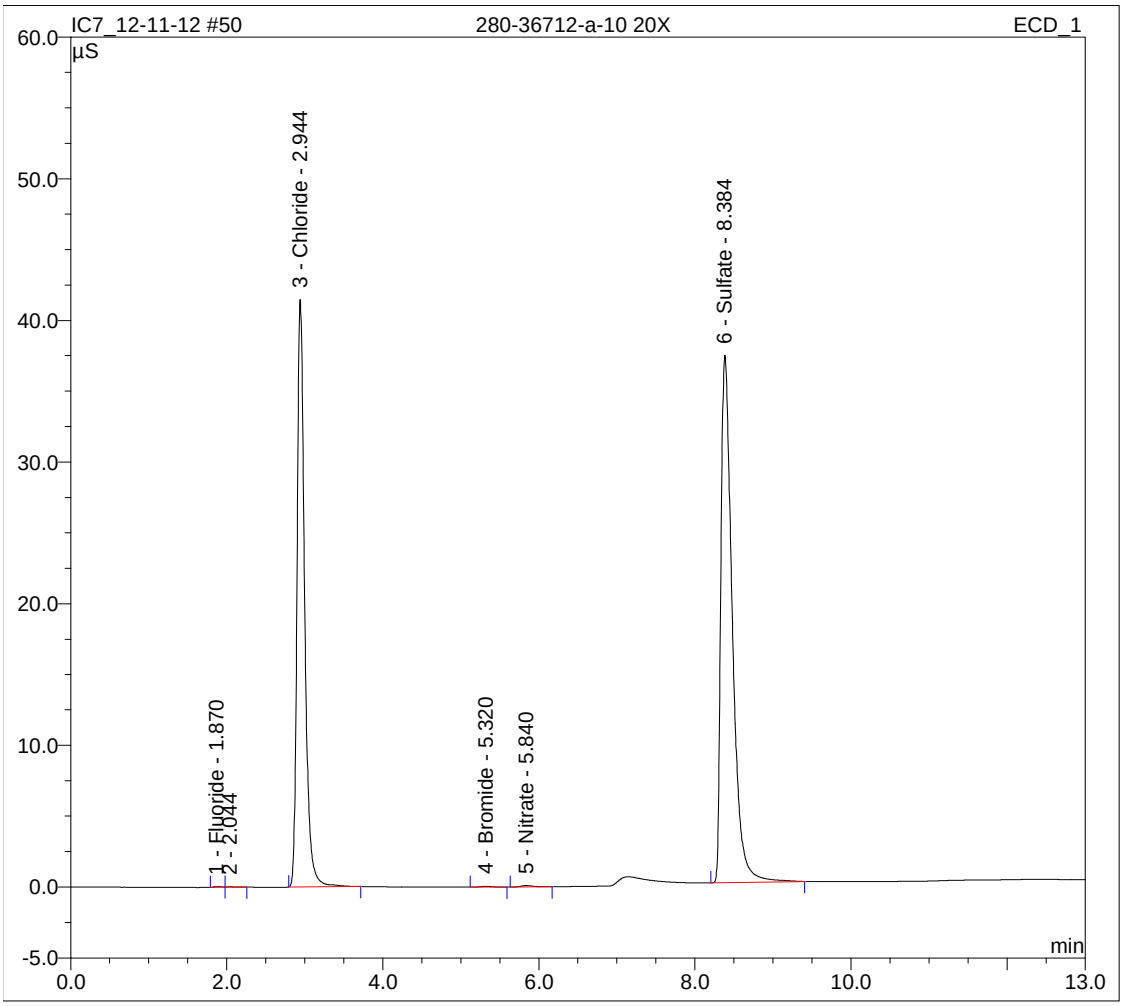
Sample Name:	**280-36712-a-9 20X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**20.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 09:13**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.011	0.040	2.0437
2	2.94	Chloride	BMB	4.425	39.161	349.3130
3	5.32	Bromide	BMB	0.010	0.054	3.3717
4	8.36	Sulfate	BMB	8.001	44.219	838.4875
TOTAL:				12.45	83.47	1193.22



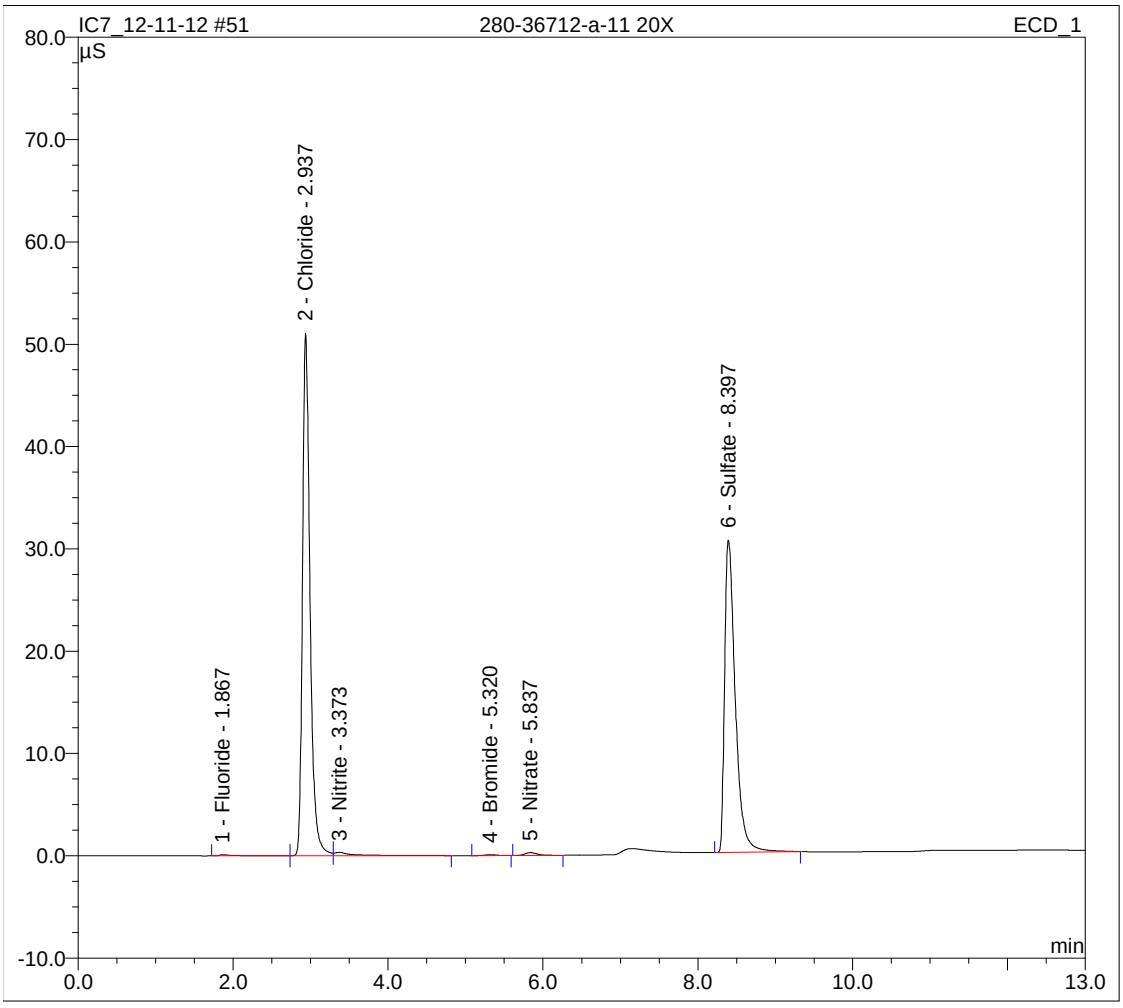
Sample Name:	**280-36712-a-10 20X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**20.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 09:29**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMb	0.004	0.040	1.7245
3	2.94	Chloride	BMB	4.690	41.462	370.2682
4	5.32	Bromide	BMB	0.009	0.052	3.1738
5	5.84	Nitrate	BMB	0.017	0.097	1.2149
6	8.38	Sulfate	BMB	6.347	37.220	665.3631
		TOTAL:		11.07	78.87	1041.74



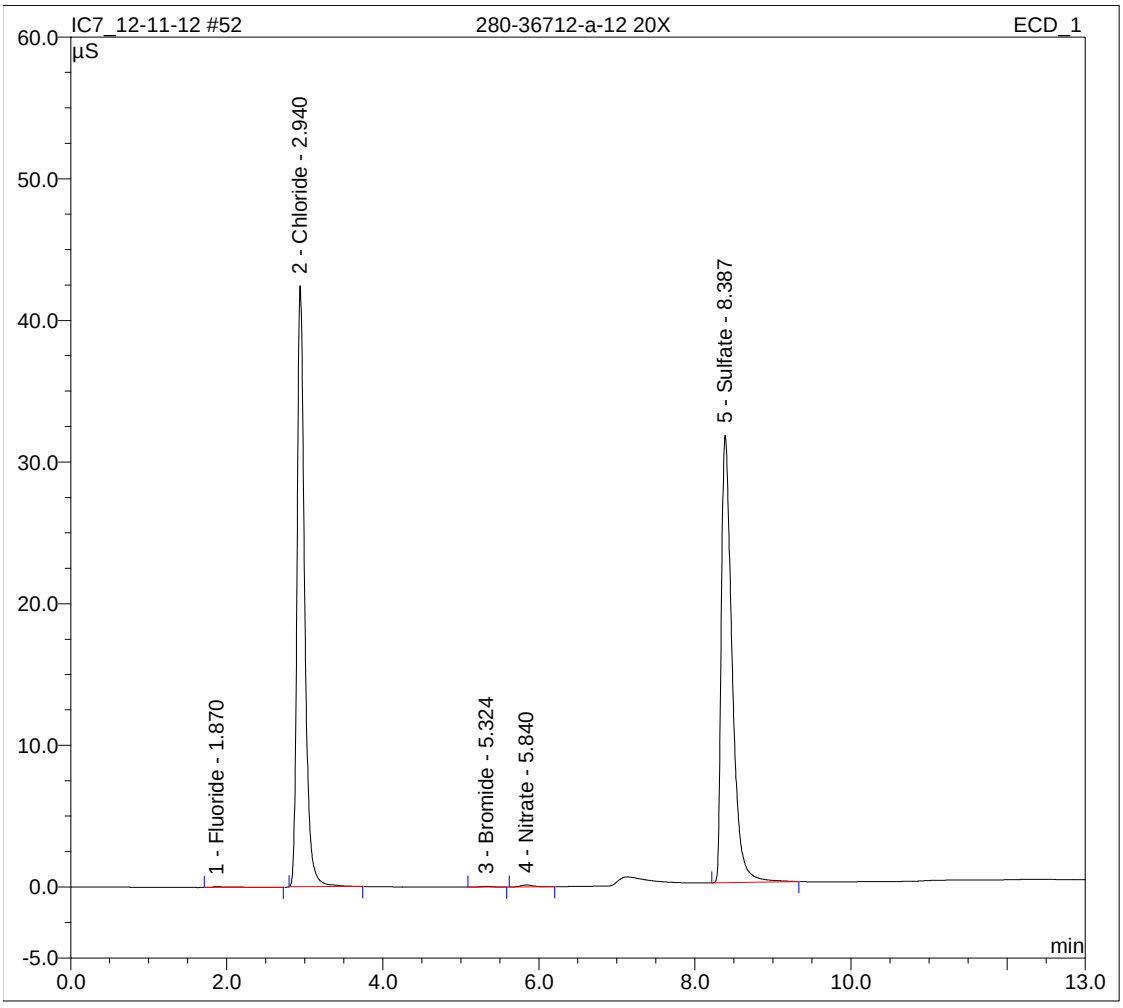
Sample Name:	**280-36712-a-11 20X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**20.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 09:45**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BM	0.024	0.114	2.6812
2	2.94	Chloride	M	5.753	51.082	454.4723
3	3.37	Nitrite	MB	0.096	0.329	2.5500
4	5.32	Bromide	BMB	0.016	0.092	4.4656
5	5.84	Nitrate	BMB	0.051	0.274	2.2731
6	8.40	Sulfate	BMB	4.895	30.512	513.4519
		TOTAL:		10.84	82.40	979.89



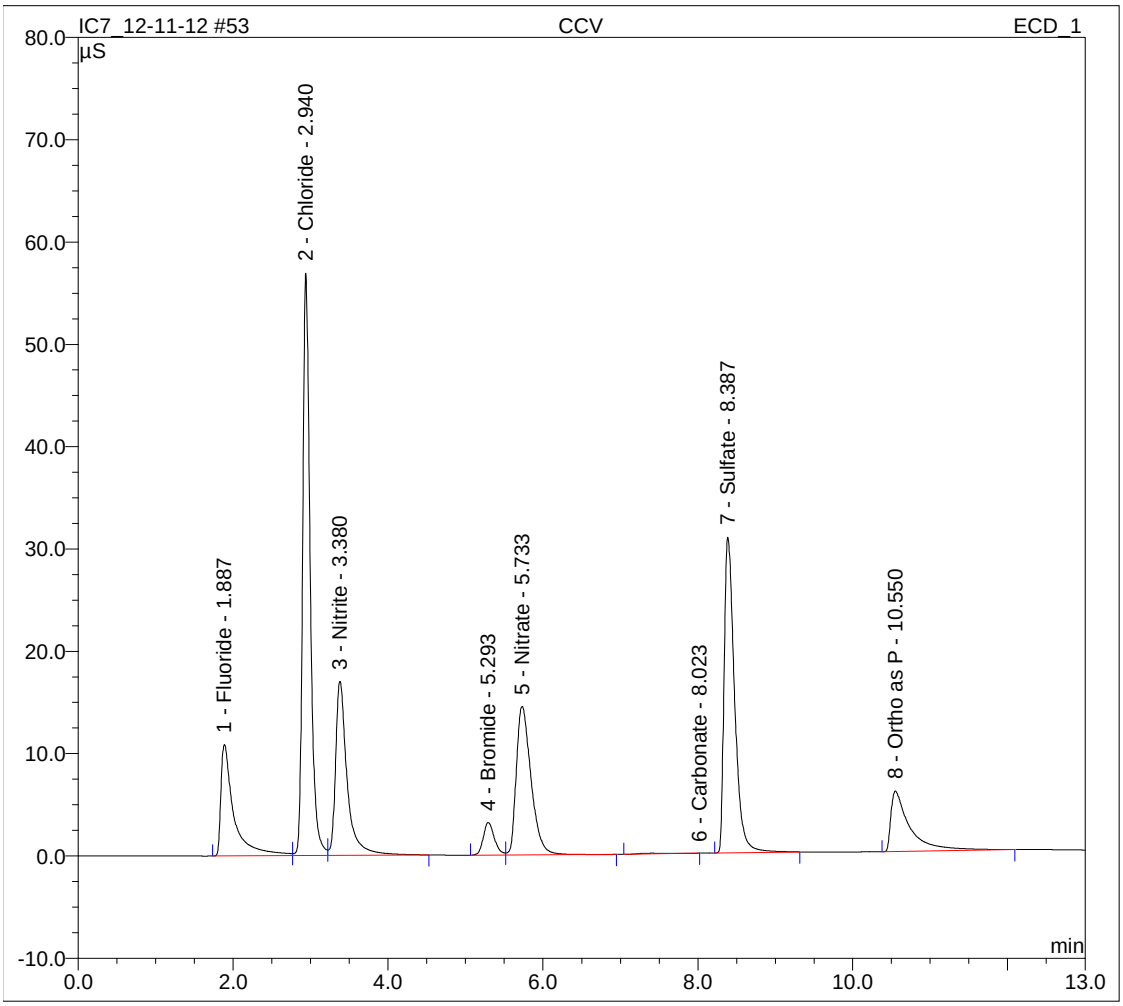
Sample Name:	**280-36712-a-12 20X**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**20.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 10:01**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.87	Fluoride	BMB	0.012	0.051	2.1127
2	2.94	Chloride	BMB	4.798	42.445	378.8712
3	5.32	Bromide	BMB	0.009	0.052	3.1973
4	5.84	Nitrate	BMB	0.026	0.141	1.4759
5	8.39	Sulfate	BMB	5.088	31.595	533.6190
		TOTAL:		9.93	74.28	919.28



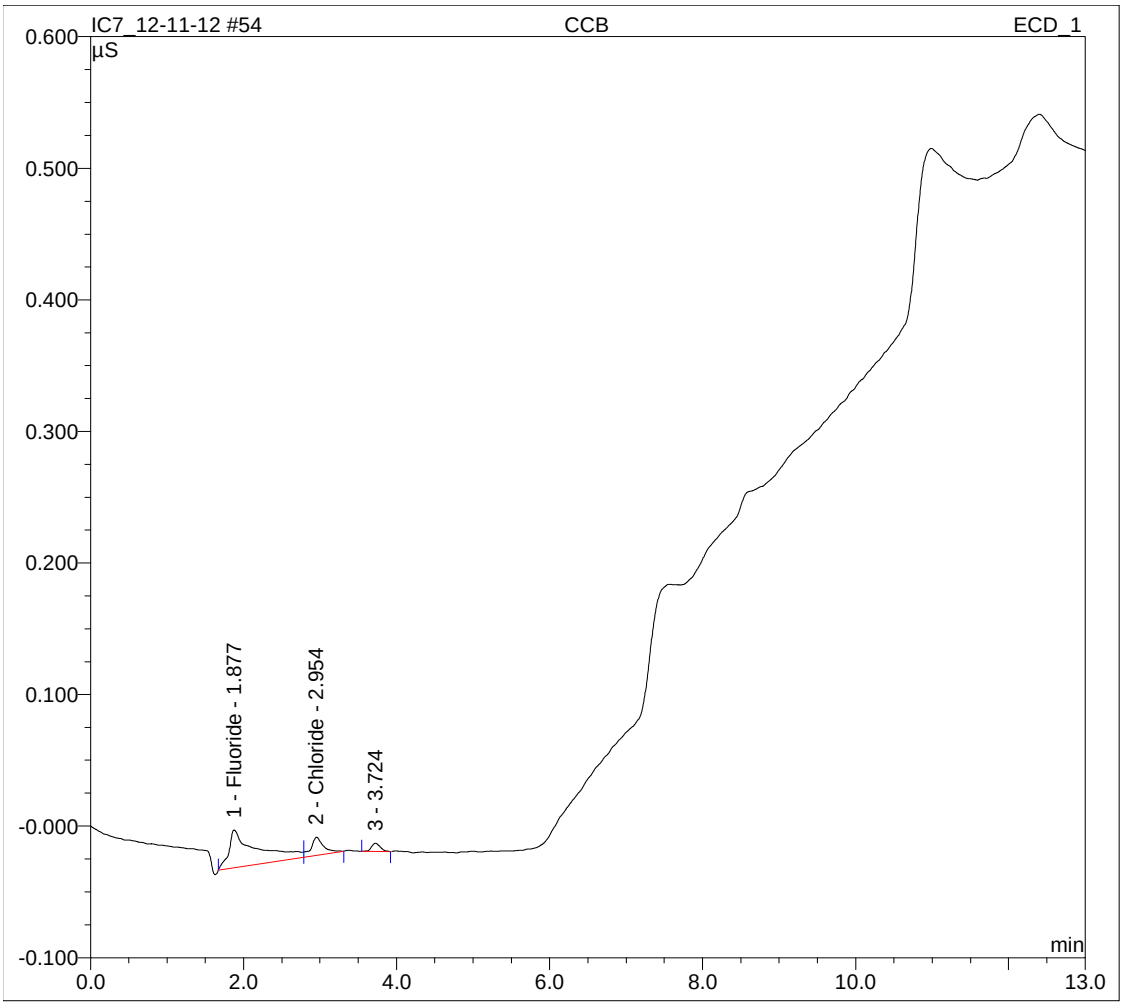
Sample Name:	**CCV**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 10:16**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.89	Fluoride	BM	2.109	10.892	5.0879
2	2.94	Chloride	M	6.405	56.931	25.3062
3	3.38	Nitrite	MB	2.947	16.994	5.1203
4	5.29	Bromide	BM	0.529	3.188	5.0110
5	5.73	Nitrate	MB	3.196	14.501	5.0207
6	8.02	Carbonate	BMB	0.031	0.000	n.a.
7	8.39	Sulfate	BMB	4.840	30.848	25.3823
8	10.55	Ortho as P	BMB	1.682	5.909	5.0865
		TOTAL:		21.74	139.26	76.01



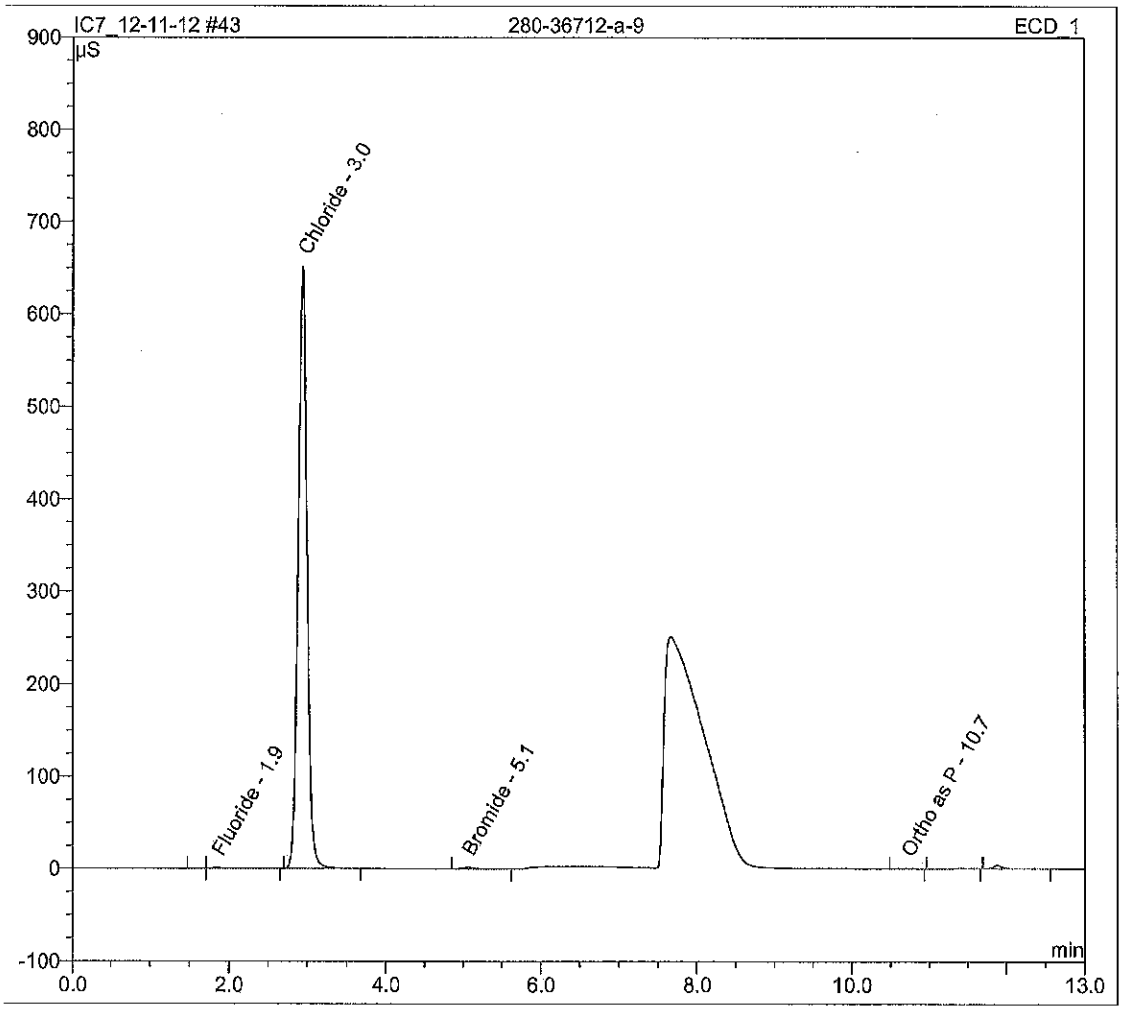
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 10:32**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
1	1.88	Fluoride	BM	0.012	0.029	0.1057
2	2.95	Chloride	MB	0.003	0.014	-0.0457
		TOTAL:		0.01	0.04	0.06



Sample Name:	**280-36712-a-9**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 07:38**	*Run Time:*	**13.00**

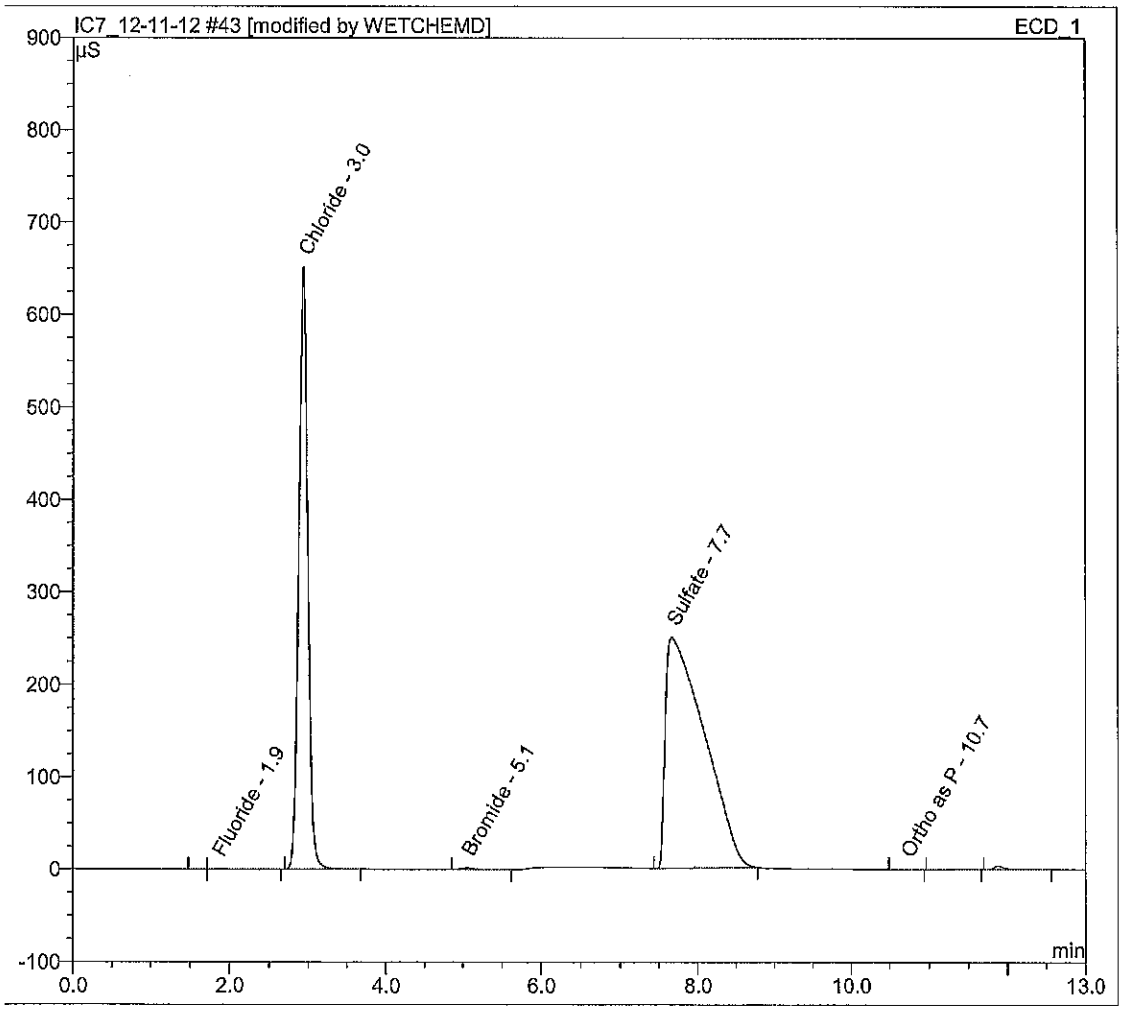
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.85	Fluoride	MB	0.146	0.789	0.4246
3	2.95	Chloride	BMB	85.990	651.228	340.4313
4	5.06	Bromide	BMB	0.245	1.660	2.3588
5	10.71	Ortho as P	BMB	0.057	0.352	0.1090
		TOTAL:		86.44	654.03	343.32



see reprocessed data
12-12-12 CG

Sample Name:	**280-36712-a-9**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 07:38**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.85	Fluoride	MB	0.146	0.789	0.4246
3	2.95	Chloride	BMB	85.990	651.228	340.4313
4	5.06	Bromide	BMB	0.245	1.660	2.3588
5	7.67	Sulfate	BMB*	146.296	249.736	765.5316
6	10.71	Ortho as P	BMB	0.057	0.352	0.1090
		TOTAL:		232.73	903.76	1108.86

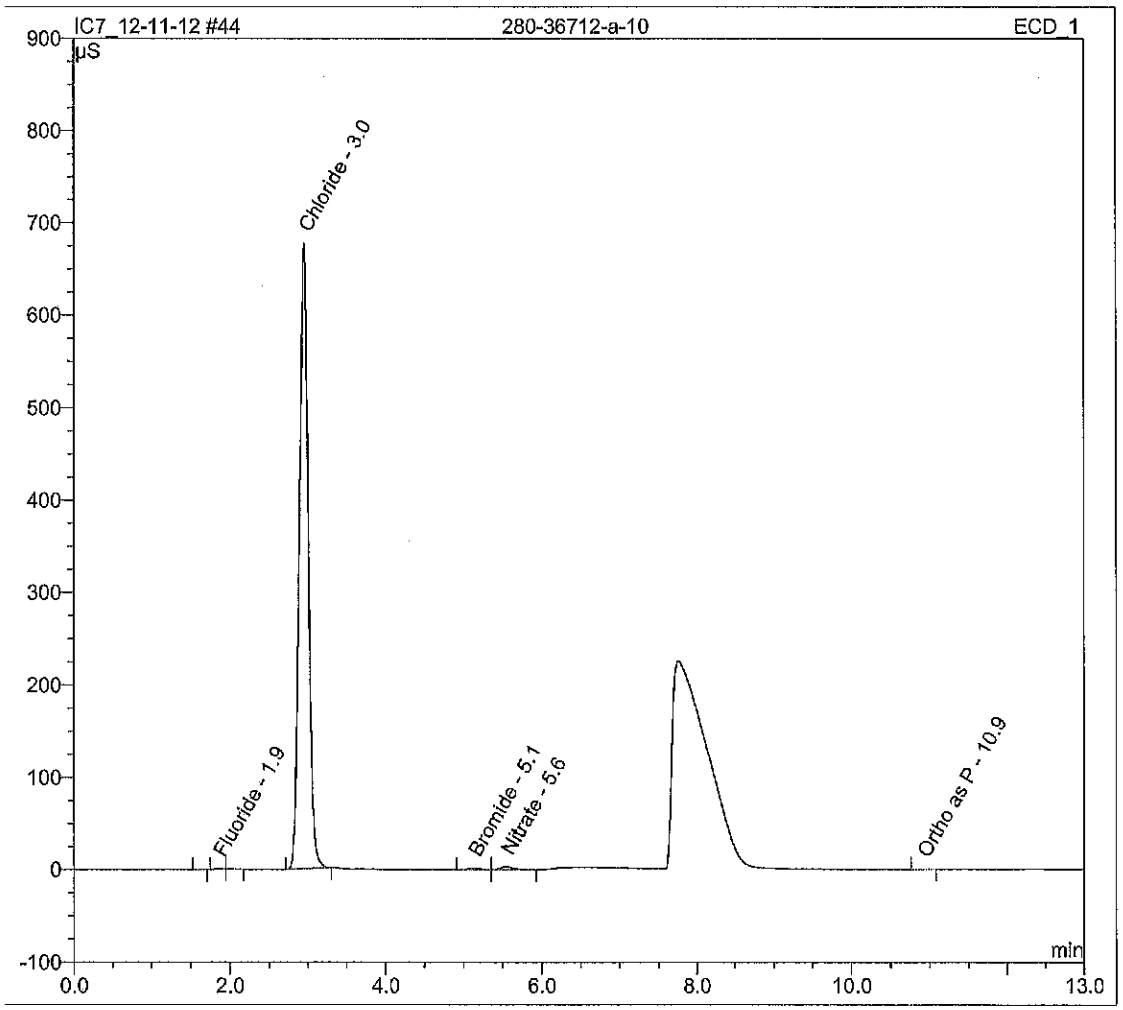


indentified: SO4-2 peak
at RT: 7.7
12-12-12

12/14/12

Sample Name:	**280-36712-a-10**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 07:54**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.86	Fluoride	BMb	0.062	0.609	0.2246
4	2.96	Chloride	BMB	90.495	676.514	358.2687
5	5.13	Bromide	BM	0.234	1.480	2.2620
6	5.55	Nitrate	MB	0.524	3.076	0.8507
7	10.91	Ortho as P	BMB	0.002	0.014	-0.0594
		TOTAL:		91.32	681.69	361.55

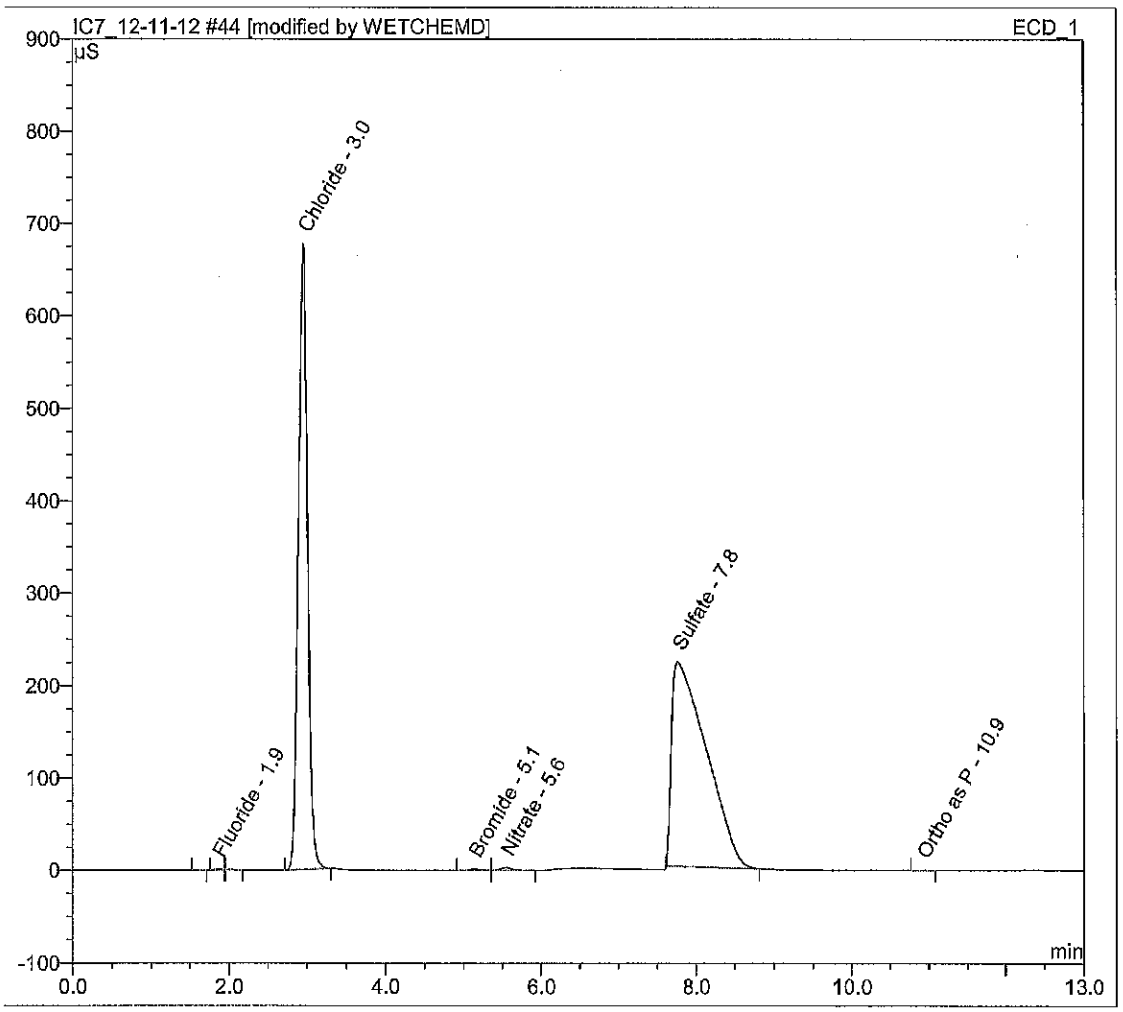


see reprocessed data

12-12-12

Sample Name:	**280-36712-a-10**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 07:54**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.86	Fluoride	BMb	0.062	0.609	0.2246
4	2.96	Chloride	BMB	90.495	676.514	358.2687
5	5.13	Bromide	BM	0.234	1.480	2.2620
6	5.55	Nitrate	MB	0.524	3.076	0.8507
7	7.77	Sulfate	BMB*	114.526	221.237	599.3020
8	10.91	Ortho as P	BMB	0.002	0.014	-0.0594
		TOTAL:		205.84	902.93	960.85

