



**New York State Department of
Environmental Conservation**

Division of Environmental Remediation

**Remedial System Optimization
Report - Third Quarter 2014**

Vestal Water Supply Site
Vestal, New York
Site Number 7-04-009A

January 2015



A handwritten signature in black ink, appearing to read "Bruce Nelson".

Bruce Nelson, CPG
Vice President

A handwritten signature in black ink, appearing to read "Jeremy Wyckoff".

Jeremy Wyckoff
Project Geologist

Remedial System Optimization Report

Vestal Water Supply Site
Site Number 7-04-009A

Prepared for:
New York State Department of
Environmental Conservation

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Malcolm Pirnie, Inc. was acquired by
ARCADIS in July 2009.

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1. Introduction

The New York State Department of Environmental Conservation (NYSDEC) issued a Work Assignment (# D004443-4) to (Malcolm Pirnie, Inc. (Malcolm Pirnie) for Operation, Maintenance, and Monitoring at the Vestal Water Supply Site (site) in New York State (Site # 7-04-009A) (Figure 1-1).

The NYSDEC is evaluating the efficiency, effectiveness, environmental benefit, and cost of existing environmental remedies by performing a Remedial System Optimization (RSO). The purpose of the RSO is to assess the site's Conceptual Site Model (CSM), provide a summary of the performance of the remedy, document current cleanup practices, provide a summary of progress toward the cleanup goals, and provide recommendations for improvements, if required.

The Well 1-1A groundwater treatment plant was temporarily shut down on February 28, 2014 as part of the RSO to evaluate the impacts to groundwater quality while the treatment plant is not operating. In particular, plume migration is being monitored to assess the effects of groundwater withdrawals from the Town of Vestal water supply wells 1-2A and 1-3 on the groundwater plume distribution and migration. In addition, soil and groundwater samples have been collected to further evaluate the horizontal and vertical distribution of VOCs in the area of the site.

In accordance with the RSO Work Plan, this Quarterly Report has been prepared to summarize the July 2014 through September 2014 field activities.

2. Investigation Activities

The scope of work for the RSO was designed to provide data for use in evaluation of the existing remedy and to further characterize the nature and extent of contamination in soil and groundwater at the site. The RSO provides information that is being used to assess the efficiency of the remedy and evaluate potential alternative remedial approaches, which will be summarized in the Focused Feasibility Study (FFS).

The basic scope of work included field oversight of subcontractors (i.e., driller and surveyor), preparation of daily field logs, collection of subsurface and surface soil samples, installation of monitoring wells, monitoring well development and hydraulic conductivity testing, measuring groundwater levels, installation of groundwater level data loggers, shut-down of the Well 1-1A groundwater treatment plant for a period up to one year, collection of groundwater samples from new and existing wells, evaluation of data, and reporting of conclusions and recommendations.

Currently the investigation includes monthly pre-treatment sampling for the Town of Vestal water supply wells 1-2A and 1-3 and quarterly groundwater sampling from the new and existing monitoring wells.

2.1 Groundwater Sampling

Groundwater samples were collected from existing and newly installed monitoring wells on August 28, 2014 (Figure 2-2). This sampling event is the second of three quarterly monitoring events scheduled to be completed following the temporary shutdown of the Well 1-1A groundwater treatment plant. Groundwater samples were collected using passive diffusion bags (PDBs) in accordance with the RSO Work Plan and were submitted for analysis of TCL VOCs by USEPA Method 8260 to TestAmerica-Buffalo following chain-of-custody sample handling procedures. With the exception of ERT-4I, the USEPA ERT monitoring wells on the ECO International property and Well 1-1A were not sampled during this event.

2.1.1 Water Level Data

Groundwater levels were measured on August 11, 2014 using an oil-water interface probe. As indicated in Section 1, the Well 1-1A treatment plant continues to be shut down, therefore, groundwater levels are representative of static (non-pumping) conditions. Groundwater levels were used to calculate groundwater elevations and assess groundwater flow conditions across the site. A summary of groundwater

elevation data is provided in Table 2-1. As shown in Table 2-1, light non-aqueous phase liquid (LNAPL) was detected in monitoring well ERT-1S during the August 11, 2014 (1.01 ft.) gauging event. Based on gauging data presented in the 2012 Conceptual Site Model (Lockheed Martin, 2012), LNAPL has previously been identified in this well and is not believed to be wide-spread in that area. A trace of LNAPL (0.01 ft) was also present in monitoring wells ERT-2D and ERT-3D during the August 11, 2014 gauging event.

The August 11, 2014 potentiometric maps (Figures 2-2, 2-3, and 2-4) provide groundwater flow information for the shallow, intermediate, and deep groundwater monitoring zones during the Well 1-1A treatment plant shutdown period.

2.1.1.1 Third Quarter (August 11, 2014)

As shown on Figures 2-2 and 2-3, the direction of groundwater flow in the shallow and intermediate groundwater monitoring zones is generally west to northwest. Figure 2-4 shows that the direction of groundwater flow in the deep groundwater monitoring zone between the Well 1-1A treatment facility and the Town of Vestal Wells 1-2A and 1-3 is northeast, toward Well 1-1A and the Susquehanna River. The groundwater flow direction in the shallow, intermediate and deep monitoring zones are generally consistent with the previous groundwater flow assessments for the respective monitoring zones.

2.1.2 Third Quarter Groundwater Sampling

On August 28, 2014 groundwater samples were collected using PDBs that were deployed on August 11, 2014. PDBs were deployed in 21 existing and 13 newly installed monitoring wells. The USEPA ERT monitoring wells (Figure 2-1) on the ECO International property (the source area) were not sampled by ARCADIS during this event. However, the NYSDEC collected two samples from ERT-4I on August 28, 2014 to evaluate the treatability of source area groundwater. The NYSDEC was provided these data on September 30, 2014. Extraction Well 1-1A was sampled during the baseline event, but after the shutdown of the Well-1A treatment facility a sample is not able to be collected from this well.

Based on a review of the analytical data, several sample locations reported all compounds as estimated "J". This was due to samples being analyzed outside the required hold time.

Also included in this data set were sample results associated with compounds exhibiting concentrations greater than the linear range. Sample results in this case, were qualified as estimated D or DJ respectively, due to the sample dilution in the laboratory at the time of analysis.

2.1.2.1 Third Quarter Groundwater Sampling Results

Groundwater results from the August 28, 2014 third quarter groundwater sampling event are provided in Table 2-2. The VOCs measured at the highest concentrations were 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), and vinyl chloride (VC). Total VOC concentrations measured at the shallow, intermediate, and deep groundwater monitoring zones, and total VOC concentrations during the third quarter groundwater sampling event are presented on Figures 2-5, 2-6, 2-7, and 2-8, respectively.

As shown in Table 2-2, the highest VOC concentrations in groundwater samples collected during the third quarter sampling event and were at 4009-25S which is immediately down-gradient of the source area (ECO International property). The groundwater samples collected from 4009-25S contained the maximum concentration of total VOCs (14,060 µg/L). As shown on Figure 2-5, the highest concentrations of VOCs in the shallow groundwater monitoring zone are found in the vicinity of the source area. As indicated in Section 2.1.2, The NYSDEC collected two samples from monitoring well ERT-4I located on the ECO international property. The total VOC concentrations in in the samples from this well were 3,860 µg/L and 2,908 µg/L.

Figure 2-6 shows that the VOC plume in the intermediate groundwater monitoring zone extends approximately 1,000 feet farther to the west toward Well 1-1A compared to the shallow groundwater monitoring zone. As shown on Figure 2-6, the highest concentration of total VOCs in the intermediate groundwater monitoring zone detected down-gradient from the source area, was 3,717 µg/L in the sample from monitoring well 4009-8.

Figure 2-7 and Table 2-2 show that monitoring wells 4009-12, 4009-13, 4009-16, and 4009-29D were the only wells screened in the deep groundwater monitoring zone that contained concentrations of VOCs that exceeded NYSDEC Class GA Groundwater Standards. The total VOCs measured at each of the deep monitoring wells is as

follows; 4009-12 (11.74 µg/L), 4009-13 (7.50 µg/L), 4009-16 (9.7 µg/L), and 4009-29D (2,480 µg/L).

Figure 2-8 shows that the groundwater contamination plume is relatively narrow from the source area to monitoring well 4009-12A. Decades of pumping at extraction Wells 1-1 (and replacement well 1-1A) have caused the plume to be drawn from the water table in the vicinity of the source area, to greater than 100 feet bgs approximately 2,000 feet to the west. Analytical data from groundwater monitoring wells between extraction Well 1-1A and the Town of Vestal wells 1-2A and 1-3, indicate that extraction Well 1-1A maintained hydraulic control of the plume.

Quarterly groundwater monitoring data indicate that there is little change in the shallow, intermediate, and deep groundwater plume distribution and migration since the shutdown of the Well 1-1A groundwater treatment plant. Changes in the VOC concentration figures are primarily associated with the exclusion of the USEPA ERT monitoring wells on the ECO International property and Well 1-1A since the baseline sampling event, with some VOC concentration fluctuations after the shutdown of extraction Well 1-1A. Historically the concentrations surrounding the ECO international property have been the greatest, consistent with this property being the source area.

Total VOCs detected in the groundwater samples collected in the August 2014 sampling event are generally consistent with the previous sampling results from the February, March, and May 2014 sampling events, with the exception of monitoring wells 4009-8, 4009-12, 4009-12A, 4009-25S, 4009-25D, and 4009-29D. Monitoring wells 4009-8, 4009-25S, and 4009-29D had higher total VOC concentrations and monitoring wells 4009-12, 4009-12A, and 4009-25D had lower total VOC concentrations when compared to previous sampling events. Concentrations of VOCs in samples from the monitoring wells in the vicinity of the Town of Vestals water supply wells 1-2A and 1-3 are below the NYSDEC Class GA Groundwater Standards with the exception of benzene in monitoring wells 4009-16 and 4009-16A. These detections, as well as others will continue to be monitored during the next quarter.

2.1.3 Post-shutdown Sampling

Quarterly groundwater samples will continue to be collected during the shutdown period of the Well 1-1A groundwater treatment system and analyzed for VOCs. Results from the third round of post-shutdown sampling will be presented in the RSO Fourth Quarter Report.

2.1.4 Town of Vestal Municipal Well Sampling

Monthly analytical data are provided by the Town of Vestal Water Superintendent for Well 1-2A and 1-3. Samples were collected on July 22, 2014, August 18, 2014, and September 30, 2014. Pre-treatment groundwater samples were also collected by Malcolm Pirnie from the Town of Vestal water supply wells 1-2A and 1-3 on July 30, 2014, August 28, 2014, and September 29, 2014. These samples were used to supplement the Town's monthly influent sampling data and to evaluate potential impacts to the Town's water supply wells related to the shutdown of the Well 1-1A treatment plant. Samples were collected in consultation with the Town of Vestal Water District Superintendent and submitted to TestAmerica for analysis of VOCs by USEPA Method 8260. Town of Vestal Municipal Well Sampling Results

VOCs associated with contamination from the source area have not been detected in any of the pre-treatment effluent samples collected from the Town of Vestal water supply wells 1-2A and 1-3 during this reporting period. A summary of the monthly analytical data is provided in Table 2-3. Laboratory analytical reporting forms are provided in Appendix A.

3. Recommendations

Based on the RSO Work Plan, the Well 1-1A groundwater treatment plant is scheduled to be off-line for a period up to one year. Therefore, the plant would be scheduled to resume operation in late February or early March 2015. However, based on information presented in the Vestal Water Supply Site Quarterly Report - First Quarter, 2014 (Malcolm Pirnie, 2014), the air stripper tower will require significant cleaning or replacement of the tower packing media to resume operation and for effective removal of VOCs from groundwater extracted by Well 1-1A.

A temporary rental air stripper could be considered while a determination is made regarding the long-term remedial options for the site. Malcolm Pirnie contacted a remediation equipment rental firm to obtain a quote for a rental air stripper. The quotation is provided in Appendix C. As indicated in the quotation, a rental air stripper rated for 550 GPM can be mobilized to the site and set up for approximately \$12,000; demobilization is approximately \$8,000. The monthly rental charge for the air stripper is \$8,000. Additional fees would be incurred for off-loading/loading the air stripper on the delivery truck, electrical connections, and piping. These items would be an additional estimated cost of approximately \$6,000.

The air stripper would be positioned inside the perimeter fence for the treatment plant. The air stripper would be placed on the asphalt parking area adjacent to the former Well 1-1 pump house and the Well 1-1A treatment plant. The air stripper would be connected to the existing 8-inch discharge piping for Well 1-1A in the former Well 1-1 pump house using 4-inch SCH 80 piping. Treated effluent from the air stripper would be piped to the Well 1-1A treatment plant and discharged to the clear well via gravity using 6-inch SCH 40 PVC. From there, the treated effluent would be conveyed to the Well 1-1A treatment plant outfall via the existing pipe network. A 460V 3PH electrical disconnect would be installed to provide the power required to operate the air stripper blower and controls.

4. Activities for Next Quarter

- Fourth quarter groundwater sampling scheduled for December 2014.
- Monthly post shutdown sampling at Town of Vestal Wells 1-2A and 1-3.

In accordance with the RSO Work Plan, fourth quarter sampling results will be presented in the RSO/FFS Report. A draft copy of this report will be presented to NYSDEC within 60 days of receiving final quarterly analytical data from the laboratory.

5. References

Ecology and Environment, 1986, Remedial Investigation Report, Risk Assessment, and Feasibility Study for Water Supply Well 1-1 Site, Vestal, New York.

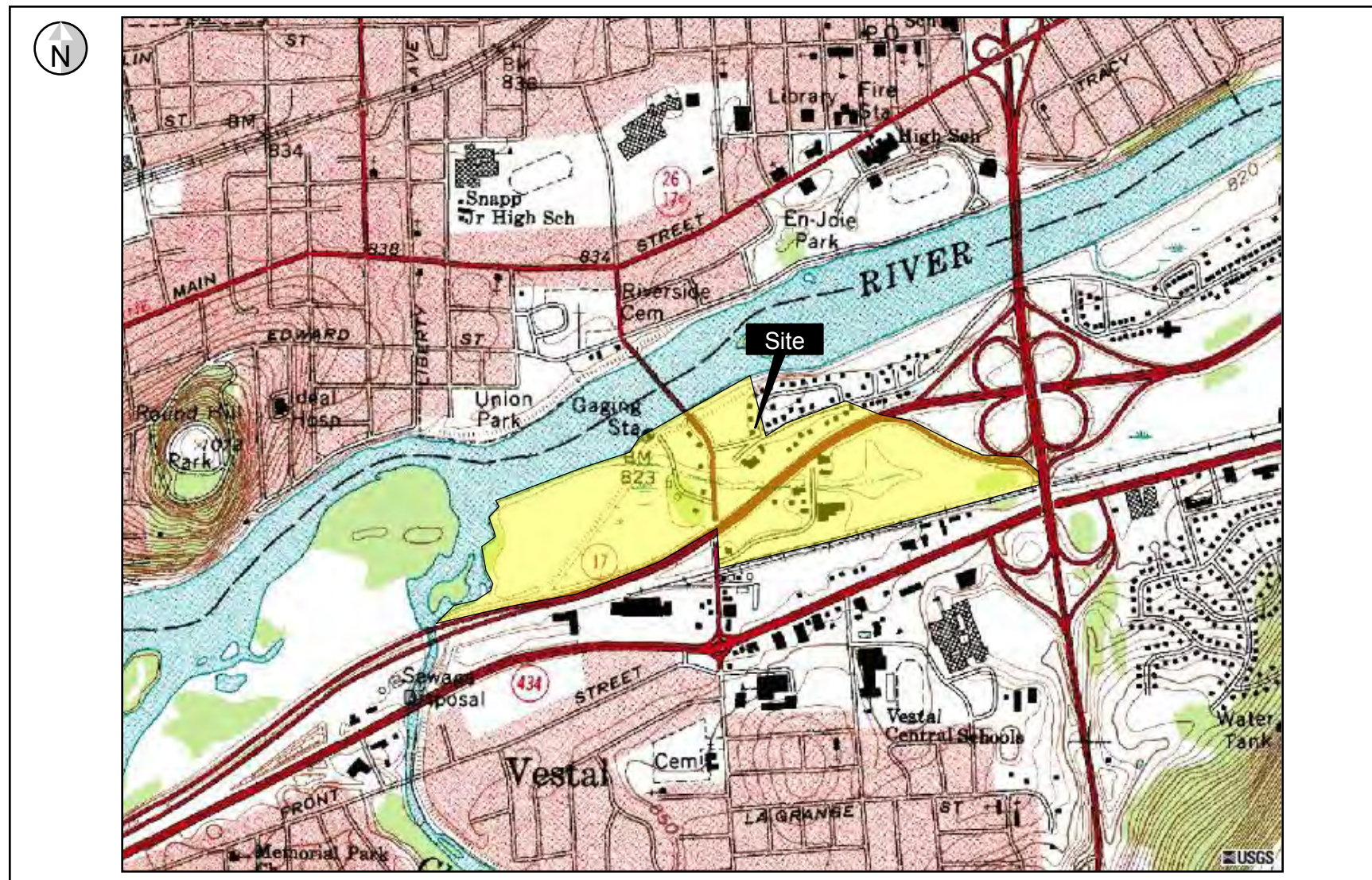
Ecology and Environment, 1986a, Work Plan for Additional Soil, Groundwater, and Geophysical Analysis at the Vestal Well Field Site, Vestal, New York, Vestal Phase II, April 10, 1986.

Lockheed Martin, 2012, Conceptual Site Model, Vestal Chlorinated Solvent Site, Vestal, New York, Work Assignment 0-064: Technical Memorandum.

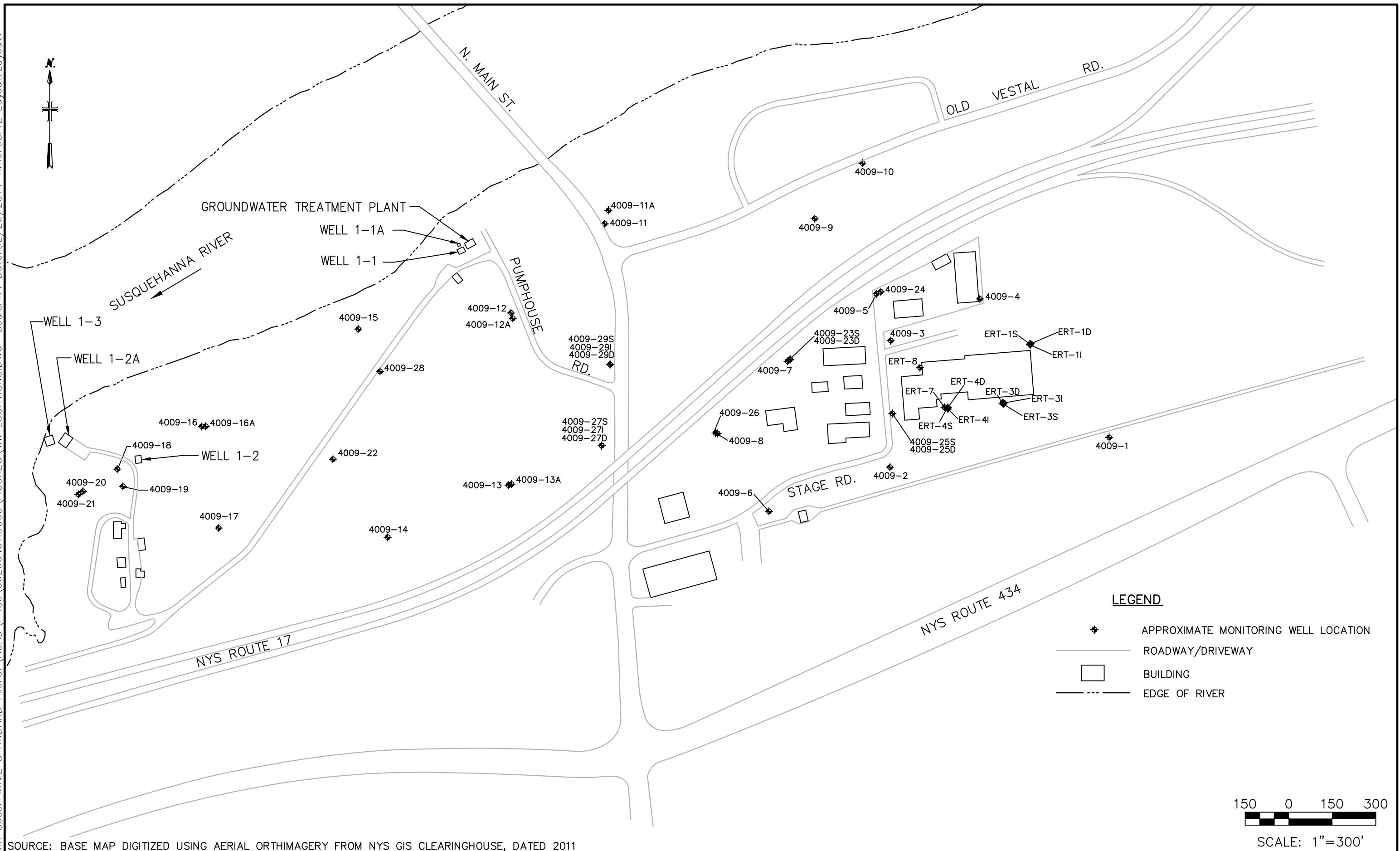
Malcolm Pirnie, 2013, Remedial Site Optimization Work Plan, Vestal Water Supply Site, Work Assignment D007618-7, Site Number 7-04-009A.

Malcolm Pirnie, 2014, Remedial Site Optimization Report 1st Quarter 2014, Vestal Water Supply Site, Work Assignment D007618-7, Site Number 7-04-009A.

Malcolm Pirnie, 2014, Vestal Water Supply Site Quarterly Report – First Quarter 2014, Work Assignment D007618-7, Site Number 7-04-009A.



Source: USGS 7.5-minute Series Topographic Quadrangle, Endicott (1988).



SOURCE: BASE MAP DIGITIZED USING AERIAL ORTHIMAGERY FROM NYS GIS CLEARINGHOUSE, DATED 2011

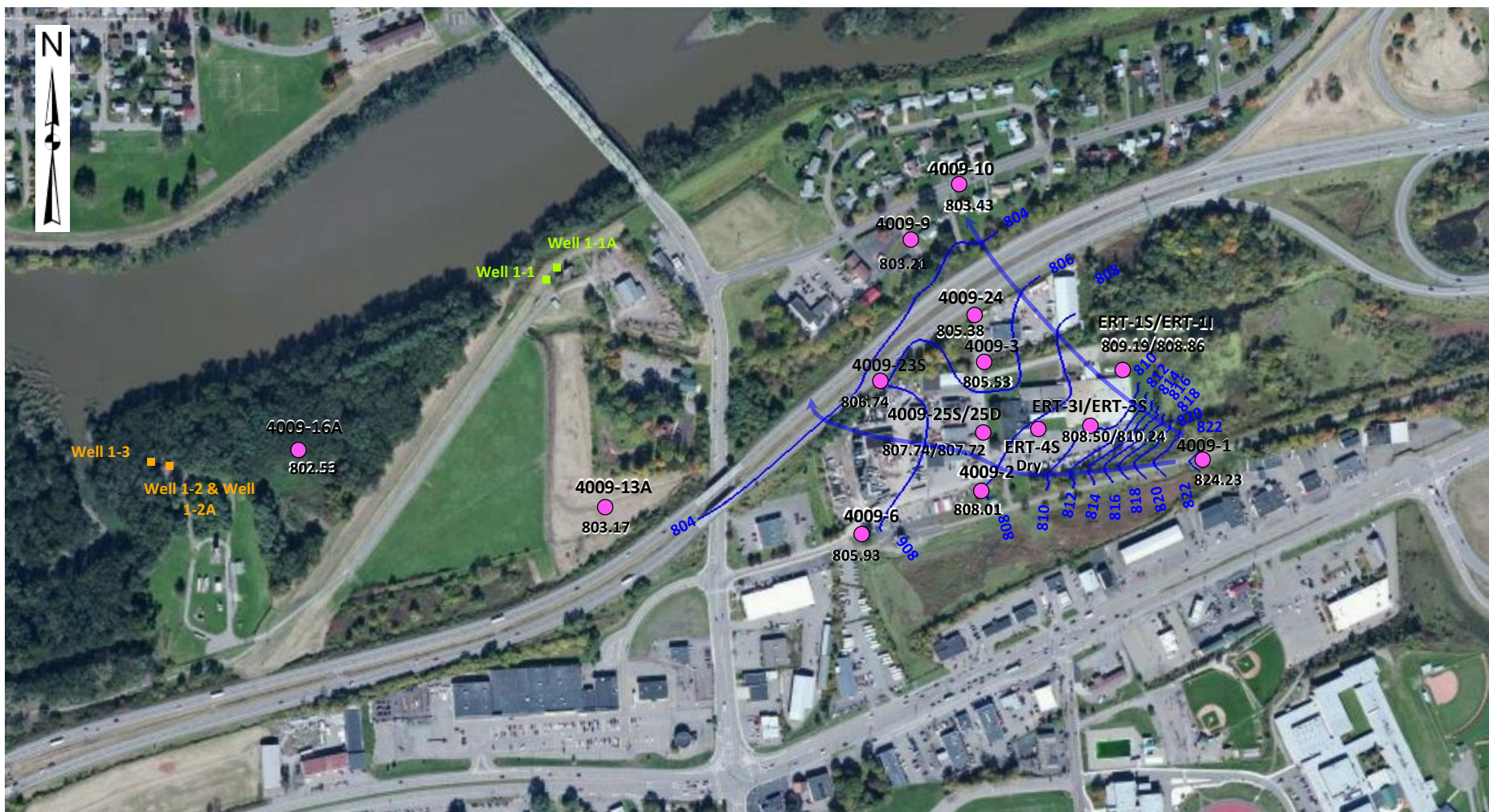


NYSDEC STANDBY CONTRACT NO. D007618-7
NYSDEC SITE NO. 7-04-009
VESTAL WATER SUPPLY
VESTAL, NEW YORK

MONITORING WELL LOCATION MAP

SCALE: AS SHOWN

MAY 2014
FIGURE 2-1



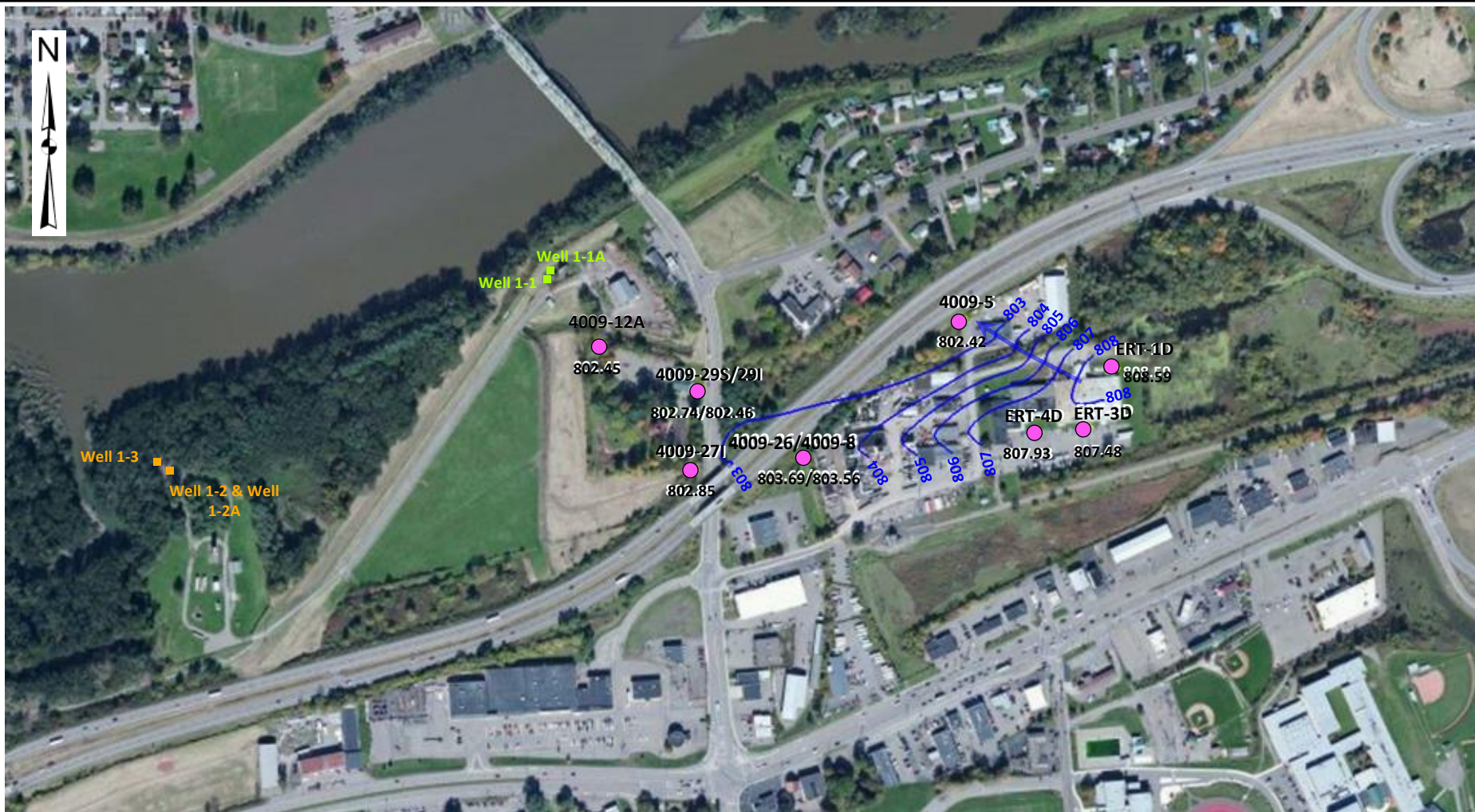
LEGEND

- **Well 1-1A**
EXTRACTION WELL & IDENTIFIER
- **4009-16A**
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
807.39
- ~ **808**
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- **Well 1-3**
WATER SUPPLY WELL & IDENTIFIER

0 350 700
APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Shallow Potentiometric Surface
with Well 1-1A Inactive
(August 2014 Heads)**



LEGEND

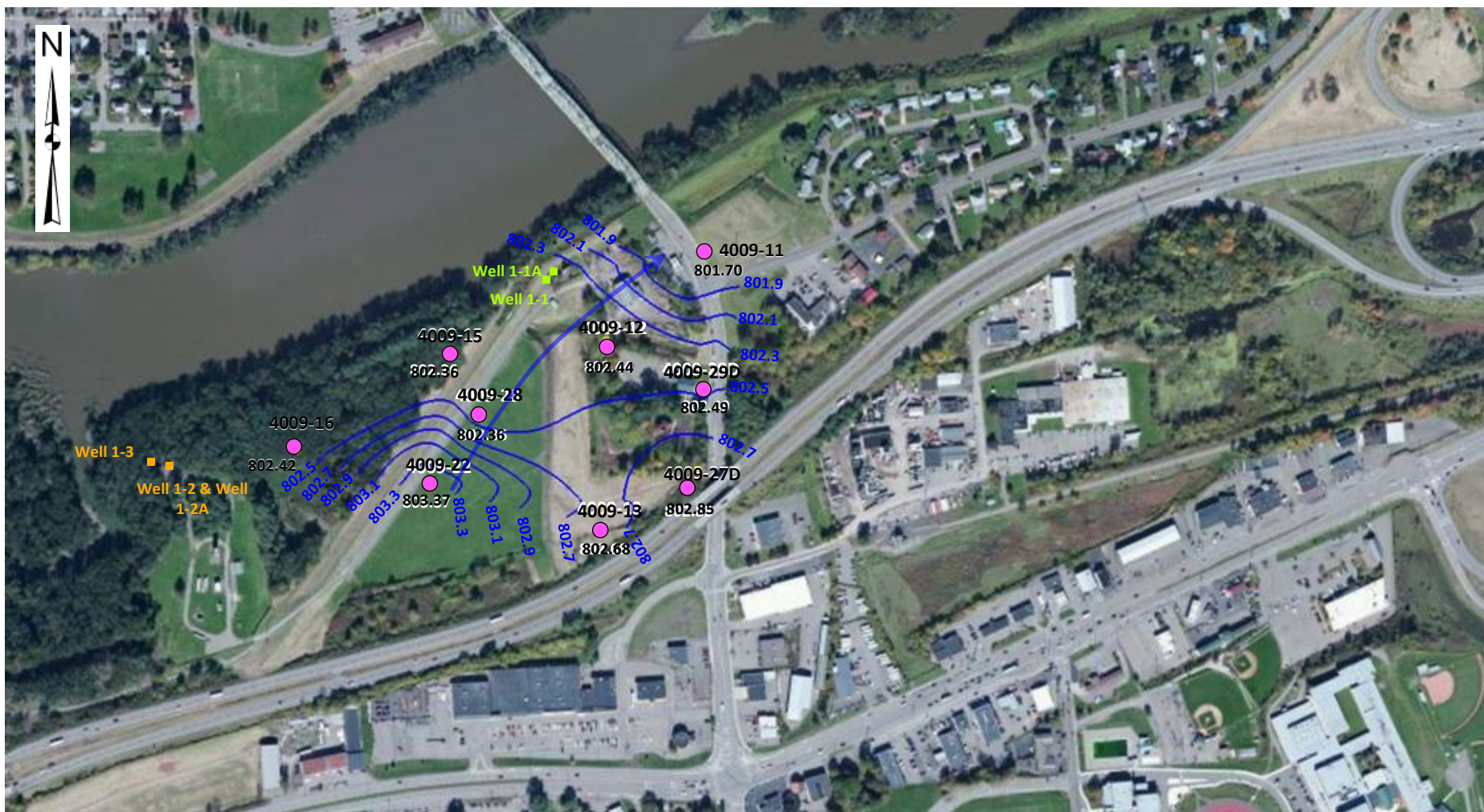
- Well 1-1A
EXTRACTION WELL & IDENTIFIER
- 4009-12A
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- 805.82
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- ~ 808
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- Well 1-3
WATER SUPPLY WELL & IDENTIFIER

0 350 700

 APPROXIMATE SCALE IN FEET

Vestal Water Supply
 NYSDEC Site #7-04-009
 Vestal, New York

**Intermediate Potentiometric
 Surface with Well 1-1A Inactive
 (August 2014 Heads)**



LEGEND

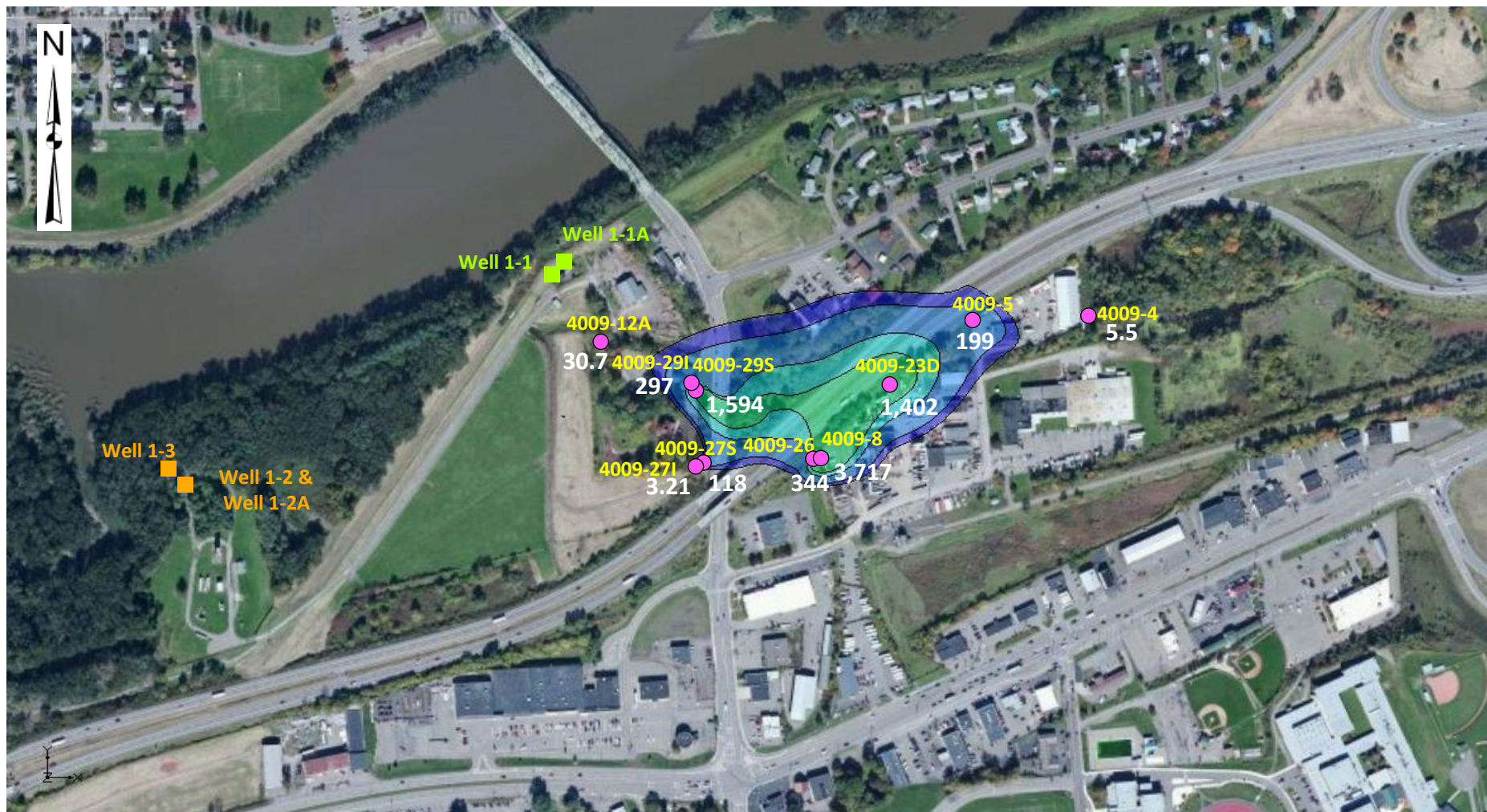
- Well 1-1A
 - 4009-15
 - 805.60
 - ~ 805.8
 - Well 1-3
- EXTRACTION WELL & IDENTIFIER
- MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- WATER SUPPLY WELL & IDENTIFIER

0 350 700

APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Deep Potentiometric Surface
with Well 1-1A Inactive
(August 2014 Heads)**



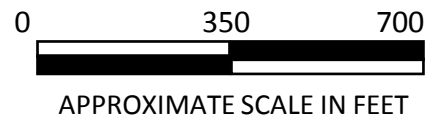
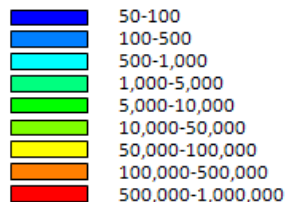
LEGEND

Well 1-3
WATER SUPPLY WELL & IDENTIFIER

4009-12A
MONITORING WELL & IDENTIFIER
30.7
Total VOC Concentration(ug/L);
"ND" indicates no detection

Well 1-1
EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/L)



Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Total VOC Concentrations
(Intermediate Wells)
August 28, 2014**

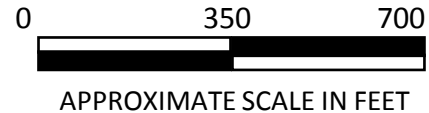


Well 1-3 WATER SUPPLY WELL & IDENTIFIER

4009-15	MONITORING WELL & IDENTIFIER
1.1	Total VOC Concentration(ug/L); "ND" indicates no detection

Well 1-1	EXTRACTION WELL & IDENTIFIER
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
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96	96
97	97
98	98
99	99
100	100

	50-100
	100-500
	500-1,000
	1,000-5,000
	5,000-10,000
	10,000-50,000
	50,000-100,000
	100,000-500,000
	500,000-1,000,000



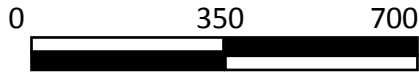
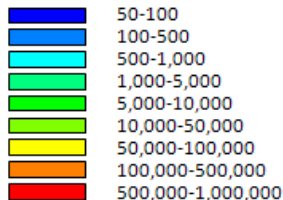
**Total VOC Concentrations
(Deep Wells)
August 28, 2014**



Well 1-3 WATER SUPPLY WELL & IDENTIFIER

4009-7	MONITORING WELL & IDENTIFIER
55.7	Total VOC Concentration(ug/L); "ND" indicates no detection

Well 1-1	EXTRACTION WELL & IDENTIFIER



**Total VOC Concentrations
(All Wells)
August 28, 2014**

Table 2-1 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / Third Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

WELL I.D.	Top of Riser (ft AMSL)	2/19/2014			3/17/2014		
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)
4009-1	831.98	7.43	NP	824.55	7.15	NP	824.83
4009-2	827.78	18.16	NP	809.62	17.96	NP	809.82
4009-3	823.47	16.92	NP	806.55	14.52	NP	808.95
4009-4	822.22	11.87	NP	810.35	10.64	NP	811.58
4009-5	824.36	18.47	NP	805.89	16.23	NP	808.13
4009-6	827.73	20.88	NP	806.85	19.38	NP	808.35
4009-7	824.27	18.76	NP	805.51	16.28	NP	807.99
4009-8	824.52	19.69	NP	804.83	13.28	NP	811.24
4009-9	825.05	20.36	NP	804.69	18.00	NP	807.05
4009-10	831.31	26.44	NP	804.87	24.28	NP	807.03
4009-11	830.06	26.95	NP	803.11	23.75	NP	806.31
4009-11A	830.80	15.22	NP	815.58	14.78	NP	816.02
4009-12	823.34	18.80	NP	804.54	16.68	NP	806.66
4009-12A	823.80	20.21	NP	803.59	16.60	NP	807.20
4009-13	816.28	12.31	NP	803.97	8.97	NP	807.31
4009-13A	816.17	11.74	NP	804.43	8.72	NP	807.45
4009-14	820.71	16.62	NP	804.09	13.43	NP	807.28
4009-15	826.54	22.63	NP	803.91	19.35	NP	807.19
4009-16	826.72	22.68	NP	804.04	19.50	NP	807.22
4009-16A	826.84	22.45	NP	804.39	19.45	NP	807.39
4009-17	820.53	26.12	NP	794.41	12.95	NP	807.58
4009-18	834.78	30.59	NP	804.19	27.61	NP	807.17
4009-19	824.94	20.79	NP	804.15	17.78	NP	807.16
4009-20	822.90	18.45	NP	804.45	15.60	NP	807.30
4009-21	823.10	18.90	NP	804.20	15.90	NP	807.20
4009-22	817.40	13.06	NP	804.34	9.85	NP	807.55
4009-23S	824.48	16.65	NP	807.83	15.48	NP	809.00
4009-23D	824.39	18.93	NP	805.46	16.37	NP	808.02
4009-24	822.32	15.52	NP	806.80	13.38	NP	808.94
4009-25S	823.61	14.77	NP	808.84	13.84	NP	809.77
4009-25D	823.57	14.98	NP	808.59	13.70	NP	809.87
4009-26	824.31	19.36	NP	804.95	16.55	NP	807.76
4009-27S	826.19	21.97	NP	804.22	18.80	NP	807.39
4009-27I	826.03	21.93	NP	804.10	18.63	NP	807.40
4009-27D	825.87	21.90	NP	803.97	18.43	NP	807.44
4009-28	821.59	17.71	NP	803.88	14.45	NP	807.14
4009-29S	825.77	21.75	NP	804.02	18.42	NP	807.35
4009-29I	825.68	21.94	NP	803.74	18.51	NP	807.17
4009-29D	825.67	21.92	NP	803.75	18.54	NP	807.13
WELL 1-1	832.36	29.09	NP	803.27	25.23	NP	807.13
WELL 1-1A	831.13	24.93	NP	806.20	24.13	NP	807.00
ERT-1S	824.01	12.65	11.72	810.57	11.83	10.88	811.37
ERT-1I	824.03	13.45	NP	810.58	12.43	NP	811.60
ERT-1D	823.88	13.50	13.49	810.38	12.50	NP	811.38
ERT-2S	824.67 *	14.19	NP	810.48	13.72	NP	810.95
ERT-2I	824.54 *	14.07	NP	810.47	13.08	NP	811.46
ERT-2D	824.44 *	12.98	NP	811.46	12.88	NP	811.56
ERT-3S	824.38	13.29	NP	811.09	12.94	NP	811.44
ERT-3I	824.23	14.21	NP	810.02	13.23	NP	811.00
ERT-3D	824.20	14.95	NP	809.25	14.62	NP	809.58
ERT-4S	823.54	13.32	NP	810.22	12.58	NP	810.96
ERT-4I	823.49	14.23	NP	809.26	13.37	NP	810.12
ERT-4D	823.63	14.55	NP	809.08	13.56	NP	810.07
ERT-5	824.64 *	NM	NM	NM	12.34	NP	812.30
ERT-6	824.74 *	14.25	NP	810.49	13.05	NP	811.69
ERT-7	823.96	15.38	NP	808.58	14.25	NP	809.71
ERT-8	824.69	16.70	NP	807.99	15.13	NP	809.56

Notes:

fbgs - feet below ground surface

famsl - feet above mean sea level

* - Elevation data from Conceptual Site

Model (Lockheed Martin, 2012).

NM - Not measured

NP - No product / LNAPL

Corrected based on assumed LNAPL
density of 0.85 g/cm3

Table 2-1 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / Third Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

WELL I.D.	Top of Riser (ft AMSL)	5/12/2014			8/11/2014		
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)
4009-1	831.98	7.26	NP	824.72	7.75	NP	824.23
4009-2	827.78	17.90	NP	809.88	19.77	NP	808.01
4009-3	823.47	15.10	NP	808.37	17.94	NP	805.53
4009-4	822.22	10.80	NP	811.42	13.87	NP	808.35
4009-5	824.36	17.70	NP	806.66	21.94	NP	802.42
4009-6	827.73	19.50	NP	808.23	21.80	NP	805.93
4009-7	824.27	16.91	NP	807.36	20.22	NP	804.05
4009-8	824.52	17.60	NP	806.92	20.96	NP	803.56
4009-9	825.05	18.82	NP	806.23	21.84	NP	803.21
4009-10	831.31	24.95	NP	806.36	27.88	NP	803.43
4009-11	830.06	24.89	NP	805.17	28.36	NP	801.70
4009-11A	830.80	14.56	NP	816.24	16.69	NP	814.11
4009-12	823.34	17.52	NP	805.82	20.90	NP	802.44
4009-12A	823.80	17.98	NP	805.82	21.35	NP	802.45
4009-13	816.28	10.42	NP	805.86	13.60	NP	802.68
4009-13A	816.17	9.94	NP	806.23	13.00	NP	803.17
4009-14	820.71	15.36	NP	805.35	18.07	NP	802.64
4009-15	826.54	11.93	NP	814.61	24.18	NP	802.36
4009-16	826.72	21.12	NP	805.60	24.30	NP	802.42
4009-16A	826.84	21.22	NP	805.62	24.31	NP	802.53
4009-17	820.53	14.52	NP	806.01	17.66	NP	802.87
4009-18	834.78	29.38	NP	805.40	32.23	NP	802.55
4009-19	824.94	19.54	NP	805.40	22.42	NP	802.52
4009-20	822.90	17.82	NP	805.08	20.25	NP	802.65
4009-21	823.10	17.65	NP	805.45	20.55	NP	802.55
4009-22	817.40	11.50	NP	805.90	14.03	NP	803.37
4009-23S	824.48	14.88	NP	809.60	17.74	NP	806.74
4009-23D	824.39	17.15	NP	807.24	20.50	NP	803.89
4009-24	822.32	13.99	NP	808.33	16.94	NP	805.38
4009-25S	823.61	13.95	NP	809.66	15.87	NP	807.74
4009-25D	823.57	13.78	NP	809.79	15.85	NP	807.72
4009-26	824.31	17.39	NP	806.92	20.62	NP	803.69
4009-27S	826.19	20.02	NP	806.17	23.29	NP	802.90
4009-27I	826.03	19.98	NP	806.05	23.18	NP	802.85
4009-27D	825.87	19.88	NP	805.99	23.02	NP	802.85
4009-28	821.59	16.00	NP	805.59	19.23	NP	802.36
4009-29S	825.77	19.75	NP	806.02	23.03	NP	802.74
4009-29I	825.68	19.86	NP	805.82	23.22	NP	802.46
4009-29D	825.67	19.80	NP	805.87	23.18	NP	802.49
WELL 1-1	832.36	25.50	NP	806.86	30.00	NP	802.36
WELL 1-1A	831.13	26.72	NP	804.41	23.03	NP	808.10
ERT-1S	824.01	11.53	10.62	811.71	13.96	12.95	809.19
ERT-1I	824.03	12.42	NP	811.61	15.17	NP	808.86
ERT-1D	823.88	12.42	NP	811.46	15.29	NP	808.59
ERT-2S	824.67 *	13.00	NP	811.67	15.66	NP	809.01
ERT-2I	824.54 *	13.06	NP	811.48	15.60	NP	808.94
ERT-2D	824.44 *	12.56	12.55	811.88	14.97	14.96	809.46
ERT-3S	824.38	11.83	NP	812.55	14.14	NP	810.24
ERT-3I	824.23	13.20	NP	811.03	15.73	NP	808.50
ERT-3D	824.20	13.78	NP	810.42	16.72	16.71	807.47
ERT-4S	823.54	12.85	NP	810.69	Dry	NP	--
ERT-4I	823.49	13.42	NP	810.07	5.58	NP	817.91
ERT-4D	823.63	13.63	NP	810.00	15.70	NP	807.93
ERT-5	824.64 *	12.40	NP	812.24	15.28	NP	809.36
ERT-6	824.74 *	13.15	13.14	811.59	16.03	NP	808.71
ERT-7	823.96	14.55	NP	809.41	17.61	NP	806.35
ERT-8	824.69	15.50	NP	809.19	18.57	NP	806.12

Notes:

fbgs - feet below ground surface

famsl - feet above mean sea level

* - Elevation data from Conceptual Site

Model (Lockheed Martin, 2012).

NM - Not measured

NP - No product / LNAPL

Corrected based on assumed LNAPL density of 0.85 g/cm3

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Third Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-1 2/20/2014 Shallow ug/L	4009-1 5/28/2014 Shallow ug/L	4009-1 8/28/2014 Shallow ug/L	4009-2 2/20/2014 Shallow ug/L	4009-2 5/28/2014 Shallow ug/L	4009-2 8/28/2014 Shallow ug/L	4009-3 2/20/2014 Shallow ug/L	4009-3 5/28/2014 Shallow ug/L	4009-3 8/28/2014 Shallow ug/L	4009-4 2/20/2014 Intermediate ug/L	4009-4 5/28/2014 Intermediate ug/L	4009-4 8/28/2014 Intermediate ug/L	4009-5 2/20/2014 Intermediate ug/L	4009-5 5/28/2014 Intermediate ug/L	4009-5 8/28/2014 Intermediate ug/L	4009-6 2/20/2014 Shallow ug/L	4009-6 5/28/2014 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.6 J	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 UJ	1.1	1.3	0.9 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 J	1.0 UJ	2.7	2.3	2.6 J	6.3	6.6	7.5 J	1.0 U	0.4 J	1.0 UJ	2.7	3.0 J	1.3 J	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.3	1.1	1.1 J	1.0 U	1.0 U	1.0 UJ	2.2	1.8 J	1.0 UJ	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
2-Butanone (MEK)	50	1.3 J	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	1.5 J	10 U	10 UJ	10 U	50 U	10 UJ	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	25 U	5.0 UJ	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	25 U	5.0 UJ	5.0 U	5.0 U
Acetone	50*	10	4.2 J	12 J	7.2 J	3.5 J	9.9 J	10	4.6 J	12 J	12	3.4 J	8.0 J	11	50 U	11 J	8.5 J	10 U
Benzene	1	1.0 U	1.0 U	1.0 UJ	1.0 U	3.2	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	3.6 J	1.0 U	5.0 U	1.7 J	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.6	2.0	2.2 J	14	12	9.0 J	77	65	63 J	1.0 U	79	1.3 J	250 D	280	170 J	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	13 U	2.5 UJ	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	4.6 J	1.0 UJ	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	0.3 J	0.27 J
Styrene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Tetrachloroethene	5	1.4	0.4 J	1.7 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.6 J	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0	5.0 U	1.0 UJ	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Trichloroethene	5	1.4	1.1	1.7 J	2.9	2.7	2.3 J	26	15	12 J	1.0 U	1.5	1.0 UJ	21	19	12 J	0.5 J	0.61 J
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 UJ	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 UJ	6.9	1.3	5.1 J	11	13	33 J	1.0 U	1.0 U	1.0 UJ	39	41	14 J	1.0 U	1.0 U
Xylenes, Total		2.0 U	2 U	2.0 UJ	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 UJ	2.0 U	10 U	2.0 UJ	2.0 U	2.0 U
Total VOCs		15.7	8.15	17.6	34.8	26.3	29.8	132	105	130	13.5	84.3	13.5	327	349	210	9.29	0.88
Total VOCs (w/o Acteone or Methylene Chloride)		5.7	3.95	5.6	27.6	22.8	19.9	122	101	118	1.5	80.9	5.5	316	345	199	0.79	0.88

Notes
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated.
B - Analyte detected in the method blank and sample
E - Estimated value.
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits.
2-Sample DUP-02 is a duplicate sample from 4009-25D
3-Sample DUP-01 is a duplicate sample from 4009-29I
NA - not analyzed

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Third Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-6 8/28/2014 Shallow ug/L	4009-7 2/20/2014 Shallow ug/L	4009-7 5/28/2014 Shallow ug/L	4009-7 8/28/2014 Shallow ug/L	4009-8 2/20/2014 Intermediate ug/L	4009-8 5/28/2014 Intermediate ug/L	4009-8 8/28/2014 Intermediate ug/L	4009-9 2/20/2014 Shallow ug/L	4009-9 5/28/2014 Shallow ug/L	4009-9 8/28/2014 Shallow ug/L	4009-10 2/20/2014 Shallow ug/L	4009-10 5/28/2014 Shallow ug/L	4009-10 8/28/2014 Shallow ug/L	4009-11 2/20/2014 Deep ug/L	4009-11 5/28/2014 Deep ug/L	4009-11 8/28/2014 Deep ug/L	4009-11A 2/20/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	790 D	1000	2900 DJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.9 J	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 UJ	1.0 U	1.0 U	1.0 UJ	14	13 J	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloroethane	1	1.0 UJ	1.0 U	1.0 U	1.0 UJ	0.5 J	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethane	5	1.0 UJ	1.0 J	0.48 J	1.0 UJ	40	62	72 DJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethene	5	1.0 UJ	1.0 U	0.29 J	1.0 UJ	31	120	94 DJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,3-Trimethylbenzene		1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,4-Trichlorobenzene	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,4-Trimethylbenzne	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichlorobenzene	3	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethane	0.6	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloropropane	1	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3-Dichlorobenzene	3	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
1,4-Dichlorobenzene	3	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
2-Butanone (MEK)	50	10 UJ	10 U	1.4 J	10 UJ	10 U	200 U	200 UDJ	1.4 J	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U
2-Hexanone	50*	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	100 U	100 UDJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	100 U	100 UDJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U
Acetone	50*	9.8 J	5.3 J	7.1 J	14 J	9.6 J	200 U	200 UDJ	12	3.3 J	11 J	10	3.2 J	7.5 J	7.8 J	4.6 J	10 UJ	9.8 J
Benzene	1	1.0 UJ	1.1	1.0 U	0.41 J	0.67 J	20 U	20 UDJ	1.0 U	1.0 U	1.3 J	0.6 J	0.53 J	2.3 J	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromodichloromethane	50	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromoform	50*	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromomethane	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon disulfide		1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon tetrachloride	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Chlorobenzene	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroethane	5	1.0 UJ	1.0 U	0.3 J	1.0 UJ	2.2	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroform	7	1.0 UJ	1.0 U	1.0 U	1.0 UJ	0.6 J	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloromethane		1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	5	1.0 UJ	20	46	36 J	440 D	310	550 DJ	6.3	4.0	13 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Cyclohexane		1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Dibromochloromethane	50	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Dichlorodifluoromethane	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Isopropylbenzne (Cumene)	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Acetate		2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	50 U	50 UDJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U
Methyl Cyclohexane		1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Methylene Chloride	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	9.1 DJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Tert Butyl Ether	10	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Styrene	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Tetrachloroethene	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.3	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Toluene	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	2.0	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,2-Dichloroethene	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.1	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Trichloroethene	5	1.0 UJ	2.1	4.1	3.3 J	19	20 U	20 UDJ	0.5 J	0.66 J	0.67 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Trichlorofluoromethane	5	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1 U	20 U	20 UDJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Vinyl chloride	2	1.0 UJ	2.5	3.1	3.1 J	44	140	92 DJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Xylenes, Total		2.0 UJ	2.0 U	2.0 U	2.0 UJ	2.0 U	40 U	40 UDJ	1.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 UJ	2.0 U
Total VOCs		9.8	32	62.8	56.8	1394	1645	3717	20.2	7.96	26	12.6	3.73	9.8	7.8	4.6	1.9	10 J
Total VOCs (w/o Acteone or Methylene Chloride)		0	26.7	55.7	42.8	1384	1645	3717	8.24	4.66	15	2.6	0.53	2.3	0	0	1.9	0

Notes
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated.
B - Analyte detected in the method blank and sample
E - Estimated value.
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits.
2-Sample DUP-02 is a duplicate sample from 4009-25D
3-Sample DUP-01 is a duplicate sample from 4009-29I
NA - not analyzed

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Third Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-11A 5/28/2014 Intermediate ug/L	4009-11A 8/28/2014 Intermediate ug/L	4009-12 2/20/2014 Deep ug/L	4009-12 5/28/2014 Deep ug/L	4009-12 8/28/2014 Deep ug/L	4009-12A 2/20/2014 Intermediate ug/L	4009-12A 5/28/2014 Intermediate ug/L	4009-12A 8/28/2014 Intermediate ug/L	4009-13 2/20/2014 Deep ug/L	4009-13 5/28/2014 Deep ug/L	4009-13 8/28/2014 Deep ug/L	4009-13A 2/20/2014 Shallow ug/L	4009-13A 5/28/2014 Shallow ug/L	4009-13A 8/28/2014 Shallow ug/L	4009-14 2/20/2014 Deep ug/L	4009-14 5/28/2014 Deep ug/L	4009-14 8/28/2014 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 UJ	32	43	1.0 U	34	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 UJ	1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 UJ	4.0	6.5	1.0 U	4.3	7.8	4.3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 UJ	3.4	6.1	1.0 U	3.8	1.3	0.6 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Acetone	50*	4.1 J	10 J	5.8 J	3.8 J	7.0 J	9.9 J	3.9 J	10 U	8.4 J	3.8 J	10 UJ	8.4 J	10 U	11 J	6.3 J	4.3 J	11
Benzene	1	1.0 U	1.0 UJ	1.0 U	1.5	1.6	1.0 U	1.0 U	0.57 J	1.0 U	0.42 J	4.8 J	1.0 U	0.58 J	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	7.5	7.0	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 UJ	13	9.5	8.5	15	18	15	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 UJ	1.0 U	0.8 J	0.74 J	1.0 U	0.55 J	0.53 J	1.0 U	3.7	2.7 J	1.0 U	1.0 U	1.0 UJ	1.0 U	0.91 J	1.0
trans-1,2-Dichloroethene	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 UJ	17	18	1.0 U	19	2.2	1.0	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 UJ	6.1	3.7	0.9 J	6.4	1.0 U	1.7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Total VOCs		4.1	10	81.3	93.9	18.7	92.4	41.3	30.7	8.4	7.92	7.5	8.4	0.58	11	6.3	5.21	12
Total VOCs (w/o Acteone or Methylene Chloride)		0	0	75.5	90.1	11.7	82.5	37.4	30.7	0	4.12	7.5	0	0.58	11	0	0.91	1.0

Notes
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated.
B - Analyte detected in the method blank and sample
E - Estimated value.
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits.
2-Sample DUP-02 is a duplicate sample from 4009-25D
3-Sample DUP-01 is a duplicate sample from 4009-29I
NA - not analyzed

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Third Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-15 2/20/2014 Deep ug/L	4009-15 5/28/2014 Deep ug/L	4009-15 8/28/2014 Deep ug/L	4009-16 2/20/2014 Deep ug/L	4009-16 5/28/2014 Deep ug/L	4009-16 8/28/2014 Deep ug/L	4009-16A 2/20/2014 Shallow ug/L	4009-16A 5/28/2014 Shallow ug/L	4009-16A 8/28/2014 Shallow ug/L	4009-22 12/3/2013 Deep ug/L	4009-22 2/20/2014 Deep ug/L	4009-22 5/28/2014 Deep ug/L	4009-22 8/28/2014 Deep ug/L	4009-23S 2/20/2014 Shallow ug/L	4009-23S 5/28/2014 Shallow ug/L	4009-23S 8/28/2014 Shallow ug/L	4009-23D 2/20/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	130 D
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	24
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethane	5	0.5 J	0.53 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.2	4.4	2.5 J	250 D
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	31
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	1.8	0.38 J	0.44 J	10 UD
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	8.6	2.0	4.2 J	10 UD
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.4 J
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.4	1.2	4.0 J	10 UD
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
2-Butanone (MEK)	50	10 U	1.3 J	10 U	10 U	10 U	10 U	1.6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Acetone	50*	7.5 J	5.1 J	7.2 J	5.9 J	3.5 J	7.1 J	12	4.0 J	7.6 J	3.1 J	12	10 U	11	6.1 J	10 U	7.2 J	8.3 J
Benzene	1	1.0 U	1.0 U	0.5 J	1.0 U	1.0 U	8.2	1.0 U	1.9	7.2	0.7 J	0.7 J	0.92 J	0.98 J	1.8	1.8	1.8 J	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 J	11
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2	2.2	1.9 J	580 D
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.8 J	0.61 J	0.85 J	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.83 J	1.0 UJ	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.3	3.6	5.8 J	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	1.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.7 J	0.5 J	1.0 UJ	0.3 J
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Toluene	5	1.0 U	0.56 J	0.61 J	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U	0.7 J	0.6 J	1.1	0.83 J	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.4	2.8	1.8 J	2.3
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.6	1.6	1.3 J	8.7
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 J	1.1	1.1 J	630 D
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U
Total VOCs		8.02	7.49	8.31	5.9	3.5	16.8	13.6	5.9	14.8	4.4	13.2	2.02	12.81	39.8	23.1	34.1	1676
Total VOCs (w/o Acteone or Methylene Chloride)		0.52	2.39	1.11	0	0	9.7	1.6	1.9	7.2	1.34	1.24	2.02	1.81	33.7	23.1	26.9	1667

Notes
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated.
B - Analyte detected in the method blank and sample
E - Estimated value.
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits.
2-Sample DUP-02 is a duplicate sample from 4009-25D
3-Sample DUP-01 is a duplicate sample from 4009-29I
NA - not analyzed

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Third Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-23D 5/28/2014 Intermediate ug/L	4009-23D 8/28/2014 Intermediate ug/L	4009-24 2/20/2014 Shallow ug/L	4009-24 5/28/2014 Shallow ug/L	4009-24 8/28/2014 Shallow ug/L	4009-25S 2/20/2014 Shallow ug/L	4009-25S 5/28/2014 Shallow ug/L	4009-25S 8/28/2014 Shallow ug/L	4009-25D 2/20/2014 Shallow ug/L	DUP-02 ² 2/20/2014 Shallow ug/L	4009-25D 5/28/2014 Shallow ug/L	DUP-02 ² 5/28/2014 Shallow ug/L	4009-25D 8/28/2014 Shallow ug/L	DUP-02 ² 8/28/2014 Shallow ug/L	4009-26 2/20/2014 Intermediate ug/L	4009-26 5/28/2014 Intermediate ug/L	4009-26 8/28/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	720	140 DJ	1.0 U	1.0 U	1.0 UJ	2600 D	3300	9900 DJ	1900 D	1800 D	3300	3200	820 DJ	810 DJ	98	370	150 DJ
1,1,2,2-Tetrachloroethane	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
1,1,2-Trichloro-1,2,2-Trifluoroethane		18	12 J	1.0 U	1.0 U	1.0 UJ	31	40 U	40 UDJ	32	31	22 J	16 J	19 DJ	20 DJ	7.7	13	6.0 DJ
1,1,2-Trichloroethane	1	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
1,1-Dichloroethane	5	420	220 DJ	1.0 U	1.0 U	1.0 UJ	87	140	120 DJ	74	79	120	110	53 DJ	51 DJ	27	39	16 DJ
1,1-Dichloroethene	5	78	23 J	1.0 U	1.0 U	1.0 UJ	110 D	410	650 DJ	120 D	50	330	330	57 DJ	44 DJ	6.0	46	9.9 DJ
1,2,3-Trimethylbenzene		10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	40 UD	40 U	40 UDJ	20 UD	1.0 U	20 U	25 U	20 UDJ	10 UDJ	2.0 UD	8.0 U	2.0 UDJ
1,2,4-Trichlorobenzene	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
1,2,4-Trimethylbenzne	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	40 UD	40 U	40 UDJ	20 UD	1.0 U	20 U	25 U	20 UDJ	10 UDJ	2.0 UD	8.0 U	2.0 UDJ
1,2-Dibromo-3-Chloropropane	0.04	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
1,2-Dibromoethane (Ethylene Dibromide)	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
1,2-Dichlorobenzene	3	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
1,2-Dichloroethane	0.6	10 U	0.39 J	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
1,2-Dichloropropane	1	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
1,3,5-Trimethylbenzene (Mesitylene)	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	40 UD	40 U	40 UDJ	20 UD	1.0 U	20 U	25 U	20 UDJ	10 UDJ	2.0 UD	8.0 U	2.0 UDJ
1,3-Dichlorobenzene	3	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
1,4-Dichlorobenzene	3	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
2-Butanone (MEK)	50	100 U	10 UJ	1.4 J	10 U	10 UJ	10 U	400 U	400 UDJ	10 U	10 U	200 U	250 U	200 UDJ	100 UDJ	10 U	80 U	20 UDJ
2-Hexanone	50*	50 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	200 U	200 UDJ	5.0 U	5.0 U	100 U	130 U	100 UDJ	50 UDJ	5.0 U	40 U	10 UDJ
4-Methyl-2-pentanone (MIBK)		50 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	200 U	200 UDJ	5.0 U	5.0 U	100 U	130 U	100 UDJ	50 UDJ	5.0 U	40 U	10 UDJ
Acetone	50*	100 U	9.8 J	9.3 J	4.2 J	10 UJ	10 U	400 U	400 UDJ	6.0 J	5.6 J	200 U	250 U	200 UDJ	100 UDJ	10	80 U	20 UDJ
Benzene	1	10 U	0.62 J	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	0.81 J	8.0 U	2.0 UDJ
Bromodichloromethane	50	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Bromoform	50*	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Bromomethane	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Carbon disulfide		10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Carbon tetrachloride	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Chlorobenzene	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Chloroethane	5	11	8.2 J	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Chloroform	7	10 U	1.0 UJ	1.0 U	1.0 U	0.44 J	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Chloromethane		10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
cis-1,2-Dichloroethene	5	450	460 DJ	1.0 U	1.0 U	2.2 J	180 D	210	490 DJ	76	80	110	140	100 DJ	94 DJ	120 D	190	96 DJ
cis-1,3-Dichloropropene	0.4	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Cyclohexane		10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Dibromochloromethane	50	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Dichlorodifluoromethane	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	3.9	5.8 J	5.0 DJ
Ethylbenzene	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Isopropylbenzne (Cumene)	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Methyl Acetate		25 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	100 U	100 UDJ	2.5 U	2.5 U	50 U	63 U	50 UDJ	25 UDJ	2.5 U	20 U	5.0 UDJ
Methyl Cyclohexane		10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Methylene Chloride	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.4	2.0 UDJ
Methyl Tert Butyl Ether	10	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Styrene	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Tetrachloroethene	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.1	8.0 U	0.97 DJ
Toluene	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
trans-1,2-Dichloroethene	5	10 U	1.3 J	1.0 U	1.0 U	1.0 UJ	2.9	40 U	40 UDJ	2.0	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
trans-1,3-Dichloropropene	0.4	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Trichloroethene	5	8.3 J	6.1 J	1.0 U	1.0 U	1.0 UJ	32	40 U	2900 DJ	16	15	10 J	25 U	21 DJ	16 DJ	45	71	47 DJ
Trichlorofluoromethane	5	10 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	40 U	40 UDJ	1.0 U	1.0 U	20 U	25 U	20 UDJ	10 UDJ	1.0 U	8.0 U	2.0 UDJ
Vinyl chloride	2	440	530 DJ	1.0 U	1.0 U	1.0 UJ	3.7	40 U	40 UDJ	1.4	1.3	20 U	25 U	20 UDJ	12 DJ	12	21	13 DJ
Xylenes, Total		20 U	2.0 UJ	2.0 U	2.0 U	2.0 UJ	2.0 U	80 U	80 UDJ	2.0 U	2.0 U	40 U	50 U	40 UDJ	20 UDJ	2.0 U	16.0 U	4.0 UDJ
Total VOCs		2145	1411	10.7	4.2	2.64	3047	4060	14060	2227	2062	3892	3821	1070	1047	332	764	344
Total VOCs (w/o Acteone or Methylene Chloride)		2145	1402	1.4	0	2.64	3047	4060	14060	2221	2056	3892	3821	1070	1047	322	756	344

Notes
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated.
B - Analyte detected in the method blank and sample
E - Estimated value.
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits.
2-Sample DUP-02 is a duplicate sample from 4009-25D
3-Sample DUP-01 is a duplicate sample from 4009-29I
NA - not analyzed

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Third Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-27S 2/20/2014 Intermediate ug/L	4009-27S 5/28/2014 Intermediate ug/L	4009-27S 8/28/2014 Intermediate ug/L	4009-27I 2/20/2014 Intermediate ug/L	4009-27I 5/28/2014 Intermediate ug/L	4009-27I 8/28/2014 Intermediate ug/L	4009-27D 2/20/2014 Deep ug/L	4009-27D 5/28/2014 Deep ug/L	4009-27D 8/28/2014 Deep ug/L	4009-28 2/20/2014 Deep ug/L	4009-28 5/28/2014 Deep ug/L	4009-28 8/28/2014 Deep ug/L	4009-29S 2/20/2014 Intermediate ug/L	4009-29S 5/28/2014 Intermediate ug/L	4009-29S 8/28/2014 Intermediate ug/L	4009-29I 2/20/2014 Intermediate ug/L	DUP_01 ³ 2/20/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	54	61	65 J	1.0 U	1.0 U	1.3 J	1.0 U	1.0 U	1.0 UJ	1.3	2.7	1.0 U	710 D	650	1000 DJ	1700 D	1500 D
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		2.8	3.4	2.3 J	1.0 U	0.37 J	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	12	10 U	7.1 DJ	21	20
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	0.86 J	0.86 J
1,1-Dichloroethane	5	1.9	2.2	2.2 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	130 D	35	46 D	83	86
1,1-Dichloroethene	5	5.7	8.9	5.6 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	0.3 J	1.0 U	92	89	62 D	150 D	99
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	0.9 J	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	0.41 J	0.40 J
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	100 U	100 UD	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 UD	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 UD	5.0 U	5.0 U
Acetone	50*	9.9 J	3.8 J	8.1 UJ	5.8 J	10 U	7.9 J	9.8 J	4.8 J	8.0 J	7.9 J	3.7 J	6.8 J	6.0 J	100 U	100 UD	11	13
Benzene	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.71 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	0.59 J	0.60 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.6	1.7
Chloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	5.0	4.6
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.69 J	10 U	10 UD	1.1	1.2
Chloromethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	18	20	19 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	260 D	340	410 D	400 D	350 D
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.3	10 U	10 UD	1.2	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	25 U	25 UD	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.95 J	10 U	10 UD	2.1	2.0
Toluene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.5	10 U	10 UD	3.4	1.5
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	1.0 U	1.0 U
Trichloroethene	5	25	28	24 J	1.4	1.1	1.2 J	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	300 D	10 U	27 D	450 D	410 D
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	0.94 J	1.1
Vinyl chloride	2	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	43	15	42 D	85	75
Xylenes, Total		2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	20 U	20 UD	2.0 U	2.0 U
Total VOCs		117	128	126	7.2	1.47	11.11	9.8	4.8	8.48	9.2	6.7	6.8	1560	1129	1594	2917	2567
Total VOCs (w/o Acteone or Methylene Chloride)		107	124	118	1.4	1.47	3.21	0	0	0.48	1.3	3.01	0	1554	1129	1594	2906	2554

Notes
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated.
B - Analyte detected in the method blank and sample
E - Estimated value.
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits.
2-Sample DUP-02 is a duplicate sample from 4009-25D
3-Sample DUP-01 is a duplicate sample from 4009-29I
NA - not analyzed

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Third Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-29I 5/28/2014 Intermediate ug/L	DUP_01 ³ 5/28/2014 Intermediate ug/L	4009-29I 8/28/2014 Intermediate ug/L	DUP_01 ³ 8/28/2014 Intermediate ug/L	4009-29D 2/20/2014 Deep ug/L	4009-29D 5/28/2014 Deep ug/L	4009-29D 8/28/2014 Deep ug/L	ERT-1I 2/20/2014 Intermediate ug/L	ERT-1D 2/20/2014 Deep ug/L	ERT-3S 2/20/2014 Shallow ug/L	ERT-3I 2/20/2014 Intermediate ug/L	ERT-3D 2/20/2014 Deep ug/L	ERT-4S 2/20/2014 Shallow ug/L	ERT-4I 2/20/2014 Intermediate ug/L	ERT-4D 2/20/2014 Deep ug/L	ERT-7 2/20/2014 Intermediate ug/L	ERT-8 2/20/2014 Intermediate ug/L	ERT-4I 2/20/2014 Intermediate ug/L	ERT-4I ** 8/28/2014 Intermediate ug/L
1,1,1-Trichloroethane	5	1600	1500	130 DJ	130 DJ	1.0 U	80	1200 DJ	1.0 U	1.0 U	5100 D	2800 D	16	310000 D	4800	4100	4.1	1.0 U	4800	3600
1,1,2,2-Tetrachloroethane	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	49	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.1	14	1.0 U	1.0 U	3.0	1.6	1.0 U	96	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,1,2-Trichloroethane	1	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	0.65 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10000 UD	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,1-Dichloroethane	5	96	89	21 DJ	20 DJ	1.1	16	150 DJ	4.1	1.0 U	570 D	150 D	1100 E	290	150	1500	76	44	150	100
1,1-Dichloroethene	5	230	230	6.4 DJ	5.7 DJ	1.0 U	12	130 DJ	0.99 J	1.0 U	720 D	160 D	8.3	10000 UD	310	230	1.0 U	1.0 U	310	160
1,2,3-Trimethylbenzene		25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	30	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,2,4-Trichlorobenzene	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	26	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,2,4-Trimethylbenzne	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	24	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,2-Dibromo-3-Chloropropane	0.04	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,2-Dibromoethane (Ethylene Dibromide)	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,2-Dichlorobenzene	3	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	42	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,2-Dichloroethane	0.6	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	0.72 J	1.0 U	1.0 U	1.2	1.0 U	2.3	64	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,2-Dichloropropane	1	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
1,3,5-Trimethylbenzene (Mesitylene)	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 J	80 U	50 U	1.0 U	1.0 U	800 U	80 U
1,3-Dichlorobenzene	3	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	400 U	80 U
1,4-Dichlorobenzene	3	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.8	80 U	50 U	1.0 U	1.0 U	400 U	80 U
2-Butanone (MEK)	50	250 U	250 U	20 UDJ	20 UDJ	10 U	10 U	10 U	10 U	10 U	10 U	3.1 J	1.4 J	50 U	800 U	500 U	10 U	10 U	80 U	800 U
2-Hexanone	50*	130 U	130 U	10 UDJ	10 UDJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	400 U	250 U	5.0 U	5.0 U	80 U	400 U
4-Methyl-2-pentanone (MIBK)		130 U	130 U	10 UDJ	10 UDJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	400 U	250 U	5.0 U	5.0 U	80 U	400 U
Acetone	50*	250 U	250 U	12 DJ	14 DJ	6.9 J	10 U	10 U	4.8 J	8.1 J	5.8 J	8.8 J	7.1 J	50 U	800 U	500 U	7.5 J	8.9 J	800 U	800 U
Benzene	1	25 U	25 U	41 DJ	41 DJ	1.0 U	1.0 U	0.72 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	14	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Bromodichloromethane	50	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Bromoform	50*	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Bromomethane	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Carbon disulfide		25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Carbon tetrachloride	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Chlorobenzene	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Chloroethane	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.4	8.8 DJ	1.0 U	1.0 U	76	3.3	21	5.0 U	80 U	50 U	1.0 U	28	80 U	80 U
Chloroform	7	25 U	25 U	1.1 DJ	0.95 DJ	1.0 U	1.0 U	0.83 J	1.0 U	1.0 U	2.4	0.82 J	1.0 U	120	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Chloromethane		25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
cis-1,2-Dichloroethene	5	400	380	53 DJ	50 DJ	1.4	25	400 DJ	990 D	7.7	23	3.9	1.0 U	110	80 U	100	8.5	2.5	80 U	80 U
cis-1,3-Dichloropropene	0.4	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Cyclohexane		25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Dibromochloromethane	50	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Dichlorodifluoromethane	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	NA
Ethylbenzene	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	23	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Isopropylbenzne (Cumene)	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Methyl Acetate		63 U	63 U	5.0 UDJ	5.0 UDJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	13 U	200 U	130 U	2.5 U	2.5 U	200 U	200 U
Methyl Cyclohexane		25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10000 UD	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Methylene Chloride	5	25 U	25 U	1.2 DJ	1.1 DJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.6	0.77 J	0.61 J	10000 UD	80 U	50 U	2.6	1.0 U	80 U	80 U
Methyl Tert Butyl Ether	10	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Styrene	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Tetrachloroethene	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0	1.0 U	1.0 U	2.3	1.3	1.0 U	120	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Toluene	5	25 U	25 U	3.7 DJ	3.6 DJ	1.0 U	1.0 U	1.0 U	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	460	80 U	50 U	0.54 J	0.77 J	80 U	80 U
trans-1,2-Dichloroethene	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.8	1.5	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	81 U
trans-1,3-Dichloropropene	0.4	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	82 U
Trichloroethene	5	460	430	34 DJ	33 DJ	1.8	17	400 DJ	1.9	1.6	28	8.3	1.0 U	510000 D	80 U	80	7.9	0.53 J	80 U	80 U
Trichlorofluoromethane	5	25 U	25 U	2.0 UDJ	2.0 UDJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	80 U	50 U	1.0 U	1.0 U	80 U	80 U
Vinyl chloride	2	85	78	6.6 DJ	6.3 DJ	4.7	12	170 DJ	11	1.0 U	1.9	1.0 U	2.1	5.0 U	80 U	50 U	1.0 U	2.5	80 U	80 U
Xylenes, Total		50 U	50 U	4.0 UDJ	4.0 UDJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	110	160 U	100 U	2.0 U	2.0 U	160 U	160 U
Total VOCs		2871	2707	310	306	15.9	165	2480	1015	17	6542	3144	1159	821601	5260	6010	107	87	5260	3860
Total VOCs (w/o Acteone or Methylene Chloride)		2871	2707	297	291	9.0	165	2480	1010	9.30	6528	3134	1151	821601	5260	6010	97.04	78.3	5260	3860

Notes
- Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated.
B - Analyte detected in the method blank and sample
E - Estimated value.
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits.
2-Sample DUP-02 is a duplicate sample from 4009-25D
3-Sample DUP-01 is a duplicate sample from 4009-29I
NA - not analyzed

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Third Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	ERT-4I ** 8/28/2014 Intermediate ug/L	1-1A(EFF) 2/21/2014 ug/L	1-1A(INF) 2/21/2014 Deep ug/L	1-2A(INF) 8/28/2014 ug/L	1-2A(EFF) 8/28/2014 ug/L	1-3(INF) 8/28/2014 ug/L	1-3(EFF) 8/28/2014 ug/L	TB-01 8/28/2014 ug/L	FB-01 8/28/2014 ug/L
1,1,1-Trichloroethane	5	2700	3.9	120 D	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		50 U	1.0 U	2.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	78	2.6	17	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	130	1.0 U	9.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8.4 J
2-Hexanone	50*	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	50 U	1.0 U	0.5 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	50 U	9.6	39	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		130 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	50 U	1.5	1.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	50 U	3.8	43	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	50 U	1.0 U	4.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		2908	21.4	237	0	0	0	0	0	8.4
Total VOCs (w/o Acteone or Methylene Chloride)		2908	21.4	237	0	0	0	0	0	0

Notes
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated.
B - Analyte detected in the method blank and sample
E - Estimated value.
D- Result of diluted sample shown
* - Laboratory control sample / duplicate exceeds control limits.
2-Sample DUP-02 is a duplicate sample from 4009-25D
3-Sample DUP-01 is a duplicate sample from 4009-29I
NA - not analyzed

Table 2-3 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard ug/L	Well 1-2A Influent 7/22/2014 ug/L	Well 1-2A Influent 7/30/2014 ug/L	Well 1-2A Influent 8/18/2014 ug/L	Well 1-2A Influent 8/28/2014 ug/L	Well 1-2A Influent 9/29/2014 ug/L	Well 1-2A Influent 9/30/2014 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
1,2,4-Trimethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Carbon disulfide		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Isopropylbenzene (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA
Methyl Acetate		NA	NA	NA	2.5 U	NA U	NA
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichlorofluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0

Notes

NA - Not Analyzed

U - Compound was not detected at the indicated concentration

Table 2-3 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard ug/L	Well 1-3 Influent 7/22/2014 ug/L	Well 1-3 Influent 7/30/2014 ug/L	Well 1-3 Influent 8/18/2014 ug/L	Well 1-3 Influent 8/28/2014 ug/L	Well 1-3 Influent 9/29/2014 ug/L	Well 1-3 Influent 9/30/2014 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
1,2,4-Trimethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA
Acetone	50*	NN	10 U	NA	10 U	10.0 U	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Carbon disulfide		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Isopropylbenzene (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA
Methyl Acetate		NA	NA	NA	2.5 U	NA U	NA
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichlorofluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0

Notes

NA - Not Analyzed

U - Compound was not detected at the indicated concentration



Appendix A

Analytical Reporting Forms

ANALYTICAL REPORT

Job Number: 480-66431-1

Job Description: NYSDEC-Standby VESTAL

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
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Attention: Jeremy Wyckoff



Approved for release.
Judy L. Stone
Senior Project Manager
10/15/2014 11:31 AM

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10/15/2014
Revision: 1

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Job Narrative
480-66431-1

Revision (1)

The report was revised at the request of the client to expand the reported analyte list to match the list reported in job 480-66426 under another project at the same site.