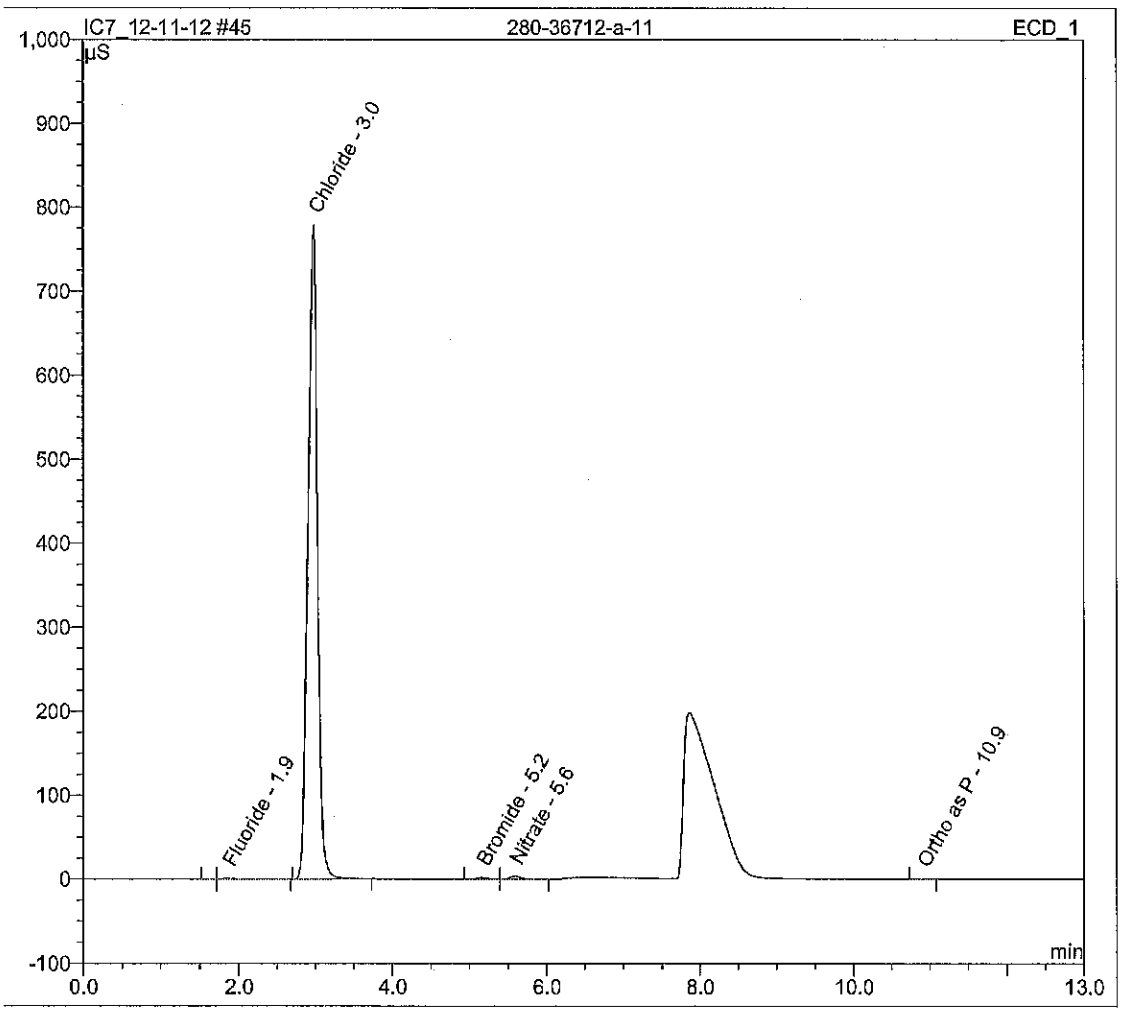


indentified: SO4-2 peak
at RT: 7.8
12-12-12 CG

AB
12/14/12

Sample Name:	**280-36712-a-11**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 08:10**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.86	Fluoride	MB	0.153	0.747	0.4399
3	2.98	Chloride	BMB	111.822	778.249	442.7160
4	5.16	Bromide	BM	0.296	1.867	2.8434
5	5.59	Nitrate	MB	0.611	3.531	0.9870
6	10.90	Ortho as P	BMB	0.001	0.011	-0.0604
		TOTAL:		112.88	784.40	446.93

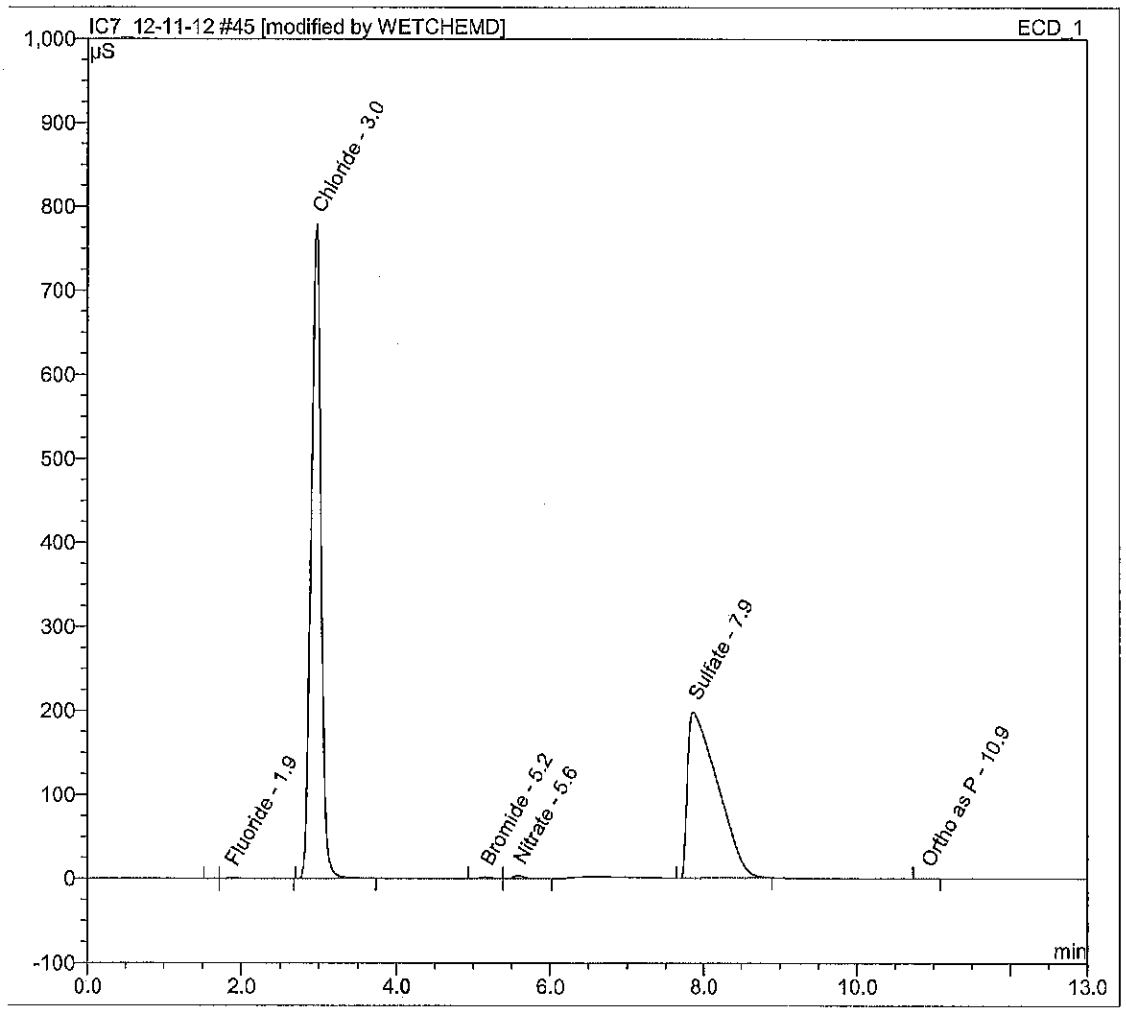


see reprocessed data

12-12-12 CG

Sample Name:	**280-36712-a-11**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 08:10**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.86	Fluoride	MB	0.153	0.747	0.4399
3	2.98	Chloride	BMB	111.822	778.249	442.7160
4	5.16	Bromide	BM	0.296	1.867	2.8434
5	5.59	Nitrate	MB	0.611	3.531	0.9870
6	7.86	Sulfate	BMB*	90.920	197.565	475.7841
7	10.90	Ortho as P	BMB	0.001	0.011	-0.0604
		TOTAL:		203.80	981.97	922.71



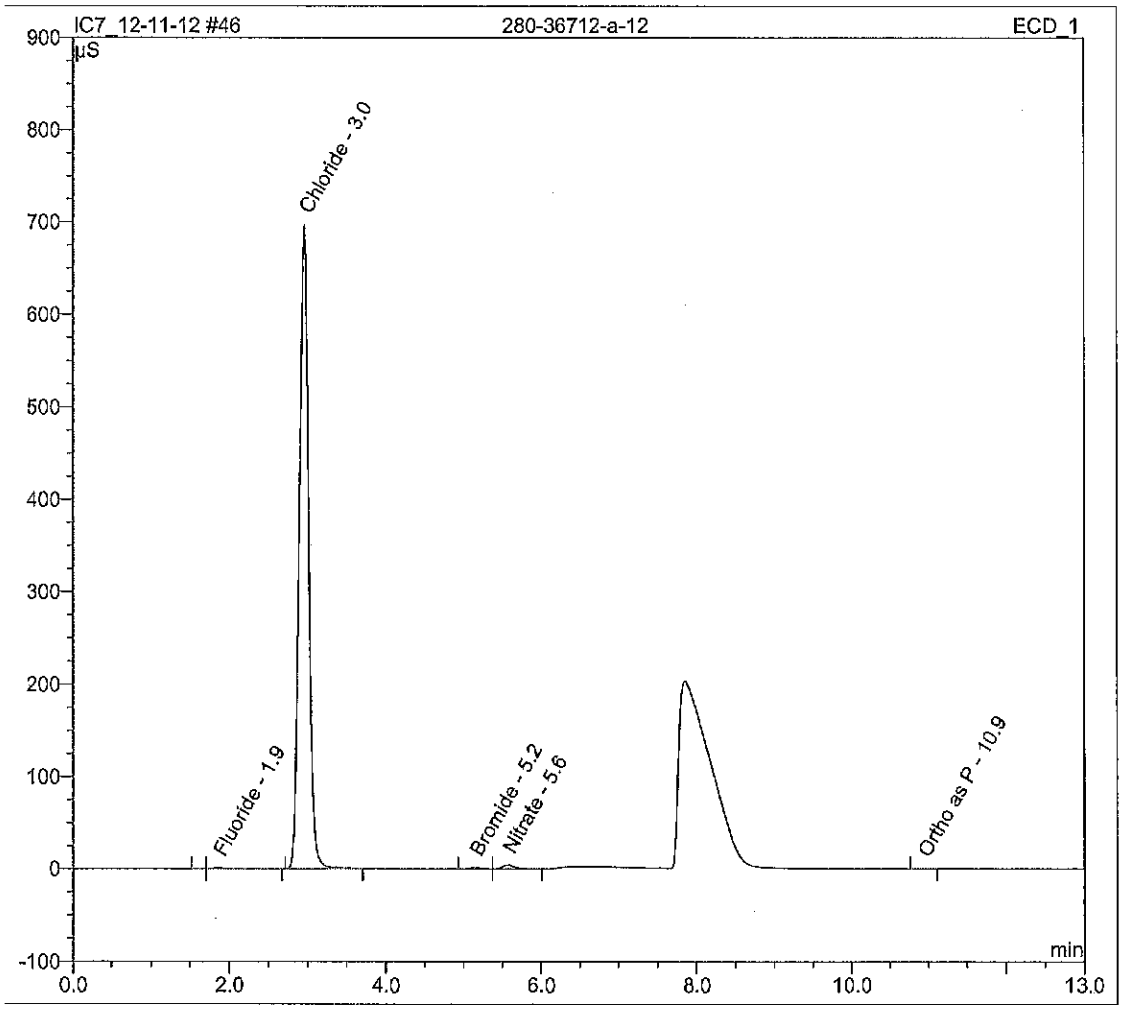
identified: SO4 - 2 peak
at RT: 7.9

12-12-12

AB
12/14/12

Sample Name:	**280-36712-a-12**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 08:26**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.86	Fluoride	MB	0.164	0.839	0.4670
3	2.97	Chloride	BMB	94.460	696.520	373.9665
4	5.15	Bromide	BM	0.241	1.539	2.3261
5	5.57	Nitrate	MB	0.731	4.267	1.1737
6	10.92	Ortho as P	BMB	0.002	0.012	-0.0600
		TOTAL:		95.60	703.18	377.87

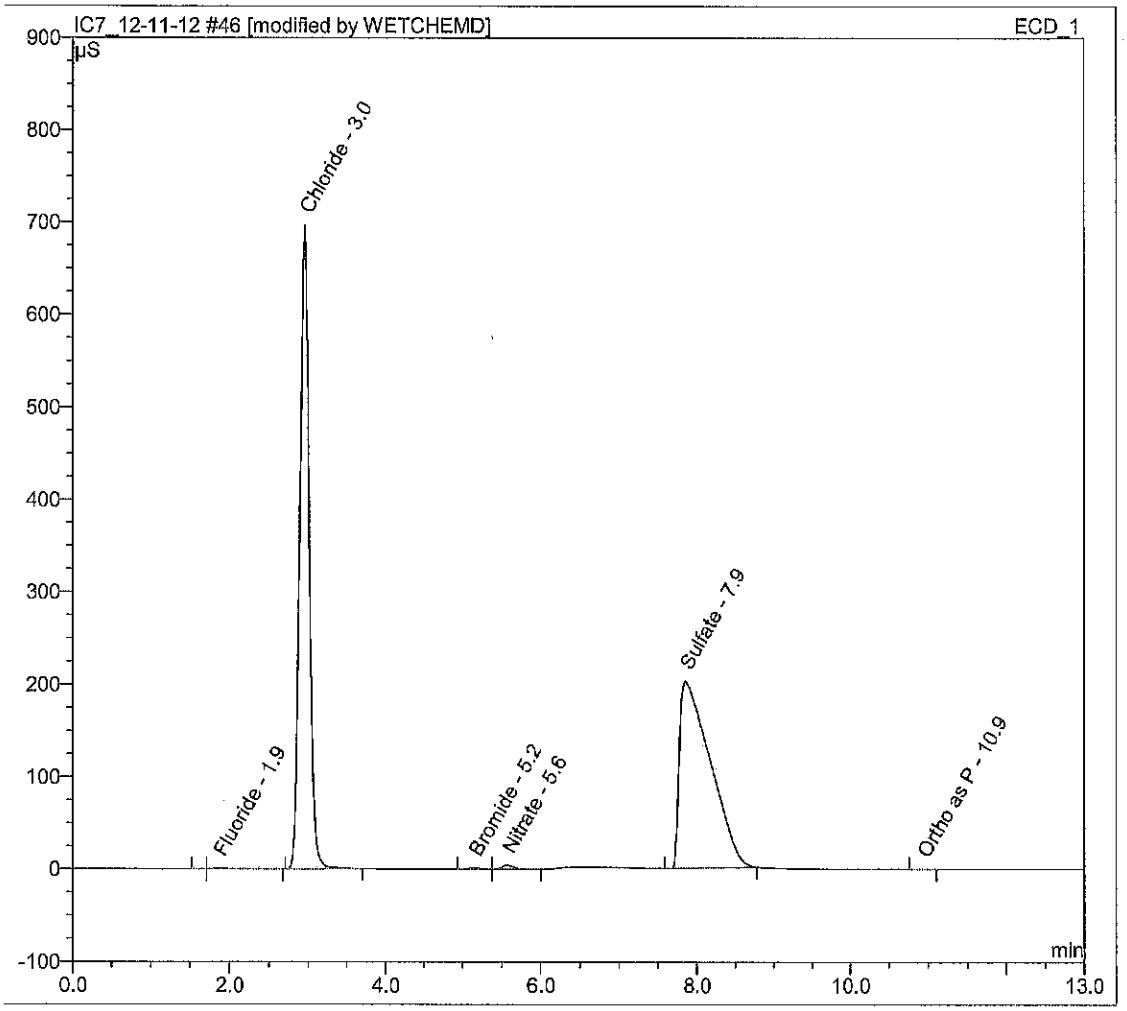


sce reprocessed data

12-12-12 CS

Sample Name:	**280-36712-a-12**	*Inj. Vol.:*	**10.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**as 17 gradient program 09-09-05**	*Weight Factor:*	**1.0000**
Inj. Date/Time:	**12/12/12 08:26**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount mg/L
2	1.86	Fluoride	MB	0.164	0.839	0.4670
3	2.97	Chloride	BMB	94.460	696.520	373.9665
4	5.15	Bromide	BM	0.241	1.539	2.3261
5	5.57	Nitrate	MB	0.731	4.267	1.1737
6	7.85	Sulfate	BMB*	94.716	202.204	495.6494
7	10.92	Ortho as P	BMB	0.002	0.012	-0.0600
		TOTAL:		190.31	905.38	873.52



indentified: SO4-2 peak
at RT: 7.9

12-12-12 CS

AB
12/14/12

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-36712-1

SDG No.:

Batch Number: 151859 Batch Start Date: 12/11/12 07:47 Batch Analyst: Kudla, Ewa

Batch Method: 300.0 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	IC CAL INT1 00187	IC daily cal 00968	IC ICV daily 00968	ICMS/MSD WEEK 00171	
ICV 280-151859/9		300.0					5 mL		
MRL 280-151859/11		300.0		5 mL	0.02 mL				
LCS 280-151859/12		300.0				5 mL			
LCSD 280-151859/13		300.0				5 mL			
CCV 280-151859/24		300.0				5 mL			
CCV 280-151859/36		300.0				5 mL			
280-36559-A-12 MS		300.0	T	5 mL				50 uL	
280-36559-A-12 MSD		300.0	T	5 mL				50 uL	
CCV 280-151859/41		300.0				5 mL			
CCV 280-151859/53		300.0				5 mL			

Batch Notes	
Eluent 1 Lot	120652203010
Filter Lot #	k1ma6962-2317
Pipette ID	wc5000-ic, wc1000-u, wc100-c

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record

Sampler ID _____
Temperature on Receipt 1.1°C
Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
Maverick	Jason Jayroe jason.jayroe@altenv.com	12/4-5/12	170336
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
	970-493-8878 / 970-493-0213		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
		Kay Yoder	
Project Name and Location (State)	**Carrier/Waybill Number**		
Maverick / Farmington, NM			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	HCl	HNO3	H2SO4	NaOH	ZnAc/NaOH	Analysis: VOC 8260	Dissolved Sulfate	Special Instructions/ Conditions of Receipt
MW-18	12/4	1320		X			X	0		X	3		X		
MW-22		1405						0					X		
MW-21		1450						0					X		
MW-20		1530						0					X		
MW-10	↓	1615						0					X		
MW-19	12/5	0950						0					X		
MW-9		0935						0					X		
MW-16		1015						0					X		
MW-17		1100						0					X		
INJ-W		1140						1					X	X	
INJ-S		1215						1					X	X	
INJ-E	↓	1250						1					X	X	

Page 516 of 520

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Std

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	12/5/12	1500	1. Received By	12.6.12	9:30am
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: Fedex Priority overnight

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
Maverick	Jason Jayroe jason.jayroe@acecon.com	12/4-5/12	170337
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 2 of 2
	970-453-8878 / 970 453-0213		
City / State / Zip Code	Site Contact	Lab Contact	
		Khae Yoder	
Project Name and Location (State)	Carrier/Waybill Number		
Maverick / Farmington, NM			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: HCl	HNO3	NaOH	ZnAc/ NaOH	Analysis: VOC 8260	Dissolved Sulfate	Special Instructions/ Conditions of Receipt
INJ-N	12/5	1330		X			1		3		X	X	
DUP-1	"	—		"			1		3		X	X	
TRIP Blank	—	—		X			2				X		

Page 517 of 520

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Std

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.		12/5/12	1500		12.6.12	9:30am
2.						
3.						

Comments: Today Priority Overnight

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
Maverick	Jason Jayroe jason.jayroe@arcadis.com	12/4-5/12	170336
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 2
	970-493-8878 / 970-493-0213		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
		Kay Yoder	
Project Name and Location (State)	**Carrier/Waybill Number**		
Maverick / Farmington, NM			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: # of containers	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: VOC 8260	Dissolved Sulfate	Special Instructions/ Conditions of Receipt
MW-18	12/4	1320		X				0		X	3		X		
MW-22		1405						0					X		
MW-21		1450						0					X		
MW-20		1530						0					X		
MW-10	↓	1615						0					X		
MW-19	12/5	0850						0					X		
MW-9		0935						0					X		
MW-16		1015						0					X		
MW-17		1100						0					X	X	
INJ-W		1140						1					X	X	
INJ-S		1215						1					X	X	
INJ-E	↓	1250						1					X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Std

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	12/5/12	1500	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: Fedex Priority overnight

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Sampler ID _____

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
Maverick	Jason Jayroe jason.jayroe@accenture.com	12/11-5/12	170337
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
	970-493-8878 / 970-493-0213		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
		Kac Yoder	
Project Name and Location (State)	**Carrier/Waybill Number**		
Maverick / Farmington, NM			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Other	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: VOC 8260	Dissolved S. Ward	Special Instructions/ Conditions of Receipt
INJ-N	12/5	1330		X			X	1		X	3		X	X	
DUP-1	"	—		X			X	1		X	3		X	X	
TRIP Blank	—	—		X				2					X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Std

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	12/5/12	1500	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

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April 22, 2014

Jim Griswold
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject: **2013 Annual Groundwater Report, Maverik Country Stores (Former Caribou Refinery), Kirtland, New Mexico**

Dear Mr. Griswold:

This report provides the results of the 2013 Site activities for the Maverik Country Stores site (former Caribou Refinery) in Kirtland, New Mexico (**Figure 1**). These activities were completed during the 2013 calendar year to meet the annual monitoring requirements for the site. The scope of work completed included:

- The installation of 4, 2" diameter injection wells around MW-17;
- The completion of 3 ISCO chemical injections pilot test in the 4 new injection wells;
- Quarterly fluid level measurements of 5 on-site wells;
- Annual fluid level measurements of 25 on-site and off-site wells;
- Quarterly low-flow groundwater sampling of 5 on-site wells (3 quarterly events);
- Annual low-flow groundwater sampling of 13 on-site and off-site wells (1 annual event);
- Quarterly analytical evaluation of volatile organic compounds (VOCs) and dissolved sulfate in groundwater of 5 on-site wells (3 quarterly events); and
- Annual analytical evaluation of VOCs and dissolved sulfate in groundwater of 5 on-site wells and analytical evaluation of VOCs in 8 off-site monitoring wells.

Field methods, results, and the conclusions from the 2013 field events are discussed below.

Injection Well Installation

Four injection wells were installed surrounding monitoring well MW-17. The injection wells were constructed with 2-inch diameter Schedule 40 PVC, drilled to a depth of 15

feet, and screened between 5 and 15 feet below ground surface. Wells were constructed in accordance with 19.27.4 NMAC. Injection wells Inj-North, Inj-East, Inj-South, and Inj-West are shown on **Figure 2**.

ISCO Chemical Injection Pilot Test

The ISCO pilot test consisted of three injection events conducted during January and February, 2013. A total of approximately 445 pounds of Klozur® CR was calculated to treat the target area. Approximately 37.5 pounds of Klozur® CR was mixed with approximately 330 gallons of water, and was injected into each well during each of the three injection events. The Klozur® CR was injected under pressure as a slurry with an estimated radius of influence of approximately 7.5 feet.

Activated persulfate (Klozur® CR) was chosen as the chemical oxidant for injection at the site due to its effectiveness in remediating benzene, toluene, ethyl benzene, and xylene (BTEX). Activated persulfate is a slow but strong oxidant that can be injected to breakdown petroleum compounds, including BTEX. Persulfate is very stable with respect to decomposition in the subsurface, despite being a strong oxidant, which allows it to last, on average, four to eight weeks following injection.

Quarterly Groundwater Sampling

Three quarterly groundwater sampling events were conducted in May, July, and October 2013. Groundwater samples were collected from monitoring well MW-17, and injection wells Inj-North, Inj-East, Inj-South, and Inj-West. Prior to well sampling, fluid levels were measured using an oil/water interface probe. None of the wells contained measurable thicknesses of light non-aqueous phase liquid (LNAPL) during this event. All wells were sampled utilizing a peristaltic pump and flow-through cell. Field parameters measured during the sampling event included pH, specific conductance, dissolved oxygen (DO), oxygen reduction potential (ORP) and temperature. Groundwater samples were sent to eAnalytics in Loveland, Colorado under chain-of-custody (COC) protocol and analyzed for VOCs using EPA Method 8260 and dissolved sulfate using EPA Method 300. Laboratory deliverables are provided in **Attachment A**.

Results of the groundwater sampling are summarized in **Table 2**. The results show that constituents of concern, (BTEX) and 1,2-dichloroethane (1,2 DCA) concentrations are confined within the slurry wall impoundment area (**Figures 3, 4, 5, 6**). Dissolved sulfate was detected in MW-17 and the four injection wells. Benzene was detected in concentrations exceeding the New Mexico Groundwater Standard (10ug/L) at MW-17 on 5/9/2013 but decreases significantly for the remainder of 2013. This is likely a positive result of the ISCO injections conducted earlier in the year. Also, compounds were detected in Inj-North that exceed the New Mexico Groundwater Standard for benzene, xylenes and 1,2–DCA. However, only 1,2-DCA exceeded the New Mexico Groundwater Standard for October and December 2013. Again, this is likely a positive result of the ISCO injections conducted earlier in the year.

Annual Groundwater Sampling

Annual groundwater sampling activities were conducted on December 19 and December 20, 2013. Prior to well sampling, site-wide fluid levels were measured using an oil/water interface probe (**Table 1**) for compilation of the site potentiometric surface map (**Figure 2**). Fluid levels were not obtainable from two of the site wells including:

- MW-04 (has been converted to an irrigation well within a pump house by Mr. Roland Jackson); and
- MW-06 (unable to locate, possibly abandoned or destroyed).

None of the monitoring wells contained measurable thicknesses of LNAPL during this event. Based on the December 2013 groundwater elevations, the groundwater flow direction is to the south-southwest across the site toward the San Juan River. A horizontal gradient was calculated ranging from 0.008 ft/ft near the northern portion site to 0.009 ft/ft the southern portion of the site in the residential area (**Figure 2**). This flow direction is consistent with past monitoring events.

Nine monitoring wells and the four injection wells were sampled as part of the regular annual groundwater sampling event. All wells were sampled utilizing a peristaltic pump and flow-through cell. Groundwater field parameters pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured using a flow through cell and YSI 556 MPS during groundwater sampling. Groundwater samples were sent to eAnalytics in Loveland, Colorado under chain-of-custody (COC) protocol and analyzed for volatile organic compounds (VOCs) using EPA Method 8260. In addition, the groundwater samples taken from MW-17 and the four injection wells were analyzed for dissolved sulfate using EPA Method 300.0. Laboratory deliverables are provided in **Attachment A**.

Results of the groundwater sampling are summarized in **Table 2**. The results show that constituents of concern BTEX and 1,2 DCA concentrations are confined within the slurry wall impoundment area (**Figure 3**). Dissolved sulfate was detected in MW-17 and the four injection wells. VOC concentrations in down-gradient wells (MW-10, MW-19, and MW-20) outside the slurry wall and cross gradient wells (MW-9, MW-16, and MW-21) showed concentrations below the standard analytical reporting limits for BTEX and 1,2 DCA (**Table 2**). The up-gradient well, MW-18, located on the northern edge of the slurry wall showed concentrations below the standard analytical reporting limits for BTEX and 1,2 DCA.

Well MW-21 on the east side of the impoundment has an elevated conductivity level, almost an order of magnitude above other site wells. Well MW-18, on the north side of the impoundment, also revealed an elevated conductivity level, before being purged dry. The elevated conductivity in these wells is presumed to be related to salt solutions that are used and stored at the neighboring property.

Summary and Conclusions

Three ISCO injections were conducted inside the slurry wall surrounding monitoring well MW-17 on the site in January and February, 2013. The quarterly groundwater sampling events were conducted in the area of the ISCO injection in May, July and October 2013. The annual groundwater sampling was completed during the week of December 16th, 2013. Fluid levels were measured in 25 wells to establish groundwater flow conditions. Groundwater flow is to the south-southwest across the site toward the

San Juan River. Groundwater results were below New Mexico Groundwater Standards for all 8260 VOCs with the exception of wells located within the slurry wall impoundment area (MW-17, INJ-North, and MW-22). Groundwater concentrations within the slurry wall contain primarily benzene, xylenes, and 1,2-dichloroethane compounds. The maximum benzene concentrations were 968 µg/L in INJ-North and 58 µg/L in MW-17. Dissolved sulfate concentrations where above New Mexico Groundwater Standards in INJ-North.

The groundwater sampling data suggest that the ISCO injections were successful in decreasing the concentrations of benzene in MW-17. However, constitutes of concern (Benzene and 1,2 DCA) continue to be detected in concentrations above clean up levels in monitoring well MW-22 and injection well Inj-North (Table 3). Overall, the slurry wall impoundment is functioning as designed and no off-site migration of constituents of concern is occurring. However, Maverik will design a second remedial phase to treat the VOC's that persist in MW-22 and Inj-North. The proposed second remedial phase approach will be submitted in a separate letter.

Sincerely,

Jason Jayroe
Project Manager

Tables

Table 1 – Groundwater Elevation Table
Table 2 – Analytical Results Table

Figures

Figure 1 – Site Location Map
Figure 2 – Potentiometric Surface Map, December 2013
Figure 3 – Onsite BTEX Concentration Map, May 2013
Figure 4 – Onsite BTEX Concentration Map, July 2013
Figure 5 – Onsite BTEX Concentration Map, October 2013
Figure 6 – Onsite and Offsite BTEX Concentration Map, December 2013

Attachments

Attachment A – Laboratory Data–

Table 1 Monitoring Well Construction Summary and December 2013 Fluid Levels, Maverik Country Stores, Inc. (Former Caribou Refinery)

Well ID	Completion Date	Total Depth (ft. BGS)	Well Diameter (in.)	Top of Steel Casing Elevation (ft. AMSL)	Top of PVC Casing Elevation (ft. AMSL)	Ground Surface Elevation (ft. AMSL)	Top of Screen (ft. BGS)	Bottom of Screen (ft. BGS)	Screen Length (ft.)	Top of Screen Elevation (ft. AMSL)	Bottom of Screen Elevation (ft. AMSL)	Depth to Groundwater (ft.) December 2013	Product Thickness (ft.)	Groundwater Elevation (ft. AMSL)	Comments
MW-1	1987	21.5	2	5207.79	5207.24	5205.75	11.5	21.5	10	5194.25	5184.25	13.88	NA	5193.36	
MW-2	1987	15	2	5197.10	5196.93	5195.25	5	15	10	5190.25	5180.25	6.56	NA	5190.37	
MW-3	1987	14.5	2	5183.00	5181.46	5181.06	4.5	14.5	10	5176.56	5166.56	2.09	NA	5179.37	Well damaged
MW-4	1987	15	2	5178.41	5177.1	5176.14	5	15	10	5171.14	5161.14	NM	NA	NM	Converted to irrigation well
MW-5	1987	15	2	5175.62	5175.09	5173.67	5	15	10	5168.67	5158.67	6.24	NA	5168.85	
MW-6	1987	15.5	2	5176.40	5176.01	5174.23	5.5	15.5	10	5168.73	5158.73	NM	NA	NM	Well not located
MW-7	1987	15	2	5183.71	5182.84	5181.73	5	15	10	5176.73	5166.73	5.2	NA	5177.64	
MW-8	1987	15	2	5186.00	5185.87	5184.02	5	15	10	5179.02	5169.02	4.61	NA	5181.26	
MW-9	1987	15	2	5191.39	5191.22	5189.33	5	15	10	5184.33	5174.33	7.96	NA	5183.26	
MW-10	1987	12.5	2	5189.80	5189.30	5187.47	2.5	12.5	10	5184.97	5174.97	3.82	NA	5185.48	
MW-11	1987	33	2	5197.26	5197.15	5194.97	23	33	10	5171.97	5161.97	NM	NA	NM	Abandoned 1990
MW-12	1987	12	2	5196.66	5196.19	5194.80	2	12	10	5192.80	5182.80	NM	NA	NM	Abandoned 1990
MW-13	1987	5	2	5187.76	NA	5187.56	0	5	5	5187.56	5182.56	NM	NA	NM	Destroyed
MW-14	1989	6	2	NA	5194.47	5190.70	1	6	5	5189.70	5184.70	6.96	NA	5187.51	
MW-15	1989	6	2	NA	5188.80	5185.40	1	6	5	5184.40	5179.40	4.34	NA	5184.46	
MW-16	1990	13	2	NA	5194.98	5193.74	3	13	10	5190.74	5180.74	6.94	NA	5188.04	
MW-17	1993	15	2	5196.49	5195.91	5193.43	5	15	10	5188.43	5178.43	9.66	NA	5186.25	
MW-18	1993	15	2	5202.27	5201.75	5199.14	5	15	10	5194.14	5184.14	11.27	NA	5190.48	
MW-19	1990	12.5	2	NA	5189.54	5188.28	2.5	12.5	10	5185.78	5175.78	2.89	NA	5186.65	
MW-20	1990	12	2	NA	5191.05	5190.10	2	12	10	5188.10	5178.10	4.29	NA	5186.76	
MW-21	1990	13	2	NA	5194.81	5193.62	3	13	10	5190.62	5180.62	5.5	NA	5189.31	
MW-22	1990	13	2	NA	5195.86	5194.58	3	13	10	5191.58	5181.58	7.07	NA	5188.79	
P-1	1993	8	2	NA	5197.66	5195.74	3	8	5	5192.74	5187.74	7.89	NA	5189.77	
P-2	1993	8	2	NA	5192.32	5190.50	3	8	5	5187.50	5182.50	4.59	NA	5187.73	
P-3	1993	8	2	NA	5193.21	5191.44	3	8	5	5188.44	5183.44	5.11	NA	5188.10	
P-4	1993	8	2	NA	5198.82	5197.06	3	8	5	5194.06	5189.06	9.28	NA	5189.54	
INJ-N	2012	15	2	NA	NA	NA	5	15	10	NA	NA	9.1	NA	NA	
INJ-E	2012	15	2	NA	NA	NA	5	15	10	NA	NA	9.28	NA	NA	
INJ-S	2012	15	2	NA	NA	NA	5	15	10	NA	NA	7.91	NA	NA	
INJ-W	2012	15	2	NA	NA	NA	5	15	10	NA	NA	7.17	NA	NA	

Notes:

AMSL = Above mean sea level
BGS = Below ground surface
NM = Not Measured
NA = Not Applicable
ft =feet
in = inches

Table 2 Groundwater Results, Annually Sampled Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Sample Name	Groundwater Standard*	Injection North				Injection West				Injection South				Injection East			
Date		5/9/2013	7/17/2013	10/18/2013	12/19/2013	5/9/2013	7/17/2013	10/18/2013	12/20/2013	5/9/2013	7/17/2013	10/18/2013	12/20/2013	5/9/2013	7/17/2013	10/18/2013	12/19/2013
Analyte		ug/L				ug/L				ug/L				ug/L			
Benzene	10	**968**	**14**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	NS	**183**	**6**	<1	**1**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl-Benzene	750	**153**	**11**	**1**	**7**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylenes	100	**1650**	**144**	**12**	**72**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	10	**4**	**13**	**27**	**23**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dis. Sulfate	6000000	**4580000**	**6560000**	**2315000**	**1792000**	**4560000**	**4320000**	**889000**	**1359000**	**1190000**	**880000**	**442000**	**1284000**	**2410000**	**240000**	**607000**	**462000**