Receipt

The samples were received on 8/30/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

Except:

The sample IDs as listed on the chain of custody were revised by the client. The field samplers had mislabeled them.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 202028 recovered outside acceptance criteria, low biased, for 4-Methyl-2-pentanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for batch 202028 recovered outside control limits for the following analytes: 4-Methyl-2-pentanone, Dichlorodifluoromethane and Acrolein. These were not requested spike compounds; therefore, the data have been qualified and reported. (LCS 480-202028/4).

Method(s) 8260C: Reanalysis of the following sample was performed outside of the analytical holding time due to several instrument issues that were unavoidable: ERT-4I-82820141 (480-66431-1).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: ERT-4I-82820141 (480-66431-1), ERT-4I-82820142 (480-66431-2). . Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-66431-1	ERT-4I-82820141	Water	08/28/2014 1410	08/30/2014 0900
480-66431-2	ERT-4I-82820142	Water	08/28/2014 1416	08/30/2014 0900

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-66431-1	ERT-4I-82820141					
1,1,1-Trichloroethane		3900		100	ug/L	8260C
1,1-Dichloroethane		100		100	ug/L	8260C
1,1-Dichloroethene		170		100	ug/L	8260C
480-66431-2	ERT-4I-82820142					
1,1,1-Trichloroethane		2700		50	ug/L	8260C
1,1-Dichloroethane		78		50	ug/L	8260C
1,1-Dichloroethene		130		50	ug/L	8260C

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Method	Analyst	Analyst ID
SW846 8260C	Boldt, Erik D	EDB
SW846 8260C	Goliszek, Gregory T	GTG

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Client Sample ID: ERT-4I-82820141

Lab Sample ID: 480-66431-1

Date Sampled: 08/28/2014 1410

Client Matrix: Water

Date Received: 08/30/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-202028	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T5313.D
Dilution:	80			Initial Weight/Volume:	5 mL
Analysis Date:	09/12/2014 0611	Run Type:	RA	Final Weight/Volume:	5 mL
Prep Date:	09/12/2014 0611				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	3600	H	66	80
1,1,2,2-Tetrachloroethane	80	U H	17	80
1,1,2-Trichloro-1,2,2-trifluoroethane	80	U H	25	80
1,1,2-Trichloroethane	80	U H	18	80
1,1-Dichloroethane	100	H	30	80
1,1-Dichloroethene	160	H	23	80
1,2,3-Trimethylbenzene	80	U H	21	80
1,2,4-Trichlorobenzene	80	U H	33	80
1,2,4-Trimethylbenzene	80	U H	60	80
1,2-Dibromo-3-Chloropropane	80	U H	31	80
1,2-Dibromoethane	80	U H	58	80
1,2-Dichlorobenzene	80	U H	63	80
1,2-Dichloroethane	80	U H	17	80
1,2-Dichloropropane	80	U H	58	80
1,3,5-Trimethylbenzene	80	U H	62	80
1,3-Dichlorobenzene	80	U H	62	80
1,4-Dichlorobenzene	80	U H	67	80
2-Butanone (MEK)	800	U H	110	800
2-Hexanone	400	U H	99	400
4-Methyl-2-pentanone (MIBK)	400	U H *	170	400
Acetone	800	U H	240	800
Benzene	80	U H	33	80
Bromodichloromethane	80	U H	31	80
Bromoform	80	U H	21	80
Bromomethane	80	U H	55	80
Carbon disulfide	80	U H	15	80
Carbon tetrachloride	80	U H	22	80
Chlorobenzene	80	U H	60	80
Chloroethane	80	U H	26	80
Chloroform	80	U H	27	80
Chloromethane	80	U H	28	80
cis-1,2-Dichloroethene	80	U H	65	80
cis-1,3-Dichloropropene	80	U H	29	80
Cyclohexane	80	U H	14	80
Dibromochloromethane	80	U H	26	80
Ethylbenzene	80	U H	59	80
Isopropylbenzene	80	U H	63	80
m,p-Xylene	160	U H	53	160
Methyl acetate	200	U H	40	200
Methyl tert-butyl ether	80	U H	13	80
Methylcyclohexane	80	U H	13	80
Methylene Chloride	80	U H	35	80
o-Xylene	80	U H	61	80
Styrene	80	U H	58	80
Tetrachloroethene	80	U H	29	80
Toluene	80	U H	41	80

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Client Sample ID: ERT-4I-82820141

Lab Sample ID: 480-66431-1

Date Sampled: 08/28/2014 1410

Client Matrix: Water

Date Received: 08/30/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-202028	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T5313.D
Dilution:	80			Initial Weight/Volume:	5 mL
Analysis Date:	09/12/2014 0611	Run Type:	RA	Final Weight/Volume:	5 mL
Prep Date:	09/12/2014 0611				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,2-Dichloroethene	80	U H	72	80
trans-1,3-Dichloropropene	80	U H	30	80
Trichloroethene	80	U H	37	80
Trichlorofluoromethane	80	U H	70	80
Vinyl chloride	80	U H	72	80
Xylenes, Total	160	U H	53	160

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	85		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	96		60 - 140
Toluene-d8 (Surr)	102		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Client Sample ID: ERT-4I-82820141

Lab Sample ID: 480-66431-1

Date Sampled: 08/28/2014 1410

Client Matrix: Water

Date Received: 08/30/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-201883	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T5291.D
Dilution:	100			Initial Weight/Volume:	5 mL
Analysis Date:	09/11/2014 2033			Final Weight/Volume:	5 mL
Prep Date:	09/11/2014 2033				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	3900		82	100
1,1,2,2-Tetrachloroethane	100	U	21	100
1,1,2-Trichloro-1,2,2-trifluoroethane	100	U	31	100
1,1,2-Trichloroethane	100	U	23	100
1,1-Dichloroethane	100		38	100
1,1-Dichloroethene	170		29	100
1,2,3-Trimethylbenzene	100	U	26	100
1,2,4-Trichlorobenzene	100	U	41	100
1,2,4-Trimethylbenzene	100	U	75	100
1,2-Dibromo-3-Chloropropane	100	U	39	100
1,2-Dibromoethane	100	U	73	100
1,2-Dichlorobenzene	100	U	79	100
1,2-Dichloroethane	100	U	21	100
1,2-Dichloropropane	100	U	72	100
1,3,5-Trimethylbenzene	100	U	77	100
1,3-Dichlorobenzene	100	U	78	100
1,4-Dichlorobenzene	100	U	84	100
2-Butanone (MEK)	1000	U	130	1000
2-Hexanone	500	U	120	500
4-Methyl-2-pentanone (MIBK)	500	U	210	500
Acetone	1000	U	300	1000
Benzene	100	U	41	100
Bromodichloromethane	100	U	39	100
Bromoform	100	U	26	100
Bromomethane	100	U	69	100
Carbon disulfide	100	U	19	100
Carbon tetrachloride	100	U	27	100
Chlorobenzene	100	U	75	100
Chloroethane	100	U	32	100
Chloroform	100	U	34	100
Chloromethane	100	U	35	100
cis-1,2-Dichloroethene	100	U	81	100
cis-1,3-Dichloropropene	100	U	36	100
Cyclohexane	100	U	18	100
Dibromochloromethane	100	U	32	100
Ethylbenzene	100	U	74	100
Isopropylbenzene	100	U	79	100
m,p-Xylene	200	U	66	200
Methyl acetate	250	U	50	250
Methyl tert-butyl ether	100	U	16	100
Methylcyclohexane	100	U	16	100
Methylene Chloride	100	U	44	100
o-Xylene	100	U	76	100
Styrene	100	U	73	100
Tetrachloroethene	100	U	36	100
Toluene	100	U	51	100

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Client Sample ID: ERT-4I-82820141

Lab Sample ID: 480-66431-1

Date Sampled: 08/28/2014 1410

Client Matrix: Water

Date Received: 08/30/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-201883	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T5291.D
Dilution:	100			Initial Weight/Volume:	5 mL
Analysis Date:	09/11/2014 2033			Final Weight/Volume:	5 mL
Prep Date:	09/11/2014 2033				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,2-Dichloroethene	100	U	90	100
trans-1,3-Dichloropropene	100	U	37	100
Trichloroethene	100	U	46	100
Trichlorofluoromethane	100	U	88	100
Vinyl chloride	100	U	90	100
Xylenes, Total	200	U	66	200

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	98		60 - 140
Toluene-d8 (Surr)	93		71 - 126

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Client Sample ID: ERT-4I-82820142

Lab Sample ID: 480-66431-2

Date Sampled: 08/28/2014 1416

Client Matrix: Water

Date Received: 08/30/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-201883	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T5292.D
Dilution:	50			Initial Weight/Volume:	5 mL
Analysis Date:	09/11/2014 2057			Final Weight/Volume:	5 mL
Prep Date:	09/11/2014 2057				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	2700		41	50
1,1,2,2-Tetrachloroethane	50	U	11	50
1,1,2-Trichloro-1,2,2-trifluoroethane	50	U	16	50
1,1,2-Trichloroethane	50	U	12	50
1,1-Dichloroethane	78		19	50
1,1-Dichloroethene	130		15	50
1,2,3-Trimethylbenzene	50	U	13	50
1,2,4-Trichlorobenzene	50	U	21	50
1,2,4-Trimethylbenzene	50	U	38	50
1,2-Dibromo-3-Chloropropane	50	U	20	50
1,2-Dibromoethane	50	U	37	50
1,2-Dichlorobenzene	50	U	40	50
1,2-Dichloroethane	50	U	11	50
1,2-Dichloropropane	50	U	36	50
1,3,5-Trimethylbenzene	50	U	39	50
1,3-Dichlorobenzene	50	U	39	50
1,4-Dichlorobenzene	50	U	42	50
2-Butanone (MEK)	500	U	66	500
2-Hexanone	250	U	62	250
4-Methyl-2-pentanone (MIBK)	250	U	110	250
Acetone	500	U	150	500
Benzene	50	U	21	50
Bromodichloromethane	50	U	20	50
Bromoform	50	U	13	50
Bromomethane	50	U	35	50
Carbon disulfide	50	U	9.5	50
Carbon tetrachloride	50	U	14	50
Chlorobenzene	50	U	38	50
Chloroethane	50	U	16	50
Chloroform	50	U	17	50
Chloromethane	50	U	18	50
cis-1,2-Dichloroethene	50	U	41	50
cis-1,3-Dichloropropene	50	U	18	50
Cyclohexane	50	U	9.0	50
Dibromochloromethane	50	U	16	50
Ethylbenzene	50	U	37	50
Isopropylbenzene	50	U	40	50
m,p-Xylene	100	U	33	100
Methyl acetate	130	U	25	130
Methyl tert-butyl ether	50	U	8.0	50
Methylcyclohexane	50	U	8.0	50
Methylene Chloride	50	U	22	50
o-Xylene	50	U	38	50
Styrene	50	U	37	50
Tetrachloroethene	50	U	18	50
Toluene	50	U	26	50

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Client Sample ID: ERT-4I-82820142

Lab Sample ID: 480-66431-2

Date Sampled: 08/28/2014 1416

Client Matrix: Water

Date Received: 08/30/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-201883	Instrument ID:	HP5975T
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	T5292.D
Dilution:	50			Initial Weight/Volume:	5 mL
Analysis Date:	09/11/2014 2057			Final Weight/Volume:	5 mL
Prep Date:	09/11/2014 2057				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,2-Dichloroethene	50	U	45	50
trans-1,3-Dichloropropene	50	U	19	50
Trichloroethene	50	U	23	50
Trichlorofluoromethane	50	U	44	50
Vinyl chloride	50	U	45	50
Xylenes, Total	100	U	33	100

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	95		60 - 140
Toluene-d8 (Surr)	88		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Surrogate Recovery Report**8260C Volatile Organic Compounds by GC/MS****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-66431-1	ERT-4I-82820141	98	86	93	92
480-66431-1 RA	ERT-4I-82820141 RA	96	85	102	94
480-66431-2	ERT-4I-82820142	95	86	88	93
MB 480-201883/6		91	89	95	84
MB 480-202028/6		93	84	93	97
LCS 480-201883/4		97	90	90	95
LCS 480-202028/4		91	82	82	84

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Method Blank - Batch: 480-201883

Method: 8260C Preparation: 5030C

Lab Sample ID: MB 480-201883/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/11/2014 1318
Prep Date: 09/11/2014 1318
Leach Date: N/A

Analysis Batch: 480-201883
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5975T
Lab File ID: T5273.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
m,p-Xylene	2.0	U	0.66	2.0
Methyl acetate	2.5	U	0.50	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
o-Xylene	1.0	U	0.76	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Method Blank - Batch: 480-201883

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-201883/6
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 09/11/2014 1318
 Prep Date: 09/11/2014 1318
 Leach Date: N/A

Analysis Batch: 480-201883
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5975T
 Lab File ID: T5273.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	66 - 137
4-Bromofluorobenzene (Surr)	84	73 - 120
Dibromofluoromethane (Surr)	91	60 - 140
Toluene-d8 (Surr)	95	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Lab Control Sample - Batch: 480-201883

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-201883/4	Analysis Batch:	480-201883	Instrument ID:	HP5975T
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	T5271.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/11/2014 1230	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/11/2014 1230				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	24.1	96	71 - 129	
1,1-Dichloroethene	25.0	26.4	106	58 - 121	
1,2,4-Trimethylbenzene	25.0	26.3	105	76 - 121	
1,2-Dichlorobenzene	25.0	25.8	103	80 - 124	
1,2-Dichloroethane	25.0	24.8	99	75 - 127	
Benzene	25.0	25.4	102	71 - 124	
Chlorobenzene	25.0	25.0	100	72 - 120	
cis-1,2-Dichloroethene	25.0	25.2	101	74 - 124	
Ethylbenzene	25.0	24.3	97	77 - 123	
m,p-Xylene	25.0	25.4	102	76 - 122	
Methyl tert-butyl ether	25.0	24.8	99	64 - 127	
o-Xylene	25.0	24.5	98	76 - 122	
Tetrachloroethene	25.0	23.5	94	74 - 122	
Toluene	25.0	24.0	96	80 - 122	
trans-1,2-Dichloroethene	25.0	25.6	102	73 - 127	
Trichloroethene	25.0	26.7	107	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90	66 - 137
4-Bromofluorobenzene (Surr)	95	73 - 120
Dibromofluoromethane (Surr)	97	60 - 140
Toluene-d8 (Surr)	90	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Method Blank - Batch: 480-202028

Method: 8260C Preparation: 5030C

Lab Sample ID: MB 480-202028/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/12/2014 0045
Prep Date: 09/12/2014 0045
Leach Date: N/A

Analysis Batch: 480-202028
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5975T
Lab File ID: T5301.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2,3-Trimethylbenzene	1.0	U	0.26	1.0
1,2,4-Trichlorobenzene	1.0	U	0.41	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
1,2-Dibromo-3-Chloropropane	1.0	U	0.39	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichlorobenzene	1.0	U	0.79	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
1,3-Dichlorobenzene	1.0	U	0.78	1.0
1,4-Dichlorobenzene	1.0	U	0.84	1.0
2-Butanone (MEK)	10	U	1.3	10
2-Hexanone	5.0	U	1.2	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Cyclohexane	1.0	U	0.18	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
m,p-Xylene	2.0	U	0.66	2.0
Methyl acetate	2.5	U	0.50	2.5
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylcyclohexane	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
o-Xylene	1.0	U	0.76	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Method Blank - Batch: 480-202028

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-202028/6
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/12/2014 0045
Prep Date: 09/12/2014 0045
Leach Date: N/A

Analysis Batch: 480-202028
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5975T
Lab File ID: T5301.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84	66 - 137
4-Bromofluorobenzene (Surr)	97	73 - 120
Dibromofluoromethane (Surr)	93	60 - 140
Toluene-d8 (Surr)	93	71 - 126

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Lab Control Sample - Batch: 480-202028

Method: 8260C

Preparation: 5030C

Lab Sample ID: LCS 480-202028/4
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 09/11/2014 2357
 Prep Date: 09/11/2014 2357
 Leach Date: N/A

Analysis Batch: 480-202028
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5975T
 Lab File ID: T5299.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	20.6	83	71 - 129	
1,1-Dichloroethene	25.0	27.9	111	58 - 121	
1,2,4-Trimethylbenzene	25.0	23.4	94	76 - 121	
1,2-Dichlorobenzene	25.0	23.8	95	80 - 124	
1,2-Dichloroethane	25.0	21.1	84	75 - 127	
Benzene	25.0	22.7	91	71 - 124	
Chlorobenzene	25.0	22.7	91	72 - 120	
cis-1,2-Dichloroethene	25.0	22.8	91	74 - 124	
Ethylbenzene	25.0	23.2	93	77 - 123	
m,p-Xylene	25.0	23.2	93	76 - 122	
Methyl tert-butyl ether	25.0	22.5	90	64 - 127	
o-Xylene	25.0	20.4	82	76 - 122	
Tetrachloroethene	25.0	20.1	80	74 - 122	
Toluene	25.0	20.6	82	80 - 122	
trans-1,2-Dichloroethene	25.0	22.0	88	73 - 127	
Trichloroethene	25.0	23.9	96	74 - 123	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	82		66 - 137		
4-Bromofluorobenzene (Surr)	84		73 - 120		
Dibromofluoromethane (Surr)	91		60 - 140		
Toluene-d8 (Surr)	82		71 - 126		

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	H	Sample was prepped or analyzed beyond the specified holding time

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-201883					
LCS 480-201883/4	Lab Control Sample	T	Water	8260C	
MB 480-201883/6	Method Blank	T	Water	8260C	
480-66431-1	ERT-4I-82820141	T	Water	8260C	
480-66431-2	ERT-4I-82820142	T	Water	8260C	
Analysis Batch:480-202028					
LCS 480-202028/4	Lab Control Sample	T	Water	8260C	
MB 480-202028/6	Method Blank	T	Water	8260C	
480-66431-1RA	ERT-4I-82820141	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Laboratory Chronicle

Lab ID: 480-66431-1

Client ID: ERT-4I-82820141

Sample Date/Time: 08/28/2014 14:10

Received Date/Time: 08/30/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-66431-B-1		480-201883		09/11/2014 20:33	100	TAL BUF	GTG
A:8260C	480-66431-B-1		480-201883		09/11/2014 20:33	100	TAL BUF	GTG
P:5030C	480-66431-C-1	RA	480-202028		09/12/2014 06:11	80	TAL BUF	EDB
A:8260C	480-66431-C-1	RA	480-202028		09/12/2014 06:11	80	TAL BUF	EDB

Lab ID: 480-66431-2

Client ID: ERT-4I-82820142

Sample Date/Time: 08/28/2014 14:16

Received Date/Time: 08/30/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-66431-B-2		480-201883		09/11/2014 20:57	50	TAL BUF	GTG
A:8260C	480-66431-B-2		480-201883		09/11/2014 20:57	50	TAL BUF	GTG

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:5030C	MB 480-201883/6		480-201883		09/11/2014 13:18	1	TAL BUF	GTG
A:8260C	MB 480-201883/6		480-201883		09/11/2014 13:18	1	TAL BUF	GTG
P:5030C	MB 480-202028/6		480-202028		09/12/2014 00:45	1	TAL BUF	EDB
A:8260C	MB 480-202028/6		480-202028		09/12/2014 00:45	1	TAL BUF	EDB

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:5030C	LCS 480-201883/4		480-201883		09/11/2014 12:30	1	TAL BUF	GTG
A:8260C	LCS 480-201883/4		480-201883		09/11/2014 12:30	1	TAL BUF	GTG
P:5030C	LCS 480-202028/4		480-202028		09/11/2014 23:57	1	TAL BUF	EDB
A:8260C	LCS 480-202028/4		480-202028		09/11/2014 23:57	1	TAL BUF	EDB

Lab References:

TAL BUF = TestAmerica Buffalo

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
ERT-4I-82820141	480-66431-1	98	86	93	92
ERT-4I-82820141 RA	480-66431-1 RA	96	85	102	94
ERT-4I-82820142	480-66431-2	95	86	88	93
	MB 480-201883/6	91	89	95	84
	MB 480-202028/6	93	84	93	97
	LCS 480-201883/4	97	90	90	95
	LCS 480-202028/4	91	82	82	84

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T5271.D
 Lab ID: LCS 480-201883/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	24.1	96	71-129	
1,1-Dichloroethene	25.0	26.4	106	58-121	
1,2,4-Trimethylbenzene	25.0	26.3	105	76-121	
1,2-Dichlorobenzene	25.0	25.8	103	80-124	
1,2-Dichloroethane	25.0	24.8	99	75-127	
Benzene	25.0	25.4	102	71-124	
Chlorobenzene	25.0	25.0	100	72-120	
cis-1,2-Dichloroethene	25.0	25.2	101	74-124	
Ethylbenzene	25.0	24.3	97	77-123	
m,p-Xylene	25.0	25.4	102	76-122	
Methyl tert-butyl ether	25.0	24.8	99	64-127	
o-Xylene	25.0	24.5	98	76-122	
Tetrachloroethene	25.0	23.5	94	74-122	
Toluene	25.0	24.0	96	80-122	
trans-1,2-Dichloroethene	25.0	25.6	102	73-127	
Trichloroethene	25.0	26.7	107	74-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T5299.D
 Lab ID: LCS 480-202028/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	20.6	83	71-129	
1,1-Dichloroethene	25.0	27.9	111	58-121	
1,2,4-Trimethylbenzene	25.0	23.4	94	76-121	
1,2-Dichlorobenzene	25.0	23.8	95	80-124	
1,2-Dichloroethane	25.0	21.1	84	75-127	
Benzene	25.0	22.7	91	71-124	
Chlorobenzene	25.0	22.7	91	72-120	
cis-1,2-Dichloroethene	25.0	22.8	91	74-124	
Ethylbenzene	25.0	23.2	93	77-123	
m,p-Xylene	25.0	23.2	93	76-122	
Methyl tert-butyl ether	25.0	22.5	90	64-127	
o-Xylene	25.0	20.4	82	76-122	
Tetrachloroethene	25.0	20.1	80	74-122	
Toluene	25.0	20.6	82	80-122	
trans-1,2-Dichloroethene	25.0	22.0	88	73-127	
Trichloroethene	25.0	23.9	96	74-123	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
SDG No.: _____
Lab File ID: T5273.D Lab Sample ID: MB 480-201883/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5975T Date Analyzed: 09/11/2014 13:18
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-201883/4	T5271.D	09/11/2014 12:30
ERT-4I-82820141	480-66431-1	T5291.D	09/11/2014 20:33
ERT-4I-82820142	480-66431-2	T5292.D	09/11/2014 20:57

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
SDG No.: _____
Lab File ID: T5301.D Lab Sample ID: MB 480-202028/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5975T Date Analyzed: 09/12/2014 00:45
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-202028/4	T5299.D	09/11/2014 23:57
ERT-4I-82820141 RA	480-66431-1 RA	T5313.D	09/12/2014 06:11

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

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
SDG No.: _____
Lab File ID: T4565.D BFB Injection Date: 08/25/2014
Instrument ID: HP5975T BFB Injection Time: 15:43
Analysis Batch No.: 199422

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.3
75	30.0 - 60.0 % of mass 95	51.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.4
173	Less than 2.0 % of mass 174	0.5 (0.7) 1
174	50.0 - 120.00 % of mass 95	75.7
175	5.0 - 9.0 % of mass 174	5.8 (7.7) 1
176	95.0 - 101.0 % of mass 174	73.4 (97.0) 1
177	5.0 - 9.0 % of mass 176	5.0 (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 480-199422/8	T4567.D	08/25/2014	16:30
	IC 480-199422/9	T4568.D	08/25/2014	16:54
	IC 480-199422/10	T4569.D	08/25/2014	17:18
	IC 480-199422/11	T4570.D	08/25/2014	17:43
	ICIS 480-199422/12	T4571.D	08/25/2014	18:07
	IC 480-199422/13	T4572.D	08/25/2014	18:31
	IC 480-199422/14	T4573.D	08/25/2014	18:54
	IC 480-199422/18	T4577.D	08/25/2014	20:29
	IC 480-199422/19	T4578.D	08/25/2014	20:53
	IC 480-199422/20	T4579.D	08/25/2014	21:17
	IC 480-199422/21	T4580.D	08/25/2014	21:41
	IC 480-199422/22	T4581.D	08/25/2014	22:05
	IC 480-199422/23	T4582.D	08/25/2014	22:29
	IC 480-199422/24	T4583.D	08/25/2014	22:53

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

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
 SDG No.: _____
 Lab File ID: T5268.D BFB Injection Date: 09/11/2014
 Instrument ID: HP5975T BFB Injection Time: 09:57
 Analysis Batch No.: 201883

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.7
75	30.0 - 60.0 % of mass 95	51.0
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	0.6 (0.7)1
174	50.0 - 120.00 % of mass 95	78.0
175	5.0 - 9.0 % of mass 174	5.6 (7.1)1
176	95.0 - 101.0 % of mass 174	75.7 (97.1)1
177	5.0 - 9.0 % of mass 176	5.3 (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
	CCVIS 480-201883/2	T5269.D	09/11/2014	10:29
	LCS 480-201883/4	T5271.D	09/11/2014	12:30
	MB 480-201883/6	T5273.D	09/11/2014	13:18
ERT-4I-82820141	480-66431-1	T5291.D	09/11/2014	20:33
ERT-4I-82820142	480-66431-2	T5292.D	09/11/2014	20:57

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

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
 SDG No.: _____
 Lab File ID: T5296.D BFB Injection Date: 09/11/2014
 Instrument ID: HP5975T BFB Injection Time: 22:45
 Analysis Batch No.: 202028

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.6
75	30.0 - 60.0 % of mass 95	46.8
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	0.3 (0.4) 1
174	50.0 - 120.00 % of mass 95	79.5
175	5.0 - 9.0 % of mass 174	6.0 (7.5) 1
176	95.0 - 101.0 % of mass 174	76.7 (96.5) 1
177	5.0 - 9.0 % of mass 176	4.4 (5.8) 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
	CCVIS 480-202028/2	T5297.D	09/11/2014	23:09
	LCS 480-202028/4	T5299.D	09/11/2014	23:57
	MB 480-202028/6	T5301.D	09/12/2014	00:45
ERT-4I-82820141 RA	480-66431-1 RA	T5313.D	09/12/2014	06:11

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

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
SDG No.: _____
Sample No.: ICIS 480-199422/12 Date Analyzed: 08/25/2014 18:07
Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm)
Lab File ID (Standard): T4571.D Heated Purge: (Y/N) N
Calibration ID: 19969

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	669102	4.34	471878	6.64	257706	8.49	
UPPER LIMIT	1338204	4.84	943756	7.14	515412	8.99	
LOWER LIMIT	334551	3.84	235939	6.14	128853	7.99	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-201883/2		582652	4.34	416742	6.64	231138	8.49
CCVIS 480-202028/2		560050	4.34	411758	6.64	213828	8.49

FB = Fluorobenzene (IS)

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
 SDG No.: _____
 Sample No.: CCVIS 480-201883/2 Date Analyzed: 09/11/2014 10:29
 Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): T5269.D Heated Purge: (Y/N) N
 Calibration ID: 19972

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	582652	4.34	416742	6.64	231138	8.49	
UPPER LIMIT	1165304	4.84	833484	7.14	462276	8.99	
LOWER LIMIT	291326	3.84	208371	6.14	115569	7.99	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-201883/4		633920	4.34	508373	6.64	259778	8.49
MB 480-201883/6		622192	4.34	441104	6.63	193623	8.49
480-66431-1	ERT-4I-82820141	525352	4.34	438067	6.63	195389	8.49
480-66431-2	ERT-4I-82820142	507354	4.34	430406	6.64	189382	8.49

FB = Fluorobenzene (IS)

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
 SDG No.: _____
 Sample No.: CCVIS 480-202028/2 Date Analyzed: 09/11/2014 23:09
 Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): T5297.D Heated Purge: (Y/N) N
 Calibration ID: 19972

		FB		CBZ		DCB		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		560050	4.34	411758	6.64	213828	8.49	
UPPER LIMIT		1120100	4.84	823516	7.14	427656	8.99	
LOWER LIMIT		280025	3.84	205879	6.14	106914	7.99	
LAB SAMPLE ID		CLIENT SAMPLE ID						
LCS 480-202028/4		545472	4.34	463941	6.64	212942	8.49	
MB 480-202028/6		529474	4.34	381976	6.64	194232	8.49	
480-66431-1 RA		ERT-4I-82820141 RA	517305	4.34	376809	6.64	194463	8.49

FB = Fluorobenzene (IS)

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: ERT-4I-82820141 RA Lab Sample ID: 480-66431-1 RA

Matrix: Water Lab File ID: T5313.D

Analysis Method: 8260C Date Collected: 08/28/2014 14:10

Sample wt/vol: 5(mL) Date Analyzed: 09/12/2014 06:11

Soil Aliquot Vol: _____ Dilution Factor: 80

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 202028 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3600	H	80	66
79-34-5	1,1,2,2-Tetrachloroethane	80	U H	80	17
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	80	U H	80	25
79-00-5	1,1,2-Trichloroethane	80	U H	80	18
75-34-3	1,1-Dichloroethane	100	H	80	30
75-35-4	1,1-Dichloroethene	160	H	80	23
526-73-8	1,2,3-Trimethylbenzene	80	U H	80	21
120-82-1	1,2,4-Trichlorobenzene	80	U H	80	33
95-63-6	1,2,4-Trimethylbenzene	80	U H	80	60
96-12-8	1,2-Dibromo-3-Chloropropane	80	U H	80	31
106-93-4	1,2-Dibromoethane	80	U H	80	58
95-50-1	1,2-Dichlorobenzene	80	U H	80	63
107-06-2	1,2-Dichloroethane	80	U H	80	17
78-87-5	1,2-Dichloropropane	80	U H	80	58
108-67-8	1,3,5-Trimethylbenzene	80	U H	80	62
541-73-1	1,3-Dichlorobenzene	80	U H	80	62
106-46-7	1,4-Dichlorobenzene	80	U H	80	67
78-93-3	2-Butanone (MEK)	800	U H	800	110
591-78-6	2-Hexanone	400	U H	400	99
108-10-1	4-Methyl-2-pentanone (MIBK)	400	U H *	400	170
67-64-1	Acetone	800	U H	800	240
71-43-2	Benzene	80	U H	80	33
75-27-4	Bromodichloromethane	80	U H	80	31
75-25-2	Bromoform	80	U H	80	21
74-83-9	Bromomethane	80	U H	80	55
75-15-0	Carbon disulfide	80	U H	80	15
56-23-5	Carbon tetrachloride	80	U H	80	22
108-90-7	Chlorobenzene	80	U H	80	60
75-00-3	Chloroethane	80	U H	80	26
67-66-3	Chloroform	80	U H	80	27
74-87-3	Chloromethane	80	U H	80	28
156-59-2	cis-1,2-Dichloroethene	80	U H	80	65
10061-01-5	cis-1,3-Dichloropropene	80	U H	80	29
110-82-7	Cyclohexane	80	U H	80	14
124-48-1	Dibromochloromethane	80	U H	80	26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: ERT-4I-82820141 RA Lab Sample ID: 480-66431-1 RA

Matrix: Water Lab File ID: T5313.D

Analysis Method: 8260C Date Collected: 08/28/2014 14:10

Sample wt/vol: 5(mL) Date Analyzed: 09/12/2014 06:11

Soil Aliquot Vol: _____ Dilution Factor: 80

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 202028 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	80	U H	80	59
98-82-8	Isopropylbenzene	80	U H	80	63
179601-23-1	m,p-Xylene	160	U H	160	53
79-20-9	Methyl acetate	200	U H	200	40
1634-04-4	Methyl tert-butyl ether	80	U H	80	13
108-87-2	Methylcyclohexane	80	U H	80	13
75-09-2	Methylene Chloride	80	U H	80	35
95-47-6	o-Xylene	80	U H	80	61
100-42-5	Styrene	80	U H	80	58
127-18-4	Tetrachloroethene	80	U H	80	29
108-88-3	Toluene	80	U H	80	41
156-60-5	trans-1,2-Dichloroethene	80	U H	80	72
10061-02-6	trans-1,3-Dichloropropene	80	U H	80	30
79-01-6	Trichloroethene	80	U H	80	37
75-69-4	Trichlorofluoromethane	80	U H	80	70
75-01-4	Vinyl chloride	80	U H	80	72
1330-20-7	Xylenes, Total	160	U H	160	53

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		60-140
2037-26-5	Toluene-d8 (Surr)	102		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5313.D
 Lims ID: 480-66431-C-1 Lab Sample ID: 480-66431-1
 Client ID: ERT-4I-82820141
 Sample Type: Client
 Inject. Date: 12-Sep-2014 06:11:30 ALS Bottle#: 18 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 80.0000
 Sample Info: 480-66431-C-1
 Misc. Info.: 480-0035300-012
 Operator ID: gtg Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Sep-2014 16:56:45 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: boldte

Date: 12-Sep-2014 11:16:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	517305	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.626	0.010	86	376809	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	96	194463	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	129141	24.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	146375	21.2	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	495940	25.4	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	93	138232	23.4	
13 Chloromethane	50		1.030				ND	
14 Vinyl chloride	62		1.102				ND	
15 Bromomethane	94		1.330				ND	
16 Chloroethane	64		1.403				ND	
17 Trichlorofluoromethane	101		1.569				ND	
22 1,1-Dichloroethene	96	1.973	1.973	0.000	92	9521	1.98	
20 1,1,2-Trichloro-1,2,2-trif	101		1.983				ND	
23 Acetone	43	2.107	2.107	0.000	29	917	0.3093	
25 Carbon disulfide	76		2.128				ND	
28 Methyl acetate	43		2.366				ND	
30 Methylene Chloride	84		2.439				ND	
32 trans-1,2-Dichloroethene	96		2.636				ND	
33 Methyl tert-butyl ether	73		2.636				ND	
36 1,1-Dichloroethane	63	2.999	2.999	0.000	95	15127	1.27	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	68	789	0.1274	
44 2-Butanone (MEK)	43		3.527				ND	
50 Chloroform	83		3.734				ND	
52 Cyclohexane	56		3.817				ND	
51 1,1,1-Trichloroethane	97	3.828	3.817	0.011	99	344214	44.7	
53 Carbon tetrachloride	117		3.931				ND	
55 Benzene	78		4.118				ND	
57 1,2-Dichloroethane	62		4.180				ND	
1 1,4-Difluorobenzene	114		4.429				ND	
60 Trichloroethene	95		4.605				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		4.688				ND	
63 1,2-Dichloropropane	63		4.802				ND	
67 Dichlorobromomethane	83		5.030				ND	
71 cis-1,3-Dichloropropene	75		5.351				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.475				ND	
73 Toluene	92		5.569				ND	
75 trans-1,3-Dichloropropene	75		5.786				ND	
78 1,1,2-Trichloroethane	83		5.931				ND	
79 Tetrachloroethene	166		5.962				ND	
81 2-Hexanone	43		6.118				ND	
82 Chlorodibromomethane	129		6.222				ND	
83 Ethylene Dibromide	107		6.294				ND	
86 Chlorobenzene	112		6.657				ND	
88 Ethylbenzene	91		6.729				ND	
90 m-Xylene & p-Xylene	106		6.823				ND	
91 o-Xylene	106		7.133				ND	
92 Styrene	104		7.154				ND	
93 Bromoform	173		7.330				ND	
95 Isopropylbenzene	105		7.413				ND	
98 1,1,2,2-Tetrachloroethane	83		7.724				ND	
104 1,3,5-Trimethylbenzene	105		7.890				ND	
107 1,2,4-Trimethylbenzene	105		8.190				ND	
110 1,3-Dichlorobenzene	146		8.429				ND	
113 1,4-Dichlorobenzene	146		8.501				ND	
114 1,2,3-Trimethylbenzene	105		8.533				ND	
116 1,2-Dichlorobenzene	146		8.812				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.486				ND	
119 1,2,4-Trichlorobenzene	180		10.118				ND	
S 126 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00085

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00081

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5313.D

Injection Date: 12-Sep-2014 06:11:30

Instrument ID: HP5975T

Operator ID: gtg

Lims ID: 480-66431-C-1

Lab Sample ID: 480-66431-1

Worklist Smp#: 12

Client ID: ERT-4I-82820141

Purge Vol: 5.000 mL

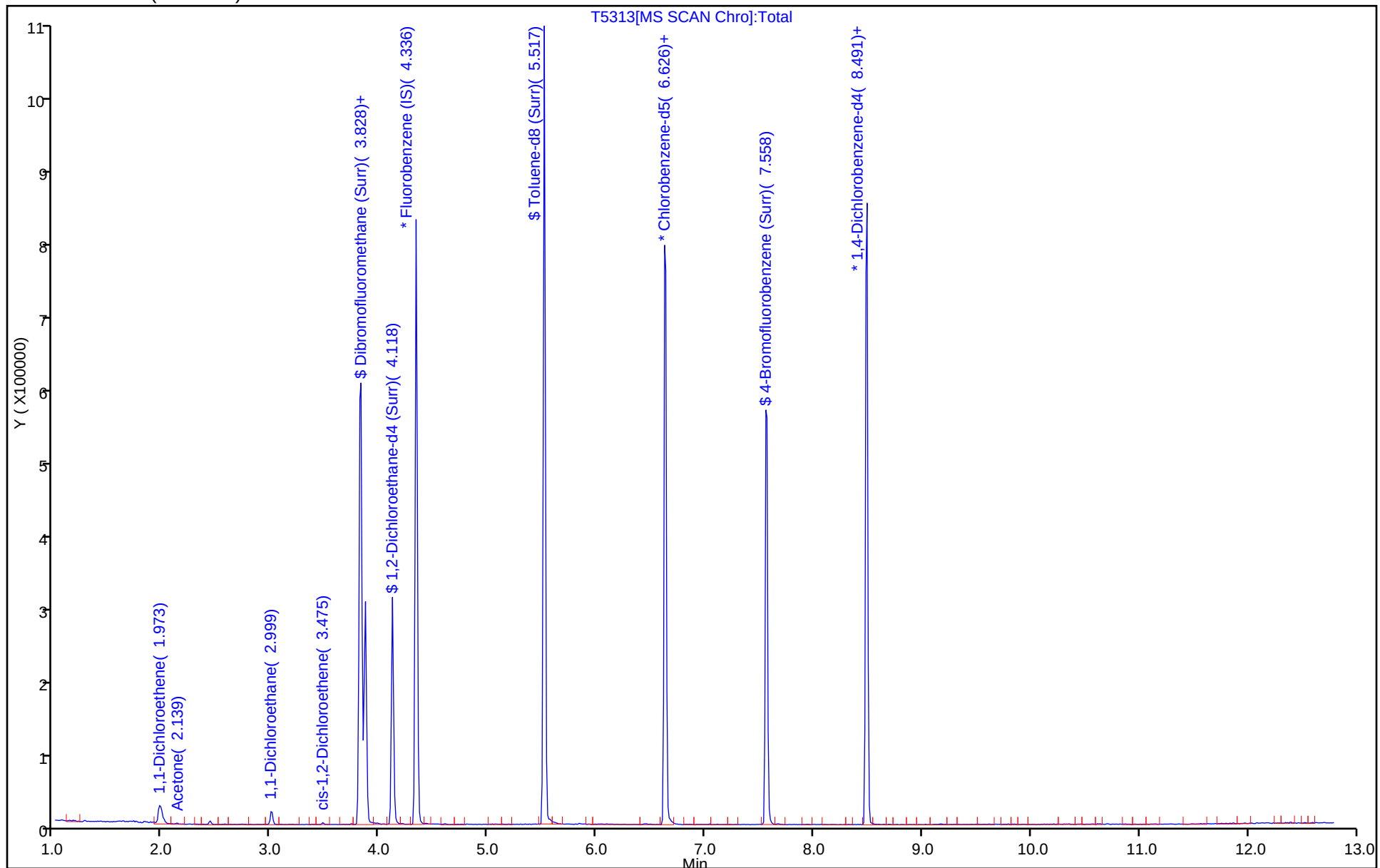
Dil. Factor: 80.0000

ALS Bottle#: 18

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5313.D

Injection Date: 12-Sep-2014 06:11:30

Instrument ID: HP5975T

Lims ID: 480-66431-C-1

Lab Sample ID: 480-66431-1

Client ID: ERT-4I-82820141

Operator ID: gtg

ALS Bottle#: 18

Worklist Smp#: 12

Purge Vol: 5.000 mL

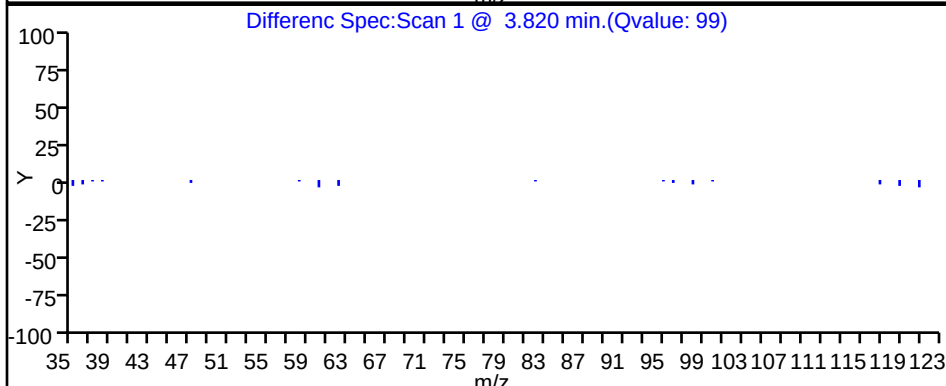
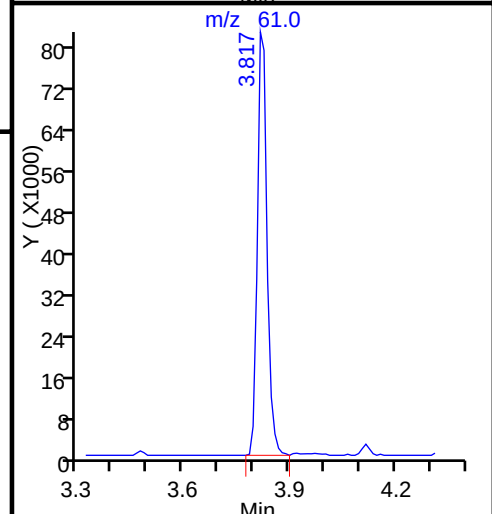
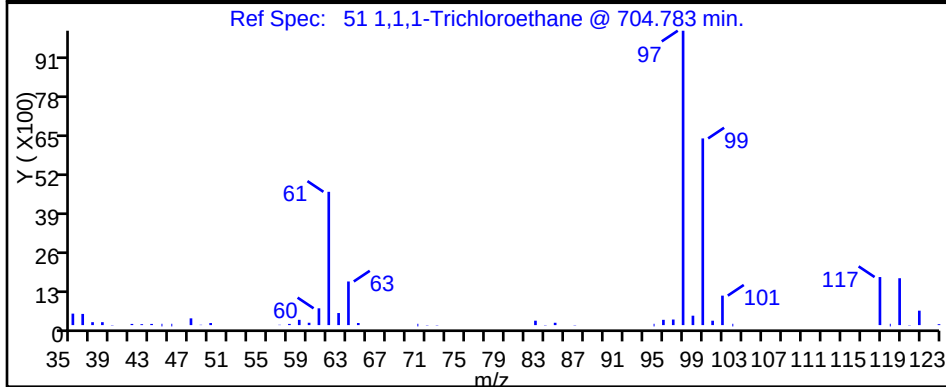
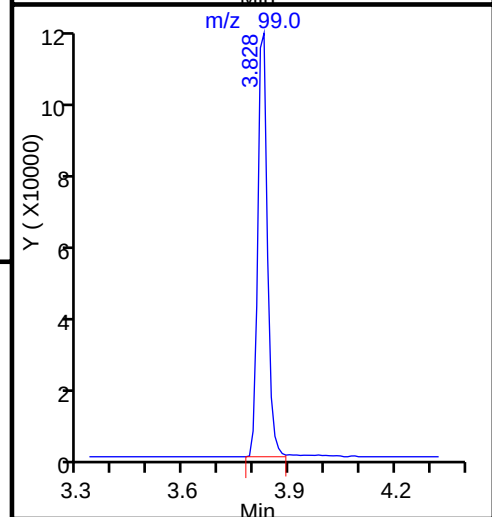
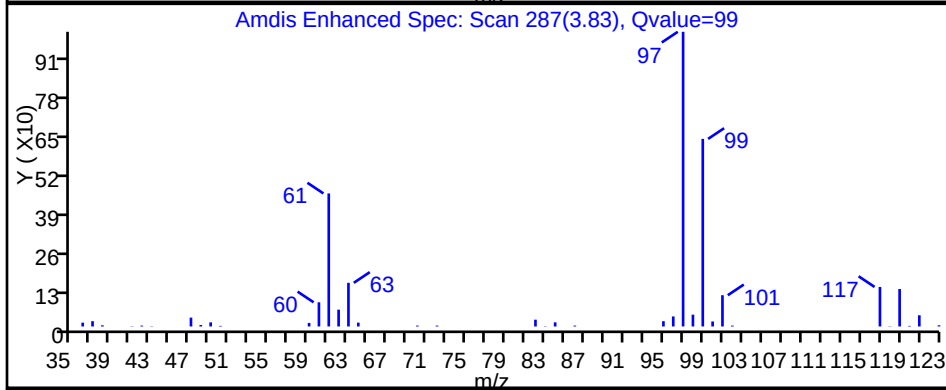
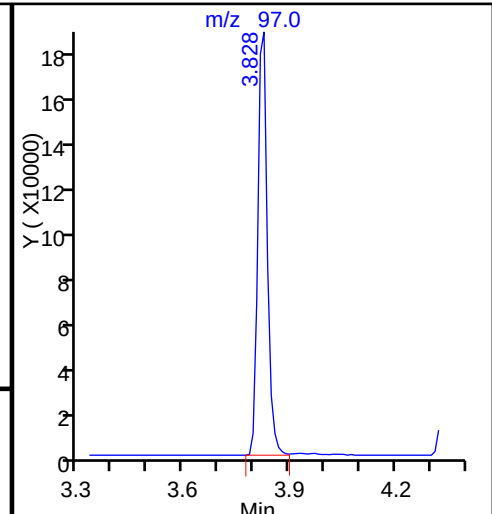
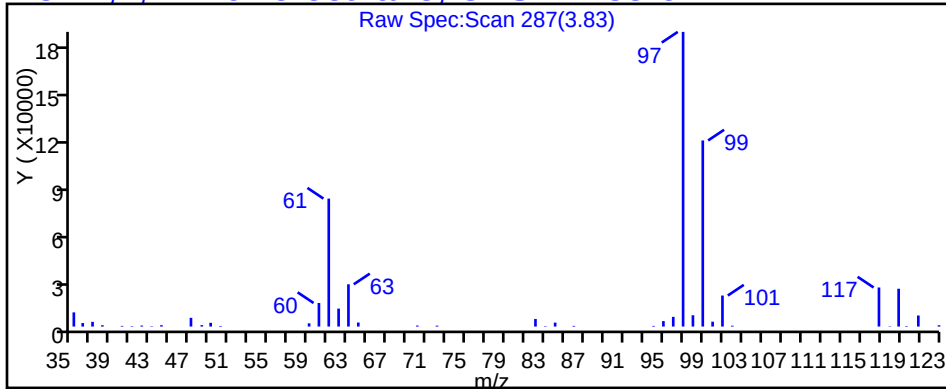
Dil. Factor: 80.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5313.D

Injection Date: 12-Sep-2014 06:11:30

Instrument ID: HP5975T

Lims ID: 480-66431-C-1

Lab Sample ID: 480-66431-1

Client ID: ERT-4I-82820141

Operator ID: gtg

ALS Bottle#: 18

Worklist Smp#: 12

Purge Vol: 5.000 mL

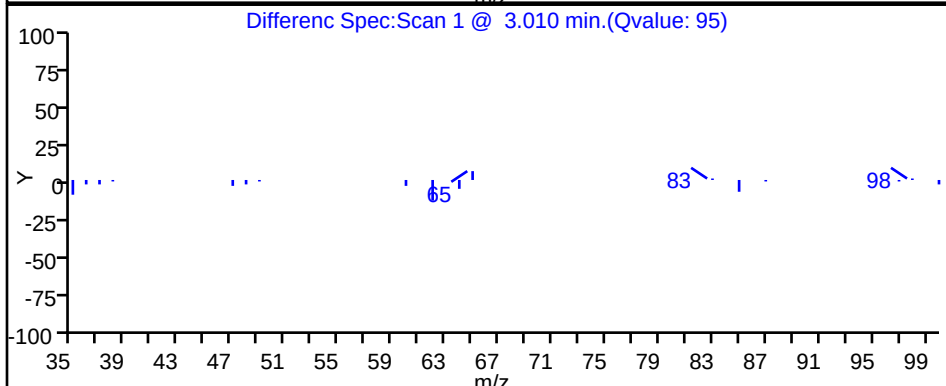
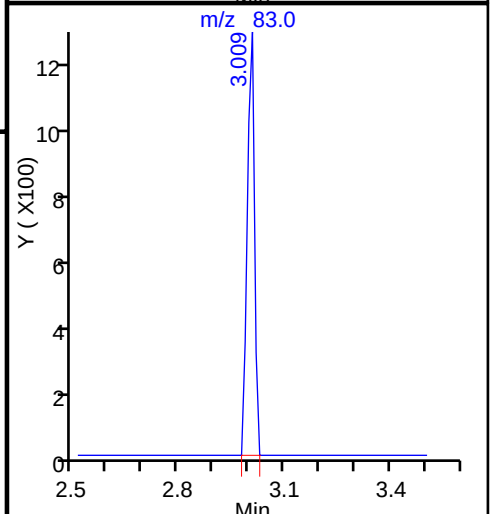
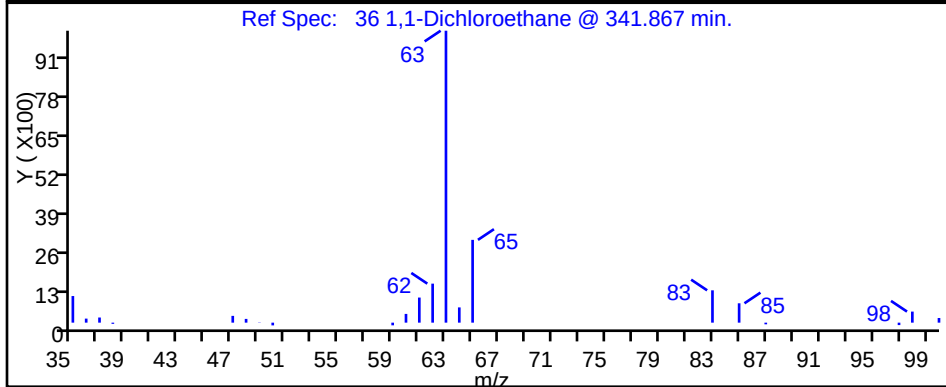
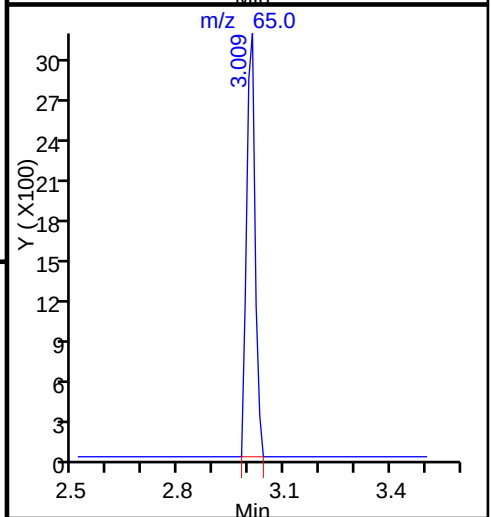
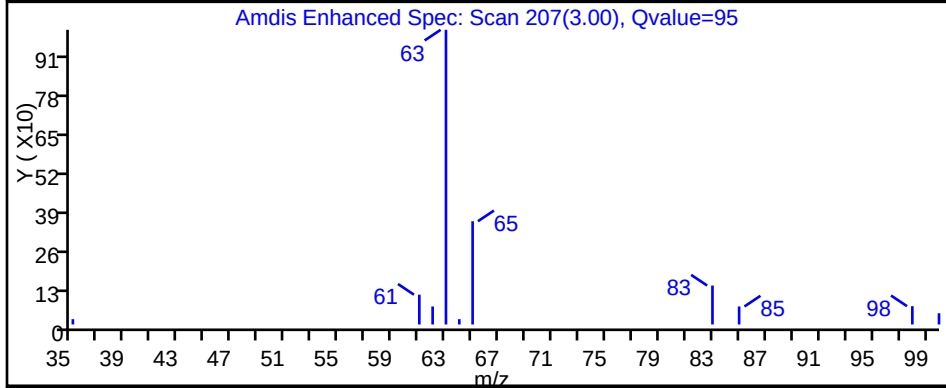
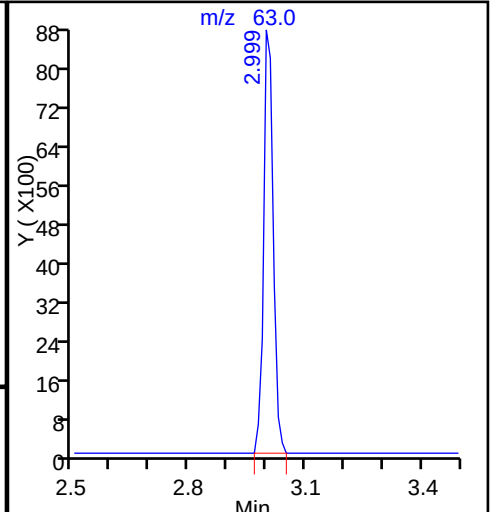
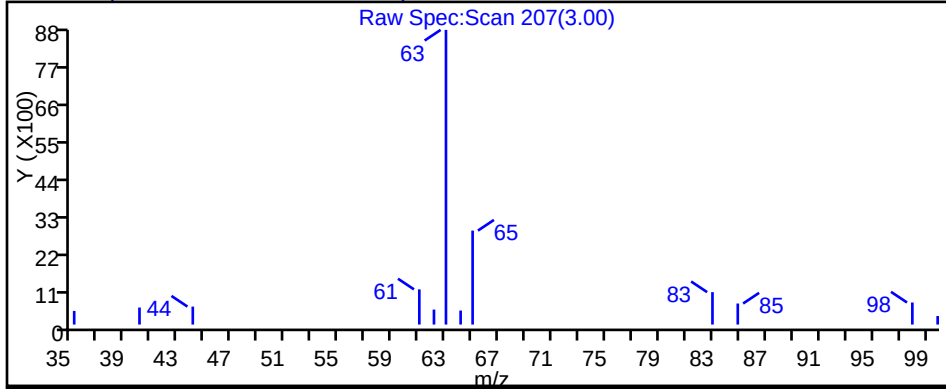
Dil. Factor: 80.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5313.D

Injection Date: 12-Sep-2014 06:11:30

Instrument ID: HP5975T

Lims ID: 480-66431-C-1

Lab Sample ID: 480-66431-1

Client ID: ERT-4I-82820141

Operator ID: gtg

ALS Bottle#: 18

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 80.0000

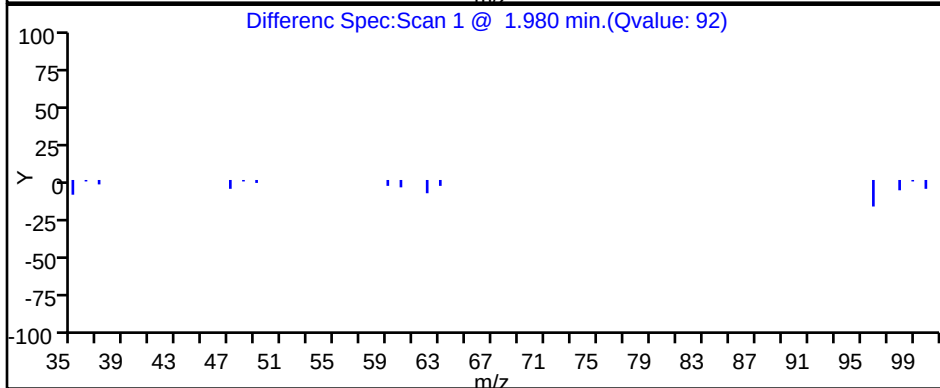
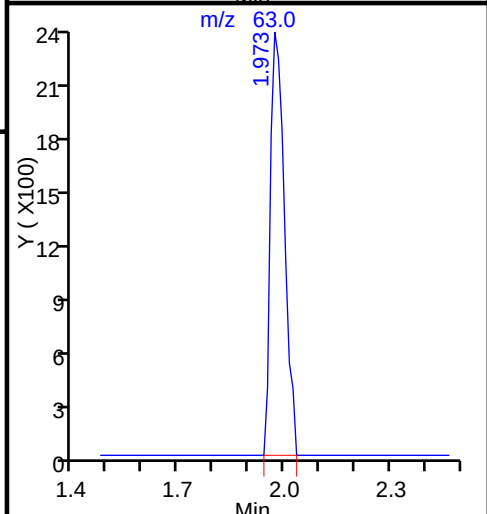
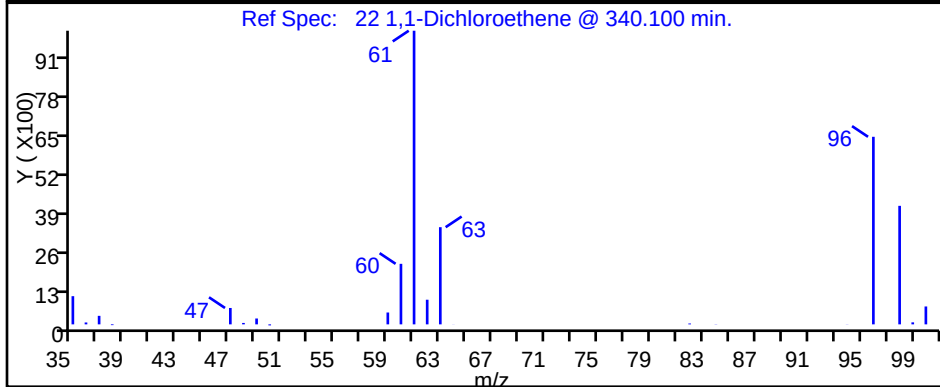
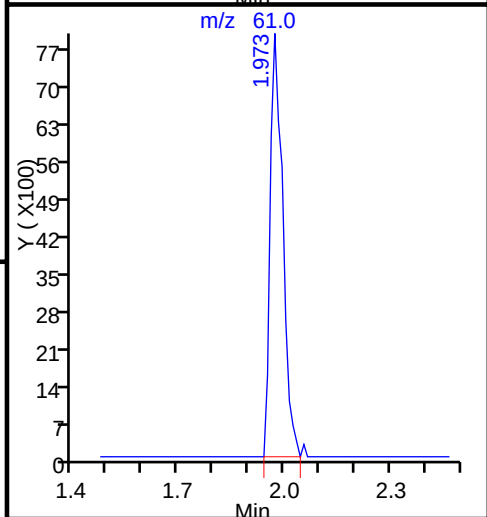
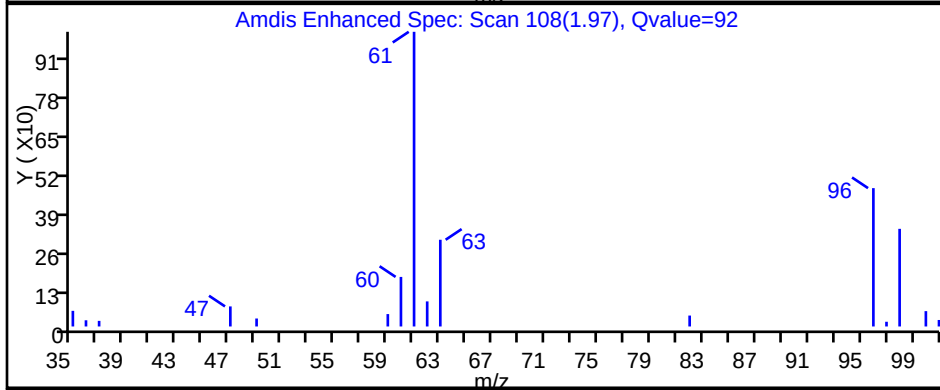
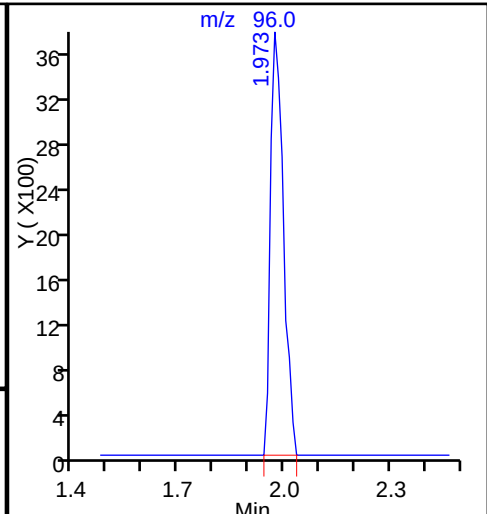
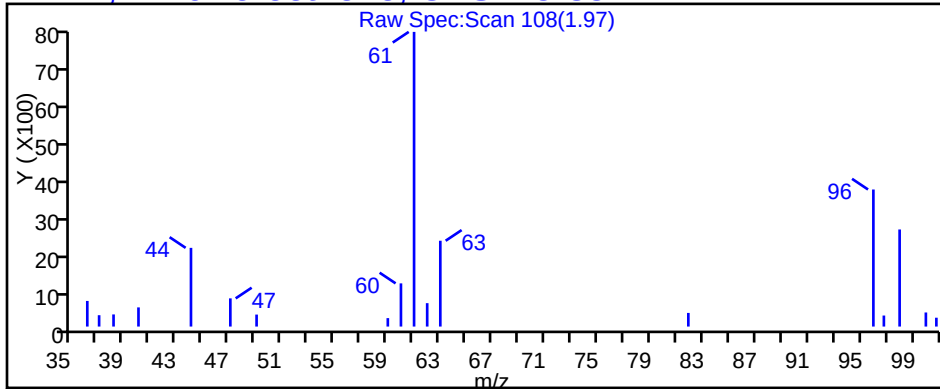
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: ERT-4I-82820141 Lab Sample ID: 480-66431-1

Matrix: Water Lab File ID: T5291.D

Analysis Method: 8260C Date Collected: 08/28/2014 14:10

Sample wt/vol: 5(mL) Date Analyzed: 09/11/2014 20:33

Soil Aliquot Vol: _____ Dilution Factor: 100

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 201883 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3900		100	82
79-34-5	1,1,2,2-Tetrachloroethane	100	U	100	21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U	100	31
79-00-5	1,1,2-Trichloroethane	100	U	100	23
75-34-3	1,1-Dichloroethane	100		100	38
75-35-4	1,1-Dichloroethene	170		100	29
526-73-8	1,2,3-Trimethylbenzene	100	U	100	26
120-82-1	1,2,4-Trichlorobenzene	100	U	100	41
95-63-6	1,2,4-Trimethylbenzene	100	U	100	75
96-12-8	1,2-Dibromo-3-Chloropropane	100	U	100	39
106-93-4	1,2-Dibromoethane	100	U	100	73
95-50-1	1,2-Dichlorobenzene	100	U	100	79
107-06-2	1,2-Dichloroethane	100	U	100	21
78-87-5	1,2-Dichloropropane	100	U	100	72
108-67-8	1,3,5-Trimethylbenzene	100	U	100	77
541-73-1	1,3-Dichlorobenzene	100	U	100	78
106-46-7	1,4-Dichlorobenzene	100	U	100	84
78-93-3	2-Butanone (MEK)	1000	U	1000	130
591-78-6	2-Hexanone	500	U	500	120
108-10-1	4-Methyl-2-pentanone (MIBK)	500	U	500	210
67-64-1	Acetone	1000	U	1000	300
71-43-2	Benzene	100	U	100	41
75-27-4	Bromodichloromethane	100	U	100	39
75-25-2	Bromoform	100	U	100	26
74-83-9	Bromomethane	100	U	100	69
75-15-0	Carbon disulfide	100	U	100	19
56-23-5	Carbon tetrachloride	100	U	100	27
108-90-7	Chlorobenzene	100	U	100	75
75-00-3	Chloroethane	100	U	100	32
67-66-3	Chloroform	100	U	100	34
74-87-3	Chloromethane	100	U	100	35
156-59-2	cis-1,2-Dichloroethene	100	U	100	81
10061-01-5	cis-1,3-Dichloropropene	100	U	100	36
110-82-7	Cyclohexane	100	U	100	18
124-48-1	Dibromochloromethane	100	U	100	32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
 SDG No.: _____
 Client Sample ID: ERT-4I-82820141 Lab Sample ID: 480-66431-1
 Matrix: Water Lab File ID: T5291.D
 Analysis Method: 8260C Date Collected: 08/28/2014 14:10
 Sample wt/vol: 5(mL) Date Analyzed: 09/11/2014 20:33
 Soil Aliquot Vol: _____ Dilution Factor: 100
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 201883 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	100	U	100	74
98-82-8	Isopropylbenzene	100	U	100	79
179601-23-1	m,p-Xylene	200	U	200	66
79-20-9	Methyl acetate	250	U	250	50
1634-04-4	Methyl tert-butyl ether	100	U	100	16
108-87-2	Methylcyclohexane	100	U	100	16
75-09-2	Methylene Chloride	100	U	100	44
95-47-6	o-Xylene	100	U	100	76
100-42-5	Styrene	100	U	100	73
127-18-4	Tetrachloroethene	100	U	100	36
108-88-3	Toluene	100	U	100	51
156-60-5	trans-1,2-Dichloroethene	100	U	100	90
10061-02-6	trans-1,3-Dichloropropene	100	U	100	37
79-01-6	Trichloroethene	100	U	100	46
75-69-4	Trichlorofluoromethane	100	U	100	88
75-01-4	Vinyl chloride	100	U	100	90
1330-20-7	Xylenes, Total	200	U	200	66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		60-140
2037-26-5	Toluene-d8 (Surr)	93		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5291.D
 Lims ID: 480-66431-B-1 Lab Sample ID: 480-66431-1
 Client ID: ERT-4I-82820141
 Sample Type: Client
 Inject. Date: 11-Sep-2014 20:33:30 ALS Bottle#: 83 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 100.0000
 Sample Info: 480-66431-B-1
 Misc. Info.: 480-0035277-024
 Operator ID: CN Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Sep-2014 19:51:19 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 14-Sep-2014 19:51:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	99	525352	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.636	-0.010	89	438067	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	96	195389	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	133797	24.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	151592	21.6	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	93	524738	23.1	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	93	157846	23.0	
13 Chloromethane	50		1.030				ND	
14 Vinyl chloride	62		1.102				ND	
15 Bromomethane	94		1.330				ND	
16 Chloroethane	64		1.403				ND	
17 Trichlorofluoromethane	101		1.558				ND	
22 1,1-Dichloroethene	96	1.973	1.973	0.000	96	8379	1.72	
20 1,1,2-Trichloro-1,2,2-trif	101		1.983				ND	
23 Acetone	43		2.118				ND	
25 Carbon disulfide	76		2.128				ND	
28 Methyl acetate	43		2.377				ND	
30 Methylene Chloride	84		2.439				ND	
33 Methyl tert-butyl ether	73		2.636				ND	
32 trans-1,2-Dichloroethene	96		2.636				ND	
36 1,1-Dichloroethane	63	2.999	2.999	0.000	95	12537	1.04	
43 cis-1,2-Dichloroethene	96	3.465	3.475	-0.010	73	675	0.1073	
44 2-Butanone (MEK)	43		3.538				ND	
50 Chloroform	83		3.745				ND	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	99	303951	38.9	
52 Cyclohexane	56		3.817				ND	
53 Carbon tetrachloride	117		3.931				ND	
55 Benzene	78		4.118				ND	
57 1,2-Dichloroethane	62		4.180				ND	
1 1,4-Difluorobenzene	114		4.429				ND	
60 Trichloroethene	95		4.605				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		4.688				ND	
63 1,2-Dichloropropane	63		4.802				ND	
67 Dichlorobromomethane	83		5.030				ND	
71 cis-1,3-Dichloropropene	75		5.351				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.475				ND	
73 Toluene	92		5.569				ND	
75 trans-1,3-Dichloropropene	75		5.786				ND	
78 1,1,2-Trichloroethane	83		5.931				ND	
79 Tetrachloroethene	166		5.962				ND	
81 2-Hexanone	43		6.118				ND	
82 Chlorodibromomethane	129		6.222				ND	
83 Ethylene Dibromide	107		6.294				ND	
86 Chlorobenzene	112		6.657				ND	
88 Ethylbenzene	91		6.729				ND	
90 m-Xylene & p-Xylene	106		6.812				ND	
91 o-Xylene	106		7.134				ND	
92 Styrene	104		7.154				ND	
93 Bromoform	173		7.330				ND	
95 Isopropylbenzene	105		7.413				ND	
98 1,1,2,2-Tetrachloroethane	83		7.724				ND	
104 1,3,5-Trimethylbenzene	105		7.890				ND	
107 1,2,4-Trimethylbenzene	105		8.191				ND	
110 1,3-Dichlorobenzene	146		8.429				ND	
113 1,4-Dichlorobenzene	146		8.501				ND	
114 1,2,3-Trimethylbenzene	105		8.533				ND	
116 1,2-Dichlorobenzene	146		8.812				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.486				ND	
119 1,2,4-Trichlorobenzene	180		10.118				ND	
S 126 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00085

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00081

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5291.D

Injection Date: 11-Sep-2014 20:33:30

Instrument ID: HP5975T

Operator ID: CN

Lims ID: 480-66431-B-1

Lab Sample ID: 480-66431-1

Worklist Smp#: 24

Client ID: ERT-4I-82820141

Purge Vol: 5.000 mL

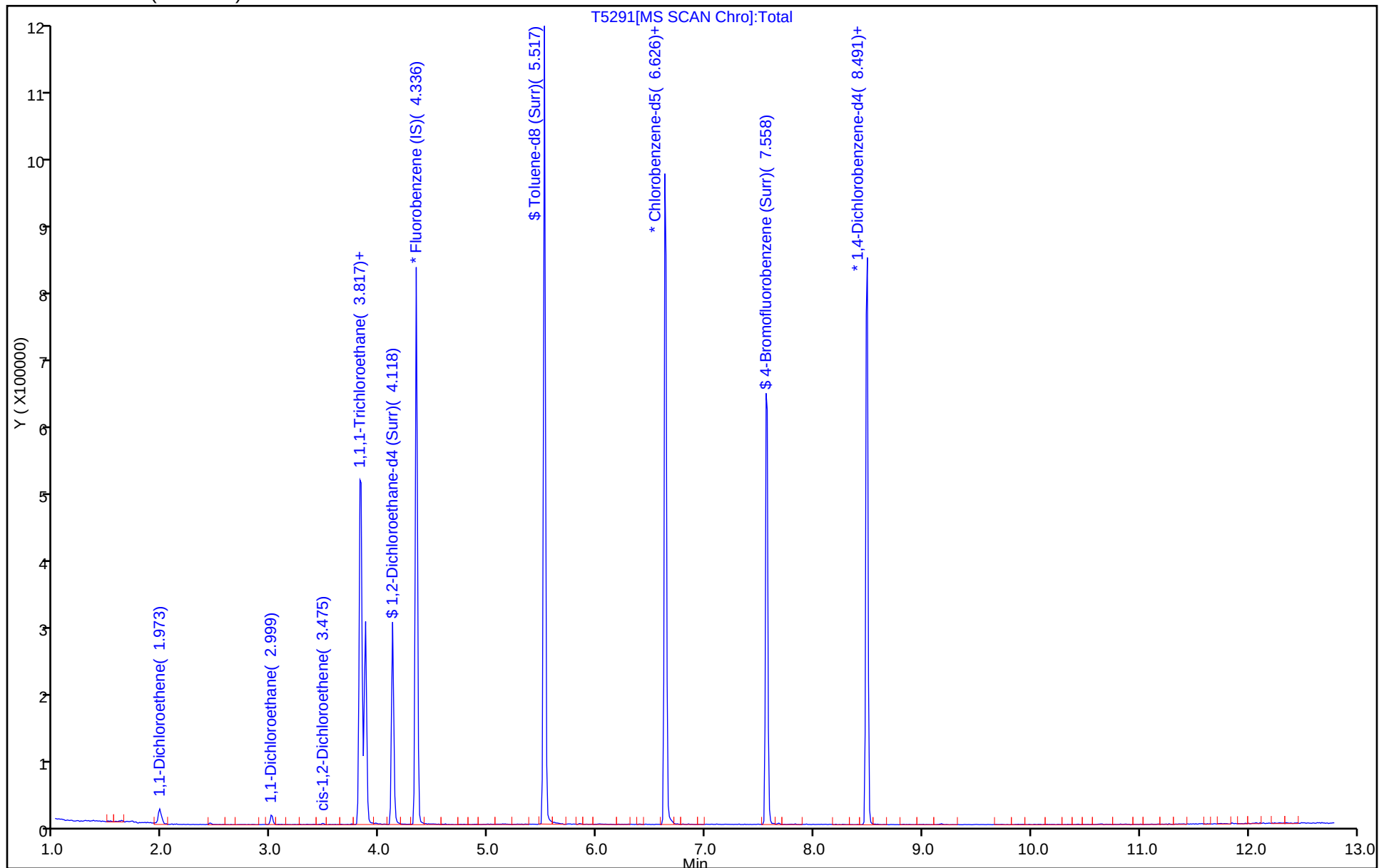
Dil. Factor: 100.0000

ALS Bottle#: 83

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5291.D

Injection Date: 11-Sep-2014 20:33:30

Instrument ID: HP5975T

Lims ID: 480-66431-B-1

Lab Sample ID: 480-66431-1

Client ID: ERT-4I-82820141

Operator ID: CN

ALS Bottle#: 83

Worklist Smp#: 24

Purge Vol: 5.000 mL

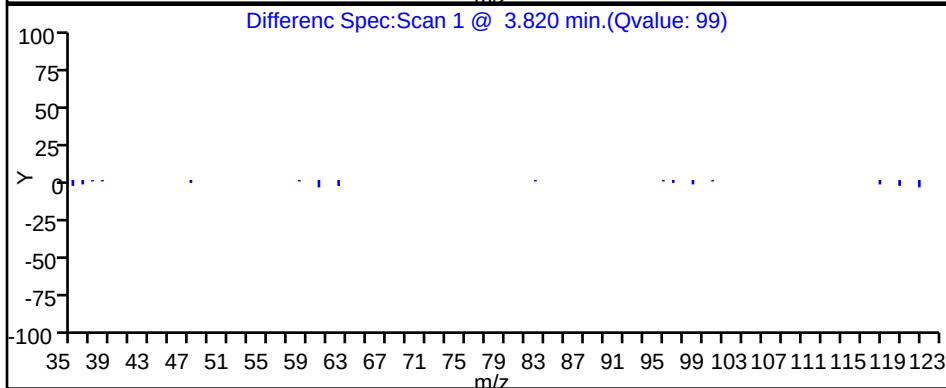
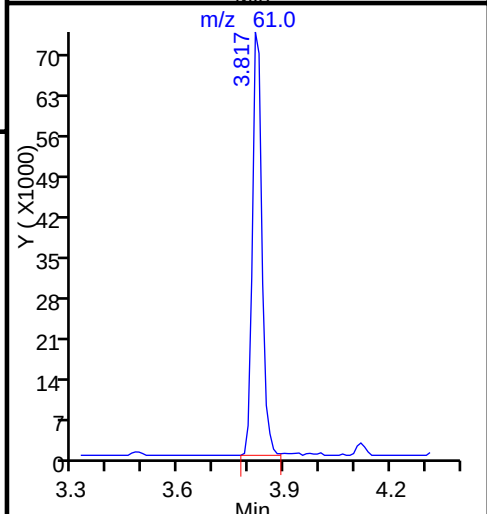
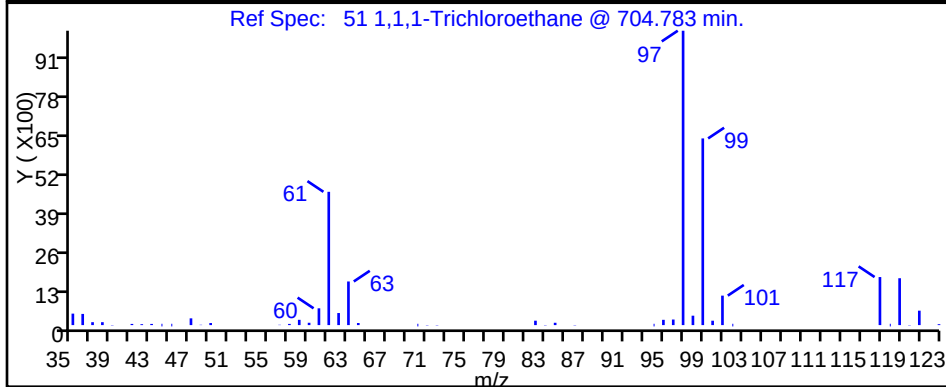
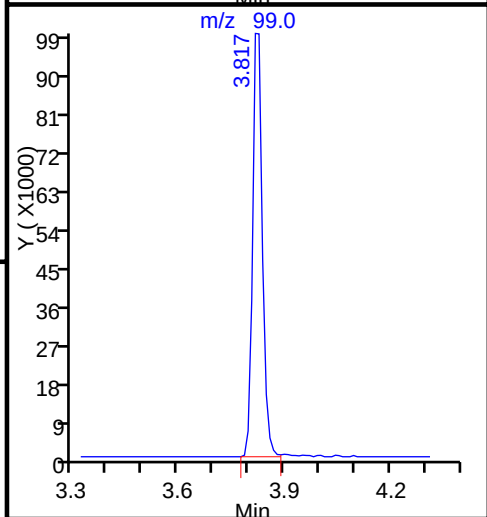
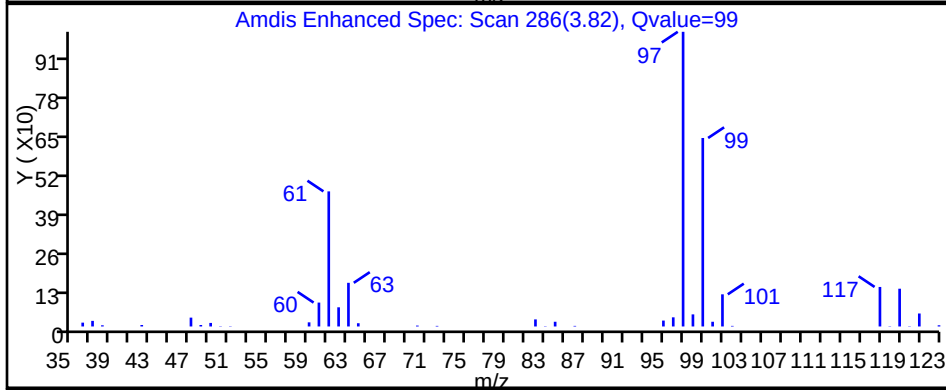
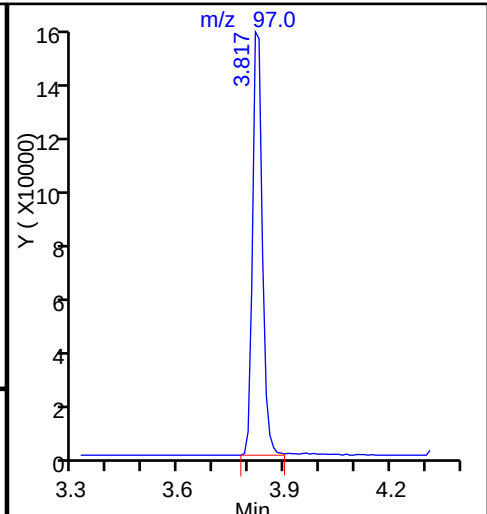
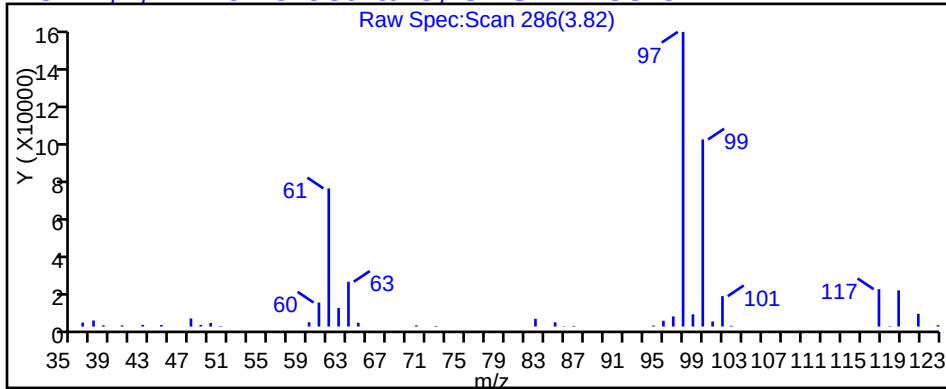
Dil. Factor: 100.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5291.D