Sample Name	Groundwater Standard*	MW-17				MW-117 (MW-17 Dup)				MW-22
Date		5/9/2013	7/17/2013	10/18/2013	12/19/2013	5/9/2013	7/17/2013	10/18/2013	12/19/2013	12/20/2013
Analyte		ug/L				ug/L				ug/L
Benzene	10	**55**	**3**	<1	**2**	**58**	**2**	<1	**2**	**37**
Toluene	NS	**10**	<1	<1	<1	**12**	<1	<1	<1	<1
Ethyl-Benzene	750	**26**	<1	<1	**2**	**28**	<1	<1	**2**	**1**
Total Xylenes	100	**81**	**8**	<1	**3**	**78**	**8**	<1	**3**	<1
1,2-DCA	10	<1	<1	<1	<1	<1	<1	<1	<1	**1**
Dis. Sulfate	6000000	**2910000**	**1680000**	**365000**	**677000**	**2890000**	**1760000**	**358000**	**703000**	NA

Sample Name	Groundwater Standard*	MW-10	MW-18	MW-19	MW-20	MW-21
Date		12/20/2013	12/20/2013	12/20/2013	12/20/2013	12/20/2013
Analyte		ug/L	ug/L	ug/L	ug/L	ug/L
Benzene	10	<1	<1	<1	<1	<1
Toluene	NS	<1	<1	<1	<1	<1
Ethyl-Benzene	750	<1	<1	<1	<1	<1
Total Xylenes	100	<1	<1	<1	<1	<1
1,2-DCA		<1	<1	<1	<1	<1
Dis. Sulfate	6000000	<1	<1	<1	<1	<1

Sample Name	Groundwater Standard*	MW-9	MW-16
Date		12/20/2013	12/20/2013
Analyte		ug/L	ug/L
Benzene	10	<1	<1
Toluene	NS	<1	<1
Ethyl-Benzene	750	<1	<1
Total Xylenes	100	<1	<1
1,2-DCA	10	<1	<1
Dis. Sulfate	6000000	<1	<1

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103

NS - No Standard

J - Estimated result. Result is less than RL

U - Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

Bold - Detected result

Highlighted - Result Exceeds New Mexico Groundwater Standard

LEGEND

MW-2 MONITORING WELL

P1 PIEZOMETER

E. Gray PRIVATE WELL

SLURRY WALL

MAVERIK CARIBOU FORMER REFINERY BOUNDARY

WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

Co. Road 6257

Co. Road 6261

Co. RoadD 6255

Co. RoadD 6259

Co. RoadD 6263

Co. RoadD 6271

U.S. Highway 64

Road

Co. Road 6100

E. Mclemore

E. Gray

J.L. Flack

R. Neff

G. Curley

I. Hall

G. Nelson

R. Jackson

A. Jackson

Ryan

MW-4

MW-5

WM. H. Walker

M. Stone

(Out of Service)

MW-1 MW-2 MW-3 MW-4 MW-5 MW-7 MW-8 MW-9 MW-10 MW-14 MW-15 MW-16 MW-17 MW-18 MW-19 MW-20 MW-21 MW-22

P1 P2 P3 P4

WESTSIDE IRRIGATION DITCH

MURRAY PROPERTY DITCH

DITCH IS FILLED IN AT THIS LOCATION

FARMER'S MUTUAL IRRIGATION DITCH

100 0 200

SCALE IN FEET

TRC	2013 ANNUAL GROUNDWATER REPORT MAVERIK CARIBOU FORMER REFINERY KIRKLAND, NEW MEXICO	SITE LOCATION MAP DECEMBER 2013
	DATE: 04/03/2014 DRWN: ERH	FIGURE 1

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\209783 Fig. 1 Site Location Map.dwg Layout: FIGURE 1 User: ehaverl Plotted: Apr 08, 2014 - 5:01pm Xref's:

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\209823 Fig. 2 Potentiometric Surface Map.dwg Layout: FIGURE 2 User: ehoverl Plotted: Apr 08, 2014 - 5:02pm Xref's:

LEGEND

- MW-2 — MONITORING WELL
- P1 — PIEZOMETER
- INJ-W — INJECTION WELL
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION
- 5176 — GROUNDWATER CONTOURS

W.O. York Jr.
Co. Road 6257
G. Curley
I. Hull
E. Mclemore
J.L. Flack
Co. RoadD 6259
Co. Road 6261
Co. RoadD 6263
Co. RoadD 6271
C. Nelson
R. Jackson
A. Jackson
Ryan
WM. H. Walker
M. Stone
(Out of Service)
U.S. Highway 64
CO. Road 6100
Road

MW-1 5193.36
MW-2 5190.37
MW-3 5179.37
MW-4 NM
MW-5 5168.85
MW-7 5177.64
MW-8 5181.26
MW-9 5183.26
MW-10 5185.48
MW-12 5186.25
MW-13 5190.82
MW-14 5187.51
MW-15 5184.46
MW-16 5188.04
MW-19 5186.65
MW-20 5186.76
MW-21 5189.31
MW-22 5188.79
P1 5189.77
P2 5187.73
P3 5188.10
P4 5189.54
INJ-N
INJ-S
INJ-E

GW Flow Direction

WESTSIDE IRRIGATION DITCH
DITCH IS FILLED IN AT THIS LOCATION
MURRAY PROPERTY DITCH
DITCH IS FILLED IN AT THIS LOCATION
FARMER'S MUTUAL IRRIGATION DITCH

5193 5192 5191 5190 5189 5188 5187 5186 5185 5184 5183 5182 5181 5180 5179 5178 5177 5176 5175 5174 5173 5172 5171 5170 5169

100 0 200
SCALE IN FEET

TRC

2013 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

DATE: 04/03/2014 | DRWN: ERH

POTENTIOMETRIC SURFACE MAP
DECEMBER 2013

FIGURE 2

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\209783 Fig. 3 On-site BTEX Concentration Map.dwg Layout: FIG 3 MAY 2013 User: ehoverl Plotted: Apr 08, 2014 - 5:03pm Xref's:

INJ-W (Within Slurry Wall)	
	5/9/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

MW-17 (Within Slurry Wall)	
	5/9/13
Benzene	58
Ethylbenzene	28
Total Xylenes	81
Toluene	12

INJ-N (Within Slurry Wall)	
	5/9/13
Benzene	968
Ethylbenzene	153
Total Xylenes	1650
Toluene	183

INJ-S (Within Slurry Wall)	
	5/9/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

INJ-E (Within Slurry Wall)	
	5/9/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

Co. RoadD 6255
Co. RoadD 6259
Co. RoadD 6263
Co. RoadD 6271
Co. Road 6261
Co. Road 6100
U.S. Highway 64
E. Mclemore
E. Gray
R. Neff
J. Hall
Flack
G. Curley
G. Nelson
R. Jackson
A. Jackson
Ryan
WM. H. Walker
M. Stone
MW-1 5193.36
MW-2
MW-21 5189.31
MW-20 5186.76
MW-15 5184.46
MW-10 5185.48
MW-3 5179.37
MW-18 5190.82
MW-22 5188.79
MW-13 5186.25
P1 5189.77
P2 5187.73
P3 5188.10
P4 5189.54
MW-19 5186.65
MW-16 5188.04
MW-14 5187.51
MW-9 5183.26
MW-7 5177.64
MW-8 5181.26
WESTSIDE IRRIGATION DITCH
FARMER'S MUTUAL IRRIGATION DITCH
MURRAY PROPERTY DITCH
DITCH IS FILLED IN AT THIS LOCATION
DITCH IS FILLED IN AT THIS LOCATION
Road

100 0 200
SCALE IN FEET

LEGEND

- MW-2 MONITORING WELL
- P1 PIEZOMETER
- E. Gray PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

ALL RESULTS ARE IN MICROGRAMS PER LITER (µg/L)
J - ESTIMATED CONCENTRATION

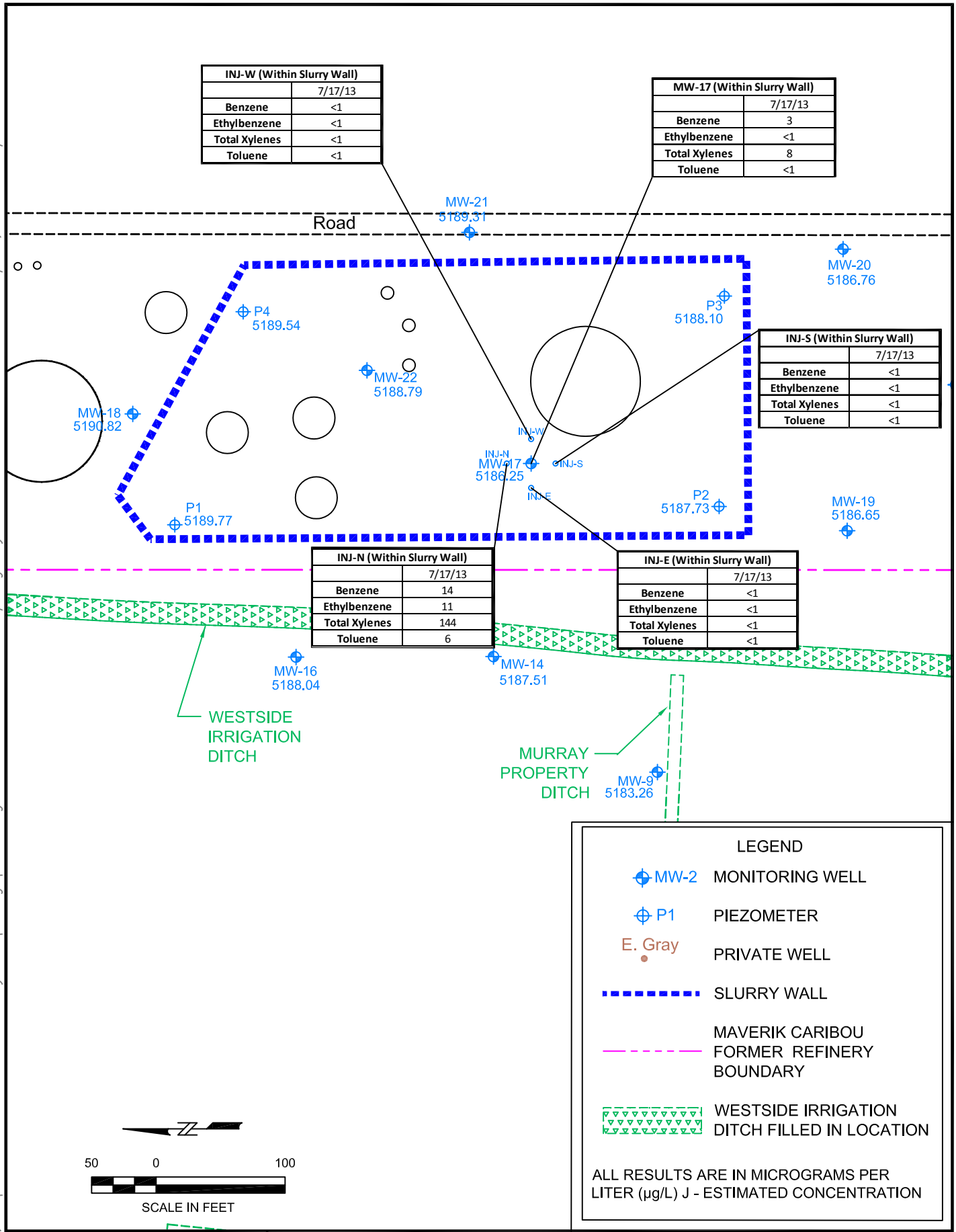
TRC

2013 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

DATE: 04/03/2014 DRWN: ERH

ONSITE BTEX CONCENTRATION MAP
MAY 2013

FIGURE 3



TRC

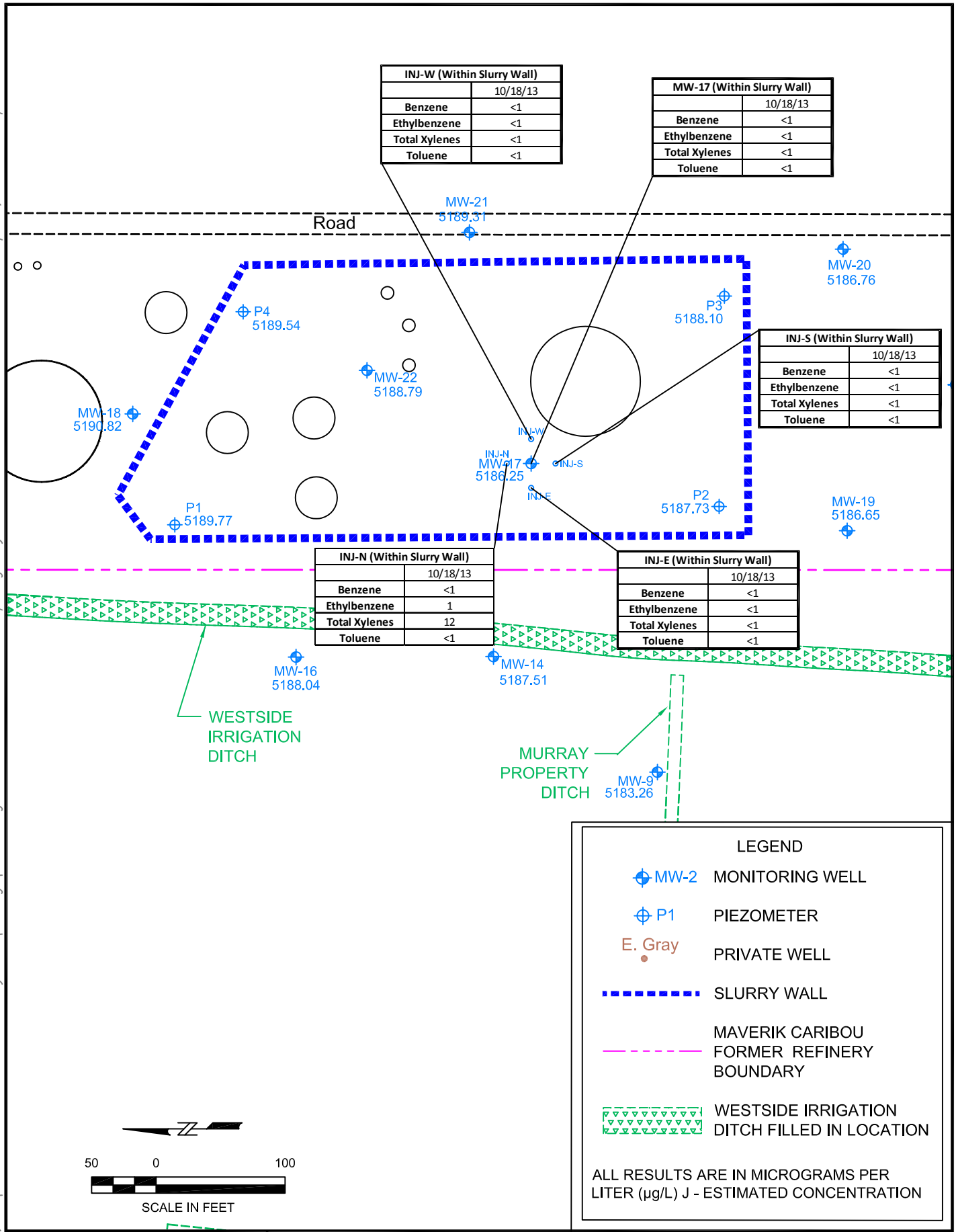
DATE: 04/03/2014 DRWN: ERH

2013 ANNUAL
GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

ONSITE BTEX
CONCENTRATION MAP
JULY 2013

FIGURE 4

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\209783 Figs 4-5 Onsite BTEX Concen. Maps.dwg Layout: FIG 4 JULY User: ehaverl Plotted: Apr 08, 2014 - 4:59pm Xref's:



TRC

DATE: 04/03/2014 DRWN: ERH

2013 ANNUAL
GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

ONSITE BTEX
CONCENTRATION MAP
OCTOBER 2013

FIGURE 5

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\209783 Figs 4-5 Onsite BTEX Concen. Maps.dwg Layout: FIG 5 OCT 2013 User: ehaverl Plotted: Apr 08, 2014 - 5:00pm Xref's:

INJ-W (Within Slurry Wall)	
	12/20/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

MW-17 (Within Slurry Wall)	
	12/19/13
Benzene	2
Ethylbenzene	2
Total Xylenes	3
Toluene	<1

MW-20 (On-Site)	
	12/20/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

MW-21 (On-Site)	
	12/20/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

MW-10 (On-Site)	
	12/20/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

MW-22 (Within Slurry Wall)	
	12/20/13
Benzene	37
Ethylbenzene	1
Total Xylenes	<1
Toluene	<1

INJ-N (Within Slurry Wall)	
	12/19/13
Benzene	<1
Ethylbenzene	7
Total Xylenes	72
Toluene	1

MW-18 (On-Site)	
	12/20/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

INJ-S (Within Slurry Wall)	
	12/20/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

MW-16 (Off-Site)	
	12/20/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

INJ-E (Within Slurry Wall)	
	12/19/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

MW-19 (On-Site)	
	12/20/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

MW-9 (Off-Site)	
	12/20/13
Benzene	<1
Ethylbenzene	<1
Total Xylenes	<1
Toluene	<1

Co. RoadD 6255

Co. Road 6257

Co. Road 6259

Co. Road 6263

Co. RoadD 6271

Co. Road 6100

U.S. Highway 64

E. Mclemore

E. Gray

R. Neff

G. Curley

T. Hall

L. Flack

G. Nelson

R. Jackson

A. Jackson

Ryan

WM. H. Walker

M. Stone

MW-2
5189.31

MW-21
5189.31

MW-20
5186.76

MW-15
5184.46

MW-10
5185.48

P4
5189.54

P3
5188.10

MW-22
5188.79

MW-18
5190.82

MW-13
5186.25

P1
5189.77

P2
5187.73

MW-19
5186.65

MW-3
5179.37

MW-16
5188.04

MW-14
5187.51

MW-9
5183.26

MW-7
5177.64

MW-8
5181.26

WESTSIDE IRRIGATION DITCH

DITCH IS FILLED IN AT THIS LOCATION

MURRAY PROPERTY DITCH

FARMER'S MUTUAL IRRIGATION DITCH

100 0 200

SCALE IN FEET

LEGEND

MW-2 MONITORING WELL

P1 PIEZOMETER

E. Gray PRIVATE WELL

SLURRY WALL

MAVERIK CARIBOU FORMER REFINERY BOUNDARY

WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

ALL RESULTS ARE IN MICROGRAMS PER LITER (µg/L)
J - ESTIMATED CONCENTRATION

TRC

2013 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

DATE: 04/09/2014 DRWN: ERH

ONSITE BTEX CONCENTRATION MAP
DECEMBER 2013

FIGURE 6

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\209783 Fig. 6 On-site BTEX Map Dec 2013.dwg Layout: FIG 6 DEC INFO User: ehaverl Plotted: Apr 08, 2014 - 4:57pm Xref's:

Certificate of Analysis

eANALYTICS LABORATORY

May 15, 2013

Client: AECOM
1601 Prospect Pkwy
Fort Collins, CO 80521

Project: Maverik

Lab ID: 051306

Date Received: 05/13/13

Number of Samples Received: 7

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

Analysis	EPA Method	Lab ID on COC
BTEX / 1,2-DCA	8260C	1 - 7
Dissolved Sulfate	300.0	1 - 7

All quality control analyses associated with the requested analyses were satisfactorily passed before the samples were run. If you have any questions please give us a call, we are happy to help.

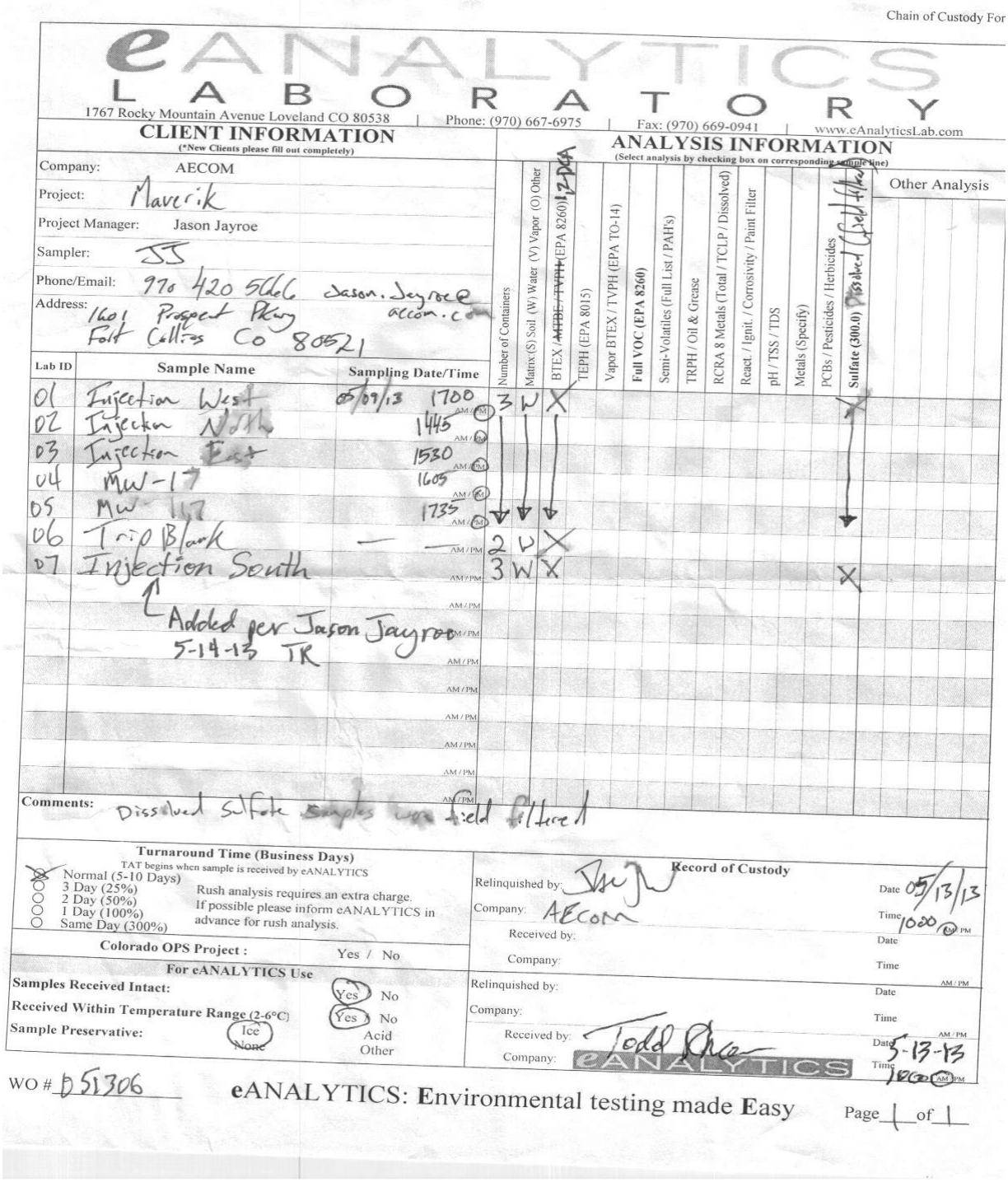
Thank you for allowing eAnalytics Laboratory to provide laboratory services for you, we truly appreciate your business.

Sincerely,

Christopher Dieken
Quality Assurance Manager
eAnalytics Laboratory
(970) 667-6975
info@eAnalyticsLab.com

Certificate of Analysis

Chain of Custody | eANALYTICS LABORATORY | **May 15, 2013**



Chain of Custody For

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION
(*New Clients please fill out completely)

Company: AECOM
Project: Maverik
Project Manager: Jason Jayroe
Sampler: JJ
Phone/Email: 970 420 5066 Jason.Jayroe@aecom.com
Address: 1601 Prospect Pkwy Fort Collins CO 80521

ANALYSIS INFORMATION
(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTEX / MTBE / TVPH (EPA 8260)	TEPH (EPA 8015)	Vapor BTEX / TVPH (EPA TO-14)	Full VOC (EPA 8260)	Semi-Volatiles (Full List / PAH's)	TRPH / Oil & Grease	RCRA 8 Metals (Total / TCLP / Dissolved)	React. / Ignit. / Corrosivity / Paint Filter	pH / TSS / TDS	Metals (Specify)	PCBs / Pesticides / Herbicides	Sulfate (300.0) Dissolved (Field Filtered)	Other Analysis
01	Injection West	05/09/13 1700 AM/PM	3	W	X											X	
02	Injection North	1445 AM/PM															
03	Injection East	1530 AM/PM															
04	MW-17	1605 AM/PM															
05	MW-17	1735 AM/PM															
06	Trip Blank	— — AM/PM	2	V	X												
07	Injection South	AM/PM	3	W	X											X	

Added per Jason Jayroe 5-14-13 TR

Comments: Dissolved Sulfate Samples were field filtered

Turnaround Time (Business Days)
TAT begins when sample is received by eANALYTICS
(X) Normal (5-10 Days)
( ) 3 Day (25%)
( ) 2 Day (50%)
( ) 1 Day (100%)
( ) Same Day (300%)
Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.

Colorado OPS Project : Yes / No

For eANALYTICS Use
Samples Received Intact: (Yes) No
Received Within Temperature Range (2-6°C) (Yes) No
Sample Preservative: (Ice) None Acid Other

Record of Custody
Relinquished by: [signature] Date 05/13/13
Company: AECOM Time 1000 AM/PM
Received by: Date
Company: Time
Relinquished by: Date
Company: Time
Received by: Todd Shaw Date 5-13-13
Company: eANALYTICS Time 1000 AM/PM

WO # D51306

eANALYTICS: Environmental testing made Easy

Page 1 of 1

Certificate of Analysis

Sample Analysis — **May 15, 2013**

eANALYTICS LABORATORY

Client: AECOM
1601 Prospect Pkwy
Fort Collins, CO 80521

Project: Maverik

Lab ID: 051306

Matrix: WATER
Batch ID: EA 05-13-13

EPA Method: 8260C BTEX / 1,2-DCA
300.0 Dissolved Sulfate

Sample Name	Benzene mg/L	Toluene mg/L	Ethyl-Benzene mg/L	Total Xylenes mg/L	1,2-DCA mg/L	Dis. Sulfate mg/L	Date Sampled	Date Analyzed	Lab ID
Injection West	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	4560	05/09/13	05/13/13	051306-01
Injection North	0.968	0.183	0.153	1.65	0.004	4580	05/09/13	05/13/13	051306-02
Injection East	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	2410	05/09/13	05/13/13	051306-03
MW-17	0.055	0.010	0.026	0.081	< 0.001	2910	05/09/13	05/13/13	051306-04
MW-117	0.058	0.012	0.028	0.078	< 0.001	2890	05/09/13	05/13/13	051306-05
Trip Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		05/09/13	05/13/13	051306-06
Injection South	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	1990	05/09/13	05/13/13	051306-07

Todd Rhea

Laboratory Manager - eAnalytics Laboratory

Certificate of Analysis

Surrogate Recoveries (%)

eANALYTICS LABORATORY

May 15, 2013

Client: AECOM
1601 Prospect Pkwy
Fort Collins, CO 80521

Project: Maverik

Lab ID: 051306

EPA Method: 8260C

Sample Name	Dibromofluoromethane (70-130%)	1,2-Dichloroethane-D4 (70-130%)	Toluene-D8 (70-130%)	Bromofluorobenzene (70-130%)	Date Sampled	Date Analyzed	Lab ID
Injection West	103	91	98	93	05/09/13	05/13/13	051306-01
Injection North	101	101	92	103	05/09/13	05/13/13	051306-02
Injection East	98	99	96	93	05/09/13	05/13/13	051306-03
MW-17	103	94	100	96	05/09/13	05/13/13	051306-04
MW-117	93	92	102	97	05/09/13	05/13/13	051306-05
Trip Blank	97	101	93	100	05/09/13	05/13/13	051306-06
Injection South	102	98	103	98	05/09/13	05/13/13	051306-07

Todd Rhea

Laboratory Manager - eAnalytics Laboratory

Certificate of Analysis

Quality Control Analysis

eANALYTICS LABORATORY

May 15, 2013

Client: AECOM
1601 Prospect Pkwy
Fort Collins, CO 80521

Project: Maverik

Lab ID: 051306

Matrix: WATER
Batch ID: EA 05-13-13

EPA Method: 8260C
300.0

BTEX / 1,2-DCA
Dissolved Sulfate

Sample Name	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	1,2-DCA	Dis. Sulfate		Date Analyzed	Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
LCS	96	96	91	96	103	93		05/13/13	L 05/13/13
(70-130%)									
CCV	93	94	97	97	105			05/13/13	C 05/13/13
(80-120%)									
Reagent Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.5		05/13/13	RB 05/13/13
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			

Todd Rhea

Laboratory Manager - eAnalytics Laboratory

Certificate of Analysis

eANALYTICS LABORATORY

July 19, 2013

Client: AECOM
1601 Prospect Pkwy
Fort Collins, CO 80521

Project: Maverik

Lab ID: 071801

Date Received: 07/18/13

Number of Samples Received: 7

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

Analysis	EPA Method	Lab ID on COC
BTEX / 1,2-DCA	8260C	1 - 7
Dissolved Sulfate	300.0	1 - 6

All quality control analyses associated with the requested analyses were satisfactorily passed before the samples were run. If you have any questions please give us a call, we are happy to help.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you, we truly appreciate your business.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

eAnalytics Laboratory
(970) 667-6975
info@eAnalyticsLab.com

Certificate of Analysis

Chain of Custody | **July 19, 2013**

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION
(*New Clients please fill out completely)

Company:	AECOM
Project:	Maverik
Project Manager:	Jason Jayroe
Sampler:	Jason Jayroe
Phone/Email:	970-420-5666 / Jason.Jayroe@AECOM.com
Address:	1601 Prospect Parkway Fort Collins CO 80521

ANALYSIS INFORMATION
(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTEX & 1,2-DCA (EPA 8260)	Dissolved Sulfate (EPA 300.3)
01	Injection West	07/17/13 1135 AM / PM	3	W	X	X
02	Injection North	1340 AM / PM				
03	Injection East	1220 AM / PM				
04	MW-17	1045 AM / PM				
05	MW-117	1400 AM / PM				
06	Injection South	1300 AM / PM				
07	Trip blank	AM / PM	1			

Comments:

Turnaround Time (Business Days)
TAT begins when sample is received by eANALYTICS

- ○ Normal (5-10 Days)
- ○ 3 Day (25%)
- ○ 2 Day (50%)
- ○ 1 Day (100%)
- ○ Same Day (300%)

Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.

Colorado OPS Project : Yes / No

For eANALYTICS Use

Samples Received Intact: (Yes) / No

Received Within Temperature Range (2-6°C) (Yes) / No

Sample Preservative: (Ice) None Acid Other

Record of Custody

Relinquished by: [signature] Date 07/17/13
Company: AECOM Time 1400 AM / PM

Received by: Date
Company: Time AM / PM

Relinquished by: Date
Company: Time AM / PM

Received by: [signature] Date 7/18/13
Company: eANALYTICS Time 1000 AM / PM

WO # 071801

eANALYTICS: Environmental testing made Easy

Page 1 of 1

Certificate of Analysis

Sample Analysis — **July 19, 2013**

eANALYTICS LABORATORY

Client: AECOM
1601 Prospect Pkwy
Fort Collins, CO 80521

Project: Maverik

Lab ID: 071801

Matrix: WATER
Batch ID: EA 07-19-13

EPA Method: 8260C — BTEX / 1,2-DCA
300.0 — Dissolved Sulfate

Sample Name	Benzene mg/L	Toluene mg/L	Ethyl-Benzene mg/L	Total Xylenes mg/L	1,2-DCA mg/L	Dis. Sulfate mg/L	Date Sampled	Date Analyzed	Lab ID
Injection West	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	4320	07/17/13	07/19/13	071801-01
Injection North	0.014	0.006	0.011	0.144	0.013	6560	07/17/13	07/19/13	071801-02
Injection East	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	240	07/17/13	07/19/13	071801-03
MW-17	0.003	< 0.001	< 0.001	0.008	< 0.001	1680	07/17/13	07/19/13	071801-04
MW-117	0.002	< 0.001	< 0.001	0.008	< 0.001	1760	07/17/13	07/19/13	071801-05
Injection South	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	880	07/17/13	07/19/13	071801-06
Trip Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		07/17/13	07/19/13	071801-07

Certificate of Analysis

Surrogate Recoveries (%)

eANALYTICS LABORATORY

July 19, 2013

Client: AECOM
1601 Prospect Pkwy
Fort Collins, CO 80521

Project: Maverik

Lab ID: 071801

EPA Method: 8260C

Sample Name	Dibromofluoromethane (70-130%)	1,2-Dichloroethane-D4 (70-130%)	Toluene-D8 (70-130%)	Bromofluorobenzene (70-130%)	Date Sampled	Date Analyzed	Lab ID
Injection West	100	99	96	91	07/17/13	07/19/13	071801-01
Injection North	91	94	101	95	07/17/13	07/19/13	071801-02
Injection East	92	105	90	103	07/17/13	07/19/13	071801-03
MW-17	101	91	95	94	07/17/13	07/19/13	071801-04
MW-117	94	99	98	95	07/17/13	07/19/13	071801-05
Injection South	98	103	92	96	07/17/13	07/19/13	071801-06
Trip Blank	101	96	95	96	07/17/13	07/19/13	071801-07

Certificate of Analysis

Quality Control Analysis

eANALYTICS LABORATORY

July 19, 2013

Client: AECOM
1601 Prospect Pkwy
Fort Collins, CO 80521

Project: Maverik

Lab ID: 071801

Matrix: WATER
Batch ID: EA 07-19-13

EPA Method: 8260C
300.0

BTEX / 1,2-DCA
Dissolved Sulfate

Sample Name	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	1,2-DCA	Dis. Sulfate		Date Analyzed	Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
LCS	98	96	97	101	100	103		07/19/13	L 07/19/13
(70-130%)									
CCV	96	96	94	102	95			07/19/13	C 07/19/13
(80-120%)									
Reagent Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.5		07/19/13	RB 07/19/13
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			

Certificate of Analysis

eANALYTICS LABORATORY

October 25, 2013

Client: TRC
19 Old Town Square
Suite 238
Fort Collins, CO 80524

Project: Maverik

Lab ID: 102206

Date Received: 10/22/13

Number of Samples Received: 7

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

Analysis	EPA Method	Lab ID on COC
BTEX / 1,2-DCA	8260C	1 - 7
Dissolved Sulfate	300.0	1 - 6

All quality control analyses associated with the requested analyses were satisfactorily passed before the samples were run. If you have any questions please give us a call, we are happy to help.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you, we truly appreciate your business.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

eAnalytics Laboratory
(970) 667-6975
info@eAnalyticsLab.com

Certificate of Analysis

Chain of Custody | **October 25, 2013**

eANALYTICS LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY

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CLIENT INFORMATION
(*New Clients please fill out completely)

Company: TRC
Project: Maverik
Project Manager: Jason Jayroe
Sampler: Jason Jayroe
Phone/Email:
Address:

ANALYSIS INFORMATION
(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix: (S) Soil (W) Water (V) Vapor (O) Other	BTEX & 1,2-DCA (EPA 8260)	Dissolved Sulfate (EPA 300.3)
01	MW-17	10/18/13 0900 AM/PM			X	X
02	MW-117	0850 AM/PM				
03	Inj North	0930 AM/PM				
04	Inj South	1000 AM/PM				
05	Inj. West	1030 AM/PM				
06	Inj East	1130 AM/PM				
07	Trip Blank	— — AM/PM				

Comments:

Turnaround Time (Business Days)
TAT begins when sample is received by eANALYTICS
- ○ Normal (5-10 Days)
- ○ 3 Day (25%)
- ○ 2 Day (50%)
- ○ 1 Day (100%)
- ○ Same Day (300%)

Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.

Colorado OPS Project : Yes / No

For eANALYTICS Use
Samples Received Intact: (Yes) / No
Received Within Temperature Range (2-6°C) (Yes) / No
Sample Preservative: Ice / None / Acid / Other

Record of Custody

Relinquished by: [signature] Date 10/22/13
Company: TRC Time 1705 AM/PM
Received by: Date
Company: Time AM/PM
Relinquished by: Date
Company: Time AM/PM
Received by: [signature] Date 10:22/13
Company: eANALYTICS Time 1700 AM/PM

WO # 102206

eANALYTICS: Environmental testing made Easy

Page 1 of 1

Certificate of Analysis

Sample Analysis — **October 25, 2013**

eANALYTICS LABORATORY

Client: TRC
19 Old Town Square
Suite 238
Fort Collins, CO 80524

Project: Maverik

Lab ID: 102206

Matrix: WATER
Batch ID: W 102206

EPA Method: 8260C — BTEX / 1,2-DCA
300.0 — Dissolved Sulfate

Sample Name	Benzene mg/L	Toluene mg/L	Ethyl-Benzene mg/L	Total Xylenes mg/L	1,2-DCA mg/L	Dis. Sulfate mg/L	Date Sampled	Date Analyzed	Lab ID
MW-17	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	365	10/18/13	10/24/13	102206-01
MW-117	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	358	10/18/13	10/24/13	102206-02
Inj North	< 0.001	< 0.001	0.001	0.012	0.027	2315	10/18/13	10/24/13	102206-03
Inj South	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	442	10/18/13	10/24/13	102206-04
Inj West	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	889	10/18/13	10/24/13	102206-05
Inj East	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	607	10/18/13	10/24/13	102206-06
Trip Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		10/18/13	10/24/13	102206-07

Certificate of Analysis

Surrogate Recoveries (%)

eANALYTICS LABORATORY

October 25, 2013

Client: TRC
19 Old Town Square
Suite 238
Fort Collins, CO 80524

Project: Maverik

Lab ID: 102206

EPA Method: 8260C

Sample Name	Dibromofluoromethane (70-130%)	1,2-Dichloroethane-D4 (70-130%)	Toluene-D8 (70-130%)	Bromofluorobenzene (70-130%)	Date Sampled	Date Analyzed	Lab ID
MW-17	91	88	96	94	10/18/13	10/24/13	102206-01
MW-117	96	94	99	91	10/18/13	10/24/13	102206-02
Inj North	101	99	95	94	10/18/13	10/24/13	102206-03
Inj South	93	97	88	99	10/18/13	10/24/13	102206-04
Inj West	99	102	99	104	10/18/13	10/24/13	102206-05
Inj East	97	90	89	94	10/18/13	10/24/13	102206-06
Trip Blank	100	94	102	87	10/18/13	10/24/13	102206-07

Certificate of Analysis

Quality Control Analysis

eANALYTICS LABORATORY

October 25, 2013

Client: TRC
19 Old Town Square
Suite 238
Fort Collins, CO 80524

Project: Maverik

Lab ID: 102206

Matrix: WATER
Batch ID: W 102206

EPA Method: 8260C
300.0

BTEX / 1,2-DCA
Dissolved Sulfate

Sample Name	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	1,2-DCA	Dis. Sulfate		Date Analyzed	Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
LCS	99	92	104	104	96	102		10/24/13	L 10/24/13
(70-130%)									
CCV	101	90	99	94	100			10/24/13	C 10/24/13
(80-120%)									
Reagent Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.5		10/24/13	RB 10/24/13
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			

Certificate of Analysis

eANALYTICS LABORATORY

December 27, 2013

Client: TRC
19 Old Town Square
Suite 238
Fort Collins, CO 80524

Project: Maverik

Lab ID: 453

Date Received: 12/23/13

Number of Samples Received: 15

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

Analysis	EPA Method	Lab ID on COC
BTEX / 1,2-DCA	8260C	1 - 15
Dissolved Sulfate	300.0	1 - 6

All quality control analyses associated with the requested analyses were satisfactorily passed before the samples were run. If you have any questions please give us a call, we are happy to help.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you, we truly appreciate your business.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

eAnalytics Laboratory
(970) 667-6975
info@eAnalyticsLab.com

Certificate of Analysis

Chain of Custody | eANALYTICS LABORATORY | **December 27, 2013**

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION
(*New Clients please fill out completely)

Company:	TRC
Project:	Maverik
Project Manager:	Jason Jayroe
Sampler:	Jason Jayroe
Phone/Email:	
Address:	

ANALYSIS INFORMATION
(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix: (S) Soil (W) Water (V) Vapor (O) Other	BTEX & 1,2-DCA (EPA 8260)	Dissolved Sulfate (EPA 300.3)
1	Inj East	12/19/13 1600 AM/PM	4	W	X	X
2	MW-17	1640 AM/PM	4			
3	Inj-North	1730 AM/PM	3			
4	MW-117	1710 AM/PM	4			
5	Inj. South	12/20/13 0700 AM/PM	3			
6	Inj West	0630 AM/PM				X
7	MW-22	0730 AM/PM				
8	MW-18	0800 AM/PM				
9	MW-21	0830 AM/PM				
10	MW-20	0900 AM/PM				
11	MW-10	0930 AM/PM				
12	MW-19	1000 AM/PM				
13	MW-16	1045 AM/PM				
14	MW-9	1145 AM/PM	4			
15	Trip Blank	AM/PM	1	W	X	

Comments:

Turnaround Time (Business Days)
TAT begins when sample is received by eANALYTICS
- ○ Normal (5-10 Days)
- ○ 3 Day (25%)
- ○ 2 Day (50%)
- ○ 1 Day (100%)
- ○ Same Day (300%)

Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.

Colorado OPS Project : Yes / No

For eANALYTICS Use

Samples Received Intact: (Yes) / No

Received Within Temperature Range (2-6°C) (Yes) / No

Sample Preservative: (Ice) None / Acid / Other

Record of Custody

Relinquished by: [signature] Date 12/23/13
Company: TRC Time 1130 AM/PM
Received by: Date
Company: Time
Relinquished by: Date
Company: Time
Received by: [signature] Date 12/23/13
Company: eANALYTICS Time 1130 AM/PM

WO # 453

eANALYTICS: Environmental testing made Easy

Page 1 of 1

Certificate of Analysis

Sample Analysis — **December 27, 2013**

eANALYTICS LABORATORY

Client: TRC
19 Old Town Square
Suite 238
Fort Collins, CO 80524

Project: Maverik

Lab ID: 453

Matrix: WATER
Batch ID: W 453

EPA Method: 8260C — BTEX / 1,2-DCA
300.0 — Dissolved Sulfate

Sample Name	Benzene mg/L	Toluene mg/L	Ethyl-Benzene mg/L	Total Xylenes mg/L	1,2-DCA mg/L	Dis. Sulfate mg/L	Date Sampled	Date Analyzed	Lab ID
Inj East	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	462	12/19/13	12/26/13	453-1
MW-17	0.002	< 0.001	0.002	0.003	< 0.001	677	12/19/13	12/26/13	453-2
Inj North	< 0.001	0.001	0.007	0.072	0.023	1792	12/19/13	12/26/13	453-3
MW-117	0.002	< 0.001	0.002	0.003	< 0.001	703	12/19/13	12/26/13	453-4
Inj South	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	1284	12/20/13	12/26/13	453-5
Inj West	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	1359	12/20/13	12/26/13	453-6
MW-22	0.037	< 0.001	0.001	< 0.001	0.001		12/20/13	12/26/13	453-7
MW-18	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/20/13	12/26/13	453-8
MW-21	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/20/13	12/26/13	453-9
MW-20	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/20/13	12/26/13	453-10
MW-10	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/20/13	12/26/13	453-11
MW-19	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/20/13	12/26/13	453-12
MW-16	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/20/13	12/26/13	453-13
MW-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/20/13	12/26/13	453-14
Trip Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/20/13	12/26/13	453-15

Certificate of Analysis

Surrogate Recoveries (%)

eANALYTICS LABORATORY

December 27, 2013

Client: TRC
19 Old Town Square
Suite 238
Fort Collins, CO 80524

Project: Maverik

Lab ID: 453

EPA Method: 8260C

Sample Name	Dibromofluoromethane (70-130%)	1,2-Dichloroethane-D4 (70-130%)	Toluene-D8 (70-130%)	Bromofluorobenzene (70-130%)	Date Sampled	Date Analyzed	Lab ID
Inj East	97	90	93	95	12/19/13	12/26/13	453-1
MW-17	88	100	95	90	12/19/13	12/26/13	453-2
Inj North	89	89	101	92	12/19/13	12/26/13	453-3
MW-117	103	91	101	90	12/19/13	12/26/13	453-4
Inj South	90	104	105	91	12/20/13	12/26/13	453-5
Inj West	95	100	96	103	12/20/13	12/26/13	453-6
MW-22	90	104	92	95	12/20/13	12/26/13	453-7
MW-18	96	93	92	89	12/20/13	12/26/13	453-8
MW-21	97	87	91	97	12/20/13	12/26/13	453-9
MW-20	90	98	101	92	12/20/13	12/26/13	453-10
MW-10	101	99	90	92	12/20/13	12/26/13	453-11
MW-19	90	101	90	96	12/20/13	12/26/13	453-12
MW-16	98	88	99	88	12/20/13	12/26/13	453-13
MW-9	90	100	92	102	12/20/13	12/26/13	453-14
Trip Blank	104	99	88	90	12/20/13	12/26/13	453-15

Certificate of Analysis

Quality Control Analysis

eANALYTICS LABORATORY

December 27, 2013

Client: TRC
19 Old Town Square
Suite 238
Fort Collins, CO 80524

Project: Maverik

Lab ID: 453

Matrix: WATER
Batch ID: W 453

EPA Method: 8260C
300.0

BTEX / 1,2-DCA
Dissolved Sulfate

Sample Name	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	1,2-DCA	Dis. Sulfate		Date Analyzed	Lab ID
	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec			
LCS	92	99	103	101	101	99		12/26/13	L 12/26/13
(70-130%)									
CCV	87	97	88	93	88			12/26/13	C 12/26/13
(80-120%)									
Reagent Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.5		12/26/13	RB 12/26/13
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			

131 E. Lincoln Ave.
Suite 200
Fort Collins, CO 80524

970.484.3263 PHONE
970.484.3250 FAX

www.trcsolutions.com

March 20, 2015

Jim Griswold
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject: **2014 Annual Groundwater Report, Maverik Country Stores (Former Caribou Refinery), Kirtland, New Mexico**

Dear Mr. Griswold:

This report provides the results of the 2014 Site activities for the Maverik Country Stores site (former Caribou Refinery) in Kirtland, New Mexico (**Figure 1**). These activities were completed during the 2014 calendar year to meet the annual monitoring requirements for the site. The scope of work completed included:

- Annual fluid level measurements of 24 on-site and off-site wells;
- Annual low-flow groundwater sampling of 11 on-site and 2 off-site wells;
- Annual analytical evaluation of VOCs and dissolved sulfate in groundwater of 11 on-site wells and analytical evaluation of VOCs in 2 off-site monitoring wells.

Field methods, results, and the conclusions from the 2014 field events are discussed below.

Annual Groundwater Sampling

Annual groundwater sampling activities were conducted on December 7 and December 8, 2014. Prior to well sampling, site-wide fluid levels were measured using an oil/water interface probe (**Table 1**) for compilation of the site potentiometric surface map (**Figure 2**). Fluid levels were not obtainable from two of the site wells including:

- MW-04 (has been converted to an irrigation well within a pump house by Mr. Roland Jackson); and
- MW-06 (unable to locate, possibly abandoned or destroyed).

None of the monitoring wells contained measurable thicknesses of LNAPL during this event. Based on the December 2014 groundwater elevations, the groundwater flow direction is to the south-southwest across the site toward the San Juan River. A horizontal gradient was calculated ranging from 0.007 ft/ft near the northern portion site to 0.008 ft/ft the southern portion of the site in the residential area (**Figure 2**). This flow direction is consistent with past monitoring events.

Nine monitoring wells and the four injection wells were sampled as part of the regular annual groundwater sampling event. All wells were sampled utilizing a peristaltic pump and flow-through cell. Groundwater field parameters pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured using a flow through cell and YSI 556 MPS during groundwater sampling. Groundwater samples were sent to eAnalytics in Loveland, Colorado under chain-of-custody (COC) protocol and analyzed for volatile organic compounds (VOCs) using EPA Method 8260. In addition, the groundwater samples taken from MW-17 and the four injection wells (INJ-North, INJ-South, INJ-East, and INJ-West) were analyzed for dissolved sulfate using EPA Method 300.0. Laboratory deliverables are provided in **Attachment A**. Results of the groundwater sampling are summarized in **Table 2**. The results show that constituents of concern BTEX and 1,2 dichloroethane (1,2-DCA) concentrations are confined within the slurry wall impoundment area (**Figure 3**). Dissolved sulfate was detected in MW-17 and the four injection wells. No VOC concentrations were detected in down-gradient wells (MW-10, MW-19, and MW-20) outside the slurry wall, cross gradient wells (MW-9, MW-16, and MW-21) or the up-gradient well, MW-18, located on the northern edge of the slurry wall **(Table 2)**.

Well MW-21 on the east side of the impoundment has an elevated conductivity level, almost an order of magnitude above other site wells. Well MW-18, on the north side of the impoundment, also revealed an elevated conductivity level, before being purged dry. The elevated conductivity in these wells is presumed to be related to salt solutions that are used and stored at the neighboring property.

Summary and Conclusions

The annual groundwater sampling was completed during the week of December 7th, 2014. Fluid levels were measured in 24 wells to establish groundwater flow conditions. Groundwater flow is to the south-southwest across the site toward the San Juan River. Groundwater results were below New Mexico Groundwater Standards for all 8260 VOCs with the exception of one well located within the slurry wall impoundment area (INJ-North). The groundwater from collected from INJ-North contained a detection of 18 ug/L 1,2-DCA which exceeds the New Mexico Groundwater Standard of 10 µg/L.

The groundwater sampling data suggest that the In Situ Chemical Oxidation (ISCO) injections were successful in decreasing the concentrations of VOCs within the slurry wall. Overall, the slurry wall impoundment is functioning as designed and no off-site migration of constituents of concern is occurring. However, Maverik plans to design a

second remedial phase to treat the VOC's that persist within the slurry wall. The proposed second remedial phase approach field work will begin in 2015.

Sincerely,



Jason Jayroe
Project Manager

Tables

Table 1 – Groundwater Elevation Table
Table 2 – Analytical Results Table

Figures

Figure 1 – Site Location Map
Figure 2 – Potentiometric Surface Map, December 2014
Figure 3 – Onsite and Offsite BTEX Concentration Map, December 2014

Attachments

Attachment A – Laboratory Data

Table 1 Monitoring Well Construction Summary and December 2014 Fluid Levels, Maverik Country Stores, Inc. (Former Caribou Refinery)

Well ID	Completion Date	Total Depth (ft. BGS)	Well Diameter (in.)	Top of Steel Casing Elevation (ft. AMSL)	Top of PVC Casing Elevation (ft. AMSL)	Ground Surface Elevation (ft. AMSL)	Top of Screen (ft. BGS)	Bottom of Screen (ft. BGS)	Screen Length (ft.)	Top of Screen Elevation (ft. AMSL)	Bottom of Screen Elevation (ft. AMSL)	Depth to Groundwater (ft.) December 2014	Product Thickness (ft.)	Groundwater Elevation (ft. AMSL)	Comments
MW-1	1987	21.5	2	5207.79	5207.24	5205.75	11.5	21.5	10	5194.25	5184.25	15.13	NA	5192.11	
MW-2	1987	15	2	5197.10	5196.93	5195.25	5	15	10	5190.25	5180.25	8.13	NA	5188.80	
MW-3	1987	14.5	2	5183.00	5181.46	5181.06	4.5	14.5	10	5176.56	5166.56	2.67	NA	5178.79	Well damaged
MW-4	1987	15	2	5178.41	5177.1	5176.14	5	15	10	5171.14	5161.14	NM	NA	NM	Converted to irrigation well
MW-5	1987	15	2	5175.62	5175.09	5173.67	5	15	10	5168.67	5158.67	6.43	NA	5168.66	
MW-6	1987	15.5	2	5176.40	5176.01	5174.23	5.5	15.5	10	5168.73	5158.73	NM	NA	NM	Well not located
MW-7	1987	15	2	5183.71	5182.84	5181.73	5	15	10	5176.73	5166.73	6.1	NA	5176.74	
MW-8	1987	15	2	5186.00	5185.87	5184.02	5	15	10	5179.02	5169.02	NM	NA	NA	Unavailable
MW-9	1987	15	2	5191.39	5191.22	5189.33	5	15	10	5184.33	5174.33	8.58	NA	5182.64	
MW-10	1987	12.5	2	5189.80	5189.30	5187.47	2.5	12.5	10	5184.97	5174.97	4.93	NA	5184.37	
MW-11	1987	33	2	5197.26	5197.15	5194.97	23	33	10	5171.97	5161.97	NM	NA	NM	Abandoned 1990
MW-12	1987	12	2	5196.66	5196.19	5194.80	2	12	10	5192.80	5182.80	NM	NA	NM	Abandoned 1990
MW-13	1987	5	2	5187.76	NA	5187.56	0	5	5	5187.56	5182.56	NM	NA	NM	Destroyed
MW-14	1989	6	2	NA	5194.47	5190.70	1	6	5	5189.70	5184.70	8.65	NA	5185.82	
MW-15	1989	6	2	NA	5188.80	5185.40	1	6	5	5184.40	5179.40	5.42	NA	5183.38	
MW-16	1990	13	2	NA	5194.98	5193.74	3	13	10	5190.74	5180.74	7.63	NA	5187.35	
MW-17	1993	15	2	5196.49	5195.91	5193.43	5	15	10	5188.43	5178.43	9.41	NA	5186.50	
MW-18	1993	15	2	5202.27	5201.75	5199.14	5	15	10	5194.14	5184.14	13.14	NA	5188.61	
MW-19	1990	12.5	2	NA	5189.54	5188.28	2.5	12.5	10	5185.78	5175.78	4.24	NA	5185.30	
MW-20	1990	12	2	NA	5191.05	5190.10	2	12	10	5188.10	5178.10	5.5	NA	5185.55	
MW-21	1990	13	2	NA	5194.81	5193.62	3	13	10	5190.62	5180.62	7.98	NA	5186.83	
MW-22	1990	13	2	NA	5195.86	5194.58	3	13	10	5191.58	5181.58	8.61	NA	5187.25	
P-1	1993	8	2	NA	5197.66	5195.74	3	8	5	5192.74	5187.74	9.64	NA	5188.02	
P-2	1993	8	2	NA	5192.32	5190.50	3	8	5	5187.50	5182.50	5.98	NA	5186.34	
P-3	1993	8	2	NA	5193.21	5191.44	3	8	5	5188.44	5183.44	6.62	NA	5186.59	
P-4	1993	8	2	NA	5198.82	5197.06	3	8	5	5194.06	5189.06	10.04	NA	5188.78	
INJ-N	2012	15	2	NA	NA	NA	5	15	10	NA	NA	9.92	NA	NA	
INJ-E	2012	15	2	NA	NA	NA	5	15	10	NA	NA	9.52	NA	NA	
INJ-S	2012	15	2	NA	NA	NA	5	15	10	NA	NA	9.48	NA	NA	
INJ-W	2012	15	2	NA	NA	NA	5	15	10	NA	NA	8.83	NA	NA	

Notes:

AMSL = Above mean sea level

BGS = Below ground surface

NM = Not Measured

NA = Not Applicable

ft =feet

in = inches

Table 2 Groundwater Results, Annually Sampled Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Sample Name	Groundwater Standard*	Injection North	Injection West	Injection South	Injection East
Date		12/7/2014	12/7/2014	12/7/2014	12/7/2014
Analyte		ug/L	ug/L	ug/L	ug/L
Benzene	10	1	<1	<1	<1
Toluene	NS	<1	<1	<1	<1
Ethyl-Benzene	750	<1	<1	<1	<1
Total Xylenes	100	<1	<1	<1	<1
1,2-DCA	10	**18**	<1	<1	<1
Dis. Sulfate	6000000	1275000	675000	295000	295000

Sample Name	Groundwater Standard*	MW-17	MW-117 (MW-17 Dup)	MW-22	MW-10
Date		12/7/2014	12/7/2014	12/7/2014	12/7/2014
Analyte		ug/L	ug/L	ug/L	ug/L
Benzene	10	<1	<1	**4**	<1
Toluene	NS	<1	<1	<1	<1
Ethyl-Benzene	750	<1	<1	<1	<1
Total Xylenes	100	<1	<1	<1	<1
1,2-DCA	10	<1	<1	<1	<1
Dis. Sulfate	6000000	355000	360000	NS	NS

Sample Name	Groundwater Standard*	MW-18	MW-19	MW-20	MW-21
Date		12/7/2014	12/7/2014	12/7/2014	12/7/2014
Analyte		ug/L	ug/L	ug/L	ug/L
Benzene	10	<1	<1	<1	<1
Toluene	NS	<1	<1	<1	<1
Ethyl-Benzene	750	<1	<1	<1	<1
Total Xylenes	100	<1	<1	<1	<1
1,2-DCA	10	<1	<1	<1	<1
Dis. Sulfate	6000000	NS	NS	NS	NS

Sample Name	Groundwater Standard*	MW-9	MW-16
Date		12/7/2014	12/7/2014
Analyte		ug/L	ug/L
Benzene	10	<1	<1
Toluene	NS	<1	<1
Ethyl-Benzene	750	<1	<1
Total Xylenes	100	<1	<1
1,2-DCA	10	<1	<1
Dis. Sulfate	6000000	NS	NS

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103

NS - Not sampled

J - Estimated result. Result is less than RL

U - Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

Bold - Detected result

Highlighted - Result Exceeds New Mexico Groundwater Standard

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\2015\209783 Fig. 1 2014 Site Location Map.dwg Layout: FIGURE 1 User: ehoverl Plotted: Jan 28, 2015 - 4:51pm Xref's:

LEGEND

- MW-2 — MONITORING WELL
- P1 — PIEZOMETER
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

Co. Road 6257

Co. Road 6261

Co. RoadD 6255

Co. RoadD 6259

Co. RoadD 6263

Co. RoadD 6271

Co. Road 6100

U.S. Highway 64

Road

E. Mclemore

E. Gray

J.L. Flack

R. Neff

G. Curley

I. Hall

G. Nelson

R. Jackson

A. Jackson

Ryan

MW-4

MW-5

MW-1

MW-2

MW-3

MW-7

MW-8

MW-9

MW-10

MW-14

MW-15

MW-16

MW-17

MW-18

MW-19

MW-20

MW-21

MW-22

P1

P2

P3

P4

(Out of Service)

WESTSIDE IRRIGATION DITCH

MURRAY PROPERTY DITCH

DITCH IS FILLED IN AT THIS LOCATION

DITCH IS FILLED IN AT THIS LOCATION

FARMER'S MUTUAL IRRIGATION DITCH

M. Stone

WM. H. Walker

100 0 200

SCALE IN FEET

TRC

2014 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

DATE: 01/28/2015 | DRWN: ERH

SITE LOCATION MAP
DECEMBER 2014

FIGURE 1

LEGEND

- MW-2 MONITORING WELL
- P1 PIEZOMETER
- E. Gray PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- GROUNDWATER ELEVATION CONTOURS
- WESTSIDE IRRIGATION DITCH FIELD LOCATION

Co. Road 6257

Co. Road 6261

Co. Road D 6255

Co. Road D 6259

Co. Road D 6263

Co. Road D 6271

CO. Road 6100

U.S. Highway 64

Road

E. Mclemore

E. Gray

J.L. Flack

R. Neff

O. Curley

I. Hull

G. Nelson

R. Jackson

A. Jackson

Ryan

MW-4

WM. H. Walker

M. Stode

MW-1 5192.11

MW-2 5188.80

MW-3 5178.79

MW-4

MW-5 5168.66

MW-7 5176.77

MW-8

MW-9 5182.64

MW-10 5184.37

MW-14 5185.82

MW-15 5183.38

MW-16 5187.35

MW-17

MW-18 5188.61

MW-19 5185.30

MW-20 5185.55

MW-21 5186.83

MW-22

P1

P2

P3

P4

(Out of Service)

DITCH IS FILLED IN AT THIS LOCATION

DITCH IS FILLED IN AT THIS LOCATION

WESTSIDE IRRIGATION DITCH

FARMER'S MUTUAL IRRIGATION DITCH

MURRAY PROPERTY DITCH

5192 5190 5188 5186 5184 5182 5180 5178 5176 5174 5172 5170

100 0 200

SCALE IN FEET

TRC

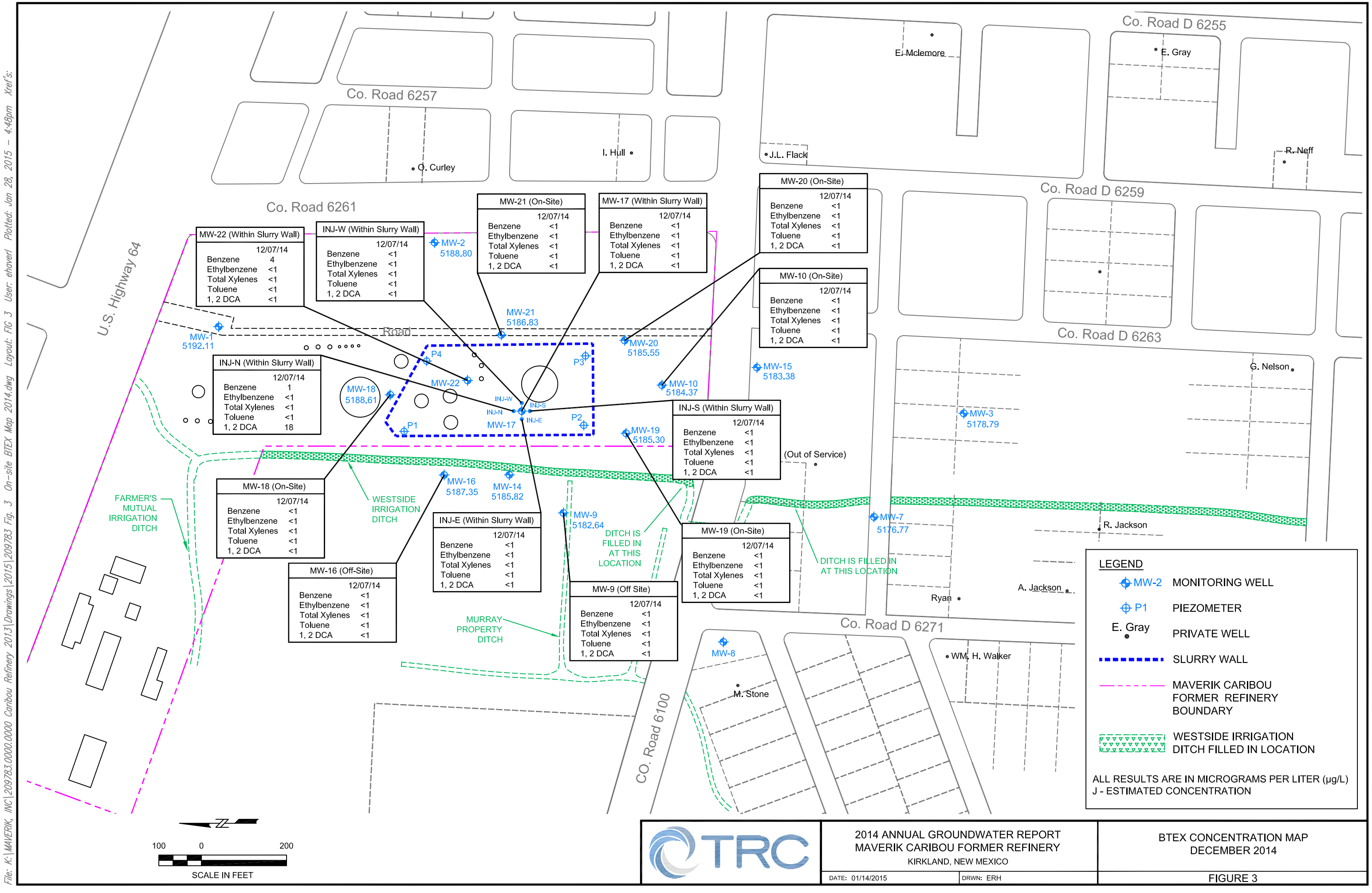
2014 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

DATE: 01/22/2015 | DRWN: ERH

POTENTIOMETRIC SURFACE MAP
DECEMBER 2014

FIGURE 2

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\2015\209783 Fig. 2 Surface Map 2014.dwg Layout: FIGURE 2 User: ehoverl Plotted: Jan 22, 2015 - 12:03pm Xref's:



TRC

2014 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

DATE: 01/14/2015 | DRWN: ERH

BTEX CONCENTRATION MAP
DECEMBER 2014

FIGURE 3

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\2015\209783 Fig. 3 On-site BTEX Map 2014.dwg Layout: FIG 3 User: ehoverl Plotted: Jan 28, 2015 - 4:48pm Xref's:

Certificate of Analysis

eANALYTICS LABORATORY

December 15, 2014

Client: TRC
131 E. Lincoln
Suite 200
Fort Collins, CO 80524

Project: Maverik

Lab ID: 2618

Date Received: 12/09/14

Number of Samples Received: 14

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

Analysis	EPA Method	Lab ID on COC
BTEX / 1,2-DCA	8260C	1 - 14
Dissolved Sulfate	300.0	6 - 10, 14

All quality control analyses associated with the requested analyses were satisfactorily passed before the samples were run. If you have any questions please give us a call, we are happy to help.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you, we truly appreciate your business.

Sincerely,

Christopher Dieken
Quality Assurance Manager

Todd Rhea
Laboratory Manager

eAnalytics Laboratory
(970) 667-6975
info@eAnalyticsLab.com

Certificate of Analysis

Chain of Custody | eANALYTICS LABORATORY | **December 15, 2014**

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION (*New Clients please fill out completely)

Company:	TRC
Project:	Maverik
Project Manager:	Jason Jayroe
Sampler:	Jason Jayroe
Phone/Email:	
Address:	

ANALYSIS INFORMATION (Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix:(S) Soil (W) Water (V) Vapor (O) Other	BTEX & 1,2-DCA (EPA 8260)	Dissolved Sulfate (EPA 300.3)
1	MW-20	12/7/14 1015 AM/PM	2	W	X	
2	MW-21	1050 AM/PM	2			
3	MW-18	1115 AM/PM	2			
4	MW-10	1145 AM/PM	2			
5	MW-19	1230 AM/PM	2			
6	Inj - West	1300 AM/PM	3			X
7	Inj - East	1320 AM/PM	3			X
8	Inj - North	1335 AM/PM	3			X
9	Inj - South	1400 AM/PM	3			X
10	MW-17	1438 AM/PM	3			X
11	MW-22	1500 AM/PM	2			
12	MW-16	1535 AM/PM	2			
13	MW-9	1600 AM/PM	2			
14	MW-117	1700 AM/PM	3		X	
		AM/PM				

Comments:

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- (X) Normal (5-10 Days)
- ( ) 3 Day (25%)
- ( ) 2 Day (50%)
- ( ) 1 Day (100%)
- ( ) Same Day (300%)

Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.

Colorado OPS Project : Yes / No

For eANALYTICS Use

Samples Received Intact: (Yes) / No

Received Within Temperature Range (2-6°C (Yes) / No

Sample Preservative: (Ice) None / Acid Other

Record of Custody

Relinquished by:		Date 12/05/14
Company:	TRC	Time 1640 AM/PM
Received by:		Date
Company:		Time AM/PM
Relinquished by:		Date
Company:		Time AM/PM
Received by:	Todd Rha	Date 12/9/14
Company:	eANALYTICS	Time 1640 AM/PM

WO # 21618

eANALYTICS: Environmental testing made Easy

Page 1 of 1

Certificate of Analysis

Sample Analysis | eANALYTICS LABORATORY | **December 15, 2014**

Client: TRC
131 E. Lincoln
Suite 200
Fort Collins, CO 80524

Project: Maverik

Lab ID: 2618

Matrix: WATER
Batch ID: W 2618

EPA Method: 8260C BTEX / 1,2-DCA
300.0 Dissolved Sulfate

Sample Name	Benzene mg/L	Toluene mg/L	Ethyl-Benzene mg/L	Total Xylenes mg/L	1,2-DCA mg/L	Dis. Sulfate mg/L	Date Sampled	Date Analyzed	Lab ID
MW-20	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/07/14	12/10/14	2618-1
MW-21	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/07/14	12/10/14	2618-2
MW-18	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/07/14	12/10/14	2618-3
MW-10	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/07/14	12/10/14	2618-4
MW-19	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/07/14	12/10/14	2618-5
Inj-West	< 0.001	< 0.001	< 0.001	< 0.001	0.001	675	12/07/14	12/10/14	2618-6
Inj-East	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	295	12/07/14	12/10/14	2618-7
Inj-North	0.001	< 0.001	< 0.001	< 0.001	0.018	1275	12/07/14	12/10/14	2618-8
Inj-South	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	295	12/07/14	12/10/14	2618-9
MW-17	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	355	12/07/14	12/10/14	2618-10
MW-22	0.004	< 0.001	< 0.001	< 0.001	< 0.001		12/07/14	12/10/14	2618-11
MW-16	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/07/14	12/10/14	2618-12
MW-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/07/14	12/10/14	2618-13
MW-117	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	360	12/07/14	12/10/14	2618-14

Certificate of Analysis

Surrogate Recoveries (%)

eANALYTICS LABORATORY

December 15, 2014

Client: TRC
131 E. Lincoln
Suite 200
Fort Collins, CO 80524

Project: Maverik

Lab ID: 2618

EPA Method: 8260C

Sample Name	Dibromofluoromethane (70-130%)	1,2-Dichloroethane-D4 (70-130%)	Toluene-D8 (70-130%)	Bromofluorobenzene (70-130%)	Date Sampled	Date Analyzed	Lab ID
MW-20	88	91	103	90	12/07/14	12/10/14	2618-1
MW-21	90	89	102	100	12/07/14	12/10/14	2618-2
MW-18	94	95	98	93	12/07/14	12/10/14	2618-3
MW-10	87	103	96	94	12/07/14	12/10/14	2618-4
MW-19	90	97	89	93	12/07/14	12/10/14	2618-5
Inj-West	103	87	94	89	12/07/14	12/10/14	2618-6
Inj-East	101	102	91	91	12/07/14	12/10/14	2618-7
Inj-North	97	93	94	99	12/07/14	12/10/14	2618-8
Inj-South	92	89	90	99	12/07/14	12/10/14	2618-9
MW-17	104	98	101	95	12/07/14	12/10/14	2618-10
MW-22	92	94	96	102	12/07/14	12/10/14	2618-11
MW-16	98	98	94	95	12/07/14	12/10/14	2618-12
MW-9	90	104	93	88	12/07/14	12/10/14	2618-13
MW-117	104	91	93	95	12/07/14	12/10/14	2618-14

Certificate of Analysis

Quality Control Analysis

eANALYTICS LABORATORY

December 15, 2014

Client: TRC
131 E. Lincoln
Suite 200
Fort Collins, CO 80524

Project: Maverik

Lab ID: 2618

Matrix: WATER
Batch ID: W 2618

EPA Method: 8260C
300.0

BTEX / 1,2-DCA
Dissolved Sulfate

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-Benzene % Rec	Total Xylenes % Rec	1,2-DCA % Rec	Dis. Sulfate % Rec		Date Analyzed	Lab ID
LCS	94	101	89	98	93	91		12/10/14	L 12/10/14
(70-130%)									
CCV	92	96	91	102	95			12/10/14	C 12/10/14
(80-120%)									
Reagent Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.5		12/10/14	RB 12/10/14
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			

131 E. Lincoln Ave.
Suite 200
Fort Collins, CO 80524

970.484.3263 PHONE
970.484.3250 FAX

www.trcsolutions.com

June 8, 2016

Jim Griswold
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject: **2015 Annual Groundwater Report, Maverik Country Stores (Former Caribou Refinery), Kirtland, New Mexico**

Dear Mr. Griswold:

This report provides the results of the 2015 Site activities for the Maverik Country Stores site (former Caribou Refinery) in Kirtland, New Mexico (**Figure 1**). These activities were completed during the 2015 calendar year to meet the annual monitoring requirements for the site. The scope of work completed included:

- Annual fluid level measurements of 25 on-site and off-site wells;
- Annual low-flow groundwater sampling of 10 on-site and 2 off-site wells;
- Annual analytical evaluation of VOCs and dissolved sulfate in groundwater samples from 5 on-site wells, along with analytical evaluation of VOCs from 5 on-site and 2 off-site monitoring wells.

Field methods, results, and the conclusions from the 2015 field events are discussed below.

Annual Groundwater Sampling

Annual groundwater sampling activities were conducted on December 10 and 11, 2015. Prior to well sampling, site-wide fluid levels were measured using an oil/water interface probe (**Table 1**) for compilation of the site potentiometric surface map (**Figure 2**). Fluid levels were not obtainable from two of the site wells including:

- MW-04 (has been converted to an irrigation well within a pump house by Mr. Roland Jackson); and

- MW-06 (unable to locate, possibly abandoned or destroyed)

None of the monitoring wells contained measurable thicknesses of LNAPL during this event. Based on the December 2015 groundwater elevations, the groundwater flow direction is to the south-southwest across the site toward the San Juan River. A horizontal gradient was calculated ranging from 0.012 ft/ft near the northern portion site to 0.009 ft/ft the southern portion of the site in the residential area (**Figure 2**). This flow direction is consistent with past monitoring events.