Injection Date: 11-Sep-2014 20:33:30

Instrument ID: HP5975T

Lims ID: 480-66431-B-1

Lab Sample ID: 480-66431-1

Client ID: ERT-4I-82820141

Operator ID: CN

ALS Bottle#: 83

Worklist Smp#: 24

Purge Vol: 5.000 mL

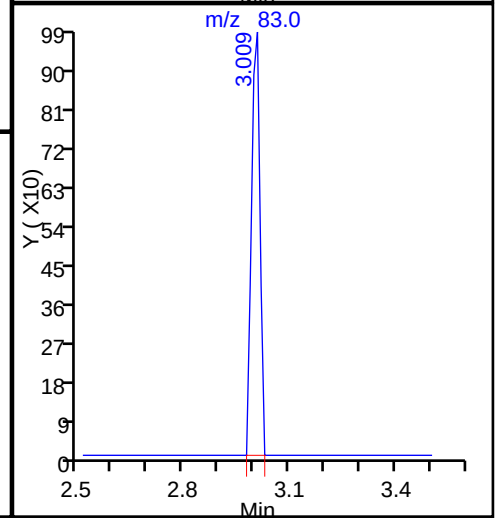
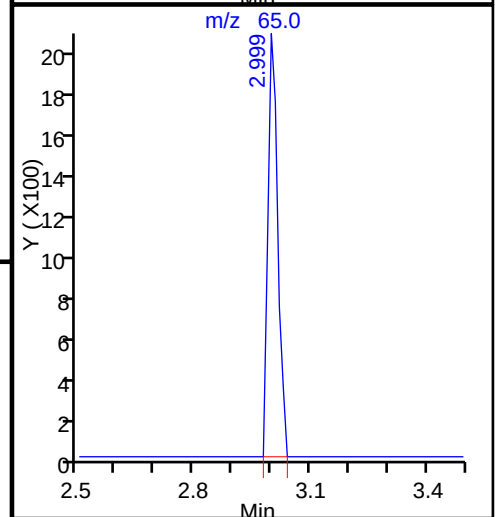
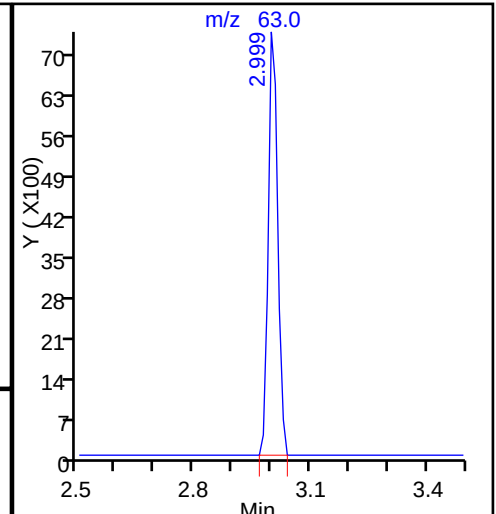
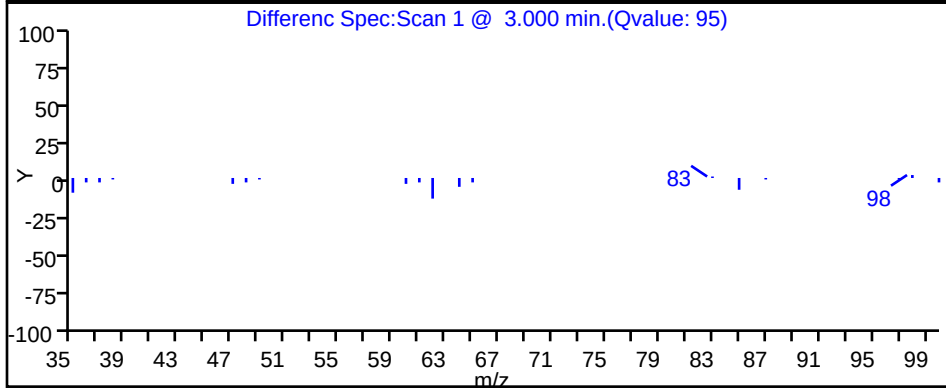
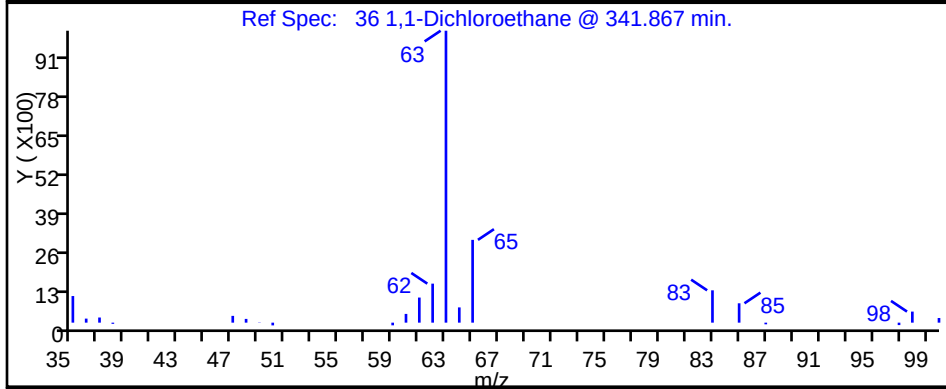
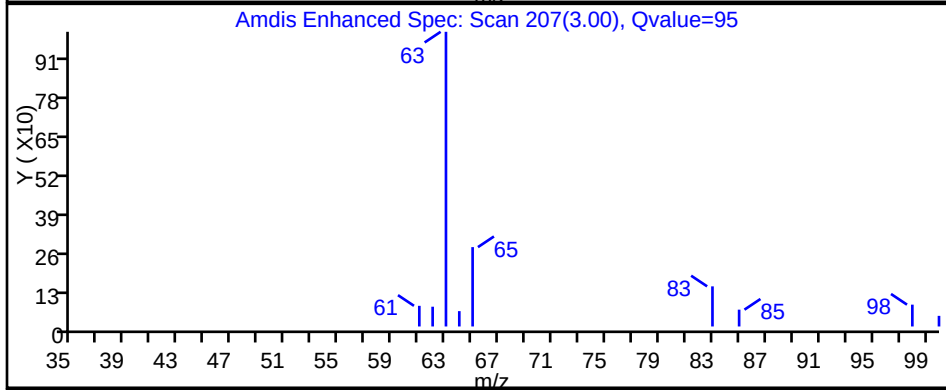
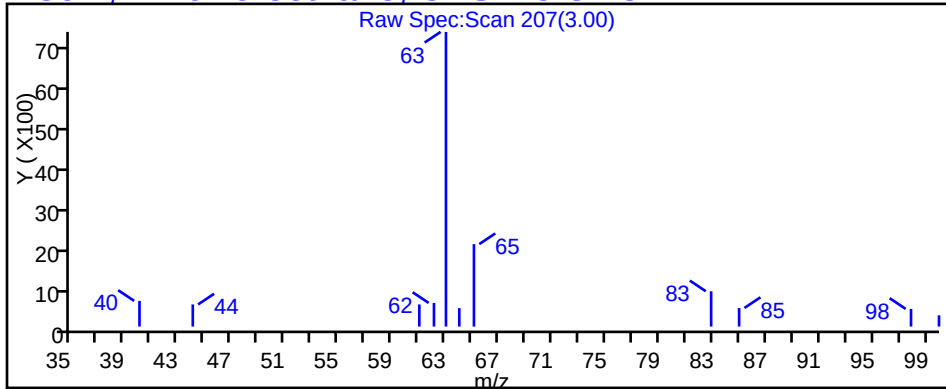
Dil. Factor: 100.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5291.D

Injection Date: 11-Sep-2014 20:33:30

Instrument ID: HP5975T

Lims ID: 480-66431-B-1

Lab Sample ID: 480-66431-1

Client ID: ERT-4I-82820141

Operator ID: CN

ALS Bottle#: 83

Worklist Smp#: 24

Purge Vol: 5.000 mL

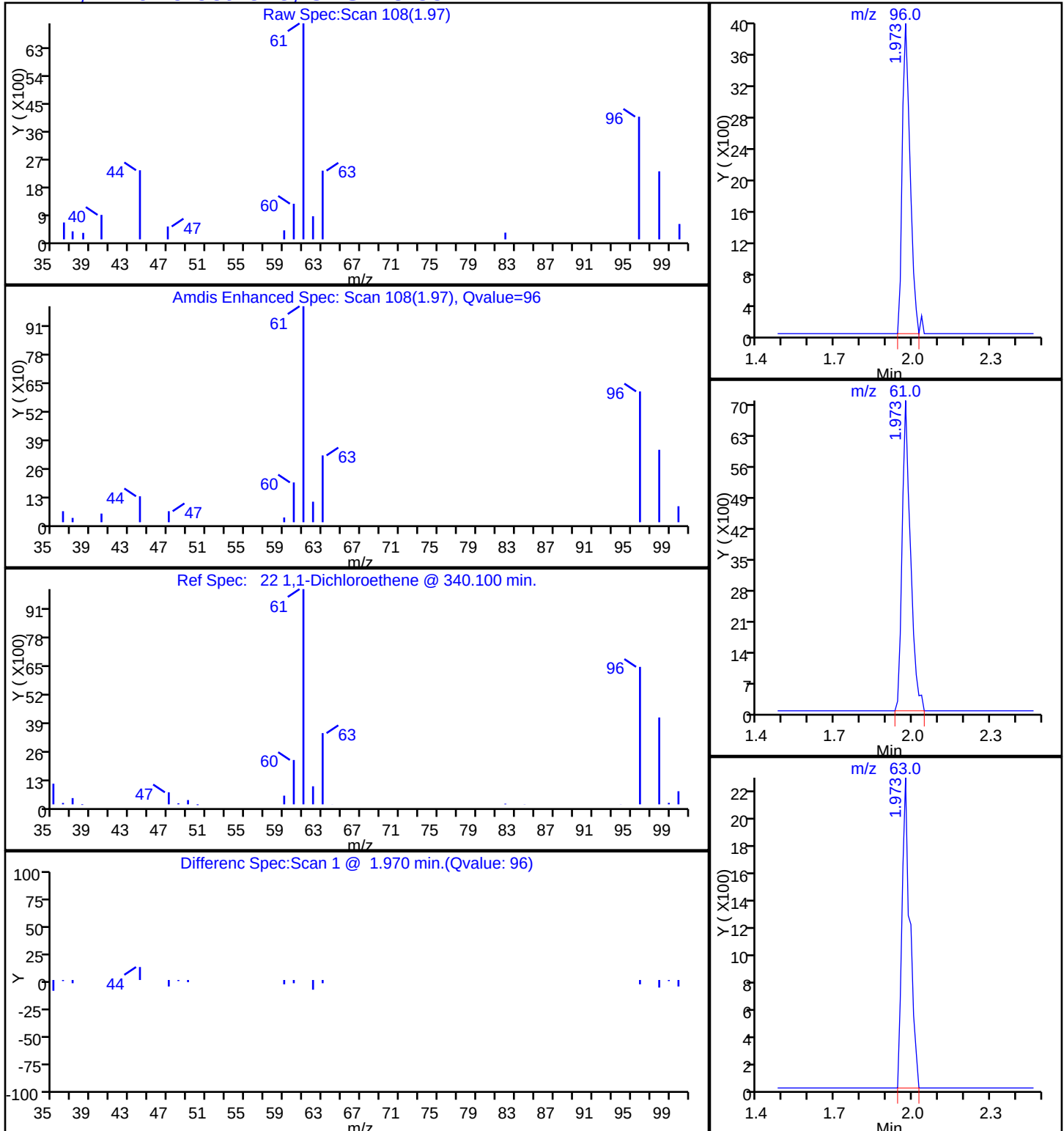
Dil. Factor: 100.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: ERT-4I-82820142 Lab Sample ID: 480-66431-2

Matrix: Water Lab File ID: T5292.D

Analysis Method: 8260C Date Collected: 08/28/2014 14:16

Sample wt/vol: 5(mL) Date Analyzed: 09/11/2014 20:57

Soil Aliquot Vol: _____ Dilution Factor: 50

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 201883 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2700		50	41
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U	50	16
79-00-5	1,1,2-Trichloroethane	50	U	50	12
75-34-3	1,1-Dichloroethane	78		50	19
75-35-4	1,1-Dichloroethene	130		50	15
526-73-8	1,2,3-Trimethylbenzene	50	U	50	13
120-82-1	1,2,4-Trichlorobenzene	50	U	50	21
95-63-6	1,2,4-Trimethylbenzene	50	U	50	38
96-12-8	1,2-Dibromo-3-Chloropropane	50	U	50	20
106-93-4	1,2-Dibromoethane	50	U	50	37
95-50-1	1,2-Dichlorobenzene	50	U	50	40
107-06-2	1,2-Dichloroethane	50	U	50	11
78-87-5	1,2-Dichloropropane	50	U	50	36
108-67-8	1,3,5-Trimethylbenzene	50	U	50	39
541-73-1	1,3-Dichlorobenzene	50	U	50	39
106-46-7	1,4-Dichlorobenzene	50	U	50	42
78-93-3	2-Butanone (MEK)	500	U	500	66
591-78-6	2-Hexanone	250	U	250	62
108-10-1	4-Methyl-2-pentanone (MIBK)	250	U	250	110
67-64-1	Acetone	500	U	500	150
71-43-2	Benzene	50	U	50	21
75-27-4	Bromodichloromethane	50	U	50	20
75-25-2	Bromoform	50	U	50	13
74-83-9	Bromomethane	50	U	50	35
75-15-0	Carbon disulfide	50	U	50	9.5
56-23-5	Carbon tetrachloride	50	U	50	14
108-90-7	Chlorobenzene	50	U	50	38
75-00-3	Chloroethane	50	U	50	16
67-66-3	Chloroform	50	U	50	17
74-87-3	Chloromethane	50	U	50	18
156-59-2	cis-1,2-Dichloroethene	50	U	50	41
10061-01-5	cis-1,3-Dichloropropene	50	U	50	18
110-82-7	Cyclohexane	50	U	50	9.0
124-48-1	Dibromochloromethane	50	U	50	16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
 SDG No.: _____
 Client Sample ID: ERT-4I-82820142 Lab Sample ID: 480-66431-2
 Matrix: Water Lab File ID: T5292.D
 Analysis Method: 8260C Date Collected: 08/28/2014 14:16
 Sample wt/vol: 5(mL) Date Analyzed: 09/11/2014 20:57
 Soil Aliquot Vol: _____ Dilution Factor: 50
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 201883 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	50	U	50	37
98-82-8	Isopropylbenzene	50	U	50	40
179601-23-1	m,p-Xylene	100	U	100	33
79-20-9	Methyl acetate	130	U	130	25
1634-04-4	Methyl tert-butyl ether	50	U	50	8.0
108-87-2	Methylcyclohexane	50	U	50	8.0
75-09-2	Methylene Chloride	50	U	50	22
95-47-6	o-Xylene	50	U	50	38
100-42-5	Styrene	50	U	50	37
127-18-4	Tetrachloroethene	50	U	50	18
108-88-3	Toluene	50	U	50	26
156-60-5	trans-1,2-Dichloroethene	50	U	50	45
10061-02-6	trans-1,3-Dichloropropene	50	U	50	19
79-01-6	Trichloroethene	50	U	50	23
75-69-4	Trichlorofluoromethane	50	U	50	44
75-01-4	Vinyl chloride	50	U	50	45
1330-20-7	Xylenes, Total	100	U	100	33

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		66-137
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	95		60-140
2037-26-5	Toluene-d8 (Surr)	88		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5292.D
 Lims ID: 480-66431-B-2 Lab Sample ID: 480-66431-2
 Client ID: ERT-4I-82820142
 Sample Type: Client
 Inject. Date: 11-Sep-2014 20:57:30 ALS Bottle#: 84 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 50.0000
 Sample Info: 480-66431-B-2
 Misc. Info.: 480-0035277-025
 Operator ID: CN Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 14-Sep-2014 19:51:19 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: goliszekg

Date: 11-Sep-2014 22:02:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.336	-0.001	99	507354	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	88	430406	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	96	189382	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	125750	23.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	145474	21.5	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	489369	22.0	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	93	156981	23.2	
13 Chloromethane	50		1.030				ND	
14 Vinyl chloride	62		1.102				ND	
15 Bromomethane	94		1.330				ND	
16 Chloroethane	64		1.403				ND	
17 Trichlorofluoromethane	101		1.558				ND	
22 1,1-Dichloroethene	96	1.983	1.973	0.010	94	12334	2.62	
20 1,1,2-Trichloro-1,2,2-trif	101		1.983				ND	
23 Acetone	43		2.118				ND	
25 Carbon disulfide	76		2.128				ND	
28 Methyl acetate	43		2.377				ND	
30 Methylene Chloride	84		2.439				ND	
33 Methyl tert-butyl ether	73		2.636				ND	
32 trans-1,2-Dichloroethene	96		2.636				ND	
36 1,1-Dichloroethane	63	3.009	2.999	0.010	95	18230	1.56	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	78	1203	0.1980	
44 2-Butanone (MEK)	43		3.538				ND	
50 Chloroform	83		3.745				ND	
51 1,1,1-Trichloroethane	97	3.828	3.817	0.011	99	405279	53.7	
52 Cyclohexane	56		3.817				ND	
53 Carbon tetrachloride	117		3.931				ND	
55 Benzene	78		4.118				ND	
57 1,2-Dichloroethane	62		4.180				ND	
1 1,4-Difluorobenzene	114		4.429				ND	
60 Trichloroethene	95		4.605				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		4.688				ND	
63 1,2-Dichloropropane	63		4.802				ND	
67 Dichlorobromomethane	83		5.030				ND	
71 cis-1,3-Dichloropropene	75		5.351				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.475				ND	
73 Toluene	92		5.569				ND	
75 trans-1,3-Dichloropropene	75		5.786				ND	
78 1,1,2-Trichloroethane	83		5.931				ND	
79 Tetrachloroethene	166		5.962				ND	
81 2-Hexanone	43		6.118				ND	
82 Chlorodibromomethane	129		6.222				ND	
83 Ethylene Dibromide	107		6.294				ND	
86 Chlorobenzene	112		6.657				ND	
88 Ethylbenzene	91		6.729				ND	
90 m-Xylene & p-Xylene	106		6.812				ND	
91 o-Xylene	106		7.134				ND	
92 Styrene	104		7.154				ND	
93 Bromoform	173		7.330				ND	
95 Isopropylbenzene	105		7.413				ND	
98 1,1,2,2-Tetrachloroethane	83		7.724				ND	
104 1,3,5-Trimethylbenzene	105		7.890				ND	
107 1,2,4-Trimethylbenzene	105		8.191				ND	
110 1,3-Dichlorobenzene	146		8.429				ND	
113 1,4-Dichlorobenzene	146		8.501				ND	
114 1,2,3-Trimethylbenzene	105		8.533				ND	
116 1,2-Dichlorobenzene	146		8.812				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.486				ND	
119 1,2,4-Trichlorobenzene	180		10.118				ND	
S 126 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00085

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00081

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5292.D

Injection Date: 11-Sep-2014 20:57:30

Instrument ID: HP5975T

Operator ID: CN

Lims ID: 480-66431-B-2

Lab Sample ID: 480-66431-2

Worklist Smp#: 25

Client ID: ERT-4I-82820142

Purge Vol: 5.000 mL

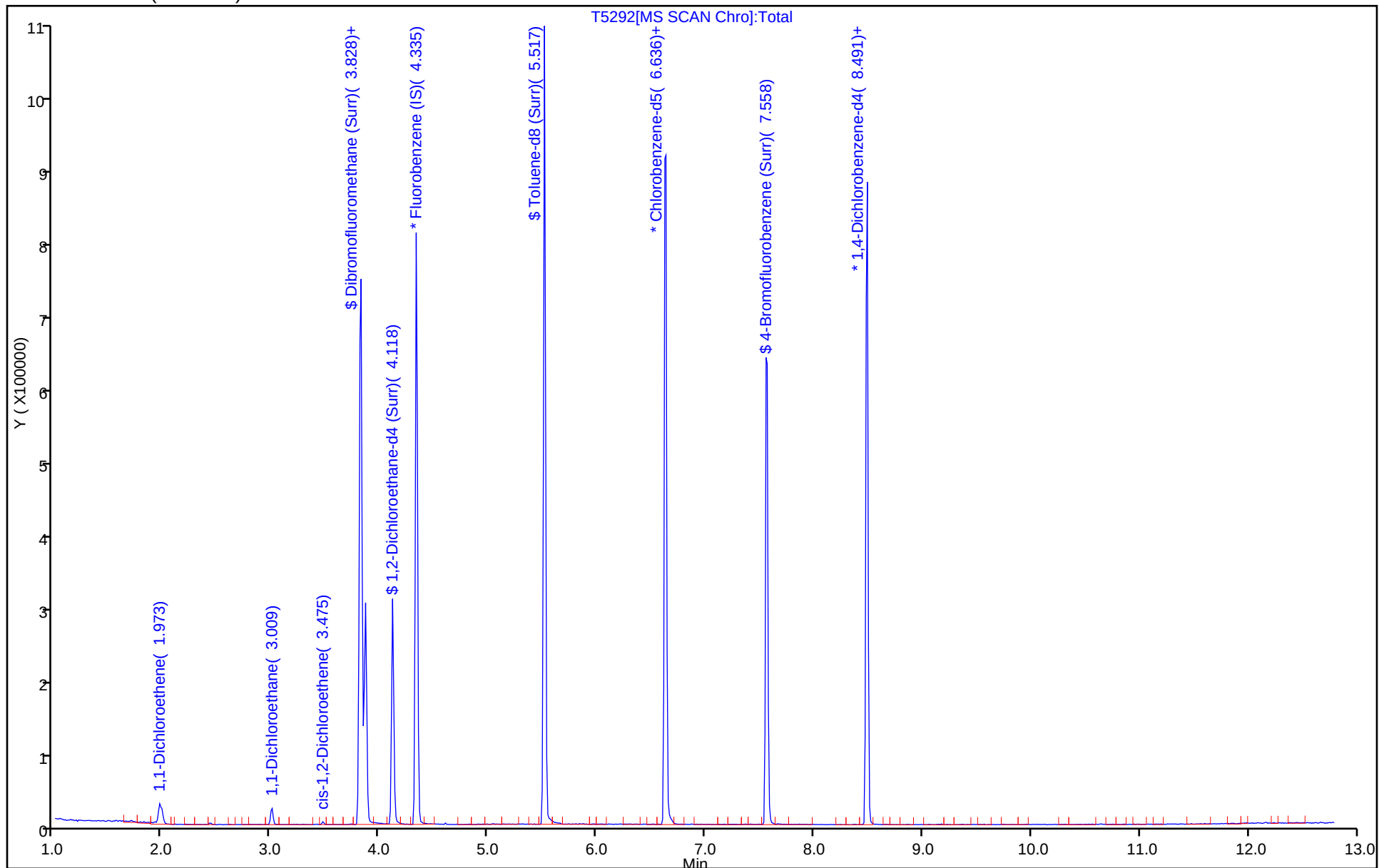
Dil. Factor: 50.0000

ALS Bottle#: 84

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5292.D

Injection Date: 11-Sep-2014 20:57:30

Instrument ID: HP5975T

Lims ID: 480-66431-B-2

Lab Sample ID: 480-66431-2

Client ID: ERT-4I-82820142

Operator ID: CN

ALS Bottle#: 84

Worklist Smp#: 25

Purge Vol: 5.000 mL

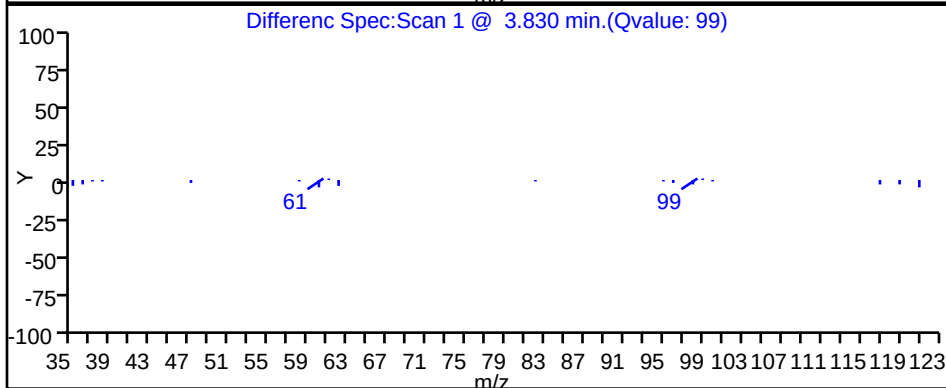
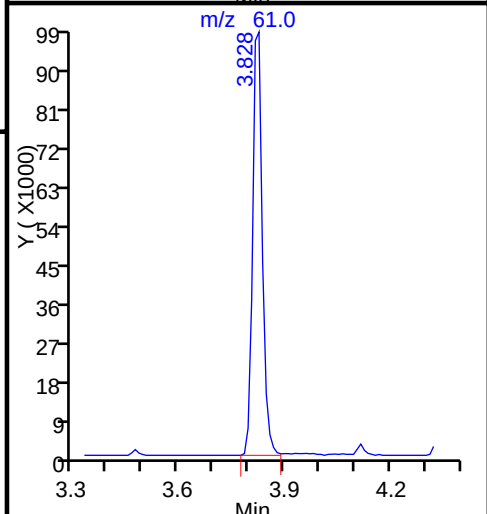
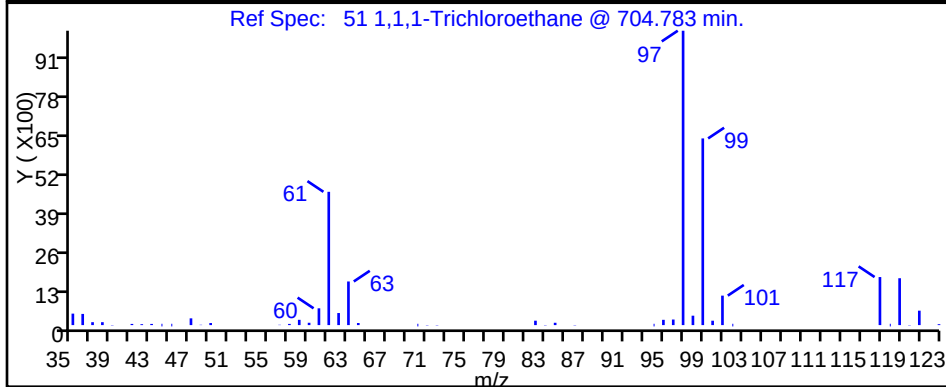
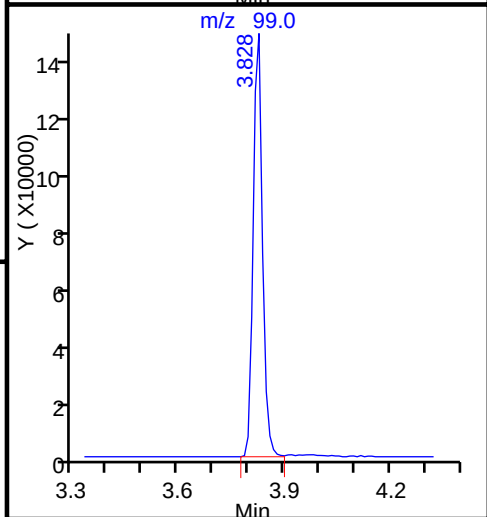
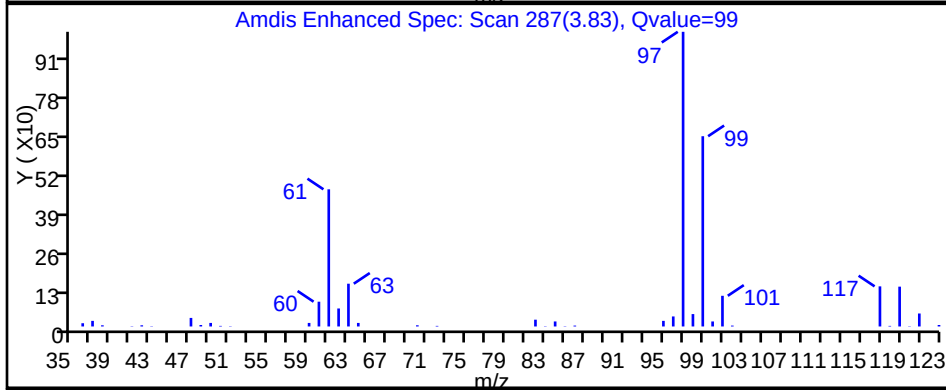
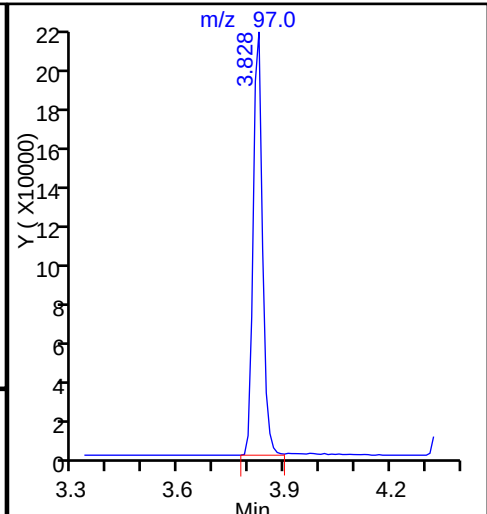
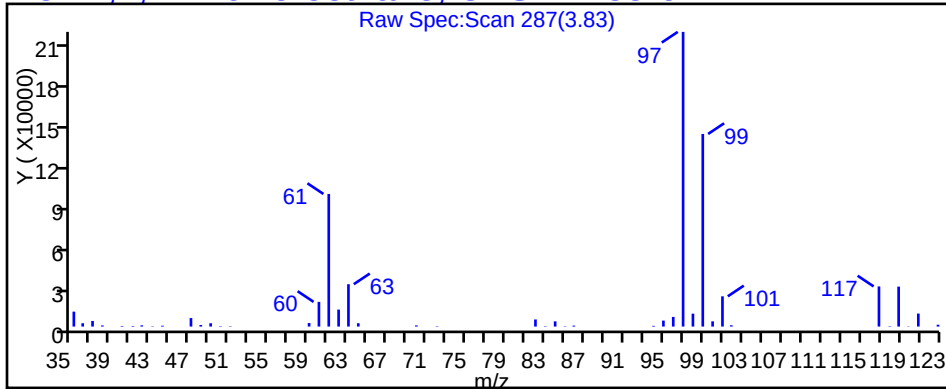
Dil. Factor: 50.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5292.D

Injection Date: 11-Sep-2014 20:57:30

Instrument ID: HP5975T

Lims ID: 480-66431-B-2

Lab Sample ID: 480-66431-2

Client ID: ERT-4I-82820142

Operator ID: CN

ALS Bottle#: 84

Worklist Smp#: 25

Purge Vol: 5.000 mL

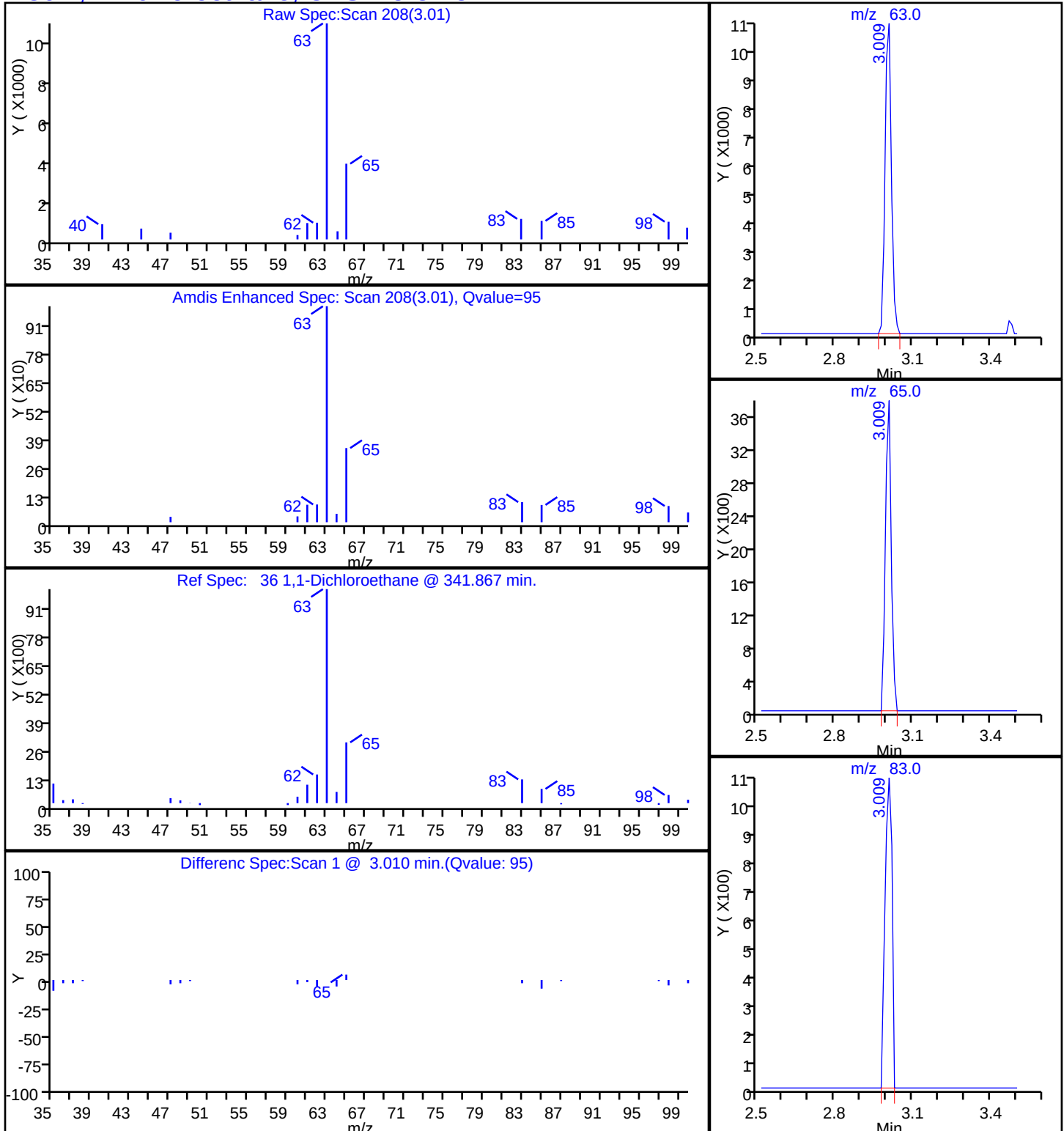
Dil. Factor: 50.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5292.D

Injection Date: 11-Sep-2014 20:57:30

Instrument ID: HP5975T

Lims ID: 480-66431-B-2

Lab Sample ID: 480-66431-2

Client ID: ERT-4I-82820142

Operator ID: CN

ALS Bottle#: 84

Worklist Smp#: 25

Purge Vol: 5.000 mL

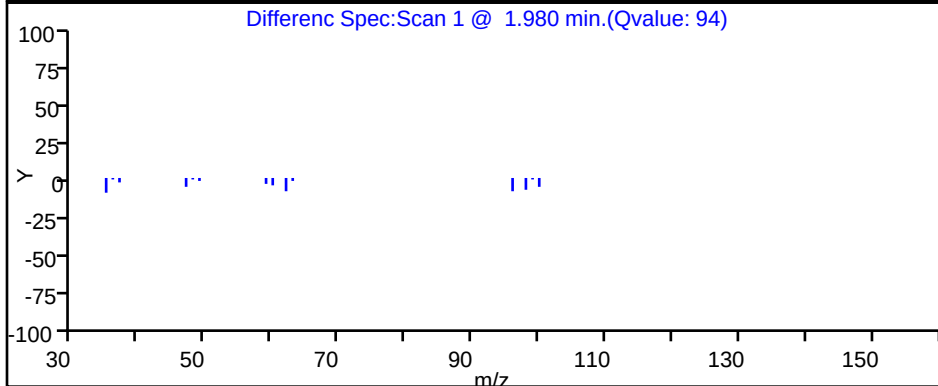
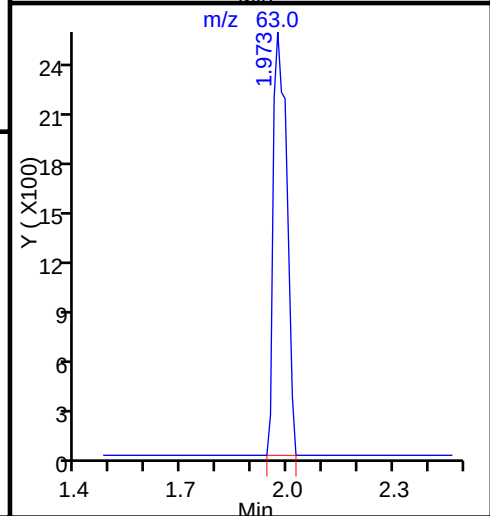
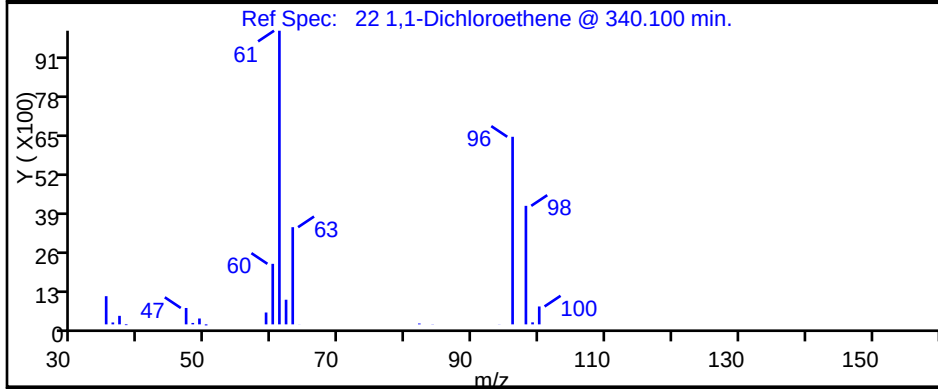
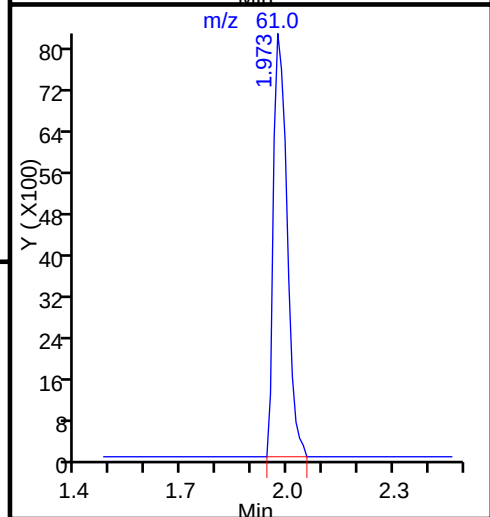
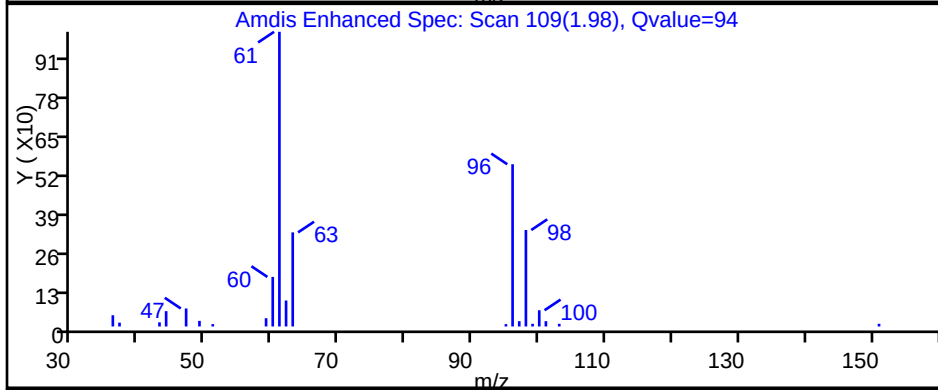
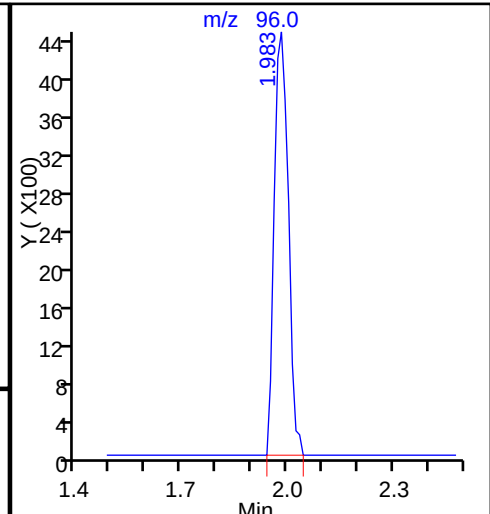
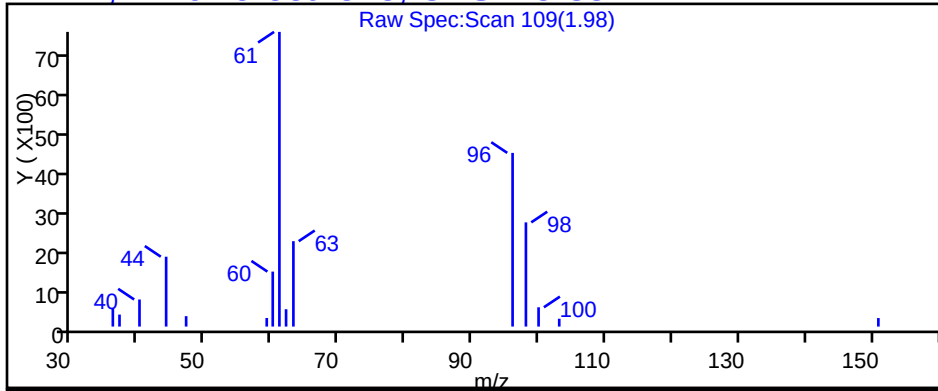
Dil. Factor: 50.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 16:30 Calibration End Date: 08/25/2014 18:54 Calibration ID: 19969

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-199422/8	T4567.D
Level 2	IC 480-199422/9	T4568.D
Level 3	IC 480-199422/10	T4569.D
Level 4	IC 480-199422/11	T4570.D
Level 5	ICIS 480-199422/12	T4571.D
Level 6	IC 480-199422/13	T4572.D
Level 7	IC 480-199422/14	T4573.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	+++++ 0.3719	0.4210 0.3683	0.3597	0.3749	0.3631	Ave		0.3765			0.1000	6.0		20.0			
Chloromethane	+++++ 0.4435	0.5289 0.4436	0.4261	0.4343	0.4274	Ave		0.4506			0.1000	8.7		20.0			
Vinyl chloride	0.4833 0.3888	0.4563 0.3837	0.3774	0.3892	0.3841	Ave		0.4090			0.1000	10.0		20.0			
Butadiene	+++++ 0.4840	0.5871 0.4620	0.5000	0.4941	0.4904	Ave		0.5029				8.6		20.0			
Bromomethane	+++++ 0.1296	0.1538 0.1392	0.0991	0.1277	0.1242	Ave		0.1289			0.1000	14.0		20.0			
Chloroethane	+++++ 0.1797	0.1769 0.1857	0.1454	0.1644	0.1738	Ave		0.1710			0.1000	8.4		20.0			
Trichlorofluoromethane	+++++ 0.3689	0.3637 0.3752	0.3235	0.3552	0.3671	Ave		0.3589			0.1000	5.2		20.0			
Dichlorofluoromethane	+++++ 0.3653	0.4010 0.3774	0.3314	0.3547	0.3547	Ave		0.3641				6.5		20.0			
Ethyl ether	+++++ 0.2894	0.3147 0.2905	0.2934	0.2828	0.2947	Ave		0.2943				3.7		20.0			
Acrolein	+++++ 0.0556	0.0606 0.0611	0.0500	0.0522	0.0615	Ave		0.0568				8.8		20.0			
1,1-Dichloroethene	+++++ 0.2305	0.2636 0.2245	0.2307	0.2176	0.2255	Ave		0.2321			0.1000	7.0		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2558	0.2623 0.2462	0.2546	0.2328	0.2464	Ave		0.2497			0.1000	4.1		20.0			
Acetone	+++++ 0.1449	0.1546 0.1367	0.1384	0.1344	0.1506	Ave		0.1433			0.1000	5.7		20.0			
Iodomethane	+++++ 0.4067	0.3863 0.4040	0.3692	0.3866	0.3962	Ave		0.3915				3.5		20.0			

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 Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 16:30 Calibration End Date: 08/25/2014 18:54 Calibration ID: 19969

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 disulfide	++++ 0.8848	1.0002 0.8963	0.8197	0.8312	0.8578	Ave		0.8817			0.1000	7.4		20.0			
Allyl chloride	++++ 0.5478	0.5215 0.5388	0.4533	0.4900	0.5113	Ave		0.5104				6.8		20.0			
Methyl acetate	++++ 0.4418	0.4718 0.4444	0.4122	0.4272	0.4303	Ave		0.4380			0.1000	4.6		20.0			
Methylene Chloride	++++ 0.2979	0.5418 0.2916	0.3204	0.3170	0.2972	Lin1	0.2384	0.2899			0.1000				1.0000		0.9900
2-Methyl-2-propanol	++++ 0.0489	0.0467 0.0557	0.0460	0.0473	0.0500	Ave		0.0491				7.3		20.0			
trans-1,2-Dichloroethene	++++ 0.2793	0.2992 0.2781	0.2751	0.2714	0.2806	Ave		0.2806			0.1000	3.5		20.0			
Methyl tert-butyl ether	++++ 0.9273	1.0107 0.9226	0.8889	0.9109	0.9030	Ave		0.9272			0.1000	4.7		20.0			
Acrylonitrile	0.1629 0.1728	0.2041 0.1798	0.1859	0.1782	0.1844	Ave		0.1812				7.0		20.0			
Hexane	++++ 0.5438	0.6648 0.5222	0.5347	0.5218	0.5205	Ave		0.5513				10.0		20.0			
1,1-Dichloroethane	++++ 0.5695	0.6531 0.5628	0.5586	0.5555	0.5578	Ave		0.5762			0.2000	6.6		20.0			
Vinyl acetate	++++ 0.4142	0.3719 0.4414	0.3803	0.3697	0.3971	Ave		0.3958				7.1		20.0			
2,2-Dichloropropane	++++ 0.2549	0.3137 0.2486	0.2545	0.2452	0.2422	Ave		0.2599				10.0		20.0			
cis-1,2-Dichloroethene	++++ 0.3060	0.3162 0.2897	0.2950	0.2929	0.2965	Ave		0.2994			0.1000	3.3		20.0			
2-Butanone (MEK)	++++ 0.2460	0.2494 0.2491	0.2279	0.2372	0.2434	Ave		0.2422			0.1000	3.4		20.0			
Chlorobromomethane	++++ 0.1503	0.1655 0.1497	0.1468	0.1491	0.1516	Ave		0.1522				4.4		20.0			
Tetrahydrofuran	++++ 0.1618	0.2014 0.1642	0.1668	0.1636	0.1644	Ave		0.1704				9.0		20.0			
Chloroform	++++ 0.4995	0.5567 0.4990	0.4913	0.4936	0.4868	Ave		0.5045			0.2000	5.2		20.0			
Cyclohexane	++++ 0.6581	0.6864 0.6457	0.6671	0.6379	0.6390	Ave		0.6557			0.1000	2.9		20.0			
1,1,1-Trichloroethane	++++ 0.3864	0.3724 0.3823	0.3576	0.3627	0.3695	Ave		0.3718			0.1000	3.0		20.0			
Carbon tetrachloride	++++ 0.3198	0.3240 0.3286	0.2917	0.2894	0.2999	Ave		0.3089			0.1000	5.6		20.0			

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 Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 16:30 Calibration End Date: 08/25/2014 18:54 Calibration ID: 19969

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-Dichloropropene	+++++ 0.3741	0.4141 0.3654	0.3597	0.3559	0.3660	Ave		0.3725				5.7		20.0			
Benzene	+++++ 1.1111	1.2962 1.1040	1.1087	1.0804	1.0994	Ave		1.1333			0.5000	7.1		20.0			
1,2-Dichloroethane	+++++ 0.4407	0.4642 0.4362	0.4267	0.4271	0.4335	Ave		0.4381			0.1000	3.2		20.0			
Isobutyl alcohol	+++++ 0.0183	0.0152 0.0229	0.0146	0.0156	0.0197	Ave		0.0177				18.0		20.0			
n-Heptane	+++++ 0.7142	0.7423 0.6435	0.5956	0.6508	0.6144	Ave		0.6601				8.6		20.0			
Trichloroethene	+++++ 0.2770	0.3136 0.2754	0.2597	0.2647	0.2690	Ave		0.2766			0.2000	7.0		20.0			
Methylcyclohexane	+++++ 0.5087	0.4935 0.4876	0.4866	0.4834	0.4879	Ave		0.4913			0.1000	1.9		20.0			
1,2-Dichloropropane	+++++ 0.3097	0.3351 0.3059	0.3075	0.3026	0.3094	Ave		0.3117			0.1000	3.8		20.0			
Dibromomethane	+++++ 0.1801	0.1883 0.1801	0.1662	0.1762	0.1785	Ave		0.1782			0.1000	4.0		20.0			
1,4-Dioxane	+++++ 0.0048	0.0022 0.0049	0.0045	0.0047	0.0051	Lin1	-0.052	0.0050							0.9990		0.9900
Bromodichloromethane	+++++ 0.3556	0.3848 0.3642	0.3330	0.3366	0.3468	Ave		0.3535			0.2000	5.4		20.0			
2-Chloroethyl vinyl ether	+++++ 0.2286	0.2235 0.2311	0.2024	0.2167	0.2216	Ave		0.2206				4.7		20.0			
cis-1,3-Dichloropropene	0.2951 0.4056	0.3957 0.4244	0.3438	0.3617	0.3826	Ave		0.3727			0.2000	12.0		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.7018	0.8204 0.7058	0.6994	0.7019	0.7244	Ave		0.7256			0.1000	6.5		20.0			
Toluene	+++++ 0.8978	1.0239 0.9172	0.8996	0.8944	0.9017	Ave		0.9224			0.4000	5.5		20.0			
trans-1,3-Dichloropropene	0.3327 0.4710	0.3811 0.5017	0.3795	0.4045	0.4431	Ave		0.4162			0.1000	14.0		20.0			
Ethyl methacrylate	+++++ 0.5521	0.5160 0.5707	0.4906	0.5105	0.5454	Ave		0.5309				5.7		20.0			
1,1,2-Trichloroethane	+++++ 0.3037	0.3561 0.3085	0.2905	0.2965	0.3101	Ave		0.3109			0.1000	7.5		20.0			
Tetrachloroethene	+++++ 0.3721	0.4508 0.3773	0.3856	0.3841	0.3797	Ave		0.3916			0.2000	7.5		20.0			
1,3-Dichloropropane	+++++ 0.6030	0.6592 0.6188	0.5891	0.6091	0.6322	Ave		0.6186				4.0		20.0			

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 Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422
SDG No.: _____
Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 08/25/2014 16:30 Calibration End Date: 08/25/2014 18:54 Calibration ID: 19969

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								
2-Hexanone	++++ 0.5027	0.5430 0.5113	0.4951	0.5154	0.5309	Ave		0.5164			0.1000	3.4		20.0			
Dibromochloromethane	++++ 0.3386	0.3175 0.3579	0.2728	0.2995	0.3246	Ave		0.3185			0.1000	9.4		20.0			
1,2-Dibromoethane	++++ 0.3670	0.3960 0.3795	0.3445	0.3482	0.3605	Ave		0.3660				5.3		20.0			
Chlorobenzene	++++ 0.9943	1.1882 1.0119	1.0426	1.0089	1.0276	Ave		1.0456			0.5000	6.9		20.0			
1,1,1,2-Tetrachloroethane	++++ 0.3124	0.3627 0.3238	0.2803	0.2896	0.3078	Ave		0.3128				9.3		20.0			
Ethylbenzene	++++ 1.7395	1.9551 1.7611	1.7372	1.7170	1.7739	Ave		1.7806			0.1000	4.9		20.0			
m,p-Xylene	++++ 0.6754	0.7524 0.6813	0.6821	0.6696	0.6921	Ave		0.6921			0.1000	4.4		20.0			
o-Xylene	++++ 0.6667	0.6791 0.6536	0.6613	0.6509	0.6739	Ave		0.6642			0.3000	1.7		20.0			
Styrene	++++ 1.1445	1.1606 1.1844	1.1127	1.1201	1.1565	Ave		1.1464			0.3000	2.3		20.0			
Bromoform	++++ 0.2008	0.1896 0.2213	0.1655	0.1661	0.1808	Ave		0.1874			0.1000	11.0		20.0			
Isopropylbenzene	++++ 3.3664	3.5731 3.2724	3.3157	3.3214	3.3407	Ave		3.3650			0.1000	3.2		20.0			
Bromobenzene	++++ 0.7733	0.9031 0.7865	0.7754	0.7785	0.7630	Ave		0.7966				6.6		20.0			
1,1,2,2-Tetrachloroethane	++++ 1.0372	1.0731 1.0304	1.0132	1.0666	1.0467	Ave		1.0445			0.3000	2.2		20.0			
N-Propylbenzene	++++ 3.9247	4.2123 3.8798	3.8156	3.8841	3.9128	Ave		3.9382				3.5		20.0			
1,2,3-Trichloropropane	++++ 0.3261	0.3767 0.3266	0.3095	0.3202	0.3198	Ave		0.3298				7.2		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.1838	0.0841 0.2279	0.0664	0.0905	0.1240	Qua	-0.361	0.1333	0.0009887						0.9990		0.9900
2-Chlorotoluene	++++ 0.7513	0.8146 0.7513	0.7372	0.7320	0.7554	Ave		0.7570				3.9		20.0			
1,3,5-Trimethylbenzene	++++ 2.8344	2.8986 2.7754	2.7050	2.7956	2.8317	Ave		2.8068				2.3		20.0			
4-Chlorotoluene	++++ 2.7107	2.9552 2.7075	2.6576	2.7545	2.7207	Ave		2.7510				3.8		20.0			
tert-Butylbenzene	++++ 0.5714	0.6402 0.5548	0.5669	0.5475	0.5705	Ave		0.5752				5.8		20.0			

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 Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 16:30 Calibration End Date: 08/25/2014 18:54 Calibration ID: 19969

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-Trimethylbenzene	++++ 2.9643	3.1488 2.8703	2.7976	2.9289	2.9403	Ave		2.9417				4.0		20.0			
sec-Butylbenzene	++++ 3.5997	3.7831 3.3688	3.6134	3.6455	3.6212	Ave		3.6053				3.7		20.0			
1,3-Dichlorobenzene	++++ 1.5210	1.6327 1.5222	1.5602	1.5263	1.5303	Ave		1.5488			0.6000	2.8		20.0			
4-Isopropyltoluene	++++ 3.0703	3.2485 2.8763	2.9718	3.1341	3.0714	Ave		3.0621				4.2		20.0			
1,4-Dichlorobenzene	++++ 1.5583	1.6616 1.5447	1.5312	1.5925	1.5602	Ave		1.5748			0.5000	3.0		20.0			
n-Butylbenzene	++++ 2.8610	2.9495 2.6349	2.8611	2.8458	2.8177	Ave		2.8283				3.7		20.0			
1,2-Dichlorobenzene	++++ 1.5003	1.6691 1.4911	1.4998	1.5062	1.5099	Ave		1.5294			0.4000	4.5		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1996	0.1499 0.2027	0.1623	0.1776	0.1786	Ave		0.1785			0.0500	12.0		20.0			
1,2,4-Trichlorobenzene	++++ 1.0600	1.1335 0.8988	0.9856	1.0339	1.0234	Ave		1.0225			0.2000	7.6		20.0			
Hexachlorobutadiene	0.3858 0.4987	0.5751 0.3393	0.5167	0.5259	0.4935	Ave		0.4765				17.0		20.0			
Naphthalene	++++ 3.3168	3.2728 3.0850	2.9613	3.2038	3.1923	Ave		3.1720				4.1		20.0			
1,2,3-Trichlorobenzene	++++ 0.9989	1.0626 0.8207	0.9654	1.0045	0.9681	Ave		0.9700				8.4		20.0			
Dibromofluoromethane (Surr)	0.2642 0.2636	0.2600 0.2571	0.2546	0.2580	0.2607	Ave		0.2597				1.3		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3366 0.3356	0.3390 0.3303	0.3361	0.3325	0.3256	Ave		0.3337				1.4		20.0			
Toluene-d8 (Surr)	1.2679 1.2940	1.2842 1.3180	1.2987	1.2894	1.3118	Ave		1.2949				1.3		20.0			
4-Bromofluorobenzene (Surr)	0.3892 0.3803	0.3928 0.3928	0.3961	0.3930	0.4014	Ave		0.3922				1.6		20.0			

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 Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 16:30 Calibration End Date: 08/25/2014 18:54 Calibration ID: 19969

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-199422/8	T4567.D
Level 2	IC 480-199422/9	T4568.D
Level 3	IC 480-199422/10	T4569.D
Level 4	IC 480-199422/11	T4570.D
Level 5	ICIS 480-199422/12	T4571.D
Level 6	IC 480-199422/13	T4572.D
Level 7	IC 480-199422/14	T4573.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
Dichlorodifluoromethane	FB	Ave	++++ 486798	10966 1011344	47072	99419	242956	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloromethane	FB	Ave	++++ 580526	13776 1217978	55759	115171	285957	++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl chloride	FB	Ave	5166 509030	11885 1053669	49388	103200	256984	0.400 50.0	1.00 100	5.00	10.0	25.0
Butadiene	FB	Ave	++++ 633592	15291 1268404	65431	131011	328113	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromomethane	FB	Ave	++++ 169619	4006 382167	12971	33866	83118	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroethane	FB	Ave	++++ 235278	4607 510013	19024	43601	116303	++++ 50.0	1.00 100	5.00	10.0	25.0
Trichlorofluoromethane	FB	Ave	++++ 482890	9472 1030094	42330	94197	245616	++++ 50.0	1.00 100	5.00	10.0	25.0
Dichlorofluoromethane	FB	Ave	++++ 478252	10444 1036123	43370	94046	237318	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl ether	FB	Ave	++++ 378888	8196 797739	38396	74989	197202	++++ 50.0	1.00 100	5.00	10.0	25.0
Acrolein	FB	Ave	++++ 364180	7897 839235	32697	69197	205762	++++ 250	5.00 500	25.0	50.0	125
1,1-Dichloroethene	FB	Ave	++++ 301785	6866 616485	30183	57694	150911	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 334926	6833 675877	33315	61720	164886	++++ 50.0	1.00 100	5.00	10.0	25.0
Acetone	FB	Ave	++++ 948771	20137 1876059	90525	178247	503969	++++ 250	5.00 500	25.0	50.0	125
Iodomethane	FB	Ave	++++ 532361	10061 1109139	48311	102515	265115	++++ 50.0	1.00 100	5.00	10.0	25.0
Carbon disulfide	FB	Ave	++++ 1158356	26051 2461016	107268	220417	573972	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 16:30 Calibration End Date: 08/25/2014 18:54 Calibration ID: 19969

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
Allyl chloride	FB	Ave	++++ 717087	13582 1479336	59319	129930	342100	++++ 50.0	1.00 100	5.00	10.0	25.0
Methyl acetate	FB	Ave	++++ 2891871	61449 6100714	269707	566472	1439573	++++ 250	5.00 500	25.0	50.0	125
Methylene Chloride	FB	Lin1	++++ 389984	14112 800551	41922	84048	198849	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methyl-2-propanol	FB	Ave	++++ 640482	12161 1530609	60159	125350	334740	++++ 500	10.0 1000	50.0	100	250
trans-1,2-Dichloroethene	FB	Ave	++++ 365592	7792 763472	35993	71956	187762	++++ 50.0	1.00 100	5.00	10.0	25.0
Methyl tert-butyl ether	FB	Ave	++++ 1213943	26325 2533285	116326	241542	604188	++++ 50.0	1.00 100	5.00	10.0	25.0
Acrylonitrile	FB	Ave	17417 2261958	53165 4937972	243293	472444	1233663	4.00 500	10.0 1000	50.0	100	250
Hexane	FB	Ave	++++ 711919	17315 1433855	69974	138375	348275	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethane	FB	Ave	++++ 745514	17010 1545375	73096	147305	373213	++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl acetate	FB	Ave	++++ 1084441	19372 2423866	99531	196096	531380	++++ 100	2.00 200	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	++++ 333745	8170 682701	33307	65009	162042	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,2-Dichloroethene	FB	Ave	++++ 400568	8236 795465	38604	77673	198418	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Butanone (MEK)	FB	Ave	++++ 1610045	32479 3420463	149110	314487	814303	++++ 250	5.00 500	25.0	50.0	125
Chlorobromomethane	FB	Ave	++++ 196714	4310 411134	19212	39541	101425	++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrahydrofuran	FB	Ave	++++ 423752	10492 901826	43651	86774	219994	++++ 100	2.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	++++ 653945	14500 1370052	64295	130884	325721	++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexane	FB	Ave	++++ 861540	17879 1772943	87293	169165	427531	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1-Trichloroethane	FB	Ave	++++ 505805	9699 1049771	46797	96175	247247	++++ 50.0	1.00 100	5.00	10.0	25.0
Carbon tetrachloride	FB	Ave	++++ 418612	8440 902306	38167	76748	200692	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloropropene	FB	Ave	++++ 489776	10786 1003164	47072	94368	244878	++++ 50.0	1.00 100	5.00	10.0	25.0
Benzene	FB	Ave	++++ 1454496	33762 3031177	145081	286494	735580	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 16:30 Calibration End Date: 08/25/2014 18:54 Calibration ID: 19969

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-Dichloroethane	FB	Ave	++++ 576943	12091 1197646	55842	113245	290023	++++ 50.0	1.00 100	5.00	10.0	25.0
Isobutyl alcohol	FB	Ave	++++ 599938	9927 1569465	47920	103712	328753	++++ 1250	25.0 2500	125	250	625
n-Heptane	FB	Ave	++++ 935011	19333 1766936	77945	172584	411074	++++ 50.0	1.00 100	5.00	10.0	25.0
Trichloroethene	FB	Ave	++++ 362594	8167 756219	33990	70201	179959	++++ 50.0	1.00 100	5.00	10.0	25.0
Methylcyclohexane	FB	Ave	++++ 665983	12855 1338748	63673	128181	326431	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloropropane	FB	Ave	++++ 405372	8728 840011	40238	80249	207001	++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromomethane	FB	Ave	++++ 235796	4904 494641	21744	46717	119419	++++ 50.0	1.00 100	5.00	10.0	25.0
1,4-Dioxane	CBZ	Lin1	++++ 92582	817 192138	8392	18135	48211	++++ 1000	20.0 2000	100	200	500
Bromodichloromethane	FB	Ave	++++ 465505	10022 1000121	43573	89266	232042	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 299242	5822 634536	26481	57459	148261	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	3155 530934	10307 1165335	44992	95906	256029	0.400 50.0	1.00 100	5.00	10.0	25.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	++++ 3379620	77527 6901493	326439	679024	1709084	++++ 250	5.00 500	25.0	50.0	125
Toluene	CBZ	Ave	++++ 864639	19351 1793653	83985	173048	425501	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,3-Dichloropropene	CBZ	Ave	2552 453608	7203 981061	35426	78259	209097	0.400 50.0	1.00 100	5.00	10.0	25.0
Ethyl methacrylate	CBZ	Ave	++++ 531757	9753 1115994	45803	98770	257376	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloroethane	CBZ	Ave	++++ 292470	6730 603220	27116	57367	146327	++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrachloroethene	CBZ	Ave	++++ 358407	8519 737850	35997	74309	179160	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichloropropane	CBZ	Ave	++++ 580727	12458 1210202	54995	117861	298313	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Hexanone	CBZ	Ave	++++ 2420884	51309 4999219	231122	498651	1252580	++++ 250	5.00 500	25.0	50.0	125
Dibromochloromethane	CBZ	Ave	++++ 326122	6000 699835	25470	57958	153187	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromoethane	CBZ	Ave	++++ 353428	7485 742232	32163	67362	170133	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 16:30 Calibration End Date: 08/25/2014 18:54 Calibration ID: 19969

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
Chlorobenzene	CBZ	Ave	++++ 957599	22456 1978805	97336	195202	484895	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	++++ 300866	6855 633273	26168	56027	145264	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethylbenzene	CBZ	Ave	++++ 1675262	36951 3443991	162178	332221	837045	++++ 50.0	1.00 100	5.00	10.0	25.0
m,p-Xylene	CBZ	Ave	++++ 650425	14221 1332325	63673	129560	326591	++++ 50.0	1.00 100	5.00	10.0	25.0
o-Xylene	CBZ	Ave	++++ 642042	12835 1278245	61738	125934	317981	++++ 50.0	1.00 100	5.00	10.0	25.0
Styrene	CBZ	Ave	++++ 1102276	21934 2316107	103875	216719	545716	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromoform	CBZ	Ave	++++ 193385	3584 432766	15451	32137	85322	++++ 50.0	1.00 100	5.00	10.0	25.0
Isopropylbenzene	DCB	Ave	++++ 1718399	36595 3414908	169397	338311	860926	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromobenzene	DCB	Ave	++++ 394747	9249 820753	39617	79292	196620	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2,2-Tetrachloroethane	DCB	Ave	++++ 529428	10990 1075273	51764	108645	269730	++++ 50.0	1.00 100	5.00	10.0	25.0
N-Propylbenzene	DCB	Ave	++++ 2003392	43141 4048687	194937	395625	1008349	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichloropropane	DCB	Ave	++++ 166482	3858 340821	15812	32613	82408	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,4-Dichloro-2-butene	DCB	Qua	++++ 93821	861 237779	3390	9215	31967	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorotoluene	DCB	Ave	++++ 383529	8343 784008	37661	74557	194682	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trimethylbenzene	DCB	Ave	++++ 1446812	29687 2896199	138198	284755	729738	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorotoluene	DCB	Ave	++++ 1383687	30266 2825386	135775	280562	701138	++++ 50.0	1.00 100	5.00	10.0	25.0
tert-Butylbenzene	DCB	Ave	++++ 291668	6557 578941	28962	55766	147030	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trimethylbenzene	DCB	Ave	++++ 1513168	32249 2995309	142928	298332	757726	++++ 50.0	1.00 100	5.00	10.0	25.0
sec-Butylbenzene	DCB	Ave	++++ 1837474	38745 3515467	184608	371325	933210	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichlorobenzene	DCB	Ave	++++ 776399	16722 1588504	79711	155468	394364	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Isopropyltoluene	DCB	Ave	++++ 1567268	33270 3001509	151828	319235	791531	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 16:30 Calibration End Date: 08/25/2014 18:54 Calibration ID: 19969

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
1,4-Dichlorobenzene	DCB	Ave	++++ 795431	17018 1612003	78226	162205	402077	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butylbenzene	DCB	Ave	++++ 1460416	30208 2749611	146173	289871	726139	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichlorobenzene	DCB	Ave	++++ 765831	17094 1556070	76625	153417	389105	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	++++ 101901	1535 211557	8292	18094	46036	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trichlorobenzene	DCB	Ave	++++ 541091	11609 937934	50354	105308	263728	++++ 50.0	1.00 100	5.00	10.0	25.0
Hexachlorobutadiene	DCB	Ave	1531 254576	5890 354108	26400	53566	127190	0.400 50.0	1.00 100	5.00	10.0	25.0
Naphthalene	DCB	Ave	++++ 1693090	33519 3219291	151292	326334	822671	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichlorobenzene	DCB	Ave	++++ 509893	10883 856479	49321	102318	249488	++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromofluoromethane (Surr)	FB	Ave	176542 172512	169278 176479	166584	171036	174444	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	224868 219664	220741 226719	219930	220394	217854	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	607828 623118	606768 644346	606208	623687	619008	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	186560 183152	185599 192046	184866	190114	189398	25.0 25.0	25.0 25.0	25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4567.D
 Lims ID: IC 0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 25-Aug-2014 16:30:30 ALS Bottle#: 1 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.4
 Misc. Info.: 480-0034843-008
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 13:44:37 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: nguyendudziakng

Date: 26-Aug-2014 13:44:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.335	0.001	98	668120	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	89	479390	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	248016	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	176542	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	224868	25.0	25.2	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	607828	25.0	24.5	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	91	186560	25.0	24.8	
11 Dichlorodifluoromethane	85		0.916					ND	
13 Chloromethane	50		1.019					ND	
14 Vinyl chloride	62	1.102	1.102	0.000	96	5166	0.4000	0.4727	
151 Butadiene	54		1.123					ND	
15 Bromomethane	94		1.330					ND	
16 Chloroethane	64		1.403					ND	
17 Trichlorofluoromethane	101		1.569					ND	
18 Dichlorofluoromethane	67		1.569					ND	
19 Ethyl ether	59		1.797					ND	
21 Acrolein	56		1.952					ND	
22 1,1-Dichloroethene	96		1.962					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		1.983					ND	
23 Acetone	43		2.108					ND	
24 Iodomethane	142		2.108					ND	
25 Carbon disulfide	76		2.128					ND	
27 3-Chloro-1-propene	41		2.304					ND	
28 Methyl acetate	43		2.367					ND	
30 Methylene Chloride	84		2.439					ND	
31 2-Methyl-2-propanol	59		2.626					ND	
32 trans-1,2-Dichloroethene	96		2.636					ND	
33 Methyl tert-butyl ether	73		2.636					ND	
34 Acrylonitrile	53	2.709	2.709	0.000	95	17417	4.00	3.60	
35 Hexane	57		2.802					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63		2.999					ND	
39 Vinyl acetate	43		3.071					ND	
42 2,2-Dichloropropane	77		3.444					ND	
43 cis-1,2-Dichloroethene	96		3.475					ND	
44 2-Butanone (MEK)	43		3.527					ND	
47 Chlorobromomethane	128		3.672					ND	
48 Tetrahydrofuran	42		3.703					ND	
50 Chloroform	83		3.735					ND	
52 Cyclohexane	56		3.817					ND	
51 1,1,1-Trichloroethane	97		3.817					ND	
53 Carbon tetrachloride	117		3.931					ND	
54 1,1-Dichloropropene	75		3.942					ND	
55 Benzene	78		4.118					ND	
57 1,2-Dichloroethane	62		4.170					ND	
56 Isobutyl alcohol	43		4.170					ND	
59 n-Heptane	43		4.263					ND	
60 Trichloroethene	95		4.605					ND	
62 Methylcyclohexane	83		4.688					ND	
63 1,2-Dichloropropane	63		4.792					ND	
65 Dibromomethane	93		4.895					ND	
66 1,4-Dioxane	88		4.926					ND	
67 Dichlorobromomethane	83		5.020					ND	
69 2-Chloroethyl vinyl ether	63		5.258					ND	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	88	3155	0.4000	0.3167	
72 4-Methyl-2-pentanone (MIBK)	43		5.476					ND	
73 Toluene	92		5.569					ND	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	89	2552	0.4000	0.3197	
77 Ethyl methacrylate	69		5.828					ND	
78 1,1,2-Trichloroethane	83		5.931					ND	
79 Tetrachloroethene	166		5.963					ND	
80 1,3-Dichloropropane	76		6.045					ND	
81 2-Hexanone	43		6.118					ND	
82 Chlorodibromomethane	129		6.222					ND	
83 Ethylene Dibromide	107		6.294					ND	
86 Chlorobenzene	112		6.657					ND	
89 1,1,1,2-Tetrachloroethane	131		6.729					ND	
88 Ethylbenzene	91		6.729					ND	
90 m-Xylene & p-Xylene	106		6.812					ND	
91 o-Xylene	106		7.134					ND	
92 Styrene	104		7.154					ND	
93 Bromoform	173		7.331					ND	
95 Isopropylbenzene	105		7.413					ND	
97 Bromobenzene	156		7.672					ND	
98 1,1,2,2-Tetrachloroethane	83		7.724					ND	
99 N-Propylbenzene	91		7.745					ND	
100 1,2,3-Trichloropropane	110		7.755					ND	
101 trans-1,4-Dichloro-2-buten	53		7.766					ND	
105 2-Chlorotoluene	126		7.828					ND	
104 1,3,5-Trimethylbenzene	105		7.890					ND	
102 4-Chlorotoluene	91		7.911					ND	
106 tert-Butylbenzene	134		8.149					ND	
107 1,2,4-Trimethylbenzene	105		8.191					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105		8.325					ND	
110 1,3-Dichlorobenzene	146		8.429					ND	
111 4-Isopropyltoluene	119		8.439					ND	
113 1,4-Dichlorobenzene	146		8.502					ND	
115 n-Butylbenzene	91		8.781					ND	
116 1,2-Dichlorobenzene	146		8.812					ND	
117 1,2-Dibromo-3-Chloropropan	75		9.486					ND	
119 1,2,4-Trichlorobenzene	180		10.118					ND	
120 Hexachlorobutadiene	225	10.242	10.232	0.010	89	1531	0.4000	0.3239	
121 Naphthalene	128		10.336					ND	
122 1,2,3-Trichlorobenzene	180		10.533					ND	
S 123 1,3-Dichloropropene, Total	1				0			0.6365	
S 124 1,2-Dichloroethene, Total	1		30.000					0	
S 125 Total BTEX	1		30.000					0	
S 126 Xylenes, Total	1		30.000					0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

8260 CORP mix_00019	Amount Added: 0.40	Units: uL	
GAS CORP mix_00043	Amount Added: 0.40	Units: uL	
T_8260_IS_00079	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00078	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4567.D

Injection Date: 25-Aug-2014 16:30:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 0.4