Eight monitoring wells and the four injection wells were sampled as part of the regular annual groundwater sampling event. All wells were sampled utilizing a peristaltic pump and flow-through cell. Groundwater field parameters pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured using a flow through cell and YSI 556 MPS during groundwater sampling. Groundwater samples were sent to eAnalytics in Loveland, Colorado under chain-of-custody (COC) protocol and analyzed for volatile organic compounds (VOCs) using EPA Method 8260C. In addition, the groundwater samples taken from MW-17 and the four injection wells (INJ-North, INJ-South, INJ-East, and INJ-West) were analyzed for dissolved sulfate using EPA Method 300.0. Laboratory deliverables are provided in **Attachment A**. Results of the groundwater sampling are summarized in **Table 2**. The results show that constituents of concern BTEX and 1,2 dichloroethane (1,2-DCA) concentrations are confined within the slurry wall impoundment area (**Figure 3**). Dissolved sulfate was detected in MW-17 and the four injection wells. No VOC concentrations were detected in down-gradient wells (MW-10, MW-19, and MW-20) outside the slurry wall, cross gradient wells (MW-9, MW-16, and MW-21) or the up-gradient well, MW-18, located on the northern edge of the slurry wall **(Table 2)**.

Well MW-21 on the east side of the impoundment has an elevated conductivity level, almost an order of magnitude above other site wells. Well MW-18, on the north side of the impoundment, also revealed an elevated conductivity level, before being purged dry. The elevated conductivity in these wells is presumed to be related to salt solutions that are used and stored at the neighboring property.

Well MW-22 appears to be silted in and as a result there was not enough water in the well to collect a groundwater sample. This well will continue to be monitored for sufficient groundwater during future monitoring events. Well redevelopment work may be necessary in the future to rehabilitate this monitoring well.

Summary and Conclusions

The annual groundwater sampling was completed during the week of December 10th, 2015. Fluid levels were measured in 25 wells to establish groundwater flow conditions. Across the site groundwater flow is to the south-southwest, toward the San Juan River. Groundwater results were below New Mexico Groundwater Standards for all 8260 VOCs

with the exception of two wells located within the slurry wall impoundment area (MW-17 and INJ-North). Groundwater sampled from MW-17 exceeded the New Mexico Groundwater Standards of 10 µg/L for Benzene and 100 µg/L for total xylenes with detections of 290 µg/L and 227 µg/L, respectively. The groundwater collected from INJ-North contained benzene and total xylenes detections beyond the New Mexico Groundwater standards. Benzene exceeded the 10 µg/L standard with a 370 µg/L detection and total xylenes surpassed the 100 µg/L standard at 2,270 µg/L.

The groundwater sampling data suggest that the In Situ Chemical Oxidation (ISCO) injections were successful in decreasing the concentrations of VOCs within the slurry wall. Overall, the slurry wall impoundment is functioning as designed and no off-site migration of constituents of concern is occurring. However, Maverik plans to conduct an additional round of ISCO injections to treat the VOC's that persist within the slurry wall. The proposed additional round of ISCO injections field work will begin late summer/ fall 2016.

Sincerely,



Jason Jayroe
Project Manager

Tables

Table 1 – Groundwater Elevation Table
Table 2 – Analytical Results Table

Figures

Figure 1 – Site Location Map
Figure 2 – Potentiometric Surface Map, December 2015
Figure 3 – Onsite and Offsite BTEX Concentration Map, December 2015

Attachments

Attachment A – Laboratory Data

Table 1 Monitoring Well Construction Summary and December 2015 Fluid Levels, Maverik Country Stores, Inc. (Former Caribou Refinery)

Well ID	Completion Date	Total Depth (ft. BGS)	Well Diameter (in.)	Top of Steel Casing Elevation (ft. AMSL)	Top of PVC Casing Elevation (ft. AMSL)	Ground Surface Elevation (ft. AMSL)	Top of Screen (ft. BGS)	Bottom of Screen (ft. BGS)	Screen Length (ft.)	Top of Screen Elevation (ft. AMSL)	Bottom of Screen Elevation (ft. AMSL)	Depth to Groundwater (ft.) December 2015	Product Thickness (ft.)	Groundwater Elevation (ft. AMSL)	Comments
MW-1	1987	21.5	2	5207.79	5207.24	5205.75	11.5	21.5	10	5194.25	5184.25	13.01	NA	5194.23	
MW-2	1987	15	2	5197.10	5196.93	5195.25	5	15	10	5190.25	5180.25	9.09	NA	5187.84	
MW-3	1987	14.5	2	5183.00	5181.46	5181.06	4.5	14.5	10	5176.56	5166.56	5.04	NA	5176.42	Well damaged
MW-4	1987	15	2	5178.41	5177.1	5176.14	5	15	10	5171.14	5161.14	NM	NA	NM	Converted to irrigation well
MW-5	1987	15	2	5175.62	5175.09	5173.67	5	15	10	5168.67	5158.67	6.07	NA	5169.02	
MW-6	1987	15.5	2	5176.40	5176.01	5174.23	5.5	15.5	10	5168.73	5158.73	NM	NA	NM	Well not located
MW-7	1987	15	2	5183.71	5182.84	5181.73	5	15	10	5176.73	5166.73	7.02	NA	5175.82	
MW-8	1987	15	2	5186.00	5185.87	5184.02	5	15	10	5179.02	5169.02	5.98	NA	5179.89	
MW-9	1987	15	2	5191.39	5191.22	5189.33	5	15	10	5184.33	5174.33	5.94	NA	5185.28	
MW-10	1987	12.5	2	5189.80	5189.30	5187.47	2.5	12.5	10	5184.97	5174.97	6.77	NA	5182.53	
MW-11	1987	33	2	5197.26	5197.15	5194.97	23	33	10	5171.97	5161.97	NM	NA	NM	Abandoned 1990
MW-12	1987	12	2	5196.66	5196.19	5194.80	2	12	10	5192.80	5182.80	NM	NA	NM	Abandoned 1990
MW-13	1987	5	2	5187.76	NA	5187.56	0	5	5	5187.56	5182.56	NM	NA	NM	Destroyed
MW-14	1989	6	2	NA	5194.47	5190.70	1	6	5	5189.70	5184.70	5.82	NA	5188.65	
MW-15	1989	6	2	NA	5188.80	5185.40	1	6	5	5184.40	5179.40	Dry	NA	NA	
MW-16	1990	13	2	NA	5194.98	5193.74	3	13	10	5190.74	5180.74	7.59	NA	5187.39	
MW-17	1993	15	2	5196.49	5195.91	5193.43	5	15	10	5188.43	5178.43	9.97	NA	5185.94	
MW-18	1993	15	2	5202.27	5201.75	5199.14	5	15	10	5194.14	5184.14	12.73	NA	5189.02	
MW-19	1990	12.5	2	NA	5189.54	5188.28	2.5	12.5	10	5185.78	5175.78	5.45	NA	5184.09	
MW-20	1990	12	2	NA	5191.05	5190.10	2	12	10	5188.10	5178.10	7.42	NA	5183.63	
MW-21	1990	13	2	NA	5194.81	5193.62	3	13	10	5190.62	5180.62	7.79	NA	5187.02	
MW-22	1990	13	2	NA	5195.86	5194.58	3	13	10	5191.58	5181.58	10.42	NA	5185.44	
P-1	1993	8	2	NA	5197.66	5195.74	3	8	5	5192.74	5187.74	9.54	NA	5188.12	
P-2	1993	8	2	NA	5192.32	5190.50	3	8	5	5187.50	5182.50	6.76	NA	5185.56	
P-3	1993	8	2	NA	5193.21	5191.44	3	8	5	5188.44	5183.44	7.04	NA	5186.17	
P-4	1993	8	2	NA	5198.82	5197.06	3	8	5	5194.06	5189.06	Dry	NA	NA	
INJ-N	2012	15	2	NA	NA	NA	5	15	10	NA	NA	9.25	NA	NA	
INJ-E	2012	15	2	NA	NA	NA	5	15	10	NA	NA	9.94	NA	NA	
INJ-S	2012	15	2	NA	NA	NA	5	15	10	NA	NA	9.99	NA	NA	
INJ-W	2012	15	2	NA	NA	NA	5	15	10	NA	NA	9.94	NA	NA	

Notes:

AMSL = Above mean sea level
BGS = Below ground surface
NM = Not Measured
NA = Not Applicable
ft =feet
in = inches

Table 2 Groundwater Results, Annually Sampled Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Sample Name	Groundwater Standard*	Injection North	Injection West	Injection South	Injection East
Date		12/11/2015	12/11/2015	12/11/2015	12/11/2015
Analyte		µg/L	µg/L	µg/L	µg/L
Benzene	10	**370**	<1	<1	<1
Toluene	NS	**229**	<1	<1	<1
Ethyl-Benzene	750	**402**	<1	<1	<1
Total Xylenes	100	**2,270**	<1	<1	<1
1,2-DCA	10	<1	<1	<1	<1
Dis. Sulfate	6000000	**5,815,000**	**5,423,000**	**2,305,000**	**3,002,000**

Sample Name	Groundwater Standard*	MW-17	MW-117 (MW-17 Dup)	MW-10	MW-18
Date		12/11/2015	12/11/2015	12/10/2015	12/10/2015
Analyte		µg/L	µg/L	µg/L	µg/L
Benzene	10	**290**	**276**	<1	<1
Toluene	NS	**11**	**10**	<1	<1
Ethyl-Benzene	750	**151**	**143**	<1	<1
Total Xylenes	100	**227**	**222**	<1	<1
1,2-DCA	10	<1	<1	<1	<1
Dis. Sulfate	6000000	**2,914,000**	**3,512,000**	NS	NS

Sample Name	Groundwater Standard*	MW-19	MW-20	MW-21	MW-9
Date		12/10/2015	12/10/2015	12/10/2015	12/10/2015
Analyte		µg/L	µg/L	µg/L	µg/L
Benzene	10	<1	<1	<1	<1
Toluene	NS	<1	<1	<1	<1
Ethyl-Benzene	750	<1	<1	<1	<1
Total Xylenes	100	<1	<1	<1	<1
1,2-DCA	10	<1	<1	<1	<1
Dis. Sulfate	6000000	NS	NS	NS	NS

Sample Name	Groundwater Standard*	MW-16
Date		12/10/2015
Analyte		µg/L
Benzene	10	<1
Toluene	NS	<1
Ethyl-Benzene	750	<1
Total Xylenes	100	<1
1,2-DCA	10	<1
Dis. Sulfate	6000000	NS

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103

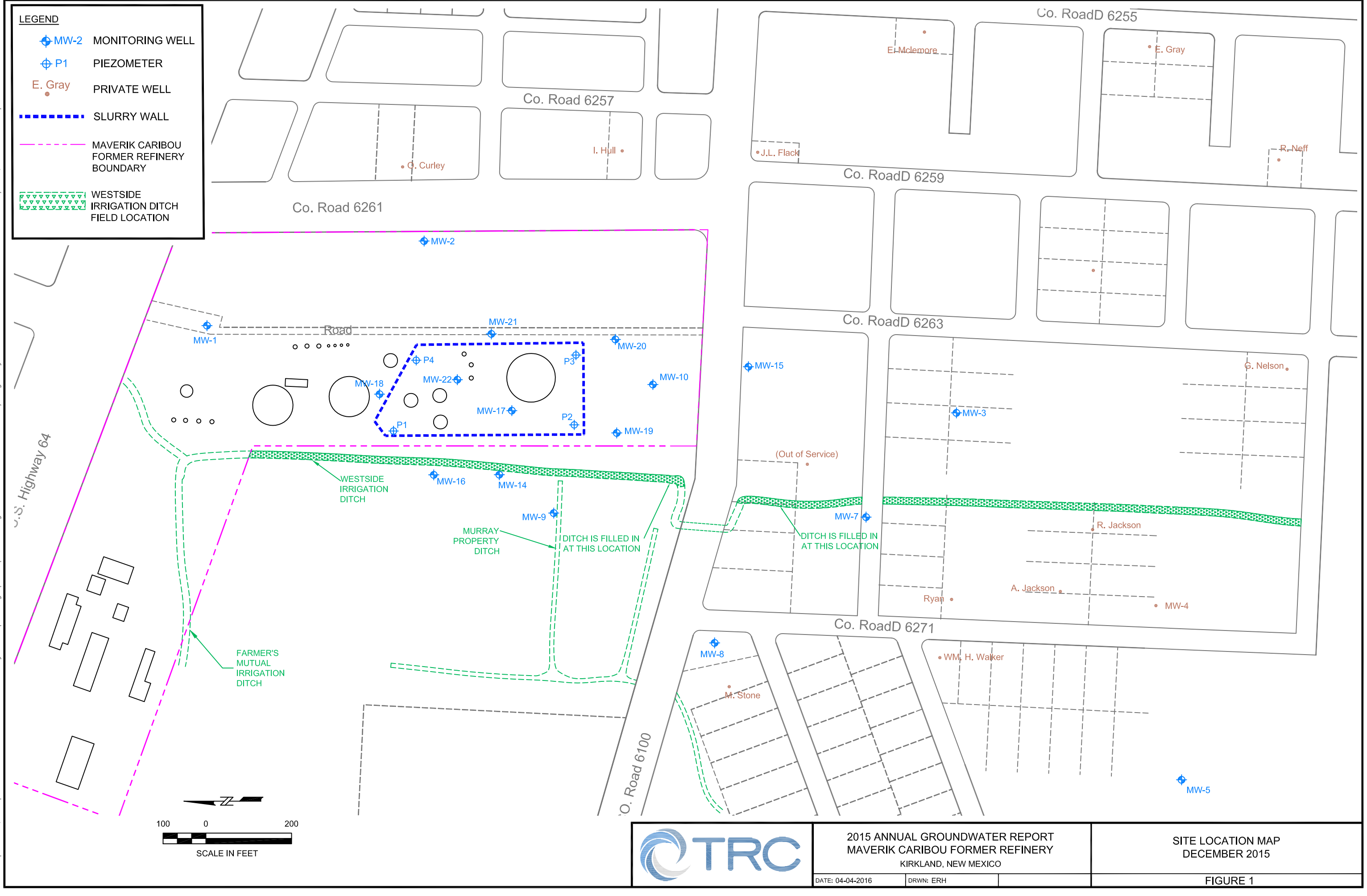
NS - Not sampled

J - Estimated result. Result is less than RL

U - Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

Bold - Detected result

Highlighted - Result Exceeds New Mexico Groundwater Standard



TRC

2015 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

DATE: 04-04-2016 | DRWN: ERH

SITE LOCATION MAP
DECEMBER 2015

FIGURE 1

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\2016\209783 Fig. 1 2015 Site Location Map.dwg Layout: FIGURE 1 User: ehaverl Plotted: Apr 11, 2016 - 4:17pm Xref's:

LEGEND

- MW-2 — MONITORING WELL
- P1 — PIEZOMETER
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- GROUNDWATER ELEVATION CONTOURS
- WESTSIDE IRRIGATION DITCH FIELD LOCATION

Co. Road 6257
Co. Road 6261
Co. Road D 6255
Co. Road D 6259
Co. Road D 6263
Co. Road D 6271
Co. Road 6100
U.S. Highway 64
Road

E. Mclemore
E. Gray
J.L. Flack
R. Neff
O. Curley
I. Hull
G. Nelson
R. Jackson
A. Jackson
Ryan
MW-4
WM. H. Walker
M. Stone

MW-1 5194.23
MW-2 5187.84
MW-3 5176.42
MW-4
MW-5 5169.02
MW-7 5175.82
MW-8 5179.89
MW-9 5185.28
MW-10 5182.53
MW-14 5188.65
MW-15 DRY
MW-16 5187.39
MW-17 5185.94
MW-18 5189.02
MW-19 5184.09
MW-20 5183.63
MW-21 5187.02
MW-22 5185.44
P1 5188.12
P2 5185.56
P3 5186.17
P4

5194 5192 5190 5188 5186 5184 5182 5180 5178 5176 5174 5172 5170

DITCH IS FILLED IN AT THIS LOCATION
(Out of Service)
DITCH IS FILLED IN AT THIS LOCATION
WESTSIDE IRRIGATION DITCH
FARMER'S MUTUAL IRRIGATION DITCH
MURRAY PROPERTY DITCH

100 0 200
SCALE IN FEET

TRC

2015 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

DATE: 4-7-16 | DRWN: ERH

POTENTIOMETRIC SURFACE MAP
DECEMBER 2015

FIGURE 2

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\2016\209783 Fig. 2 Surface Map 2015.dwg Layout: FIGURE 2 User: ehoverl Plotted: Apr 12, 2016 - 4:18pm Xref's:

LEGEND

MW-2 MONITORING WELL

P1 PIEZOMETER

E. Gray PRIVATE WELL

SLURRY WALL

MAVERIK CARIBOU FORMER REFINERY BOUNDARY

WESTSIDE IRRIGATION DITCH FIELD LOCATION

ALL RESULTS ARE IN MICROGRAMS PER LITER (µg/L)
J - ESTIMATED CONCENTRATION

Co. Road 6257

Co. Road 6261

Co. Road D 6255

Co. Road D 6259

Co. Road D 6263

Co. Road D 6271

CO. Road 6100

U.S. H.

Road

E. Mclemore

E. Gray

J.L. Flack

R. Neff

O. Curley

I. Hull

G. Nelson

R. Jackson

A. Jackson

Ryan

MW-4

M. Stone

WM. H. Walker

MW-5
5169.02

MW-1
5194.23

MW-2
5187.84

MW-3
5176.42

MW-4

MW-5
5169.02

MW-7
5175.82

MW-8
5179.89

MW-9
5185.28

MW-10
5182.53

MW-14
5188.65

MW-15
DRY

MW-16
5187.39

MW-17
5185.94

MW-18
5189.02

MW-19
5184.09

MW-20
5183.63

MW-21
5187.02

P1
5188.12

P2
5185.56

P3
5186.17

P4

INJ-W
INJ-N
INJ-S
INJ-E

SW1
SW2
SW3

(Out of Service)

INJ-W (Within Slurry Wall)	12/11/15
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

INJ-N (Within Slurry Wall)	12/11/15
Benzene	370
Toluene	229
Ethyl-Benzene	402
Total Xylenes	2,270
1, 2 DCA	<1

INJ-S (Within Slurry Wall)	12/11/15
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

INJ-E (Within Slurry Wall)	12/11/15
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-21 (On-Site)	12/10/15
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-17 (Within Slurry Wall)	12/11/15
Benzene	290
Toluene	11
Ethyl-Benzene	151
Total Xylenes	227
1, 2 DCA	<1

MW-20 (On-Site)	12/10/15
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-10 (On-Site)	12/10/15
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-18 (On-Site)	12/10/15
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-16 (Off-Site)	12/10/15
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-9 (Off Site)	12/10/15
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-19 (On-Site)	12/10/15
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

FARMER'S MUTUAL IRRIGATION DITCH

WESTSIDE IRRIGATION DITCH

DITCH IS FILLED IN AT THIS LOCATION

DITCH IS FILLED IN AT THIS LOCATION

MURRAY PROPERTY DITCH

100 0 200

SCALE IN FEET

TRC

2015 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRKLAND, NEW MEXICO

DATE: 4-12-16 DRWN: ERH

BTEX CONCENTRATION MAP
DECEMBER 2015

FIGURE 3

File: K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\2016\209783 Fig. 3 On-site BTEX Map 2015.dwg Layout: FIG 3 User: ehoverl Plotted: Apr 12, 2016 - 4:17pm Xref's:

Certificate of Analysis

eANALYTICS LABORATORY

December 21, 2015

Client: TRC
131 E. Lincoln
Suite 200
Fort Collins, CO 80524

Project: Maverik

Lab ID: 4337

Date Received: 12/14/15

Number of Samples Received: 14

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

Analysis	EPA Method	Lab ID on COC
BTEX / 1,2-DCA	8260C	1 - 14
Dissolved Sulfate	300.0	8 - 13

All quality control analyses associated with the requested analyses were satisfactorily passed before the samples were run. If you have any questions please give us a call, we are happy to help.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you, we truly appreciate your business.

Sincerely,

Christopher Dieken
Quality Assurance Manager

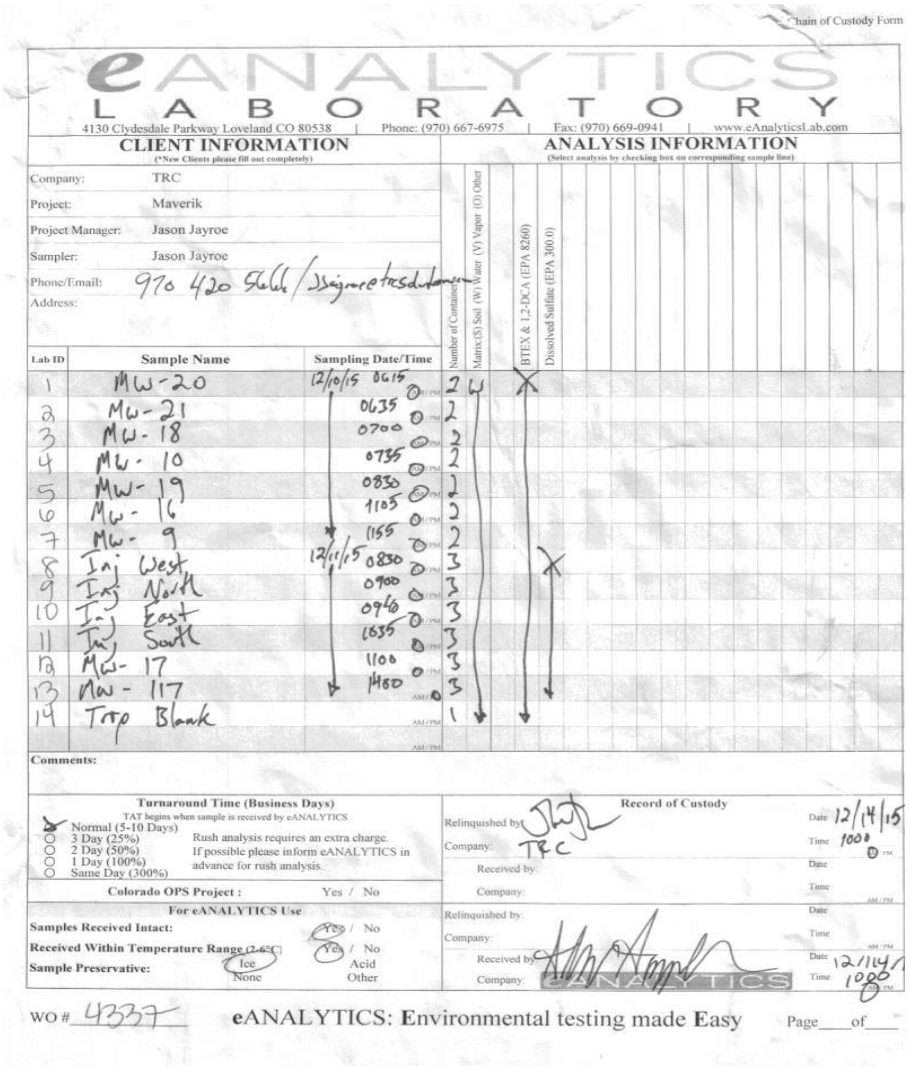
Todd Rhea
Laboratory Manager

eAnalytics Laboratory
(970) 667-6975
info@eAnalyticsLab.com

Certificate of Analysis

Chain of Custody | **December 21, 2015**

eANALYTICS LABORATORY



Chain of Custody Form

eANALYTICS LABORATORY

4130 Clydesdale Parkway Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION (*New Clients please fill out completely)

Company: TRC
Project: Maverik
Project Manager: Jason Jayroe
Sampler: Jason Jayroe
Phone/Email: 970 420 [illegible] / [illegible]
Address:

ANALYSIS INFORMATION (Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix (S) Soil (W) Water (V) Vapor (O) Other	BTEX & 1,2-DCA (EPA 8260)	Dissolved Sulfate (EPA 300.0)
1	MW-20	12/10/15 0615	2	W	X	
2	MW-21	0635	2			
3	MW-18	0700	2			
4	MW-10	0735	2			
5	MW-19	0830	2			
6	MW-16	1105	3			
7	MW-9	1155	2			
8	Inj West	12/11/15 0830	3		X	
9	Inj North	0900	3			
10	Inj East	0940	3			
11	Inj South	1035	3			
12	MW-17	1100	3			
13	MW-117	1150	3			
14	Trip Blank		1			

Comments:

Turnaround Time (Business Days)
TAT begins when sample is received by eANALYTICS
- [x] Normal (5-10 Days)
- [ ] 3 Day (25%)
- [ ] 2 Day (50%)
- [ ] 1 Day (100%)
- [ ] Same Day (300%)

Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.

Colorado OPS Project : Yes / No

For eANALYTICS Use
Samples Received Intact: Yes / No
Received Within Temperature Range (2-6°C): Yes / No
Sample Preservative: Ice / None / Acid / Other

Record of Custody
Relinquished by: [signature] Company: TRC Date 12/14/15 Time 1000
Received by: Company: Date Time
Relinquished by: Company: Date Time
Received by: [signature] Company: eANALYTICS Date 12/14/15 Time 1080

WO # 4337

eANALYTICS: Environmental testing made Easy

Page ___ of ___

Certificate of Analysis

Sample Analysis | eANALYTICS LABORATORY | **December 21, 2015**

Client: TRC
131 E. Lincoln
Suite 200
Fort Collins, CO 80524

Project: Maverik

Lab ID: 4337

Matrix: WATER
Batch ID: W 4337

EPA Method: 8260C BTEX / 1,2-DCA
300.0 Dissolved Sulfate

Sample Name	Benzene mg/L	Toluene mg/L	Ethyl-Benzene mg/L	Total Xylenes mg/L	1,2-DCA mg/L	Dis. Sulfate mg/L	Date Sampled	Date Analyzed	Lab ID
MW-20	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/10/15	12/15/15	4337-1
MW-21	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/10/15	12/15/15	4337-2
MW-18	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/10/15	12/15/15	4337-3
MW-10	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/10/15	12/15/15	4337-4
MW-19	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/10/15	12/15/15	4337-5
MW-16	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/10/15	12/15/15	4337-6
MW-9	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/10/15	12/15/15	4337-7
Inj West	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	5423	12/11/15	12/15/15	4337-8
Inj North	0.370	0.229	0.402	2.27	< 0.001	5815	12/11/15	12/15/15	4337-9
Inj East	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	3002	12/11/15	12/15/15	4337-10
Inj South	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	2305	12/11/15	12/15/15	4337-11
MW-17	0.290	0.011	0.151	0.227	< 0.001	2914	12/11/15	12/15/15	4337-12
MW-117	0.276	0.010	0.143	0.222	< 0.001	3512	12/11/15	12/15/15	4337-13
Trip Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		12/11/15	12/15/15	4337-14

Certificate of Analysis

Surrogate Recoveries (%)

eANALYTICS LABORATORY

December 21, 2015

Client: TRC
131 E. Lincoln
Suite 200
Fort Collins, CO 80524

Project: Maverik

Lab ID: 4337

EPA Method: 8260C

Sample Name	Dibromofluoromethane (70-130%)	1,2-Dichloroethane-D4 (70-130%)	Toluene-D8 (70-130%)	Bromofluorobenzene (70-130%)	Date Sampled	Date Analyzed	Lab ID
MW-20	102	105	99	101	12/10/15	12/15/15	4337-1
MW-21	110	104	97	104	12/10/15	12/15/15	4337-2
MW-18	107	107	98	105	12/10/15	12/15/15	4337-3
MW-10	110	107	96	101	12/10/15	12/15/15	4337-4
MW-19	107	106	97	105	12/10/15	12/15/15	4337-5
MW-16	109	110	99	101	12/10/15	12/15/15	4337-6
MW-9	108	107	98	102	12/10/15	12/15/15	4337-7
Inj West	88	110	96	103	12/11/15	12/15/15	4337-8
Inj North	82	95	99	101	12/11/15	12/15/15	4337-9
Inj East	73	109	97	105	12/11/15	12/15/15	4337-10
Inj South	78	103	100	110	12/11/15	12/15/15	4337-11
MW-17	97	95	101	107	12/11/15	12/15/15	4337-12
MW-117	96	94	101	106	12/11/15	12/15/15	4337-13
Trip Blank	102	97	100	108	12/11/15	12/15/15	4337-14

Certificate of Analysis

Quality Control Analysis

eANALYTICS LABORATORY

December 21, 2015

Client: TRC
131 E. Lincoln
Suite 200
Fort Collins, CO 80524

Project: Maverik

Lab ID: 4337

Matrix: WATER
Batch ID: W 4337

EPA Method: 8260C
300.0

BTEX / 1,2-DCA
Dissolved Sulfate

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl-Benzene % Rec	Total Xylenes % Rec	1,2-DCA % Rec	Dis. Sulfate % Rec		Date Analyzed	Lab ID
LCS	91	90	101	94	93	98		12/15/15	L 12/15/15
(70-130%)									
CCV	94	97	99	89	97			12/15/15	C 12/15/15
(80-120%)									
Reagent Blank	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.5		12/15/15	RB 12/15/15
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L			

131 E. Lincoln Ave.
Suite 200
Fort Collins, CO 80524

970.484.3263 PHONE
970.484.3250 FAX

www.trcsolutions.com

March 3, 2017

Jim Griswold
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject: **2016 Annual Groundwater Report, Maverik Country Stores (Former Caribou Refinery), Kirtland, New Mexico**

Dear Mr. Griswold:

This report provides the results of the 2016 Site activities for the Maverik Country Stores site (former Caribou Refinery) in Kirtland, New Mexico (**Figure 1**). These activities were completed during the 2016 calendar year to meet the annual monitoring requirements for the site. The scope of work completed included:

- Annual fluid level measurements of 24 on-site and off-site wells;
- Annual low-flow groundwater sampling of 11 on-site and 2 off-site wells;
- Annual analytical evaluation of VOCs and dissolved sulfate in groundwater samples from 5 on-site wells, along with analytical evaluation of VOCs from 6 on-site and 2 off-site monitoring wells.

Field methods, results, and the conclusions from the 2016 field events are discussed below.

Annual Groundwater Sampling

Annual groundwater sampling activities were conducted on December 27 and 28, 2016. Prior to well sampling, site-wide fluid levels were measured using an oil/water interface probe (**Table 1**) for compilation of the site potentiometric surface map (**Figure 2**). Fluid levels were not obtainable from two of the site wells including:

- MW-04 (has been converted to an irrigation well within a pump house by Mr. Roland Jackson); and

- MW-01 A blockage at approximately 2 feet below ground surface prevented collecting a fluid level measurement from this well.

None of the monitoring wells contained measurable thicknesses of LNAPL during this event. Based on the December 2016 groundwater elevations, the groundwater flow direction is to the south-southwest across the site toward the San Juan River. A horizontal gradient was calculated ranging from 0.011 ft/ft near the northern portion site to 0.009 ft/ft the southern portion of the site in the residential area (**Figure 2**). This flow direction is consistent with past monitoring events.

Nine monitoring wells and the four injection wells were sampled as part of the regular annual groundwater sampling event. All wells were sampled utilizing a peristaltic pump and flow-through cell. Groundwater field parameters pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured using a flow through cell and YSI 556 MPS during groundwater sampling. Groundwater samples were sent to ALS in Fort Collins, Colorado under chain-of-custody (COC) protocol and analyzed for volatile organic compounds (VOCs) using EPA Method 8260C. In addition, the groundwater samples collected from MW-17 and the four injection wells (INJ-North, INJ-South, INJ-East, and INJ-West) were analyzed for dissolved sulfate using EPA Method 300.0. Laboratory deliverables are provided in **Attachment A**. Results of the groundwater sampling are summarized in **Table 2**. The results show that constituents of concern BTEX and 1,2 dichloroethane (1,2-DCA) concentrations are confined within the slurry wall impoundment area (**Figure 3**). Dissolved sulfate was detected in MW-17 and the four injection wells. No VOC concentrations were detected in down-gradient wells (MW-10, MW-19, and MW-20) outside the slurry wall, cross gradient wells (MW-9, MW-16, and MW-21) or the up-gradient well, MW-18, located on the northern edge of the slurry wall **(Table 2)**.

Well MW-21 on the east side of the impoundment has an elevated conductivity level, almost an order of magnitude above other site wells. Well MW-18, on the north side of the impoundment, also revealed an elevated conductivity level, before being purged dry. The elevated conductivity in these wells is presumed to be related to salt solutions that are used and stored at the neighboring property.

Summary and Conclusions

The annual groundwater sampling was completed during the week of December 26th, 2016. Fluid levels were measured in 24 wells to establish groundwater flow conditions. Across the site groundwater flow is to the south-southwest, toward the San Juan River. Groundwater results were below New Mexico Groundwater Standards for all 8260 VOCs with the exception of injection well INJ-North located within the slurry wall impoundment area. Groundwater sampled from INJ-North exceeded the New Mexico Groundwater Standards of 10 µg/L for Benzene and 100 µg/L for total xylenes with detections of 48 µg/L and 1,070 µg/L, respectively.

The groundwater sampling data suggest that the In Situ Chemical Oxidation (ISCO) injections were successful in decreasing the concentrations of VOCs within the slurry wall. Overall, the slurry wall impoundment is functioning as designed and no off-site migration of constituents of concern is occurring. However, Maverik plans to conduct an additional round of ISCO injections to treat the VOC's that persist within the slurry wall. The proposed additional round of ISCO injections field work will begin late summer/ fall 2017.

Sincerely,



Jason Jayroe
Project Manager

Tables

Table 1 – Groundwater Elevation Table
Table 2 – Analytical Results Table

Figures

Figure 1 – Site Location Map
Figure 2 – Potentiometric Surface Map, December 2016
Figure 3 – Onsite and Offsite BTEX Concentration Map, December 2016

Attachments

Attachment A – Laboratory Data

Table 1 Monitoring Well Construction Summary and December 2016 Fluid Levels, Maverik Country Stores, Inc. (Former Caribou Refinery)

Well ID	Completion Date	Total Depth (ft. BGS)	Well Diameter (in.)	Top of Steel Casing Elevation (ft. AMSL)	Top of PVC Casing Elevation (ft. AMSL)	Ground Surface Elevation (ft. AMSL)	Top of Screen (ft. BGS)	Bottom of Screen (ft. BGS)	Screen Length (ft.)	Top of Screen Elevation (ft. AMSL)	Bottom of Screen Elevation (ft. AMSL)	Depth to Groundwater (ft.) December 2016	Product Thickness (ft.)	Groundwater Elevation (ft. AMSL)	Comments
MW-1	1987	21.5	2	5207.79	5207.24	5205.75	11.5	21.5	10	5194.25	5184.25	NA	NA	NA	Well damaged
MW-2	1987	15	2	5197.10	5196.93	5195.25	5	15	10	5190.25	5180.25	9.90	NA	5187.03	
MW-3	1987	14.5	2	5183.00	5181.46	5181.06	4.5	14.5	10	5176.56	5166.56	4.68	NA	5176.78	Well damaged
MW-4	1987	15	2	5178.41	5177.1	5176.14	5	15	10	5171.14	5161.14	NM	NA	NM	Converted to irrigation well
MW-5	1987	15	2	5175.62	5175.09	5173.67	5	15	10	5168.67	5158.67	5.78	NA	5169.31	
MW-6	1987	15.5	2	5176.40	5176.01	5174.23	5.5	15.5	10	5168.73	5158.73	NM	NA	NM	Well not located
MW-7	1987	15	2	5183.71	5182.84	5181.73	5	15	10	5176.73	5166.73	6.89	NA	5175.95	
MW-8	1987	15	2	5186.00	5185.87	5184.02	5	15	10	5179.02	5169.02	6.53	NA	5179.34	
MW-9	1987	15	2	5191.39	5191.22	5189.33	5	15	10	5184.33	5174.33	6.58	NA	5184.64	
MW-10	1987	12.5	2	5189.80	5189.30	5187.47	2.5	12.5	10	5184.97	5174.97	7.05	NA	5182.25	
MW-11	1987	33	2	5197.26	5197.15	5194.97	23	33	10	5171.97	5161.97	NM	NA	NM	Abandoned 1990
MW-12	1987	12	2	5196.66	5196.19	5194.80	2	12	10	5192.80	5182.80	NM	NA	NM	Abandoned 1990
MW-13	1987	5	2	5187.76	NA	5187.56	0	5	5	5187.56	5182.56	NM	NA	NM	Destroyed
MW-14	1989	6	2	NA	5194.47	5190.70	1	6	5	5189.70	5184.70	5.82	NA	5188.65	
MW-15	1989	6	2	NA	5188.80	5185.40	1	6	5	5184.40	5179.40	Dry	NA	NA	
MW-16	1990	13	2	NA	5194.98	5193.74	3	13	10	5190.74	5180.74	8.55	NA	5186.43	
MW-17	1993	15	2	5196.49	5195.91	5193.43	5	15	10	5188.43	5178.43	10.74	NA	5185.17	
MW-18	1993	15	2	5202.27	5201.75	5199.14	5	15	10	5194.14	5184.14	13.91	NA	5187.84	
MW-19	1990	12.5	2	NA	5189.54	5188.28	2.5	12.5	10	5185.78	5175.78	5.76	NA	5183.78	
MW-20	1990	12	2	NA	5191.05	5190.10	2	12	10	5188.10	5178.10	7.42	NA	5183.63	
MW-21	1990	13	2	NA	5194.81	5193.62	3	13	10	5190.62	5180.62	8.57	NA	5186.24	
MW-22	1990	13	2	NA	5195.86	5194.58	3	13	10	5191.58	5181.58	9.91	NA	5185.95	
P-1	1993	8	2	NA	5197.66	5195.74	3	8	5	5192.74	5187.74	Dry	NA	NA	
P-2	1993	8	2	NA	5192.32	5190.50	3	8	5	5187.50	5182.50	7.33	NA	5184.99	
P-3	1993	8	2	NA	5193.21	5191.44	3	8	5	5188.44	5183.44	7.04	NA	5186.17	
P-4	1993	8	2	NA	5198.82	5197.06	3	8	5	5194.06	5189.06	Dry	NA	NA	
INJ-N	2012	15	2	NA	NA	NA	5	15	10	NA	NA	10.29	NA	NA	
INJ-E	2012	15	2	NA	NA	NA	5	15	10	NA	NA	10.56	NA	NA	
INJ-S	2012	15	2	NA	NA	NA	5	15	10	NA	NA	10.72	NA	NA	
INJ-W	2012	15	2	NA	NA	NA	5	15	10	NA	NA	9.89	NA	NA	

Notes:

AMSL = Above mean sea level
BGS = Below ground surface
NM = Not Measured
NA = Not Applicable
ft =feet
in = inches

Table 2 Groundwater Results, Annually Sampled Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Sample Name	Groundwater Standard*	Injection North	Injection North	Injection North	Injection West	Injection West	Injection West	Injection South	Injection South	Injection South	Injection East	Injection East	Injection East
Date		12/7/2014	12/11/2015	12/27/2016	12/7/2014	12/11/2015	12/27/2016	12/7/2014	12/11/2015	12/27/2016	12/7/2014	12/11/2015	12/27/2016
Analyte		ug/L	µg/L	µg/L	ug/L	µg/L	µg/L	ug/L	µg/L	µg/L	ug/L	µg/L	µg/L
Benzene	10	1	**370**	**48**	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	NS	<1	**229**	**19**	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl-Benzene	750	<1	**402**	**10**	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylenes	100	<1	**2,270**	**1,070**	<1	<1	<1	<1	<1	**0.33**	<1	<1	<1
1,2-DCA	10	**18**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dis. Sulfate	6000000	1275000	**5,815,000**	**3,100,000**	675000	**5,423,000**	**4,400,000**	295000	**2,305,000**	**1,900,000**	295000	**3,002,000**	**1,600,000**

Sample Name	Groundwater Standard*	MW-17	MW-17	MW-17	MW-117 (MW-17 Dup)	MW-117 (MW-17 Dup)	MW-117 (MW-17 Dup)	MW-22	MW-22	MW-10	MW-10	MW-10
Date		12/7/2014	12/11/2015	12/27/2016	12/7/2014	12/11/2015	12/27/2016	12/7/2014	12/27/2016	12/7/2014	12/10/2015	12/27/2016
Analyte		ug/L	µg/L	µg/L	ug/L	µg/L	µg/L	ug/L	µg/L	ug/L	µg/L	µg/L
Benzene	10	<1	**290**	**0.74**	<1	**276**	**1.1**	**4**	**2.5**	<1	<1	<1
Toluene	NS	<1	**11**	<1	<1	**10**	<1	<1	<1	<1	<1	<1
Ethyl-Benzene	750	<1	**151**	**1.9**	<1	**143**	**3.4**	<1	**0.67**	<1	<1	<1
Total Xylenes	100	<1	**227**	**5.74**	<1	**222**	**13.2**	<1	**7.12**	<1	<1	<1
1,2-DCA	10	<1	<1	**0.44**	<1	<1	**0.39**	<1	**1.7**	<1	<1	<1
Dis. Sulfate	6000000	355000	**2,914,000**	**4,400,000**	360000	**3,512,000**	**3,800,000**	NS	NS	NS	NS	NS

Sample Name	Groundwater Standard*	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19	MW-20	MW-20	MW-20	MW-21	MW-21	MW-21
Date		12/7/2014	12/10/2015	12/27/2016	12/7/2014	12/10/2015	12/27/2016	12/7/2014	12/10/2015	12/27/2016	12/7/2014	12/10/2015	12/27/2016
Analyte		ug/L	µg/L	µg/L	ug/L	µg/L	µg/L	ug/L	µg/L	µg/L	ug/L	µg/L	µg/L
Benzene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	NS	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl-Benzene	750	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylenes	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dis. Sulfate	6000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Sample Name	Groundwater Standard*	MW-9	MW-9	MW-9	MW-16	MW-16	MW-16
Date		12/7/2014	12/10/2015	12/28/2016	12/7/2014	12/10/2015	12/28/2016
Analyte		ug/L	µg/L	µg/L	ug/L	µg/L	µg/L
Benzene	10	<1	<1	<1	<1	<1	<1
Toluene	NS	<1	<1	<1	<1	<1	<1
Ethyl-Benzene	750	<1	<1	<1	<1	<1	<1
Total Xylenes	100	<1	<1	<1	<1	<1	<1
1,2-DCA	10	<1	<1	<1	<1	<1	<1
Dis. Sulfate	6000000	NS	NS	NS	NS	NS	NS

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103

NS - Not sampled

J - Estimated result. Result is less than RL

U - Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

Bold - Detected result

Highlighted - Result Exceeds New Mexico Groundwater Standard

LEGEND

- MW-2 — MONITORING WELL
- P1 — PIEZOMETER
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

Co. Road 6261
Co. Road 6257
Co. Road D 6255
Co. Road D 6259
Co. Road D 6263
Co. Road D 6271
CO. Road 6100
U.S. Highway 64
Road
O. Curley
I. Hull
E. Mclemore
E. Gray
J.L. Flack
R. Neff
G. Nelson
R. Jackson
A. Jackson
Ryan
WM. H. Walker
M. Stone
(Out of Service)
MW-1
MW-2
MW-3
MW-4
MW-5
MW-7
MW-8
MW-9
MW-10
MW-13
MW-14
MW-15
MW-16
MW-17
MW-19
MW-20
MW-21
MW-22
P1
P2
P3
P4
WESTSIDE IRRIGATION DITCH
FARMER'S MUTUAL IRRIGATION DITCH
MURRAY PROPERTY DITCH
DITCH IS FILLED IN AT THIS LOCATION
DITCH IS FILLED IN AT THIS LOCATION

100 0 200
SCALE IN FEET

TRC

2016 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRTLAND, NEW MEXICO

DATE: 02-09-17 | DRWN: ERH

SITE LOCATION MAP
DECEMBER 2016

FIGURE 1

K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\2017\209783 Fig. 1 Site Location Map 2016.dwg, 2/9/2017 1:23:12 PM

LEGEND

- MW-2 — MONITORING WELL
- P1 — PIEZOMETER
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- GROUNDWATER ELEVATION CONTOURS
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

Co. Road 6257

Co. Road 6261

Co. Road D 6259

Co. Road D 6263

Co. Road D 6271

CO. Road 6100

U.S. Highway 64

Road

E. Mclemore

E. Gray

J.L. Flack

R. Neff

O. Curley

I. Hull

G. Nelson

R. Jackson

A. Jackson

Ryan

WM. H. Walker

M. Stone

MW-2 5187.03

MW-1 NA

MW-21 5186.24

MW-20 5183.63

MW-10 5182.25

MW-15 5181.92

MW-3 5176.78

MW-22 5285.95

MW-18 5187.84

MW-17 5285.17

MW-19 5183.78

P1

P2

P3

P4

MW-16 5186.43

MW-14 5188.65

MW-9 5184.64

MW-7 5175.95

MW-4 NM

MW-8 5178.76

MW-5 5169.31

DITCH IS FILLED IN AT THIS LOCATION

(Out of Service)

DITCH IS FILLED IN AT THIS LOCATION

WESTSIDE IRRIGATION DITCH

FARMER'S MUTUAL IRRIGATION DITCH

MURRAY PROPERTY DITCH

5187

5185

5183

5181

5179

5177

5175

5173

5171

100 0 200

SCALE IN FEET

K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\2017\209783 Fig. 2 Surface Map 2016.dwg, 2/9/2017 1:28:01 PM

TRC

2016 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRTLAND, NEW MEXICO

DATE: 02-09-17 | DRWN: ERH

POTENTIOMETRIC SURFACE MAP
DECEMBER 2016

FIGURE 2

LEGEND

- MW-2 — MONITORING WELL
- P1 — PIEZOMETER
- INJ-W — INJECTION WELLS
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

ALL RESULTS ARE IN MICROGRAMS PER LITER (µg/L)
J - ESTIMATED CONCENTRATION

Co. Road 6257
Co. Road 6261
Co. Road D 6255
Co. Road D 6259
Co. Road D 6263
Co. Road D 6271
CO. Road 6100
Road
U.S. Highway 64

E. Mclemore
E. Gray
J.L. Flack
R. Neff
I. Hull
O. Curley
G. Nelson
R. Jackson
A. Jackson
Ryan
M. Stone
WM. H. Walker

FARMER'S MUTUAL IRRIGATION DITCH
WESTSIDE IRRIGATION DITCH
MURRAY PROPERTY DITCH
DITCH IS FILLED IN AT THIS LOCATION
DITCH IS FILLED IN AT THIS LOCATION
(Out of Service)

INJ-W (Within Slurry Wall)	12/27/16
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-21 (On-Site)	12/27/16
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-17 (Within Slurry Wall)	12/27/16
Benzene	.74
Toluene	<1
Ethyl-Benzene	1.9
Total Xylenes	574
1, 2 DCA	.44

MW-20 (On-Site)	12/27/16
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-22 (On-Site)	12/27/16
Benzene	2.5
Toluene	<1
Ethyl-Benzene	0.67
Total Xylenes	7.12
1, 2 DCA	1.7

MW-10 (On-Site)	12/27/16
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

INJ-N (Within Slurry Wall)	12/27/16
Benzene	**48**
Toluene	19
Ethyl-Benzene	10
Total Xylenes	**1,070**
1, 2 DCA	<1

MW-19 (On-Site)	12/27/16
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-18 (On-Site)	12/27/16
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-16 (Off-Site)	12/28/16
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

INJ-E (Within Slurry Wall)	12/27/16
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-9 (Off Site)	12/28/16
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

INJ-S (Within Slurry Wall)	12/27/16
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	.33
1, 2 DCA	<1

MW-1
MW-2 5187.03
MW-21 5186.24
MW-20 5183.63
MW-10 5182.25
MW-15 5181.92
MW-3 5176.78
MW-22 5185.95
MW-18 5187.84
MW-17 5185.17
MW-19 5183.78
MW-16 5186.43
MW-14 5188.65
MW-9 5184.64
MW-7 5175.95
MW-8 5178.76
MW-4
MW-5 5169.31
P1
P2
P3
P4
INJ-W
INJ-N
INJ-E
INJ-S

100 0 200
SCALE IN FEET

TRC

2016 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRTLAND, NEW MEXICO

DATE: 02-09-17 | DRWN: ERH

BTEX CONCENTRATION MAP
DECEMBER 2016

FIGURE 3

K:\MAVERIK, INC\209783.0000.0000 Caribou Refinery 2013\Drawings\2017\209783 Fig. 3 On-site BTEX Map 2016.dwg, 2/9/2017 1:26:43 PM

Monday, January 09, 2017

Jason Jayroe
TRC
131 East Lincoln Ave.
Fort Collins, CO 80524

Re: ALS Workorder: 1612452
Project Name: Maverik Kirtland
Project Number:

Dear Mr. Jayroe:

Fifteen water samples were received from TRC, on 12/29/2016. The samples were scheduled for the following analyses:

GC/MS Volatiles
Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Julie Ellingson
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
AIHA	214884
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Louisiana (LA)	05057
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

1612452

GC/MS Volatiles:
The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

- Samples -6, -7, -10, -11, -12 and -14 had a pH > 2 at the time of analysis.

- All surrogate recoveries were within acceptance criteria with the following exceptions:

Surrogate	Sample	Direction
Dibromofluoromethane	-6, -7, -10 & -11	Low

These samples, with the exception of -11, had a pH of 12 at the time of analysis which causes the surrogates to recover low. Sample -11 was re-analyzed at a higher dilution due to the concentration of target analytes. The surrogates were within acceptance limits in the re-analyzed sample, which suggest matrix interferences may be present in the less dilute sample.

All remaining acceptance criteria were met.

Inorganics:
The samples were analyzed following EMSL procedures for the current revision of the following SOP and method:

Analyte	Method	SOP #
Sulfate	300.0 Revision 2.1	1113

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 1612452
Client Name: TRC
Client Project Name: Maverik Kirtland
Client Project Number:
Client PO Number: 103907

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
MW-20	1612452-1		WATER	27-Dec-16	8:00
MW-21	1612452-2		WATER	27-Dec-16	8:30
MW-18	1612452-3		WATER	27-Dec-16	9:00
MW-10	1612452-4		WATER	27-Dec-16	9:30
MW-19	1612452-5		WATER	27-Dec-16	10:05
Inj-West	1612452-6		WATER	27-Dec-16	10:30
Inj-South	1612452-7		WATER	27-Dec-16	11:15
MW-17	1612452-8		WATER	27-Dec-16	11:50
MW-117	1612452-9		WATER	27-Dec-16	19:00
Inj-East	1612452-10		WATER	27-Dec-16	12:45
Inj-North	1612452-11		WATER	27-Dec-16	13:35
MW-22	1612452-12		WATER	27-Dec-16	14:25
MW-16	1612452-13		WATER	28-Dec-16	8:30
MW-9	1612452-14		WATER	28-Dec-16	10:00
Trip Blank	1612452-15		WATER	28-Dec-16	

1612452

Chain of Custody Form

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION

(*New Clients please fill out completely)

Company: ~~AECOM~~ TRC

Project: Mawrik Kirtland

Project Manager: Jason Jayroe

Sampler: JS

Phone/Email: 970 420 5646 - JJayroe@trcsolutions.com

Address:

ANALYSIS INFORMATION

(Select analysis by checking box on corresponding sample line)

Lab ID	Sample Name	Sampling Date/Time	Number of Containers	Matrix: (S) Soil (W) Water (V) Vapor (O) Other	BTEX + ~~TMB~~ (EPA 8260)	~~EDB (EPA 504.1)~~ 1,2 DCA	Vapor BTEX / TVPH (EPA TO-14)	Full VOC (EPA 8260)	Semi-Volatiles (Full List / PAH's)	TRPH / Oil & Grease	RCRA 8 Metals (Total / TCLP / Dissolved)	React. / Ignit. / Corrosivity / Paint Filter	pH / TSS / TDS	Metals (Specify)	PCBs / Pesticides / Herbicides	Sulfate (300.0)	Other Analysis
1	MW-20	12/27/16 0800 AM/PM	3	W	X	X											
2	MW-21	0830 AM/PM															
3	MW-18	0900 AM/PM															
4	MW-10	0930 AM/PM															
5	MW-19	1005 AM/PM															
6	Inj-West	1030 AM/PM									1 250 poly					X	
7	Inj-South	1115 AM/PM												17			
8	MW-17	1150 AM/PM												18			
9	MW-117	1900 AM/PM												19			
10	Inj-East	1245 AM/PM												20			
11	Inj-North	1335 AM/PM												21		X	
12	MW-22	1425 AM/PM															
13	MW-16	12/28/16 0830 AM/PM															
14	MW-9	12/28/16 1000 AM/PM	1														
15	Trip blank	AM/PM	1	W	X	X											

unpreserved

Comments: MW-9 was collected in one unpreserved VOA

Turnaround Time (Business Days)

TAT begins when sample is received by eANALYTICS

- [x] Normal (5-10 Days)
- [ ] 3 Day (25%)
- [ ] 2 Day (50%)
- [ ] 1 Day (100%)
- [ ] Same Day (300%)

Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.

Colorado OPS Project : Yes / No

Record of Custody

Relinquished by: [signature] Date 12/29/16

Company: TRC Time 1400 AM/PM

Received by: [signature] Date 12/29/16

Company: ALS Time 1300 AM/PM

Relinquished by: Date

Company: Time AM/PM

Received by: Date

Company: eANALYTICS Time AM/PM

For eANALYTICS Use

Samples Received Intact: Yes / No

Received Within Temperature Range (2-6°C) Yes / No

Sample Preservative: Ice / None / Acid / Other

WO # _____

eANALYTICS: Environmental testing made Easy

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: TRC Workorder No: 1612452

Project Manager: JE Initials: JWS Date: 12·29·16

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	(NONE)	YES	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7. Were airbills / shipping documents present and/or removable?	(DROP OFF)	YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	(YES)	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	(YES)	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	(YES)	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	(NO)
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4	RAD ONLY	(YES)	NO

Cooler #:	1							
Temperature (°C):	5							
No. of custody seals on cooler:	Ø							
DOT Survey/ Acceptance Information — External µR/hr reading:	-							
Background µR/hr reading:	-							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? **YES / NO / NA** (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? **YES / NO** (NA) Contact: _____ Date/Time: _____

Project Manager Signature / Date: 12/29/16

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: MW-20 **Lab ID:** 1612452-1
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2016 08:00 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 16:01
BENZENE	ND		1	UG/L	1	12/30/2016 16:01
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 16:01
M+P-XYLENE	ND		1	UG/L	1	12/30/2016 16:01
O-XYLENE	ND		1	UG/L	1	12/30/2016 16:01
TOLUENE	ND		1	UG/L	1	12/30/2016 16:01
Surr: 4-BROMOFLUOROBENZENE	*101*		*85-115*	*%REC*	1	12/30/2016 16:01
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	12/30/2016 16:01
Surr: TOLUENE-D8	*96*		*85-115*	*%REC*	1	12/30/2016 16:01

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: MW-21 **Lab ID:** 1612452-2
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2016 08:30 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 16:22
BENZENE	ND		1	UG/L	1	12/30/2016 16:22
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 16:22
M+P-XYLENE	ND		1	UG/L	1	12/30/2016 16:22
O-XYLENE	ND		1	UG/L	1	12/30/2016 16:22
TOLUENE	ND		1	UG/L	1	12/30/2016 16:22
Surr: 4-BROMOFLUOROBENZENE	*101*		*85-115*	*%REC*	1	12/30/2016 16:22
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	12/30/2016 16:22
Surr: TOLUENE-D8	*95*		*85-115*	*%REC*	1	12/30/2016 16:22

Client:	TRC	**Date:**	*09-Jan-17*
Project:	Maverik Kirtland	**Work Order:**	1612452
Sample ID:	MW-18	**Lab ID:**	1612452-3
Legal Location:		**Matrix:**	WATER
Collection Date:	12/27/2016 09:00	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 16:43
BENZENE	ND		1	UG/L	1	12/30/2016 16:43
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 16:43
M+P-XYLENE	ND		1	UG/L	1	12/30/2016 16:43
O-XYLENE	ND		1	UG/L	1	12/30/2016 16:43
TOLUENE	ND		1	UG/L	1	12/30/2016 16:43
Surr: 4-BROMOFLUOROBENZENE	*101*		*85-115*	*%REC*	1	12/30/2016 16:43
Surr: DIBROMOFLUOROMETHANE	*97*		*84-118*	*%REC*	1	12/30/2016 16:43
Surr: TOLUENE-D8	*97*		*85-115*	*%REC*	1	12/30/2016 16:43

Client:	TRC	**Date:**	*09-Jan-17*
Project:	Maverik Kirtland	**Work Order:**	1612452
Sample ID:	MW-10	**Lab ID:**	1612452-4
Legal Location:		**Matrix:**	WATER
Collection Date:	12/27/2016 09:30	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 17:05
BENZENE	ND		1	UG/L	1	12/30/2016 17:05
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 17:05
M+P-XYLENE	ND		1	UG/L	1	12/30/2016 17:05
O-XYLENE	ND		1	UG/L	1	12/30/2016 17:05
TOLUENE	ND		1	UG/L	1	12/30/2016 17:05
Surr: 4-BROMOFLUOROBENZENE	*101*		*85-115*	*%REC*	1	12/30/2016 17:05
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	12/30/2016 17:05
Surr: TOLUENE-D8	*96*		*85-115*	*%REC*	1	12/30/2016 17:05

Client:	TRC	**Date:**	*09-Jan-17*
Project:	Maverik Kirtland	**Work Order:**	1612452
Sample ID:	MW-19	**Lab ID:**	1612452-5
Legal Location:		**Matrix:**	WATER
Collection Date:	12/27/2016 10:05	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 17:26
BENZENE	ND		1	UG/L	1	12/30/2016 17:26
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 17:26
M+P-XYLENE	ND		1	UG/L	1	12/30/2016 17:26
O-XYLENE	ND		1	UG/L	1	12/30/2016 17:26
TOLUENE	ND		1	UG/L	1	12/30/2016 17:26
Surr: 4-BROMOFLUOROBENZENE	*100*		*85-115*	*%REC*	1	12/30/2016 17:26
Surr: DIBROMOFLUOROMETHANE	*98*		*84-118*	*%REC*	1	12/30/2016 17:26
Surr: TOLUENE-D8	*95*		*85-115*	*%REC*	1	12/30/2016 17:26

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: Inj-West **Lab ID:** 1612452-6
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2016 10:30 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 17:47
BENZENE	ND		1	UG/L	1	12/30/2016 17:47
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 17:47
M+P-XYLENE	ND		1	UG/L	1	12/30/2016 17:47
O-XYLENE	ND		1	UG/L	1	12/30/2016 17:47
TOLUENE	ND		1	UG/L	1	12/30/2016 17:47
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	12/30/2016 17:47
Surr: DIBROMOFLUOROMETHANE	*48*	*	*84-118*	*%REC*	1	12/30/2016 17:47
Surr: TOLUENE-D8	*97*		*85-115*	*%REC*	1	12/30/2016 17:47
Ion Chromatography			**EPA300.0**	Prep Date: **1/5/2017**		PrepBy: **AMG**
SULFATE	**4400**		**200**	**MG/L**	200	1/5/2017 15:54

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: Inj-South **Lab ID:** 1612452-7
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2016 11:15 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 18:08
BENZENE	ND		1	UG/L	1	12/30/2016 18:08
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 18:08
M+P-XYLENE	**0.33**	J	**1**	**UG/L**	1	12/30/2016 18:08
O-XYLENE	ND		1	UG/L	1	12/30/2016 18:08
TOLUENE	ND		1	UG/L	1	12/30/2016 18:08
Surr: 4-BROMOFLUOROBENZENE	*100*		*85-115*	*%REC*	1	12/30/2016 18:08
Surr: DIBROMOFLUOROMETHANE	*38*	*	*84-118*	*%REC*	1	12/30/2016 18:08
Surr: TOLUENE-D8	*96*		*85-115*	*%REC*	1	12/30/2016 18:08
Ion Chromatography			**EPA300.0**	Prep Date: **1/5/2017**		PrepBy: **AMG**
SULFATE	**1900**		**20**	**MG/L**	20	1/6/2017 13:38

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: MW-17 **Lab ID:** 1612452-8
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2016 11:50 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	**0.44**	J	**1**	**UG/L**	1	12/30/2016 18:30
BENZENE	**0.74**	J	**1**	**UG/L**	1	12/30/2016 18:30
ETHYLBENZENE	**1.9**		**1**	**UG/L**	1	12/30/2016 18:30
M+P-XYLENE	**4.8**		**1**	**UG/L**	1	12/30/2016 18:30
O-XYLENE	**0.94**	J	**1**	**UG/L**	1	12/30/2016 18:30
TOLUENE	ND		1	UG/L	1	12/30/2016 18:30
Surr: 4-BROMOFLUOROBENZENE	*100*		*85-115*	*%REC*	1	12/30/2016 18:30
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	12/30/2016 18:30
Surr: TOLUENE-D8	*98*		*85-115*	*%REC*	1	12/30/2016 18:30
Ion Chromatography			**EPA300.0**	Prep Date: **1/5/2017**		PrepBy: **AMG**
SULFATE	**4400**		**100**	**MG/L**	100	1/5/2017 16:54

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: MW-117 **Lab ID:** 1612452-9
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2016 19:00 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	**0.39**	J	**1**	**UG/L**	1	12/30/2016 18:51
BENZENE	**1.1**		**1**	**UG/L**	1	12/30/2016 18:51
ETHYLBENZENE	**3.4**		**1**	**UG/L**	1	12/30/2016 18:51
M+P-XYLENE	**11**		**1**	**UG/L**	1	12/30/2016 18:51
O-XYLENE	**2.2**		**1**	**UG/L**	1	12/30/2016 18:51
TOLUENE	ND		1	UG/L	1	12/30/2016 18:51
Surr: 4-BROMOFLUOROBENZENE	*98*		*85-115*	*%REC*	1	12/30/2016 18:51
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	12/30/2016 18:51
Surr: TOLUENE-D8	*99*		*85-115*	*%REC*	1	12/30/2016 18:51
Ion Chromatography			**EPA300.0**	Prep Date: **1/5/2017**		PrepBy: **AMG**
SULFATE	**3800**		**100**	**MG/L**	100	1/5/2017 17:09

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: Inj-East **Lab ID:** 1612452-10
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2016 12:45 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 19:12
BENZENE	ND		1	UG/L	1	12/30/2016 19:12
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 19:12
M+P-XYLENE	ND		1	UG/L	1	12/30/2016 19:12
O-XYLENE	ND		1	UG/L	1	12/30/2016 19:12
TOLUENE	ND		1	UG/L	1	12/30/2016 19:12
Surr: 4-BROMOFLUOROBENZENE	*100*		*85-115*	*%REC*	1	12/30/2016 19:12
Surr: DIBROMOFLUOROMETHANE	*35*	*	*84-118*	*%REC*	1	12/30/2016 19:12
Surr: TOLUENE-D8	*97*		*85-115*	*%REC*	1	12/30/2016 19:12
Ion Chromatography			**EPA300.0**	Prep Date: **1/5/2017**		PrepBy: **AMG**
SULFATE	**1600**		**120**	**MG/L**	125	1/5/2017 17:24

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: Inj-North **Lab ID:** 1612452-11
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2016 13:35 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 19:33
BENZENE	**48**		**1**	**UG/L**	1	12/30/2016 19:33
ETHYLBENZENE	**10**		**1**	**UG/L**	1	12/30/2016 19:33
M+P-XYLENE	**660**		**25**	**UG/L**	25	12/30/2016 19:55
O-XYLENE	**410**		**25**	**UG/L**	25	12/30/2016 19:55
TOLUENE	**19**		**1**	**UG/L**	1	12/30/2016 19:33
Surr: 4-BROMOFLUOROBENZENE	*98*		*85-115*	*%REC*	25	12/30/2016 19:55
Surr: 4-BROMOFLUOROBENZENE	*100*		*85-115*	*%REC*	1	12/30/2016 19:33
Surr: DIBROMOFLUOROMETHANE	*95*		*84-118*	*%REC*	25	12/30/2016 19:55
Surr: DIBROMOFLUOROMETHANE	*60*	*	*84-118*	*%REC*	1	12/30/2016 19:33
Surr: TOLUENE-D8	*97*		*85-115*	*%REC*	25	12/30/2016 19:55
Surr: TOLUENE-D8	*97*		*85-115*	*%REC*	1	12/30/2016 19:33
Ion Chromatography			**EPA300.0**	Prep Date: **1/5/2017**		PrepBy: **AMG**
SULFATE	**3100**		**40**	**MG/L**	40	1/6/2017 13:53

Client:	TRC	**Date:**	*09-Jan-17*
Project:	Maverik Kirtland	**Work Order:**	1612452
Sample ID:	MW-22	**Lab ID:**	1612452-12
Legal Location:		**Matrix:**	WATER
Collection Date:	12/27/2016 14:25	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	**1.7**		**1**	**UG/L**	1	12/30/2016 20:16
BENZENE	**2.5**		**1**	**UG/L**	1	12/30/2016 20:16
ETHYLBENZENE	**0.67**	J	**1**	**UG/L**	1	12/30/2016 20:16
M+P-XYLENE	**6.4**		**1**	**UG/L**	1	12/30/2016 20:16
O-XYLENE	**0.72**	J	**1**	**UG/L**	1	12/30/2016 20:16
TOLUENE	ND		1	UG/L	1	12/30/2016 20:16
Surr: 4-BROMOFLUOROBENZENE	*98*		*85-115*	*%REC*	1	12/30/2016 20:16
Surr: DIBROMOFLUOROMETHANE	*99*		*84-118*	*%REC*	1	12/30/2016 20:16
Surr: TOLUENE-D8	*98*		*85-115*	*%REC*	1	12/30/2016 20:16

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: MW-16 **Lab ID:** 1612452-13
Legal Location: **Matrix:** WATER
Collection Date: 12/28/2016 08:30 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 20:37
BENZENE	ND		1	UG/L	1	12/30/2016 20:37
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 20:37
M+P-XYLENE	ND		1	UG/L	1	12/30/2016 20:37
O-XYLENE	ND		1	UG/L	1	12/30/2016 20:37
TOLUENE	ND		1	UG/L	1	12/30/2016 20:37
Surr: 4-BROMOFLUOROBENZENE	*101*		*85-115*	*%REC*	1	12/30/2016 20:37
Surr: DIBROMOFLUOROMETHANE	*98*		*84-118*	*%REC*	1	12/30/2016 20:37
Surr: TOLUENE-D8	*95*		*85-115*	*%REC*	1	12/30/2016 20:37

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: MW-9 **Lab ID:** 1612452-14
Legal Location: **Matrix:** WATER
Collection Date: 12/28/2016 10:00 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 15:40
BENZENE	ND		1	UG/L	1	12/30/2016 15:40
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 15:40
M+P-XYLENE	ND		1	UG/L	1	12/30/2016 15:40
O-XYLENE	ND		1	UG/L	1	12/30/2016 15:40
TOLUENE	ND		1	UG/L	1	12/30/2016 15:40
Surr: 4-BROMOFLUOROBENZENE	*103*		*85-115*	*%REC*	1	12/30/2016 15:40
Surr: DIBROMOFLUOROMETHANE	*98*		*84-118*	*%REC*	1	12/30/2016 15:40
Surr: TOLUENE-D8	*97*		*85-115*	*%REC*	1	12/30/2016 15:40

Client: TRC **Date:** *09-Jan-17*
Project: Maverik Kirtland **Work Order:** 1612452
Sample ID: Trip Blank **Lab ID:** 1612452-15
Legal Location: **Matrix:** WATER
Collection Date: 12/28/2016 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **12/30/2016**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	12/30/2016 15:18
BENZENE	ND		1	UG/L	1	12/30/2016 15:18
ETHYLBENZENE	ND		1	UG/L	1	12/30/2016 15:18
M+P-XYLENE	ND		1	UG/L	1	12/30/2016 15:18
O-XYLENE	ND		1	UG/L	1	12/30/2016 15:18
TOLUENE	ND		1	UG/L	1	12/30/2016 15:18
Surr: 4-BROMOFLUOROBENZENE	*103*		*85-115*	*%REC*	1	12/30/2016 15:18
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	12/30/2016 15:18
Surr: TOLUENE-D8	*95*		*85-115*	*%REC*	1	12/30/2016 15:18

Client:	TRC	**Date:**	*09-Jan-17*
Project:	Maverik Kirtland	**Work Order:**	1612452
Sample ID:	Trip Blank	**Lab ID:**	1612452-15
Legal Location:		**Matrix:**	WATER
Collection Date:	12/28/2016	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

- Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Batch ID: **VL161230-3-1** Instrument ID: **HPV3** Method: **SW8260_25**

LCS Sample ID: **VL161230-3** Units: **%REC** Analysis Date: **12/30/2016 12:04**

Client ID: Run ID: **VL161230-3A** Prep Date: **12/30/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.7		25		99	85-115					
Surr: DIBROMOFLUOROMETHANE	25.2		25		101	84-118					
Surr: TOLUENE-D8	23.9		25		96	85-115					
1,2-DICHLOROETHANE	10.8	1	10		108	74-128				20	
BENZENE	9.96	1	10		100	83-117				20	
ETHYLBENZENE	10.6	1	10		106	81-113				20	
M+P-XYLENE	21	1	20		105	82-115				20	
O-XYLENE	10.6	1	10		106	81-115				20	
TOLUENE	10.4	1	10		104	82-113				20	

LCSD Sample ID: **VL161230-3** Units: **%REC** Analysis Date: **12/30/2016 12:25**

Client ID: Run ID: **VL161230-3A** Prep Date: **12/30/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25		25		100	85-115			1		
Surr: DIBROMOFLUOROMETHANE	25.3		25		101	84-118			0		
Surr: TOLUENE-D8	24.1		25		97	85-115			1		
1,2-DICHLOROETHANE	10.5	1	10		105	74-128		10.8	3	20	
BENZENE	9.91	1	10		99	83-117		9.96	1	20	
ETHYLBENZENE	10.3	1	10		103	81-113		10.6	3	20	
M+P-XYLENE	20.8	1	20		104	82-115		21	1	20	
O-XYLENE	10.4	1	10		104	81-115		10.6	2	20	
TOLUENE	10.2	1	10		102	82-113		10.4	2	20	

QC BATCH REPORT

Batch ID: **VL161230-3-1** Instrument ID: **HPV3** Method: **SW8260_25**

MB Sample ID: **VL161230-3** Units: **%REC** Analysis Date: **12/30/2016 13:11**

Client ID: Run ID: **VL161230-3A** Prep Date: **12/30/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26.3		25		105	85-115					
Surr: DIBROMOFLUOROMETHANE	24.6		25		98	84-118					
Surr: TOLUENE-D8	23.9		25		96	85-115					
1,2-DICHLOROETHANE	ND	1									
BENZENE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
TOLUENE	ND	1									

The following samples were analyzed in this batch:

1612452-1	1612452-2	1612452-3
1612452-4	1612452-5	1612452-6
1612452-7	1612452-8	1612452-9
1612452-10	1612452-11	1612452-12
1612452-13	1612452-14	1612452-15

Client: TRC
Work Order: 1612452
Project: Maverik Kirtland

QC BATCH REPORT

Batch ID: **IC170105-1-1** Instrument ID: **IC-2** Method: **EPA300.0**

LCS Sample ID: **IC170105-1** Units: **MG/L** Analysis Date: **1/5/2017 11:07**

Client ID: Run ID: **IC170105-1A1** Prep Date: **1/5/2017** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
SULFATE	19.9	1	20		99	90-110				15	

MB Sample ID: **IC170105-1** Units: **MG/L** Analysis Date: **1/5/2017 10:51**

Client ID: Run ID: **IC170105-1A1** Prep Date: **1/5/2017** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
SULFATE	ND	1									

The following samples were analyzed in this batch:

1612452-6	1612452-7	1612452-8
1612452-9	1612452-10	1612452-11

131 E. Lincoln Ave.
Suite 200
Fort Collins, CO 80524

970.484.3263 PHONE
970.484.3250 FAX

www.trcsolutions.com

March 23, 2018

Randolph Bayliss, P.E.
NMOCD Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject: **2017 Annual Groundwater Report, Maverik Country Stores (Former Caribou Refinery), Kirtland, New Mexico**

Dear Mr. Bayliss:

This report provides the results of the 2017 Site activities for the Maverik Country Stores site (former Caribou Refinery) in Kirtland, New Mexico (**Figure 1**). These activities were completed during the 2017 calendar year to meet the annual monitoring requirements for the site. The scope of work completed included:

- Annual fluid level measurements of 22 on-site and off-site wells;
- Annual low-flow groundwater sampling of 9 on-site and 2 off-site wells;
- Annual analytical evaluation of VOCs and dissolved sulfate in groundwater samples from 5 on-site wells, along with analytical evaluation of VOCs from 4 on-site and 2 off-site monitoring wells.

Field methods, results, and the conclusions from the 2017 field events are discussed below.