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

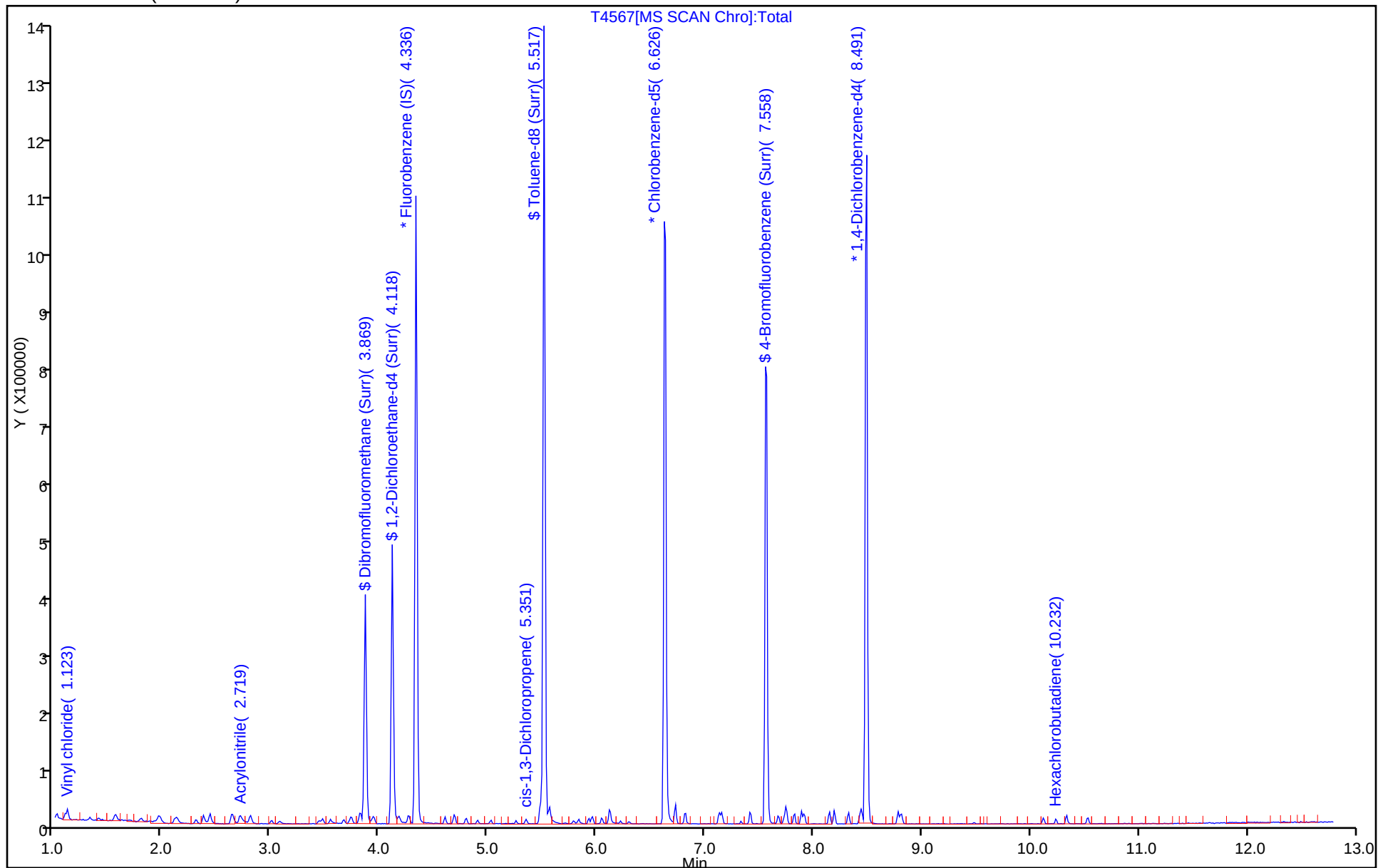
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4568.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 25-Aug-2014 16:54:30 ALS Bottle#: 2 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0034843-009
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:09:24 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 26-Aug-2014 09:39:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.336	-0.001	98	651162	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	89	472490	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	256042	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	169278	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	220741	25.0	25.4	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	606768	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	90	185599	25.0	25.0	
11 Dichlorodifluoromethane	85	0.905	0.916	-0.011	99	10966	1.00	1.12	
13 Chloromethane	50	1.019	1.019	0.000	99	13776	1.00	1.17	
14 Vinyl chloride	62	1.102	1.102	0.000	97	11885	1.00	1.12	
151 Butadiene	54	1.123	1.123	0.000	93	15291	1.00	1.17	
15 Bromomethane	94	1.320	1.320	0.000	92	4006	1.00	1.19	
16 Chloroethane	64	1.403	1.403	0.000	98	4607	1.00	1.03	
17 Trichlorofluoromethane	101	1.558	1.569	-0.011	80	9472	1.00	1.01	
18 Dichlorofluoromethane	67	1.558	1.569	-0.011	95	10444	1.00	1.10	
19 Ethyl ether	59	1.797	1.797	-0.001	97	8196	1.00	1.07	
21 Acrolein	56	1.952	1.952	0.000	89	7897	5.00	5.33	
22 1,1-Dichloroethene	96	1.962	1.973	-0.011	95	6866	1.00	1.14	
20 1,1,2-Trichloro-1,2,2-trif	101	1.973	1.983	-0.010	63	6833	1.00	1.05	
24 Iodomethane	142	2.107	2.107	0.000	73	10061	1.00	0.9867	
23 Acetone	43	2.107	2.107	0.000	99	20137	5.00	5.40	
25 Carbon disulfide	76	2.128	2.128	0.000	98	26051	1.00	1.13	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	91	13582	1.00	1.02	
28 Methyl acetate	43	2.377	2.367	0.010	99	61449	5.00	5.39	
30 Methylene Chloride	84	2.439	2.439	0.000	98	14112	1.00	1.05	
33 Methyl tert-butyl ether	73	2.646	2.636	0.010	98	26325	1.00	1.09	
31 2-Methyl-2-propanol	59	2.657	2.636	0.021	48	12161	10.0	9.51	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	91	7792	1.00	1.07	
34 Acrylonitrile	53	2.708	2.709	-0.001	95	53165	10.0	11.3	
35 Hexane	57	2.802	2.802	0.000	92	17315	1.00	1.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	96	17010	1.00	1.13	
39 Vinyl acetate	43	3.082	3.071	0.011	96	19372	2.00	1.88	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	88	8170	1.00	1.21	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	82	8236	1.00	1.06	
44 2-Butanone (MEK)	43	3.548	3.538	0.010	98	32479	5.00	5.15	
47 Chlorobromomethane	128	3.672	3.672	0.000	91	4310	1.00	1.09	
48 Tetrahydrofuran	42	3.724	3.703	0.021	89	10492	2.00	2.36	
50 Chloroform	83	3.734	3.734	0.000	94	14500	1.00	1.10	
52 Cyclohexane	56	3.817	3.817	0.000	92	17879	1.00	1.05	
51 1,1,1-Trichloroethane	97	3.828	3.817	0.011	73	9699	1.00	1.00	
53 Carbon tetrachloride	117	3.931	3.931	0.000	94	8440	1.00	1.05	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	93	10786	1.00	1.11	
55 Benzene	78	4.118	4.118	0.000	46	33762	1.00	1.14	
57 1,2-Dichloroethane	62	4.180	4.170	0.010	96	12091	1.00	1.06	
56 Isobutyl alcohol	43	4.190	4.180	0.010	62	9927	25.0	21.5	
59 n-Heptane	43	4.263	4.263	0.000	94	19333	1.00	1.12	
60 Trichloroethene	95	4.605	4.605	0.000	94	8167	1.00	1.13	
62 Methylcyclohexane	83	4.688	4.688	0.000	94	12855	1.00	1.00	
63 1,2-Dichloropropane	63	4.802	4.802	0.000	92	8728	1.00	1.08	
65 Dibromomethane	93	4.905	4.906	-0.001	97	4904	1.00	1.06	
66 1,4-Dioxane	88	4.957	4.937	0.020	9	817	20.0	19.2	
67 Dichlorobromomethane	83	5.019	5.020	-0.001	93	10022	1.00	1.09	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	92	5822	1.00	1.01	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	93	10307	1.00	1.06	
72 4-Methyl-2-pentanone (MIBK)	43	5.486	5.475	0.011	98	77527	5.00	5.65	
73 Toluene	92	5.569	5.569	0.000	96	19351	1.00	1.11	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	95	7203	1.00	0.9157	
77 Ethyl methacrylate	69	5.838	5.828	0.010	95	9753	1.00	0.9720	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	91	6730	1.00	1.15	
79 Tetrachloroethene	166	5.962	5.963	-0.001	92	8519	1.00	1.15	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	97	12458	1.00	1.07	
81 2-Hexanone	43	6.118	6.118	0.000	97	51309	5.00	5.26	
82 Chlorodibromomethane	129	6.222	6.222	0.000	91	6000	1.00	1.00	
83 Ethylene Dibromide	107	6.294	6.294	0.000	96	7485	1.00	1.08	
86 Chlorobenzene	112	6.657	6.657	0.000	92	22456	1.00	1.14	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	44	6855	1.00	1.16	
88 Ethylbenzene	91	6.729	6.729	0.000	98	36951	1.00	1.10	
90 m-Xylene & p-Xylene	106	6.823	6.823	0.000	0	14221	1.00	1.09	
91 o-Xylene	106	7.133	7.134	-0.001	96	12835	1.00	1.02	
92 Styrene	104	7.154	7.154	0.000	95	21934	1.00	1.01	
93 Bromoform	173	7.330	7.330	0.000	92	3584	1.00	1.01	
95 Isopropylbenzene	105	7.413	7.413	0.000	96	36595	1.00	1.06	
97 Bromobenzene	156	7.683	7.672	0.011	98	9249	1.00	1.13	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	94	10990	1.00	1.03	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	43141	1.00	1.07	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	85	3858	1.00	1.14	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	62	861	1.00	3.26	
105 2-Chlorotoluene	126	7.828	7.828	0.000	95	8343	1.00	1.08	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	94	29687	1.00	1.03	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	30266	1.00	1.07	
106 tert-Butylbenzene	134	8.149	8.149	0.000	94	6557	1.00	1.11	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	-0.001	97	32249	1.00	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.325	8.325	0.000	95	38745	1.00	1.05	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	96	16722	1.00	1.05	
111 4-Isopropyltoluene	119	8.450	8.439	0.011	97	33270	1.00	1.06	
113 1,4-Dichlorobenzene	146	8.501	8.501	0.000	93	17018	1.00	1.06	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	30208	1.00	1.04	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	94	17094	1.00	1.09	
117 1,2-Dibromo-3-Chloropropan	75	9.476	9.476	0.000	82	1535	1.00	0.8398	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	93	11609	1.00	1.11	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	94	5890	1.00	1.21	
121 Naphthalene	128	10.336	10.336	0.000	97	33519	1.00	1.03	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	95	10883	1.00	1.10	
S 125 Total BTEX	1				0			5.46	
S 126 Xylenes, Total	1				0			2.11	
S 123 1,3-Dichloropropene, Total	1				0			1.98	
S 124 1,2-Dichloroethene, Total	1				0			2.12	

Reagents:

8260 CORP mix_00019	Amount Added: 1.00	Units: uL	
GAS CORP mix_00043	Amount Added: 1.00	Units: uL	
T_8260_IS_00079	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00078	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4568.D

Injection Date: 25-Aug-2014 16:54:30

Instrument ID: HP5975T

Lims ID: IC

Operator ID: LH

Client ID:

Worklist Smp#: 9

Purge Vol: 5.000 mL

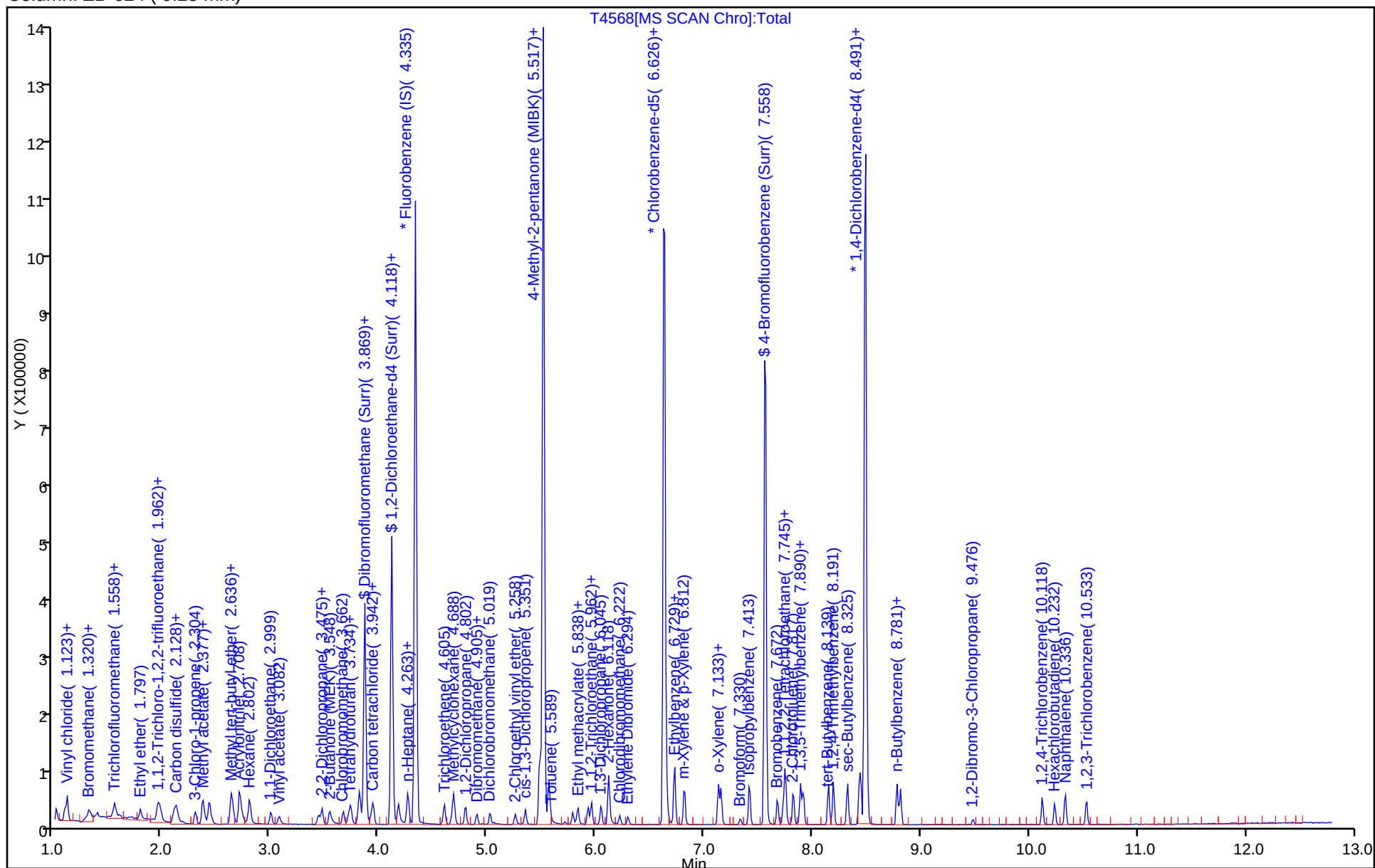
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4569.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 25-Aug-2014 17:18:30 ALS Bottle#: 3 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0034843-010
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:03:50 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 26-Aug-2014 09:40:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	654297	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	89	466774	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	255446	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	166584	25.0	24.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	219930	25.0	25.2	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	606208	25.0	25.1	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	91	184866	25.0	25.2	
11 Dichlorodifluoromethane	85	0.916	0.916	0.000	99	47072	5.00	4.78	
13 Chloromethane	50	1.030	1.019	0.011	99	55759	5.00	4.73	
14 Vinyl chloride	62	1.102	1.102	0.000	98	49388	5.00	4.61	
151 Butadiene	54	1.123	1.123	0.000	95	65431	5.00	4.97	
15 Bromomethane	94	1.320	1.330	-0.010	94	12971	5.00	3.84	
16 Chloroethane	64	1.403	1.403	0.000	97	19024	5.00	4.25	
17 Trichlorofluoromethane	101	1.558	1.569	-0.011	97	42330	5.00	4.51	
18 Dichlorofluoromethane	67	1.569	1.569	0.000	95	43370	5.00	4.55	
19 Ethyl ether	59	1.797	1.797	0.000	99	38396	5.00	4.99	
21 Acrolein	56	1.952	1.952	0.000	95	32697	25.0	22.0	
22 1,1-Dichloroethene	96	1.973	1.962	0.011	94	30183	5.00	4.97	
20 1,1,2-Trichloro-1,2,2-trif	101	1.973	1.983	-0.010	90	33315	5.00	5.10	
24 Iodomethane	142	2.107	2.108	-0.001	81	48311	5.00	4.72	
23 Acetone	43	2.107	2.108	-0.001	100	90525	25.0	24.1	
25 Carbon disulfide	76	2.128	2.128	0.000	100	107268	5.00	4.65	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	90	59319	5.00	4.44	
28 Methyl acetate	43	2.367	2.367	0.000	100	269707	25.0	23.5	
30 Methylene Chloride	84	2.439	2.439	0.000	98	41922	5.00	4.70	
31 2-Methyl-2-propanol	59	2.636	2.626	0.010	42	60159	50.0	48.4	M
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	92	35993	5.00	4.90	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	98	116326	5.00	4.79	
34 Acrylonitrile	53	2.709	2.709	-0.001	100	243293	50.0	51.3	
35 Hexane	57	2.812	2.802	0.010	96	69974	5.00	4.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	97	73096	5.00	4.85	
39 Vinyl acetate	43	3.071	3.071	0.000	97	99531	10.0	9.61	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	87	33307	5.00	4.90	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	83	38604	5.00	4.93	
44 2-Butanone (MEK)	43	3.538	3.527	0.011	98	149110	25.0	23.5	
47 Chlorobromomethane	128	3.672	3.672	0.000	92	19212	5.00	4.82	
48 Tetrahydrofuran	42	3.714	3.703	0.011	96	43651	10.0	9.79	
50 Chloroform	83	3.734	3.735	-0.001	95	64295	5.00	4.87	
52 Cyclohexane	56	3.817	3.817	0.000	95	87293	5.00	5.09	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	96	46797	5.00	4.81	
53 Carbon tetrachloride	117	3.931	3.931	0.000	97	38167	5.00	4.72	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	92	47072	5.00	4.83	
55 Benzene	78	4.118	4.118	0.000	72	145081	5.00	4.89	
56 Isobutyl alcohol	43	4.180	4.170	0.010	76	47920	125.0	103.3	
57 1,2-Dichloroethane	62	4.180	4.170	0.010	96	55842	5.00	4.87	
59 n-Heptane	43	4.263	4.263	0.000	97	77945	5.00	4.51	
60 Trichloroethene	95	4.605	4.605	0.000	96	33990	5.00	4.70	
62 Methylcyclohexane	83	4.688	4.688	0.000	98	63673	5.00	4.95	
63 1,2-Dichloropropane	63	4.802	4.792	0.010	93	40238	5.00	4.93	
65 Dibromomethane	93	4.905	4.895	0.010	96	21744	5.00	4.66	
66 1,4-Dioxane	88	4.937	4.926	0.011	91	8392	100.0	101.2	
67 Dichlorobromomethane	83	5.030	5.020	0.010	98	43573	5.00	4.71	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	90	26481	5.00	4.59	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	92	44992	5.00	4.61	
72 4-Methyl-2-pentanone (MIBK)	43	5.475	5.476	-0.001	98	326439	25.0	24.1	
73 Toluene	92	5.569	5.569	0.000	97	83985	5.00	4.88	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	98	35426	5.00	4.56	
77 Ethyl methacrylate	69	5.838	5.828	0.010	95	45803	5.00	4.62	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	93	27116	5.00	4.67	
79 Tetrachloroethene	166	5.963	5.963	-0.001	93	35997	5.00	4.92	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	99	54995	5.00	4.76	
81 2-Hexanone	43	6.118	6.118	0.000	98	231122	25.0	24.0	
82 Chlorodibromomethane	129	6.222	6.222	0.000	92	25470	5.00	4.28	
83 Ethylene Dibromide	107	6.294	6.294	0.000	97	32163	5.00	4.71	
86 Chlorobenzene	112	6.657	6.657	0.000	93	97336	5.00	4.99	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	43	26168	5.00	4.48	
88 Ethylbenzene	91	6.729	6.729	0.000	99	162178	5.00	4.88	
90 m-Xylene & p-Xylene	106	6.823	6.812	0.011	0	63673	5.00	4.93	
91 o-Xylene	106	7.134	7.134	0.000	97	61738	5.00	4.98	
92 Styrene	104	7.154	7.154	0.000	95	103875	5.00	4.85	
93 Bromoform	173	7.330	7.331	0.000	96	15451	5.00	4.42	
95 Isopropylbenzene	105	7.413	7.413	0.000	96	169397	5.00	4.93	
97 Bromobenzene	156	7.672	7.672	0.000	99	39617	5.00	4.87	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	95	51764	5.00	4.85	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	194937	5.00	4.84	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	89	15812	5.00	4.69	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	61	3390	5.00	5.01	
105 2-Chlorotoluene	126	7.828	7.828	0.000	96	37661	5.00	4.87	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	93	138198	5.00	4.82	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	135775	5.00	4.83	
106 tert-Butylbenzene	134	8.149	8.149	0.000	94	28962	5.00	4.93	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.000	98	142928	5.00	4.76	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.325	8.325	0.000	94	184608	5.00	5.01	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	98	79711	5.00	5.04	
111 4-Isopropyltoluene	119	8.450	8.439	0.011	98	151828	5.00	4.85	
113 1,4-Dichlorobenzene	146	8.501	8.502	-0.001	96	78226	5.00	4.86	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	146173	5.00	5.06	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	97	76625	5.00	4.90	
117 1,2-Dibromo-3-Chloropropan	75	9.486	9.486	0.000	75	8292	5.00	4.55	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	94	50354	5.00	4.82	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	97	26400	5.00	5.42	
121 Naphthalene	128	10.336	10.336	0.000	97	151292	5.00	4.67	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	96	49321	5.00	4.98	
S 125 Total BTEX	1				0			24.6	
S 126 Xylenes, Total	1				0			9.91	
S 123 1,3-Dichloropropene, Total	1				0			9.17	
S 124 1,2-Dichloroethene, Total	1				0			9.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00019	Amount Added: 5.00	Units: uL	
GAS CORP mix_00043	Amount Added: 5.00	Units: uL	
T_8260_IS_00079	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00078	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4569.D

Injection Date: 25-Aug-2014 17:18:30

Instrument ID: HP5975T

Lims ID: IC 2

Operator ID: LH

Client ID:

Worklist Smp#: 10

Purge Vol: 5.000 mL

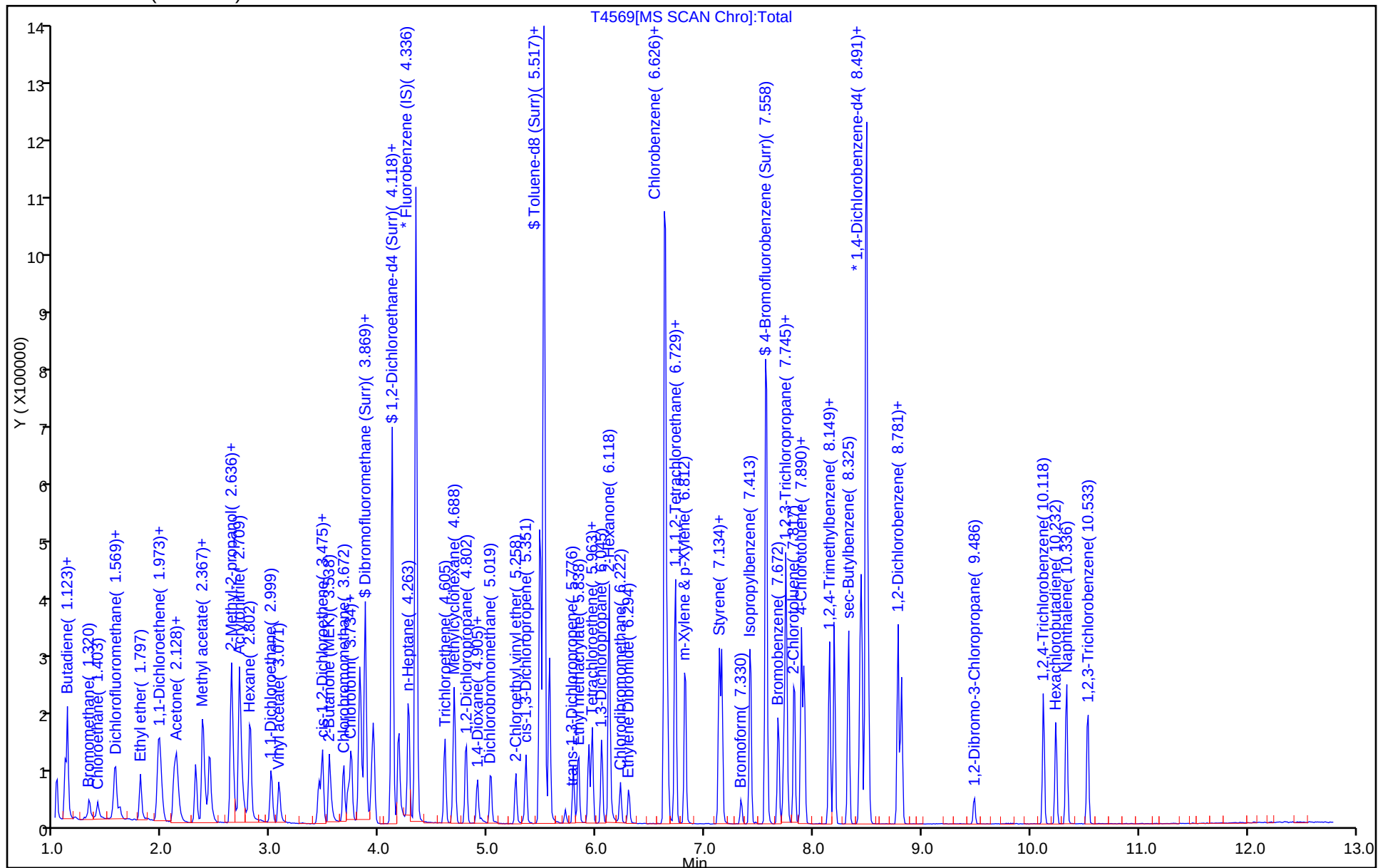
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4569.D

Injection Date: 25-Aug-2014 17:18:30

Instrument ID: HP5975T

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#:

3

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

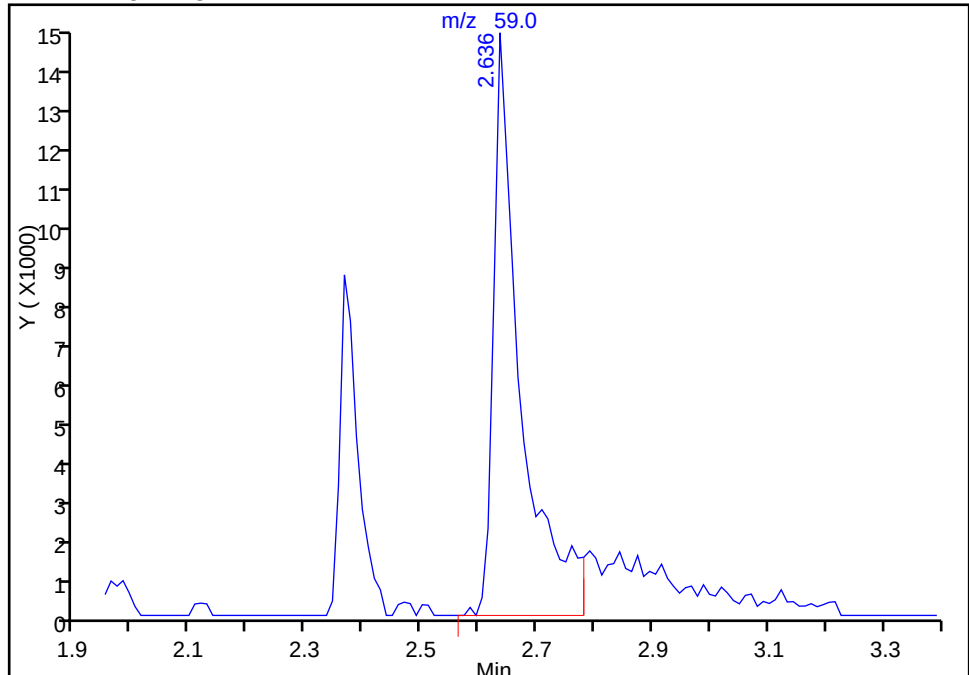
Detector

MS SCAN

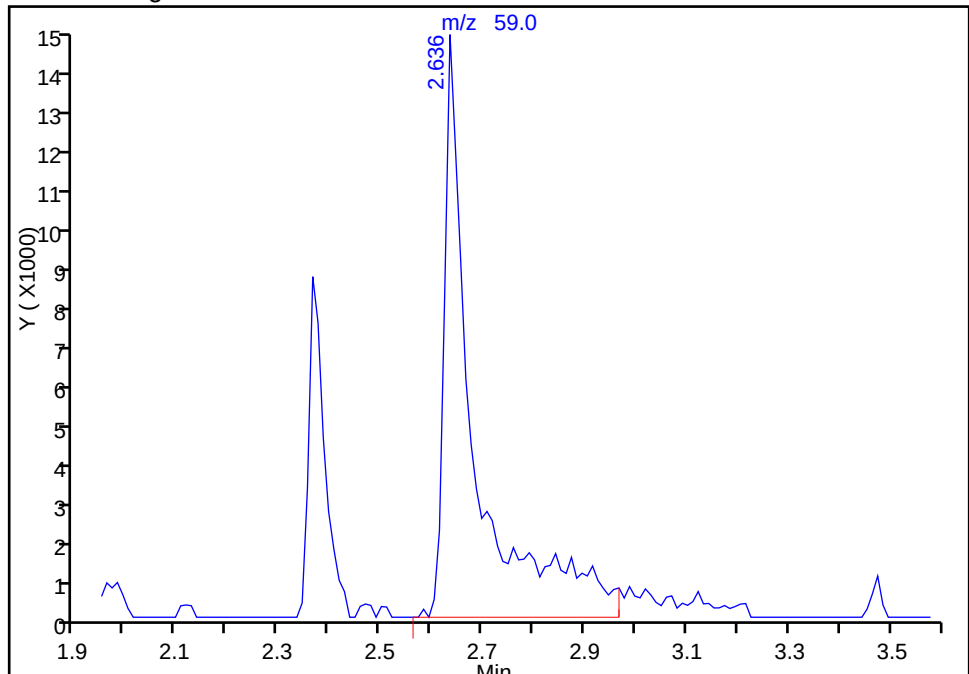
31 2-Methyl-2-propanol, CAS: 75-65-0

RT: 2.64
Response: 47687
Amount: 40.230168

Processing Integration Results

RT: 2.64
Response: 60159
Amount: 48.415091

Manual Integration Results



Reviewer: nguyendudziaknq, 26-Aug-2014 14:03:50

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4570.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 25-Aug-2014 17:43:30 ALS Bottle#: 4 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0034843-011
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:04:05 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 26-Aug-2014 09:41:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	662937	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	89	483713	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	254644	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	171036	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	220394	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	623687	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	91	190114	25.0	25.1	
11 Dichlorodifluoromethane	85	0.916	0.916	0.000	99	99419	10.0	9.96	
13 Chloromethane	50	1.019	1.019	0.000	99	115171	10.0	9.64	
14 Vinyl chloride	62	1.102	1.102	0.000	99	103200	10.0	9.52	
151 Butadiene	54	1.123	1.123	0.000	93	131011	10.0	9.82	
15 Bromomethane	94	1.320	1.320	0.000	92	33866	10.0	9.91	
16 Chloroethane	64	1.403	1.403	0.000	98	43601	10.0	9.62	
17 Trichlorofluoromethane	101	1.569	1.569	0.000	81	94197	10.0	9.90	
18 Dichlorofluoromethane	67	1.569	1.569	0.000	95	94046	10.0	9.74	
19 Ethyl ether	59	1.797	1.797	0.000	97	74989	10.0	9.61	
21 Acrolein	56	1.952	1.952	0.000	99	69197	50.0	45.9	
22 1,1-Dichloroethene	96	1.973	1.973	0.000	93	57694	10.0	9.38	
20 1,1,2-Trichloro-1,2,2-trif	101	1.983	1.983	0.000	94	61720	10.0	9.32	
23 Acetone	43	2.107	2.107	0.000	100	178247	50.0	46.9	
24 Iodomethane	142	2.107	2.107	0.000	99	102515	10.0	9.88	
25 Carbon disulfide	76	2.128	2.128	0.000	100	220417	10.0	9.43	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	91	129930	10.0	9.60	
28 Methyl acetate	43	2.367	2.367	0.000	100	566472	50.0	48.8	
30 Methylene Chloride	84	2.439	2.439	0.000	97	84048	10.0	10.1	
31 2-Methyl-2-propanol	59	2.636	2.636	0.000	41	125350	100.0	96.3	M
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	92	71956	10.0	9.67	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	97	241542	10.0	9.82	
34 Acrylonitrile	53	2.709	2.709	0.000	97	472444	100.0	98.3	
35 Hexane	57	2.802	2.802	0.000	95	138375	10.0	9.47	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	96	147305	10.0	9.64	
39 Vinyl acetate	43	3.071	3.071	0.000	97	196096	20.0	18.7	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	88	65009	10.0	9.43	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	83	77673	10.0	9.78	
44 2-Butanone (MEK)	43	3.538	3.538	0.000	99	314487	50.0	49.0	
47 Chlorobromomethane	128	3.672	3.672	0.000	92	39541	10.0	9.80	
48 Tetrahydrofuran	42	3.703	3.703	0.000	92	86774	20.0	19.2	
50 Chloroform	83	3.734	3.734	0.000	95	130884	10.0	9.78	
52 Cyclohexane	56	3.817	3.817	0.000	95	169165	10.0	9.73	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	95	96175	10.0	9.75	
53 Carbon tetrachloride	117	3.931	3.931	0.000	98	76748	10.0	9.37	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	92	94368	10.0	9.55	
55 Benzene	78	4.118	4.118	0.000	91	286494	10.0	9.53	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	96	113245	10.0	9.75	
56 Isobutyl alcohol	43	4.180	4.180	0.000	74	103712	250.0	220.6	
59 n-Heptane	43	4.263	4.263	0.000	97	172584	10.0	9.86	
60 Trichloroethene	95	4.605	4.605	0.000	96	70201	10.0	9.57	
62 Methylcyclohexane	83	4.688	4.688	0.000	98	128181	10.0	9.84	
63 1,2-Dichloropropane	63	4.802	4.802	0.000	93	80249	10.0	9.71	
65 Dibromomethane	93	4.906	4.906	0.000	96	46717	10.0	9.88	
66 1,4-Dioxane	88	4.937	4.937	0.000	96	18135	200.0	199.6	
67 Dichlorobromomethane	83	5.020	5.020	0.000	97	89266	10.0	9.52	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	92	57459	10.0	9.82	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	92	95906	10.0	9.70	
72 4-Methyl-2-pentanone (MIBK)	43	5.475	5.475	0.000	98	679024	50.0	48.4	
73 Toluene	92	5.569	5.569	0.000	97	173048	10.0	9.70	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	97	78259	10.0	9.72	
77 Ethyl methacrylate	69	5.828	5.828	0.000	94	98770	10.0	9.62	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	92	57367	10.0	9.54	
79 Tetrachloroethene	166	5.963	5.963	0.000	96	74309	10.0	9.81	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	98	117861	10.0	9.85	
81 2-Hexanone	43	6.118	6.118	0.000	99	498651	50.0	49.9	
82 Chlorodibromomethane	129	6.222	6.222	0.000	91	57958	10.0	9.41	
83 Ethylene Dibromide	107	6.294	6.294	0.000	98	67362	10.0	9.51	
86 Chlorobenzene	112	6.657	6.657	0.000	93	195202	10.0	9.65	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	43	56027	10.0	9.26	
88 Ethylbenzene	91	6.729	6.729	0.000	98	332221	10.0	9.64	
90 m-Xylene & p-Xylene	106	6.823	6.823	0.000	0	129560	10.0	9.67	
91 o-Xylene	106	7.134	7.134	0.000	98	125934	10.0	9.80	
92 Styrene	104	7.154	7.154	0.000	95	216719	10.0	9.77	
93 Bromoform	173	7.330	7.330	0.000	95	32137	10.0	8.87	
95 Isopropylbenzene	105	7.413	7.413	0.000	96	338311	10.0	9.87	
97 Bromobenzene	156	7.672	7.672	0.000	99	79292	10.0	9.77	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	92	108645	10.0	10.2	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	395625	10.0	9.86	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	91	32613	10.0	9.71	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	70	9215	10.0	8.91	
105 2-Chlorotoluene	126	7.828	7.828	0.000	95	74557	10.0	9.67	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	94	284755	10.0	9.96	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	280562	10.0	10.0	
106 tert-Butylbenzene	134	8.149	8.149	0.000	95	55766	10.0	9.52	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.000	98	298332	10.0	9.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.325	8.325	0.000	95	371325	10.0	10.1	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	97	155468	10.0	9.85	
111 4-Isopropyltoluene	119	8.439	8.439	0.000	98	319235	10.0	10.2	
113 1,4-Dichlorobenzene	146	8.501	8.501	0.000	94	162205	10.0	10.1	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	289871	10.0	10.1	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	97	153417	10.0	9.85	
117 1,2-Dibromo-3-Chloropropan	75	9.476	9.476	0.000	79	18094	10.0	9.95	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	95	105308	10.0	10.1	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	97	53566	10.0	11.0	
121 Naphthalene	128	10.336	10.336	0.000	97	326334	10.0	10.1	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	95	102318	10.0	10.4	
S 123 1,3-Dichloropropene, Total	1				0			19.4	
S 124 1,2-Dichloroethene, Total	1				0			19.5	
S 125 Total BTEX	1				0			48.3	
S 126 Xylenes, Total	1				0			19.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00019

Amount Added: 5.00

Units: uL

GAS CORP mix_00043

Amount Added: 5.00

Units: uL

T_8260_IS_00079

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00078

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4570.D

Injection Date: 25-Aug-2014 17:43:30

Instrument ID: HP5975T

Lims ID: IC 3

Operator ID: LH

Client ID:

Worklist Smp#: 11

Purge Vol: 5.000 mL

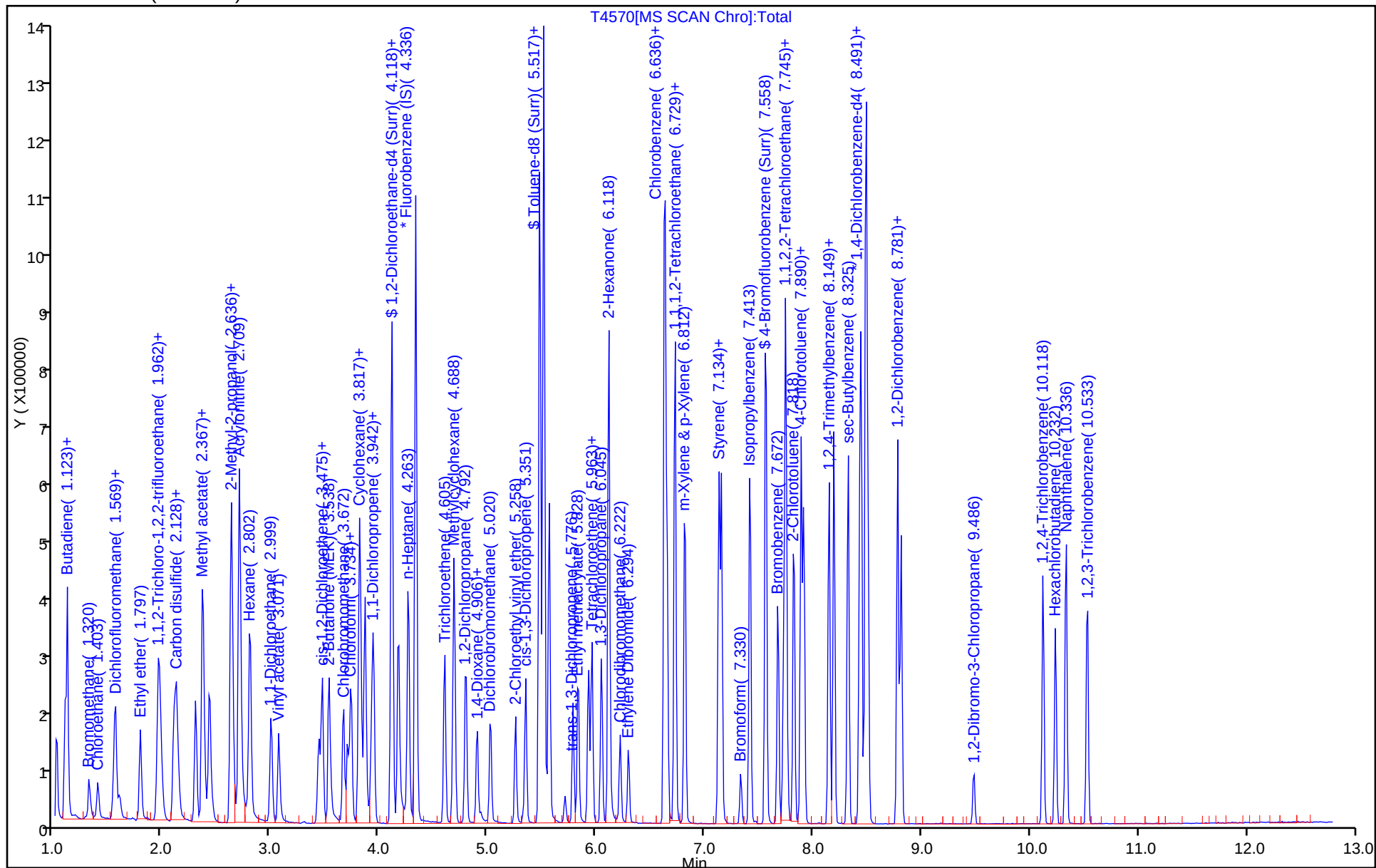
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4570.D

Injection Date: 25-Aug-2014 17:43:30

Instrument ID: HP5975T

Lims ID: IC 3

Client ID:

Operator ID: LH

ALS Bottle#:

4

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

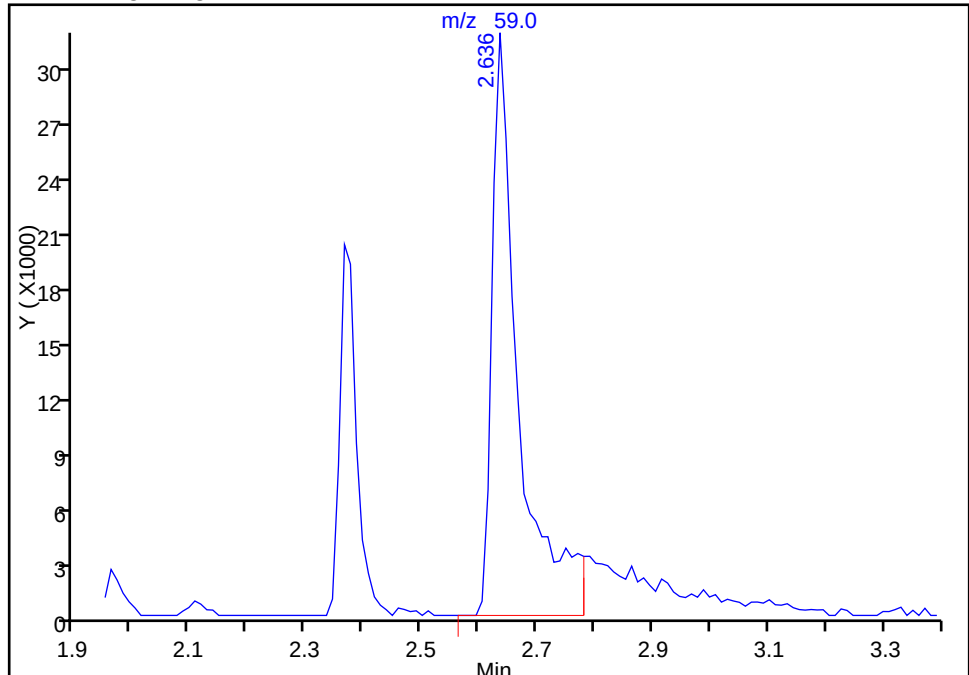
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

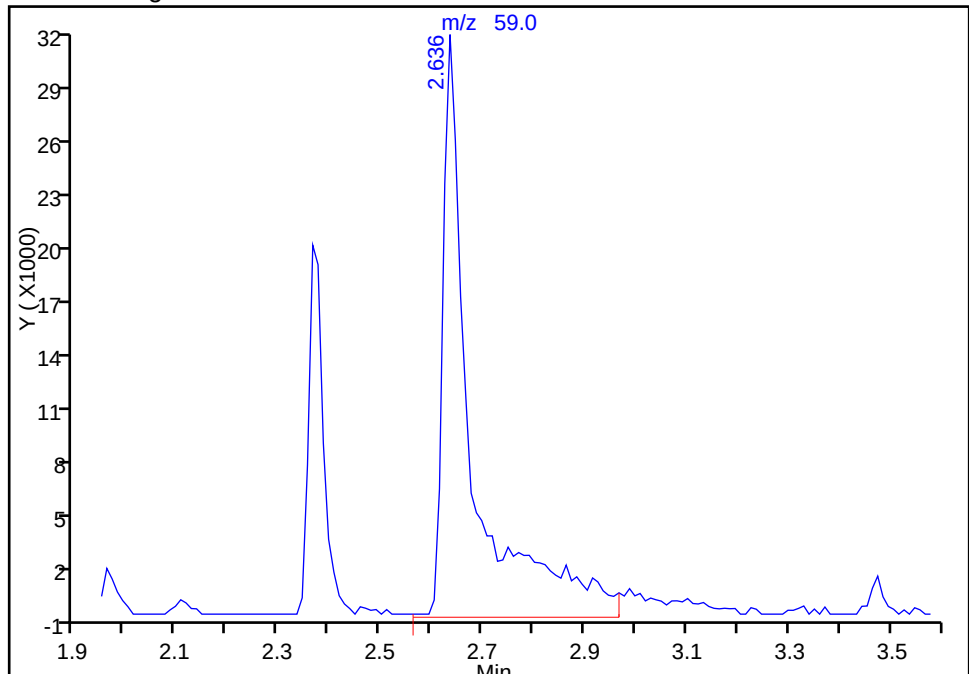
RT: 2.64
Response: 99448
Amount: 78.991229

Processing Integration Results



RT: 2.64
Response: 125350
Amount: 96.264225

Manual Integration Results



Reviewer: nguyendudziaknq, 26-Aug-2014 14:04:05

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4571.D
 Lims ID: ICIS 4
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 25-Aug-2014 18:07:30 ALS Bottle#: 5 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 4
 Misc. Info.: 480-0034843-012
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:01:31 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 26-Aug-2014 09:42:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	669102	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	88	471878	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	96	257706	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	174444	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	217854	25.0	24.4	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	619008	25.0	25.3	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	91	189398	25.0	25.6	
11 Dichlorodifluoromethane	85	0.916	0.916	0.000	99	242956	25.0	24.1	
13 Chloromethane	50	1.019	1.019	0.000	100	285957	25.0	23.7	
14 Vinyl chloride	62	1.102	1.102	0.000	98	256984	25.0	23.5	
151 Butadiene	54	1.123	1.123	0.000	93	328113	25.0	24.4	
15 Bromomethane	94	1.330	1.330	0.000	91	83118	25.0	24.1	
16 Chloroethane	64	1.403	1.403	0.000	98	116303	25.0	25.4	
17 Trichlorofluoromethane	101	1.569	1.569	0.000	81	245616	25.0	25.6	
18 Dichlorofluoromethane	67	1.569	1.569	0.000	95	237318	25.0	24.4	
19 Ethyl ether	59	1.797	1.797	0.000	99	197202	25.0	25.0	
21 Acrolein	56	1.952	1.952	0.000	100	205762	125.0	135.2	
22 1,1-Dichloroethene	96	1.962	1.962	0.000	94	150911	25.0	24.3	
20 1,1,2-Trichloro-1,2,2-trif	101	1.983	1.983	0.000	96	164886	25.0	24.7	
24 Iodomethane	142	2.108	2.108	0.000	57	265115	25.0	25.3	
23 Acetone	43	2.108	2.108	0.000	99	503969	125.0	131.4	
25 Carbon disulfide	76	2.128	2.128	0.000	100	573972	25.0	24.3	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	90	342100	25.0	25.0	
28 Methyl acetate	43	2.367	2.367	0.000	100	1439573	125.0	122.8	
30 Methylene Chloride	84	2.439	2.439	0.000	97	198849	25.0	24.8	
31 2-Methyl-2-propanol	59	2.626	2.626	0.000	94	334740	250.0	272.6	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	69	187762	25.0	25.0	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	97	604188	25.0	24.3	
34 Acrylonitrile	53	2.709	2.709	0.000	99	1233663	250.0	254.4	
35 Hexane	57	2.802	2.802	0.000	96	348275	25.0	23.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	97	373213	25.0	24.2	
39 Vinyl acetate	43	3.071	3.071	0.000	97	531380	50.0	50.2	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	90	162042	25.0	23.3	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	83	198418	25.0	24.8	
44 2-Butanone (MEK)	43	3.527	3.527	0.000	98	814303	125.0	125.6	
47 Chlorobromomethane	128	3.672	3.672	0.000	93	101425	25.0	24.9	
48 Tetrahydrofuran	42	3.703	3.703	0.000	93	219994	50.0	48.2	
50 Chloroform	83	3.735	3.735	0.000	96	325721	25.0	24.1	
52 Cyclohexane	56	3.817	3.817	0.000	94	427531	25.0	24.4	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	97	247247	25.0	24.8	
53 Carbon tetrachloride	117	3.931	3.931	0.000	98	200692	25.0	24.3	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	94	244878	25.0	24.6	
55 Benzene	78	4.118	4.118	0.000	96	735580	25.0	24.3	
56 Isobutyl alcohol	43	4.170	4.170	0.000	95	328753	625.0	692.8	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	97	290023	25.0	24.7	
59 n-Heptane	43	4.263	4.263	0.000	97	411074	25.0	23.3	
60 Trichloroethene	95	4.605	4.605	0.000	96	179959	25.0	24.3	
62 Methylcyclohexane	83	4.688	4.688	0.000	98	326431	25.0	24.8	
63 1,2-Dichloropropane	63	4.792	4.792	0.000	94	207001	25.0	24.8	
65 Dibromomethane	93	4.895	4.895	0.000	95	119419	25.0	25.0	
66 1,4-Dioxane	88	4.926	4.926	0.000	93	48211	500.0	526.0	
67 Dichlorobromomethane	83	5.020	5.020	0.000	98	232042	25.0	24.5	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	92	148261	25.0	25.1	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	92	256029	25.0	25.7	
72 4-Methyl-2-pentanone (MIBK)	43	5.476	5.476	0.000	98	1709084	125.0	124.8	
73 Toluene	92	5.569	5.569	0.000	98	425501	25.0	24.4	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	98	209097	25.0	26.6	
77 Ethyl methacrylate	69	5.828	5.828	0.000	94	257376	25.0	25.7	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	92	146327	25.0	24.9	
79 Tetrachloroethene	166	5.963	5.963	0.000	98	179160	25.0	24.2	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	97	298313	25.0	25.6	
81 2-Hexanone	43	6.118	6.118	0.000	98	1252580	125.0	128.5	
82 Chlorodibromomethane	129	6.222	6.222	0.000	90	153187	25.0	25.5	
83 Ethylene Dibromide	107	6.294	6.294	0.000	99	170133	25.0	24.6	
86 Chlorobenzene	112	6.657	6.657	0.000	93	484895	25.0	24.6	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	44	145264	25.0	24.6	
88 Ethylbenzene	91	6.729	6.729	0.000	99	837045	25.0	24.9	
90 m-Xylene & p-Xylene	106	6.812	6.812	0.000	0	326591	25.0	25.0	
91 o-Xylene	106	7.134	7.134	0.000	98	317981	25.0	25.4	
92 Styrene	104	7.154	7.154	0.000	95	545716	25.0	25.2	
93 Bromoform	173	7.331	7.331	0.000	95	85322	25.0	24.1	
95 Isopropylbenzene	105	7.413	7.413	0.000	96	860926	25.0	24.8	
97 Bromobenzene	156	7.672	7.672	0.000	99	196620	25.0	23.9	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	95	269730	25.0	25.1	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	1008349	25.0	24.8	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	89	82408	25.0	24.2	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	72	31967	25.0	22.3	
105 2-Chlorotoluene	126	7.828	7.828	0.000	96	194682	25.0	24.9	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	93	729738	25.0	25.2	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	701138	25.0	24.7	
106 tert-Butylbenzene	134	8.149	8.149	0.000	95	147030	25.0	24.8	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.000	97	757726	25.0	25.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.325	8.325	0.000	95	933210	25.0	25.1	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	97	394364	25.0	24.7	
111 4-Isopropyltoluene	119	8.439	8.439	0.000	97	791531	25.0	25.1	
113 1,4-Dichlorobenzene	146	8.502	8.502	0.000	93	402077	25.0	24.8	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	726139	25.0	24.9	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	97	389105	25.0	24.7	
117 1,2-Dibromo-3-Chloropropan	75	9.486	9.486	0.000	81	46036	25.0	25.0	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	95	263728	25.0	25.0	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	97	127190	25.0	25.9	
121 Naphthalene	128	10.336	10.336	0.000	97	822671	25.0	25.2	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	96	249488	25.0	25.0	
S 125 Total BTEX	1				0			124.0	
S 126 Xylenes, Total	1				0			50.4	
S 123 1,3-Dichloropropene, Total	1				0			52.3	
S 124 1,2-Dichloroethene, Total	1				0			49.8	

Reagents:

8260 CORP mix_00019	Amount Added: 12.50	Units: uL	
GAS CORP mix_00043	Amount Added: 12.50	Units: uL	
T_8260_IS_00079	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00078	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4571.D

Injection Date: 25-Aug-2014 18:07:30

Instrument ID: HP5975T

Lims ID: ICIS 4

Operator ID: LH

Client ID:

Worklist Smp#: 12

Purge Vol: 5.000 mL

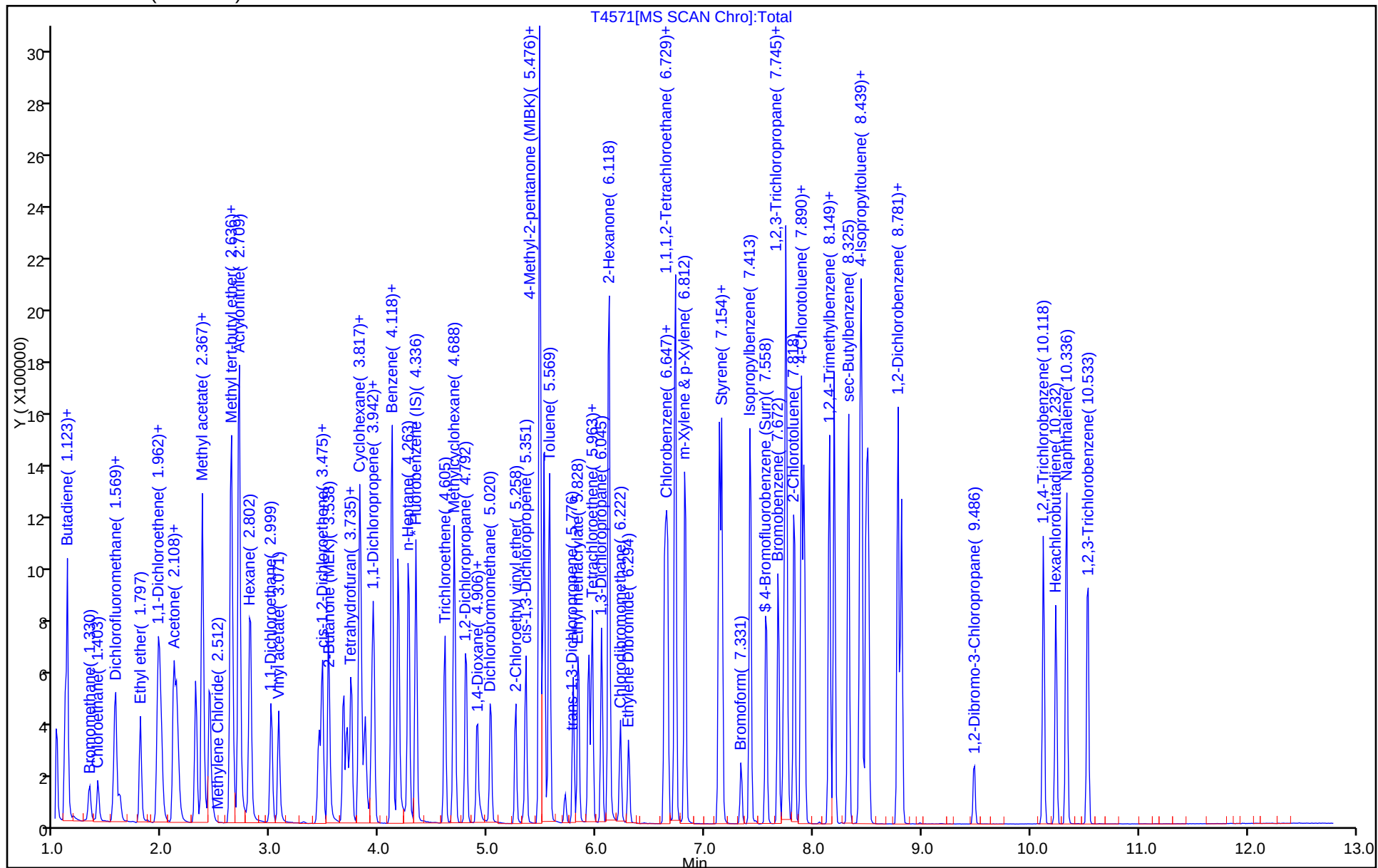
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4572.D
 Lims ID: IC 5
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 25-Aug-2014 18:31:30 ALS Bottle#: 6 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 5
 Misc. Info.: 480-0034843-013
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:05:32 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 26-Aug-2014 09:42:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	654555	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	88	481542	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	95	255228	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	172512	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	219664	25.0	25.1	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	623118	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	91	183152	25.0	24.2	
11 Dichlorodifluoromethane	85	0.916	0.916	0.000	99	486798	50.0	49.4	
13 Chloromethane	50	1.030	1.019	0.011	99	580526	50.0	49.2	
14 Vinyl chloride	62	1.102	1.102	0.000	98	509030	50.0	47.5	
151 Butadiene	54	1.123	1.123	0.000	93	633592	50.0	48.1	
15 Bromomethane	94	1.330	1.320	0.010	91	169619	50.0	50.2	
16 Chloroethane	64	1.403	1.403	0.000	98	235278	50.0	52.6	
17 Trichlorofluoromethane	101	1.569	1.569	0.000	80	482890	50.0	51.4	
18 Dichlorofluoromethane	67	1.569	1.569	0.000	96	478252	50.0	50.2	
19 Ethyl ether	59	1.797	1.797	0.000	98	378888	50.0	49.2	
21 Acrolein	56	1.952	1.952	0.000	100	364180	250.0	244.7	
22 1,1-Dichloroethene	96	1.973	1.973	0.000	94	301785	50.0	49.7	
20 1,1,2-Trichloro-1,2,2-trif	101	1.983	1.983	0.000	95	334926	50.0	51.2	
23 Acetone	43	2.108	2.107	0.001	99	948771	250.0	252.9	
24 Iodomethane	142	2.108	2.107	0.001	82	532361	50.0	51.9	
25 Carbon disulfide	76	2.128	2.128	0.000	100	1158356	50.0	50.2	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	91	717087	50.0	53.7	
28 Methyl acetate	43	2.367	2.367	0.000	100	2891871	250.0	252.2	
30 Methylene Chloride	84	2.439	2.439	0.000	97	389984	50.0	50.6	
31 2-Methyl-2-propanol	59	2.626	2.636	-0.010	43	640482	500.0	498.2	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	72	365592	50.0	49.8	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	98	1213943	50.0	50.0	
34 Acrylonitrile	53	2.709	2.709	0.000	99	2261958	500.0	476.9	
35 Hexane	57	2.812	2.802	0.010	95	711919	50.0	49.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	97	745514	50.0	49.4	
39 Vinyl acetate	43	3.071	3.071	0.000	97	1084441	100.0	104.7	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	92	333745	50.0	49.1	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	83	400568	50.0	51.1	
44 2-Butanone (MEK)	43	3.527	3.538	-0.011	98	1610045	250.0	253.9	
47 Chlorobromomethane	128	3.672	3.672	0.000	92	196714	50.0	49.4	
48 Tetrahydrofuran	42	3.693	3.703	-0.010	94	423752	100.0	95.0	
50 Chloroform	83	3.735	3.734	0.001	96	653945	50.0	49.5	
52 Cyclohexane	56	3.817	3.817	0.000	94	861540	50.0	50.2	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	98	505805	50.0	52.0	
53 Carbon tetrachloride	117	3.931	3.931	0.000	98	418612	50.0	51.8	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	94	489776	50.0	50.2	
55 Benzene	78	4.118	4.118	0.000	97	1454496	50.0	49.0	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	96	576943	50.0	50.3	
56 Isobutyl alcohol	43	4.170	4.180	-0.010	93	599938	1250.0	1292.3	
59 n-Heptane	43	4.263	4.263	0.000	97	935011	50.0	54.1	
60 Trichloroethene	95	4.605	4.605	0.000	97	362594	50.0	50.1	
62 Methylcyclohexane	83	4.688	4.688	0.000	98	665983	50.0	51.8	
63 1,2-Dichloropropane	63	4.792	4.802	-0.010	93	405372	50.0	49.7	
65 Dibromomethane	93	4.895	4.906	-0.011	95	235796	50.0	50.5	
66 1,4-Dioxane	88	4.926	4.937	-0.011	96	92582	1000.0	980.5	
67 Dichlorobromomethane	83	5.020	5.020	0.000	98	465505	50.0	50.3	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	93	299242	50.0	51.8	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	93	530934	50.0	54.4	
72 4-Methyl-2-pentanone (MIBK)	43	5.476	5.475	0.001	98	3379620	250.0	241.8	
73 Toluene	92	5.569	5.569	0.000	98	864639	50.0	48.7	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	97	453608	50.0	56.6	
77 Ethyl methacrylate	69	5.828	5.828	0.000	94	531757	50.0	52.0	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	93	292470	50.0	48.8	
79 Tetrachloroethene	166	5.963	5.963	0.000	97	358407	50.0	47.5	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	98	580727	50.0	48.7	
81 2-Hexanone	43	6.118	6.118	0.000	99	2420884	250.0	243.4	
82 Chlorodibromomethane	129	6.222	6.222	0.000	90	326122	50.0	53.2	
83 Ethylene Dibromide	107	6.294	6.294	0.000	97	353428	50.0	50.1	
86 Chlorobenzene	112	6.657	6.657	0.000	93	957599	50.0	47.5	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	44	300866	50.0	49.9	
88 Ethylbenzene	91	6.729	6.729	0.000	99	1675262	50.0	48.8	
90 m-Xylene & p-Xylene	106	6.812	6.823	-0.011	0	650425	50.0	48.8	
91 o-Xylene	106	7.134	7.134	0.000	98	642042	50.0	50.2	
92 Styrene	104	7.154	7.154	0.000	95	1102276	50.0	49.9	
93 Bromoform	173	7.331	7.330	0.000	96	193385	50.0	53.6	
95 Isopropylbenzene	105	7.413	7.413	0.000	97	1718399	50.0	50.0	
97 Bromobenzene	156	7.672	7.672	0.000	99	394747	50.0	48.5	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	95	529428	50.0	49.6	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	2003392	50.0	49.8	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	89	166482	50.0	49.4	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	78	93821	50.0	51.8	
105 2-Chlorotoluene	126	7.828	7.828	0.000	96	383529	50.0	49.6	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	95	1446812	50.0	50.5	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	1383687	50.0	49.3	
106 tert-Butylbenzene	134	8.149	8.149	0.000	95	291668	50.0	49.7	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.000	97	1513168	50.0	50.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.325	8.325	0.000	95	1837474	50.0	49.9	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	98	776399	50.0	49.1	
111 4-Isopropyltoluene	119	8.450	8.439	0.011	97	1567268	50.0	50.1	
113 1,4-Dichlorobenzene	146	8.502	8.501	0.001	93	795431	50.0	49.5	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	1460416	50.0	50.6	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	97	765831	50.0	49.0	
117 1,2-Dibromo-3-Chloropropan	75	9.486	9.476	0.010	81	101901	50.0	55.9	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	94	541091	50.0	51.8	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	98	254576	50.0	52.3	
121 Naphthalene	128	10.336	10.336	0.000	97	1693090	50.0	52.3	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	96	509893	50.0	51.5	
S 123 1,3-Dichloropropene, Total	1				0			111.0	
S 124 1,2-Dichloroethene, Total	1				0			100.9	
S 125 Total BTEX	1				0			245.5	
S 126 Xylenes, Total	1				0			99.0	

Reagents:

8260 CORP mix_00019	Amount Added: 25.00	Units: uL	
GAS CORP mix_00043	Amount Added: 25.00	Units: uL	
T_8260_IS_00079	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00078	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4572.D

Injection Date: 25-Aug-2014 18:31:30

Instrument ID: HP5975T

Lims ID: IC 5

Operator ID: LH

Client ID:

Worklist Smp#: 13

Purge Vol: 5.000 mL

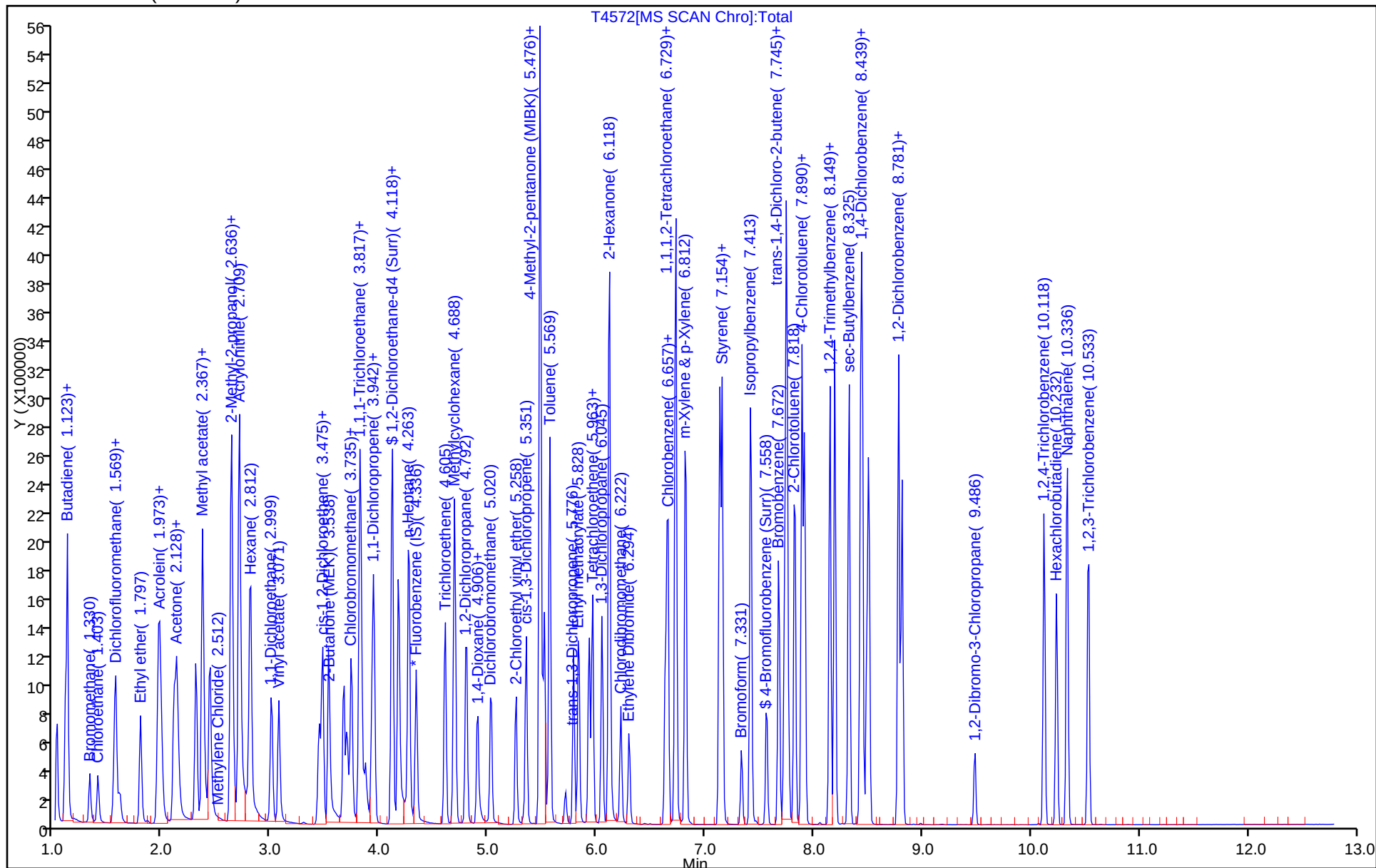
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4573.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 25-Aug-2014 18:54:30 ALS Bottle#: 7 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0034843-014
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:09:01 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: nguyendudziakng

Date: 26-Aug-2014 14:09:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	97	686431	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	86	488892	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	23	260885	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	56	176479	25.0	24.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	226719	25.0	24.7	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	26	644346	25.0	25.4	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	92	192046	25.0	25.0	
11 Dichlorodifluoromethane	85	0.916	0.916	0.000	89	1011344	100.0	97.8	
13 Chloromethane	50	1.030	1.019	0.011	89	1217978	100.0	98.4	
14 Vinyl chloride	62	1.102	1.102	0.000	83	1053669	100.0	93.8	
151 Butadiene	54	1.123	1.123	0.000	94	1268404	100.0	91.9	
15 Bromomethane	94	1.330	1.320	0.010	92	382167	100.0	108.0	
16 Chloroethane	64	1.403	1.403	0.000	98	510013	100.0	108.6	
17 Trichlorofluoromethane	101	1.569	1.569	0.000	68	1030094	100.0	104.5	
18 Dichlorofluoromethane	67	1.569	1.569	0.000	80	1036123	100.0	103.6	
19 Ethyl ether	59	1.797	1.797	0.000	98	797739	100.0	98.7	
21 Acrolein	56	1.952	1.952	0.000	99	839235	500.0	537.7	
22 1,1-Dichloroethene	96	1.973	1.973	0.000	84	616485	100.0	96.7	
20 1,1,2-Trichloro-1,2,2-trif	101	1.973	1.983	-0.010	55	675877	100.0	98.6	
23 Acetone	43	2.097	2.107	-0.010	99	1876059	500.0	476.9	
24 Iodomethane	142	2.108	2.107	0.001	72	1109139	100.0	103.2	
25 Carbon disulfide	76	2.128	2.128	0.000	100	2461016	100.0	101.7	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	88	1479336	100.0	105.6	
28 Methyl acetate	43	2.367	2.367	0.000	97	6100714	500.0	507.3	
30 Methylene Chloride	84	2.439	2.439	0.000	90	800551	100.0	99.8	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	69	763472	100.0	99.1	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	93	2533285	100.0	99.5	
31 2-Methyl-2-propanol	59	2.626	2.636	-0.010	52	1530609	1000.0	1135.2	
34 Acrylonitrile	53	2.709	2.709	0.000	98	4937972	1000.0	992.7	
35 Hexane	57	2.812	2.802	0.010	93	1433855	100.0	94.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	97	1545375	100.0	97.7	
39 Vinyl acetate	43	3.071	3.071	0.000	97	2423866	200.0	223.1	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	93	682701	100.0	95.7	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	70	795465	100.0	96.8	
44 2-Butanone (MEK)	43	3.527	3.538	-0.011	98	3420463	500.0	514.4	
47 Chlorobromomethane	128	3.672	3.672	0.000	94	411134	100.0	98.4	
48 Tetrahydrofuran	42	3.693	3.703	-0.010	92	901826	200.0	192.8	
50 Chloroform	83	3.735	3.734	0.001	72	1370052	100.0	98.9	
52 Cyclohexane	56	3.817	3.817	0.000	90	1772943	100.0	98.5	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	73	1049771	100.0	102.8	
53 Carbon tetrachloride	117	3.931	3.931	0.000	91	902306	100.0	106.4	
54 1,1-Dichloropropene	75	3.942	3.942	0.000	91	1003164	100.0	98.1	
55 Benzene	78	4.118	4.118	0.000	98	3031177	100.0	97.4	
57 1,2-Dichloroethane	62	4.170	4.170	0.000	72	1197646	100.0	99.6	
56 Isobutyl alcohol	43	4.170	4.180	-0.010	61	1569465	2500.0	3223.8	
59 n-Heptane	43	4.263	4.263	0.000	97	1766936	100.0	97.5	
60 Trichloroethene	95	4.605	4.605	0.000	93	756219	100.0	99.6	
62 Methylcyclohexane	83	4.688	4.688	0.000	98	1338748	100.0	99.2	
63 1,2-Dichloropropane	63	4.792	4.802	-0.010	91	840011	100.0	98.2	
65 Dibromomethane	93	4.895	4.906	-0.011	90	494641	100.0	101.1	
66 1,4-Dioxane	88	4.926	4.937	-0.011	95	192138	2000.0	1993.4	
67 Dichlorobromomethane	83	5.020	5.020	0.000	92	1000121	100.0	103.0	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	91	634536	100.0	104.7	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	90	1165335	100.0	113.9	
72 4-Methyl-2-pentanone (MIBK)	43	5.476	5.475	0.001	98	6901493	500.0	486.4	
73 Toluene	92	5.569	5.569	0.000	96	1793653	100.0	99.4	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	93	981061	100.0	120.5	
77 Ethyl methacrylate	69	5.828	5.828	0.000	76	1115994	100.0	107.5	
78 1,1,2-Trichloroethane	83	5.932	5.931	0.001	94	603220	100.0	99.2	
79 Tetrachloroethene	166	5.963	5.963	0.000	97	737850	100.0	96.4	
80 1,3-Dichloropropane	76	6.046	6.045	0.001	98	1210202	100.0	100.0	
81 2-Hexanone	43	6.108	6.118	-0.010	99	4999219	500.0	495.0	
82 Chlorodibromomethane	129	6.222	6.222	0.000	89	699835	100.0	112.4	
83 Ethylene Dibromide	107	6.294	6.294	0.000	99	742232	100.0	103.7	
86 Chlorobenzene	112	6.657	6.657	0.000	93	1978805	100.0	96.8	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	39	633273	100.0	103.5	
88 Ethylbenzene	91	6.729	6.729	0.000	99	3443991	100.0	98.9	
90 m-Xylene & p-Xylene	106	6.823	6.823	0.000	0	1332325	100.0	98.4	
91 o-Xylene	106	7.134	7.134	0.000	98	1278245	100.0	98.4	
92 Styrene	104	7.154	7.154	0.000	95	2316107	100.0	103.3	
93 Bromoform	173	7.331	7.330	0.001	95	432766	100.0	118.1	
95 Isopropylbenzene	105	7.413	7.413	0.000	96	3414908	100.0	97.2	
97 Bromobenzene	156	7.672	7.672	0.000	99	820753	100.0	98.7	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	79	1075273	100.0	98.6	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	4048687	100.0	98.5	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	62	340821	100.0	99.0	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	75	237779	100.0	99.8	
105 2-Chlorotoluene	126	7.828	7.828	0.000	95	784008	100.0	99.3	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	93	2896199	100.0	98.9	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	2825386	100.0	98.4	
106 tert-Butylbenzene	134	8.149	8.149	0.000	93	578941	100.0	96.4	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.000	57	2995309	100.0	97.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.325	8.325	0.000	95	3515467	100.0	93.4	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	96	1588504	100.0	98.3	
111 4-Isopropyltoluene	119	8.450	8.439	0.011	97	3001509	100.0	93.9	
113 1,4-Dichlorobenzene	146	8.512	8.501	0.011	94	1612003	100.0	98.1	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	2749611	100.0	93.2	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	91	1556070	100.0	97.5	
117 1,2-Dibromo-3-Chloropropan	75	9.486	9.476	0.010	84	211557	100.0	113.6	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	90	937934	100.0	87.9	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	94	354108	100.0	71.2	
121 Naphthalene	128	10.336	10.336	0.000	97	3219291	100.0	97.3	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	94	856479	100.0	84.6	
S 123 1,3-Dichloropropene, Total	1				0			234.4	
S 124 1,2-Dichloroethene, Total	1				0			195.9	
S 125 Total BTEX	1				0			492.6	
S 126 Xylenes, Total	1				0			196.8	

Reagents:

8260 CORP mix_00019	Amount Added: 50.00	Units: uL	
GAS CORP mix_00043	Amount Added: 50.00	Units: uL	
T_8260_IS_00079	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00078	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4573.D

Injection Date: 25-Aug-2014 18:54:30

Instrument ID: HP5975T

Lims ID: IC 6

Operator ID: LH

Client ID:

Worklist Smp#: 14

Purge Vol: 5.000 mL

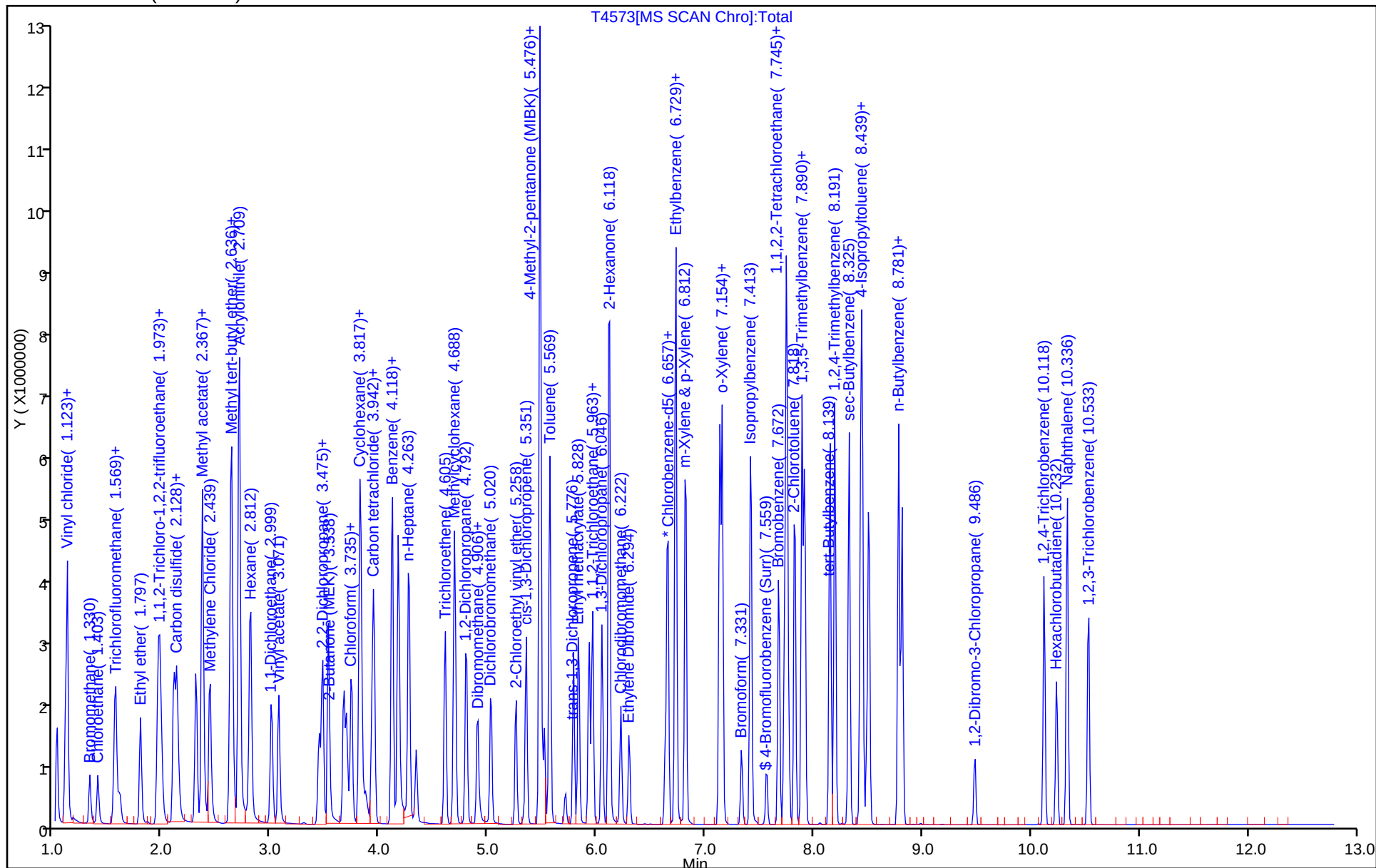
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 20:29 Calibration End Date: 08/25/2014 22:53 Calibration ID: 19972