Annual Groundwater Sampling

Annual groundwater sampling activities were conducted on December 27 and 28, 2017. Prior to well sampling, site-wide fluid levels were measured using an oil/water interface probe (**Table 1**) for compilation of the site potentiometric surface map (**Figure 2**). Fluid levels were not obtainable from the following eight site wells:

- MW-01: The well has a blockage approximately 2 feet below ground surface that prevented collection of a fluid level measurement;
- MW-08: The well was inaccessible;

None of the monitoring wells contained measurable thicknesses of LNAPL during this event. Based on the December 2017 groundwater elevations, the groundwater flow direction is to the south-southwest across the site toward the San Juan River. This flow direction is consistent with past monitoring events. The average of horizontal gradient calculations at the site was 0.006 ft/ft (**Figure 2**).

Seven monitoring wells and the four injection wells were sampled as part of the regular annual groundwater sampling event. All wells were sampled utilizing a peristaltic pump and flow-through cell. Groundwater field parameters pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured using a flow through cell and YSI 556 MPS during groundwater sampling. Groundwater samples were sent to ALS in Fort Collins, Colorado under chain-of-custody (COC) protocol and analyzed for volatile organic compounds (VOCs) using EPA Method 8260C. In addition, the groundwater samples collected from MW-17 and the four injection wells (INJ-North, INJ-South, INJ-East, and INJ-West) were analyzed for dissolved sulfate using EPA Method 300.0. Laboratory deliverables are provided in **Attachment A**. Results of the groundwater sampling are summarized in **Table 2**. The results show that constituents of concern BTEX and 1,2 dichloroethane (1,2-DCA) concentrations are confined within the slurry wall impoundment area (**Figure 3**). Dissolved sulfate was detected in MW-17 and the four injection wells. No VOC concentrations were detected in down-gradient wells (MW-10, MW-19, and MW-20) outside the slurry wall, cross gradient wells (MW-9, MW-16, and MW-21) **(Table 2)**. Due to lack of water, up-gradient wells (north of MW-17), MW-18 and MW-22 were unable to be sampled in 2017.

Summary and Conclusions

The annual groundwater sampling was completed during the week of December 26th, 2017. Fluid levels were measured in 22 wells to establish groundwater flow conditions. Across the site groundwater flow is to the south-southwest, toward the San Juan River. Groundwater results were below New Mexico Groundwater Standards for all 8260 VOCs with the exception of injection well INJ-North located within the slurry wall impoundment area. Groundwater sampled from INJ-North exceeded the New Mexico Groundwater Standards of 10 µg/L for Benzene with a detection of 58 µg/L. This detection is consistent with the 48 µg/L Benzene detection from the previous 2016 sampling.

The groundwater sampling data suggest that the In Situ Chemical Oxidation (ISCO) injections were successful in decreasing the concentrations of VOCs within the slurry wall. Overall, the slurry wall impoundment is functioning as designed and no off-site migration of constituents of concern is occurring. During 2017 Maverik conducted an additional round of ISCO injections to treat the VOC's that persist within the slurry wall.

Sincerely,

TRC
Results you can rely on



Jason Jayroe
Project Manager

Tables

Table 1 – Groundwater Elevation Table
Table 2 – Analytical Results Table

Figures

Figure 1 – Site Location Map
Figure 2 – Potentiometric Surface Map, December 2017
Figure 3 – Onsite and Offsite BTEX Concentration Map, December 2017

Attachments

Attachment A – Laboratory Data

Table 1
Monitoring Well Construction Summary and December 2017 Fluid Levels, Maverik Country Stores, Inc. (Former Caribou Refinery)

Well ID	Completion Date	Total Depth (ft. BGS)	Well Diameter (in.)	Top of Steel Casing Elevation (ft. AMSL)	Top of PVC Casing Elevation (ft. AMSL)	Ground Surface Elevation (ft. AMSL)	Top of Screen (ft. BGS)	Bottom of Screen (ft. BGS)	Screen Length (ft.)	Top of Screen Elevation (ft. AMSL)	Bottom of Screen Elevation (ft. AMSL)	Depth to Groundwater (ft.) December 2017	Product Thickness (ft.)	Groundwater Elevation (ft. AMSL)	Comments
MW-1	1987	21.5	2	5207.79	5207.24	5205.75	11.5	21.5	10	5194.25	5184.25	NA	NA	NA	Well damaged
MW-2	1987	15	2	5197.10	5196.93	5195.25	5	15	10	5190.25	5180.25	12.67	NA	5184.26	
MW-3	1987	14.5	2	5183.00	5181.46	5181.06	4.5	14.5	10	5176.56	5166.56	4.73	NA	5176.73	Well damaged
MW-4	1987	15	2	5178.41	5177.1	5176.14	5	15	10	5171.14	5161.14	NM	NA	NM	Converted to irrigation well
MW-5	1987	15	2	5175.62	5175.09	5173.67	5	15	10	5168.67	5158.67	8.21	NA	5166.88	
MW-6	1987	15.5	2	5176.40	5176.01	5174.23	5.5	15.5	10	5168.73	5158.73	NM	NA	NM	Well not located
MW-7	1987	15	2	5183.71	5182.84	5181.73	5	15	10	5176.73	5166.73	8.46	NA	5174.38	
MW-8	1987	15	2	5186.00	5185.87	5184.02	5	15	10	5179.02	5169.02	NM	NA	NM	
MW-9	1987	15	2	5191.39	5191.22	5189.33	5	15	10	5184.33	5174.33	8.92	NA	5182.30	
MW-10	1987	12.5	2	5189.80	5189.30	5187.47	2.5	12.5	10	5184.97	5174.97	6.31	NA	5182.99	
MW-11	1987	33	2	5197.26	5197.15	5194.97	23	33	10	5171.97	5161.97	NM	NA	NM	Abandoned 1990
MW-12	1987	12	2	5196.66	5196.19	5194.80	2	12	10	5192.80	5182.80	NM	NA	NM	Abandoned 1990
MW-13	1987	5	2	5187.76	NA	5187.56	0	5	5	5187.56	5182.56	NM	NA	NM	Destroyed
MW-14	1989	6	2	NA	5194.47	5190.70	1	6	5	5189.70	5184.70	NM	NA	NM	
MW-15	1989	6	2	NA	5188.80	5185.40	1	6	5	5184.40	5179.40	Dry	NA	NA	
MW-16	1990	13	2	NA	5194.98	5193.74	3	13	10	5190.74	5180.74	11.29	NA	5183.69	
MW-17	1993	15	2	5196.49	5195.91	5193.43	5	15	10	5188.43	5178.43	13.04	NA	5182.87	
MW-18	1993	15	2	5202.27	5201.75	5199.14	5	15	10	5194.14	5184.14	Dry	NA	NA	
MW-19	1990	12.5	2	NA	5189.54	5188.28	2.5	12.5	10	5185.78	5175.78	7.86	NA	5181.68	
MW-20	1990	12	2	NA	5191.05	5190.10	2	12	10	5188.10	5178.10	9.44	NA	5181.61	
MW-21	1990	13	2	NA	5194.81	5193.62	3	13	10	5190.62	5180.62	11.04	NA	5183.77	
MW-22	1990	13	2	NA	5195.86	5194.58	3	13	10	5191.58	5181.58	Dry	NA	NA	
P-1	1993	8	2	NA	5197.66	5195.74	3	8	5	5192.74	5187.74	Dry	NA	NA	
P-2	1993	8	2	NA	5192.32	5190.50	3	8	5	5187.50	5182.50	9.34	NA	5182.98	
P-3	1993	8	2	NA	5193.21	5191.44	3	8	5	5188.44	5183.44	Dry	NA	NA	
P-4	1993	8	2	NA	5198.82	5197.06	3	8	5	5194.06	5189.06	Dry	NA	NA	
INJ-N	2012	15	2	NA	NA	NA	5	15	10	NA	NA	12.56	NA	NA	
INJ-E	2012	15	2	NA	NA	NA	5	15	10	NA	NA	12.86	NA	NA	
INJ-S	2012	15	2	NA	NA	NA	5	15	10	NA	NA	12.94	NA	NA	
INJ-W	2012	15	2	NA	NA	NA	5	15	10	NA	NA	12.26	NA	NA	

Notes:

AMSL = Above mean sea level
BGS = Below ground surface
NM = Not Measured
NA = Not Applicable
ft =feet
in = inches

Table 2 Groundwater Results, Annually Sampled Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Sample Name	Groundwater Standard*	Injection North	Injection North	Injection North	Injection North	Injection West	Injection West	Injection West	Injection West	Injection South	Injection South	Injection South	Injection South	Injection East	Injection East	Injection East	Injection East
Date		12/7/2014	12/11/2015	12/27/2016	12/28/2017	12/7/2014	12/11/2015	12/27/2016	12/28/2017	12/7/2014	12/11/2015	12/27/2016	12/27/2017	12/7/2014	12/11/2015	12/27/2016	12/27/2017
Analyte		ug/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L
Benzene	10	1	**370**	**48**	**58**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	NS	<1	**229**	**19**	**2.3**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl-Benzene	750	<1	**402**	**10**	**2.6**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylenes	100	<1	**2,270**	**1,070**	**56**	<1	<1	<1	<1	<1	<1	0.33	<1	<1	<1	<1	<1
1,2-DCA	10	**18**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dis. Sulfate	6000000	1275000	**5,815,000**	**3,100,000**	**2,800,000**	675000	**5,423,000**	**4,400,000**	**2,700,000**	295000	**2,305,000**	**1,900,000**	**1,800,000**	295000	**3,002,000**	**1,600,000**	**1,800,000**

Sample Name	Groundwater Standard*	MW-17	MW-17	MW-17	MW-17	MW-117 (MW-17 Dup)	MW-117 (MW-17 Dup)	MW-117 (MW-17 Dup)	MW-117 (MW-17 Dup)	MW-22	MW-22	MW-18	MW-18	MW-18
Date		12/7/2014	12/11/2015	12/27/2016	12/28/2017	12/7/2014	12/11/2015	12/27/2016	12/26/2017	12/7/2014	12/27/2016	12/7/2014	12/10/2015	12/27/2016
Analyte		ug/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	ug/L	µg/L	ug/L	µg/L	µg/L
Benzene	10	<1	**290**	**0.74**	**2.7**	<1	**276**	**1.1**	**2.8**	**4**	**2.5**	**<1**	<1	<1
Toluene	NS	<1	**11**	**<1**	<1	<1	**10**	<1	<1	<1	<1	<1	<1	<1
Ethyl-Benzene	750	<1	**151**	**1.9**	**0.35**	<1	**143**	**3.4**	**0.39**	<1	**0.67**	**<1**	<1	<1
Total Xylenes	100	<1	**227**	**5.74**	**1.4**	<1	**222**	**13.2**	**1.5**	<1	**7.12**	**<1**	<1	<1
1,2-DCA	10	<1	<1	0.44	<1	<1	<1	0.39	<1	<1	**1.7**	**<1**	<1	<1
Dis. Sulfate	6000000	355000	**2,914,000**	**4,400,000**	**3,300,000**	360000	**3,512,000**	**3,800,000**	**3,300,000**	NS	NS	NS	NS	NS

Sample Name	Groundwater Standard*	MW-10	MW-10	MW-10	MW-10	MW-19	MW-19	MW-19	MW-19	MW-20	MW-20	MW-20	MW-20	MW-21	MW-21	MW-21	MW-21
Date		12/7/2014	12/10/2015	12/27/2016	12/27/2017	12/7/2014	12/10/2015	12/27/2016	12/27/2017	12/7/2014	12/10/2015	12/27/2016	12/27/2017	12/7/2014	12/10/2015	12/27/2016	12/27/2017
Analyte		ug/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L
Benzene	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	NS	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl-Benzene	750	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylenes	100	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dis. Sulfate	6000000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Sample Name	Groundwater Standard*	MW-9	MW-9	MW-9	MW-9	MW-16	MW-16	MW-16	MW-16
Date		12/7/2014	12/10/2015	12/28/2016	12/27/2017	12/7/2014	12/10/2015	12/28/2016	12/27/2017
Analyte		ug/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L	µg/L
Benzene	10	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	NS	<1	<1	<1	<1	<1	<1	<1	<1
Ethyl-Benzene	750	<1	<1	<1	<1	<1	<1	<1	<1
Total Xylenes	100	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	10	<1	<1	<1	<1	<1	<1	<1	<1
Dis. Sulfate	6000000	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103

NS - Not sampled

J - Estimated result. Result is less than RL

U - Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

Bold - Detected result

Highlighted - Result Exceeds New Mexico Groundwater Standard

LEGEND

- MW-2 — MONITORING WELL
- P1 — PIEZOMETER
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

Co. Road 6261

Co. Road 6257

O. Curley

I. Hull

Co. Road D 6255

E. Mclemore

E. Gray

J.L. Flack

R. Neff

Co. Road D 6259

Co. Road D 6263

MW-15

G. Nelson

MW-3

(Out of Service)

MW-7

DITCH IS FILLED IN AT THIS LOCATION

R. Jackson

A. Jackson

Ryan

MW-4

Co. Road D 6271

MW-8

M. Stone

WM. H. Walker

MW-5

CO. Road 6100

U.S. Highway 64

Road

MW-1

MW-2

MW-21

MW-20

P4

P3

MW-22

MW-10

MW-18

MW-17

P1

P2

MW-19

MW-16

MW-14

MW-9

WESTSIDE IRRIGATION DITCH

MURRAY PROPERTY DITCH

DITCH IS FILLED IN AT THIS LOCATION

FARMER'S MUTUAL IRRIGATION DITCH

100 0 200

SCALE IN FEET

TRC

2017 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRTLAND, NEW MEXICO

DATE: 01-18-18 | DRWN: ERH

SITE LOCATION MAP
DECEMBER 2017

FIGURE 1

LEGEND

- MW-2 — MONITORING WELL
- P1 — PIEZOMETER
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- GROUNDWATER ELEVATION CONTOURS
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

Co. Road 6257

Co. Road 6261

Co. Road D 6259

Co. Road D 6263

Co. Road D 6271

CO. Road 6100

U.S. Highway 64

Road

E. Mclemore

E. Gray

R. Neff

J.L. Flack

O. Curley

I. Hull

G. Nelson

R. Jackson

Ryan

A. Jackson

WM. H. Walker

M. Stone

MW-1 NA

MW-2 5184.26

MW-3 5176.73

MW-4 NM

MW-5 5166.88

MW-7 5175.95

MW-8 NM

MW-9 5182.30

MW-10 5189.99

MW-13 NA

MW-14 NM

MW-15 NA

MW-16 5183.69

MW-17

MW-19 5181.68

MW-20 5181.61

MW-21 5183.77

MW-22

P1

P2

P3

P4

(Out of Service)

DITCH IS FILLED IN AT THIS LOCATION

DITCH IS FILLED IN AT THIS LOCATION

WESTSIDE IRRIGATION DITCH

FARMER'S MUTUAL IRRIGATION DITCH

MURRAY PROPERTY DITCH

5185

5183

5181

5179

5177

5175

5173

5171

5169

5167

100 0 200

SCALE IN FEET

TRC

2017 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRTLAND, NEW MEXICO

DATE: 01-18-18 | DRWN: ERH

POTENTIOMETRIC SURFACE MAP
DECEMBER 2017

FIGURE 2

LEGEND

- MW-2 — MONITORING WELL
- P1 — PIEZOMETER
- INJ-W — INJECTION WELLS
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

ALL RESULTS ARE IN MICROGRAMS PER LITER (µg/L)
J - ESTIMATED CONCENTRATION

Co. Road 6257
O. Curley
I. Hull
E. Mclemore
E. Gray
J.L. Flack
R. Neff
Co. Road 6261
Co. Road D 6259
Co. Road D 6263
G. Nelson
U.S. Highway 64
Road
MW-1 NA
MW-2 5184.26
MW-3 5176.73
MW-4 NM
MW-5 5166.88
MW-7 5175.95
MW-8 NM
MW-10 5189.99
MW-14 NM
MW-15 NA
MW-16 5183.69
MW-18 NA
MW-19 5181.68
MW-20 5181.61
MW-21 5183.77
MW-22
MW-9 5182.30
P1
P2
P3
P4
INJ-W
INJ-N
INJ-E
INJ-S
MW-17
SW1
SW2
SW13
(Out of Service)
DITCH IS FILLED IN AT THIS LOCATION
DITCH IS FILLED IN AT THIS LOCATION
WESTSIDE IRRIGATION DITCH
FARMER'S MUTUAL IRRIGATION DITCH
MURRAY PROPERTY DITCH
R. Jackson
A. Jackson
Ryan
WM. H. Walker
M. Stone
CO. Road 6100
Co. Road D 6271

MW-21 (On-Site)	12/27/17
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-17 (Within Slurry Wall)	12/28/17
Benzene	2.7
Toluene	<1
Ethyl-Benzene	0.35
Total Xylenes	1.4
1, 2 DCA	<1

MW-20 (On-Site)	12/27/17
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

INJ-W (Within Slurry Wall)	12/28/17
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-10 (On-Site)	12/27/17
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

INJ-N (Within Slurry Wall)	12/28/17
Benzene	**58**
Toluene	2.3
Ethyl-Benzene	2.61
Total Xylenes	56
1, 2 DCA	<1

MW-19 (On-Site)	12/27/17
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-16 (Off-Site)	12/27/17
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

INJ-E (Within Slurry Wall)	12/28/17
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

MW-9 (Off Site)	12/27/17
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

INJ-S (Within Slurry Wall)	12/28/17
Benzene	<1
Toluene	<1
Ethyl-Benzene	<1
Total Xylenes	<1
1, 2 DCA	<1

100 0 200
SCALE IN FEET

TRC

2017 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRTLAND, NEW MEXICO

DATE: 01-18-18 | DRWN: ERH

BTEX CONCENTRATION MAP
DECEMBER 2017

FIGURE 3

Thursday, January 11, 2018

Jason Jayroe
TRC
131 East Lincoln Ave.
Fort Collins, CO 80524

Re: ALS Workorder: 1712524
Project Name: Maverik Kirtland
Project Number:

Dear Mr. Jayroe:

Twelve water samples were received from TRC, on 12/29/2017. The samples were scheduled for the following analyses:

GC/MS Volatiles
Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Marcela M. Hobgood
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
AIHA	214884
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Louisiana (LA)	05057
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

1712524

GC/MS Volatiles:
The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All surrogate recoveries were within acceptance criteria with the following exceptions:

Surrogate	Sample	Direction
Dibromofluorobenzene	-1, -2, -4, -5 and -6	Low

The low surrogate recoveries are due to the basic PH of the samples. No further action was taken.

All remaining acceptance criteria were met.

Inorganics:
The samples were analyzed following EMSL procedures for the current revision of the following SOP and method:

Analyte	Method	SOP #
Sulfate	300.0 Revision 2.1	1113

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 1712524
Client Name: TRC
Client Project Name: Maverik Kirtland
Client Project Number:
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Inj-West	1712524-1		WATER	28-Dec-17	8:00
MW-17	1712524-2		WATER	28-Dec-17	8:30
MW-117	1712524-3		WATER	26-Dec-17	16:00
Inj-North	1712524-4		WATER	28-Dec-17	9:10
Inj-South	1712524-5		WATER	27-Dec-17	7:30
Inj-East	1712524-6		WATER	27-Dec-17	8:00
MW-21	1712524-7		WATER	27-Dec-17	9:00
MW-20	1712524-8		WATER	27-Dec-17	9:20
MW-10	1712524-9		WATER	27-Dec-17	13:30
MW-19	1712524-10		WATER	27-Dec-17	14:30
MW-16	1712524-11		WATER	27-Dec-17	15:35
MW-9	1712524-12		WATER	27-Dec-17	16:15

ALS Environmental

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TF (800) 443-1511 PH (970) 490-1511 FX (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1712524

PROJECT NAME	Maverik Kirtland	SAMPLER	Jjayroe	DATE	12/29/2017	PAGE	1 of 2
PROJECT No.		SITE ID		TURNAROUND	Normal	DISPOSAL	By Lab or Return to Client
		EDD FORMAT					
COMPANY NAME	TRC	PURCHASE ORDER					
SEND REPORT TO	Jason Jayroe	BILL TO COMPANY					
ADDRESS	131 East Lincoln Ave Suite 200	INVOICE ATTN TO	Jason Jayroe				
CITY / STATE / ZIP	Fort Collins, CO 80524	ADDRESS					
PHONE	9704843263	CITY / STATE / ZIP					
FAX	9704843250	PHONE					
E-MAIL	jjayroe@trcsolutions.com	FAX					
		E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX, 1,2 DCA	Sulfate																							
1	Inj-West	GW	12/28/2017	*0800	4	HCL		X	X																							
2	MW-17	GW	12/28/2017	*0830	4	HCL		X	X																							
3	MW-117	GW	12/26/2017	*1600	4	HCL		X	X																							
4	Inj-North	GW	12/28/2017	*0910	4	HCL		X	X																							
5	Inj-South	GW	12/27/2017	*0730	4	HCL		X	X																							
6	Inj-East	GW	12/27/2017	*0800	4	HCL		X	X																							
7	MW-21	GW	12/27/2017	*0900	3	HCL		X																								
8	MW-20	GW	12/27/2017	*0920	3	HCL		X																								
9	MW-10	GW	12/27/2017	*1330	3	HCL		X																								
10	MW-19	GW	12/27/2017	*1430	3	HCL		X																								

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Jason Jayroe	12/29/17	1600
RECEIVED BY		SHAY AVERY	12-29-17	~~1240~~ 1420
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

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Chain-of-Custody

Form 202r8

WORKORDER # 1712524

PAGE 2 of 2

PROJECT NAME	Maverik Kirtland	SAMPLER	Jjayroe	DATE	12/29/2017	DISPOSAL	By Lab or Return to Client
PROJECT No.		SITE ID		TURNAROUND	Normal		
		EDD FORMAT					
COMPANY NAME	TRC	PURCHASE ORDER					
SEND REPORT TO	Jason Jayroe	BILL TO COMPANY					
ADDRESS	131 East Lincoln Ave Suite 200	INVOICE ATTN TO	Jason Jayroe				
CITY / STATE / ZIP	Fort Collins, CO 80524	ADDRESS					
PHONE	9704843263	CITY / STATE / ZIP					
FAX	9704843250	PHONE					
E-MAIL	jjayroe@trcsolutions.com	FAX					
		E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX, 1,2 DCA	Sulfate
11	MW-16	GW	12/27/2017	*1535	3	HCL		X	
12	MW-9	GW	12/27/2017	*1615	3	HCL		X	

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:	QC PACKAGE (check below)
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Jason Jayroe	12/29/17	1600
RECEIVED BY		SHAY AVERY	12-29-17	1240
RELINQUISHED BY				1420
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: TRC Workorder No: 1712524

Project Manager: JK Initials: _____ Date: _____

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	(NONE)	YES	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		YES	(NO)
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	(YES)	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	(YES)	NO
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)	YES	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	(YES)	NO
15. Do any water samples contain sediment? Amount Amount of sediment: _x_ dusting ____ moderate ____ heavy	N/A	(YES)	NO
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 #4	RAD ONLY	YES	(NO)

Cooler #:	1							
Temperature (°C):	7.1							
No. of custody seals on cooler:	0							
DOT Survey/ Acceptance Information: External µR/hr reading:	N/A							
Background µR/hr reading:	10							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? **YES / NO / NA** (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

- SULFATE BOTTLES HAVE A PH BETWEEN 12 AND 13, BUT DO NOT LIST A PRESERVATIVE TYPE.
- ALL SAMPLES HAVE A DUSTING OF SEDIMENT

If applicable, was the client contacted? YES / (NO) / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: 12-29-17

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

Form 201r24.xls (06/04/2012)

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: Inj-West **Lab ID:** 1712524-1
Legal Location: **Matrix:** WATER
Collection Date: 12/28/2017 08:00 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 14:15
BENZENE	ND		1	UG/L	1	1/2/2018 14:15
ETHYLBENZENE	ND		1	UG/L	1	1/2/2018 14:15
M+P-XYLENE	ND		1	UG/L	1	1/2/2018 14:15
O-XYLENE	ND		1	UG/L	1	1/2/2018 14:15
TOLUENE	ND		1	UG/L	1	1/2/2018 14:15
Surr: 4-BROMOFLUOROBENZENE	*100*		*85-115*	*%REC*	1	1/2/2018 14:15
Surr: DIBROMOFLUOROMETHANE	*39*	*	*84-118*	*%REC*	1	1/2/2018 14:15
Surr: TOLUENE-D8	*106*		*85-115*	*%REC*	1	1/2/2018 14:15
Ion Chromatography			**EPA300.0**	Prep Date: **1/8/2018**		PrepBy: **AMW**
SULFATE	**2700**		**120**	**MG/L**	125	1/8/2018 19:52

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: MW-17 **Lab ID:** 1712524-2
Legal Location: **Matrix:** WATER
Collection Date: 12/28/2017 08:30 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 14:36
BENZENE	**2.7**		**1**	**UG/L**	1	1/2/2018 14:36
ETHYLBENZENE	**0.35**	J	**1**	**UG/L**	1	1/2/2018 14:36
M+P-XYLENE	**1.4**		**1**	**UG/L**	1	1/2/2018 14:36
O-XYLENE	ND		1	UG/L	1	1/2/2018 14:36
TOLUENE	ND		1	UG/L	1	1/2/2018 14:36
Surr: 4-BROMOFLUOROBENZENE	*103*		*85-115*	*%REC*	1	1/2/2018 14:36
Surr: DIBROMOFLUOROMETHANE	*81*	*	*84-118*	*%REC*	1	1/2/2018 14:36
Surr: TOLUENE-D8	*100*		*85-115*	*%REC*	1	1/2/2018 14:36
Ion Chromatography			**EPA300.0**	Prep Date: **1/8/2018**		PrepBy: **AMW**
SULFATE	**3300**		**100**	**MG/L**	100	1/8/2018 20:07

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: MW-117 **Lab ID:** 1712524-3
Legal Location: **Matrix:** WATER
Collection Date: 12/26/2017 16:00 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 14:57
BENZENE	**2.8**		**1**	**UG/L**	1	1/2/2018 14:57
ETHYLBENZENE	**0.39**	J	**1**	**UG/L**	1	1/2/2018 14:57
M+P-XYLENE	**1.5**		**1**	**UG/L**	1	1/2/2018 14:57
O-XYLENE	ND		1	UG/L	1	1/2/2018 14:57
TOLUENE	ND		1	UG/L	1	1/2/2018 14:57
Surr: 4-BROMOFLUOROBENZENE	*97*		*85-115*	*%REC*	1	1/2/2018 14:57
Surr: DIBROMOFLUOROMETHANE	*86*		*84-118*	*%REC*	1	1/2/2018 14:57
Surr: TOLUENE-D8	*101*		*85-115*	*%REC*	1	1/2/2018 14:57
Ion Chromatography			**EPA300.0**	Prep Date: **1/8/2018**		PrepBy: **AMW**
SULFATE	**3300**		**100**	**MG/L**	100	1/8/2018 20:22

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: Inj-North **Lab ID:** 1712524-4
Legal Location: **Matrix:** WATER
Collection Date: 12/28/2017 09:10 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 18:32
BENZENE	**58**		**1**	**UG/L**	1	1/2/2018 18:32
ETHYLBENZENE	**2.6**		**1**	**UG/L**	1	1/2/2018 18:32
M+P-XYLENE	**40**		**1**	**UG/L**	1	1/2/2018 18:32
O-XYLENE	**16**		**1**	**UG/L**	1	1/2/2018 18:32
TOLUENE	**2.3**		**1**	**UG/L**	1	1/2/2018 18:32
Surr: 4-BROMOFLUOROBENZENE	*102*		*85-115*	*%REC*	1	1/2/2018 18:32
Surr: DIBROMOFLUOROMETHANE	*29*	*	*84-118*	*%REC*	1	1/2/2018 18:32
Surr: TOLUENE-D8	*102*		*85-115*	*%REC*	1	1/2/2018 18:32
Ion Chromatography			**EPA300.0**	Prep Date: **1/8/2018**		PrepBy: **AMW**
SULFATE	**2800**		**120**	**MG/L**	125	1/8/2018 21:07

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: Inj-South **Lab ID:** 1712524-5
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2017 07:30 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 15:18
BENZENE	ND		1	UG/L	1	1/2/2018 15:18
ETHYLBENZENE	ND		1	UG/L	1	1/2/2018 15:18
M+P-XYLENE	ND		1	UG/L	1	1/2/2018 15:18
O-XYLENE	ND		1	UG/L	1	1/2/2018 15:18
TOLUENE	ND		1	UG/L	1	1/2/2018 15:18
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	1/2/2018 15:18
Surr: DIBROMOFLUOROMETHANE	*36*	*	*84-118*	*%REC*	1	1/2/2018 15:18
Surr: TOLUENE-D8	*98*		*85-115*	*%REC*	1	1/2/2018 15:18
Ion Chromatography			**EPA300.0**	Prep Date: **1/8/2018**		PrepBy: **AMW**
SULFATE	**1800**		**120**	**MG/L**	125	1/8/2018 21:22

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: Inj-East **Lab ID:** 1712524-6
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2017 08:00 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 15:39
BENZENE	ND		1	UG/L	1	1/2/2018 15:39
ETHYLBENZENE	ND		1	UG/L	1	1/2/2018 15:39
M+P-XYLENE	ND		1	UG/L	1	1/2/2018 15:39
O-XYLENE	ND		1	UG/L	1	1/2/2018 15:39
TOLUENE	ND		1	UG/L	1	1/2/2018 15:39
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	1/2/2018 15:39
Surr: DIBROMOFLUOROMETHANE	*35*	*	*84-118*	*%REC*	1	1/2/2018 15:39
Surr: TOLUENE-D8	*98*		*85-115*	*%REC*	1	1/2/2018 15:39
Ion Chromatography			**EPA300.0**	Prep Date: **1/8/2018**		PrepBy: **AMW**
SULFATE	**1800**		**120**	**MG/L**	125	1/8/2018 21:37

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: MW-21 **Lab ID:** 1712524-7
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2017 09:00 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 16:00
BENZENE	ND		1	UG/L	1	1/2/2018 16:00
ETHYLBENZENE	ND		1	UG/L	1	1/2/2018 16:00
M+P-XYLENE	ND		1	UG/L	1	1/2/2018 16:00
O-XYLENE	ND		1	UG/L	1	1/2/2018 16:00
TOLUENE	ND		1	UG/L	1	1/2/2018 16:00
Surr: 4-BROMOFLUOROBENZENE	*98*		*85-115*	*%REC*	1	1/2/2018 16:00
Surr: DIBROMOFLUOROMETHANE	*95*		*84-118*	*%REC*	1	1/2/2018 16:00
Surr: TOLUENE-D8	*97*		*85-115*	*%REC*	1	1/2/2018 16:00

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: MW-20 **Lab ID:** 1712524-8
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2017 09:20 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 16:21
BENZENE	ND		1	UG/L	1	1/2/2018 16:21
ETHYLBENZENE	ND		1	UG/L	1	1/2/2018 16:21
M+P-XYLENE	ND		1	UG/L	1	1/2/2018 16:21
O-XYLENE	ND		1	UG/L	1	1/2/2018 16:21
TOLUENE	ND		1	UG/L	1	1/2/2018 16:21
Surr: 4-BROMOFLUOROBENZENE	*96*		*85-115*	*%REC*	1	1/2/2018 16:21
Surr: DIBROMOFLUOROMETHANE	*96*		*84-118*	*%REC*	1	1/2/2018 16:21
Surr: TOLUENE-D8	*99*		*85-115*	*%REC*	1	1/2/2018 16:21

Client:	TRC	**Date:**	*11-Jan-18*
Project:	Maverik Kirtland	**Work Order:**	1712524
Sample ID:	MW-10	**Lab ID:**	1712524-9
Legal Location:		**Matrix:**	WATER
Collection Date:	12/27/2017 13:30	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 16:42
BENZENE	ND		1	UG/L	1	1/2/2018 16:42
ETHYLBENZENE	ND		1	UG/L	1	1/2/2018 16:42
M+P-XYLENE	ND		1	UG/L	1	1/2/2018 16:42
O-XYLENE	ND		1	UG/L	1	1/2/2018 16:42
TOLUENE	ND		1	UG/L	1	1/2/2018 16:42
Surr: 4-BROMOFLUOROBENZENE	*96*		*85-115*	*%REC*	1	1/2/2018 16:42
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	1/2/2018 16:42
Surr: TOLUENE-D8	*103*		*85-115*	*%REC*	1	1/2/2018 16:42

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: MW-19 **Lab ID:** 1712524-10
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2017 14:30 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 17:03
BENZENE	ND		1	UG/L	1	1/2/2018 17:03
ETHYLBENZENE	ND		1	UG/L	1	1/2/2018 17:03
M+P-XYLENE	ND		1	UG/L	1	1/2/2018 17:03
O-XYLENE	ND		1	UG/L	1	1/2/2018 17:03
TOLUENE	ND		1	UG/L	1	1/2/2018 17:03
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	1/2/2018 17:03
Surr: DIBROMOFLUOROMETHANE	*98*		*84-118*	*%REC*	1	1/2/2018 17:03
Surr: TOLUENE-D8	*100*		*85-115*	*%REC*	1	1/2/2018 17:03

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: MW-16 **Lab ID:** 1712524-11
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2017 15:35 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 17:24
BENZENE	ND		1	UG/L	1	1/2/2018 17:24
ETHYLBENZENE	ND		1	UG/L	1	1/2/2018 17:24
M+P-XYLENE	ND		1	UG/L	1	1/2/2018 17:24
O-XYLENE	ND		1	UG/L	1	1/2/2018 17:24
TOLUENE	ND		1	UG/L	1	1/2/2018 17:24
Surr: 4-BROMOFLUOROBENZENE	*101*		*85-115*	*%REC*	1	1/2/2018 17:24
Surr: DIBROMOFLUOROMETHANE	*98*		*84-118*	*%REC*	1	1/2/2018 17:24
Surr: TOLUENE-D8	*104*		*85-115*	*%REC*	1	1/2/2018 17:24

Client: TRC **Date:** *11-Jan-18*
Project: Maverik Kirtland **Work Order:** 1712524
Sample ID: MW-9 **Lab ID:** 1712524-12
Legal Location: **Matrix:** WATER
Collection Date: 12/27/2017 16:15 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **1/2/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	1/2/2018 17:45
BENZENE	ND		1	UG/L	1	1/2/2018 17:45
ETHYLBENZENE	ND		1	UG/L	1	1/2/2018 17:45
M+P-XYLENE	ND		1	UG/L	1	1/2/2018 17:45
O-XYLENE	ND		1	UG/L	1	1/2/2018 17:45
TOLUENE	ND		1	UG/L	1	1/2/2018 17:45
Surr: 4-BROMOFLUOROBENZENE	*100*		*85-115*	*%REC*	1	1/2/2018 17:45
Surr: DIBROMOFLUOROMETHANE	*96*		*84-118*	*%REC*	1	1/2/2018 17:45
Surr: TOLUENE-D8	*101*		*85-115*	*%REC*	1	1/2/2018 17:45

Client:	TRC	**Date:**	*11-Jan-18*
Project:	Maverik Kirtland	**Work Order:**	1712524
Sample ID:	MW-9	**Lab ID:**	1712524-12
Legal Location:		**Matrix:**	WATER
Collection Date:	12/27/2017 16:15	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

- Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Batch ID: **VL180102-3-1** Instrument ID: **HPV3** Method: **SW8260_25**

LCS Sample ID: **VL180102-3** Units: **%REC** Analysis Date: **1/2/2018 12:45**

Client ID: Run ID: **VL180102-3** Prep Date: **1/2/2018** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	23.8		25		95	85-115					
Surr: DIBROMOFLUOROMETHANE	23.9		25		96	84-118					
Surr: TOLUENE-D8	22.7		25		91	85-115					
1,2-DICHLOROETHANE	8.44	1	10		84	74-128				20	
BENZENE	9.57	1	10		96	83-117				20	
ETHYLBENZENE	9.8	1	10		98	81-113				20	
M+P-XYLENE	19.5	1	20		97	82-115				20	
O-XYLENE	9.94	1	10		99	81-115				20	
TOLUENE	9.9	1	10		99	82-113				20	

LCSD Sample ID: **VL180102-3** Units: **%REC** Analysis Date: **1/2/2018 13:06**

Client ID: Run ID: **VL180102-3** Prep Date: **1/2/2018** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	23.9		25		96	85-115			0		
Surr: DIBROMOFLUOROMETHANE	24.7		25		99	84-118			3		
Surr: TOLUENE-D8	25.5		25		102	85-115			12		
1,2-DICHLOROETHANE	9.23	1	10		92	74-128		8.44	9	20	
BENZENE	10.1	1	10		101	83-117		9.57	5	20	
ETHYLBENZENE	10.4	1	10		104	81-113		9.8	6	20	
M+P-XYLENE	20.4	1	20		102	82-115		19.5	4	20	
O-XYLENE	10.1	1	10		101	81-115		9.94	1	20	
TOLUENE	10.3	1	10		103	82-113		9.9	4	20	

QC BATCH REPORT

Batch ID: **VL180102-3-1** Instrument ID: **HPV3** Method: **SW8260_25**

MB Sample ID: **VL180102-3** Units: **%REC** Analysis Date: **1/2/2018 13:51**

Client ID: Run ID: **VL180102-3** Prep Date: **1/2/2018** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.7		25		99	85-115					
Surr: DIBROMOFLUOROMETHANE	24.5		25		98	84-118					
Surr: TOLUENE-D8	23.6		25		95	85-115					
1,2-DICHLOROETHANE	ND	1									
BENZENE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
TOLUENE	ND	1									

The following samples were analyzed in this batch:

1712524-1	1712524-2	1712524-3
1712524-4	1712524-5	1712524-6
1712524-7	1712524-8	1712524-9
1712524-10	1712524-11	1712524-12

Client: TRC
Work Order: 1712524
Project: Maverik Kirtland

QC BATCH REPORT

Batch ID: **IC180108-2-1** Instrument ID: **IC3** Method: **EPA300.0**

LCS Sample ID: **IC180108-2** Units: **MG/L** Analysis Date: **1/8/2018 20:37**
Client ID: Run ID: **IC180108-1a1** Prep Date: **1/8/2018** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
SULFATE	50.6	1	50		101	90-110				15	

MB Sample ID: **IC180108-2** Units: **MG/L** Analysis Date: **1/8/2018 20:52**
Client ID: Run ID: **IC180108-1a1** Prep Date: **1/8/2018** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
SULFATE	ND	1									

The following samples were analyzed in this batch:

1712524-1	1712524-2	1712524-3
1712524-4	1712524-5	1712524-6

131 E. Lincoln Ave.
Suite 200
Fort Collins, CO 80524

970.484.3263 PHONE
970.484.3250 FAX

www.trcsolutions.com

March 29, 2019

Randolph Bayliss, P.E.
NMOCD Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Subject: **2018 Annual Groundwater Report, Maverik Country Stores (Former Caribou Refinery), Kirtland, New Mexico**

Dear Mr. Bayliss:

This report provides the results of the 2018 Site activities for the Maverik Country Stores site (former Caribou Refinery) in Kirtland, New Mexico (**Figure 1**). These activities were completed during the 2018 calendar year to meet the annual monitoring requirements for the site. The scope of work completed included:

- Annual fluid level measurements of 17 on-site wells;
- Annual low-flow groundwater sampling of 6 on-site wells;
- Annual analytical evaluation of VOCs and dissolved sulfate in groundwater samples from 5 on-site wells, along with analytical evaluation of VOCs only from 1 on-site well.