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-199422/18	T4577.D
Level 2	IC 480-199422/19	T4578.D
Level 3	IC 480-199422/20	T4579.D
Level 4	IC 480-199422/21	T4580.D
Level 5	IC 480-199422/22	T4581.D
Level 6	IC 480-199422/23	T4582.D
Level 7	IC 480-199422/24	T4583.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Chlorodifluoromethane	0.1225 0.2200	0.0823 0.2504	0.1695	0.1751	0.1893	Lin	-1.245	0.2501							0.9950		0.9900
Ethanol	++++ 0.0047	0.0053 0.0048	0.0045	0.0044	0.0045	Ave		0.0047				6.6		20.0			
Isopropyl alcohol	++++ 0.0352	0.0359 0.0391	0.0323	0.0331	0.0360	Ave		0.0353				6.8		20.0			
Acetonitrile	0.0314 0.0357	0.0404 0.0372	0.0438	0.0347	0.0374	Ave		0.0372				11.0		20.0			
Isopropyl ether	++++ 1.2232	1.0505 1.2462	1.1995	1.1462	1.2177	Ave		1.1805				6.1		20.0			
Chloroprene	++++ 0.5483	0.4079 0.5607	0.5295	0.5065	0.5464	Ave		0.5165				11.0		20.0			
Halothane	++++ 0.1908	0.1921 0.1920	0.1913	0.1738	0.1885	Ave		0.1881				3.8		20.0			
1,1-Dimethoxyethane	++++ 0.0612	0.0520 0.0643	0.0549	0.0545	0.0579	Ave		0.0575				8.1		20.0			
Tert-butyl ethyl ether	++++ 1.0387	0.9349 1.0655	0.9802	0.9812	1.0311	Ave		1.0053				4.8		20.0			
Ethyl acetate	++++ 0.4465	0.4003 0.4487	0.4267	0.4144	0.4290	Ave		0.4276				4.3		20.0			
Propionitrile	++++ 0.0770	0.0739 0.0749	0.0723	0.0711	0.0750	Ave		0.0740				2.8		20.0			
Methacrylonitrile	0.3288 0.3056	0.2944 0.3026	0.2975	0.2938	0.3013	Ave		0.3034				4.0		20.0			
Isooctane	++++ 1.2732	0.9327 1.2512	1.2267	1.1676	1.2440	Ave		1.1826				11.0		20.0			
Tert-amyl methyl ether	++++ 1.5832	1.4056 1.6355	1.3364	1.3466	1.4660	Ave		1.4622				8.5		20.0			

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 Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 20:29 Calibration End Date: 08/25/2014 22:53 Calibration ID: 19972

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								
t-Amyl alcohol	0.0446 0.0486	0.0405 0.0499	0.0419	0.0428	0.0457	Ave		0.0449				7.7		15.0			
1,4-Difluorobenzene	++++ 0.7788	0.6253 0.7958	0.7749	0.7299	0.7806	Ave		0.7476				8.5		20.0			
n-Butanol	++++ 0.0260	0.0225 0.0272	0.0159	0.0174	0.0211	Lin	-0.781	0.0277							0.9970		0.9900
Ethyl acrylate	++++ 1.2649	1.1628 1.2324	1.1560	1.0443	1.2013	Ave		1.1770				6.5		20.0			
Methyl methacrylate	0.4135 0.3816	0.3489 0.3832	0.3468	0.3695	0.3777	Ave		0.3745				6.1		20.0			
2-Nitropropane	++++ 0.2018	0.1795 0.2190	0.1820	0.1754	0.1860	Ave		0.1906				8.7		20.0			
Epichlorohydrin	++++ 0.0482	0.0447 0.0490	0.0476	0.0450	0.0482	Ave		0.0471				3.9		20.0			
2-Methylthiophene	++++ 2.2791	1.8391 2.3823	2.2507	2.0938	2.2964	Ave		2.1902				9.0		20.0			
3-Methylthiophene	++++ 2.3916	2.3178 2.4769	2.2986	2.1720	2.3589	Ave		2.3360				4.4		20.0			
n-Butyl acetate	++++ 0.9182	0.7264 0.9120	0.8804	0.8514	0.9106	Ave		0.8665			0.1000	8.4		20.0			
1-Chlorohexane	++++ 0.4530	0.6557 0.4449	0.4896	0.4522	0.4606	Ave		0.4927				17.0		20.0			
3-Chlorobenzotrifluoride	++++ 1.0218	0.7932 1.0270	0.9936	0.9376	1.0098	Ave		0.9638				9.3		20.0			
4-Chlorobenzotrifluoride	++++ 0.9203	0.7716 0.9636	0.8947	0.8637	0.9303	Ave		0.8907				7.6		20.0			
2-Chlorobenzotrifluoride	++++ 0.9930	0.7675 1.0204	0.9512	0.9048	0.9879	Ave		0.9375				9.9		20.0			
Cyclohexanone	++++ 0.0495	0.0518 0.0498	0.0484	0.0453	0.0487	Ave		0.0489				4.3		20.0			
3-Chlorotoluene	++++ 0.7954	0.7118 0.8213	0.8239	0.7495	0.8019	Ave		0.7840				5.7		20.0			
Pentachloroethane	++++ 0.2756	0.1841 0.2924	0.2430	0.2498	0.2726	Ave		0.2529				15.0		20.0			
Dicyclopentadiene	++++ 3.8349	3.2108 4.1073	3.5663	3.4162	3.7419	Ave		3.6462				8.7		20.0			
1,2,3-Trimethylbenzene	++++ 3.0433	2.3199 3.1779	2.9026	2.8650	3.0404	Ave		2.8915				10.0		20.0			
Benzyl chloride	++++ 0.1051	0.0695 0.1187	0.0973	0.0938	0.0995	Ave		0.0973				17.0		20.0			

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 Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 20:29 Calibration End Date: 08/25/2014 22:53 Calibration ID: 19972

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,3,5-Trichlorobenzene	+++++	0.8365 1.1331	1.0930	1.0269	1.1299	Ave		1.0665				12.0		20.0			
2-Methylnaphthalene	+++++	1.0546 1.8776	1.3519	1.4266	1.6854	Lin1	-1.583	1.9287							0.9940		0.9900

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 Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 20:29 Calibration End Date: 08/25/2014 22:53 Calibration ID: 19972

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-199422/18	T4577.D
Level 2	IC 480-199422/19	T4578.D
Level 3	IC 480-199422/20	T4579.D
Level 4	IC 480-199422/21	T4580.D
Level 5	IC 480-199422/22	T4581.D
Level 6	IC 480-199422/23	T4582.D
Level 7	IC 480-199422/24	T4583.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
Chlorodifluoromethane	FB	Lin	2476 575823	4183 1328044	43848	90554	249575	0.800 100	2.00 200	10.0	20.0	50.0
Ethanol	FB	Ave	++++ 308895	6677 636363	28890	56995	149116	++++ 2500	50.0 5000	250	500	1250
Isopropyl alcohol	FB	Ave	++++ 460758	9121 1037984	41831	85684	237380	++++ 500	10.0 1000	50.0	100	250
Acetonitrile	FB	Ave	3176 467722	10275 985098	56686	89673	246805	4.00 500	10.0 1000	50.0	100	250
Isopropyl ether	FB	Ave	++++ 1601034	26709 3304156	155118	296334	802729	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroprene	FB	Ave	++++ 717662	10370 1486514	68473	130944	360203	++++ 50.0	1.00 100	5.00	10.0	25.0
Halothane	FB	Ave	++++ 249757	4883 509114	24737	44942	124234	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	++++ 400771	6607 852875	35485	70421	190677	++++ 250	5.00 500	25.0	50.0	125
Tert-butyl ethyl ether	FB	Ave	++++ 1359532	23771 2825152	126762	253686	679711	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	++++ 1168776	20353 2379478	110365	214275	565584	++++ 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	++++ 1007386	18777 1985080	93521	183821	494240	++++ 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	33244 4000341	74839 8023286	384691	759711	1986237	4.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	++++ 1666450	23713 3317411	158642	301886	820050	++++ 50.0	1.00 100	5.00	10.0	25.0
Tert-amyl methyl ether	FB	Ave	++++ 2072179	35737 4336374	172824	348155	966396	++++ 50.0	1.00 100	5.00	10.0	25.0
t-Amyl alcohol	FB	Ave	13524 1910264	30885 3968616	162613	332130	903679	12.0 1500	30.0 3000	150	300	750

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 20:29 Calibration End Date: 08/25/2014 22:53 Calibration ID: 19972

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
1,4-Difluorobenzene	FB	Ave	++++ 1019310	15899 2109958	100210	188714	514583	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butanol	FB	Lin	++++ 340471	5718 719881	20536	44995	138896	++++ 500	10.0 1000	50.0	100	250
Ethyl acrylate	FB	Ave	++++ 1655629	29565 3267450	149493	269999	791918	++++ 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	8361 998920	17744 2031989	89711	191051	497993	0.800 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	DCB	Ave	++++ 201816	3523 428359	17893	34290	92860	++++ 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Ave	++++ 631262	11361 1299861	61575	116266	317511	++++ 500	10.0 1000	50.0	100	250
2-Methylthiophene	DCB	Ave	++++ 1139640	18049 2330069	110633	204697	573276	++++ 50.0	1.00 100	5.00	10.0	25.0
3-Methylthiophene	DCB	Ave	++++ 1195865	22747 2422615	112987	212342	588890	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butyl acetate	CBZ	Ave	++++ 868718	13138 1717252	81386	156891	427468	++++ 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBZ	Ave	++++ 428570	11860 837775	45262	83326	216199	++++ 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCB	Ave	++++ 510932	7785 1004519	48838	91661	252094	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCB	Ave	++++ 460197	7573 942498	43980	84433	232243	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCB	Ave	++++ 496532	7532 998060	46757	88451	246634	++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCB	Ave	++++ 247763	5083 487274	23782	44323	121531	++++ 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCB	Ave	++++ 397737	6986 803267	40500	73271	200193	++++ 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCB	Ave	++++ 137815	1807 285993	11946	24420	68049	++++ 50.0	1.00 100	5.00	10.0	25.0
Dicyclopentadiene	DCB	Ave	++++ 1917581	31512 4017292	175298	333974	934153	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCB	Ave	++++ 1521752	22768 3108262	142673	280089	759026	++++ 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	CBZ	Ave	++++ 99443	1257 223585	8991	17288	46696	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCB	Ave	++++ 566585	8210 1153554	53725	100396	282083	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methylnaphthalene	DCB	Lin1	++++ 938841	10350 1963884	66451	139472	420758	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1 Analy Batch No.: 199422

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/25/2014 20:29 Calibration End Date: 08/25/2014 22:53 Calibration ID: 19972

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4577.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 25-Aug-2014 20:29:30 ALS Bottle#: 11 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0034843-018
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:12:55 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: nguyendudziakng

Date: 26-Aug-2014 14:12:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.336	-0.001	98	631873	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	89	463688	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	244193	25.0	25.0	
12 Chlorodifluoromethane	51	0.926	0.936	-0.010	95	2476	0.8000	5.37	
148 Ethanol	45		1.828					ND	
84 Propene oxide	58		1.879					ND	
26 Isopropyl alcohol	45		2.294					ND	
29 Acetonitrile	40	2.387	2.398	-0.011	0	3176	4.00	3.37	M
37 Isopropyl ether	45		3.030					ND	
38 2-Chloro-1,3-butadiene	53		3.050					ND	
139 Halothane	117		3.061					ND	
40 1,1-Dimethoxyethane	75		3.102					ND	
41 Tert-butyl ethyl ether	59		3.320					ND	
45 Ethyl acetate	43		3.558					ND	
46 Propionitrile	54		3.620					ND	
49 Methacrylonitrile	41	3.703	3.703	0.000	96	33244	4.00	4.33	
152 Isooctane	57		4.118					ND	
58 Tert-amyl methyl ether	73		4.190					ND	
147 t-Amyl alcohol	59	4.221	4.221	0.000	71	13524	12.0	11.9	
1 1,4-Difluorobenzene	114		4.429					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.522					ND	
61 n-Butanol	56		4.667					ND	
140 2,4,4-Trimethyl-2-pentene	97		4.709					ND	
142 Ethyl acrylate	55		4.719					ND	
64 Methyl methacrylate	41	4.895	4.895	0.000	95	8361	0.8000	0.8834	
68 2-Nitropropane	43		5.237					ND	
70 Epichlorohydrin	57		5.330					ND	
74 2-Methylthiophene	97		5.672					ND	
76 3-Methylthiophene	97		5.797					ND	
155 n-Butyl acetate	43		6.201					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55		6.626					ND	
85 3-Chlorobenzotrifluoride	180		6.636					ND	
87 4-Chlorobenzotrifluoride	180		6.688					ND	
94 2-Chlorobenzotrifluoride	180		7.361					ND	
96 Cyclohexanone	55		7.558					ND	
103 3-Chlorotoluene	126		7.880					ND	
108 Pentachloroethane	167		8.191					ND	
112 Dicyclopentadiene	66		8.481					ND	
114 1,2,3-Trimethylbenzene	105		8.532					ND	
150 Benzyl chloride	126		8.636					ND	
118 1,3,5-Trichlorobenzene	180		9.600					ND	
149 2-Methylnaphthalene	142		11.237					ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00013	Amount Added: 0.40	Units: uL
3_MCP_Add_WRK_00037	Amount Added: 0.40	Units: uL
2MTP_WRK_00035	Amount Added: 0.40	Units: uL
3MTP_WRK_00038	Amount Added: 0.40	Units: uL
T_8260_IS_00079	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4577.D

Injection Date: 25-Aug-2014 20:29:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 7

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

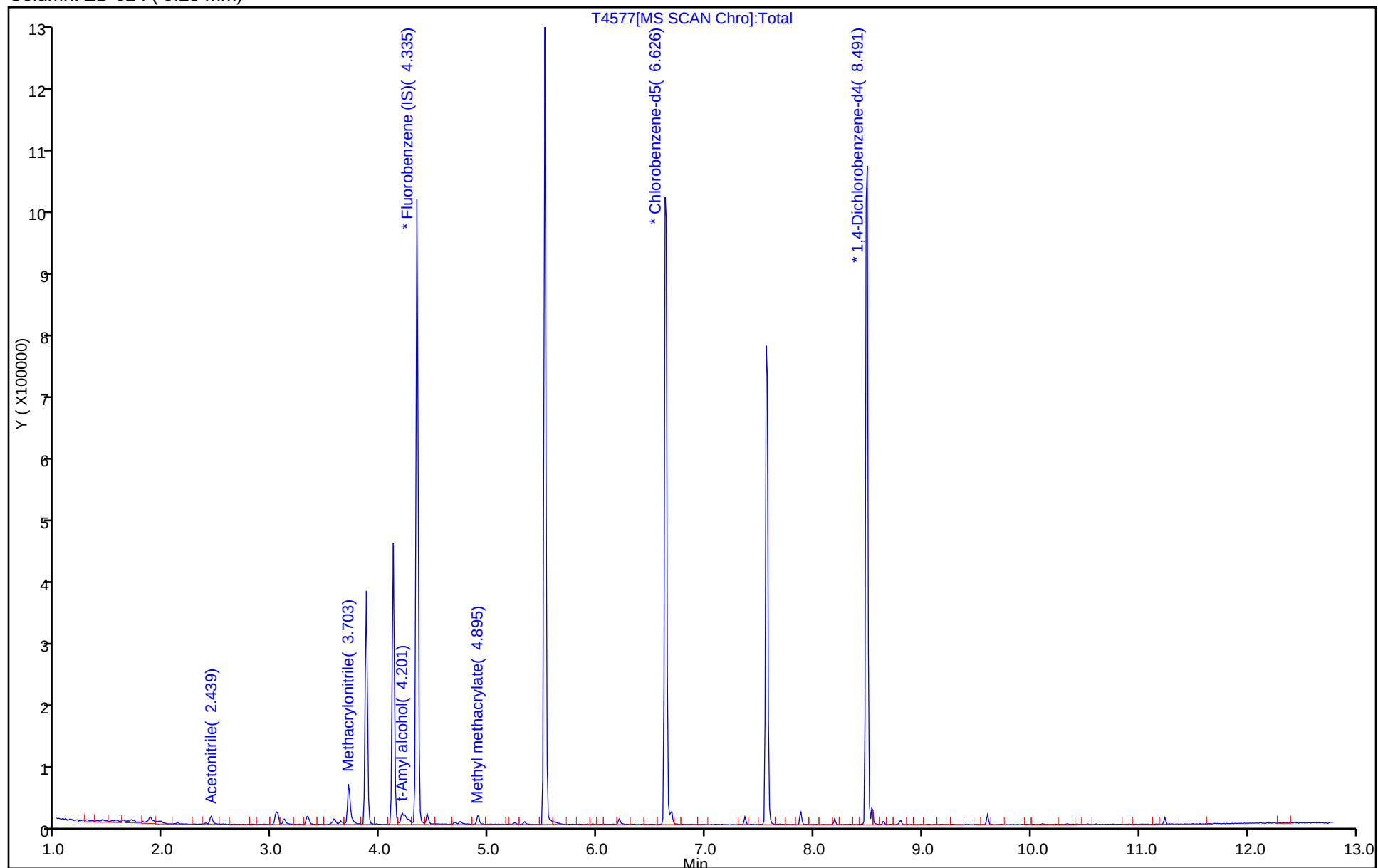
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4577.D

Injection Date: 25-Aug-2014 20:29:30

Instrument ID: HP5975T

Lims ID: IC 7

Client ID:

Operator ID: LH

ALS Bottle#:

11

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

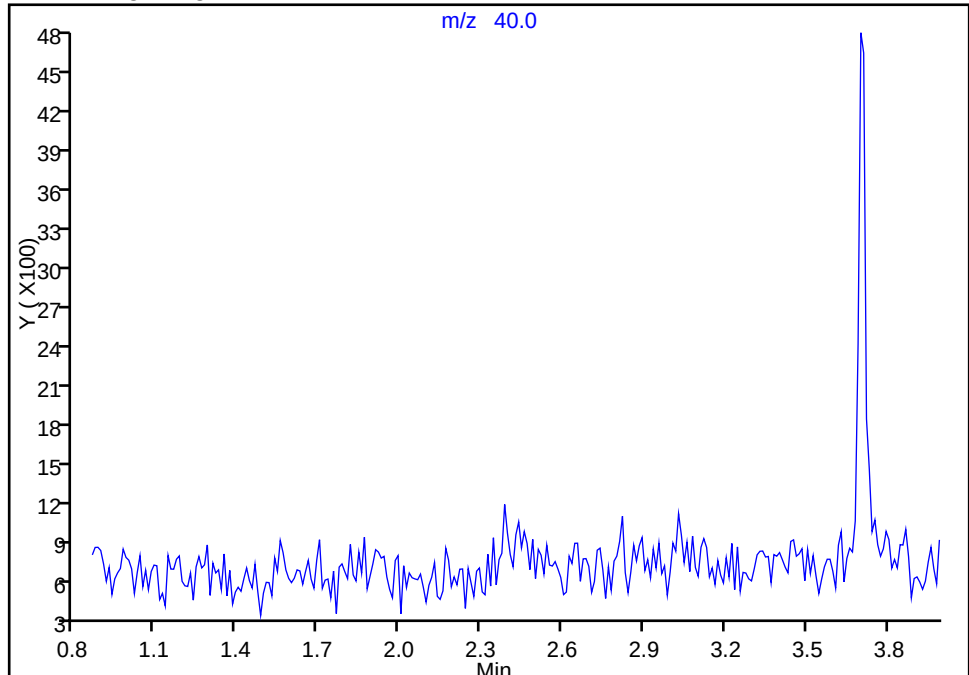
MS SCAN

29 Acetonitrile, CAS: 75-05-8

Not Detected

Expected RT: 2.40

Processing Integration Results

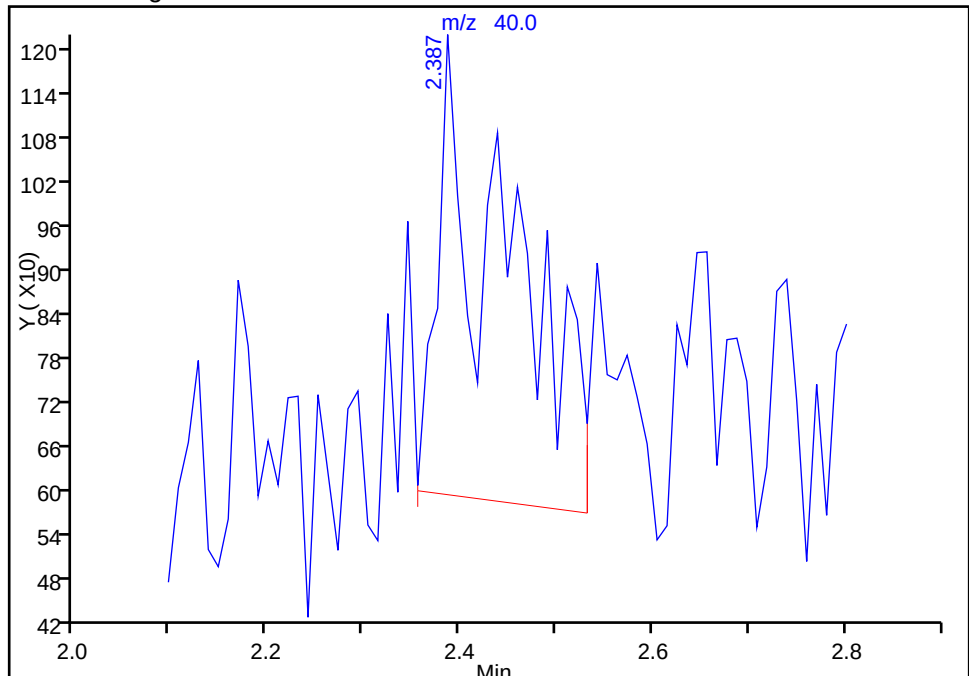


RT: 2.39

Response: 3176

Amount: 3.374364

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:46:31

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4578.D
 Lims ID: IC 8
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 25-Aug-2014 20:53:30 ALS Bottle#: 12 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 8
 Misc. Info.: 480-0034843-019
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:16:02 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: Hilll

Date: 26-Aug-2014 09:48:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	635625	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	89	452180	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	245356	25.0	25.0	
12 Chlorodifluoromethane	51	0.926	0.936	-0.010	95	4183	2.00	5.64	
148 Ethanol	45	1.817	1.828	-0.011	0	6677	50.0	55.9	M
84 Propene oxide	58	1.879	1.879	0.000	95	13767	NC	NC	
26 Isopropyl alcohol	45	2.294	2.294	0.000	44	9121	10.0	10.2	
29 Acetonitrile	40	2.408	2.398	0.010	95	10275	10.0	10.9	M
37 Isopropyl ether	45	3.040	3.030	0.010	95	26709	1.00	0.8898	
38 2-Chloro-1,3-butadiene	53	3.050	3.050	0.000	95	10370	1.00	0.7896	
139 Halothane	117	3.061	3.061	0.000	73	4883	1.00	1.02	
40 1,1-Dimethoxyethane	75	3.113	3.102	0.011	95	6607	5.00	4.52	
41 Tert-butyl ethyl ether	59	3.330	3.320	0.010	99	23771	1.00	0.9300	
45 Ethyl acetate	43	3.569	3.558	0.011	99	20353	2.00	1.87	
46 Propionitrile	54	3.631	3.620	0.011	99	18777	10.0	9.98	
49 Methacrylonitrile	41	3.703	3.703	0.000	97	74839	10.0	9.70	
152 Isooctane	57	4.118	4.118	0.000	36	23713	1.00	0.7887	
58 Tert-amyl methyl ether	73	4.201	4.190	0.011	96	35737	1.00	0.9613	M
147 t-Amyl alcohol	59	4.222	4.221	0.001	89	30885	30.0	27.1	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	96	15899	1.00	0.8365	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	98	7140	NC	NC	
61 n-Butanol	56	4.677	4.667	0.010	71	5718	10.0	36.3	
140 2,4,4-Trimethyl-2-pentene	97	4.709	4.709	0.000	87	14097	NC	NC	
142 Ethyl acrylate	55	4.709	4.719	-0.010	82	29565	1.00	0.9880	
64 Methyl methacrylate	41	4.895	4.895	0.000	93	17744	2.00	1.86	
68 2-Nitropropane	43	5.237	5.237	0.000	95	3523	2.00	1.88	
70 Epichlorohydrin	57	5.330	5.330	0.000	98	11361	10.0	9.48	
74 2-Methylthiophene	97	5.672	5.672	0.000	97	18049	1.00	0.8397	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	22747	1.00	0.99	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	13138	1.00	0.8383	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	84	11860	1.00	1.33	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	53	7785	1.00	0.8230	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	96	7573	1.00	0.8663	
94 2-Chlorobenzotrifluoride	180	7.362	7.361	0.001	94	7532	1.00	0.8186	
96 Cyclohexanone	55	7.569	7.558	0.011	36	5083	10.0	10.6	
103 3-Chlorotoluene	126	7.880	7.880	0.000	96	6986	1.00	0.9080	
108 Pentachloroethane	167	8.191	8.191	0.001	71	1807	1.00	0.7280	
112 Dicyclopentadiene	66	8.481	8.481	0.000	47	31512	1.00	0.8806	
114 1,2,3-Trimethylbenzene	105	8.533	8.532	0.001	97	22768	1.00	0.8023	
150 Benzyl chloride	126	8.636	8.636	0.000	98	1257	1.00	0.7141	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	93	8210	1.00	0.7844	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	89	10350	1.00	1.37	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00013	Amount Added: 1.00	Units: uL
T_8260_IS_00079	Amount Added: 1.00	Units: uL
3_MCP_Add_WRK_00037	Amount Added: 1.00	Units: uL
2MTP_WRK_00035	Amount Added: 1.00	Units: uL
3MTP_WRK_00038	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4578.D

Injection Date: 25-Aug-2014 20:53:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 8

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

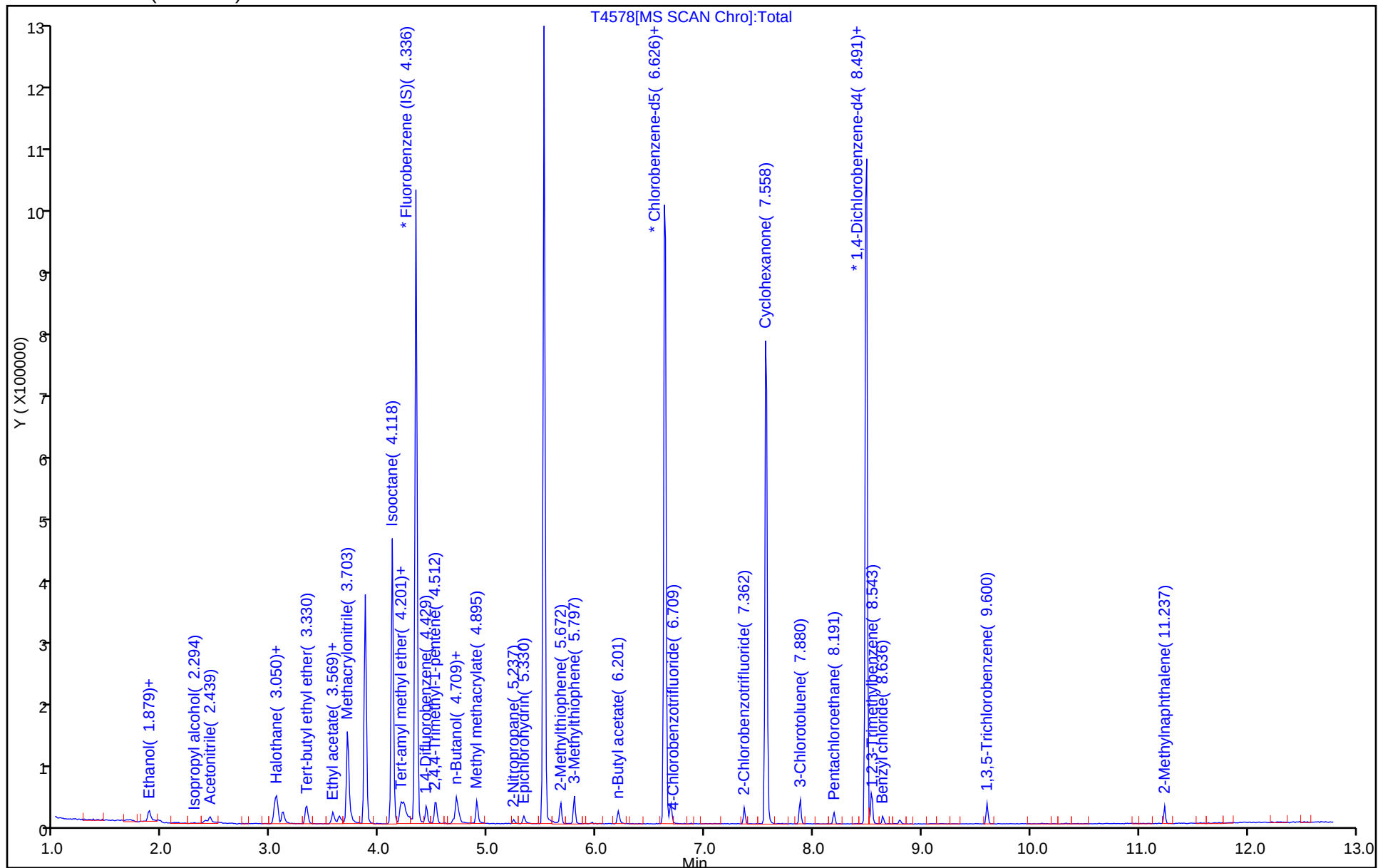
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4578.D

Injection Date: 25-Aug-2014 20:53:30

Instrument ID: HP5975T

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#:

12

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

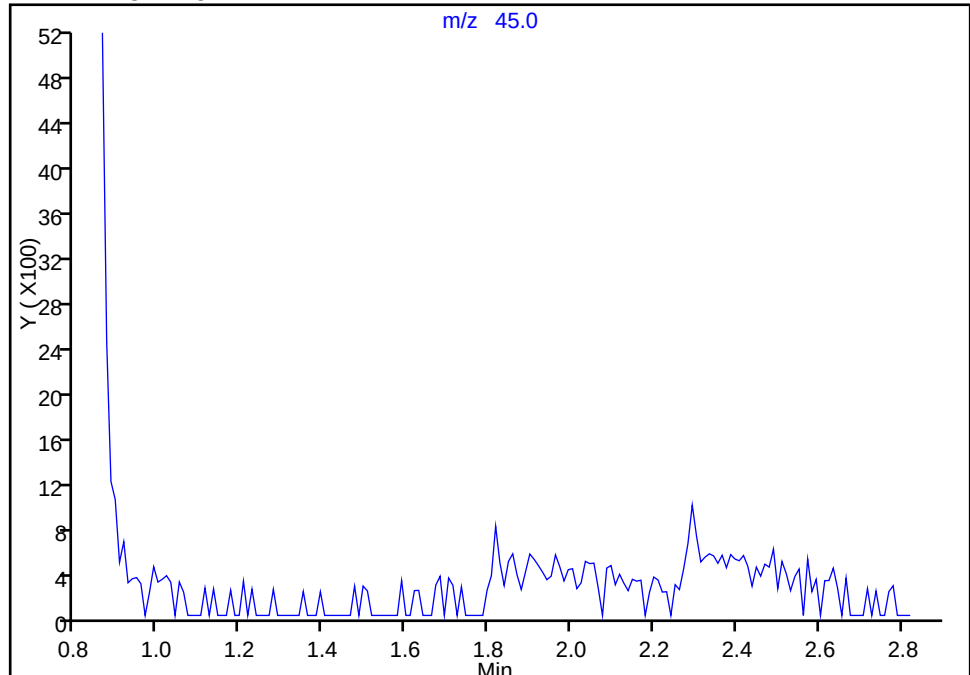
Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

Not Detected

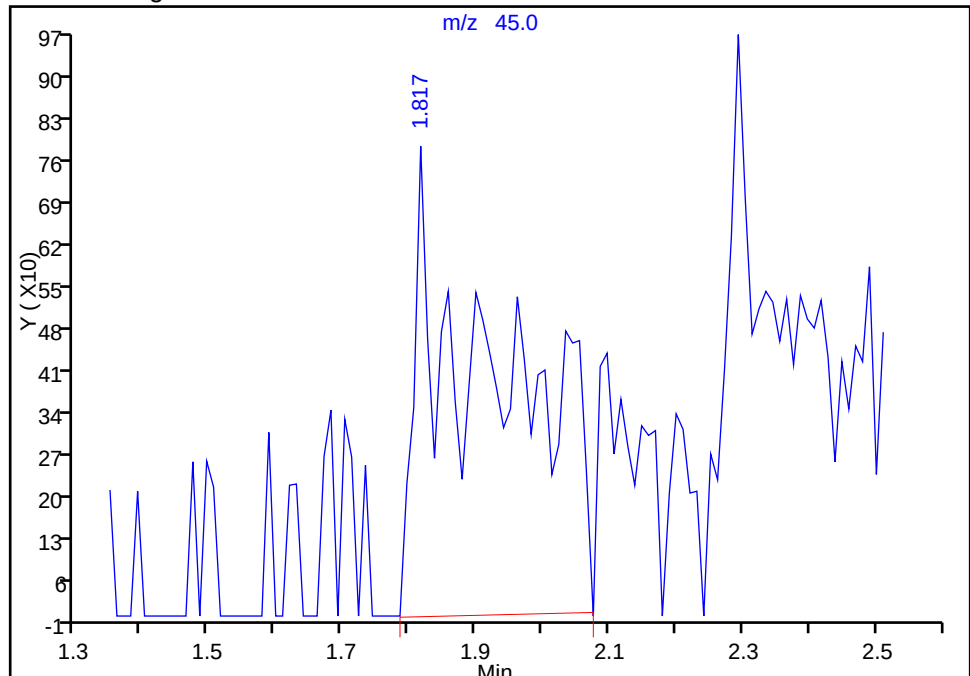
Expected RT: 1.83

Processing Integration Results



RT: 1.82
Response: 6677
Amount: 55.928088

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:48:21

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4578.D

Injection Date: 25-Aug-2014 20:53:30

Instrument ID: HP5975T

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#:

12

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

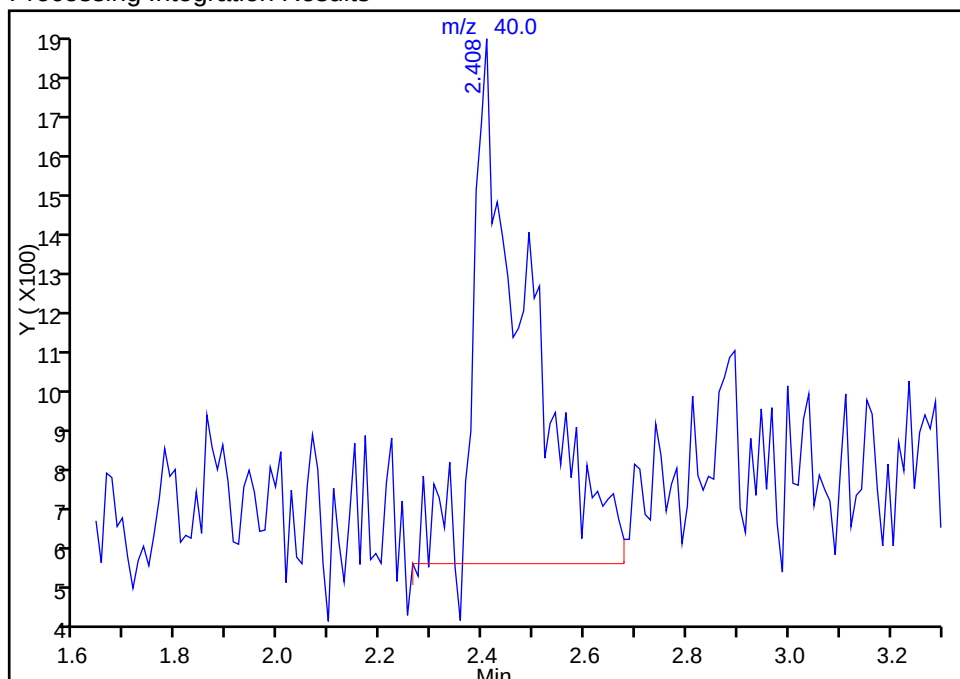
Detector

MS SCAN

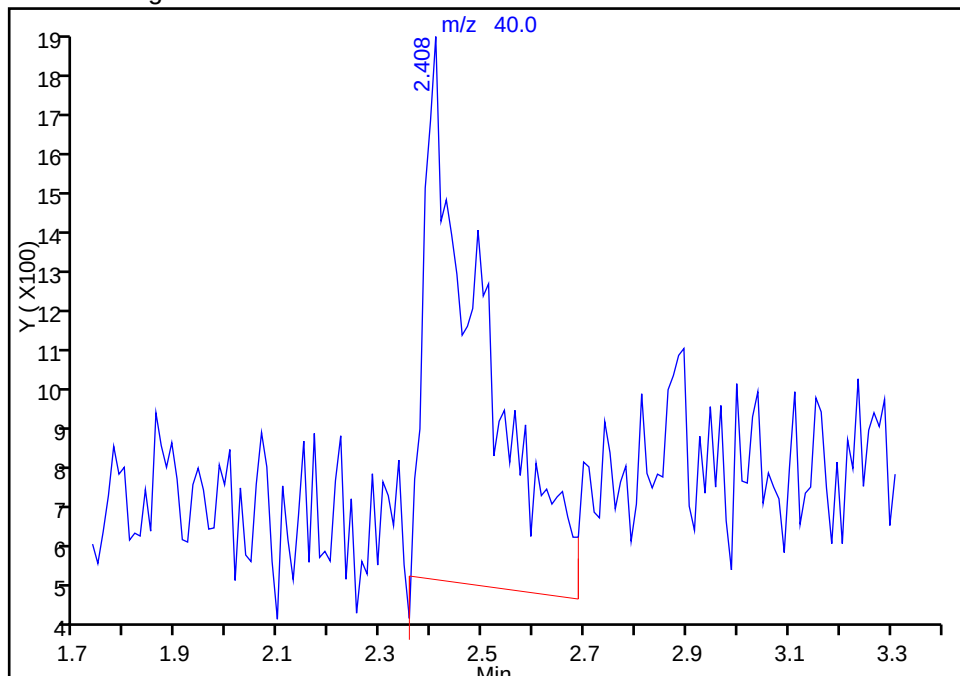
29 Acetonitrile, CAS: 75-05-8

RT: 2.41
Response: 9455
Amount: 10.522975

Processing Integration Results

RT: 2.41
Response: 10275
Amount: 10.852307

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:48:21

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4578.D

Injection Date: 25-Aug-2014 20:53:30

Instrument ID: HP5975T

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#:

12

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

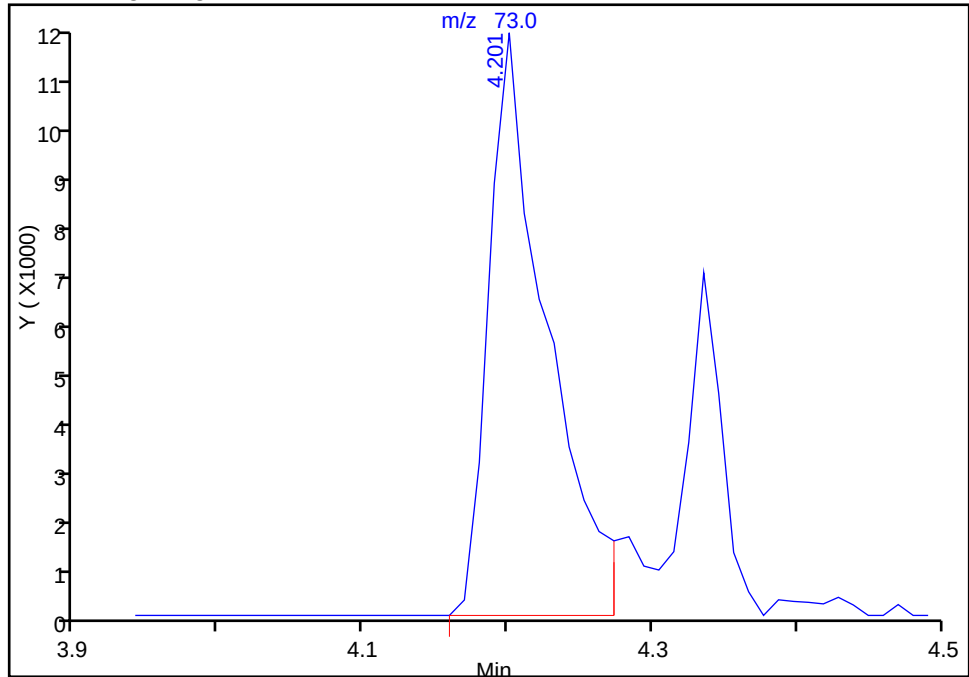
Detector

MS SCAN

58 Tert-amyl methyl ether, CAS: 994-05-8

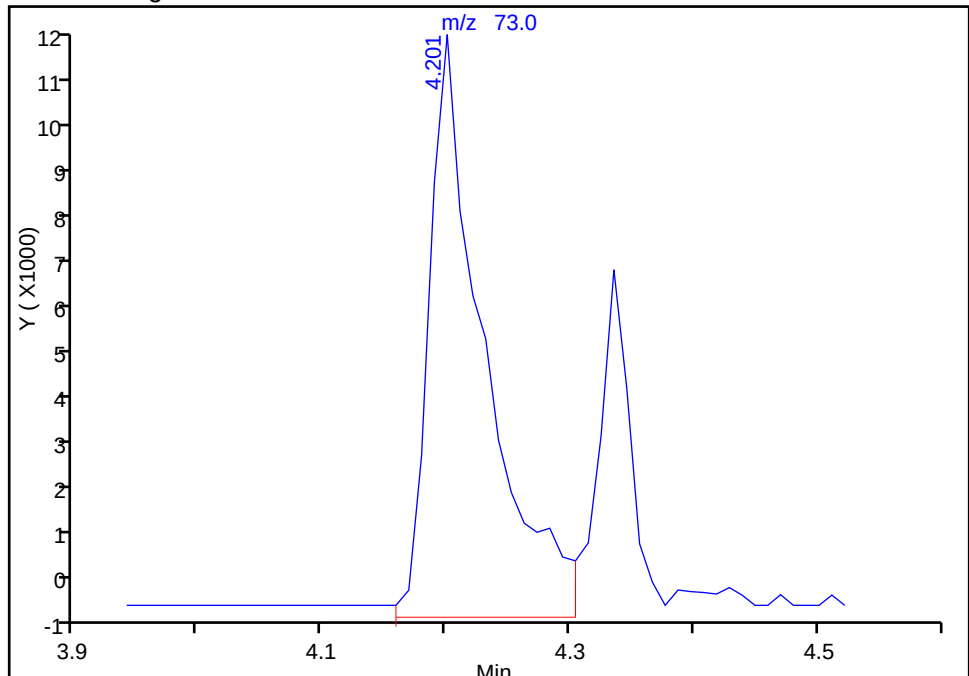
RT: 4.20
Response: 31456
Amount: 0.862676

Processing Integration Results



RT: 4.20
Response: 35737
Amount: 0.961272

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:48:21

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4579.D
 Lims ID: IC 9
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 25-Aug-2014 21:17:30 ALS Bottle#: 13 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 9
 Misc. Info.: 480-0034843-020
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:17:21 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 26-Aug-2014 09:49:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.336	-0.001	98	646618	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	90	462226	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	98	245770	25.0	25.0	
12 Chlorodifluoromethane	51	0.926	0.936	-0.010	98	43848	10.0	11.8	
148 Ethanol	45	1.817	1.828	-0.011	88	28890	250.0	237.9	M
84 Propene oxide	58	1.869	1.879	-0.010	96	68221	NC	NC	
26 Isopropyl alcohol	45	2.294	2.294	0.000	96	41831	50.0	45.8	
29 Acetonitrile	40	2.398	2.398	0.000	98	56686	50.0	58.9	M
37 Isopropyl ether	45	3.030	3.030	0.000	96	155118	5.00	5.08	
38 2-Chloro-1,3-butadiene	53	3.050	3.050	0.000	95	68473	5.00	5.13	
139 Halothane	117	3.061	3.061	0.000	93	24737	5.00	5.09	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	97	35485	25.0	23.9	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	98	126762	5.00	4.88	
45 Ethyl acetate	43	3.569	3.558	0.011	99	110365	10.0	9.98	
46 Propionitrile	54	3.620	3.620	0.000	99	93521	50.0	48.9	
49 Methacrylonitrile	41	3.703	3.703	0.000	96	384691	50.0	49.0	
152 Isooctane	57	4.118	4.118	0.000	68	158642	5.00	5.19	
58 Tert-amyl methyl ether	73	4.201	4.190	0.011	94	172824	5.00	4.57	
147 t-Amyl alcohol	59	4.221	4.221	0.000	89	162613	150.0	140.1	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	96	100210	5.00	5.18	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	33047	NC	NC	
61 n-Butanol	56	4.677	4.667	0.010	81	20536	50.0	56.9	M
140 2,4,4-Trimethyl-2-pentene	97	4.708	4.709	-0.001	91	69686	NC	NC	
142 Ethyl acrylate	55	4.729	4.719	0.010	97	149493	5.00	4.91	
64 Methyl methacrylate	41	4.895	4.895	0.000	95	89711	10.0	9.26	
68 2-Nitropropane	43	5.237	5.237	0.000	98	17893	10.0	9.55	
70 Epichlorohydrin	57	5.330	5.330	0.000	99	61575	50.0	50.5	
74 2-Methylthiophene	97	5.672	5.672	0.000	98	110633	5.00	5.14	
76 3-Methylthiophene	97	5.797	5.797	0.000	99	112987	5.00	4.92	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	81386	5.00	5.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	84	45262	5.00	4.97	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	93	48838	5.00	5.15	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	96	43980	5.00	5.02	
94 2-Chlorobenzotrifluoride	180	7.361	7.361	0.000	95	46757	5.00	5.07	
96 Cyclohexanone	55	7.558	7.558	0.000	40	23782	50.0	49.4	
103 3-Chlorotoluene	126	7.880	7.880	0.000	97	40500	5.00	5.25	
108 Pentachloroethane	167	8.190	8.191	0.000	78	11946	5.00	4.80	
112 Dicyclopentadiene	66	8.481	8.481	0.000	70	175298	5.00	4.89	
114 1,2,3-Trimethylbenzene	105	8.532	8.532	0.000	99	142673	5.00	5.02	
150 Benzyl chloride	126	8.636	8.636	0.000	100	8991	5.00	5.00	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	97	53725	5.00	5.12	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	93	66451	5.00	4.33	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00013	Amount Added: 5.00	Units: uL
T_8260_IS_00079	Amount Added: 1.00	Units: uL
3_MCP_Add_WRK_00037	Amount Added: 5.00	Units: uL
2MTP_WRK_00035	Amount Added: 5.00	Units: uL
3MTP_WRK_00038	Amount Added: 5.00	Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4579.D

Injection Date: 25-Aug-2014 21:17:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 9

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

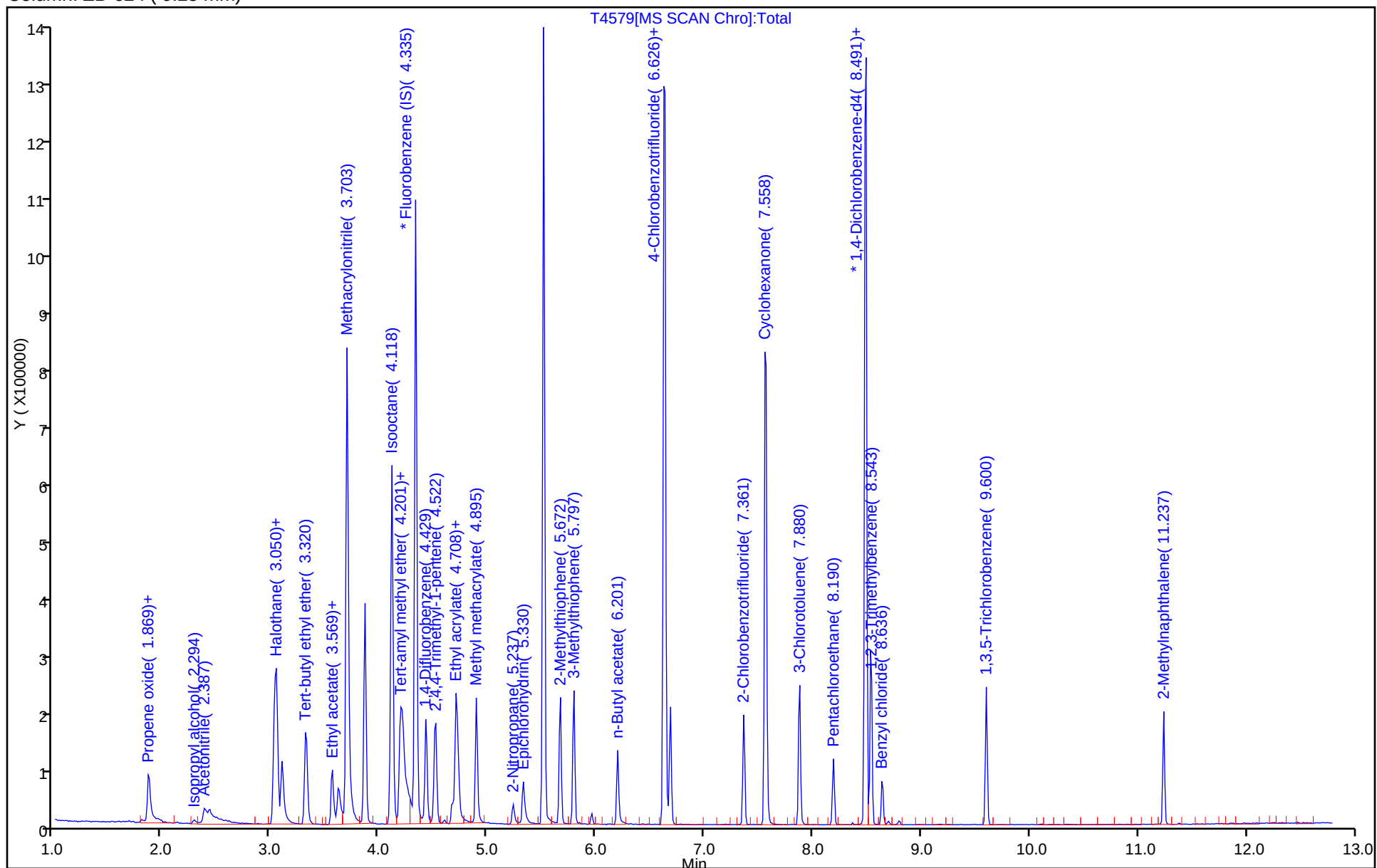
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4579.D

Injection Date: 25-Aug-2014 21:17:30

Instrument ID: HP5975T

Lims ID: IC 9

Client ID:

Operator ID: LH

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

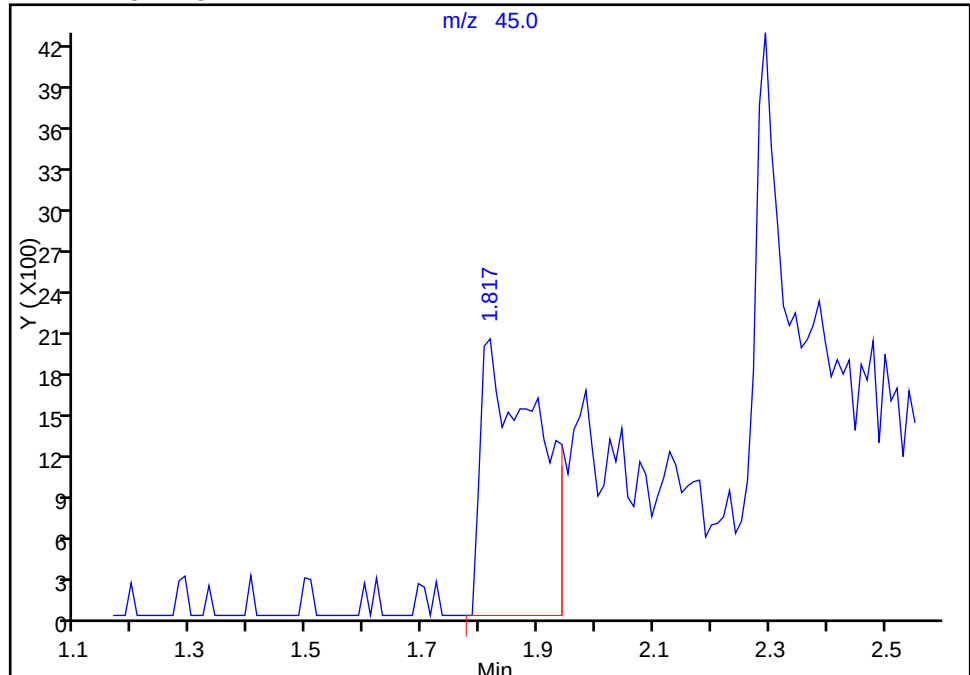
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

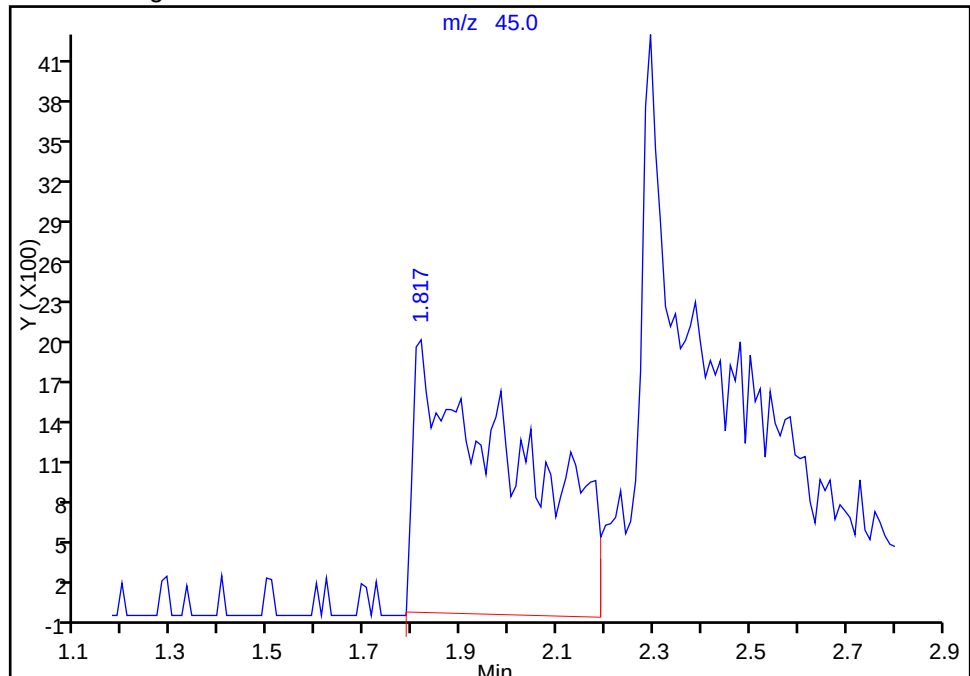
RT: 1.82
Response: 13413
Amount: 192.4194

Processing Integration Results



RT: 1.82
Response: 28890
Amount: 237.8753

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:49:09
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4579.D

Injection Date: 25-Aug-2014 21:17:30

Instrument ID: HP5975T

Lims ID: IC 9

Client ID:

Operator ID: LH

ALS Bottle#:

13

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

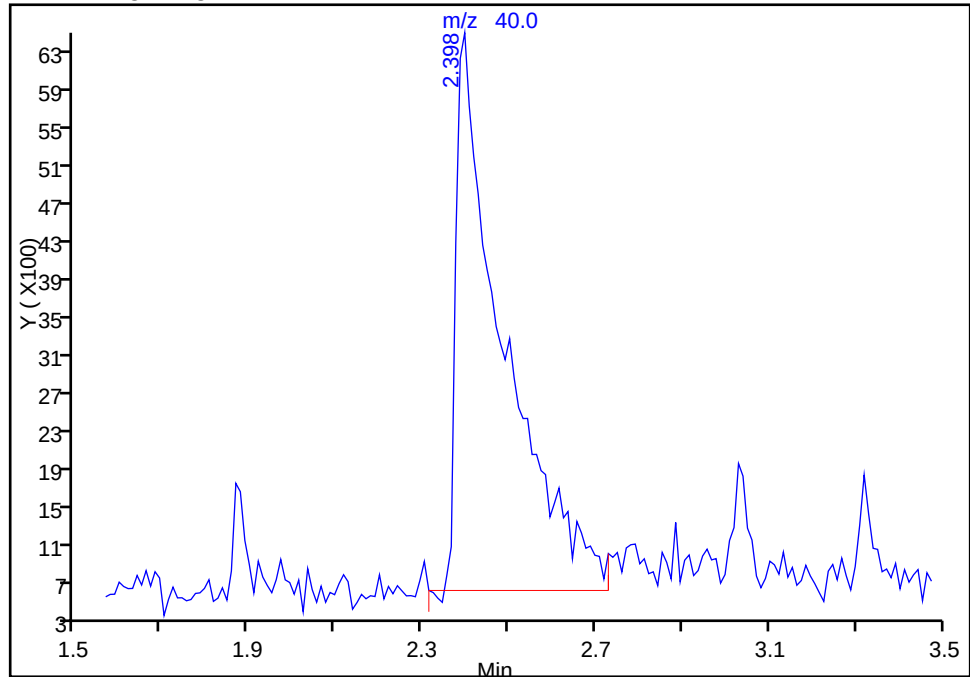
Detector

MS SCAN

29 Acetonitrile, CAS: 75-05-8

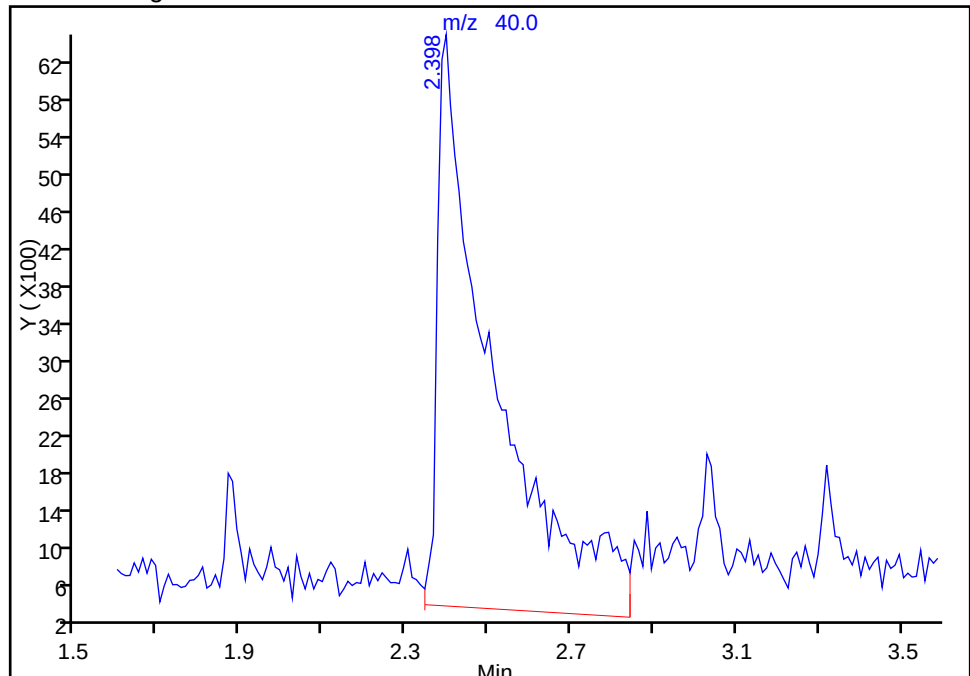
RT: 2.40
Response: 43662
Amount: 47.152888

Processing Integration Results



RT: 2.40
Response: 56686
Amount: 58.853086

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:49:09

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4579.D

Injection Date: 25-Aug-2014 21:17:30

Instrument ID: HP5975T

Lims ID: IC 9

Client ID:

Operator ID: LH

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

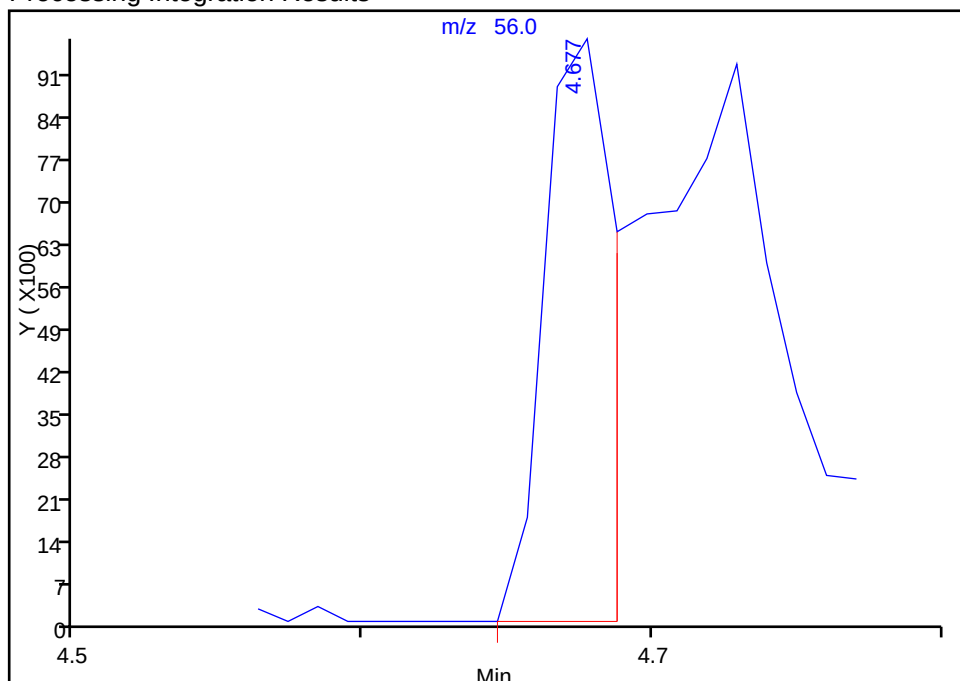
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

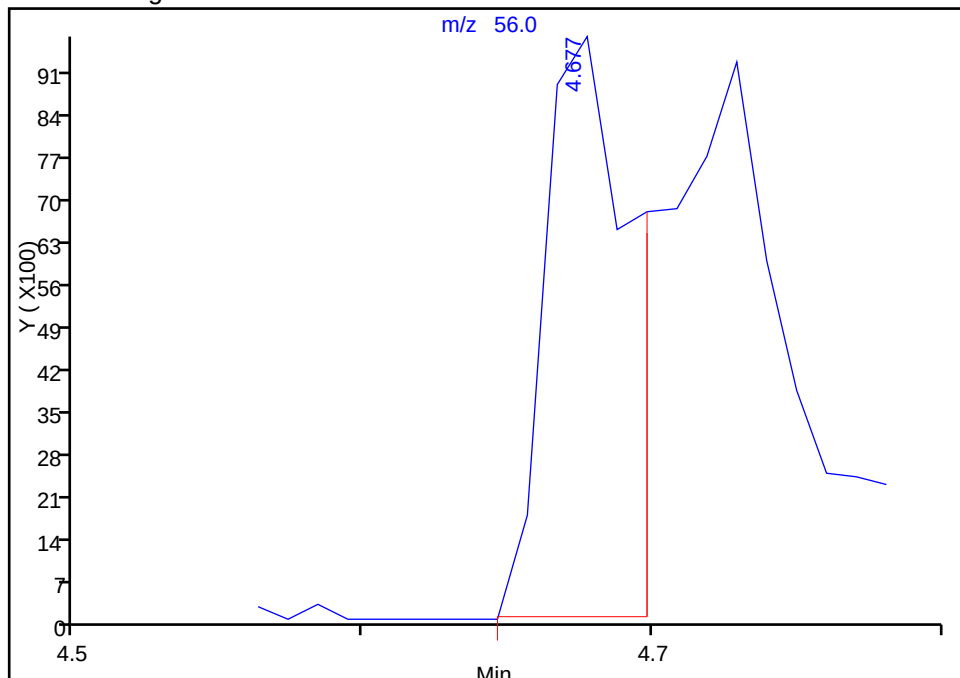
RT: 4.68
Response: 16514
Amount: 53.119179

Processing Integration Results



RT: 4.68
Response: 20536
Amount: 56.886506

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:31:12

Audit Action: Manually Integrated

Audit Reason: Coelution

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4580.D
 Lims ID: IC 10
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 25-Aug-2014 21:41:30 ALS Bottle#: 14 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 10
 Misc. Info.: 480-0034843-021
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:18:03 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 26-Aug-2014 09:49:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	98	646357	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	90	460696	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	244406	25.0	25.0	
12 Chlorodifluoromethane	51	0.926	0.926	0.000	99	90554	20.0	19.0	
148 Ethanol	45	1.931	1.931	0.000	54	56995	500.0	469.5	M
84 Propene oxide	58	1.869	1.869	0.000	96	133388	NC	NC	
26 Isopropyl alcohol	45	2.294	2.294	0.000	97	85684	100.0	93.9	
29 Acetonitrile	40	2.398	2.398	0.000	100	89673	100.0	93.1	
37 Isopropyl ether	45	3.030	3.030	0.000	96	296334	10.0	9.71	
38 2-Chloro-1,3-butadiene	53	3.050	3.050	0.000	94	130944	10.0	9.81	
139 Halothane	117	3.061	3.061	0.000	93	44942	10.0	9.24	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	96	70421	50.0	47.4	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	98	253686	10.0	9.76	
45 Ethyl acetate	43	3.569	3.569	0.000	99	214275	20.0	19.4	
46 Propionitrile	54	3.620	3.620	0.000	99	183821	100.0	96.1	
49 Methacrylonitrile	41	3.703	3.703	0.000	96	759711	100.0	96.8	
152 Isooctane	57	4.118	4.118	0.000	97	301886	10.0	9.87	
58 Tert-amyl methyl ether	73	4.201	4.201	0.000	94	348155	10.0	9.21	
147 t-Amyl alcohol	59	4.221	4.221	0.000	91	332130	300.0	286.3	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	96	188714	10.0	9.76	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	64032	NC	NC	
61 n-Butanol	56	4.667	4.667	0.000	88	44995	100.0	91.1	M
140 2,4,4-Trimethyl-2-pentene	97	4.708	4.708	0.000	97	125664	NC	NC	
142 Ethyl acrylate	55	4.729	4.729	0.000	97	269999	10.0	8.87	
64 Methyl methacrylate	41	4.895	4.895	0.000	95	191051	20.0	19.7	
68 2-Nitropropane	43	5.237	5.237	0.000	97	34290	20.0	18.4	
70 Epichlorohydrin	57	5.330	5.330	0.000	100	116266	100.0	95.4	
74 2-Methylthiophene	97	5.672	5.672	0.000	97	204697	10.0	9.56	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	212342	10.0	9.30	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	156891	10.0	9.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	87	83326	10.0	9.18	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	91	91661	10.0	9.73	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	96	84433	10.0	9.70	
94 2-Chlorobenzotrifluoride	180	7.361	7.361	0.000	97	88451	10.0	9.65	
96 Cyclohexanone	55	7.558	7.558	0.000	44	44323	100.0	92.7	
103 3-Chlorotoluene	126	7.880	7.880	0.000	97	73271	10.0	9.56	
108 Pentachloroethane	167	8.190	8.190	0.000	80	24420	10.0	9.88	
112 Dicyclopentadiene	66	8.481	8.481	0.000	92	333974	10.0	9.37	
114 1,2,3-Trimethylbenzene	105	8.532	8.532	0.000	99	280089	10.0	9.91	
150 Benzyl chloride	126	8.636	8.636	0.000	100	17288	10.0	9.64	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	97	100396	10.0	9.63	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	93	139472	10.0	8.22	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00013	Amount Added: 5.00	Units: uL
T_8260_IS_00079	Amount Added: 1.00	Units: uL
3_MCP_Add_WRK_00037	Amount Added: 5.00	Units: uL
2MTP_WRK_00035	Amount Added: 5.00	Units: uL
3MTP_WRK_00038	Amount Added: 5.00	Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4580.D

Injection Date: 25-Aug-2014 21:41:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 10

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

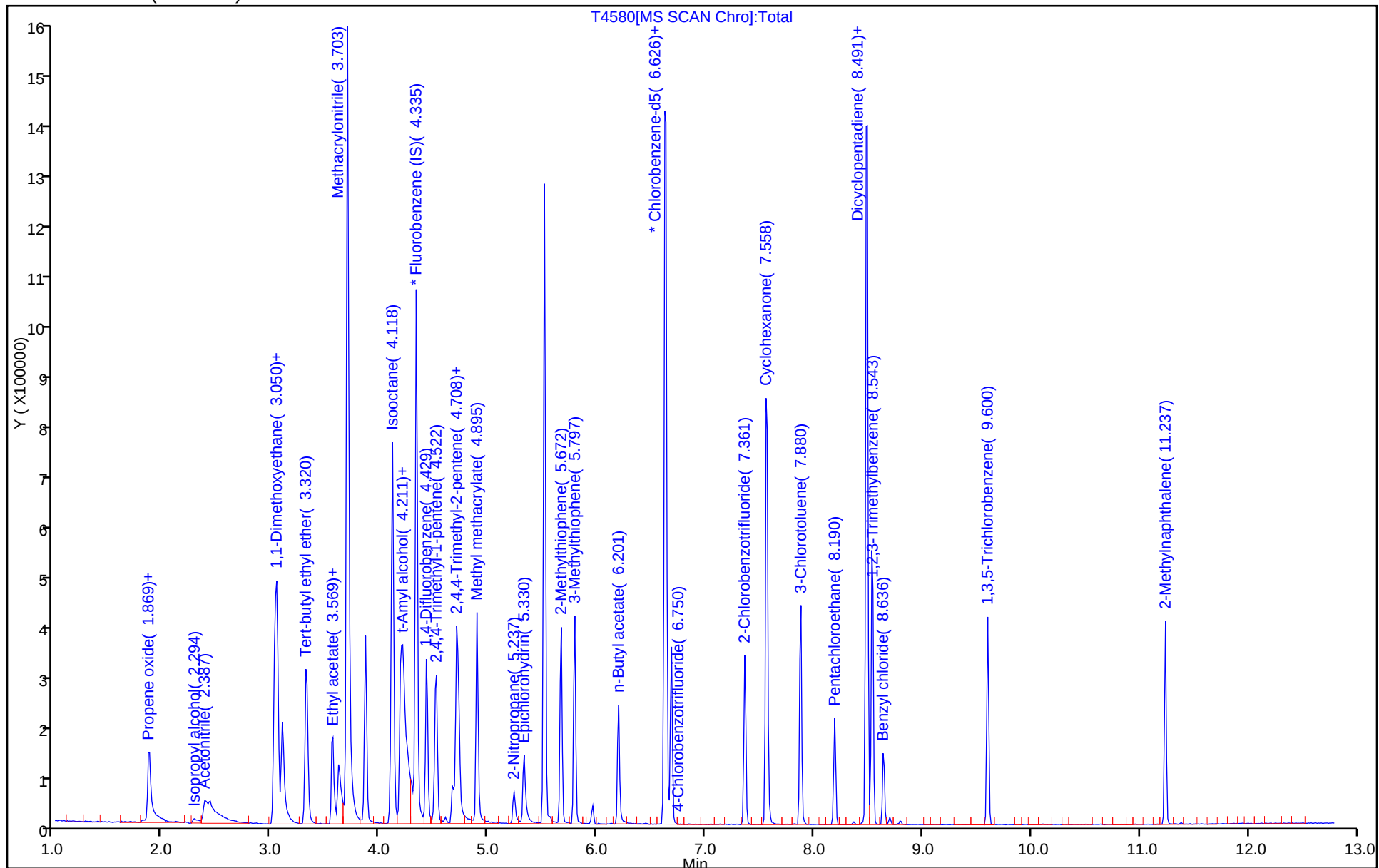
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4580.D

Injection Date: 25-Aug-2014 21:41:30

Instrument ID: HP5975T

Lims ID: IC 10

Client ID:

Operator ID: LH

ALS Bottle#: 14

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

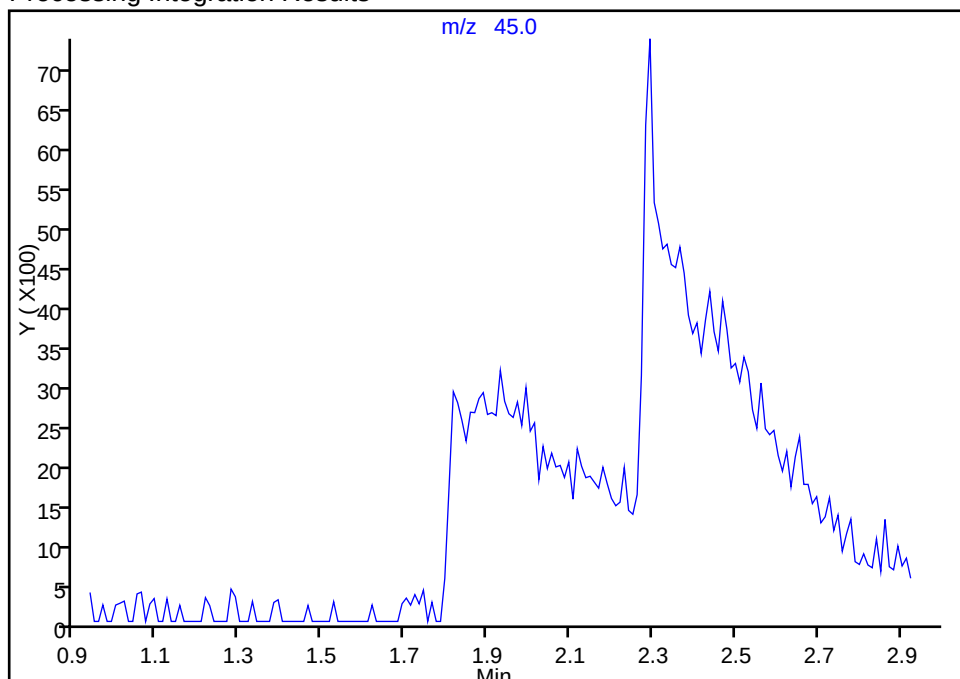
Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

Not Detected

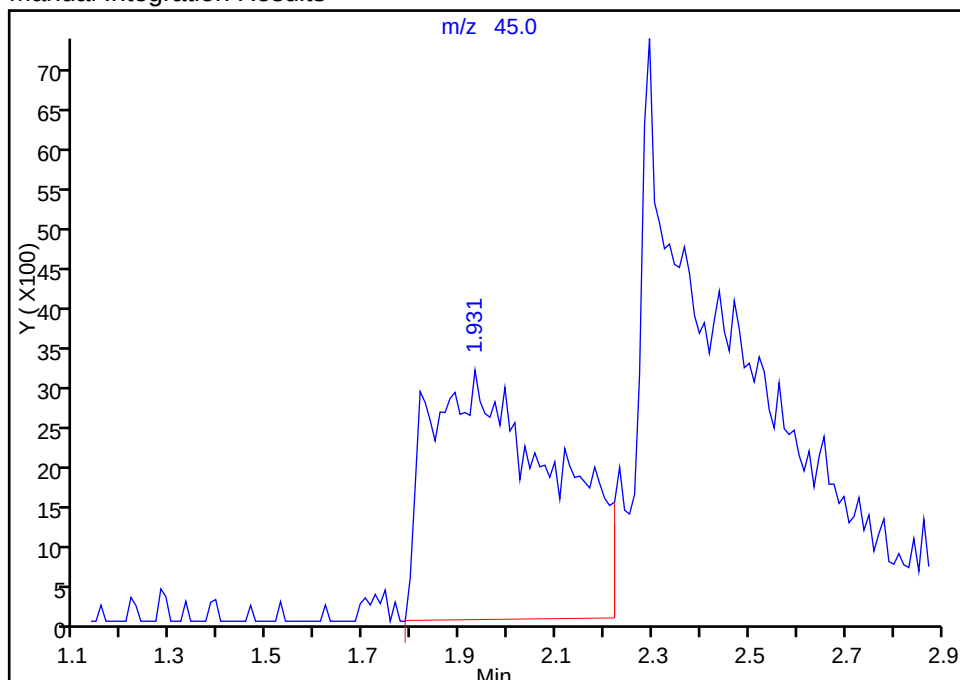
Expected RT: 1.93

Processing Integration Results



RT: 1.93
Response: 56995
Amount: 469.4765

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:49:58

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4580.D

Injection Date: 25-Aug-2014 21:41:30

Instrument ID: HP5975T

Lims ID: IC 10

Client ID:

Operator ID: LH

ALS Bottle#:

14

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

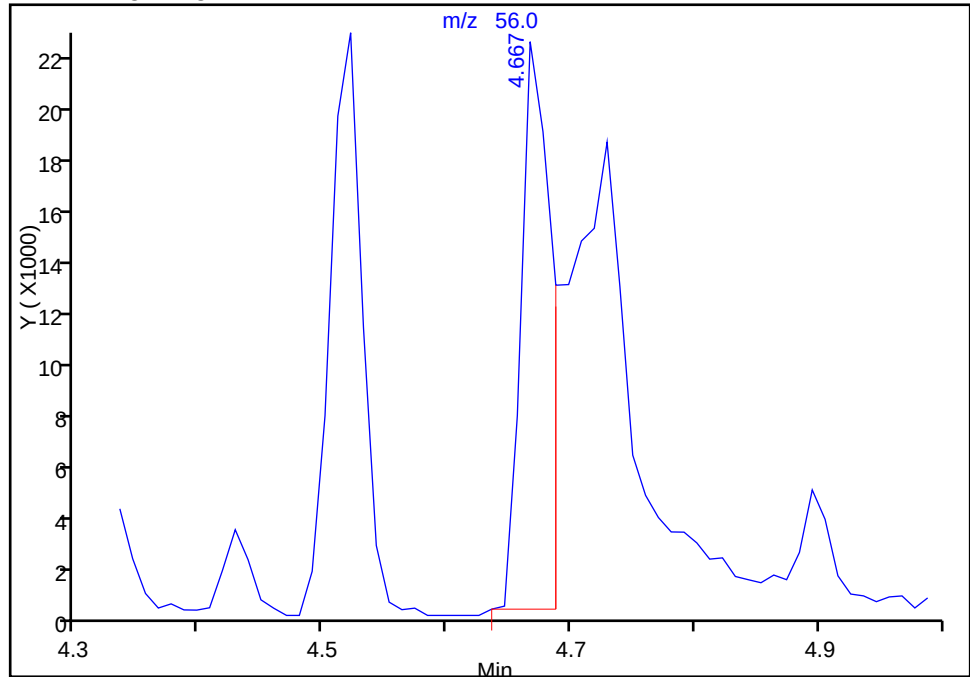
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

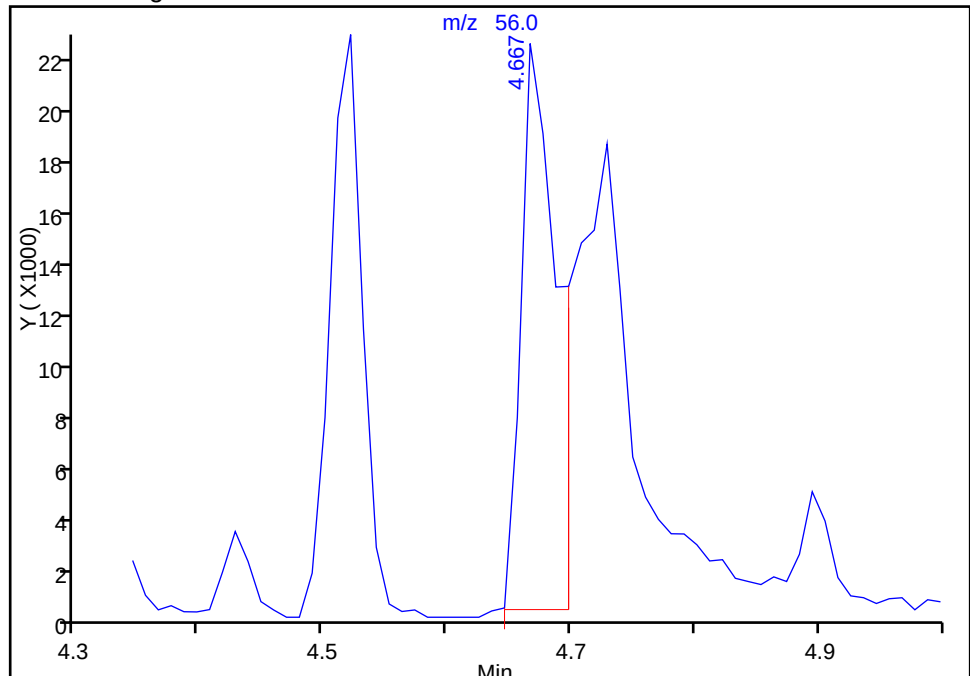
RT: 4.67
Response: 37431
Amount: 72.212013

Processing Integration Results



RT: 4.67
Response: 44995
Amount: 91.076041

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:31:53

Audit Action: Manually Integrated

Audit Reason: Coelution

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4581.D
 Lims ID: IC 11
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 25-Aug-2014 22:05:30 ALS Bottle#: 15 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 11
 Misc. Info.: 480-0034843-022
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:19:14 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 26-Aug-2014 09:50:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	98	659197	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	89	469436	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	73	249646	25.0	25.0	
12 Chlorodifluoromethane	51	0.936	0.936	0.000	98	249575	50.0	42.8	
148 Ethanol	45	1.828	1.828	0.000	35	149116	1250.0	1204.4	M
84 Propene oxide	58	1.879	1.879	0.000	96	348808	NC	NC	
26 Isopropyl alcohol	45	2.294	2.294	0.000	98	237380	250.0	255.1	
29 Acetonitrile	40	2.398	2.398	0.000	100	246805	250.0	251.4	
37 Isopropyl ether	45	3.030	3.030	0.000	97	802729	25.0	25.8	
38 2-Chloro-1,3-butadiene	53	3.050	3.050	0.000	95	360203	25.0	26.4	
139 Halothane	117	3.061	3.061	0.000	93	124234	25.0	25.1	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	96	190677	125.0	125.9	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	98	679711	25.0	25.6	
45 Ethyl acetate	43	3.558	3.558	0.000	99	565584	50.0	50.2	
46 Propionitrile	54	3.620	3.620	0.000	99	494240	250.0	253.3	
49 Methacrylonitrile	41	3.703	3.703	0.000	96	1986237	250.0	248.3	
152 Isooctane	57	4.118	4.118	0.000	97	820050	25.0	26.3	
58 Tert-amyl methyl ether	73	4.190	4.190	0.000	93	966396	25.0	25.1	
147 t-Amyl alcohol	59	4.221	4.221	0.000	90	903679	750.0	763.9	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	96	514583	25.0	26.1	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	160366	NC	NC	
61 n-Butanol	56	4.667	4.667	0.000	90	138896	250.0	218.5	
140 2,4,4-Trimethyl-2-pentene	97	4.709	4.709	0.000	97	377347	NC	NC	
142 Ethyl acrylate	55	4.719	4.719	0.000	97	791918	25.0	25.5	
64 Methyl methacrylate	41	4.895	4.895	0.000	95	497993	50.0	50.4	
68 2-Nitropropane	43	5.237	5.237	0.000	98	92860	50.0	48.8	
70 Epichlorohydrin	57	5.330	5.330	0.000	100	317511	250.0	255.6	
74 2-Methylthiophene	97	5.672	5.672	0.000	98	573276	25.0	26.2	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	588890	25.0	25.2	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	427468	25.0	26.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	86	216199	25.0	23.4	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	93	252094	25.0	26.2	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	97	232243	25.0	26.1	
94 2-Chlorobenzotrifluoride	180	7.361	7.361	0.000	96	246634	25.0	26.3	
96 Cyclohexanone	55	7.558	7.558	0.000	94	121531	250.0	248.7	
103 3-Chlorotoluene	126	7.880	7.880	0.000	98	200193	25.0	25.6	
108 Pentachloroethane	167	8.191	8.191	0.000	82	68049	25.0	26.9	
112 Dicyclopentadiene	66	8.481	8.481	0.000	97	934153	25.0	25.7	
114 1,2,3-Trimethylbenzene	105	8.532	8.532	0.000	99	759026	25.0	26.3	
150 Benzyl chloride	126	8.636	8.636	0.000	99	46696	25.0	25.6	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	97	282083	25.0	26.5	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	93	420758	25.0	22.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00013

Amount Added: 12.50

Units: uL

T_8260_IS_00079

Amount Added: 1.00

Units: uL

3_MCP_Add_WRK_00037

Amount Added: 12.50

Units: uL

2MTP_WRK_00035

Amount Added: 12.50

Units: uL

3MTP_WRK_00038

Amount Added: 12.50

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4581.D

Injection Date: 25-Aug-2014 22:05:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 11

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

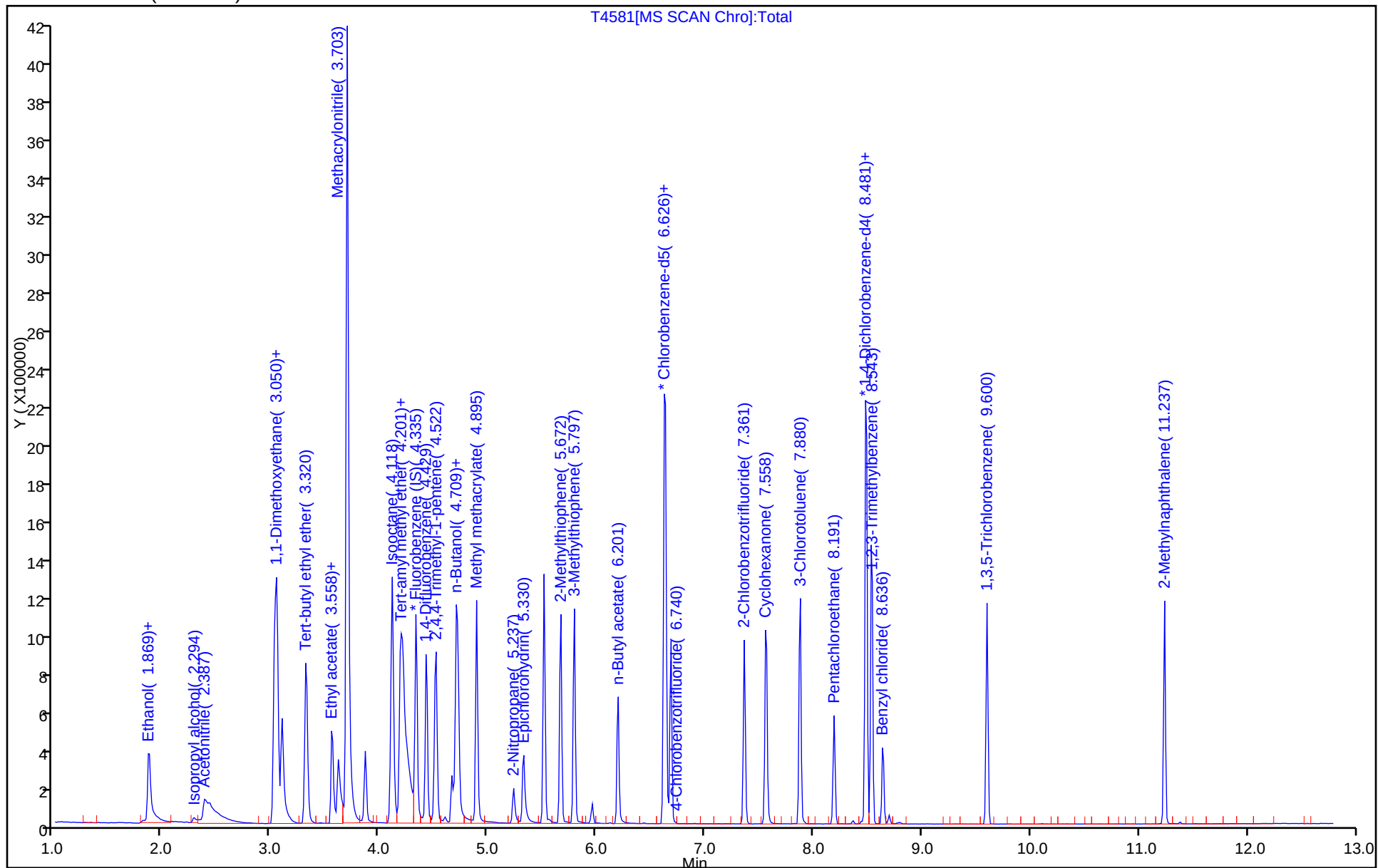
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4581.D

Injection Date: 25-Aug-2014 22:05:30

Instrument ID: HP5975T

Lims ID: IC 11

Client ID:

Operator ID: LH

ALS Bottle#:

15

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

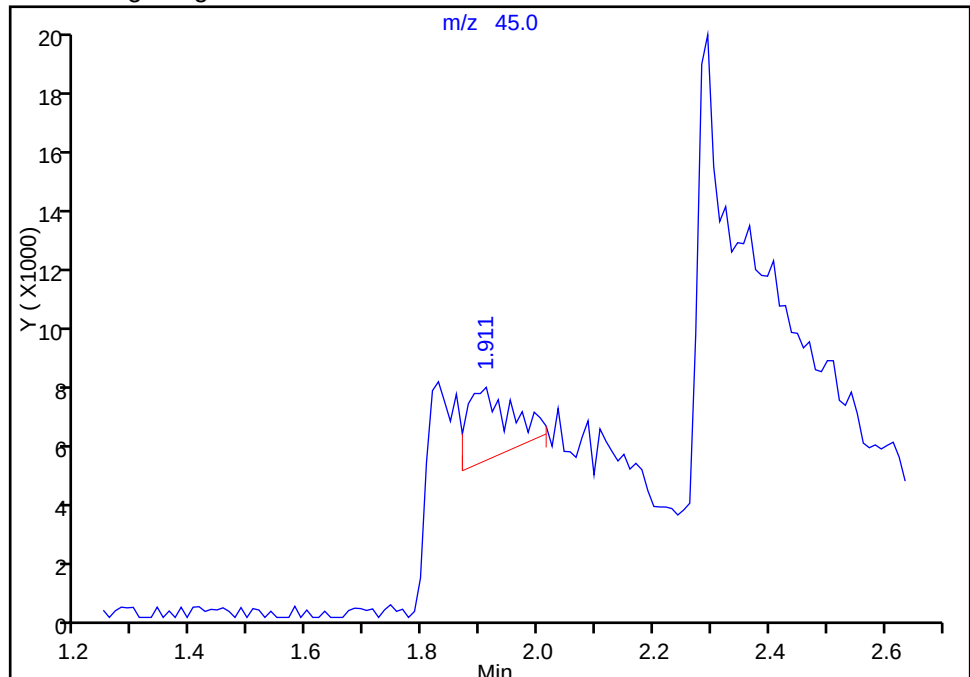
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

148 Ethanol, CAS: 64-17-5

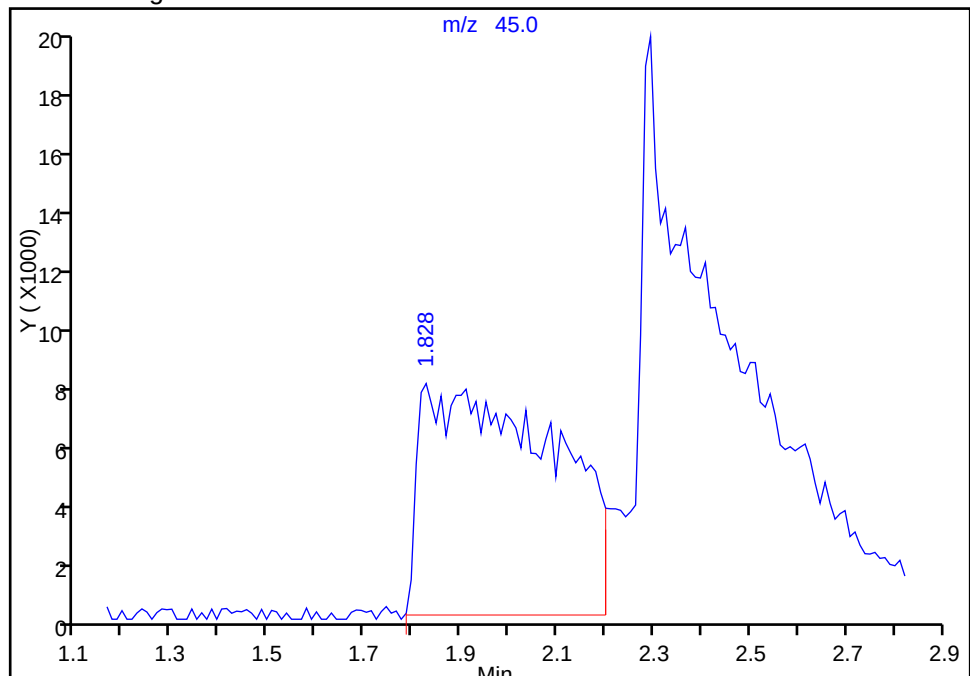
RT: 1.91
Response: 12681
Amount: 179.0637

Processing Integration Results



RT: 1.83
Response: 149116
Amount: 1204.3663

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:28:06
Audit Action: Manually Integrated
Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4582.D
 Lims ID: IC 12
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 25-Aug-2014 22:29:30 ALS Bottle#: 16 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 12
 Misc. Info.: 480-0034843-023
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 14:20:12 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK021

First Level Reviewer: HillL

Date: 26-Aug-2014 09:50:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.335	0.001	98	654436	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	89	473080	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	58	250015	25.0	25.0	
12 Chlorodifluoromethane	51	0.926	0.936	-0.010	97	575823	100.0	92.9	
84 Propene oxide	58	1.869	1.879	-0.010	96	710474	NC	NC	
148 Ethanol	45	1.817	1.828	-0.011	98	308895	2500.0	2513.0	
26 Isopropyl alcohol	45	2.284	2.294	-0.010	99	460758	500.0	498.8	
29 Acetonitrile	40	2.387	2.398	-0.011	99	467722	500.0	479.8	
37 Isopropyl ether	45	3.030	3.030	0.000	97	1601034	50.0	51.8	
38 2-Chloro-1,3-butadiene	53	3.051	3.050	0.001	94	717662	50.0	53.1	
139 Halothane	117	3.061	3.061	0.000	92	249757	50.0	50.7	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	97	400771	250.0	266.4	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	98	1359532	50.0	51.7	
45 Ethyl acetate	43	3.558	3.558	0.000	99	1168776	100.0	104.4	
46 Propionitrile	54	3.621	3.620	0.001	100	1007386	500.0	519.9	
49 Methacrylonitrile	41	3.703	3.703	0.000	96	4000341	500.0	503.6	
152 Isooctane	57	4.118	4.118	0.000	97	1666450	50.0	53.8	
58 Tert-amyl methyl ether	73	4.191	4.190	0.001	92	2072179	50.0	54.1	
147 t-Amyl alcohol	59	4.211	4.221	-0.010	87	1910264	1500.0	1626.5	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	96	1019310	50.0	52.1	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	334502	NC	NC	
61 n-Butanol	56	4.667	4.667	0.000	91	340471	500.0	498.1	M
140 2,4,4-Trimethyl-2-pentene	97	4.709	4.709	0.000	96	761325	NC	NC	
142 Ethyl acrylate	55	4.719	4.719	0.000	97	1655629	50.0	53.7	
64 Methyl methacrylate	41	4.895	4.895	0.000	95	998920	100.0	101.9	
68 2-Nitropropane	43	5.237	5.237	0.000	98	201816	100.0	105.9	
70 Epichlorohydrin	57	5.320	5.330	-0.010	100	631262	500.0	511.8	
74 2-Methylthiophene	97	5.672	5.672	0.000	98	1139640	50.0	52.0	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	1195865	50.0	51.2	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	868718	50.0	53.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	87	428570	50.0	46.0	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	94	510932	50.0	53.0	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	97	460197	50.0	51.7	
94 2-Chlorobenzotrifluoride	180	7.362	7.361	0.001	96	496532	50.0	53.0	
96 Cyclohexanone	55	7.559	7.558	0.000	96	247763	500.0	506.4	
103 3-Chlorotoluene	126	7.880	7.880	0.000	98	397737	50.0	50.7	
108 Pentachloroethane	167	8.191	8.191	0.001	83	137815	50.0	54.5	
112 Dicyclopentadiene	66	8.481	8.481	0.000	96	1917581	50.0	52.6	
114 1,2,3-Trimethylbenzene	105	8.533	8.532	0.001	99	1521752	50.0	52.6	
150 Benzyl chloride	126	8.636	8.636	0.000	99	99443	50.0	54.0	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	97	566585	50.0	53.1	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	92	938841	50.0	49.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00013

Amount Added: 25.00

Units: uL

T_8260_IS_00079

Amount Added: 1.00

Units: uL

3_MCP_Add_WRK_00037

Amount Added: 25.00

Units: uL

2MTP_WRK_00035

Amount Added: 25.00

Units: uL

3MTP_WRK_00038

Amount Added: 25.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4582.D

Injection Date: 25-Aug-2014 22:29:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 12

Worklist Smp#: 23

Client ID:

Purge Vol: 5.000 mL

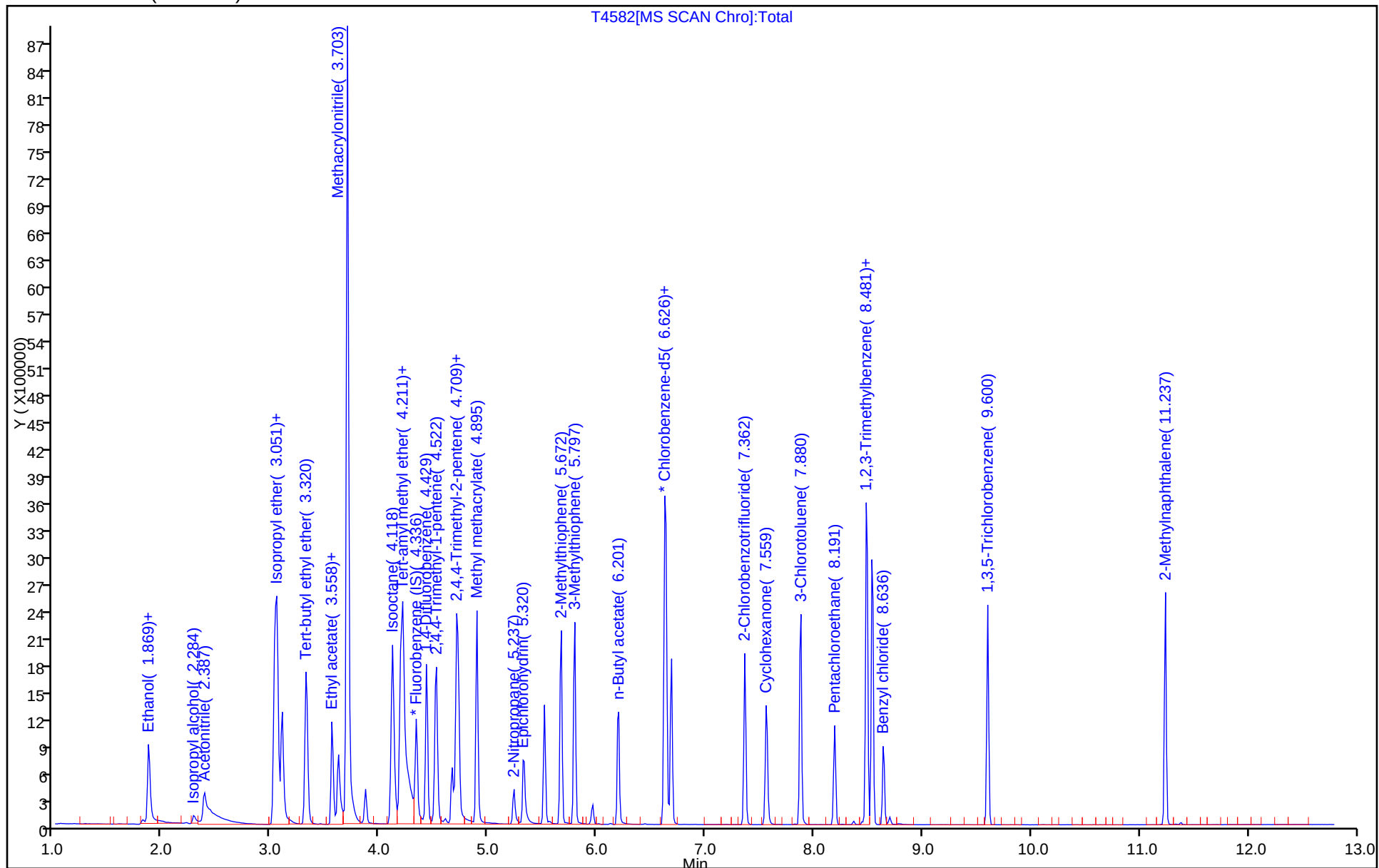
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4582.D

Injection Date: 25-Aug-2014 22:29:30

Instrument ID: HP5975T

Lims ID: IC 12

Client ID:

Operator ID: LH

ALS Bottle#:

16

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

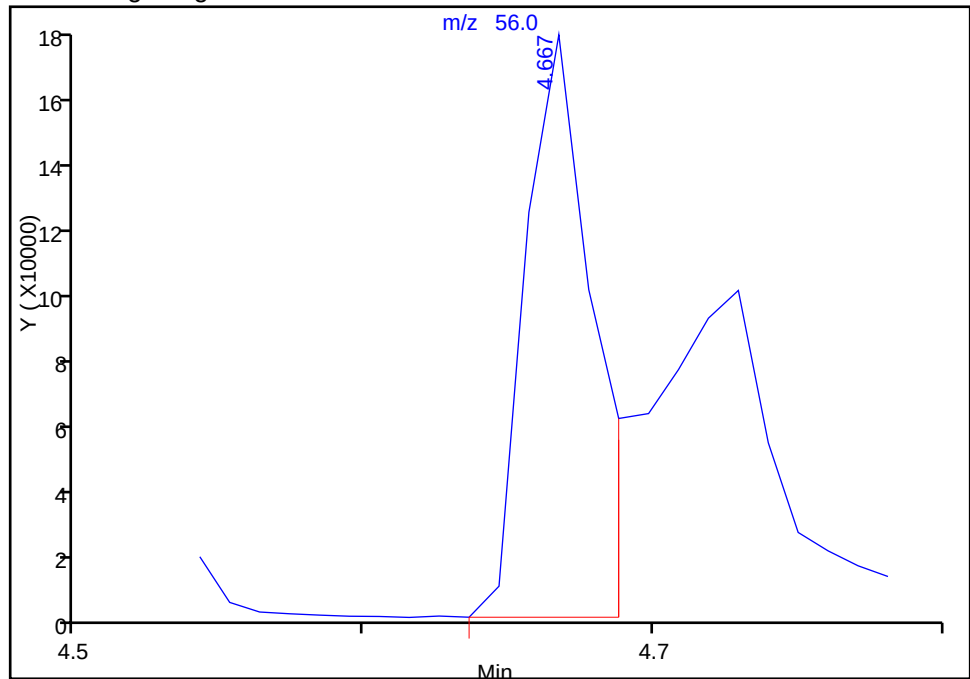
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

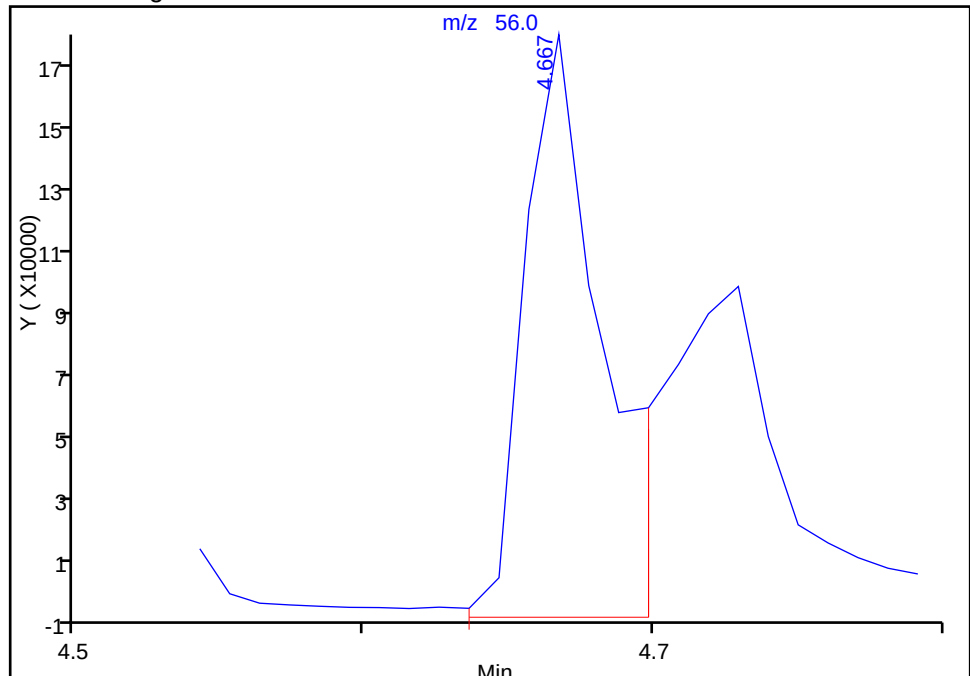
RT: 4.67
Response: 290365
Amount: 540.1216

Processing Integration Results



RT: 4.67
Response: 340471
Amount: 498.0882

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:32:13

Audit Action: Manually Integrated

Audit Reason: Coelution

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Lims ID: IC 13
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 25-Aug-2014 22:53:30 ALS Bottle#: 17 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 13
 Misc. Info.: 480-0034843-024
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub55
 Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 26-Aug-2014 09:50:41 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK032

First Level Reviewer: HillL

Date: 26-Aug-2014 09:50:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	98	662843	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	90	470730	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	51	244520	25.0	25.0	
12 Chlorodifluoromethane	51	0.936	0.936	0.000	97	1328044	200.0	205.3	
148 Ethanol	45	1.828	1.828	0.000	99	636363	5000.0	5111.4	
84 Propene oxide	58	1.869	1.879	-0.010	96	1360925	NC	NC	
26 Isopropyl alcohol	45	2.294	2.294	0.000	99	1037984	1000.0	1109.4	
29 Acetonitrile	40	2.387	2.398	-0.011	99	985098	1000.0	997.7	
37 Isopropyl ether	45	3.030	3.030	0.000	97	3304156	100.0	105.6	
38 2-Chloro-1,3-butadiene	53	3.050	3.050	0.000	94	1486514	100.0	108.5	
139 Halothane	117	3.061	3.061	0.000	93	509114	100.0	102.1	
40 1,1-Dimethoxyethane	75	3.102	3.102	0.000	97	852875	500.0	559.8	
41 Tert-butyl ethyl ether	59	3.320	3.320	0.000	99	2825152	100.0	106.0	
45 Ethyl acetate	43	3.558	3.558	0.000	99	2379478	200.0	209.9	
46 Propionitrile	54	3.620	3.620	0.000	100	1985080	1000.0	1011.6	
49 Methacrylonitrile	41	3.703	3.703	0.000	96	8023286	1000.0	997.3	
152 Isooctane	57	4.118	4.118	0.000	96	3317411	100.0	105.8	
58 Tert-amyl methyl ether	73	4.190	4.190	0.000	92	4336374	100.0	111.9	
147 t-Amyl alcohol	59	4.211	4.221	-0.010	88	3968616	3000.0	3336.3	
1 1,4-Difluorobenzene	114	4.429	4.429	0.000	96	2109958	100.0	106.5	
141 2,4,4-Trimethyl-1-pentene	55	4.522	4.522	0.000	99	719225	NC	NC	
61 n-Butanol	56	4.667	4.667	0.000	90	719881	1000.0	1009.1	M
140 2,4,4-Trimethyl-2-pentene	97	4.708	4.709	-0.001	94	1548160	NC	NC	
142 Ethyl acrylate	55	4.719	4.719	0.000	97	3267450	100.0	104.7	
64 Methyl methacrylate	41	4.895	4.895	0.000	95	2031989	200.0	204.7	
68 2-Nitropropane	43	5.237	5.237	0.000	98	428359	200.0	229.8	
70 Epichlorohydrin	57	5.330	5.330	0.000	100	1299861	1000.0	1040.6	
74 2-Methylthiophene	97	5.672	5.672	0.000	98	2330069	100.0	108.8	
76 3-Methylthiophene	97	5.797	5.797	0.000	100	2422615	100.0	106.0	
155 n-Butyl acetate	43	6.201	6.201	0.000	0	1717252	100.0	105.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
146 1-Chlorohexane	55	6.626	6.626	0.000	89	837775	100.0	90.3	
85 3-Chlorobenzotrifluoride	180	6.636	6.636	0.000	92	1004519	100.0	106.6	
87 4-Chlorobenzotrifluoride	180	6.688	6.688	0.000	97	942498	100.0	108.2	
94 2-Chlorobenzotrifluoride	180	7.361	7.361	0.000	96	998060	100.0	108.8	
96 Cyclohexanone	55	7.558	7.558	0.000	95	487274	1000.0	1018.2	
103 3-Chlorotoluene	126	7.880	7.880	0.000	98	803267	100.0	104.8	
108 Pentachloroethane	167	8.190	8.191	0.000	85	285993	100.0	115.6	
112 Dicyclopentadiene	66	8.481	8.481	0.000	96	4017292	100.0	112.6	
114 1,2,3-Trimethylbenzene	105	8.532	8.532	0.000	99	3108262	100.0	109.9	
150 Benzyl chloride	126	8.646	8.636	0.010	99	223585	100.0	122.0	
118 1,3,5-Trichlorobenzene	180	9.600	9.600	0.000	97	1153554	100.0	110.6	
149 2-Methylnaphthalene	142	11.237	11.237	0.000	93	1963884	100.0	104.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00013

Amount Added: 50.00

Units: uL

T_8260_IS_00079

Amount Added: 1.00

Units: uL

3_MCP_Add_WRK_00037

Amount Added: 50.00

Units: uL

2MTP_WRK_00035

Amount Added: 50.00

Units: uL

3MTP_WRK_00038

Amount Added: 50.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D

Injection Date: 25-Aug-2014 22:53:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 13

Worklist Smp#: 24

Client ID:

Purge Vol: 5.000 mL

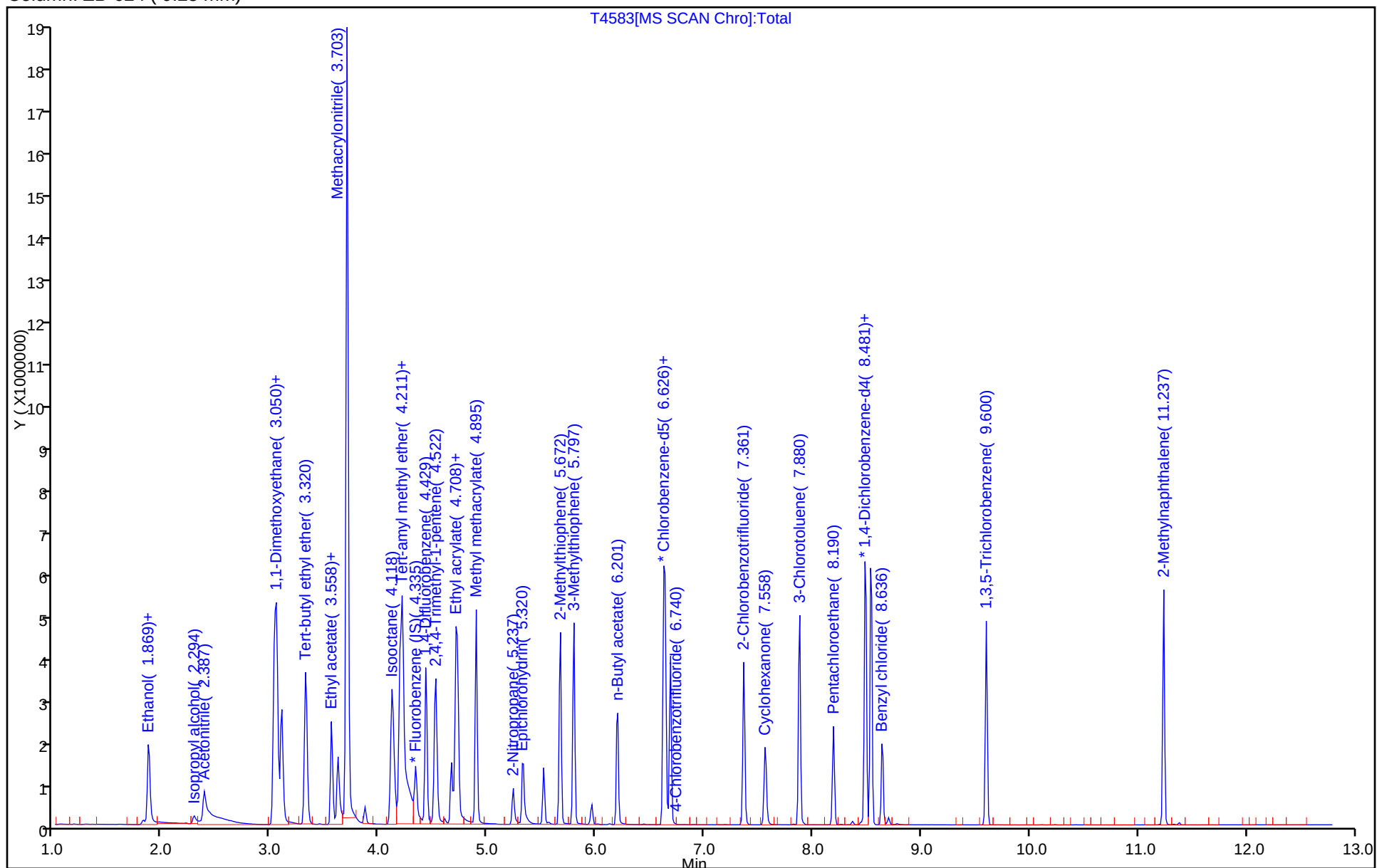
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D

Injection Date: 25-Aug-2014 22:53:30

Instrument ID: HP5975T

Lims ID: IC 13

Client ID:

Operator ID: LH

ALS Bottle#:

17

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

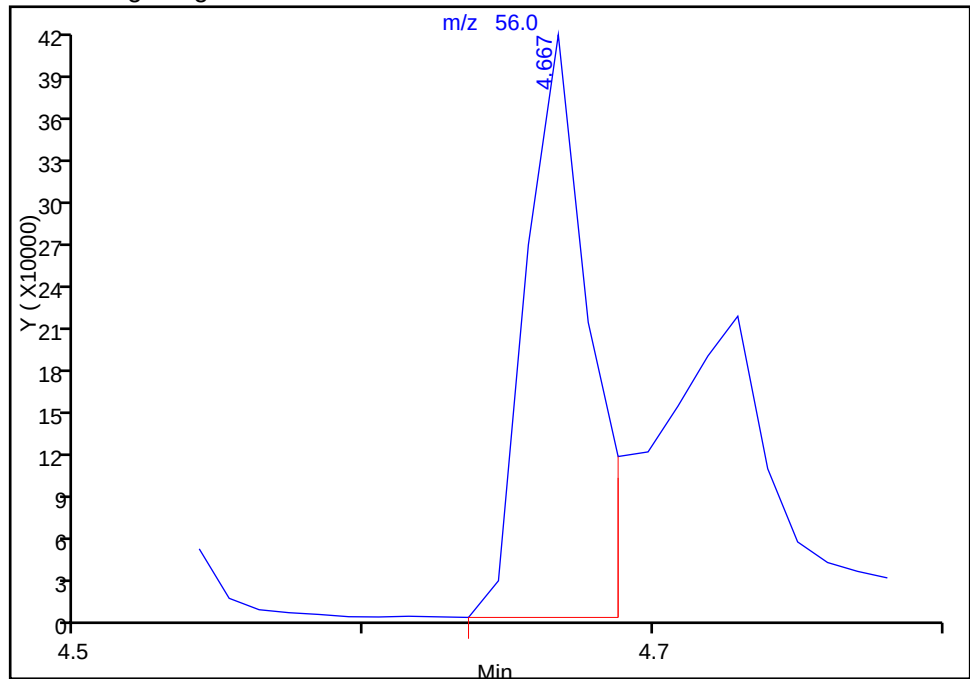
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

61 n-Butanol, CAS: 71-36-3

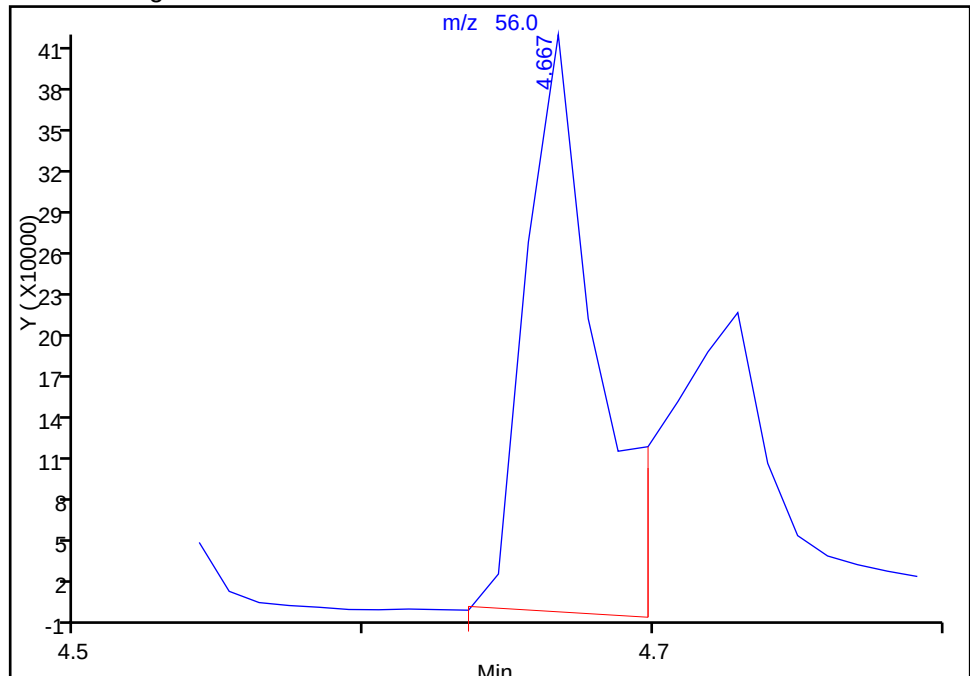
RT: 4.67
Response: 641403
Amount: 1142.4768

Processing Integration Results



RT: 4.67
Response: 719881
Amount: 1009.1135

Manual Integration Results



Reviewer: HillL, 26-Aug-2014 09:32:32

Audit Action: Manually Integrated

Audit Reason: Coelution

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Lab Sample ID: CCVIS 480-201883/2 Calibration Date: 09/11/2014 10:29

Instrument ID: HP5975T Calib Start Date: 08/25/2014 16:30

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 08/25/2014 18:54

Lab File ID: T5269.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	0.3765	0.2126	0.1000	14.1	25.0	-43.5	50.0
Chloromethane	Ave	0.4506	0.3658	0.1000	20.3	25.0	-18.8	20.0
Vinyl chloride	Ave	0.4090	0.3338	0.1000	20.4	25.0	-18.4	20.0
Butadiene	Ave	0.5029	0.3943		19.6	25.0	-21.6*	20.0
Bromomethane	Ave	0.1289	0.1111	0.1000	21.5	25.0	-13.9	50.0
Chloroethane	Ave	0.1710	0.1478	0.1000	21.6	25.0	-13.6	50.0
Trichlorofluoromethane	Ave	0.3589	0.4052	0.1000	28.2	25.0	12.9	20.0
Dichlorofluoromethane	Ave	0.3641	0.4085		28.0	25.0	12.2	20.0
Ethyl ether	Ave	0.2943	0.3540		30.1	25.0	20.3*	20.0
Acrolein	Ave	0.0568	0.0995		219	125	75.0*	50.0
1,1-Dichloroethene	Ave	0.2321	0.2746	0.1000	29.6	25.0	18.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2497	0.2834	0.1000	28.4	25.0	13.5	20.0
Iodomethane	Ave	0.3915	0.4119		26.3	25.0	5.2	20.0
Acetone	Ave	0.1433	0.1640	0.1000	143	125	14.4	50.0
Carbon disulfide	Ave	0.8817	0.8085	0.1000	22.9	25.0	-8.3	20.0
Allyl chloride	Ave	0.5104	0.4545		22.3	25.0	-11.0	20.0
Methyl acetate	Ave	0.4380	0.3781	0.1000	108	125	-13.7	50.0
Methylene Chloride	Linl		0.2920	0.1000	24.4	25.0	-2.5	20.0
Methyl tert-butyl ether	Ave	0.9272	0.9216	0.1000	24.8	25.0	-0.6	20.0
trans-1,2-Dichloroethene	Ave	0.2806	0.2838	0.1000	25.3	25.0	1.1	20.0
2-Methyl-2-propanol	Ave	0.0491	0.0624		340	250	27.1	50.0
Acrylonitrile	Ave	0.1812	0.1744		241	250	-3.7	20.0
Hexane	Ave	0.5513	0.4504		20.4	25.0	-18.3	20.0
1,1-Dichloroethane	Ave	0.5762	0.5573	0.2000	24.2	25.0	-3.3	20.0
Vinyl acetate	Ave	0.3958	0.5406		68.3	50.0	36.6*	20.0
2,2-Dichloropropane	Ave	0.2599	0.2425		23.3	25.0	-6.7	20.0
cis-1,2-Dichloroethene	Ave	0.2994	0.3090	0.1000	25.8	25.0	3.2	20.0
2-Butanone (MEK)	Ave	0.2422	0.2224	0.1000	115	125	-8.2	20.0
Chlorobromomethane	Ave	0.1522	0.1560		25.6	25.0	2.5	20.0
Tetrahydrofuran	Ave	0.1704	0.1475		43.3	50.0	-13.4	20.0
Chloroform	Ave	0.5045	0.4856	0.2000	24.1	25.0	-3.7	20.0
1,1,1-Trichloroethane	Ave	0.3718	0.3598	0.1000	24.2	25.0	-3.2	20.0
Cyclohexane	Ave	0.6557	0.5593	0.1000	21.3	25.0	-14.7	20.0
Carbon tetrachloride	Ave	0.3089	0.3042	0.1000	24.6	25.0	-1.5	20.0
1,1-Dichloropropene	Ave	0.3725	0.3577		24.0	25.0	-4.0	20.0
Benzene	Ave	1.133	1.128	0.5000	24.9	25.0	-0.4	20.0
1,2-Dichloroethane	Ave	0.4381	0.3939	0.1000	22.5	25.0	-10.1	20.0
Isobutyl alcohol	Ave	0.0177	0.0226		798	625	27.6	50.0
n-Heptane	Ave	0.6601	0.4784		18.1	25.0	-27.5*	20.0
Trichloroethene	Ave	0.2766	0.2805	0.2000	25.4	25.0	1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Lab Sample ID: CCVIS 480-201883/2 Calibration Date: 09/11/2014 10:29

Instrument ID: HP5975T Calib Start Date: 08/25/2014 16:30

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 08/25/2014 18:54

Lab File ID: T5269.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
Methylcyclohexane	Ave	0.4913	0.4638	0.1000	23.6	25.0	-5.6	20.0
1,2-Dichloropropane	Ave	0.3117	0.2989	0.1000	24.0	25.0	-4.1	20.0
Dibromomethane	Ave	0.1782	0.1802	0.1000	25.3	25.0	1.1	20.0
1,4-Dioxane	Lin1		0.0078		800	500	60.0*	50.0
Bromodichloromethane	Ave	0.3535	0.3432	0.2000	24.3	25.0	-2.9	20.0
2-Chloroethyl vinyl ether	Ave	0.2206	0.2192		24.8	25.0	-0.6	20.0
cis-1,3-Dichloropropene	Ave	0.3727	0.3931	0.2000	26.4	25.0	5.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7256	0.6129	0.1000	106	125	-15.5	20.0
Toluene	Ave	0.9224	0.9478	0.4000	25.7	25.0	2.7	20.0
trans-1,3-Dichloropropene	Ave	0.4162	0.4589	0.1000	27.6	25.0	10.3	20.0
Ethyl methacrylate	Ave	0.5309	0.5447		25.6	25.0	2.6	20.0
1,1,2-Trichloroethane	Ave	0.3109	0.3187	0.1000	25.6	25.0	2.5	20.0
Tetrachloroethene	Ave	0.3916	0.4041	0.2000	25.8	25.0	3.2	20.0
1,3-Dichloropropane	Ave	0.6186	0.6327		25.6	25.0	2.3	20.0
2-Hexanone	Ave	0.5164	0.4557	0.1000	110	125	-11.8	20.0
Dibromochloromethane	Ave	0.3185	0.3448	0.1000	27.1	25.0	8.3	20.0
1,2-Dibromoethane	Ave	0.3660	0.3832		26.2	25.0	4.7	20.0
Chlorobenzene	Ave	1.046	1.048	0.5000	25.1	25.0	0.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3128	0.3184		25.5	25.0	1.8	20.0
Ethylbenzene	Ave	1.781	1.784	0.1000	25.0	25.0	0.2	20.0
m,p-Xylene	Ave	0.6921	0.7039	0.1000	25.4	25.0	1.7	20.0
o-Xylene	Ave	0.6642	0.6972	0.3000	26.2	25.0	5.0	20.0
Styrene	Ave	1.146	1.193	0.3000	26.0	25.0	4.1	20.0
Bromoform	Ave	0.1874	0.2134	0.1000	28.5	25.0	13.9	50.0
Isopropylbenzene	Ave	3.365	3.341	0.1000	24.8	25.0	-0.7	20.0
Bromobenzene	Ave	0.7966	0.9149		28.7	25.0	14.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.045	1.201	0.3000	28.7	25.0	15.0	20.0
N-Propylbenzene	Ave	3.938	4.489		28.5	25.0	14.0	20.0
1,2,3-Trichloropropane	Ave	0.3298	0.3984		30.2	25.0	20.8*	20.0
trans-1,4-Dichloro-2-butene	Qua		0.2750		41.5	25.0	66.0*	50.0
2-Chlorotoluene	Ave	0.7570	0.8989		29.7	25.0	18.8	20.0
1,3,5-Trimethylbenzene	Ave	2.807	3.271		29.1	25.0	16.5	20.0
4-Chlorotoluene	Ave	2.751	3.089		28.1	25.0	12.3	20.0
tert-Butylbenzene	Ave	0.5752	0.6604		28.7	25.0	14.8	20.0
1,2,4-Trimethylbenzene	Ave	2.942	3.379		28.7	25.0	14.9	20.0
sec-Butylbenzene	Ave	3.605	4.136		28.7	25.0	14.7	20.0
1,3-Dichlorobenzene	Ave	1.549	1.612	0.6000	26.0	25.0	4.1	20.0
4-Isopropyltoluene	Ave	3.062	3.170		25.9	25.0	3.5	20.0
1,4-Dichlorobenzene	Ave	1.575	1.657	0.5000	26.3	25.0	5.2	20.0
n-Butylbenzene	Ave	2.828	3.191		28.2	25.0	12.8	20.0
1,2-Dichlorobenzene	Ave	1.529	1.781	0.4000	29.1	25.0	16.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-201883/2 Calibration Date: 09/11/2014 10:29
 Instrument ID: HP5975T Calib Start Date: 08/25/2014 16:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 08/25/2014 18:54
 Lab File ID: T5269.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-Dibromo-3-Chloropropane	Ave	0.1785	0.2157	0.0500	30.2	25.0	20.9	50.0
1,2,4-Trichlorobenzene	Ave	1.023	1.179	0.2000	28.8	25.0	15.3	20.0
Hexachlorobutadiene	Ave	0.4765	0.5804		30.5	25.0	21.8*	20.0
Naphthalene	Ave	3.172	3.717		29.3	25.0	17.2	20.0
1,2,3-Trichlorobenzene	Ave	0.9700	1.156		29.8	25.0	19.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2597	0.2427		23.4	25.0	-6.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3337	0.2801		21.0	25.0	-16.1	20.0
Toluene-d8 (Surr)	Ave	1.295	1.234		23.8	25.0	-4.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3922	0.4340		27.7	25.0	10.6	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5269.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 11-Sep-2014 10:29:30 ALS Bottle#: 61 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0035277-002
 Operator ID: CN Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Sep-2014 11:40:46 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: manc

Date: 11-Sep-2014 11:40:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	99	582652	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	86	416742	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	96	231138	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	141394	25.0	23.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	163169	25.0	21.0	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	93	514270	25.0	23.8	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	92	180844	25.0	27.7	
11 Dichlorodifluoromethane	85	0.916	0.916	0.000	99	123869	25.0	14.1	
13 Chloromethane	50	1.030	1.030	0.000	99	213134	25.0	20.3	
14 Vinyl chloride	62	1.102	1.102	0.000	98	194492	25.0	20.4	
151 Butadiene	54	1.123	1.123	0.000	90	229739	25.0	19.6	M
15 Bromomethane	94	1.330	1.330	0.000	92	64711	25.0	21.5	
16 Chloroethane	64	1.403	1.403	0.000	99	86110	25.0	21.6	
17 Trichlorofluoromethane	101	1.558	1.558	0.000	98	236079	25.0	28.2	
18 Dichlorofluoromethane	67	1.569	1.569	0.000	97	238002	25.0	28.0	
19 Ethyl ether	59	1.797	1.797	0.000	97	206232	25.0	30.1	
21 Acrolein	56	1.962	1.962	0.000	99	289871	125.0	218.8	
22 1,1-Dichloroethene	96	1.973	1.973	0.000	94	159981	25.0	29.6	
20 1,1,2-Trichloro-1,2,2-trif	101	1.983	1.983	0.000	95	165122	25.0	28.4	
24 Iodomethane	142	2.107	2.107	0.000	97	240016	25.0	26.3	
23 Acetone	43	2.118	2.118	0.000	99	477649	125.0	143.0	
25 Carbon disulfide	76	2.128	2.128	0.000	100	471068	25.0	22.9	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	87	264818	25.0	22.3	
28 Methyl acetate	43	2.377	2.377	0.000	99	1101517	125.0	107.9	
30 Methylene Chloride	84	2.439	2.439	0.000	98	170145	25.0	24.4	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	99	536978	25.0	24.8	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	94	165347	25.0	25.3	
31 2-Methyl-2-propanol	59	2.646	2.646	0.000	49	363768	250.0	340.1	
34 Acrylonitrile	53	2.709	2.709	0.000	98	1016262	250.0	240.7	
35 Hexane	57	2.812	2.812	0.000	94	262410	25.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	97	324681	25.0	24.2	
39 Vinyl acetate	43	3.071	3.071	0.000	97	629978	50.0	68.3	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	92	141265	25.0	23.3	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	81	180044	25.0	25.8	
44 2-Butanone (MEK)	43	3.538	3.538	0.000	100	647890	125.0	114.8	
47 Chlorobromomethane	128	3.672	3.672	0.000	98	90886	25.0	25.6	
48 Tetrahydrofuran	42	3.703	3.703	0.000	89	171896	50.0	43.3	
50 Chloroform	83	3.745	3.745	0.000	94	282936	25.0	24.1	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	98	209661	25.0	24.2	
52 Cyclohexane	56	3.817	3.817	0.000	92	325861	25.0	21.3	
53 Carbon tetrachloride	117	3.931	3.931	0.000	97	177243	25.0	24.6	
54 1,1-Dichloropropene	75	3.952	3.952	0.000	96	208423	25.0	24.0	
55 Benzene	78	4.118	4.118	0.000	96	657420	25.0	24.9	
56 Isobutyl alcohol	43	4.180	4.180	0.000	93	329656	625.0	797.7	
57 1,2-Dichloroethane	62	4.180	4.180	0.000	96	229477	25.0	22.5	
59 n-Heptane	43	4.263	4.263	0.000	93	278744	25.0	18.1	
60 Trichloroethene	95	4.605	4.605	0.000	98	163456	25.0	25.4	
62 Methylcyclohexane	83	4.688	4.688	0.000	94	270222	25.0	23.6	
63 1,2-Dichloropropane	63	4.802	4.802	0.000	97	174160	25.0	24.0	
65 Dibromomethane	93	4.905	4.905	0.000	95	105000	25.0	25.3	
66 1,4-Dioxane	88	4.937	4.937	0.000	96	65226	500.0	800.2	
67 Dichlorobromomethane	83	5.030	5.030	0.000	99	199951	25.0	24.3	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	91	127743	25.0	24.8	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	95	229022	25.0	26.4	
72 4-Methyl-2-pentanone (MIBK)	43	5.475	5.475	0.000	96	1277012	125.0	105.6	
73 Toluene	92	5.569	5.569	0.000	98	394976	25.0	25.7	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	93	191250	25.0	27.6	
77 Ethyl methacrylate	69	5.838	5.838	0.000	90	226997	25.0	25.6	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	91	132821	25.0	25.6	
79 Tetrachloroethene	166	5.962	5.962	0.000	95	168386	25.0	25.8	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	93	263667	25.0	25.6	
81 2-Hexanone	43	6.118	6.118	0.000	95	949483	125.0	110.3	
82 Chlorodibromomethane	129	6.222	6.222	0.000	90	143698	25.0	27.1	
83 Ethylene Dibromide	107	6.294	6.294	0.000	98	159705	25.0	26.2	
86 Chlorobenzene	112	6.657	6.657	0.000	95	436663	25.0	25.1	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	44	132700	25.0	25.5	
88 Ethylbenzene	91	6.729	6.729	0.000	98	743331	25.0	25.0	
90 m-Xylene & p-Xylene	106	6.812	6.812	0.000	0	293359	25.0	25.4	
91 o-Xylene	106	7.134	7.134	0.000	97	290568	25.0	26.2	
92 Styrene	104	7.154	7.154	0.000	96	497264	25.0	26.0	
93 Bromoform	173	7.330	7.330	0.000	96	88922	25.0	28.5	
95 Isopropylbenzene	105	7.413	7.413	0.000	95	772335	25.0	24.8	
97 Bromobenzene	156	7.672	7.672	0.000	98	211474	25.0	28.7	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	95	277601	25.0	28.7	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	1037679	25.0	28.5	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	87	92081	25.0	30.2	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	73	63566	25.0	41.5	
105 2-Chlorotoluene	126	7.828	7.828	0.000	96	207773	25.0	29.7	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	94	756060	25.0	29.1	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	713955	25.0	28.1	
106 tert-Butylbenzene	134	8.149	8.149	0.000	94	152653	25.0	28.7	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.000	98	780997	25.0	28.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.325	8.325	0.000	94	955904	25.0	28.7	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	97	372501	25.0	26.0	
111 4-Isopropyltoluene	119	8.450	8.450	0.000	97	732648	25.0	25.9	
113 1,4-Dichlorobenzene	146	8.501	8.501	0.000	92	382941	25.0	26.3	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	737559	25.0	28.2	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	96	411764	25.0	29.1	
117 1,2-Dibromo-3-Chloropropan	75	9.486	9.486	0.000	82	49864	25.0	30.2	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	94	272561	25.0	28.8	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	97	134157	25.0	30.5	
121 Naphthalene	128	10.336	10.336	0.000	97	859224	25.0	29.3	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	96	267196	25.0	29.8	
S 123 1,3-Dichloropropene, Total	1				0			53.9	
S 124 1,2-Dichloroethene, Total	1				0			51.1	
S 125 Total BTEX	1				0			127.3	
S 126 Xylenes, Total	1				0			51.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00045

Amount Added: 12.50

Units: uL

8260 CORP mix_00019

Amount Added: 12.50

Units: uL

T_8260_IS_00085

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00081

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5269.D

Injection Date: 11-Sep-2014 10:29:30

Instrument ID: HP5975T

Lims ID: CCVIS

Operator ID: CN

Client ID:

Worklist Smp#: 2

Purge Vol: 5.000 mL

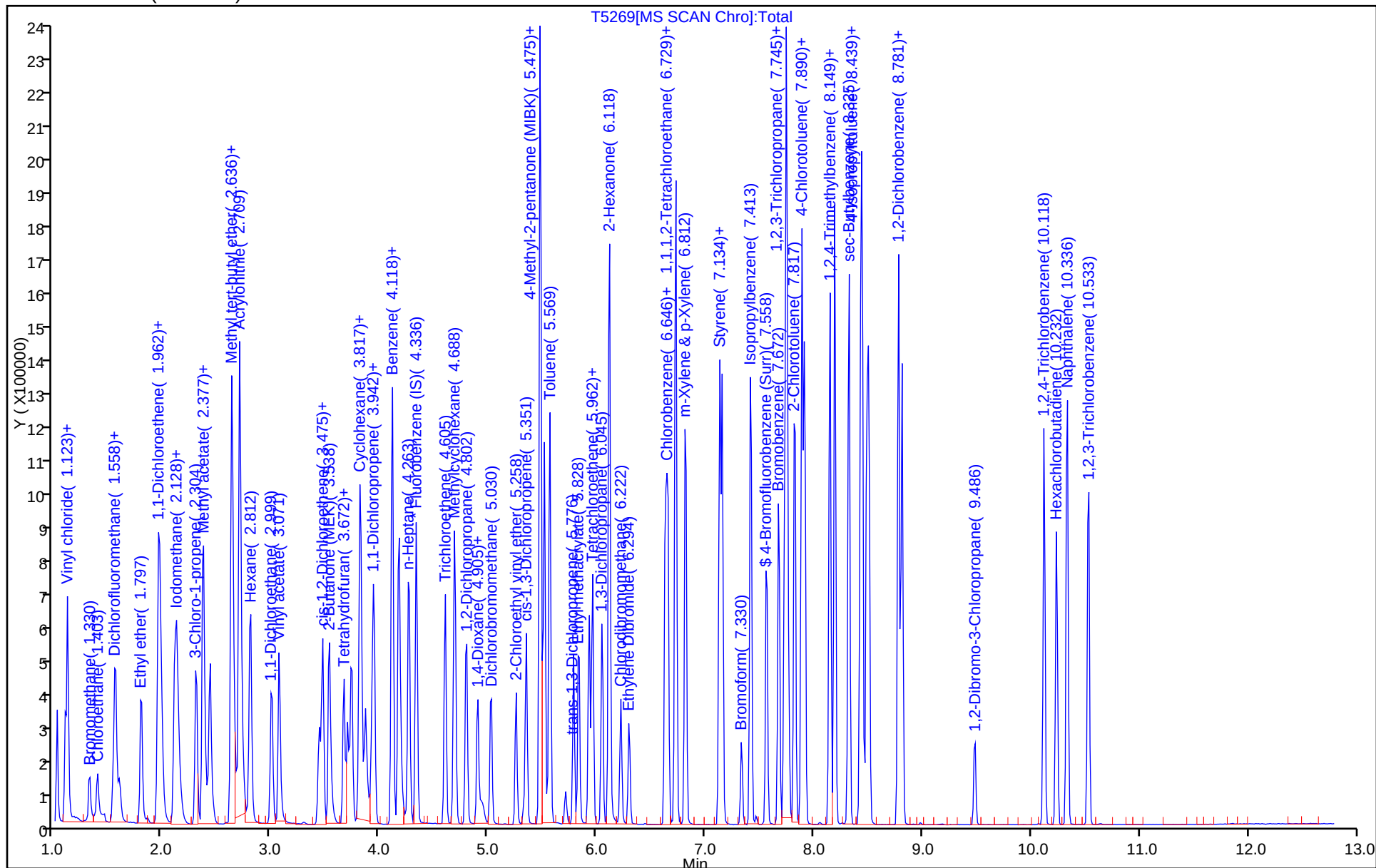
Dil. Factor: 1.0000

ALS Bottle#: 61

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5269.D

Injection Date: 11-Sep-2014 10:29:30

Instrument ID: HP5975T

Lims ID: CCVIS

Client ID:

Operator ID: CN

ALS Bottle#:

61

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

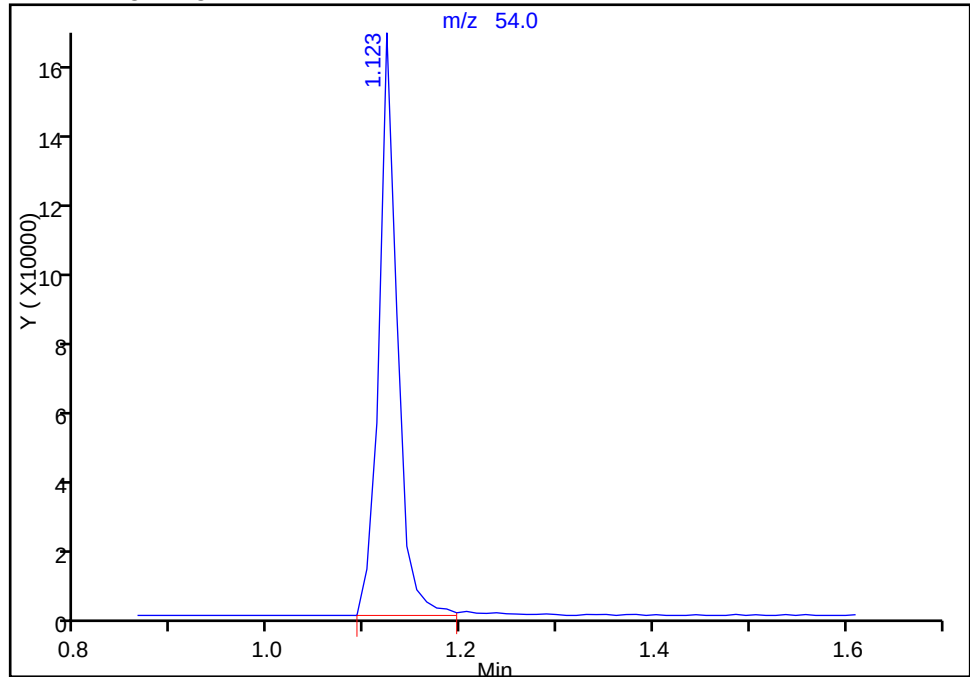
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

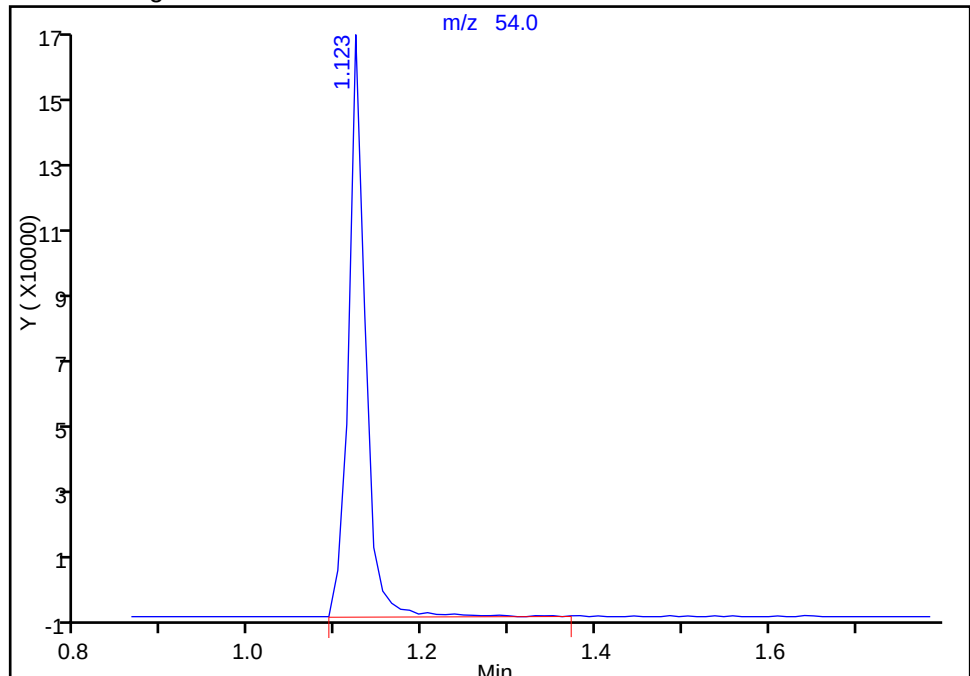
151 Butadiene, CAS: 106-99-0

RT: 1.12
Response: 224692
Amount: 19.170314

Processing Integration Results

RT: 1.12
Response: 229739
Amount: 19.600915

Manual Integration Results



Reviewer: nguyendudziaknq, 11-Sep-2014 11:11:51

Audit Action: Manually Integrated

Audit Reason: Peak Tail

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Lab Sample ID: CCVIS 480-202028/2 Calibration Date: 09/11/2014 23:09

Instrument ID: HP5975T Calib Start Date: 08/25/2014 16:30

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 08/25/2014 18:54

Lab File ID: T5297.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	0.3765	0.2117	0.1000	14.1	25.0	-43.8	50.0
Chloromethane	Ave	0.4506	0.3874	0.1000	21.5	25.0	-14.0	20.0
Vinyl chloride	Ave	0.4090	0.3632	0.1000	22.2	25.0	-11.2	20.0
Butadiene	Ave	0.5029	0.4035		20.1	25.0	-19.8	20.0
Bromomethane	Ave	0.1289	0.1275	0.1000	24.7	25.0	-1.1	50.0
Chloroethane	Ave	0.1710	0.1634	0.1000	23.9	25.0	-4.5	50.0
Dichlorofluoromethane	Ave	0.3641	0.4273		29.3	25.0	17.4	20.0
Trichlorofluoromethane	Ave	0.3589	0.4486	0.1000	31.2	25.0	25.0*	20.0
Ethyl ether	Ave	0.2943	0.3275		27.8	25.0	11.3	20.0
Acrolein	Ave	0.0568	0.0921		203	125	62.0*	50.0
1,1-Dichloroethene	Ave	0.2321	0.2699	0.1000	29.1	25.0	16.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2497	0.3084	0.1000	30.9	25.0	23.5*	20.0
Acetone	Ave	0.1433	0.1659	0.1000	145	125	15.8	50.0
Iodomethane	Ave	0.3915	0.4499		28.7	25.0	14.9	20.0
Carbon disulfide	Ave	0.8817	0.9148	0.1000	25.9	25.0	3.8	20.0
Allyl chloride	Ave	0.5104	0.4171		20.4	25.0	-18.3	20.0
Methyl acetate	Ave	0.4380	0.3274	0.1000	93.4	125	-25.2	50.0
Methylene Chloride	Linl		0.2756	0.1000	22.9	25.0	-8.2	20.0
2-Methyl-2-propanol	Ave	0.0491	0.0469		256	250	-4.5	50.0
Methyl tert-butyl ether	Ave	0.9272	0.8264	0.1000	22.3	25.0	-10.9	20.0
trans-1,2-Dichloroethene	Ave	0.2806	0.2638	0.1000	23.5	25.0	-6.0	20.0
Acrylonitrile	Ave	0.1812	0.1598		220	250	-11.8	20.0
Hexane	Ave	0.5513	0.4505		20.4	25.0	-18.3	20.0
1,1-Dichloroethane	Ave	0.5762	0.4938	0.2000	21.4	25.0	-14.3	20.0
Vinyl acetate	Ave	0.3958	0.4392		55.5	50.0	11.0	20.0
2,2-Dichloropropane	Ave	0.2599	0.2252		21.7	25.0	-13.3	20.0
cis-1,2-Dichloroethene	Ave	0.2994	0.2881	0.1000	24.1	25.0	-3.8	20.0
2-Butanone (MEK)	Ave	0.2422	0.2153	0.1000	111	125	-11.1	20.0
Chlorobromomethane	Ave	0.1522	0.1480		24.3	25.0	-2.7	20.0
Tetrahydrofuran	Ave	0.1704	0.1324		38.9	50.0	-22.3*	20.0
Chloroform	Ave	0.5045	0.4582	0.2000	22.7	25.0	-9.2	20.0
1,1,1-Trichloroethane	Ave	0.3718	0.3494	0.1000	23.5	25.0	-6.0	20.0
Cyclohexane	Ave	0.6557	0.5461	0.1000	20.8	25.0	-16.7	20.0
Carbon tetrachloride	Ave	0.3089	0.3030	0.1000	24.5	25.0	-1.9	20.0
1,1-Dichloropropene	Ave	0.3725	0.3401		22.8	25.0	-8.7	20.0
Benzene	Ave	1.133	1.070	0.5000	23.6	25.0	-5.6	20.0
Isobutyl alcohol	Ave	0.0177	0.0188		661	625	5.8	50.0
1,2-Dichloroethane	Ave	0.4381	0.3735	0.1000	21.3	25.0	-14.7	20.0
n-Heptane	Ave	0.6601	0.5143		19.5	25.0	-22.1*	20.0
Trichloroethene	Ave	0.2766	0.2756	0.2000	24.9	25.0	-0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Lab Sample ID: CCVIS 480-202028/2 Calibration Date: 09/11/2014 23:09

Instrument ID: HP5975T Calib Start Date: 08/25/2014 16:30

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 08/25/2014 18:54

Lab File ID: T5297.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
Methylcyclohexane	Ave	0.4913	0.4618	0.1000	23.5	25.0	-6.0	20.0
1,2-Dichloropropane	Ave	0.3117	0.2883	0.1000	23.1	25.0	-7.5	20.0
Dibromomethane	Ave	0.1782	0.1712	0.1000	24.0	25.0	-4.0	20.0
1,4-Dioxane	Lin1		0.0071		726	500	45.3	50.0
Bromodichloromethane	Ave	0.3535	0.3356	0.2000	23.7	25.0	-5.1	20.0
2-Chloroethyl vinyl ether	Ave	0.2206	0.2109		23.9	25.0	-4.4	20.0
cis-1,3-Dichloropropene	Ave	0.3727	0.3890	0.2000	26.1	25.0	4.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7256	0.5709	0.1000	98.3	125	-21.3*	20.0
Toluene	Ave	0.9224	0.8993	0.4000	24.4	25.0	-2.5	20.0
trans-1,3-Dichloropropene	Ave	0.4162	0.4378	0.1000	26.3	25.0	5.2	20.0
Ethyl methacrylate	Ave	0.5309	0.4940		23.3	25.0	-6.9	20.0
1,1,2-Trichloroethane	Ave	0.3109	0.2937	0.1000	23.6	25.0	-5.5	20.0
Tetrachloroethene	Ave	0.3916	0.3792	0.2000	24.2	25.0	-3.2	20.0
1,3-Dichloropropane	Ave	0.6186	0.5785		23.4	25.0	-6.5	20.0
2-Hexanone	Ave	0.5164	0.4225	0.1000	102	125	-18.2	20.0
Dibromochloromethane	Ave	0.3185	0.3382	0.1000	26.5	25.0	6.2	20.0
1,2-Dibromoethane	Ave	0.3660	0.3579		24.4	25.0	-2.2	20.0
Chlorobenzene	Ave	1.046	0.9796	0.5000	23.4	25.0	-6.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3128	0.2981		23.8	25.0	-4.7	20.0
Ethylbenzene	Ave	1.781	1.664	0.1000	23.4	25.0	-6.6	20.0
m,p-Xylene	Ave	0.6921	0.6614	0.1000	23.9	25.0	-4.4	20.0
o-Xylene	Ave	0.6642	0.6281	0.3000	23.6	25.0	-5.4	20.0
Styrene	Ave	1.146	1.119	0.3000	24.4	25.0	-2.4	20.0
Bromoform	Ave	0.1874	0.2156	0.1000	28.8	25.0	15.1	50.0
Isopropylbenzene	Ave	3.365	3.283	0.1000	24.4	25.0	-2.4	20.0
Bromobenzene	Ave	0.7966	0.7815		24.5	25.0	-1.9	20.0
1,1,2,2-Tetrachloroethane	Ave	1.045	1.018	0.3000	24.4	25.0	-2.5	20.0
N-Propylbenzene	Ave	3.938	3.781		24.0	25.0	-4.0	20.0
1,2,3-Trichloropropane	Ave	0.3298	0.3327		25.2	25.0	0.9	20.0
trans-1,4-Dichloro-2-butene	Qua		0.2352		36.8	25.0	47.1	50.0
2-Chlorotoluene	Ave	0.7570	0.7572		25.0	25.0	0.0	20.0
1,3,5-Trimethylbenzene	Ave	2.807	2.782		24.8	25.0	-0.9	20.0
4-Chlorotoluene	Ave	2.751	2.610		23.7	25.0	-5.1	20.0
tert-Butylbenzene	Ave	0.5752	0.5642		24.5	25.0	-1.9	20.0
1,2,4-Trimethylbenzene	Ave	2.942	2.887		24.5	25.0	-1.9	20.0
sec-Butylbenzene	Ave	3.605	3.537		24.5	25.0	-1.9	20.0
1,3-Dichlorobenzene	Ave	1.549	1.507	0.6000	24.3	25.0	-2.7	20.0
4-Isopropyltoluene	Ave	3.062	3.016		24.6	25.0	-1.5	20.0
1,4-Dichlorobenzene	Ave	1.575	1.558	0.5000	24.7	25.0	-1.0	20.0
n-Butylbenzene	Ave	2.828	2.702		23.9	25.0	-4.5	20.0
1,2-Dichlorobenzene	Ave	1.529	1.496	0.4000	24.5	25.0	-2.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-202028/2 Calibration Date: 09/11/2014 23:09
 Instrument ID: HP5975T Calib Start Date: 08/25/2014 16:30
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 08/25/2014 18:54
 Lab File ID: T5297.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-Dibromo-3-Chloropropane	Ave	0.1785	0.1794	0.0500	25.1	25.0	0.5	50.0
1,2,4-Trichlorobenzene	Ave	1.023	1.018	0.2000	24.9	25.0	-0.5	20.0
Hexachlorobutadiene	Ave	0.4765	0.5233		27.5	25.0	9.8	20.0
Naphthalene	Ave	3.172	3.210		25.3	25.0	1.2	20.0
1,2,3-Trichlorobenzene	Ave	0.9700	0.9678		24.9	25.0	-0.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2597	0.2321		22.3	25.0	-10.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3337	0.2702		20.2	25.0	-19.0	20.0
Toluene-d8 (Surr)	Ave	1.295	1.187		22.9	25.0	-8.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.3922	0.3754		23.9	25.0	-4.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5297.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 11-Sep-2014 23:09:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0035300-002
 Operator ID: gtg Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Sep-2014 23:41:53 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: goliszekg