Field methods, results, and the conclusions from the 2018 field events are discussed below.

Discontinue Sampling and Well Abandonment

Since 1998, groundwater sampling results have indicated that impacts to groundwater at the site are limited to within the slurry wall impoundment area. Due to the robust dataset for the site demonstrating no impacts to groundwater downgradient of the slurry wall impoundment, the New Mexico Oil Conservation Division (OCD) approved Maverik's proposal to discontinue sampling off-site and on-site monitoring wells outside of the slurry wall impoundment area (MW-10, MW-18, MW-19, MW-20, and MW-21), as well as plugging and abandoning all eight off-site monitoring wells (MW-3, MW-5, MW-7, MW-8, MW-9, MW-14, MW-15, and MW-16). Wells were plugged and abandoned in

accordance with the State of New Mexico guidelines during the week of November 19th, 2018. The OCD approved of Maverik's proposal to continue gauging and groundwater sampling the six monitoring wells inside the slurry wall area (INJ-N, INJ-E, INJ-S, INJ-W, MW-17, and MW-22) and gauging the remaining on-site monitoring wells (MW-10, MW-18, MW-19, MW-20, and MW-21).

Annual Groundwater Sampling

Annual groundwater sampling activities were conducted on November 21, 2018. Prior to well sampling, site-wide fluid levels were measured using an oil/water interface probe (**Table 1**) for compilation of the site potentiometric surface map (**Figure 2**). Fluid levels were not obtainable from the following site well:

- MW-01: The well has a blockage approximately 2 feet below ground surface that prevented collection of a fluid level measurement;

None of the monitoring wells contained measurable thicknesses of LNAPL during this event. Based on the November 2018 groundwater elevations, the groundwater flow direction is to the south-southwest across the site toward the San Juan River. This flow direction is consistent with past monitoring events. The average of horizontal gradient calculations at the site was 0.006 ft/ft (**Figure 2**).

Two monitoring wells and the four injection wells were sampled as part of the regular annual groundwater sampling event. All wells were sampled utilizing a peristaltic pump and flow-through cell. Groundwater field parameters pH, temperature, conductivity, dissolved oxygen (DO), and oxidation reduction potential (ORP) were measured using a flow through cell and YSI 556 MPS during groundwater sampling. Groundwater samples were sent to ALS in Fort Collins, Colorado under chain-of-custody (COC) protocol and analyzed for volatile organic compounds (VOCs) using EPA Method 8260C. In addition, the groundwater samples collected from MW-17 and the four injection wells (INJ-North, INJ-South, INJ-East, and INJ-West) were analyzed for dissolved sulfate using EPA Method 300.0. Laboratory deliverables are provided in **Attachment A**. Results of the groundwater sampling are summarized in **Table 2**. The results show that there was one exceedance of constituent of concern 1,2-Dichloroethane (1,2-DCA) (**Figure 3**). 1,2-DCA exceeded the New Mexico Groundwater Standard of 10 µg/L at down-gradient well MW-22 with a concentration of 36 µg/L. Dissolved sulfate was detected in MW-17 and the four injection wells **(Table 2)**. Wells MW-3, MW-5, MW-7, MW-8, MW-9, MW-14, MW-15, and MW-16 were plugged and abandoned and thus were not sampled in 2018.

Summary and Conclusions

The annual groundwater sampling was completed during the week of November 19th, 2018. Fluid levels were measured in 17 wells to establish groundwater flow conditions. Across the site, groundwater flow is to the south-southwest, toward the San Juan River. Groundwater results were below New Mexico Groundwater Standards for all 8260 VOCs with the exception of well MW-22 inside of the slurry wall impoundment area. Groundwater sampled from MW-22 exceeded the New Mexico Groundwater Standards

of 10 µg/L for 1,2-DCA with a detection of 36 µg/L. This detection is consistent with previous sampling events.

The groundwater sampling data suggest that the In Situ Chemical Oxidation (ISCO) injections were successful in decreasing the concentrations of VOCs within the slurry wall. Overall, the slurry wall impoundment is functioning as designed and no off-site migration of constituents of concern is occurring. In 2018, Maverik conducted an additional round of ISCO injections to treat the VOCs that persist within the slurry wall.

Sincerely,

Jason Jayroe
Project Manager

Tables

Table 1 – Groundwater Elevation Table
Table 2 – Analytical Results Table

Figures

Figure 1 – Site Location Map
Figure 2 – Potentiometric Surface Map, November 2018
Figure 3 – BTEX Concentration Map, November 2018

Attachments

Attachment A – Laboratory Data

Table 2
Groundwater Results, Annually Sampled Monitoring Wells Maverik Country Stores, Inc. (Former Caribou Refinery)

Sample Name	Groundwater Standard*	Injection North	Injection West	Injection South	Injection East
Date		11/21/2018	11/21/2018	11/21/2018	11/21/2018
Analyte		µg/L	µg/L	µg/L	µg/L
Benzene	10	**0.36 J**	<1	<1	<1
Toluene	750	<1	<1	<1	<1
Ethylbenzene	750	<1	<1	<1	<1
Total Xylenes	620	<1	<1	<1	<1
1,2-DCA	10	<1	<1	<1	<1
Dis. Sulfate	6000000	**4,200,000**	**2,000,000**	**2,300,000**	**1,900,000**

Sample Name	Groundwater Standard*	MW-17	MW-117 (MW-17 Dup)	MW-22
Date		11/21/2018	11/21/2018	11/21/2018
Analyte		µg/L	µg/L	µg/L
Benzene	10	<1	<1	**1.3**
Toluene	750	<1	<1	<1
Ethylbenzene	750	<1	<1	<1
Total Xylenes	620	<1	<1	<1
1,2-DCA	10	<1	<1	**36**
Dis. Sulfate	6000000	**5,600,000**	NS	NS

Notes:

* Groundwater Standards based on the New Mexico Administrative Code Section 20.6.2.3103

NS - Not sampled

J - Estimated result. Result is less than RL

U - Undetected at the reporting limit or at the reported concentration; result is considered to be a false positive

Bold - Detected result

Highlighted - Result Exceeds New Mexico Groundwater Standard

Table 1
Monitoring Well Construction Summary and November 2018 Fluid Levels, Maverik Country Stores, Inc. (Former Caribou Refinery)

Well ID	Completion Date	Total Depth (ft. BGS)	Well Diameter (in.)	Top of Steel Casing Elevation (ft. AMSL)	Top of PVC Casing Elevation (ft. AMSL)	Ground Surface Elevation (ft. AMSL)	Top of Screen (ft. BGS)	Bottom of Screen (ft. BGS)	Screen Length (ft.)	Top of Screen Elevation (ft. AMSL)	Bottom of Screen Elevation (ft. AMSL)	Depth to Groundwater (ft.) November 2018	Product Thickness (ft.)	Groundwater Elevation (ft. AMSL)	Comments
MW-1	1987	21.5	2	5207.79	5207.24	5205.75	11.5	21.5	10	5194.25	5184.25	NA	NA	NA	Well damaged
MW-2	1987	15	2	5197.10	5196.93	5195.25	5	15	10	5190.25	5180.25	8.98	NA	5187.95	
MW-10	1987	12.5	2	5189.80	5189.30	5187.47	2.5	12.5	10	5184.97	5174.97	5.96	NA	5183.34	
MW-17	1993	15	2	5196.49	5195.91	5193.43	5	15	10	5188.43	5178.43	11.12	NA	5184.79	
MW-18	1993	15	2	5202.27	5201.75	5199.14	5	15	10	5194.14	5184.14	13.36	NA	5188.39	
MW-19	1990	12.5	2	NA	5189.54	5188.28	2.5	12.5	10	5185.78	5175.78	5.57	NA	5183.97	
MW-20	1990	12	2	NA	5191.05	5190.10	2	12	10	5188.10	5178.10	7.68	NA	5183.37	
MW-21	1990	13	2	NA	5194.81	5193.62	3	13	10	5190.62	5180.62	9.85	NA	5184.96	
MW-22	1990	13	2	NA	5195.86	5194.58	3	13	10	5191.58	5181.58	10.93	NA	5184.93	
P-1	1993	8	2	NA	5197.66	5195.74	3	8	5	5192.74	5187.74	10.61	NA	5187.05	
P-2	1993	8	2	NA	5192.32	5190.50	3	8	5	5187.50	5182.50	6.88	NA	5185.44	
P-3	1993	8	2	NA	5193.21	5191.44	3	8	5	5188.44	5183.44	7.42	NA	5185.79	
P-4	1993	8	2	NA	5198.82	5197.06	3	8	5	5194.06	5189.06	11.01	NA	5187.81	
INJ-N	2012	15	2	NA	NA	NA	5	15	10	NA	NA	10.36	NA	NA	
INJ-E	2012	15	2	NA	NA	NA	5	15	10	NA	NA	10.88	NA	NA	
INJ-S	2012	15	2	NA	NA	NA	5	15	10	NA	NA	10.13	NA	NA	
INJ-W	2012	15	2	NA	NA	NA	5	15	10	NA	NA	10.09	NA	NA	

Notes:

AMSL = Above mean sea level
BGS = Below ground surface
NM = Not Measured
NA = Not Applicable
ft =feet
in = inches

LEGEND

- MW-2 — MONITORING WELL
- MW-7 — PLUG AND ABANDONED WELL
- P1 — PIEZOMETER
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

Co. Road 6261

Co. Road 6257

O. Curley

I. Hull

Co. Road D 6255

E. Mclemore

E. Gray

J.L. Flack

R. Neff

Co. Road D 6259

Co. Road D 6263

MW-2

MW-1

Road

MW-21

MW-20

P4

P3

MW-22

MW-10

MW-18

P1

MW-17

P2

MW-19

U.S. Highway 64

WESTSIDE IRRIGATION DITCH

MW-16

MW-14

MW-9

MURRAY PROPERTY DITCH

DITCH IS FILLED IN AT THIS LOCATION

FARMER'S MUTUAL IRRIGATION DITCH

MW-15

(Out of Service)

MW-7

DITCH IS FILLED IN AT THIS LOCATION

MW-3

G. Nelson

R. Jackson

A. Jackson

Ryan

Co. Road D 6271

CO. Road 6100

MW-8

M. Stone

WM. H. Walker

MW-5

100 0 200

SCALE IN FEET

TRC

2018 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRTLAND, NEW MEXICO

DATE: 02-07-19 | DRWN: NCP

SITE LOCATION MAP
NOVEMBER 2018

FIGURE 1

LEGEND

- MW-2 — MONITORING WELL
- MW-7 — PLUG AND ABANDONED WELL
- P1 — PIEZOMETER
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- GROUNDWATER ELEVATION CONTOURS
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

Co. Road 6257

Co. Road 6261

Co. Road D 6259

Co. Road D 6263

Co. Road D 6271

CO. Road 6100

U.S. Highway 64

Road

E. Mclemore

E. Gray

J.L. Flack

R. Neff

O. Curley

I. Hull

G. Nelson

R. Jackson

Ryan

A. Jackson

M. Stone

WM. H. Walker

MW-1

MW-2
5187.95

MW-21
5184.96

MW-20
5183.37

MW-10
5183.54

MW-19
5183.97

MW-18
5188.39

MW-22

MW-17

P1

P2

P3

P4

MW-16

MW-14

MW-9

MW-15

MW-3

MW-7

MW-8

MW-5

(Out of Service)

DITCH IS FILLED IN AT THIS LOCATION

DITCH IS FILLED IN AT THIS LOCATION

WESTSIDE IRRIGATION DITCH

FARMER'S MUTUAL IRRIGATION DITCH

MURRAY PROPERTY DITCH

5187

5186

5185

5184

100 0 200

SCALE IN FEET

TRC

2018 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRTLAND, NEW MEXICO

DATE: 02-07-19 | DRWN: NCP

POTENTIOMETRIC SURFACE MAP
NOVEMBER 2018

FIGURE 2

LEGEND

- MW-2 — MONITORING WELL
- MW-7 — PLUG AND ABANDONED WELL
- P1 — PIEZOMETER
- INJ-W — INJECTION WELLS
- E. Gray — PRIVATE WELL
- SLURRY WALL
- MAVERIK CARIBOU FORMER REFINERY BOUNDARY
- WESTSIDE IRRIGATION DITCH FILLED IN LOCATION

ALL RESULTS ARE IN MICROGRAMS PER LITER (µg/L)
J - ESTIMATED CONCENTRATION

Co. Road 6257

Co. Road 6261

O. Curley

I. Hull

E. Mclemore

E. Gray

J.L. Flack

R. Neff

Co. Road D 6259

Co. Road D 6263

G. Nelson

U.S. Highway 64

Road

MW-22 (On-Site)	11/21/18
Benzene	1.3
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<1
1,2-DCA	**36**

INJ-W (Within Slurry Wall)	11/21/18
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<1
1,2-DCA	<1

MW-17 (Within Slurry Wall)	11/21/18
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<1
1,2-DCA	<1

INJ-N (Within Slurry Wall)	11/21/18
Benzene	0.36 J
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<1
1,2-DCA	<1

INJ-E (Within Slurry Wall)	11/21/18
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<1
1,2-DCA	<1

INJ-S (Within Slurry Wall)	11/21/18
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<1
1,2-DCA	<1

MW-1, MW-2, MW-3, MW-5, MW-7, MW-8, MW-9, MW-10, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, P1, P2, P3, P4, INJ-W, INJ-N, INJ-E, INJ-S, SW12, SW13

WESTSIDE IRRIGATION DITCH

FARMER'S MUTUAL IRRIGATION DITCH

MURRAY PROPERTY DITCH

DITCH IS FILLED IN AT THIS LOCATION

DITCH IS FILLED IN AT THIS LOCATION

(Out of Service)

R. Jackson

A. Jackson

Ryan

Co. Road D 6271

CO. Road 6100

M. Stone

WM. H. Walker

100 0 200

SCALE IN FEET

TRC

2018 ANNUAL GROUNDWATER REPORT
MAVERIK CARIBOU FORMER REFINERY
KIRTLAND, NEW MEXICO

DATE: 02-07-19 | DRWN: NCP

BTEX CONCENTRATION MAP
NOVEMBER 2018

FIGURE 3

Friday, December 07, 2018

Jason Jayroe
TRC
131 East Lincoln Ave.
Fort Collins, CO 80524

Re: ALS Workorder: 1811448
Project Name: Maverik Kirtland
Project Number:

Dear Mr. Jayroe:

Eight water samples were received from TRC, on 11/26/2018. The samples were scheduled for the following analyses:

GC/MS Volatiles
Inorganics

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Marcela M. Hobgood
Project Manager

ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
AIHA	214884
Alaska (AK)	UST-086
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

1811448

GC/MS Volatiles:
The samples were analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

All acceptance criteria were met.

Inorganics:
The samples were analyzed following EMSL procedures for the current revision of the following SOP and method:

Analyte	Method	SOP #
Sulfate	300.0 Revision 2.1	1113

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 1811448
Client Name: TRC
Client Project Name: Maverik Kirtland
Client Project Number:
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Inj-West	1811448-1		WATER	21-Nov-18	7:50
MW-17	1811448-2		WATER	21-Nov-18	8:30
MW-117	1811448-3		WATER	21-Nov-18	12:00
Inj-North	1811448-4		WATER	21-Nov-18	10:30
Inj-South	1811448-5		WATER	21-Nov-18	9:00
Inj-East	1811448-6		WATER	21-Nov-18	9:40
MW-20	1811448-7		WATER	21-Nov-18	13:00
Trip Blank	1811448-8		WATER	21-Nov-18	

ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1811448

PAGE 1 of

DISPOSAL By Lab or Return to Client

PROJECT NAME	Maverik Kirtland	SAMPLER	Jjayroe
PROJECT No.		SITE ID	
		EDD FORMAT	
COMPANY NAME	TRC	PURCHASE ORDER	
SEND REPORT TO	Jason Jayroe	BILL TO COMPANY	
ADDRESS	131 East Lincoln Ave Suite 200	INVOICE ATTN TO	Jason Jayroe
CITY / STATE / ZIP	Fort Collins, CO 80524	ADDRESS	
PHONE	9704843263	CITY / STATE / ZIP	
FAX	9704843250	PHONE	
E-MAIL	jjayroe@trcsolutions.com	FAX	
		E-MAIL	

DATE 11/26/2018

TURNAROUND Normal

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	BTEX, 1,2 DCA	Sulfate
1	Inj-West	GW	11/21/2018	*0750	4	HCL		X	X
2	MW-17	GW	11/21/2018	*0830	4	HCL		X	X
3	MW-117	GW	11/21/2018	*1200	3	HCL		X	
4	Inj-North	GW	11/21/2018	*1030	4	HCL		X	X
5	Inj-South	GW	11/21/2018	*0900	4	HCL		X	X
6	Inj-East	GW	11/21/2018	*0940	4	HCL		X	X
7	MW-20	GW	11/21/2018	*1300	3	HCL		X	

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: 5.4°

QC PACKAGE (check below)

- LEVEL II (Standard QC)
- LEVEL III (Std QC + forms)
- LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Jason Jayroe	11/26/18	1230
RECEIVED BY		Nick Josties	11/26/18	14:15
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: TRC_FC Workorder No: 1811448

Project Manager: MMH Initials: KS Date: 11.26.18

1.	Are airbills / shipping documents present and/or removable?	DROP OFF	YES	NO
2.	Are custody seals on **shipping** containers intact?	NONE	YES	NO
3.	Are custody seals on **sample** containers intact?	NONE	YES	NO
4.	Is there a COC (chain-of-custody) present?		YES	NO
5.	Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		YES	NO
6.	Are short-hold samples present?		YES	NO
7.	Are all samples within holding times for the requested analyses?		YES	NO
8.	Were all sample containers received intact? (not broken or leaking)		YES	NO
9.	Is there sufficient sample for the requested analyses?		YES	NO
10.	Are all samples in the proper containers for the requested analyses?		YES	NO
11.	Are all aqueous samples preserved correctly, if required? (excluding volatiles)	N/A	YES	NO
12.	Are all aqueous non-preserved samples pH 4-9?	N/A	YES	NO
13.	Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)	N/A	YES	NO
14.	Were the samples shipped on ice?		YES	NO
15.	Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #1 #3 #4	RAD ONLY	YES	NO

Cooler #:	1							
Temperature (°C):	5.4							
No. of custody seals on cooler:	0							
DOT Survey/ Acceptance Information — External µR/hr reading:	N/A							
Background µR/hr reading:	10							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? **YES / NO / NA** (If no, see Form 008.)

Additional Information: **Please provide details here for any NO responses to gray-shaded boxes above, or any other issues noted:**

5) Sample 8 is the 2 vials of trip blank - not listed on HCL
Sample 7 COC ID is MW-20 -vs- bottle ID MW-22; all other info matches

13) all vials have >1/4mm headspace except Sample 7 bottles 1:2

All client bottle ID's vs ALS lab ID's double-checked by: KS

If applicable, was the client contacted? **YES / NO / NA** Contact: _____ Date/Time: _____

Project Manager Signature / Date: 11-27-18

Form 201r26.xls
(06/29/2018)

*IR Gun #1, VWR SN 170560549
*IR Gun #3, VWR SN 170647571
*IR Gun #4, Oakton, SN 2372220101-0002

Client: TRC **Date:** *07-Dec-18*
Project: Maverik Kirtland **Work Order:** 1811448
Sample ID: Inj-West **Lab ID:** 1811448-1
Legal Location: **Matrix:** WATER
Collection Date: 11/21/2018 07:50 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**		Prep Date: **11/27/2018**	PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	11/27/2018 14:49
BENZENE	ND		1	UG/L	1	11/27/2018 14:49
ETHYLBENZENE	ND		1	UG/L	1	11/27/2018 14:49
M+P-XYLENE	ND		1	UG/L	1	11/27/2018 14:49
O-XYLENE	ND		1	UG/L	1	11/27/2018 14:49
TOLUENE	ND		1	UG/L	1	11/27/2018 14:49
Surr: 4-BROMOFLUOROBENZENE	*103*		*85-115*	*%REC*	1	11/27/2018 14:49
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	11/27/2018 14:49
Surr: TOLUENE-D8	*101*		*85-115*	*%REC*	1	11/27/2018 14:49
Ion Chromatography			**EPA300.0**		Prep Date: **11/28/2018**	PrepBy: **HMA**
SULFATE	**2000**		**100**	**MG/L**	100	11/28/2018 10:15

Client: TRC **Date:** *07-Dec-18*
Project: Maverik Kirtland **Work Order:** 1811448
Sample ID: MW-17 **Lab ID:** 1811448-2
Legal Location: **Matrix:** WATER
Collection Date: 11/21/2018 08:30 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**		Prep Date: **11/27/2018**	PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	11/27/2018 15:11
BENZENE	ND		1	UG/L	1	11/27/2018 15:11
ETHYLBENZENE	ND		1	UG/L	1	11/27/2018 15:11
M+P-XYLENE	ND		1	UG/L	1	11/27/2018 15:11
O-XYLENE	ND		1	UG/L	1	11/27/2018 15:11
TOLUENE	ND		1	UG/L	1	11/27/2018 15:11
Surr: 4-BROMOFLUOROBENZENE	*103*		*85-115*	*%REC*	1	11/27/2018 15:11
Surr: DIBROMOFLUOROMETHANE	*103*		*84-118*	*%REC*	1	11/27/2018 15:11
Surr: TOLUENE-D8	*97*		*85-115*	*%REC*	1	11/27/2018 15:11
Ion Chromatography			**EPA300.0**		Prep Date: **11/28/2018**	PrepBy: **HMA**
SULFATE	**5600**		**100**	**MG/L**	100	11/28/2018 10:27

Client: TRC **Date:** *07-Dec-18*
Project: Maverik Kirtland **Work Order:** 1811448
Sample ID: MW-117 **Lab ID:** 1811448-3
Legal Location: **Matrix:** WATER
Collection Date: 11/21/2018 12:00 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **11/27/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	11/27/2018 15:32
BENZENE	ND		1	UG/L	1	11/27/2018 15:32
ETHYLBENZENE	ND		1	UG/L	1	11/27/2018 15:32
M+P-XYLENE	ND		1	UG/L	1	11/27/2018 15:32
O-XYLENE	ND		1	UG/L	1	11/27/2018 15:32
TOLUENE	ND		1	UG/L	1	11/27/2018 15:32
Surr: 4-BROMOFLUOROBENZENE	*101*		*85-115*	*%REC*	1	11/27/2018 15:32
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	11/27/2018 15:32
Surr: TOLUENE-D8	*98*		*85-115*	*%REC*	1	11/27/2018 15:32

Client: TRC **Date:** *07-Dec-18*
Project: Maverik Kirtland **Work Order:** 1811448
Sample ID: Inj-North **Lab ID:** 1811448-4
Legal Location: **Matrix:** WATER
Collection Date: 11/21/2018 10:30 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**		Prep Date: **11/27/2018**	PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	11/27/2018 15:53
BENZENE	**0.36**	J	**1**	**UG/L**	1	11/27/2018 15:53
ETHYLBENZENE	ND		1	UG/L	1	11/27/2018 15:53
M+P-XYLENE	ND		1	UG/L	1	11/27/2018 15:53
O-XYLENE	ND		1	UG/L	1	11/27/2018 15:53
TOLUENE	ND		1	UG/L	1	11/27/2018 15:53
Surr: 4-BROMOFLUOROBENZENE	*100*		*85-115*	*%REC*	1	11/27/2018 15:53
Surr: DIBROMOFLUOROMETHANE	*98*		*84-118*	*%REC*	1	11/27/2018 15:53
Surr: TOLUENE-D8	*99*		*85-115*	*%REC*	1	11/27/2018 15:53
Ion Chromatography			**EPA300.0**		Prep Date: **11/28/2018**	PrepBy: **HMA**
SULFATE	**4200**		**100**	**MG/L**	100	11/28/2018 10:39

Client: TRC **Date:** *07-Dec-18*
Project: Maverik Kirtland **Work Order:** 1811448
Sample ID: Inj-South **Lab ID:** 1811448-5
Legal Location: **Matrix:** WATER
Collection Date: 11/21/2018 09:00 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**		Prep Date: **11/27/2018**	PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	11/27/2018 16:15
BENZENE	ND		1	UG/L	1	11/27/2018 16:15
ETHYLBENZENE	ND		1	UG/L	1	11/27/2018 16:15
M+P-XYLENE	ND		1	UG/L	1	11/27/2018 16:15
O-XYLENE	ND		1	UG/L	1	11/27/2018 16:15
TOLUENE	ND		1	UG/L	1	11/27/2018 16:15
Surr: 4-BROMOFLUOROBENZENE	*101*		*85-115*	*%REC*	1	11/27/2018 16:15
Surr: DIBROMOFLUOROMETHANE	*102*		*84-118*	*%REC*	1	11/27/2018 16:15
Surr: TOLUENE-D8	*102*		*85-115*	*%REC*	1	11/27/2018 16:15
Ion Chromatography			**EPA300.0**		Prep Date: **11/28/2018**	PrepBy: **HMA**
SULFATE	**2300**		**100**	**MG/L**	100	11/28/2018 10:51

Client: TRC **Date:** *07-Dec-18*
Project: Maverik Kirtland **Work Order:** 1811448
Sample ID: Inj-East **Lab ID:** 1811448-6
Legal Location: **Matrix:** WATER
Collection Date: 11/21/2018 09:40 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**		Prep Date: **11/27/2018**	PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	11/27/2018 16:36
BENZENE	ND		1	UG/L	1	11/27/2018 16:36
ETHYLBENZENE	ND		1	UG/L	1	11/27/2018 16:36
M+P-XYLENE	ND		1	UG/L	1	11/27/2018 16:36
O-XYLENE	ND		1	UG/L	1	11/27/2018 16:36
TOLUENE	ND		1	UG/L	1	11/27/2018 16:36
Surr: 4-BROMOFLUOROBENZENE	*103*		*85-115*	*%REC*	1	11/27/2018 16:36
Surr: DIBROMOFLUOROMETHANE	*101*		*84-118*	*%REC*	1	11/27/2018 16:36
Surr: TOLUENE-D8	*100*		*85-115*	*%REC*	1	11/27/2018 16:36
Ion Chromatography			**EPA300.0**		Prep Date: **11/28/2018**	PrepBy: **HMA**
SULFATE	**1900**		**100**	**MG/L**	100	11/28/2018 11:04

Client:	TRC	**Date:**	*07-Dec-18*
Project:	Maverik Kirtland	**Work Order:**	1811448
Sample ID:	MW-20	**Lab ID:**	1811448-7
Legal Location:		**Matrix:**	WATER
Collection Date:	11/21/2018 13:00	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**		Prep Date: **11/27/2018**	PrepBy: **JXK**
1,2-DICHLOROETHANE	**36**		**1**	**UG/L**	1	11/27/2018 16:57
BENZENE	**1.3**		**1**	**UG/L**	1	11/27/2018 16:57
ETHYLBENZENE	ND		1	UG/L	1	11/27/2018 16:57
M+P-XYLENE	ND		1	UG/L	1	11/27/2018 16:57
O-XYLENE	ND		1	UG/L	1	11/27/2018 16:57
TOLUENE	ND		1	UG/L	1	11/27/2018 16:57
Surr: 4-BROMOFLUOROBENZENE	*99*		*85-115*	*%REC*	1	11/27/2018 16:57
Surr: DIBROMOFLUOROMETHANE	*100*		*84-118*	*%REC*	1	11/27/2018 16:57
Surr: TOLUENE-D8	*102*		*85-115*	*%REC*	1	11/27/2018 16:57

Client: TRC **Date:** *07-Dec-18*
Project: Maverik Kirtland **Work Order:** 1811448
Sample ID: Trip Blank **Lab ID:** 1811448-8
Legal Location: **Matrix:** WATER
Collection Date: 11/21/2018 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			**SW8260_25**	Prep Date: **11/27/2018**		PrepBy: **JXK**
1,2-DICHLOROETHANE	ND		1	UG/L	1	11/27/2018 14:28
BENZENE	ND		1	UG/L	1	11/27/2018 14:28
ETHYLBENZENE	ND		1	UG/L	1	11/27/2018 14:28
M+P-XYLENE	ND		1	UG/L	1	11/27/2018 14:28
O-XYLENE	ND		1	UG/L	1	11/27/2018 14:28
TOLUENE	ND		1	UG/L	1	11/27/2018 14:28
Surr: 4-BROMOFLUOROBENZENE	*102*		*85-115*	*%REC*	1	11/27/2018 14:28
Surr: DIBROMOFLUOROMETHANE	*98*		*84-118*	*%REC*	1	11/27/2018 14:28
Surr: TOLUENE-D8	*99*		*85-115*	*%REC*	1	11/27/2018 14:28

Client:	TRC	**Date:**	*07-Dec-18*
Project:	Maverik Kirtland	**Work Order:**	1811448
Sample ID:	Trip Blank	**Lab ID:**	1811448-8
Legal Location:		**Matrix:**	WATER
Collection Date:	11/21/2018	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC
U or ND - Result is less than the sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
W - DER is greater than Warning Limit of 1.42
* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
G - Sample density differs by more than 15% of LCS density.
D - DER is greater than Control Limit
M - Requested MDC not met.
LT - Result is less than requested MDC but greater than achieved MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
L - LCS Recovery below lower control limit.
H - LCS Recovery above upper control limit.
P - LCS, Matrix Spike Recovery within control limits.
N - Matrix Spike Recovery outside control limits
NC - Not Calculated for duplicate results less than 5 times MDC
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
U or ND - Indicates that the compound was analyzed for but not detected.
E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
M - Duplicate injection precision was not met.
N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
* - Duplicate analysis (relative percent difference) not within control limits.
S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
E - Analyte concentration exceeds the upper level of the calibration range.
J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
A - A tentatively identified compound is a suspected aldol-condensation product.
X - The analyte was diluted below an accurate quantitation level.
* - The spike recovery is equal to or outside the control criteria used.
+ - The relative percent difference (RPD) equals or exceeds the control criteria.
G - A pattern resembling gasoline was detected in this sample.
D - A pattern resembling diesel was detected in this sample.
M - A pattern resembling motor oil was detected in this sample.
C - A pattern resembling crude oil was detected in this sample.
4 - A pattern resembling JP-4 was detected in this sample.
5 - A pattern resembling JP-5 was detected in this sample.
H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Batch ID: **VL181127-3-1** Instrument ID **HPV3** Method: **SW8260_25**

LCS Sample ID: **VL181127-3** Units: **%REC** Analysis Date: **11/27/2018 10:51**

Client ID: Run ID: **VL181127-3A** Prep Date: **11/27/2018** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25		25		100	85-115					
Surr: DIBROMOFLUOROMETHANE	24.3		25		97	84-118					
Surr: TOLUENE-D8	25.6		25		102	85-115					
1,2-DICHLOROETHANE	9.82	1	10		98	74-128				20	
BENZENE	10.5	1	10		105	83-117				20	
ETHYLBENZENE	10.3	1	10		103	81-113				20	
M+P-XYLENE	21.3	1	20		106	82-115				20	
O-XYLENE	10.6	1	10		106	81-115				20	
TOLUENE	10.3	1	10		103	82-113				20	

LCSD Sample ID: **VL181127-3** Units: **%REC** Analysis Date: **11/27/2018 11:12**

Client ID: Run ID: **VL181127-3A** Prep Date: **11/27/2018** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.5		25		102	85-115			2		
Surr: DIBROMOFLUOROMETHANE	24.1		25		96	84-118			1		
Surr: TOLUENE-D8	25.6		25		103	85-115			0		
1,2-DICHLOROETHANE	9.21	1	10		92	74-128		9.82	6	20	
BENZENE	9.79	1	10		98	83-117		10.5	7	20	
ETHYLBENZENE	10.1	1	10		101	81-113		10.3	3	20	
M+P-XYLENE	20.2	1	20		101	82-115		21.3	5	20	
O-XYLENE	10	1	10		100	81-115		10.6	6	20	
TOLUENE	10.2	1	10		102	82-113		10.3	1	20	

Client: TRC
Work Order: 1811448
Project: Maverik Kirtland

QC BATCH REPORT

Batch ID: **VL181127-3-1** Instrument ID **HPV3** Method: **SW8260_25**

MB Sample ID: **VL181127-3** Units: **%REC** Analysis Date: **11/27/2018 11:58**
Client ID: Run ID: **VL181127-3A** Prep Date: **11/27/2018** DF: **1**

Analyte	Result	ReportLimit			Qual
Surr: 4-BROMOFLUOROBENZENE	25.2		101	85-115	
Surr: DIBROMOFLUOROMETHANE	24.3		97	84-118	
Surr: TOLUENE-D8	25		100	85-115	
1,2-DICHLOROETHANE	ND	1			
BENZENE	ND	1			
ETHYLBENZENE	ND	1			
M+P-XYLENE	ND	1			
O-XYLENE	ND	1			
TOLUENE	ND	1			

The following samples were analyzed in this batch:

1811448-1	1811448-2	1811448-3
1811448-4	1811448-5	1811448-6
1811448-7	1811448-8	

Client: TRC
Work Order: 1811448
Project: Maverik Kirtland

QC BATCH REPORT

Batch ID: **IC181128-1-1** Instrument ID **IC3** Method: **EPA300.0**

LCS Sample ID: **IC181128-1** Units: **MG/L** Analysis Date: **11/28/2018 08:49**
Client ID: Run ID: **IC181128-1A1** Prep Date: **11/28/2018** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
SULFATE	50.8	1	50		102	90-110				15	

LCSD Sample ID: **IC181128-1** Units: **MG/L** Analysis Date: **11/28/2018 11:16**
Client ID: Run ID: **IC181128-1A1** Prep Date: **11/28/2018** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
SULFATE	50.9	1	50		102	90-110		50.8	0	15	

MB Sample ID: **IC181128-1** Units: **MG/L** Analysis Date: **11/28/2018 09:02**
Client ID: Run ID: **IC181128-1A1** Prep Date: **11/28/2018** DF: **1**

Analyte	Result	ReportLimit	Qual
SULFATE	ND	1	

The following samples were analyzed in this batch:

1811448-1	1811448-2	1811448-4
1811448-5	1811448-6	