Date: 11-Sep-2014 23:41:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.335	0.000	99	560050	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	85	411758	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	95	213828	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	130008	25.0	22.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	151328	25.0	20.2	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	93	488909	25.0	22.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	93	154574	25.0	23.9	
11 Dichlorodifluoromethane	85	0.916	0.916	0.000	100	118560	25.0	14.1	
13 Chloromethane	50	1.030	1.030	0.000	99	216939	25.0	21.5	
14 Vinyl chloride	62	1.102	1.102	0.000	99	203413	25.0	22.2	
151 Butadiene	54	1.123	1.123	0.000	91	225962	25.0	20.1	
15 Bromomethane	94	1.330	1.330	0.000	92	71385	25.0	24.7	
16 Chloroethane	64	1.403	1.403	0.000	98	91504	25.0	23.9	
17 Trichlorofluoromethane	101	1.569	1.569	0.000	82	251251	25.0	31.2	
18 Dichlorofluoromethane	67	1.569	1.569	0.000	95	239296	25.0	29.3	
19 Ethyl ether	59	1.796	1.796	0.000	97	183416	25.0	27.8	
21 Acrolein	56	1.952	1.952	0.000	100	257926	125.0	202.5	
22 1,1-Dichloroethene	96	1.973	1.973	0.000	94	151152	25.0	29.1	
20 1,1,2-Trichloro-1,2,2-trif	101	1.983	1.983	0.000	96	172691	25.0	30.9	
23 Acetone	43	2.107	2.107	0.000	100	464528	125.0	144.7	
24 Iodomethane	142	2.107	2.107	0.000	64	251956	25.0	28.7	
25 Carbon disulfide	76	2.128	2.128	0.000	100	512349	25.0	25.9	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	93	233617	25.0	20.4	
28 Methyl acetate	43	2.366	2.366	0.000	98	916854	125.0	93.4	
30 Methylene Chloride	84	2.439	2.439	0.000	98	154340	25.0	22.9	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	74	147759	25.0	23.5	
31 2-Methyl-2-propanol	59	2.636	2.636	0.000	95	262705	250.0	255.5	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	98	462816	25.0	22.3	
34 Acrylonitrile	53	2.708	2.708	0.000	99	894805	250.0	220.5	
35 Hexane	57	2.812	2.812	0.000	91	252307	25.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	2.999	2.999	0.000	96	276572	25.0	21.4	
39 Vinyl acetate	43	3.071	3.071	0.000	97	491913	50.0	55.5	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	93	126117	25.0	21.7	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	80	161331	25.0	24.1	
44 2-Butanone (MEK)	43	3.527	3.527	0.000	100	602957	125.0	111.1	
47 Chlorobromomethane	128	3.672	3.672	0.000	98	82912	25.0	24.3	
48 Tetrahydrofuran	42	3.703	3.703	0.000	89	148314	50.0	38.9	
50 Chloroform	83	3.734	3.734	0.000	94	256617	25.0	22.7	
52 Cyclohexane	56	3.817	3.817	0.000	91	305830	25.0	20.8	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	95	195656	25.0	23.5	
53 Carbon tetrachloride	117	3.931	3.931	0.000	96	169701	25.0	24.5	
54 1,1-Dichloropropene	75	3.952	3.952	0.000	97	190447	25.0	22.8	
55 Benzene	78	4.118	4.118	0.000	96	599207	25.0	23.6	
56 Isobutyl alcohol	43	4.170	4.170	0.000	96	262654	625.0	661.2	
57 1,2-Dichloroethane	62	4.180	4.180	0.000	97	209192	25.0	21.3	
59 n-Heptane	43	4.273	4.273	0.000	93	288043	25.0	19.5	
60 Trichloroethene	95	4.605	4.605	0.000	97	154326	25.0	24.9	
62 Methylcyclohexane	83	4.688	4.688	0.000	93	258618	25.0	23.5	
63 1,2-Dichloropropane	63	4.802	4.802	0.000	97	161447	25.0	23.1	
65 Dibromomethane	93	4.905	4.905	0.000	94	95855	25.0	24.0	
66 1,4-Dioxane	88	4.926	4.926	0.000	97	58427	500.0	726.4	
67 Dichlorobromomethane	83	5.030	5.030	0.000	99	187964	25.0	23.7	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	91	118121	25.0	23.9	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	96	217851	25.0	26.1	
72 4-Methyl-2-pentanone (MIBK)	43	5.475	5.475	0.000	96	1175289	125.0	98.3	
73 Toluene	92	5.569	5.569	0.000	99	370299	25.0	24.4	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	93	180259	25.0	26.3	
77 Ethyl methacrylate	69	5.828	5.828	0.000	90	203411	25.0	23.3	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	91	120947	25.0	23.6	
79 Tetrachloroethene	166	5.962	5.962	0.000	98	156148	25.0	24.2	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	93	238183	25.0	23.4	
81 2-Hexanone	43	6.118	6.118	0.000	96	869813	125.0	102.3	
82 Chlorodibromomethane	129	6.222	6.222	0.000	89	139264	25.0	26.5	
83 Ethylene Dibromide	107	6.294	6.294	0.000	97	147371	25.0	24.4	
86 Chlorobenzene	112	6.657	6.657	0.000	95	403371	25.0	23.4	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	44	122728	25.0	23.8	
88 Ethylbenzene	91	6.729	6.729	0.000	98	684973	25.0	23.4	
90 m-Xylene & p-Xylene	106	6.823	6.823	0.000	0	272331	25.0	23.9	
91 o-Xylene	106	7.133	7.133	0.000	97	258611	25.0	23.6	
92 Styrene	104	7.154	7.154	0.000	96	460637	25.0	24.4	
93 Bromoform	173	7.330	7.330	0.000	97	88777	25.0	28.8	
95 Isopropylbenzene	105	7.413	7.413	0.000	96	702043	25.0	24.4	
97 Bromobenzene	156	7.672	7.672	0.000	97	167104	25.0	24.5	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	95	217722	25.0	24.4	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	808523	25.0	24.0	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	89	71149	25.0	25.2	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	75	50301	25.0	36.8	
105 2-Chlorotoluene	126	7.828	7.828	0.000	97	161920	25.0	25.0	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	94	594969	25.0	24.8	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	558167	25.0	23.7	
106 tert-Butylbenzene	134	8.149	8.149	0.000	93	120633	25.0	24.5	
107 1,2,4-Trimethylbenzene	105	8.190	8.190	0.000	97	617383	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.325	8.325	0.000	94	756329	25.0	24.5	
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	98	322155	25.0	24.3	
111 4-Isopropyltoluene	119	8.450	8.450	0.000	97	644954	25.0	24.6	
113 1,4-Dichlorobenzene	146	8.501	8.501	0.000	95	333228	25.0	24.7	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	577817	25.0	23.9	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	97	319904	25.0	24.5	
117 1,2-Dibromo-3-Chloropropan	75	9.486	9.486	0.000	86	38353	25.0	25.1	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	95	217571	25.0	24.9	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	97	111902	25.0	27.5	
121 Naphthalene	128	10.336	10.336	0.000	97	686367	25.0	25.3	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	96	206942	25.0	24.9	
S 125 Total BTEX	1				0			118.9	
S 126 Xylenes, Total	1				0			47.5	
S 123 1,3-Dichloropropene, Total	1				0			52.4	
S 124 1,2-Dichloroethene, Total	1				0			47.6	

Reagents:

GAS CORP mix_00045	Amount Added: 12.50	Units: uL	
8260 CORP mix_00019	Amount Added: 12.50	Units: uL	
T_8260_IS_00085	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00081	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5297.D

Injection Date: 11-Sep-2014 23:09:30

Instrument ID: HP5975T

Operator ID: gtg

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

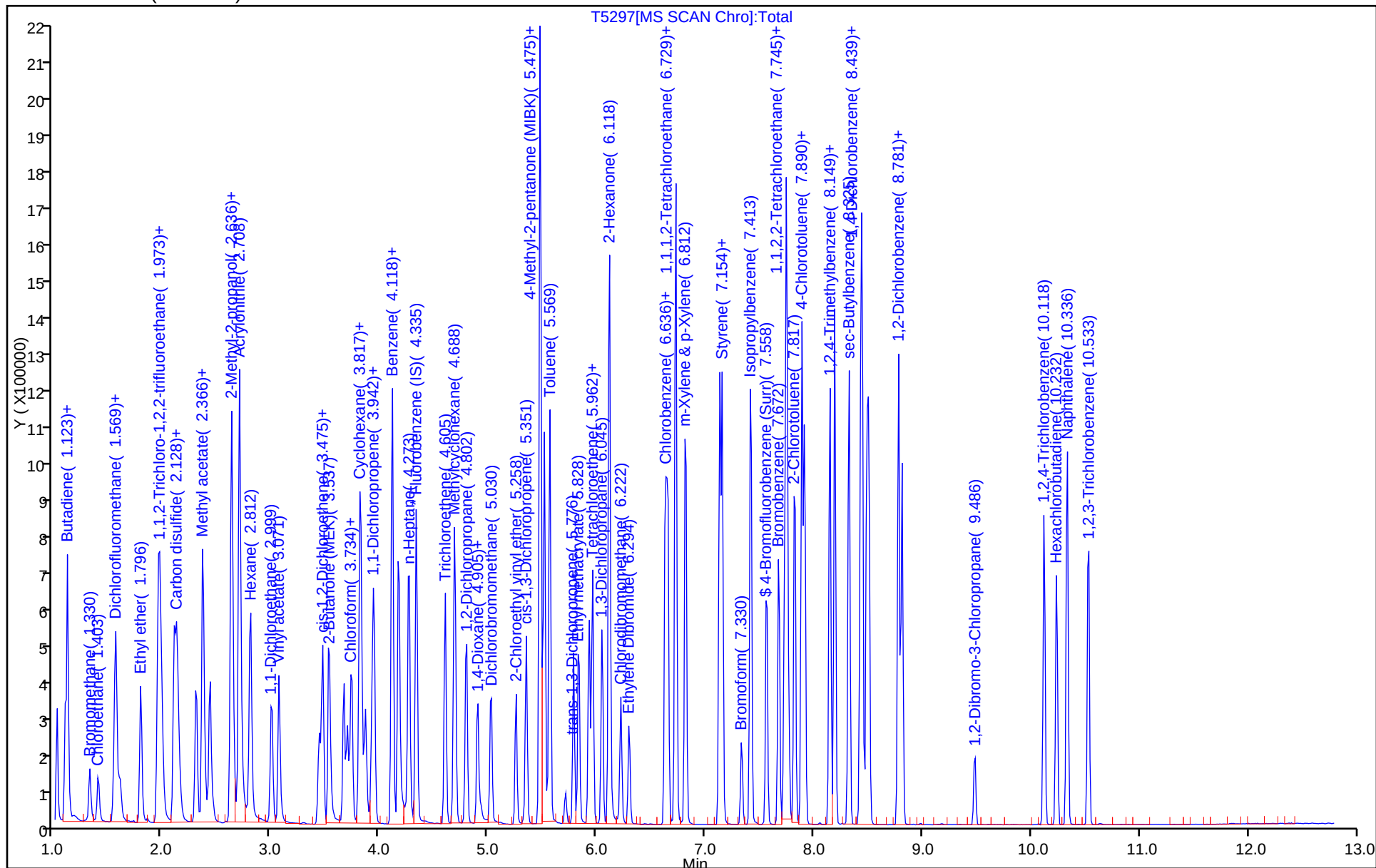
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4565.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 25-Aug-2014 15:43:30 ALS Bottle#: 94 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0034843-006
Operator ID: LH Instrument ID: HP5975T
Method: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Aug-2014 15:51:57 Calib Date: 27-Jun-2014 20:37:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: HillL

Date: 25-Aug-2014 15:51:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 5 BFB	95	4.846	4.846	0.000	83	247548	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

BFB_WRK_00036

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4565.D

Injection Date: 25-Aug-2014 15:43:30

Instrument ID: HP5975T

Lims ID: BFB

Client ID:

Operator ID: LH

ALS Bottle#: 94 Worklist Smp#: 6

Injection Vol: 1.0 uL

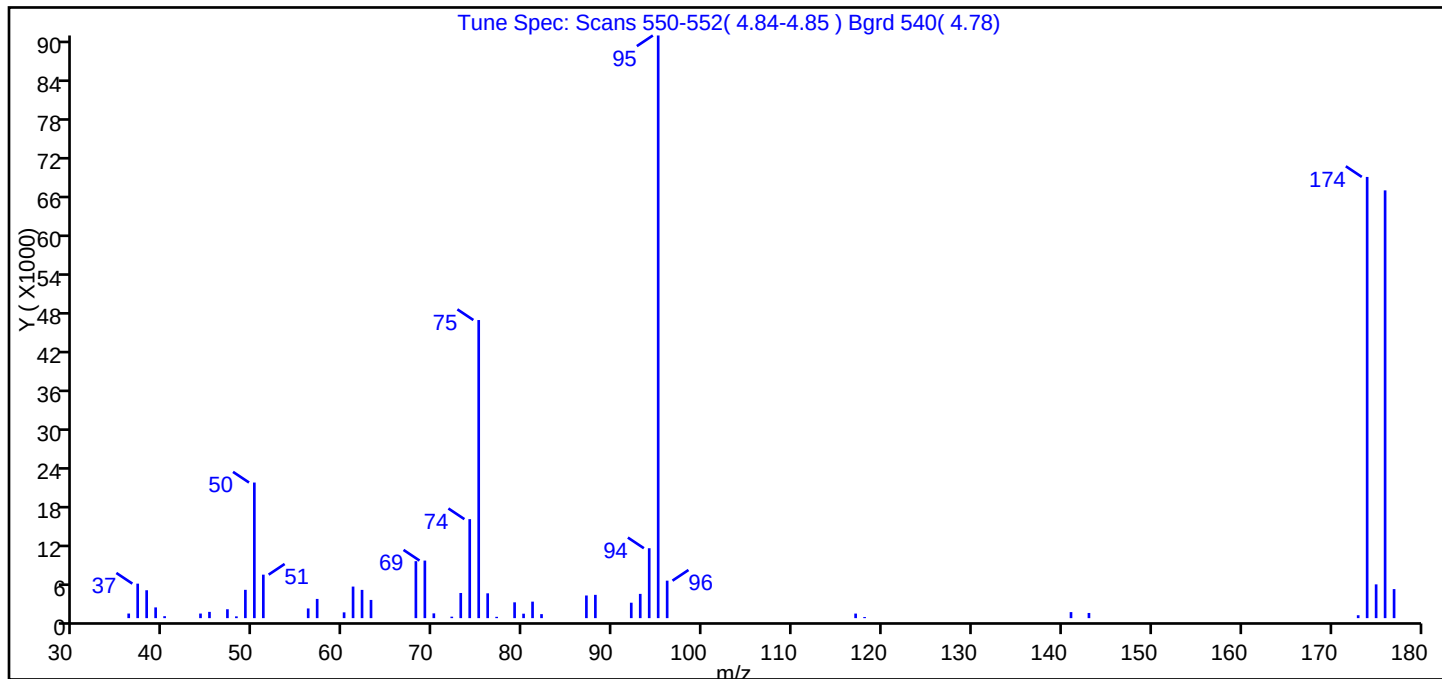
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.30
75	30.00 - 60.00% of mass 95	51.20
96	5.00 - 9.00% of mass 95	6.40
173	Less than 2.00% of mass 174	0.50 (0.70)
174	50.00 - 120.00% of mass 95	75.70
175	5.00 - 9.00% of mass 174	5.80 (7.70)
176	95.00 - 101.00% of mass 174	73.40 (97.00)
177	5.00 - 9.00% of mass 176	5.00 (6.80)

Data File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4565.D\T-8260.rslt\spectra.d

Injection Date: 25-Aug-2014 15:43:30

Spectrum: Tune Spec: Scans 550-552(4.84-4.85) Bgrd 540(4.78)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	713	56.00	1502	75.00	46112	95.00	90128
37.00	5337	57.00	2973	76.00	3840	96.00	5799
38.00	4315	60.00	896	77.00	204	117.00	706
39.00	1661	61.00	4883	79.00	2447	118.00	170
40.00	302	62.00	4371	80.00	689	141.00	935
44.00	710	63.00	2817	81.00	2553	143.00	801
45.00	970	68.00	8814	82.00	622	173.00	450
47.00	1377	69.00	8904	87.00	3505	174.00	68248
48.00	274	70.00	739	88.00	3603	175.00	5225
49.00	4380	72.00	228	92.00	2388	176.00	66168
50.00	20976	73.00	3891	93.00	3753	177.00	4495
51.00	6728	74.00	15313	94.00	10814		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5268.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Sep-2014 09:57:30 ALS Bottle#: 60 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0035277-001
Operator ID: CN Instrument ID: HP5975T
Method: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Sep-2014 10:13:32 Calib Date: 25-Aug-2014 22:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: manc

Date: 11-Sep-2014 10:13:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 5 BFB	95	4.870	4.870	0.000	85	186616	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

BFB_WRK_00036

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5268.D

Injection Date: 11-Sep-2014 09:57:30

Instrument ID: HP5975T

Lims ID: BFB

Client ID:

Operator ID: CN

ALS Bottle#: 60

Worklist Smp#: 1

Injection Vol: 1.0 uL

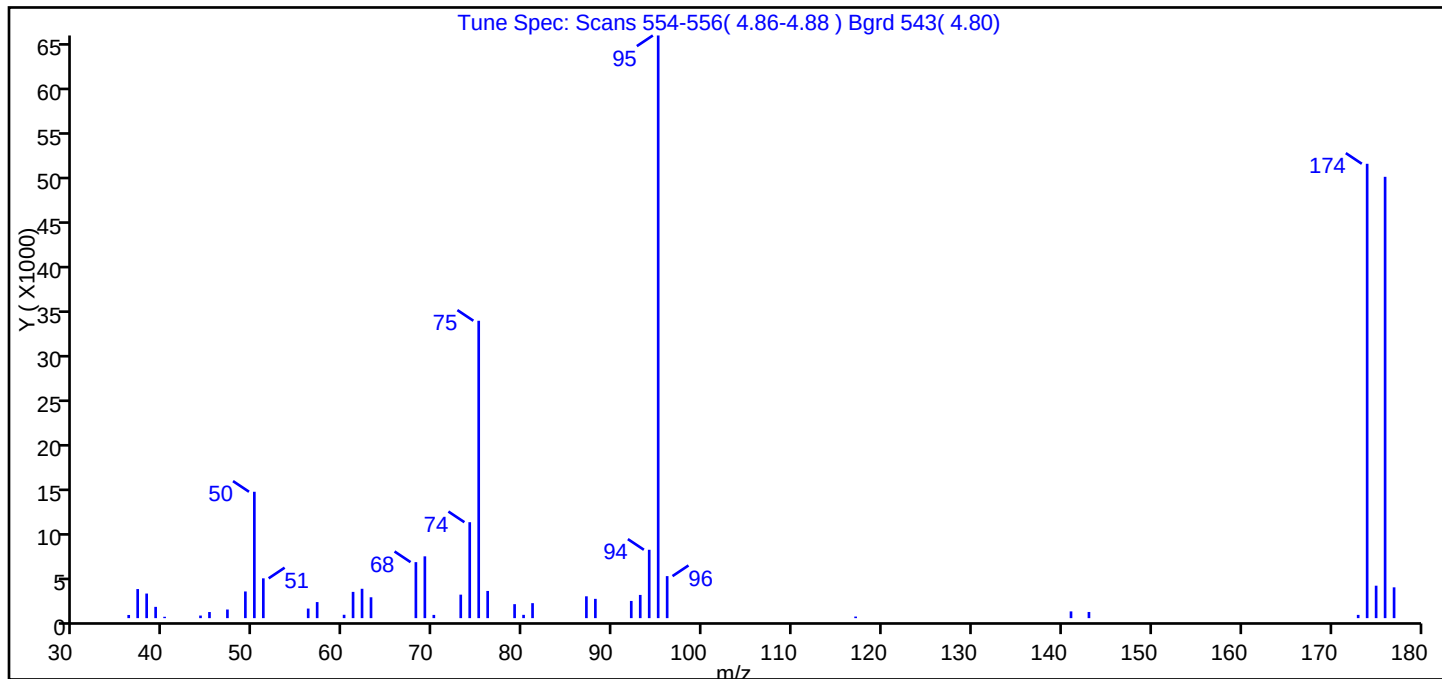
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.70
75	30.00 - 60.00% of mass 95	51.00
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.60 (0.70)
174	50.00 - 120.00% of mass 95	78.00
175	5.00 - 9.00% of mass 174	5.60 (7.10)
176	95.00 - 101.00% of mass 174	75.70 (97.10)
177	5.00 - 9.00% of mass 176	5.30 (7.00)

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5268.D\T-8260.rslt\spectra.d

Injection Date: 11-Sep-2014 09:57:30

Spectrum: Tune Spec: Scans 554-556(4.86-4.88) Bgrd 543(4.80)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 42

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	359	56.00	1084	75.00	33616	96.00	4751
37.00	3288	57.00	1817	76.00	3074	117.00	178
38.00	2780	60.00	381	79.00	1581	141.00	763
39.00	1275	61.00	2969	80.00	374	143.00	698
40.00	154	62.00	3319	81.00	1694	173.00	368
44.00	293	63.00	2359	87.00	2469	174.00	51360
45.00	692	68.00	6331	88.00	2181	175.00	3668
47.00	976	69.00	6987	92.00	1944	176.00	49888
49.00	3016	70.00	367	93.00	2625	177.00	3483
50.00	14285	73.00	2656	94.00	7729		
51.00	4500	74.00	10845	95.00	65864		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5296.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Sep-2014 22:45:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0035300-001
Operator ID: gtg Instrument ID: HP5975T
Method: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 12-Sep-2014 02:46:44 Calib Date: 25-Aug-2014 22:53:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: goliszekg

Date: 11-Sep-2014 22:55:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 5 BFB	95	4.846	4.846	0.000	0	252066	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

BFB_WRK_00036

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5296.D

Injection Date: 11-Sep-2014 22:45:30

Instrument ID: HP5975T

Lims ID: BFB

Client ID:

Operator ID: gtg

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

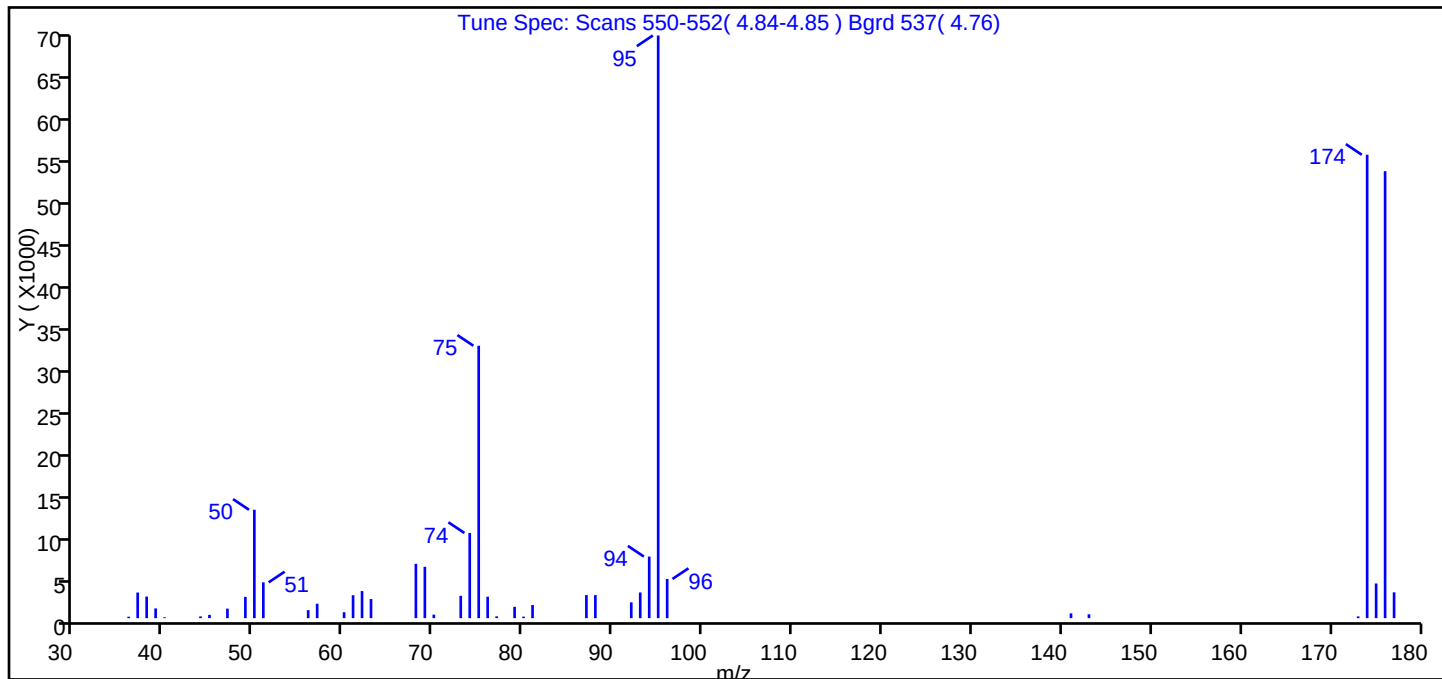
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.60
75	30.00 - 60.00% of mass 95	46.80
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.30 (0.40)
174	50.00 - 120.00% of mass 95	79.50
175	5.00 - 9.00% of mass 174	6.00 (7.50)
176	95.00 - 101.00% of mass 174	76.70 (96.50)
177	5.00 - 9.00% of mass 176	4.40 (5.80)

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5296.D\T-8260.rslt\spectra.d

Injection Date: 11-Sep-2014 22:45:30

Spectrum: Tune Spec: Scans 550-552(4.84-4.85) Bgrd 537(4.76)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 42

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	171	56.00	955	75.00	32520	95.00	69560
37.00	3055	57.00	1722	76.00	2559	96.00	4679
38.00	2578	60.00	706	77.00	215	141.00	569
39.00	1161	61.00	2734	79.00	1350	143.00	459
40.00	105	62.00	3230	80.00	179	173.00	210
44.00	207	63.00	2278	81.00	1569	174.00	55320
45.00	394	68.00	6486	87.00	2752	175.00	4139
47.00	1134	69.00	6130	88.00	2750	176.00	53360
49.00	2540	70.00	422	92.00	1883	177.00	3081
50.00	12937	73.00	2664	93.00	3066		
51.00	4274	74.00	10169	94.00	7350		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-201883/6

Matrix: Water Lab File ID: T5273.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 09/11/2014 13:18

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 201883 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-201883/6

Matrix: Water Lab File ID: T5273.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 09/11/2014 13:18

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 201883 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
79-20-9	Methyl acetate	2.5	U	2.5	0.50
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
95-47-6	o-Xylene	1.0	U	1.0	0.76
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		66-137
460-00-4	4-Bromofluorobenzene (Surr)	84		73-120
1868-53-7	Dibromofluoromethane (Surr)	91		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5273.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 11-Sep-2014 13:18:30 ALS Bottle#: 65 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0035277-006
 Operator ID: CN Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Sep-2014 14:53:14 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: manc

Date: 11-Sep-2014 14:53:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	98	622192	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.626	6.636	-0.010	89	441104	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	97	193623	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	146551	25.0	22.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	184647	25.0	22.2	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	93	540697	25.0	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	91	144888	25.0	20.9	
11 Dichlorodifluoromethane	85		0.916					ND	
12 Chlorodifluoromethane	51		0.936					ND	
13 Chloromethane	50		1.030					ND	
14 Vinyl chloride	62		1.102					ND	
151 Butadiene	54		1.123					ND	
15 Bromomethane	94		1.330					ND	
16 Chloroethane	64		1.403					ND	
17 Trichlorofluoromethane	101		1.558					ND	
18 Dichlorofluoromethane	67		1.569					ND	
19 Ethyl ether	59		1.797					ND	
148 Ethanol	45		1.828					ND	
84 Propene oxide	58		1.880					ND	
21 Acrolein	56		1.962					ND	
22 1,1-Dichloroethene	96		1.973					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		1.983					ND	
24 Iodomethane	142		2.107					ND	
23 Acetone	43		2.118					ND	
25 Carbon disulfide	76		2.128					ND	
26 Isopropyl alcohol	45		2.294					ND	
27 3-Chloro-1-propene	41		2.304					ND	
28 Methyl acetate	43		2.377					ND	
29 Acetonitrile	40		2.387					ND	
30 Methylene Chloride	84		2.439					ND	
32 trans-1,2-Dichloroethene	96		2.636					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 Methyl tert-butyl ether	73		2.636					ND	
31 2-Methyl-2-propanol	59		2.646					ND	
34 Acrylonitrile	53		2.709					ND	
35 Hexane	57		2.812					ND	
36 1,1-Dichloroethane	63		2.999					ND	
37 Isopropyl ether	45		3.030					ND	
38 2-Chloro-1,3-butadiene	53		3.051					ND	
139 Halothane	117		3.061					ND	
39 Vinyl acetate	43		3.071					ND	
40 1,1-Dimethoxyethane	75		3.102					ND	
41 Tert-butyl ethyl ether	59		3.320					ND	
42 2,2-Dichloropropane	77		3.444					ND	
43 cis-1,2-Dichloroethene	96		3.475					ND	
44 2-Butanone (MEK)	43		3.538					ND	
45 Ethyl acetate	43		3.558					ND	
46 Propionitrile	54		3.621					ND	
47 Chlorobromomethane	128		3.672					ND	
48 Tetrahydrofuran	42		3.703					ND	
49 Methacrylonitrile	41		3.703					ND	
50 Chloroform	83		3.745					ND	
52 Cyclohexane	56		3.817					ND	
51 1,1,1-Trichloroethane	97		3.817					ND	
53 Carbon tetrachloride	117		3.931					ND	
54 1,1-Dichloropropene	75		3.952					ND	
55 Benzene	78		4.118					ND	
152 Isooctane	57		4.118					ND	
57 1,2-Dichloroethane	62		4.180					ND	
56 Isobutyl alcohol	43		4.180					ND	
58 Tert-amyl methyl ether	73		4.201					ND	
147 t-Amyl alcohol	59		4.211					ND	
59 n-Heptane	43		4.263					ND	
1 1,4-Difluorobenzene	114		4.429					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.522					ND	
60 Trichloroethene	95		4.605					ND	
61 n-Butanol	56		4.667					ND	
62 Methylcyclohexane	83		4.688					ND	
140 2,4,4-Trimethyl-2-pentene	97		4.709					ND	
142 Ethyl acrylate	55		4.729					ND	
63 1,2-Dichloropropane	63		4.802					ND	
64 Methyl methacrylate	41		4.895					ND	
65 Dibromomethane	93		4.905					ND	
66 1,4-Dioxane	88		4.937					ND	
67 Dichlorobromomethane	83		5.030					ND	
68 2-Nitropropane	43		5.237					ND	
69 2-Chloroethyl vinyl ether	63		5.258					ND	
70 Epichlorohydrin	57		5.330					ND	
71 cis-1,3-Dichloropropene	75		5.351					ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.475					ND	
73 Toluene	92		5.569					ND	
74 2-Methylthiophene	97		5.672					ND	
75 trans-1,3-Dichloropropene	75		5.786					ND	
76 3-Methylthiophene	97		5.797					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
77 Ethyl methacrylate	69		5.838					ND	
78 1,1,2-Trichloroethane	83		5.931					ND	
79 Tetrachloroethene	166		5.962					ND	
80 1,3-Dichloropropane	76		6.045					ND	
81 2-Hexanone	43		6.118					ND	
155 n-Butyl acetate	43		6.201					ND	
82 Chlorodibromomethane	129		6.222					ND	
83 Ethylene Dibromide	107		6.294					ND	
146 1-Chlorohexane	55		6.626					ND	
85 3-Chlorobenzotrifluoride	180		6.636					ND	
86 Chlorobenzene	112		6.657					ND	
87 4-Chlorobenzotrifluoride	180		6.688					ND	
89 1,1,1,2-Tetrachloroethane	131		6.729					ND	
88 Ethylbenzene	91		6.729					ND	
90 m-Xylene & p-Xylene	106		6.812					ND	
91 o-Xylene	106		7.134					ND	
92 Styrene	104		7.154					ND	
93 Bromoform	173		7.330					ND	
94 2-Chlorobenzotrifluoride	180		7.362					ND	
95 Isopropylbenzene	105		7.413					ND	
96 Cyclohexanone	55		7.558					ND	
97 Bromobenzene	156		7.672					ND	
98 1,1,2,2-Tetrachloroethane	83		7.724					ND	
99 N-Propylbenzene	91		7.745					ND	
100 1,2,3-Trichloropropane	110		7.755					ND	
101 trans-1,4-Dichloro-2-buten	53		7.766					ND	
105 2-Chlorotoluene	126		7.828					ND	
103 3-Chlorotoluene	126		7.880					ND	
104 1,3,5-Trimethylbenzene	105		7.890					ND	
102 4-Chlorotoluene	91		7.911					ND	
106 tert-Butylbenzene	134		8.149					ND	
107 1,2,4-Trimethylbenzene	105		8.191					ND	
108 Pentachloroethane	167		8.191					ND	
109 sec-Butylbenzene	105		8.325					ND	
110 1,3-Dichlorobenzene	146		8.429					ND	
111 4-Isopropyltoluene	119		8.450					ND	
112 Dicyclopentadiene	66		8.481					ND	
113 1,4-Dichlorobenzene	146		8.501					ND	
114 1,2,3-Trimethylbenzene	105		8.533					ND	
150 Benzyl chloride	126		8.636					ND	
115 n-Butylbenzene	91		8.781					ND	
116 1,2-Dichlorobenzene	146		8.812					ND	
117 1,2-Dibromo-3-Chloropropan	75		9.486					ND	
118 1,3,5-Trichlorobenzene	180		9.600					ND	
119 1,2,4-Trichlorobenzene	180		10.118					ND	
120 Hexachlorobutadiene	225		10.232					ND	
121 Naphthalene	128		10.336					ND	
122 1,2,3-Trichlorobenzene	180		10.533					ND	
149 2-Methylnaphthalene	142		11.237					ND	
144 1-Bromopropane TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
135 Hexachloroethane	117		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
S 125 Total BTEX	1		30.000					0	
S 126 Xylenes, Total	1		30.000					0	
S 123 1,3-Dichloropropene, Total	1		30.000					0	
S 124 1,2-Dichloroethene, Total	1		30.000					0	
T 128 Hexachloroethane TIC	117		0.000					0	
T 129 Aziridine TIC	1		0.000					0	
T 127 Ethanol TIC	1		0.000					0	
T 10 Ethylene oxide	1		0.000					0	
T 9 bis(2-chloromethyl)ether T	1		0.000					0	
T 130 Bromoethane TIC	1		0.000					0	
T 131 tert-amyl alcohol TIC	1		0.000					0	
T 132 bis(chloromethyl)ether TIC	1		0.000					0	
T 133 Pentachloroethane TIC	1		0.000					0	
T 134 1-Bromopropane	1		0.000					0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00085	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00081	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5273.D

Injection Date: 11-Sep-2014 13:18:30

Instrument ID: HP5975T

Operator ID: CN

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

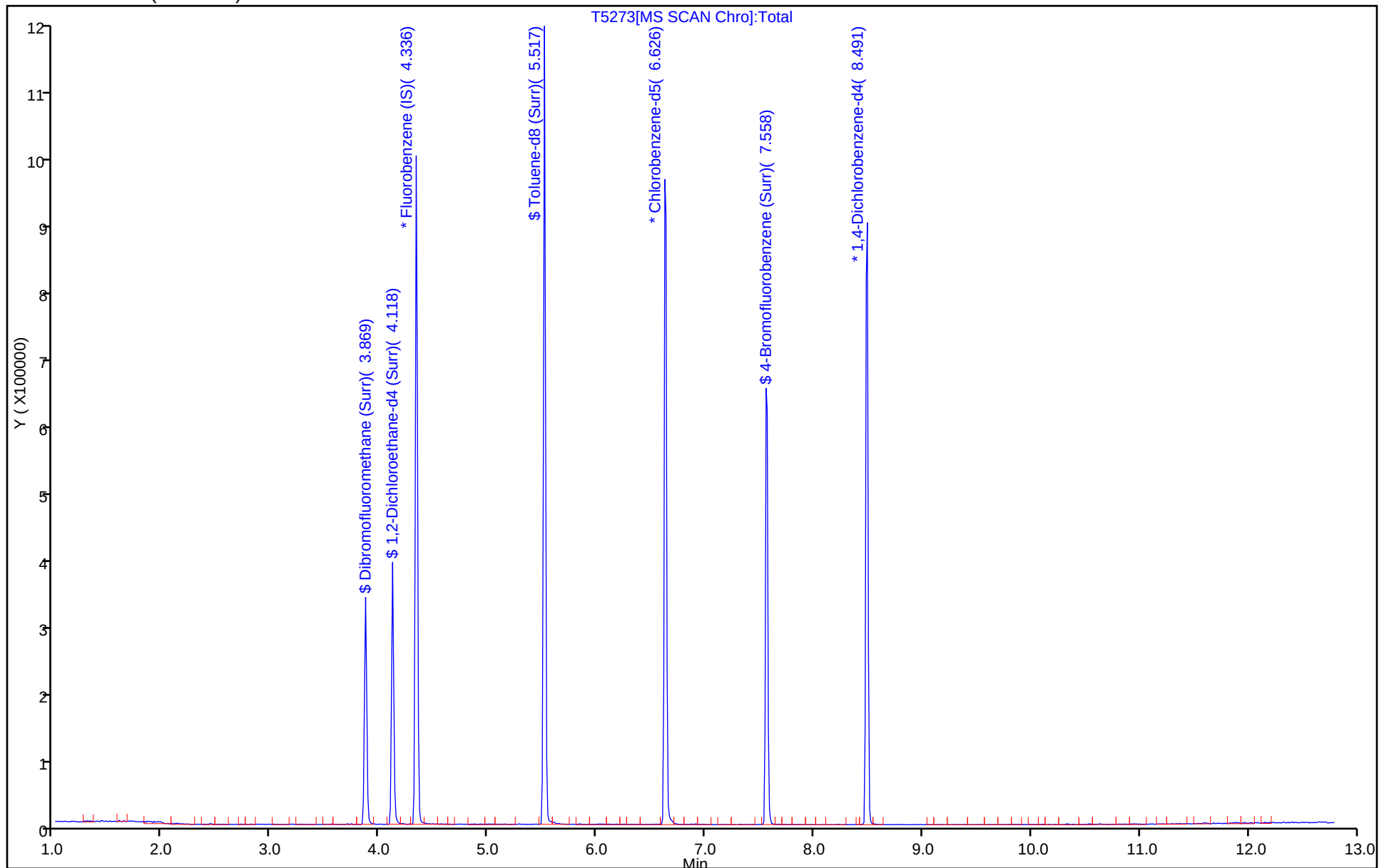
Dil. Factor: 1.0000

ALS Bottle#: 65

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-202028/6

Matrix: Water Lab File ID: T5301.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 09/12/2014 00:45

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 202028 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
526-73-8	1,2,3-Trimethylbenzene	1.0	U	1.0	0.26
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.79
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.78
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.84
78-93-3	2-Butanone (MEK)	10	U	10	1.3
591-78-6	2-Hexanone	5.0	U	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
110-82-7	Cyclohexane	1.0	U	1.0	0.18
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-202028/6

Matrix: Water Lab File ID: T5301.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 09/12/2014 00:45

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 202028 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
79-20-9	Methyl acetate	2.5	U	2.5	0.50
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
108-87-2	Methylcyclohexane	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
95-47-6	o-Xylene	1.0	U	1.0	0.76
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	93		60-140
2037-26-5	Toluene-d8 (Surr)	93		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5301.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 12-Sep-2014 00:45:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0035300-006
 Operator ID: gtg Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-Sep-2014 02:56:39 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: goliszekg

Date: 12-Sep-2014 01:06:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.336	-0.001	98	529474	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.626	0.010	87	381976	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	96	194232	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	127994	25.0	23.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	148359	25.0	21.0	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	93	461720	25.0	23.3	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	93	145449	25.0	24.3	
11 Dichlorodifluoromethane	85		0.916					ND	
12 Chlorodifluoromethane	51		0.937					ND	
13 Chloromethane	50		1.030					ND	
14 Vinyl chloride	62		1.102					ND	
151 Butadiene	54		1.123					ND	
15 Bromomethane	94		1.330					ND	
16 Chloroethane	64		1.403					ND	
17 Trichlorofluoromethane	101		1.569					ND	
18 Dichlorofluoromethane	67		1.569					ND	
19 Ethyl ether	59		1.796					ND	
148 Ethanol	45		1.838					ND	
84 Propene oxide	58		1.880					ND	
21 Acrolein	56		1.952					ND	
22 1,1-Dichloroethene	96		1.973					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		1.983					ND	
23 Acetone	43		2.107					ND	
24 Iodomethane	142		2.107					ND	
25 Carbon disulfide	76		2.128					ND	
26 Isopropyl alcohol	45		2.294					ND	
27 3-Chloro-1-propene	41		2.304					ND	
28 Methyl acetate	43		2.366					ND	
29 Acetonitrile	40		2.398					ND	
30 Methylene Chloride	84		2.439					ND	
32 trans-1,2-Dichloroethene	96		2.636					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
31 2-Methyl-2-propanol	59		2.636					ND	
33 Methyl tert-butyl ether	73		2.636					ND	
34 Acrylonitrile	53		2.708					ND	
35 Hexane	57		2.812					ND	
36 1,1-Dichloroethane	63		2.999					ND	
37 Isopropyl ether	45		3.030					ND	
38 2-Chloro-1,3-butadiene	53		3.051					ND	
139 Halothane	117		3.061					ND	
39 Vinyl acetate	43		3.071					ND	
40 1,1-Dimethoxyethane	75		3.102					ND	
41 Tert-butyl ethyl ether	59		3.320					ND	
42 2,2-Dichloropropane	77		3.444					ND	
43 cis-1,2-Dichloroethene	96		3.475					ND	
44 2-Butanone (MEK)	43		3.527					ND	
45 Ethyl acetate	43		3.558					ND	
46 Propionitrile	54		3.621					ND	
47 Chlorobromomethane	128		3.672					ND	
48 Tetrahydrofuran	42		3.703					ND	
49 Methacrylonitrile	41		3.703					ND	
50 Chloroform	83		3.734					ND	
52 Cyclohexane	56		3.817					ND	
51 1,1,1-Trichloroethane	97		3.817					ND	
53 Carbon tetrachloride	117		3.931					ND	
54 1,1-Dichloropropene	75		3.952					ND	
55 Benzene	78		4.118					ND	
152 Isooctane	57		4.118					ND	
56 Isobutyl alcohol	43		4.170					ND	
57 1,2-Dichloroethane	62		4.180					ND	
58 Tert-amyl methyl ether	73		4.201					ND	
147 t-Amyl alcohol	59		4.211					ND	
59 n-Heptane	43		4.273					ND	
1 1,4-Difluorobenzene	114		4.429					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.522					ND	
60 Trichloroethene	95		4.605					ND	
61 n-Butanol	56		4.667					ND	
62 Methylcyclohexane	83		4.688					ND	
140 2,4,4-Trimethyl-2-pentene	97		4.709					ND	
142 Ethyl acrylate	55		4.729					ND	
63 1,2-Dichloropropane	63		4.802					ND	
64 Methyl methacrylate	41		4.895					ND	
65 Dibromomethane	93		4.905					ND	
66 1,4-Dioxane	88		4.926					ND	
67 Dichlorobromomethane	83		5.030					ND	
68 2-Nitropropane	43		5.237					ND	
69 2-Chloroethyl vinyl ether	63		5.258					ND	
70 Epichlorohydrin	57		5.330					ND	
71 cis-1,3-Dichloropropene	75		5.351					ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.475					ND	
73 Toluene	92		5.569					ND	
74 2-Methylthiophene	97		5.672					ND	
75 trans-1,3-Dichloropropene	75		5.786					ND	
76 3-Methylthiophene	97		5.797					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
77 Ethyl methacrylate	69		5.828					ND	
78 1,1,2-Trichloroethane	83		5.931					ND	
79 Tetrachloroethene	166		5.962					ND	
80 1,3-Dichloropropane	76		6.045					ND	
81 2-Hexanone	43		6.118					ND	
155 n-Butyl acetate	43		6.201					ND	
82 Chlorodibromomethane	129		6.222					ND	
83 Ethylene Dibromide	107		6.294					ND	
146 1-Chlorohexane	55		6.626					ND	
85 3-Chlorobenzotrifluoride	180		6.636					ND	
86 Chlorobenzene	112		6.657					ND	
87 4-Chlorobenzotrifluoride	180		6.688					ND	
89 1,1,1,2-Tetrachloroethane	131		6.729					ND	
88 Ethylbenzene	91		6.729					ND	
90 m-Xylene & p-Xylene	106		6.823					ND	
91 o-Xylene	106		7.133					ND	
92 Styrene	104		7.154					ND	
93 Bromoform	173		7.330					ND	
94 2-Chlorobenzotrifluoride	180		7.362					ND	
95 Isopropylbenzene	105		7.413					ND	
96 Cyclohexanone	55		7.558					ND	
97 Bromobenzene	156		7.672					ND	
98 1,1,2,2-Tetrachloroethane	83		7.724					ND	
99 N-Propylbenzene	91		7.745					ND	
100 1,2,3-Trichloropropane	110		7.755					ND	
101 trans-1,4-Dichloro-2-buten	53		7.766					ND	
105 2-Chlorotoluene	126		7.828					ND	
103 3-Chlorotoluene	126		7.880					ND	
104 1,3,5-Trimethylbenzene	105		7.890					ND	
102 4-Chlorotoluene	91		7.911					ND	
106 tert-Butylbenzene	134		8.149					ND	
107 1,2,4-Trimethylbenzene	105		8.190					ND	
108 Pentachloroethane	167		8.191					ND	
109 sec-Butylbenzene	105		8.325					ND	
110 1,3-Dichlorobenzene	146		8.429					ND	
111 4-Isopropyltoluene	119		8.450					ND	
112 Dicyclopentadiene	66		8.481					ND	
113 1,4-Dichlorobenzene	146		8.501					ND	
114 1,2,3-Trimethylbenzene	105		8.533					ND	
150 Benzyl chloride	126		8.636					ND	
115 n-Butylbenzene	91		8.781					ND	
116 1,2-Dichlorobenzene	146		8.812					ND	
117 1,2-Dibromo-3-Chloropropan	75		9.486					ND	
118 1,3,5-Trichlorobenzene	180		9.600					ND	
119 1,2,4-Trichlorobenzene	180		10.118					ND	
120 Hexachlorobutadiene	225		10.232					ND	
121 Naphthalene	128		10.336					ND	
122 1,2,3-Trichlorobenzene	180		10.533					ND	
149 2-Methylnaphthalene	142		11.237					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5301.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
135 Hexachloroethane	117		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
S 125 Total BTEX	1		30.000					0	
S 126 Xylenes, Total	1		30.000					0	
S 123 1,3-Dichloropropene, Total	1		30.000					0	
S 124 1,2-Dichloroethene, Total	1		30.000					0	
T 128 Hexachloroethane TIC	117		0.000					0	
T 129 Aziridine TIC	1		0.000					0	
T 127 Ethanol TIC	1		0.000					0	
T 10 Ethylene oxide	1		0.000					0	
T 9 bis(2-chloromethyl)ether T	1		0.000					0	
T 130 Bromoethane TIC	1		0.000					0	
T 131 tert-amyl alcohol TIC	1		0.000					0	
T 132 bis(chloromethyl)ether TIC	1		0.000					0	
T 133 Pentachloroethane TIC	1		0.000					0	
T 134 1-Bromopropane	1		0.000					0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00085	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_Surr_00081	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5301.D

Injection Date: 12-Sep-2014 00:45:30

Instrument ID: HP5975T

Operator ID: gtg

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

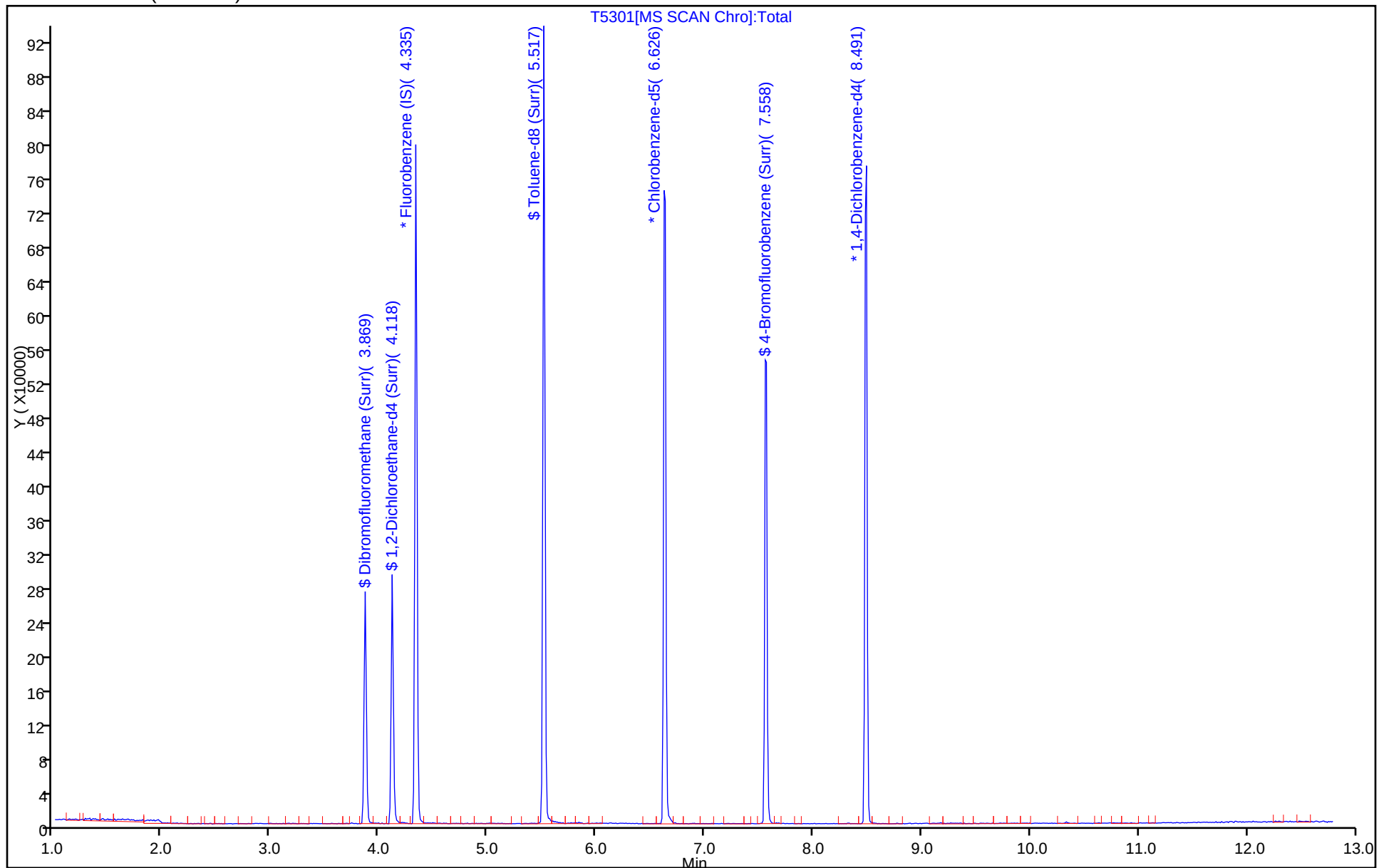
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-201883/4

Matrix: Water Lab File ID: T5271.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 09/11/2014 12:30

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 201883 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	24.0		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.3		1.0	0.31
79-00-5	1,1,2-Trichloroethane	24.5		1.0	0.23
75-34-3	1,1-Dichloroethane	24.1		1.0	0.38
75-35-4	1,1-Dichloroethene	26.4		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.5		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	26.3		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	28.2		1.0	0.39
106-93-4	1,2-Dibromoethane	25.8		1.0	0.73
95-50-1	1,2-Dichlorobenzene	25.8		1.0	0.79
107-06-2	1,2-Dichloroethane	24.8		1.0	0.21
78-87-5	1,2-Dichloropropane	25.7		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	26.3		1.0	0.77
541-73-1	1,3-Dichlorobenzene	26.1		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.8		1.0	0.84
78-93-3	2-Butanone (MEK)	128		10	1.3
591-78-6	2-Hexanone	113		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	107		5.0	2.1
67-64-1	Acetone	123		10	3.0
71-43-2	Benzene	25.4		1.0	0.41
75-27-4	Bromodichloromethane	26.3		1.0	0.39
75-25-2	Bromoform	30.6		1.0	0.26
74-83-9	Bromomethane	18.4		1.0	0.69
75-15-0	Carbon disulfide	23.4		1.0	0.19
56-23-5	Carbon tetrachloride	26.1		1.0	0.27
108-90-7	Chlorobenzene	25.0		1.0	0.75
75-00-3	Chloroethane	17.3		1.0	0.32
67-66-3	Chloroform	24.8		1.0	0.34
74-87-3	Chloromethane	17.7		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	28.6		1.0	0.36
110-82-7	Cyclohexane	21.6		1.0	0.18
124-48-1	Dibromochloromethane	27.6		1.0	0.32
100-41-4	Ethylbenzene	24.3		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-201883/4

Matrix: Water Lab File ID: T5271.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 09/11/2014 12:30

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 201883 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	26.0		1.0	0.79
179601-23-1	m,p-Xylene	25.4		2.0	0.66
79-20-9	Methyl acetate	112		2.5	0.50
1634-04-4	Methyl tert-butyl ether	24.8		1.0	0.16
108-87-2	Methylcyclohexane	23.8		1.0	0.16
75-09-2	Methylene Chloride	25.1		1.0	0.44
95-47-6	o-Xylene	24.5		1.0	0.76
100-42-5	Styrene	24.6		1.0	0.73
127-18-4	Tetrachloroethene	23.5		1.0	0.36
108-88-3	Toluene	24.0		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.7		1.0	0.37
79-01-6	Trichloroethene	26.7		1.0	0.46
75-69-4	Trichlorofluoromethane	24.8		1.0	0.88
75-01-4	Vinyl chloride	17.7		1.0	0.90
1330-20-7	Xylenes, Total	49.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		66-137
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		60-140
2037-26-5	Toluene-d8 (Surr)	90		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5271.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 11-Sep-2014 12:30:30 ALS Bottle#: 63 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0035277-004
 Operator ID: CN Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Sep-2014 13:25:28 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: manc

Date: 11-Sep-2014 13:25:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.336	4.336	0.000	99	633920	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.636	0.000	87	508373	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	95	259778	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	93	159685	25.0	24.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	190766	25.0	22.5	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	94	595605	25.0	22.6	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	90	189179	25.0	23.7	
11 Dichlorodifluoromethane	85	0.905	0.916	-0.011	99	114155	25.0	12.0	
13 Chloromethane	50	1.030	1.030	0.000	99	202600	25.0	17.7	
14 Vinyl chloride	62	1.102	1.102	0.000	98	183354	25.0	17.7	
151 Butadiene	54	1.123	1.123	0.000	90	194984	25.0	15.3	
15 Bromomethane	94	1.320	1.330	-0.010	92	60165	25.0	18.4	
16 Chloroethane	64	1.403	1.403	0.000	100	74878	25.0	17.3	M
17 Trichlorofluoromethane	101	1.558	1.558	0.000	99	225654	25.0	24.8	
18 Dichlorofluoromethane	67	1.558	1.569	-0.011	97	229011	25.0	24.8	
19 Ethyl ether	59	1.797	1.797	0.000	96	178592	25.0	23.9	
21 Acrolein	56	1.952	1.962	-0.010	99	270780	125.0	187.9	
22 1,1-Dichloroethene	96	1.963	1.973	-0.011	94	155587	25.0	26.4	
20 1,1,2-Trichloro-1,2,2-trif	101	1.983	1.983	0.000	94	160188	25.0	25.3	
24 Iodomethane	142	2.108	2.107	0.001	99	233438	25.0	23.5	
23 Acetone	43	2.108	2.118	-0.010	100	445691	125.0	122.7	
25 Carbon disulfide	76	2.128	2.128	0.000	100	524057	25.0	23.4	
27 3-Chloro-1-propene	41	2.304	2.304	0.000	91	290114	25.0	22.4	
28 Methyl acetate	43	2.367	2.377	-0.010	99	1245689	125.0	112.2	
30 Methylene Chloride	84	2.439	2.439	0.000	99	190584	25.0	25.1	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	98	584097	25.0	24.8	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	95	182007	25.0	25.6	
31 2-Methyl-2-propanol	59	2.646	2.646	0.000	96	380684	250.0	327.2	
34 Acrylonitrile	53	2.709	2.709	0.001	99	1192661	250.0	259.6	
35 Hexane	57	2.802	2.812	-0.010	92	295715	25.0	21.2	
36 1,1-Dichloroethane	63	2.999	2.999	0.000	97	351838	25.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.071	3.071	0.000	97	622012	50.0	62.0	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	93	151278	25.0	23.0	
43 cis-1,2-Dichloroethene	96	3.476	3.475	0.001	81	191213	25.0	25.2	
44 2-Butanone (MEK)	43	3.527	3.538	-0.011	99	786160	125.0	128.0	
47 Chlorobromomethane	128	3.672	3.672	0.000	97	100967	25.0	26.2	
48 Tetrahydrofuran	42	3.703	3.703	0.000	91	206958	50.0	47.9	
50 Chloroform	83	3.735	3.745	-0.010	94	316966	25.0	24.8	
51 1,1,1-Trichloroethane	97	3.817	3.817	0.000	98	243247	25.0	25.8	
52 Cyclohexane	56	3.817	3.817	0.000	92	358313	25.0	21.6	
53 Carbon tetrachloride	117	3.931	3.931	0.000	97	204716	25.0	26.1	
54 1,1-Dichloropropene	75	3.942	3.952	-0.010	95	233052	25.0	24.7	
55 Benzene	78	4.118	4.118	0.000	98	729421	25.0	25.4	
56 Isobutyl alcohol	43	4.170	4.180	-0.010	94	407092	625.0	905.5	
57 1,2-Dichloroethane	62	4.170	4.180	-0.010	97	275503	25.0	24.8	
59 n-Heptane	43	4.263	4.263	0.000	94	309304	25.0	18.5	
60 Trichloroethene	95	4.605	4.605	0.000	98	187194	25.0	26.7	
62 Methylcyclohexane	83	4.688	4.688	0.000	95	295920	25.0	23.8	
63 1,2-Dichloropropane	63	4.802	4.802	0.000	95	203298	25.0	25.7	
65 Dibromomethane	93	4.895	4.905	-0.010	95	120085	25.0	26.6	
66 1,4-Dioxane	88	4.937	4.937	0.000	99	75828	500.0	763.1	
67 Dichlorobromomethane	83	5.020	5.030	-0.010	99	235640	25.0	26.3	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	91	152411	25.0	27.2	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	94	270057	25.0	28.6	
72 4-Methyl-2-pentanone (MIBK)	43	5.476	5.475	0.001	97	1585122	125.0	107.4	
73 Toluene	92	5.569	5.569	0.000	98	450617	25.0	24.0	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	95	226153	25.0	26.7	
77 Ethyl methacrylate	69	5.828	5.838	-0.010	92	267055	25.0	24.7	
78 1,1,2-Trichloroethane	83	5.932	5.931	0.001	91	154809	25.0	24.5	
79 Tetrachloroethene	166	5.963	5.962	0.001	95	187089	25.0	23.5	
80 1,3-Dichloropropane	76	6.046	6.045	0.001	94	312095	25.0	24.8	
81 2-Hexanone	43	6.118	6.118	0.000	97	1183703	125.0	112.7	
82 Chlorodibromomethane	129	6.222	6.222	0.000	90	178452	25.0	27.6	
83 Ethylene Dibromide	107	6.294	6.294	0.000	99	192294	25.0	25.8	
86 Chlorobenzene	112	6.657	6.657	0.000	94	531801	25.0	25.0	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	45	167637	25.0	26.4	
88 Ethylbenzene	91	6.729	6.729	0.000	98	880463	25.0	24.3	
90 m-Xylene & p-Xylene	106	6.823	6.812	0.011	0	357680	25.0	25.4	
91 o-Xylene	106	7.134	7.134	0.000	97	330793	25.0	24.5	
92 Styrene	104	7.154	7.154	0.000	96	572399	25.0	24.6	
93 Bromoform	173	7.331	7.330	0.001	96	116700	25.0	30.6	
95 Isopropylbenzene	105	7.413	7.413	0.000	96	908274	25.0	26.0	
97 Bromobenzene	156	7.673	7.672	0.001	99	201188	25.0	24.3	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	96	260578	25.0	24.0	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	998615	25.0	24.4	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	89	89845	25.0	26.2	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	87	72828	25.0	42.1	
105 2-Chlorotoluene	126	7.828	7.828	0.000	96	208160	25.0	26.5	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	95	767484	25.0	26.3	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	740532	25.0	25.9	
106 tert-Butylbenzene	134	8.149	8.149	0.000	94	152914	25.0	25.6	
107 1,2,4-Trimethylbenzene	105	8.191	8.191	0.000	97	803126	25.0	26.3	
109 sec-Butylbenzene	105	8.325	8.325	0.000	94	951618	25.0	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	97	419708	25.0	26.1	
111 4-Isopropyltoluene	119	8.450	8.450	0.000	97	822146	25.0	25.8	
113 1,4-Dichlorobenzene	146	8.502	8.501	0.001	93	422115	25.0	25.8	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	730993	25.0	24.9	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	97	409499	25.0	25.8	
117 1,2-Dibromo-3-Chloropropan	75	9.486	9.486	0.000	81	52269	25.0	28.2	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	94	270708	25.0	25.5	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	97	126317	25.0	25.5	
121 Naphthalene	128	10.336	10.336	0.000	97	870917	25.0	26.4	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	96	263656	25.0	26.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00019

Amount Added: 12.50

Units: uL

GAS CORP mix_00045

Amount Added: 12.50

Units: uL

T_8260_IS_00085

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00081

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5271.D

Injection Date: 11-Sep-2014 12:30:30

Instrument ID: HP5975T

Lims ID: LCS

Operator ID: CN

Client ID:

Worklist Smp#: 4

Purge Vol: 5.000 mL

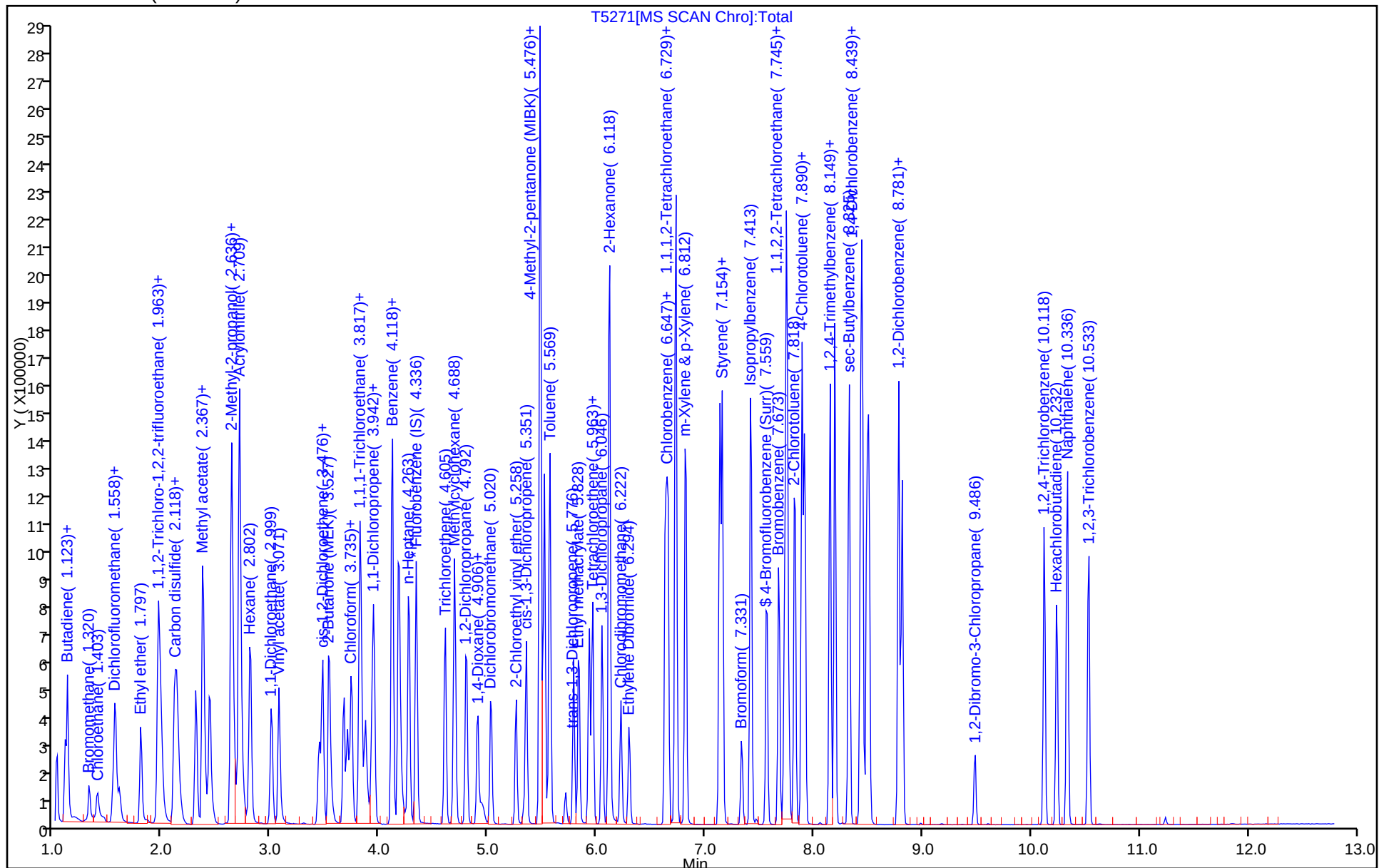
Dil. Factor: 1.0000

ALS Bottle#: 63

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35277.b\T5271.D

Injection Date: 11-Sep-2014 12:30:30

Instrument ID: HP5975T

Lims ID: LCS

Client ID:

Operator ID: CN

ALS Bottle#: 63

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

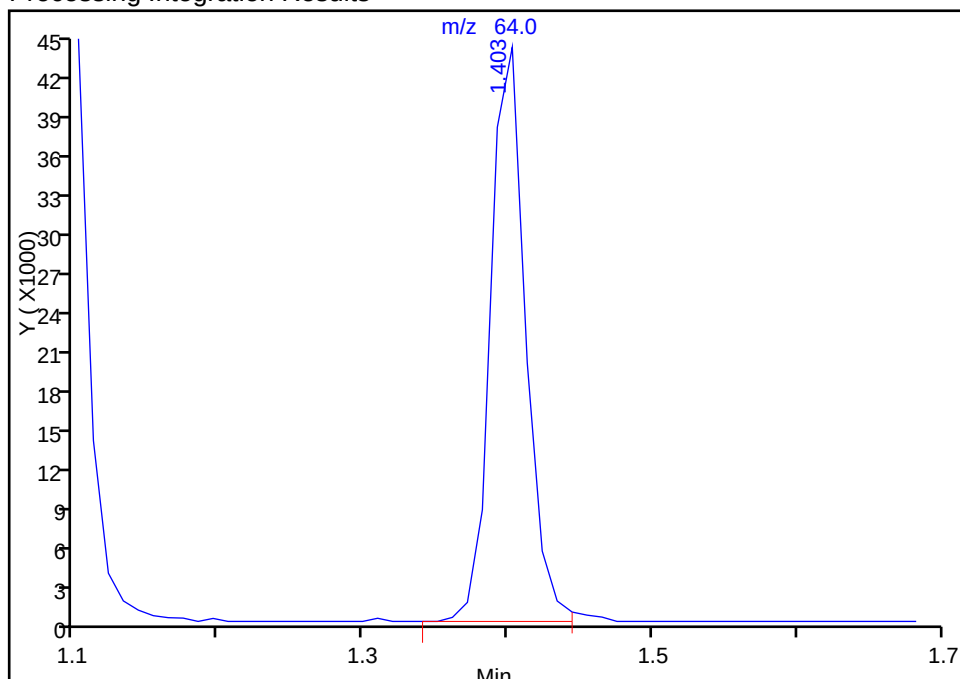
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

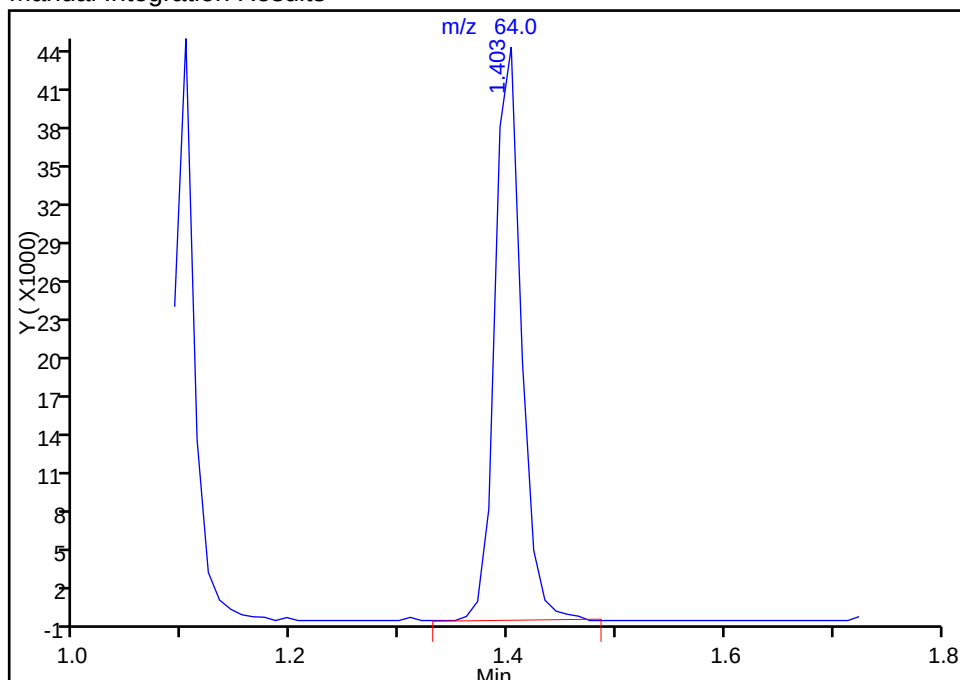
16 Chloroethane, CAS: 75-00-3

RT: 1.40
Response: 74628
Amount: 17.211734

Processing Integration Results

RT: 1.40
Response: 74878
Amount: 17.269392

Manual Integration Results



Reviewer: manc, 11-Sep-2014 13:25:28

Audit Action: Manually Integrated

Audit Reason: Other

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-202028/4

Matrix: Water Lab File ID: T5299.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 09/11/2014 23:57

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 202028 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	24.1		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26.2		1.0	0.31
79-00-5	1,1,2-Trichloroethane	20.9		1.0	0.23
75-34-3	1,1-Dichloroethane	20.6		1.0	0.38
75-35-4	1,1-Dichloroethene	27.9		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.8		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	23.4		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	25.6		1.0	0.39
106-93-4	1,2-Dibromoethane	24.5		1.0	0.73
95-50-1	1,2-Dichlorobenzene	23.8		1.0	0.79
107-06-2	1,2-Dichloroethane	21.1		1.0	0.21
78-87-5	1,2-Dichloropropane	23.1		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	23.9		1.0	0.77
541-73-1	1,3-Dichlorobenzene	24.3		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.3		1.0	0.84
78-93-3	2-Butanone (MEK)	107		10	1.3
591-78-6	2-Hexanone	89.8		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	87.0		5.0	2.1
67-64-1	Acetone	108		10	3.0
71-43-2	Benzene	22.7		1.0	0.41
75-27-4	Bromodichloromethane	23.4		1.0	0.39
75-25-2	Bromoform	24.6		1.0	0.26
74-83-9	Bromomethane	24.8		1.0	0.69
75-15-0	Carbon disulfide	20.3		1.0	0.19
56-23-5	Carbon tetrachloride	23.1		1.0	0.27
108-90-7	Chlorobenzene	22.7		1.0	0.75
75-00-3	Chloroethane	23.2		1.0	0.32
67-66-3	Chloroform	21.9		1.0	0.34
74-87-3	Chloromethane	19.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	22.8		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.7		1.0	0.36
110-82-7	Cyclohexane	19.1		1.0	0.18
124-48-1	Dibromochloromethane	22.7		1.0	0.32
100-41-4	Ethylbenzene	23.2		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-202028/4

Matrix: Water Lab File ID: T5299.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 09/11/2014 23:57

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 202028 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	23.3		1.0	0.79
179601-23-1	m,p-Xylene	23.2		2.0	0.66
79-20-9	Methyl acetate	94.0		2.5	0.50
1634-04-4	Methyl tert-butyl ether	22.5		1.0	0.16
108-87-2	Methylcyclohexane	22.3		1.0	0.16
75-09-2	Methylene Chloride	22.1		1.0	0.44
95-47-6	o-Xylene	20.4		1.0	0.76
100-42-5	Styrene	21.0		1.0	0.73
127-18-4	Tetrachloroethene	20.1		1.0	0.36
108-88-3	Toluene	20.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	22.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	23.0		1.0	0.37
79-01-6	Trichloroethene	23.9		1.0	0.46
75-69-4	Trichlorofluoromethane	27.1		1.0	0.88
75-01-4	Vinyl chloride	19.9		1.0	0.90
1330-20-7	Xylenes, Total	43.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		66-137
460-00-4	4-Bromofluorobenzene (Surr)	84		73-120
1868-53-7	Dibromofluoromethane (Surr)	91		60-140
2037-26-5	Toluene-d8 (Surr)	82		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5299.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 11-Sep-2014 23:57:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0035300-004
 Operator ID: gtg Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 12-Sep-2014 02:49:48 Calib Date: 25-Aug-2014 22:53:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5975T\20140825-34843.b\T4583.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK053

First Level Reviewer: goliszekg

Date: 12-Sep-2014 01:06:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	96	4.335	4.336	-0.001	99	545472	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.636	6.626	0.010	87	463941	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.491	8.491	0.000	95	212942	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	3.869	3.869	0.000	92	129311	25.0	22.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.118	4.118	0.000	0	149167	25.0	20.5	
\$ 6 Toluene-d8 (Surr)	98	5.517	5.517	0.000	93	491572	25.0	20.5	
\$ 7 4-Bromofluorobenzene (Surr	174	7.569	7.569	0.000	92	153652	25.0	21.1	
11 Dichlorodifluoromethane	85	0.916	0.916	0.000	99	99148	25.0	12.1	
13 Chloromethane	50	1.030	1.030	0.000	99	192393	25.0	19.6	
14 Vinyl chloride	62	1.102	1.102	0.000	97	177450	25.0	19.9	
151 Butadiene	54	1.123	1.123	0.000	91	180949	25.0	16.5	
15 Bromomethane	94	1.330	1.330	0.000	91	69892	25.0	24.8	
16 Chloroethane	64	1.413	1.403	0.010	99	86578	25.0	23.2	
17 Trichlorofluoromethane	101	1.569	1.569	0.000	60	212602	25.0	27.1	
18 Dichlorofluoromethane	67	1.569	1.569	0.000	96	222943	25.0	28.1	
19 Ethyl ether	59	1.796	1.796	0.000	97	187236	25.0	29.2	
21 Acrolein	56	1.962	1.952	0.010	100	251762	125.0	203.0	
22 1,1-Dichloroethene	96	1.973	1.973	0.000	94	141113	25.0	27.9	
20 1,1,2-Trichloro-1,2,2-trif	101	1.993	1.983	0.010	93	142627	25.0	26.2	
23 Acetone	43	2.107	2.107	0.000	100	337458	125.0	107.9	
24 Iodomethane	142	2.107	2.107	0.000	99	166369	25.0	19.5	
25 Carbon disulfide	76	2.149	2.128	0.021	100	389814	25.0	20.3	
27 3-Chloro-1-propene	41	2.315	2.304	0.011	92	212310	25.0	19.1	
28 Methyl acetate	43	2.366	2.366	0.000	98	898136	125.0	94.0	
30 Methylene Chloride	84	2.439	2.439	0.000	96	145120	25.0	22.1	
32 trans-1,2-Dichloroethene	96	2.636	2.636	0.000	95	134418	25.0	22.0	
31 2-Methyl-2-propanol	59	2.636	2.636	0.000	51	253700	250.0	253.4	
33 Methyl tert-butyl ether	73	2.636	2.636	0.000	98	454262	25.0	22.5	
34 Acrylonitrile	53	2.708	2.708	0.000	99	869686	250.0	220.0	
35 Hexane	57	2.812	2.812	0.000	90	233241	25.0	19.4	
36 1,1-Dichloroethane	63	3.009	2.999	0.010	96	259563	25.0	20.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.071	3.071	0.000	97	468350	50.0	54.2	
42 2,2-Dichloropropane	77	3.444	3.444	0.000	93	115816	25.0	20.4	
43 cis-1,2-Dichloroethene	96	3.475	3.475	0.000	83	148677	25.0	22.8	
44 2-Butanone (MEK)	43	3.537	3.527	0.010	100	566483	125.0	107.2	
47 Chlorobromomethane	128	3.672	3.672	0.000	97	76516	25.0	23.0	
48 Tetrahydrofuran	42	3.703	3.703	0.000	89	144943	50.0	39.0	
50 Chloroform	83	3.745	3.734	0.011	94	240678	25.0	21.9	
52 Cyclohexane	56	3.817	3.817	0.000	91	273336	25.0	19.1	
51 1,1,1-Trichloroethane	97	3.828	3.817	0.011	98	177613	25.0	21.9	
53 Carbon tetrachloride	117	3.931	3.931	0.000	98	156031	25.0	23.1	
54 1,1-Dichloropropene	75	3.952	3.952	0.000	97	177899	25.0	21.9	
55 Benzene	78	4.118	4.118	0.000	96	561360	25.0	22.7	
56 Isobutyl alcohol	43	4.170	4.170	0.000	93	259860	625.0	671.7	
57 1,2-Dichloroethane	62	4.180	4.180	0.000	96	201631	25.0	21.1	
59 n-Heptane	43	4.263	4.273	-0.010	93	266681	25.0	18.5	
60 Trichloroethene	95	4.605	4.605	0.000	98	144230	25.0	23.9	
62 Methylcyclohexane	83	4.688	4.688	0.000	94	238537	25.0	22.3	
63 1,2-Dichloropropane	63	4.802	4.802	0.000	97	157028	25.0	23.1	
65 Dibromomethane	93	4.905	4.905	0.000	95	94648	25.0	24.3	
66 1,4-Dioxane	88	4.936	4.926	0.010	97	51412	500.0	569.6	
67 Dichlorobromomethane	83	5.030	5.030	0.000	99	180649	25.0	23.4	
69 2-Chloroethyl vinyl ether	63	5.258	5.258	0.000	91	119026	25.0	24.7	
71 cis-1,3-Dichloropropene	75	5.351	5.351	0.000	96	208922	25.0	25.7	
72 4-Methyl-2-pentanone (MIBK)	43	5.475	5.475	0.000	96	1171508	125.0	87.0	
73 Toluene	92	5.569	5.569	0.000	98	353008	25.0	20.6	
75 trans-1,3-Dichloropropene	75	5.786	5.786	0.000	93	177584	25.0	23.0	
77 Ethyl methacrylate	69	5.828	5.828	0.000	91	207732	25.0	21.1	
78 1,1,2-Trichloroethane	83	5.931	5.931	0.000	91	120705	25.0	20.9	
79 Tetrachloroethene	166	5.962	5.962	0.000	95	145826	25.0	20.1	
80 1,3-Dichloropropane	76	6.045	6.045	0.000	92	240784	25.0	21.0	
81 2-Hexanone	43	6.118	6.118	0.000	94	860172	125.0	89.8	
82 Chlorodibromomethane	129	6.222	6.222	0.000	90	134046	25.0	22.7	
83 Ethylene Dibromide	107	6.294	6.294	0.000	98	166092	25.0	24.5	
86 Chlorobenzene	112	6.657	6.657	0.000	95	441421	25.0	22.7	
89 1,1,1,2-Tetrachloroethane	131	6.729	6.729	0.000	45	139077	25.0	24.0	
88 Ethylbenzene	91	6.729	6.729	0.000	99	765422	25.0	23.2	
90 m-Xylene & p-Xylene	106	6.812	6.823	-0.011	0	297905	25.0	23.2	
91 o-Xylene	106	7.133	7.133	0.000	97	251884	25.0	20.4	
92 Styrene	104	7.154	7.154	0.000	96	447068	25.0	21.0	
93 Bromoform	173	7.330	7.330	0.000	97	85689	25.0	24.6	
95 Isopropylbenzene	105	7.413	7.413	0.000	96	667368	25.0	23.3	
97 Bromobenzene	156	7.672	7.672	0.000	96	166913	25.0	24.6	
98 1,1,2,2-Tetrachloroethane	83	7.724	7.724	0.000	94	214541	25.0	24.1	
99 N-Propylbenzene	91	7.745	7.745	0.000	99	777987	25.0	23.2	
100 1,2,3-Trichloropropane	110	7.755	7.755	0.000	88	70007	25.0	24.9	
101 trans-1,4-Dichloro-2-buten	53	7.766	7.766	0.000	77	45007	25.0	33.8	
105 2-Chlorotoluene	126	7.828	7.828	0.000	96	152835	25.0	23.7	
104 1,3,5-Trimethylbenzene	105	7.890	7.890	0.000	93	570623	25.0	23.9	
102 4-Chlorotoluene	91	7.911	7.911	0.000	99	535248	25.0	22.8	
106 tert-Butylbenzene	134	8.149	8.149	0.000	93	116279	25.0	23.7	
107 1,2,4-Trimethylbenzene	105	8.190	8.190	0.000	97	586174	25.0	23.4	
109 sec-Butylbenzene	105	8.325	8.325	0.000	94	717365	25.0	23.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	8.429	8.429	0.000	98	320078	25.0	24.3	
111 4-Isopropyltoluene	119	8.450	8.450	0.000	97	611610	25.0	23.4	
113 1,4-Dichlorobenzene	146	8.501	8.501	0.000	97	326586	25.0	24.3	
115 n-Butylbenzene	91	8.781	8.781	0.000	98	540490	25.0	22.4	
116 1,2-Dichlorobenzene	146	8.812	8.812	0.000	97	310576	25.0	23.8	
117 1,2-Dibromo-3-Chloropropan	75	9.475	9.486	-0.011	84	38935	25.0	25.6	
119 1,2,4-Trichlorobenzene	180	10.118	10.118	0.000	95	224512	25.0	25.8	
120 Hexachlorobutadiene	225	10.232	10.232	0.000	98	111531	25.0	27.5	
121 Naphthalene	128	10.336	10.336	0.000	97	756035	25.0	28.0	
122 1,2,3-Trichlorobenzene	180	10.533	10.533	0.000	95	217530	25.0	26.3	

Reagents:

8260 CORP mix_00019

Amount Added: 12.50

Units: uL

GAS CORP mix_00045

Amount Added: 12.50

Units: uL

T_8260_IS_00085

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00081

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140911-35300.b\T5299.D

Injection Date: 11-Sep-2014 23:57:30

Instrument ID: HP5975T

Lims ID: LCS

Operator ID: gtg

Client ID:

Worklist Smp#: 4

Purge Vol: 5.000 mL

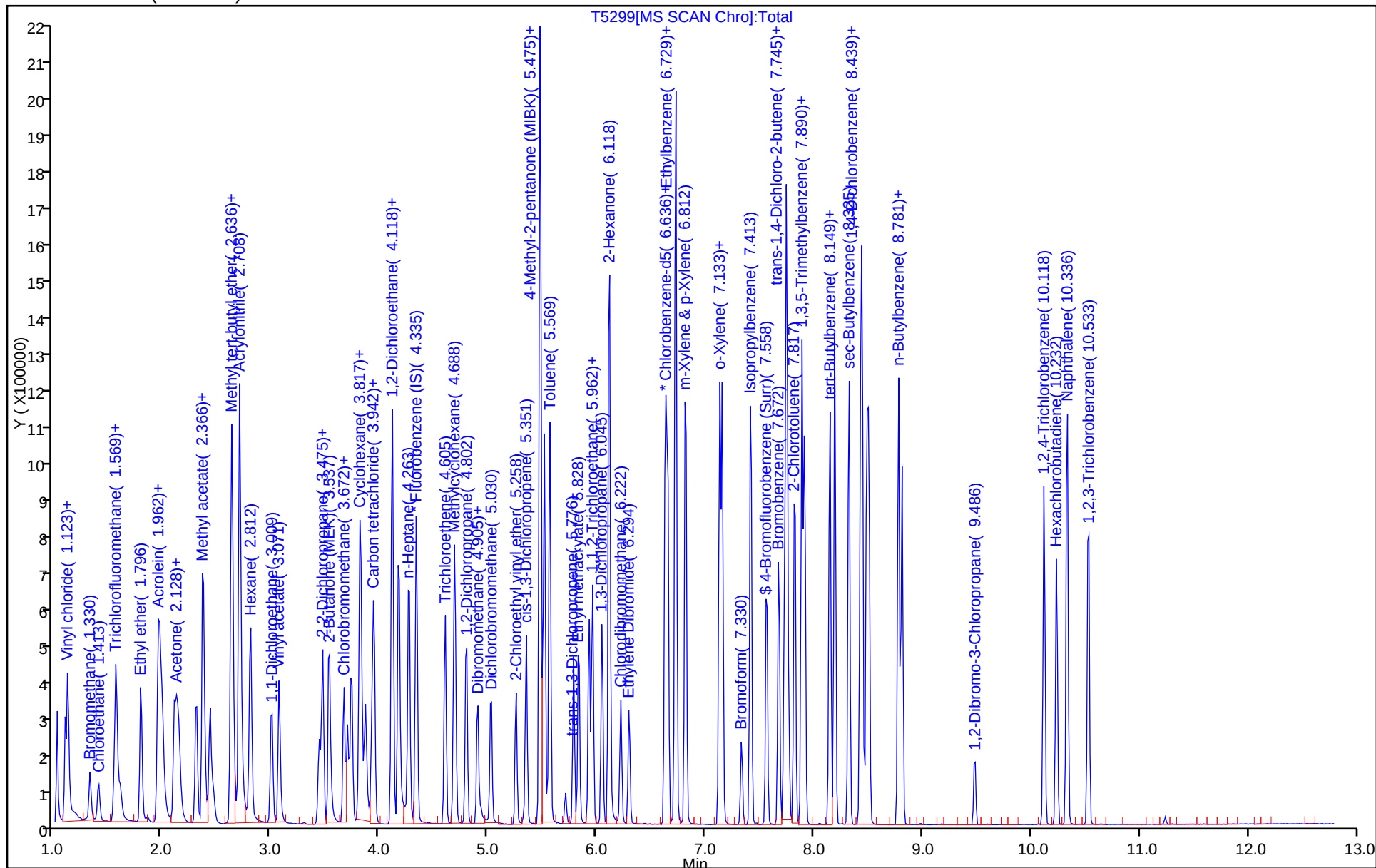
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Instrument ID: HP5975T Start Date: 08/25/2014 15:43Analysis Batch Number: 199422 End Date: 08/26/2014 00:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-199422/6		08/25/2014 15:43	1	T4565.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/8		08/25/2014 16:30	1	T4567.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/9		08/25/2014 16:54	1	T4568.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/10		08/25/2014 17:18	1	T4569.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/11		08/25/2014 17:43	1	T4570.D	ZB-624 (60) 0.25 (mm)
ICIS 480-199422/12		08/25/2014 18:07	1	T4571.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/13		08/25/2014 18:31	1	T4572.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/14		08/25/2014 18:54	1	T4573.D	ZB-624 (60) 0.25 (mm)
MDLV 480-199422/16		08/25/2014 19:42	1		ZB-624 (60) 0.25 (mm)
IC 480-199422/18		08/25/2014 20:29	1	T4577.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/19		08/25/2014 20:53	1	T4578.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/20		08/25/2014 21:17	1	T4579.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/21		08/25/2014 21:41	1	T4580.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/22		08/25/2014 22:05	1	T4581.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/23		08/25/2014 22:29	1	T4582.D	ZB-624 (60) 0.25 (mm)
IC 480-199422/24		08/25/2014 22:53	1	T4583.D	ZB-624 (60) 0.25 (mm)
MDLV 480-199422/26		08/25/2014 23:41	1		ZB-624 (60) 0.25 (mm)
ICV 480-199422/27		08/26/2014 00:05	1		ZB-624 (60) 0.25 (mm)
ICV 480-199422/28		08/26/2014 00:29	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Instrument ID: HP5975T Start Date: 09/11/2014 09:57Analysis Batch Number: 201883 End Date: 09/11/2014 22:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-201883/1		09/11/2014 09:57	1	T5268.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-201883/2		09/11/2014 10:29	1	T5269.D	ZB-624 (60) 0.25 (mm)
CCV 480-201883/3		09/11/2014 10:53	1		ZB-624 (60) 0.25 (mm)
LCS 480-201883/4		09/11/2014 12:30	1	T5271.D	ZB-624 (60) 0.25 (mm)
MDLV 480-201883/5		09/11/2014 12:54	1		ZB-624 (60) 0.25 (mm)
MB 480-201883/6		09/11/2014 13:18	1	T5273.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 13:49	1000		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 14:13	400		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 14:37	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 15:01	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 15:24	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 15:48	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 16:12	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 16:36	200		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 16:59	80		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 17:23	200		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 17:47	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 18:11	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 18:34	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 18:58	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 19:22	4		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 19:46	200		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 20:10	1		ZB-624 (60) 0.25 (mm)
480-66431-1	ERT-4I-82820141	09/11/2014 20:33	100	T5291.D	ZB-624 (60) 0.25 (mm)
480-66431-2	ERT-4I-82820142	09/11/2014 20:57	50	T5292.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 21:21	20		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 21:45	50		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/11/2014 22:09	50		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-66431-1

SDG No.: _____

Instrument ID: HP5975T Start Date: 09/11/2014 22:45Analysis Batch Number: 202028 End Date: 09/12/2014 10:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-202028/1		09/11/2014 22:45	1	T5296.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-202028/2		09/11/2014 23:09	1	T5297.D	ZB-624 (60) 0.25 (mm)
CCV 480-202028/3		09/11/2014 23:33	1		ZB-624 (60) 0.25 (mm)
LCS 480-202028/4		09/11/2014 23:57	1	T5299.D	ZB-624 (60) 0.25 (mm)
MDLV 480-202028/5		09/12/2014 00:21	1		ZB-624 (60) 0.25 (mm)
MB 480-202028/6		09/12/2014 00:45	1	T5301.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 01:48	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 02:12	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 02:36	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 02:59	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 03:23	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 03:47	50		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 04:11	20		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 04:35	25		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 04:59	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 05:23	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 05:47	5		ZB-624 (60) 0.25 (mm)
480-66431-1 RA	ERT-4I-82820141 RA	09/12/2014 06:11	80	T5313.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 06:35	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 06:59	50		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 07:23	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 07:47	20		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 08:11	5		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 08:34	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 08:58	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 09:22	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 09:46	25		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/12/2014 10:09	25		ZB-624 (60) 0.25 (mm)

GC/MS VOA Worksheet

Batch Number: 480-201883

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Sep 11 2014 9:57AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00035	3MTP_WRK_00038
BFB~480-201883/1		8260C			1 uL	1 uL	HP5975T		
CCVIS~480-201883/2		8260C			5 mL	5 mL	HP5975T		
CCV~480-201883/3		8260C			5 mL	5 mL	HP5975T	12.5 uL	12.5 uL
LCS~480-201883/4		8260C			5 mL	5 mL	HP5975T		
MDLV~480-201883/5					5 mL	5 mL	HP5975T		
MB~480-201883/6		8260C			5 mL	5 mL	HP5975T		
480-66389-C-1	344055MW05B04114X X	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66389-C-2	344055MW05B06114X X	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66391-C-1	344055MW00801214X X	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66391-C-2	344055MW00801214X D	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66391-C-3	344055GP00301514X X	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66391-C-5	344055MW01001314X X	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66391-C-6	344055MW00902314X X	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66391-C-7	344055GP02A01514X X	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-A-1	SUMP	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-A-2	S-2	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-A-3	S-4	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-A-4	S-7	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-A-5	S-8	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-A-6	S-9	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-A-7	MW-3	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-A-8	CHA-1	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-A-9	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66431-B-1	ERT-4I-82820141	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66431-B-2	ERT-4I-82820142	8260C	T	<2 SU	5 mL	5 mL	HP5975T		

GC/MS VOA Worksheet

Batch Number: 480-201883

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Sep 11 2014 9:57AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00019	ADD CORP mix_00013	BFB_WRK_00036	GAS CORP mix_00045	T_8260_IS_00085	T_8260_Surr_00081
BFB~480-201883/1		8260C				1 uL			
CCVIS~480-201883/ 2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-201883/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-201883/4		8260C		12.5 uL			12.5 uL	1 uL	1 uL
MDLV~480-201883/ 5				1 uL			1 uL	1 uL	1 uL
MB~480-201883/6		8260C						1 uL	1 uL
480-66389-C-1	344055MW05B04114X X	8260C	T					1 uL	1 uL
480-66389-C-2	344055MW05B06114X X	8260C	T					1 uL	1 uL
480-66391-C-1	344055MW00801214X X	8260C	T					1 uL	1 uL
480-66391-C-2	344055MW00801214X D	8260C	T					1 uL	1 uL
480-66391-C-3	344055GP00301514X X	8260C	T					1 uL	1 uL
480-66391-C-5	344055MW01001314X X	8260C	T					1 uL	1 uL
480-66391-C-6	344055MW00902314X X	8260C	T					1 uL	1 uL
480-66391-C-7	344055GP02A01514X X	8260C	T					1 uL	1 uL
480-66413-A-1	SUMP	8260C	T					1 uL	1 uL
480-66413-A-2	S-2	8260C	T					1 uL	1 uL
480-66413-A-3	S-4	8260C	T					1 uL	1 uL
480-66413-A-4	S-7	8260C	T					1 uL	1 uL
480-66413-A-5	S-8	8260C	T					1 uL	1 uL
480-66413-A-6	S-9	8260C	T					1 uL	1 uL
480-66413-A-7	MW-3	8260C	T					1 uL	1 uL
480-66413-A-8	CHA-1	8260C	T					1 uL	1 uL
480-66413-A-9	TRIP BLANK	8260C	T					1 uL	1 uL
480-66431-B-1	ERT-4I-82820141	8260C	T					1 uL	1 uL
480-66431-B-2	ERT-4I-82820142	8260C	T					1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-201883

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Sep 11 2014 9:57AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00035	3MTP_WRK_00038
480-66431-B-2~MS		8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66431-B-2~MS D		8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-64364-C-2	MW-1S				5 mL	5 mL	HP5975T		

GC/MS VOA Worksheet

Batch Number: 480-201883

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Sep 11 2014 9:57AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00019	ADD CORP mix_00013	BFB_WRK_00036	GAS CORP mix_00045	T_8260_IS_00085	T_8260_Surr_00081
480-66431-B-2~MS		8260C	T	12.5 uL			12.5 uL	1 uL	1 uL
480-66431-B-2~MS D		8260C	T	12.5 uL			12.5 uL	1 uL	1 uL
480-64364-C-2	MW-1S							1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-202028

Method: 8260C

Analyst: Boldt, Erik D

Date Open: Sep 11 2014 10:45PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00035	3MTP_WRK_00038
BFB~480-202028/1		8260C			1 uL	1 uL	HP5975T		
CCVIS~480-202028/2		8260C			5 mL	5 mL	HP5975T		
CCV~480-202028/3		8260C			5 mL	5 mL	HP5975T	12.5 uL	12.5 uL
LCS~480-202028/4		8260C			5 mL	5 mL	HP5975T		
MDLV~480-202028/5					5 mL	5 mL	HP5975T		
MB~480-202028/6		8260C			5 mL	5 mL	HP5975T		
480-66391-D-1	344055MW00801214X	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-B-1	SUMP	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-B-2	S-2	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-B-6	S-9	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-B-8	CHA-1	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66431-C-1	ERT-4I-82820141	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66496-Y-1	Cell #1	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66496-Y-2	Pump Station #2	8260C	T	7 SU	5 mL	5 mL	HP5975T		
480-66496-A-3	Trip Blank	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66498-O-1	SW-2A	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66498-O-2	SW-5	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66498-O-3	SW-1	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66498-A-4	Trip Blank	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66903-E-2	MBR	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
	Water-04-09082014								
480-66970-K-1	LCS01	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66974-I-1	Effluent	8260C	T	7 SU	5 mL	5 mL	HP5975T		
480-66974-A-2	TB	8260C	T	7 SU	5 mL	5 mL	HP5975T		
480-67108-F-1	MHOL1	8260C	T	7 SU	5 mL	5 mL	HP5975T		
480-67109-X-1	NEVINLSMITHA802W	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
	ATER09102014								

GC/MS VOA Worksheet

Batch Number: 480-202028

Method: 8260C

Analyst: Boldt, Erik D

Date Open: Sep 11 2014 10:45PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00019	ADD CORP mix_00013	BFB_WRK_00036	GAS CORP mix_00045	T_8260_IS_00085	T_8260_Surr_00081
BFB~480-202028/1		8260C				1 uL			
CCVIS~480-202028/ 2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-202028/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-202028/4		8260C		12.5 uL			12.5 uL	1 uL	1 uL
MDLV~480-202028/ 5				1 uL			1 uL	1 uL	1 uL
MB~480-202028/6		8260C						1 uL	1 uL
480-66391-D-1	344055MW00801214X	8260C	T					1 uL	1 uL
480-66413-B-1	SUMP	8260C	T					1 uL	1 uL
480-66413-B-2	S-2	8260C	T					1 uL	1 uL
480-66413-B-6	S-9	8260C	T					1 uL	1 uL
480-66413-B-8	CHA-1	8260C	T					1 uL	1 uL
480-66431-C-1	ERT-4I-82820141	8260C	T					1 uL	1 uL
480-66496-Y-1	Cell #1	8260C	T					1 uL	1 uL
480-66496-Y-2	Pump Station #2	8260C	T					1 uL	1 uL
480-66496-A-3	Trip Blank	8260C	T					1 uL	1 uL
480-66498-O-1	SW-2A	8260C	T					1 uL	1 uL
480-66498-O-2	SW-5	8260C	T					1 uL	1 uL
480-66498-O-3	SW-1	8260C	T					1 uL	1 uL
480-66498-A-4	Trip Blank	8260C	T					1 uL	1 uL
480-66903-E-2	MBR	8260C	T					1 uL	1 uL
	Water-04-09082014								
480-66970-K-1	LCS01	8260C	T					1 uL	1 uL
480-66974-I-1	Effluent	8260C	T					1 uL	1 uL
480-66974-A-2	TB	8260C	T					1 uL	1 uL
480-67108-F-1	MHOL1	8260C	T					1 uL	1 uL
480-67109-X-1	NEVINLSMITHA802W ATER09102014	8260C	T					1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-202028
Method: 8260C
Analyst: Boldt, Erik D

Date Open: Sep 11 2014 10:45PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00035	3MTP_WRK_00038
480-67109-A-2	TB	8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-B-1~MS		8260C	T	<2 SU	5 mL	5 mL	HP5975T		
480-66413-B-1~MS		8260C	T	<2 SU	5 mL	5 mL	HP5975T		
D									

GC/MS VOA Worksheet

Batch Number: 480-202028

Method: 8260C

Analyst: Boldt, Erik D

Date Open: Sep 11 2014 10:45PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00019	ADD CORP mix_00013	BFB_WRK_00036	GAS CORP mix_00045	T_8260_IS_00085	T_8260_Surr_00081
480-67109-A-2	TB	8260C	T					1 uL	1 uL
480-66413-B-1~MS		8260C	T	12.5 uL			12.5 uL	1 uL	1 uL
480-66413-B-1~MS D		8260C	T	12.5 uL			12.5 uL	1 uL	1 uL

Shipping and Receiving Documents

TestAmerica

Temperature on Receipt _____

THE LEADER IN ENVIRONMENTAL TESTING

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client	NYS DEC	Project Manager	Parson Long	Date	8/29/2014	Chain of Custody Number	216162
Address	125 Broadway	Telephone Number (Area Code)/Fax Number	578 402-9813	Lab Number		Page	1 of 1

City		State	Zip Code	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)				
Albany		NY	12233	James Dwyer						
Project Name and Location (State)				Carrier/Waybill Number						

**Special Instructions/
Conditions of Receipt**

7040084	Matrix	Conformal Preservatives

[illegible][illegible][illegible]

7411 4/10/18 7 4102828-54-1413

[illegible][illegible]

[illegible]

29

4R0-66431 Chain of Custody

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

[illegible]

11/11/11

$\frac{1}{\sqrt{2}}$

[illegible]

☐ Non-Hazard	☐ Skin Irritant	☐ Poison B	☐ Unknown	☐ Return To Client	☒ Disposal By Lab	☐ Archive For _____ Months	☐ Archive For _____ Months
<i>(A fee may be assessed if samples are retained longer than 1 month)</i>							

	NOT PRESENT	PENDING	CURRENT	FUTURE
QC Requirements (Specify)				
Turn Around Time Required				

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

[illegible][illegible][illegible]

53. Relinquished By	Date	Time
3. Received By	Date	Time

[illegible][illegible]

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

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-66431-1

Login Number: 66431

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

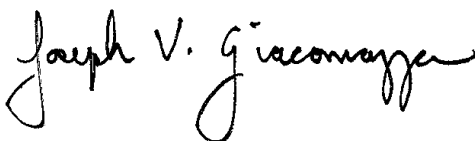
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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	
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	
Sampling Company provided.	True	nysdec
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-64658-1

Job Description: NYSDEC-Standby VESTAL

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, NY 12065
Attention: Jeremy Wyckoff



Approved for release.
Joe V Giacomazza
Project Management Assistant II
8/13/2014 4:14 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
08/13/2014

cc: Accounts Payable

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TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive, Amherst, NY 14228-2298

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Job Narrative
480-64658-1

Receipt

The samples were received on 7/31/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch196693 . recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-196693/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-64658-1	WELL 1-3	Water	07/30/2014 1400	07/31/2014 0900
480-64658-2	WELL 1-2	Water	07/30/2014 1410	07/31/2014 0900
480-64658-3	TRIP BLANK	Water	07/30/2014 0000	07/31/2014 0900

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL BUF	SW846 8260C	
Purge and Trap	TAL BUF		SW846 5030C

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Method	Analyst	Analyst ID
SW846 8260C	Goliszek, Gregory T	GTG

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-64658-1

Client Matrix: Water

Date Sampled: 07/30/2014 1400

Date Received: 07/31/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-196693	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G32988.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/07/2014 1843			Final Weight/Volume:	5 mL
Prep Date:	08/07/2014 1843				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
2-Hexanone	5.0	U	1.2	5.0
2-Butanone (MEK)	10	U	1.3	10
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Ethylbenzene	1.0	U	0.74	1.0
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0
m,p-Xylene	2.0	U	0.66	2.0
o-Xylene	1.0	U	0.76	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-64658-1

Client Matrix: Water

Date Sampled: 07/30/2014 1400

Date Received: 07/31/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Prep Method: 5030C

Dilution: 1.0

Analysis Date: 08/07/2014 1843

Prep Date: 08/07/2014 1843

Analysis Batch: 480-196693

Prep Batch: N/A

Instrument ID: HP5973G

Lab File ID: G32988.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Client Sample ID: WELL 1-2

Lab Sample ID: 480-64658-2

Date Sampled: 07/30/2014 1410

Client Matrix: Water

Date Received: 07/31/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-196693	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G32989.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/07/2014 1905			Final Weight/Volume:	5 mL
Prep Date:	08/07/2014 1905				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
2-Hexanone	5.0	U	1.2	5.0
2-Butanone (MEK)	10	U	1.3	10
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Ethylbenzene	1.0	U	0.74	1.0
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0
m,p-Xylene	2.0	U	0.66	2.0
o-Xylene	1.0	U	0.76	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
Toluene-d8 (Surr)	97		71 - 126
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Client Sample ID: WELL 1-2

Lab Sample ID: 480-64658-2

Client Matrix: Water

Date Sampled: 07/30/2014 1410

Date Received: 07/31/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Prep Method: 5030C

Dilution: 1.0

Analysis Date: 08/07/2014 1905

Prep Date: 08/07/2014 1905

Analysis Batch: 480-196693

Prep Batch: N/A

Instrument ID: HP5973G

Lab File ID: G32989.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-64658-3

Date Sampled: 07/30/2014 0000

Client Matrix: Water

Date Received: 07/31/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-196693	Instrument ID:	HP5973G
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	G32990.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/07/2014 1927			Final Weight/Volume:	5 mL
Prep Date:	08/07/2014 1927				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
2-Hexanone	5.0	U	1.2	5.0
2-Butanone (MEK)	10	U	1.3	10
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Ethylbenzene	1.0	U	0.74	1.0
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0
m,p-Xylene	2.0	U	0.66	2.0
o-Xylene	1.0	U	0.76	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	96		73 - 120
Dibromofluoromethane (Surr)	97		60 - 140

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-64658-3

Client Matrix: Water

Date Sampled: 07/30/2014 0000

Date Received: 07/31/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Prep Method: 5030C

Dilution: 1.0

Analysis Date: 08/07/2014 1927

Prep Date: 08/07/2014 1927

Analysis Batch: 480-196693

Prep Batch: N/A

Instrument ID: HP5973G

Lab File ID: G32990.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Surrogate Recovery Report**8260C Volatile Organic Compounds by GC/MS****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-64658-1	WELL 1-3	100	104	96	97
480-64658-2	WELL 1-2	100	105	97	97
480-64658-3	TRIP BLANK	97	102	95	96
MB 480-196693/8		101	105	98	99
LCS 480-196693/5		99	101	98	100

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Method Blank - Batch: 480-196693

Method: 8260C Preparation: 5030C

Lab Sample ID: MB 480-196693/8
Client Matrix: Water
Dilution: 1.0
Analysis Date: 08/07/2014 1248
Prep Date: 08/07/2014 1248
Leach Date: N/A

Analysis Batch: 480-196693
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973G
Lab File ID: G32973.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	1.0	U	0.38	1.0
1,1-Dichloroethene	1.0	U	0.29	1.0
1,2-Dibromoethane	1.0	U	0.73	1.0
1,2-Dichloroethane	1.0	U	0.21	1.0
1,2-Dichloropropane	1.0	U	0.72	1.0
1,2,4-Trimethylbenzene	1.0	U	0.75	1.0
2-Hexanone	5.0	U	1.2	5.0
2-Butanone (MEK)	10	U	1.3	10
4-Methyl-2-pentanone (MIBK)	5.0	U	2.1	5.0
Acetone	10	U	3.0	10
Benzene	1.0	U	0.41	1.0
1,3,5-Trimethylbenzene	1.0	U	0.77	1.0
Bromodichloromethane	1.0	U	0.39	1.0
Bromoform	1.0	U	0.26	1.0
Bromomethane	1.0	U	0.69	1.0
Carbon disulfide	1.0	U	0.19	1.0
Carbon tetrachloride	1.0	U	0.27	1.0
Chlorobenzene	1.0	U	0.75	1.0
Dibromochloromethane	1.0	U	0.32	1.0
Chloroethane	1.0	U	0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	1.0	U	0.81	1.0
cis-1,3-Dichloropropene	1.0	U	0.36	1.0
Ethylbenzene	1.0	U	0.74	1.0
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.44	1.0
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0
trans-1,2-Dichloroethene	1.0	U	0.90	1.0
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	1.0	U	0.46	1.0
Vinyl chloride	1.0	U	0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0
m,p-Xylene	2.0	U	0.66	2.0
o-Xylene	1.0	U	0.76	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105	66 - 137
Toluene-d8 (Surr)	98	71 - 126
4-Bromofluorobenzene (Surr)	99	73 - 120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	101	60 - 140

Lab Control Sample - Batch: 480-196693

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-196693/5	Analysis Batch:	480-196693	Instrument ID:	HP5973G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G32970.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/07/2014 1140	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	08/07/2014 1140				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	24.0	96	71 - 129	
1,1-Dichloroethene	25.0	24.3	97	58 - 121	
1,2-Dichloroethane	25.0	23.8	95	75 - 127	
1,2,4-Trimethylbenzene	25.0	25.1	101	76 - 121	
Benzene	25.0	24.3	97	71 - 124	
Chlorobenzene	25.0	24.2	97	72 - 120	
cis-1,2-Dichloroethene	25.0	24.2	97	74 - 124	
Ethylbenzene	25.0	24.5	98	77 - 123	
Methyl tert-butyl ether	25.0	24.7	99	64 - 127	
Tetrachloroethene	25.0	24.4	98	74 - 122	
Toluene	25.0	23.8	95	80 - 122	
trans-1,2-Dichloroethene	25.0	23.9	96	73 - 127	
Trichloroethene	25.0	23.8	95	74 - 123	
m,p-Xylene	25.0	23.9	96	76 - 122	
o-Xylene	25.0	23.9	95	76 - 122	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	66 - 137
Toluene-d8 (Surr)	98	71 - 126
4-Bromofluorobenzene (Surr)	100	73 - 120
Dibromofluoromethane (Surr)	99	60 - 140

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-196693					
LCS 480-196693/5	Lab Control Sample	T	Water	8260C	
MB 480-196693/8	Method Blank	T	Water	8260C	
480-64658-1	WELL 1-3	T	Water	8260C	
480-64658-2	WELL 1-2	T	Water	8260C	
480-64658-3	TRIP BLANK	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Laboratory Chronicle

Lab ID: 480-64658-1

Client ID: WELL 1-3

Sample Date/Time: 07/30/2014 14:00

Received Date/Time: 07/31/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-64658-A-1		480-196693		08/07/2014 18:43	1	TAL BUF	GTG
A:8260C	480-64658-A-1		480-196693		08/07/2014 18:43	1	TAL BUF	GTG

Lab ID: 480-64658-2

Client ID: WELL 1-2

Sample Date/Time: 07/30/2014 14:10

Received Date/Time: 07/31/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-64658-A-2		480-196693		08/07/2014 19:05	1	TAL BUF	GTG
A:8260C	480-64658-A-2		480-196693		08/07/2014 19:05	1	TAL BUF	GTG

Lab ID: 480-64658-3

Client ID: TRIP BLANK

Sample Date/Time: 07/30/2014 00:00

Received Date/Time: 07/31/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-64658-A-3		480-196693		08/07/2014 19:27	1	TAL BUF	GTG
A:8260C	480-64658-A-3		480-196693		08/07/2014 19:27	1	TAL BUF	GTG

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:5030C	MB 480-196693/8		480-196693		08/07/2014 12:48	1	TAL BUF	GTG
A:8260C	MB 480-196693/8		480-196693		08/07/2014 12:48	1	TAL BUF	GTG

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:5030C	LCS 480-196693/5		480-196693		08/07/2014 11:40	1	TAL BUF	GTG
A:8260C	LCS 480-196693/5		480-196693		08/07/2014 11:40	1	TAL BUF	GTG

Lab References:

TAL BUF = TestAmerica Buffalo

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
WELL 1-3	480-64658-1	100	104	96	97
WELL 1-2	480-64658-2	100	105	97	97
TRIP BLANK	480-64658-3	97	102	95	96
	MB 480-196693/8	101	105	98	99
	LCS 480-196693/5	99	101	98	100

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: G32970.D
 Lab ID: LCS 480-196693/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	24.0	96	71-129	
1,1-Dichloroethene	25.0	24.3	97	58-121	
1,2-Dichloroethane	25.0	23.8	95	75-127	
1,2,4-Trimethylbenzene	25.0	25.1	101	76-121	
Benzene	25.0	24.3	97	71-124	
Chlorobenzene	25.0	24.2	97	72-120	
cis-1,2-Dichloroethene	25.0	24.2	97	74-124	
Ethylbenzene	25.0	24.5	98	77-123	
Methyl tert-butyl ether	25.0	24.7	99	64-127	
Tetrachloroethene	25.0	24.4	98	74-122	
Toluene	25.0	23.8	95	80-122	
trans-1,2-Dichloroethene	25.0	23.9	96	73-127	
Trichloroethene	25.0	23.8	95	74-123	
m,p-Xylene	25.0	23.9	96	76-122	
o-Xylene	25.0	23.9	95	76-122	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
SDG No.: _____
Lab File ID: G32973.D Lab Sample ID: MB 480-196693/8
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973G Date Analyzed: 08/07/2014 12:48
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-196693/5	G32970.D	08/07/2014 11:40
WELL 1-3	480-64658-1	G32988.D	08/07/2014 18:43
WELL 1-2	480-64658-2	G32989.D	08/07/2014 19:05
TRIP BLANK	480-64658-3	G32990.D	08/07/2014 19:27

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

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
 SDG No.: _____
 Lab File ID: _____ BFB Injection Date: _____
 Instrument ID: _____ BFB Injection Time: _____
 Lab File ID: _____ DFTPP Injection Date: _____
 Instrument ID: _____ DFTPP Injection Time: _____
 Analysis Batch No.: _____

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE

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 480-186834/4	G31249.D	06/10/2014	15:07
	IC 480-186834/5	G31250.D	06/10/2014	15:30
	IC 480-186834/6	G31251.D	06/10/2014	15:53
	IC 480-186834/7	G31252.D	06/10/2014	16:16
	ICIS 480-186834/8	G31253.D	06/10/2014	16:39
	IC 480-186834/9	G31254.D	06/10/2014	17:02
	IC 480-186834/10	G31255.D	06/10/2014	17:24

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

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
 SDG No.: _____
 Lab File ID: G32967.D BFB Injection Date: 08/07/2014
 Instrument ID: HP5973G BFB Injection Time: 10:08
 Analysis Batch No.: 196693

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.9
75	30.0 - 60.0 % of mass 95	52.3
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	0.5 (0.8)1
174	50.0 - 120.00 % of mass 95	64.1
175	5.0 - 9.0 % of mass 174	4.9 (7.7)1
176	95.0 - 101.0 % of mass 174	62.5 (97.6)1
177	5.0 - 9.0 % of mass 176	4.3 (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
	CCVIS 480-196693/3	G32968.D	08/07/2014	10:35
	LCS 480-196693/5	G32970.D	08/07/2014	11:40
	MB 480-196693/8	G32973.D	08/07/2014	12:48
WELL 1-3	480-64658-1	G32988.D	08/07/2014	18:43
WELL 1-2	480-64658-2	G32989.D	08/07/2014	19:05
TRIP BLANK	480-64658-3	G32990.D	08/07/2014	19:27

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

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
SDG No.: _____
Sample No.: ICIS 480-186834/8 Date Analyzed: 06/10/2014 16:39
Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm)
Lab File ID (Standard): G31253.D Heated Purge: (Y/N) N
Calibration ID: 18779

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	108741	5.60	223878	8.60	183642	10.97	
UPPER LIMIT	217482	6.10	447756	9.10	367284	11.47	
LOWER LIMIT	54371	5.10	111939	8.10	91821	10.47	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-196693/3		84809	5.60	178508	8.60	146070	10.97

FB = Fluorobenzene (IS)

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
 SDG No.: _____
 Sample No.: CCVIS 480-196693/3 Date Analyzed: 08/07/2014 10:35
 Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): G32968.D Heated Purge: (Y/N) N
 Calibration ID: 18781

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		84809	5.60	178508	8.60	146070	10.97
UPPER LIMIT		169618	6.10	357016	9.10	292140	11.47
LOWER LIMIT		42405	5.10	89254	8.10	73035	10.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-196693/5		87051	5.60	182276	8.60	147031	10.97
MB 480-196693/8		80405	5.60	169351	8.60	141617	10.97
480-64658-1	WELL 1-3	80258	5.60	168268	8.60	134267	10.97
480-64658-2	WELL 1-2	78164	5.60	166188	8.60	135904	10.97
480-64658-3	TRIP BLANK	78438	5.60	167169	8.60	135217	10.97

FB = Fluorobenzene (IS)

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1

SDG No.: _____

Client Sample ID: WELL 1-3 Lab Sample ID: 480-64658-1

Matrix: Water Lab File ID: G32988.D

Analysis Method: 8260C Date Collected: 07/30/2014 14:00

Sample wt/vol: 5(mL) Date Analyzed: 08/07/2014 18:43

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 196693 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
591-78-6	2-Hexanone	5.0	U	5.0	1.2
78-93-3	2-Butanone (MEK)	10	U	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
 SDG No.: _____
 Client Sample ID: WELL 1-3 Lab Sample ID: 480-64658-1
 Matrix: Water Lab File ID: G32988.D
 Analysis Method: 8260C Date Collected: 07/30/2014 14:00
 Sample wt/vol: 5(mL) Date Analyzed: 08/07/2014 18:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 196693 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
95-47-6	o-Xylene	1.0	U	1.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32988.D
 Lims ID: 480-64658-A-1 Lab Sample ID: 480-64658-1
 Client ID: WELL 1-3
 Sample Type: Client
 Inject. Date: 07-Aug-2014 18:43:30 ALS Bottle#: 53 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-64658-A-1
 Misc. Info.: 480-0034422-026480-0034422-026
 Operator ID: CN Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Aug-2014 18:51:41 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: goliszekg

Date: 08-Aug-2014 18:51:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.602	5.596	0.006	98	80258	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	89	168268	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.967	10.967	0.000	98	134267	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.005	5.005	0.001	92	83983	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.316	5.315	0.001	0	64166	26.0	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	364593	23.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	82	99612	24.3	
12 Chloromethane	50		1.578				ND	
13 Vinyl chloride	62		1.694				ND	
14 Bromomethane	94		1.993				ND	
15 Chloroethane	64		2.133				ND	
20 1,1-Dichloroethene	96		2.871				ND	
22 Acetone	43		2.938				ND	
24 Carbon disulfide	76		3.078				ND	
29 Methylene Chloride	84		3.389				ND	
31 Methyl tert-butyl ether	73		3.566				ND	
32 trans-1,2-Dichloroethene	96		3.578				ND	
36 1,1-Dichloroethane	63		3.987				ND	
43 cis-1,2-Dichloroethene	96		4.541				ND	
44 2-Butanone (MEK)	43		4.566				ND	
50 Chloroform	85		4.846				ND	
51 1,1,1-Trichloroethane	97		4.980				ND	
53 Carbon tetrachloride	117		5.127				ND	
56 Benzene	78		5.334				ND	
57 1,2-Dichloroethane	62		5.383				ND	
61 Trichloroethene	95		5.943				ND	
63 1,2-Dichloropropane	63		6.169				ND	
67 Dichlorobromomethane	83		6.456				ND	
72 cis-1,3-Dichloropropene	75		6.876				ND	
73 4-Methyl-2-pentanone (MIBK	43		7.016				ND	
74 Toluene	92		7.181				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 trans-1,3-Dichloropropene	75		7.437				ND	
79 1,1,2-Trichloroethane	83		7.626				ND	
80 Tetrachloroethene	166		7.717				ND	
82 2-Hexanone	43		7.858				ND	
83 Chlorodibromomethane	129		8.028				ND	
84 Ethylene Dibromide	107		8.138				ND	
86 Chlorobenzene	112		8.626				ND	
89 Ethylbenzene	91		8.723				ND	
90 m-Xylene & p-Xylene	106		8.845				ND	
91 o-Xylene	106		9.272				ND	
92 Styrene	104		9.296				ND	
93 Bromoform	173		9.534				ND	
98 1,1,2,2-Tetrachloroethane	83		10.022				ND	
104 1,3,5-Trimethylbenzene	105		10.247				ND	
107 1,2,4-Trimethylbenzene	105		10.619				ND	
S 124 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

G_8260_Surr_00074

Amount Added: 1.00

Units: uL

Run Reagent

G_8260_IS_00058

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32988.D

Injection Date: 07-Aug-2014 18:43:30

Instrument ID: HP5973G

Operator ID: CN

Lims ID: 480-64658-A-1

Lab Sample ID: 480-64658-1

Worklist Smp#: 26

Client ID: WELL 1-3

Purge Vol: 5.000 mL

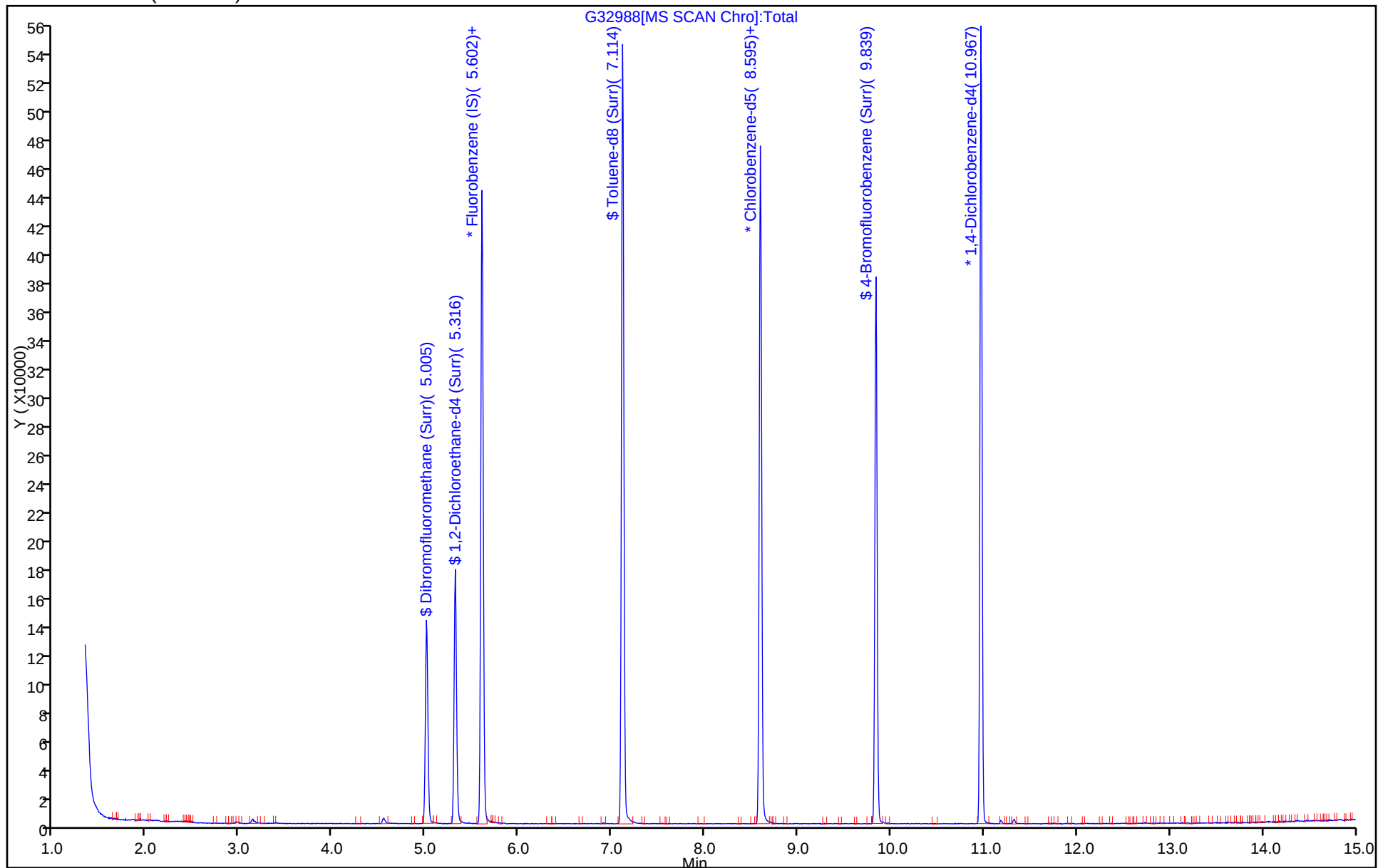
Dil. Factor: 1.0000

ALS Bottle#: 53

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1

SDG No.: _____

Client Sample ID: WELL 1-2 Lab Sample ID: 480-64658-2

Matrix: Water Lab File ID: G32989.D

Analysis Method: 8260C Date Collected: 07/30/2014 14:10

Sample wt/vol: 5(mL) Date Analyzed: 08/07/2014 19:05

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 196693 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
591-78-6	2-Hexanone	5.0	U	5.0	1.2
78-93-3	2-Butanone (MEK)	10	U	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
 SDG No.: _____
 Client Sample ID: WELL 1-2 Lab Sample ID: 480-64658-2
 Matrix: Water Lab File ID: G32989.D
 Analysis Method: 8260C Date Collected: 07/30/2014 14:10
 Sample wt/vol: 5(mL) Date Analyzed: 08/07/2014 19:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 196693 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
95-47-6	o-Xylene	1.0	U	1.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
2037-26-5	Toluene-d8 (Surr)	97		71-126
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32989.D
 Lims ID: 480-64658-A-2 Lab Sample ID: 480-64658-2
 Client ID: WELL 1-2
 Sample Type: Client
 Inject. Date: 07-Aug-2014 19:05:30 ALS Bottle#: 54 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-64658-A-2
 Misc. Info.: 480-0034422-027480-0034422-027
 Operator ID: CN Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Aug-2014 18:51:49 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: goliszekg

Date: 08-Aug-2014 18:51:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.602	5.596	0.006	98	78164	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	88	166188	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.967	10.967	0.000	98	135904	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.005	5.005	0.001	92	81701	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.316	5.315	0.001	0	63441	26.4	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	365721	24.3	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	83	98706	24.3	
12 Chloromethane	50		1.578				ND	
13 Vinyl chloride	62		1.694				ND	
14 Bromomethane	94		1.993				ND	
15 Chloroethane	64		2.133				ND	
20 1,1-Dichloroethene	96		2.871				ND	
22 Acetone	43		2.938				ND	
24 Carbon disulfide	76		3.078				ND	
29 Methylene Chloride	84		3.389				ND	
31 Methyl tert-butyl ether	73		3.566				ND	
32 trans-1,2-Dichloroethene	96		3.578				ND	
36 1,1-Dichloroethane	63		3.987				ND	
43 cis-1,2-Dichloroethene	96		4.541				ND	
44 2-Butanone (MEK)	43		4.566				ND	
50 Chloroform	85		4.846				ND	
51 1,1,1-Trichloroethane	97		4.980				ND	
53 Carbon tetrachloride	117		5.127				ND	
56 Benzene	78		5.334				ND	
57 1,2-Dichloroethane	62		5.383				ND	
61 Trichloroethene	95		5.943				ND	
63 1,2-Dichloropropane	63		6.169				ND	
67 Dichlorobromomethane	83		6.456				ND	
72 cis-1,3-Dichloropropene	75		6.876				ND	
73 4-Methyl-2-pentanone (MIBK	43		7.016				ND	
74 Toluene	92		7.181				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 trans-1,3-Dichloropropene	75		7.437				ND	
79 1,1,2-Trichloroethane	83		7.626				ND	
80 Tetrachloroethene	166		7.717				ND	
82 2-Hexanone	43		7.858				ND	
83 Chlorodibromomethane	129		8.028				ND	
84 Ethylene Dibromide	107		8.138				ND	
86 Chlorobenzene	112		8.626				ND	
89 Ethylbenzene	91		8.723				ND	
90 m-Xylene & p-Xylene	106		8.845				ND	
91 o-Xylene	106		9.272				ND	
92 Styrene	104		9.296				ND	
93 Bromoform	173		9.534				ND	
98 1,1,2,2-Tetrachloroethane	83		10.022				ND	
104 1,3,5-Trimethylbenzene	105		10.247				ND	
107 1,2,4-Trimethylbenzene	105		10.619				ND	
S 124 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

G_8260_Surr_00074

Amount Added: 1.00

Units: uL

Run Reagent

G_8260_IS_00058

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32989.D

Injection Date: 07-Aug-2014 19:05:30

Instrument ID: HP5973G

Operator ID: CN

Lims ID: 480-64658-A-2

Lab Sample ID: 480-64658-2

Worklist Smp#: 27

Client ID: WELL 1-2

Purge Vol: 5.000 mL

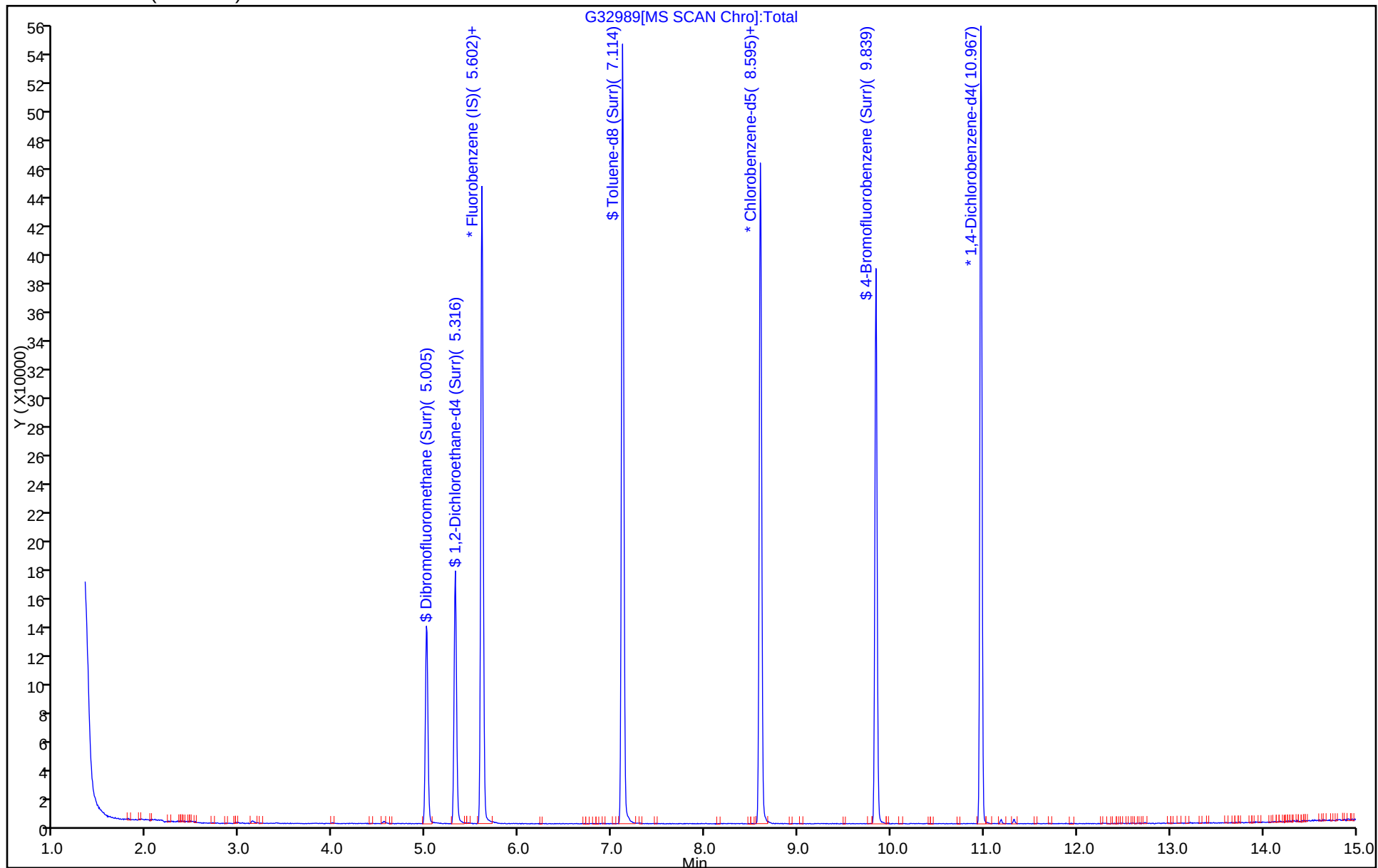
Dil. Factor: 1.0000

ALS Bottle#: 54

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1

SDG No.: _____

Client Sample ID: TRIP BLANK Lab Sample ID: 480-64658-3

Matrix: Water Lab File ID: G32990.D

Analysis Method: 8260C Date Collected: 07/30/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 08/07/2014 19:27

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 196693 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
591-78-6	2-Hexanone	5.0	U	5.0	1.2
78-93-3	2-Butanone (MEK)	10	U	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1

SDG No.: _____

Client Sample ID: TRIP BLANK Lab Sample ID: 480-64658-3

Matrix: Water Lab File ID: G32990.D

Analysis Method: 8260C Date Collected: 07/30/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 08/07/2014 19:27

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

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

Analysis Batch No.: 196693 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
95-47-6	o-Xylene	1.0	U	1.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32990.D
 Lims ID: 480-64658-A-3 Lab Sample ID: 480-64658-3
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 07-Aug-2014 19:27:30 ALS Bottle#: 55 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-64658-A-3
 Misc. Info.: 480-0034422-028480-0034422-028
 Operator ID: CN Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Aug-2014 18:51:55 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: goliszekg

Date: 08-Aug-2014 18:51:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.602	5.596	0.006	98	78438	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	89	167169	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.967	10.967	0.000	98	135217	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.005	5.005	0.001	92	79777	24.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.316	5.315	0.001	0	61722	25.6	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	361293	23.8	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	82	98288	24.1	
12 Chloromethane	50		1.578				ND	
13 Vinyl chloride	62		1.694				ND	
14 Bromomethane	94		1.993				ND	
15 Chloroethane	64		2.133				ND	
20 1,1-Dichloroethene	96		2.871				ND	
22 Acetone	43		2.938				ND	
24 Carbon disulfide	76		3.078				ND	
29 Methylene Chloride	84		3.389				ND	
31 Methyl tert-butyl ether	73		3.566				ND	
32 trans-1,2-Dichloroethene	96		3.578				ND	
36 1,1-Dichloroethane	63		3.987				ND	
43 cis-1,2-Dichloroethene	96		4.541				ND	
44 2-Butanone (MEK)	43		4.566				ND	
50 Chloroform	85		4.846				ND	
51 1,1,1-Trichloroethane	97		4.980				ND	
53 Carbon tetrachloride	117		5.127				ND	
56 Benzene	78		5.334				ND	
57 1,2-Dichloroethane	62		5.383				ND	
61 Trichloroethene	95		5.943				ND	
63 1,2-Dichloropropane	63		6.169				ND	
67 Dichlorobromomethane	83		6.456				ND	
72 cis-1,3-Dichloropropene	75		6.876				ND	
73 4-Methyl-2-pentanone (MIBK	43		7.016				ND	
74 Toluene	92		7.181				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
76 trans-1,3-Dichloropropene	75		7.437				ND	
79 1,1,2-Trichloroethane	83		7.626				ND	
80 Tetrachloroethene	166		7.717				ND	
82 2-Hexanone	43		7.858				ND	
83 Chlorodibromomethane	129		8.028				ND	
84 Ethylene Dibromide	107		8.138				ND	
86 Chlorobenzene	112		8.626				ND	
89 Ethylbenzene	91		8.723				ND	
90 m-Xylene & p-Xylene	106		8.845				ND	
91 o-Xylene	106		9.272				ND	
92 Styrene	104		9.296				ND	
93 Bromoform	173		9.534				ND	
98 1,1,2,2-Tetrachloroethane	83		10.022				ND	
104 1,3,5-Trimethylbenzene	105		10.247				ND	
107 1,2,4-Trimethylbenzene	105		10.619				ND	
S 124 Xylenes, Total	1		30.000				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

G_8260_Surr_00074

Amount Added: 1.00

Units: uL

Run Reagent

G_8260_IS_00058

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32990.D

Injection Date: 07-Aug-2014 19:27:30

Instrument ID: HP5973G

Operator ID: CN

Lims ID: 480-64658-A-3

Lab Sample ID: 480-64658-3

Worklist Smp#: 28

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

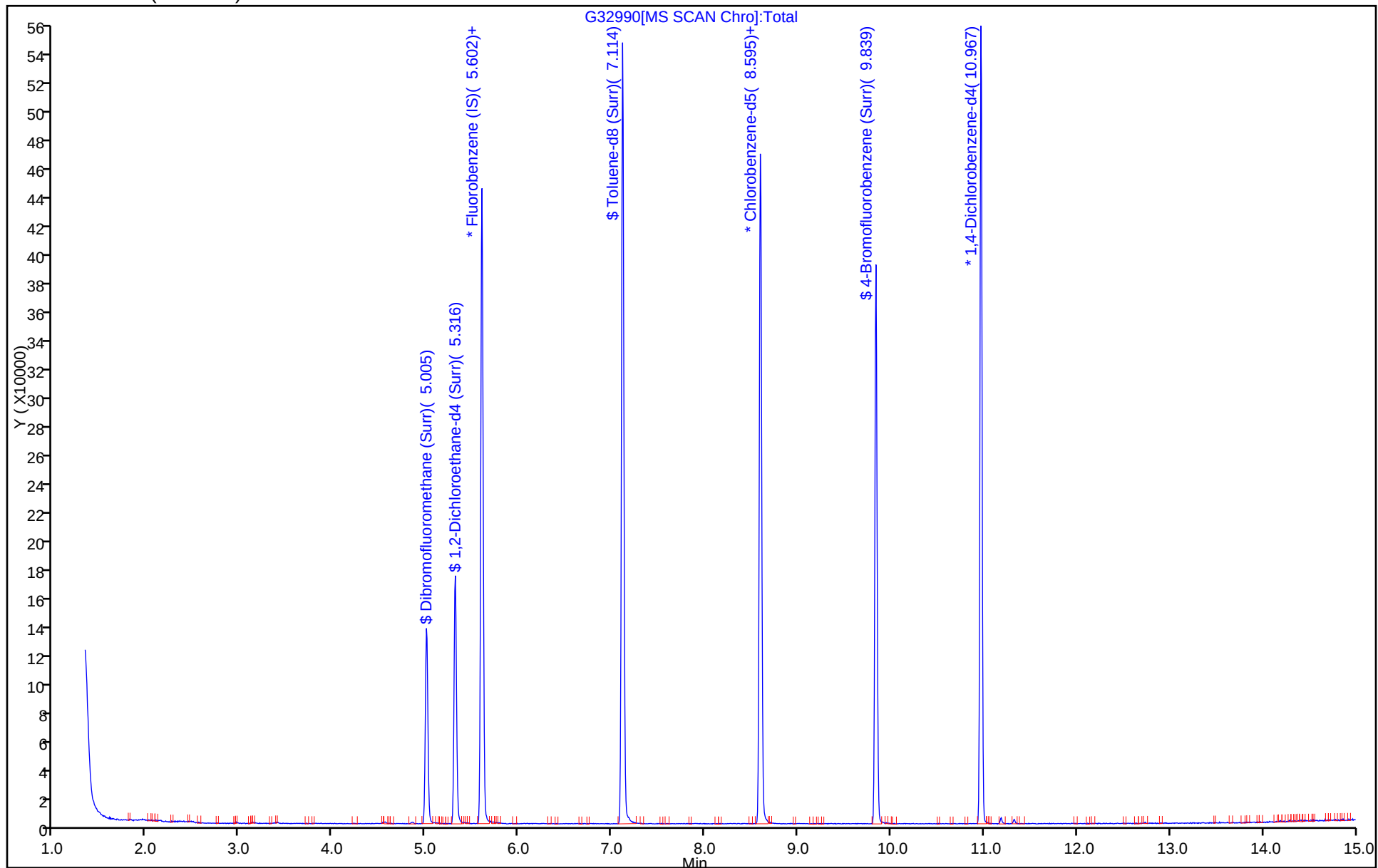
Dil. Factor: 1.0000

ALS Bottle#: 55

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1 Analy Batch No.: 186834

SDG No.: _____

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2014 15:07 Calibration End Date: 06/10/2014 17:24 Calibration ID: 18779

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-186834/4	G31249.D
Level 2	IC 480-186834/5	G31250.D
Level 3	IC 480-186834/6	G31251.D
Level 4	IC 480-186834/7	G31252.D
Level 5	ICIS 480-186834/8	G31253.D
Level 6	IC 480-186834/9	G31254.D
Level 7	IC 480-186834/10	G31255.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								
Dichlorodifluoromethane	++++ 1.8978	1.9300 2.0753	1.9075	2.0292	1.8116	Ave		1.9419			0.1000	4.9		20.0			
Chloromethane	++++ 1.7244	1.6395 1.7921	1.6345	1.7232	1.6633	Ave		1.6962			0.1000	3.6		20.0			
Vinyl chloride	++++ 1.6006	1.5714 1.6700	1.5198	1.6455	1.5577	Ave		1.5942			0.1000	3.5		20.0			
Butadiene	++++ 1.3904	1.4727 1.4909	1.3245	1.4453	1.3342	Ave		1.4096				5.0		20.0			
Bromomethane	++++ 0.4555	0.4588 0.5603	0.4685	0.4398	0.4231	Ave		0.4677			0.1000	10.0		20.0			
Chloroethane	++++ 0.7955	0.9925 0.8037	0.8515	0.8571	0.7958	Ave		0.8493			0.1000	8.9		20.0			
Dichlorofluoromethane	++++ 1.6933	1.4069 1.7624	1.1484	1.3860	1.5200	Ave		1.4862				15.0		20.0			
Trichlorofluoromethane	++++ 1.8146	1.4458 1.9972	1.5321	1.6912	1.6630	Ave		1.6906			0.1000	12.0		20.0			
Ethyl ether	++++ 1.0415	1.1553 1.0528	1.0079	1.0016	1.0392	Ave		1.0497				5.3		20.0			
Acrolein	++++ 0.1520	0.1816 0.1528	0.1583	0.1454	0.1526	Ave		0.1571				8.1		20.0			
1,1-Dichloroethene	++++ 1.4576	1.4840 1.5068	1.4748	1.4488	1.3700	Ave		1.4570			0.1000	3.2		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 1.2546	1.2995 1.3503	1.2713	1.2693	1.1109	Ave		1.2593			0.1000	6.4		20.0			
Acetone	++++ 0.4341	0.5358 0.4236	0.4234	0.4197	0.4391	Ave		0.4460			0.1000	10.0		20.0			
Iodomethane	++++ 1.7063	1.5761 1.6320	1.6925	1.6990	1.7287	Ave		1.6724				3.4		20.0			

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 Buffalo Job No.: 480-64658-1 Analy Batch No.: 186834

SDG No.: _____

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2014 15:07 Calibration End Date: 06/10/2014 17:24 Calibration ID: 18779

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 disulfide	++++ 4.0559	4.4653 4.1780	3.9548	3.8708	3.8295	Ave		4.0591			0.1000	5.8		20.0			
Allyl chloride	++++ 2.0093	2.2219 2.0183	2.0432	1.8713	1.9378	Ave		2.0170				5.9		20.0			
Methyl acetate	++++ 1.0152	1.0120 0.9789	0.9892	0.9805	1.0208	Ave		0.9994			0.1000	1.9		20.0			
Methylene Chloride	++++ 1.5212	2.7907 1.4928	1.7762	1.5771	1.5291	Lin1	1.3080	1.4825			0.1000				1.0000		0.9900
2-Methyl-2-propanol	++++ 0.1869	0.1791 0.1794	0.1688	0.1620	0.1794	Ave		0.1759				5.1		20.0			
Methyl tert-butyl ether	++++ 4.1825	4.1329 4.1270	4.0899	4.0468	4.2001	Ave		4.1298			0.1000	1.4		20.0			
trans-1,2-Dichloroethene	++++ 1.2188	1.4076 1.1883	1.2229	1.1700	1.1718	Ave		1.2299			0.1000	7.3		20.0			
Acrylonitrile	0.5296 0.4916	0.5146 0.4736	0.4846	0.4810	0.4993	Ave		0.4963				4.0		20.0			
Hexane	++++ 1.6962	1.7912 1.7878	1.5892	1.6318	1.5672	Ave		1.6772				5.8		20.0			
1,1-Dichloroethane	++++ 2.1504	2.3334 2.1673	2.0821	2.0997	2.1044	Ave		2.1562			0.2000	4.3		20.0			
Vinyl acetate	++++ 2.5847	2.3200 2.5690	2.4308	2.3789	2.5457	Ave		2.4715				4.5		20.0			
2,2-Dichloropropane	++++ 1.0796	1.1084 1.0367	1.0807	1.0533	1.0445	Ave		1.0672				2.5		20.0			
cis-1,2-Dichloroethene	++++ 1.2666	1.3249 1.2848	1.2598	1.2222	1.2478	Ave		1.2677			0.1000	2.8		20.0			
2-Butanone (MEK)	++++ 0.6488	0.5955 0.6281	0.6252	0.6000	0.6460	Ave		0.6239			0.1000	3.6		20.0			
Chlorobromomethane	++++ 0.5994	0.5884 0.5945	0.5711	0.5763	0.5766	Ave		0.5844				1.9		20.0			
Tetrahydrofuran	++++ 0.4417	0.5302 0.4353	0.4346	0.4250	0.4389	Ave		0.4510				8.7		20.0			
Chloroform	++++ 1.3642	1.5268 1.3747	1.3310	1.3253	1.3235	Ave		1.3742			0.2000	5.7		20.0			
1,1,1-Trichloroethane	++++ 1.6423	1.6378 1.6844	1.5319	1.5332	1.5417	Ave		1.5952			0.1000	4.2		20.0			
Cyclohexane	++++ 2.2976	2.3730 2.4423	2.1572	2.2408	2.0929	Ave		2.2673			0.1000	5.8		20.0			
Carbon tetrachloride	++++ 1.5346	1.4201 1.6541	1.4026	1.3938	1.3882	Ave		1.4656			0.1000	7.3		20.0			

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 Buffalo Job No.: 480-64658-1 Analy Batch No.: 186834

SDG No.: _____

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2014 15:07 Calibration End Date: 06/10/2014 17:24 Calibration ID: 18779

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-Dichloropropene	+++++ 1.5942	1.6864 1.6302	1.4990	1.5348	1.4986	Ave		1.5738				4.8		20.0			
Isobutyl alcohol	+++++ 0.0742	0.0679 0.0712	0.0648	0.0644	0.0721	Ave		0.0691				5.8		20.0			
Benzene	+++++ 4.8941	5.2144 4.8332	4.9771	4.8262	4.8010	Ave		4.9243			0.5000	3.2		20.0			
1,2-Dichloroethane	+++++ 1.8942	1.9797 1.8772	1.8637	1.7903	1.8822	Ave		1.8812			0.1000	3.2		20.0			
n-Heptane	+++++ 1.5905	1.9830 1.7050	1.5767	1.5320	1.4788	Ave		1.6443				11.0		20.0			
Trichloroethene	+++++ 1.2138	1.2604 1.2464	1.2379	1.1610	1.1888	Ave		1.2180			0.2000	3.1		20.0			
Methylcyclohexane	+++++ 2.0591	2.1001 2.2652	1.9969	1.9522	1.8620	Ave		2.0393			0.1000	6.8		20.0			
1,2-Dichloropropane	+++++ 1.2256	1.1817 1.2245	1.1927	1.1609	1.1949	Ave		1.1967			0.1000	2.1		20.0			
Dibromomethane	+++++ 0.7465	0.7745 0.7478	0.7197	0.7089	0.7144	Ave		0.7353			0.1000	3.4		20.0			
1,4-Dioxane	+++++ 0.0074	0.0051 0.0068	0.0054	0.0066	0.0071	Ave		0.0064				15.0		20.0			
Bromodichloromethane	+++++ 1.6383	1.4884 1.6954	1.3928	1.4234	1.5490	Ave		1.5312			0.2000	7.8		20.0			
2-Chloroethyl vinyl ether	+++++ 0.8738	0.7962 0.8953	0.8001	0.7937	0.8413	Ave		0.8334				5.3		20.0			
cis-1,3-Dichloropropene	+++++ 2.1090	1.8440 2.1070	1.8540	1.8394	2.0192	Ave		1.9621			0.2000	6.7		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 0.6604	0.6176 0.6160	0.6322	0.6133	0.6622	Ave		0.6336			0.1000	3.5		20.0			
Toluene	+++++ 1.5589	1.6173 1.5197	1.5162	1.4723	1.5178	Ave		1.5337			0.4000	3.2		20.0			
trans-1,3-Dichloropropene	+++++ 0.9213	0.7402 0.9170	0.7637	0.7730	0.8627	Ave		0.8296			0.1000	9.7		20.0			
Ethyl methacrylate	+++++ 0.9001	0.7788 0.8824	0.7926	0.7852	0.8762	Ave		0.8359				6.7		20.0			
1,1,2-Trichloroethane	+++++ 0.4343	0.4169 0.4271	0.4123	0.3999	0.4296	Ave		0.4200			0.1000	3.0		20.0			
Tetrachloroethene	+++++ 0.5658	0.5623 0.5688	0.5609	0.5367	0.5399	Ave		0.5557			0.2000	2.5		20.0			
1,3-Dichloropropane	+++++ 0.9963	0.9498 0.9769	0.9700	0.8969	0.9841	Ave		0.9623				3.7		20.0			

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 Buffalo Job No.: 480-64658-1 Analy Batch No.: 186834

SDG No.: _____

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2014 15:07 Calibration End Date: 06/10/2014 17:24 Calibration ID: 18779

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								
2-Hexanone	++++ 0.4751	0.4354 0.4431	0.4501	0.4341	0.4746	Ave		0.4521			0.1000	4.1		20.0			
Dibromochloromethane	++++ 0.5416	0.3968 0.5593	0.4126	0.4106	0.4917	Ave		0.4688			0.1000	15.0		20.0			
1,2-Dibromoethane	++++ 0.5323	0.4973 0.5314	0.4911	0.4734	0.5255	Ave		0.5085				4.8		20.0			
Chlorobenzene	++++ 1.6692	1.6470 1.6184	1.6555	1.5358	1.6124	Ave		1.6230			0.5000	3.0		20.0			
1,1,1,2-Tetrachloroethane	++++ 0.5293	0.4713 0.5202	0.4569	0.4450	0.5009	Ave		0.4873				7.1		20.0			
Ethylbenzene	++++ 2.8995	2.9680 2.8136	2.8571	2.7331	2.8286	Ave		2.8500			0.1000	2.8		20.0			
m,p-Xylene	++++ 1.1472	1.1851 1.1331	1.0907	1.0622	1.0925	Ave		1.1185			0.1000	4.0		20.0			
o-Xylene	++++ 1.1159	1.1112 1.0879	1.0442	1.0315	1.0818	Ave		1.0787			0.3000	3.2		20.0			
Styrene	++++ 1.9531	1.8827 1.9144	1.7725	1.7580	1.8920	Ave		1.8621			0.3000	4.2		20.0			
Bromoform	++++ 0.3162	0.2097 0.3429	0.2057	0.2179	0.2711	Lin	-1.034	0.3481			0.1000				0.9970		0.9900
Isopropylbenzene	++++ 3.4980	3.4582 3.3924	3.4674	3.3801	3.4332	Ave		3.4382			0.1000	1.3		20.0			
Bromobenzene	++++ 0.7694	0.8263 0.7448	0.7648	0.7168	0.7547	Ave		0.7628				4.8		20.0			
1,1,2,2-Tetrachloroethane	++++ 0.8757	0.7878 0.8468	0.8189	0.7988	0.8654	Ave		0.8322			0.3000	4.3		20.0			
1,2,3-Trichloropropane	++++ 0.2861	0.2889 0.2754	0.2747	0.2668	0.2905	Ave		0.2804				3.4		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.3112	0.2182 0.3032	0.2427	0.2507	0.2827	Ave		0.2681				14.0		20.0			
N-Propylbenzene	++++ 4.1334	4.2519 3.9612	4.1539	4.0135	4.0630	Ave		4.0961				2.6		20.0			
2-Chlorotoluene	++++ 0.7705	0.7889 0.7553	0.7851	0.7547	0.7694	Ave		0.7707				1.9		20.0			
1,3,5-Trimethylbenzene	++++ 3.0277	2.8271 2.9710	3.0033	2.9259	2.9926	Ave		2.9579				2.5		20.0			
4-Chlorotoluene	++++ 0.8149	0.8266 0.7980	0.7891	0.7687	0.8092	Ave		0.8011				2.6		20.0			
tert-Butylbenzene	++++ 0.6327	0.6302 0.6257	0.6304	0.6115	0.6160	Ave		0.6244				1.4		20.0			

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 Buffalo Job No.: 480-64658-1 Analy Batch No.: 186834

SDG No.: _____

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2014 15:07 Calibration End Date: 06/10/2014 17:24 Calibration ID: 18779

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-Trimethylbenzene	++++ 3.1700	3.0204 3.0874	3.1402	3.0478	3.1081	Ave		3.0957				1.8		20.0			
sec-Butylbenzene	++++ 3.7342	3.6715 3.7266	3.6664	3.6203	3.6248	Ave		3.6740				1.3		20.0			
1,3-Dichlorobenzene	++++ 1.5273	1.6198 1.4555	1.5690	1.4827	1.5227	Ave		1.5295			0.6000	3.9		20.0			
4-Isopropyltoluene	++++ 3.2033	3.1607 3.1321	3.2049	3.0803	3.1390	Ave		3.1534				1.5		20.0			
1,4-Dichlorobenzene	++++ 1.5970	1.6653 1.5609	1.6069	1.4927	1.5931	Ave		1.5860			0.5000	3.6		20.0			
n-Butylbenzene	++++ 3.0044	2.8130 3.0189	2.8648	2.8357	2.8756	Ave		2.9021				3.0		20.0			
1,2-Dichlorobenzene	++++ 1.5216	1.5580 1.5005	1.5048	1.4498	1.5108	Ave		1.5076			0.4000	2.3		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.2055	0.1466 0.2204	0.1683	0.1609	0.1918	Ave		0.1822			0.0500	16.0		20.0			
1,2,4-Trichlorobenzene	++++ 1.1656	1.0297 1.1975	1.0724	1.0429	1.0932	Ave		1.1002			0.2000	6.1		20.0			
Hexachlorobutadiene	++++ 0.4688	0.5024 0.5079	0.4401	0.4183	0.4286	Ave		0.4610				8.3		20.0			
Naphthalene	++++ 3.4979	2.8043 3.5333	3.0755	3.0066	3.2771	Ave		3.1991				9.0		20.0			
1,2,3-Trichlorobenzene	++++ 1.1282	1.0219 1.1459	1.0285	0.9917	1.0496	Ave		1.0610				5.8		20.0			
Dibromofluoromethane (Surr)	1.0567 1.0518	1.0151 1.0432	1.0482	1.0714	1.0541	Ave		1.0487				1.6		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7774 0.7631	0.7644 0.7553	0.7760	0.7985	0.7545	Ave		0.7699				2.0		20.0			
Toluene-d8 (Surr)	2.2745 2.2654	2.2845 2.2594	2.2567	2.2590	2.2713	Ave		2.2673				0.5		20.0			
4-Bromofluorobenzene (Surr)	0.6107 0.6137	0.6017 0.6174	0.6050	0.6067	0.6135	Ave		0.6098				0.9		20.0			

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 Buffalo Job No.: 480-64658-1 Analy Batch No.: 186834

SDG No.: _____

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2014 15:07 Calibration End Date: 06/10/2014 17:24 Calibration ID: 18779

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-186834/4	G31249.D
Level 2	IC 480-186834/5	G31250.D
Level 3	IC 480-186834/6	G31251.D
Level 4	IC 480-186834/7	G31252.D
Level 5	ICIS 480-186834/8	G31253.D
Level 6	IC 480-186834/9	G31254.D
Level 7	IC 480-186834/10	G31255.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
Dichlorodifluoromethane	FB	Ave	+++++ 418561	8191 921093	40302	85050	196995	+++++ 50.0	1.00 100	5.00	10.0	25.0
Chloromethane	FB	Ave	+++++ 380327	6958 795411	34535	72226	180873	+++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl chloride	FB	Ave	+++++ 353008	6669 741203	32111	68968	169386	+++++ 50.0	1.00 100	5.00	10.0	25.0
Butadiene	FB	Ave	+++++ 306656	6250 661706	27984	60575	145083	+++++ 50.0	1.00 100	5.00	10.0	25.0
Bromomethane	FB	Ave	+++++ 100470	1947 248676	9898	18435	46003	+++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroethane	FB	Ave	+++++ 175441	4212 356699	17990	35924	86541	+++++ 50.0	1.00 100	5.00	10.0	25.0
Dichlorofluoromethane	FB	Ave	+++++ 373458	5971 782191	24264	58093	165290	+++++ 50.0	1.00 100	5.00	10.0	25.0
Trichlorofluoromethane	FB	Ave	+++++ 400211	6136 886410	32371	70885	180832	+++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl ether	FB	Ave	+++++ 229713	4903 467245	21296	41979	113004	+++++ 50.0	1.00 100	5.00	10.0	25.0
Acrolein	FB	Ave	+++++ 167645	3853 339034	16723	30480	82965	+++++ 250	5.00 500	25.0	50.0	125
1,1-Dichloroethene	FB	Ave	+++++ 321473	6298 668750	31160	60724	148970	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 276716	5515 599326	26861	53202	120804	+++++ 50.0	1.00 100	5.00	10.0	25.0
Acetone	FB	Ave	+++++ 478733	11370 940074	44734	87947	238736	+++++ 250	5.00 500	25.0	50.0	125
Iodomethane	FB	Ave	+++++ 376324	6689 724336	35761	71209	187981	+++++ 50.0	1.00 100	5.00	10.0	25.0
Carbon disulfide	FB	Ave	+++++ 894549	18951 1854336	83560	162238	416426	+++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1 Analy Batch No.: 186834

SDG No.: _____

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2014 15:07 Calibration End Date: 06/10/2014 17:24 Calibration ID: 18779

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
Allyl chloride	FB	Ave	++++ 443168	9430 895806	43171	78430	210713	++++ 50.0	1.00 100	5.00	10.0	25.0
Methyl acetate	FB	Ave	++++ 1119583	21475 2172320	104497	205484	555023	++++ 250	5.00 500	25.0	50.0	125
Methylene Chloride	FB	Lin1	++++ 335500	11844 662559	37528	66101	166281	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methyl-2-propanol	FB	Ave	++++ 412214	7599 796454	35673	67879	195109	++++ 500	10.0 1000	50.0	100	250
Methyl tert-butyl ether	FB	Ave	++++ 922460	17540 1831700	86413	169612	456720	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,2-Dichloroethene	FB	Ave	++++ 268801	5974 527400	25838	49036	127425	++++ 50.0	1.00 100	5.00	10.0	25.0
Acrylonitrile	FB	Ave	11101 1084316	21838 2102092	102389	201596	542951	5.00 500	10.0 1000	50.0	100	250
Hexane	FB	Ave	++++ 374103	7602 793486	33578	68395	170420	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethane	FB	Ave	++++ 474278	9903 961907	43991	88005	228836	++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl acetate	FB	Ave	++++ 1140145	19692 2280429	102717	199412	553652	++++ 100	2.00 200	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	++++ 238100	4704 460129	22833	44146	113575	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,2-Dichloroethene	FB	Ave	++++ 279357	5623 570220	26617	51224	135689	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Butanone (MEK)	FB	Ave	++++ 715495	12637 1393783	66046	125730	351245	++++ 250	5.00 500	25.0	50.0	125
Chlorobromomethane	FB	Ave	++++ 132194	2497 263840	12066	24154	62705	++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrahydrofuran	FB	Ave	++++ 194858	4500 386392	18366	35628	95453	++++ 100	2.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	++++ 300869	6480 610126	28123	55545	143914	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1-Trichloroethane	FB	Ave	++++ 362222	6951 747584	32366	64262	167647	++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexane	FB	Ave	++++ 506748	10071 1083973	45578	93919	227585	++++ 50.0	1.00 100	5.00	10.0	25.0
Carbon tetrachloride	FB	Ave	++++ 338457	6027 734141	29634	58418	150951	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloropropene	FB	Ave	++++ 351598	7157 723533	31671	64328	162960	++++ 50.0	1.00 100	5.00	10.0	25.0
Isobutyl alcohol	FB	Ave	++++ 409148	7207 789673	34232	67531	196010	++++ 1250	25.0 2500	125	250	625

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1 Analy Batch No.: 186834

SDG No.: _____

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2014 15:07 Calibration End Date: 06/10/2014 17:24 Calibration ID: 18779

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	++++ 1079415	22130 2145149	105160	202280	522066	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloroethane	FB	Ave	++++ 417767	8402 833172	39377	75035	204674	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Heptane	FB	Ave	++++ 350786	8416 756734	33313	64211	160810	++++ 50.0	1.00 100	5.00	10.0	25.0
Trichloroethene	FB	Ave	++++ 267707	5349 553189	26155	48662	129274	++++ 50.0	1.00 100	5.00	10.0	25.0
Methylcyclohexane	FB	Ave	++++ 454134	8913 1005370	42191	81823	202481	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloropropane	FB	Ave	++++ 270311	5015 543465	25200	48657	129939	++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromomethane	FB	Ave	++++ 164652	3287 331916	15207	29713	77682	++++ 50.0	1.00 100	5.00	10.0	25.0
1,4-Dioxane	CBZ	Ave	++++ 66944	881 126227	4787	11825	31746	++++ 1000	20.0 2000	100	200	500
Bromodichloromethane	FB	Ave	++++ 361332	6317 752482	29428	59659	168438	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 192725	3379 397353	16904	33268	91485	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	++++ 465152	7826 935173	39172	77094	219574	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	++++ 1495811	26917 2874319	139657	273768	741257	++++ 250	5.00 500	25.0	50.0	125
Toluene	CBZ	Ave	++++ 706177	14097 1418221	66986	131438	339809	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,3-Dichloropropene	CBZ	Ave	++++ 417362	6452 855770	33740	69006	193140	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl methacrylate	CBZ	Ave	++++ 407749	6788 823473	35018	70096	196159	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloroethane	CBZ	Ave	++++ 196718	3634 398606	18218	35697	96168	++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrachloroethene	CBZ	Ave	++++ 256319	4901 530823	24780	47913	120878	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichloropropane	CBZ	Ave	++++ 451343	8279 911650	42858	80070	220314	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Hexanone	CBZ	Ave	++++ 1076109	18974 2067337	99439	193761	531299	++++ 250	5.00 500	25.0	50.0	125
Dibromochloromethane	CBZ	Ave	++++ 245369	3459 521912	18228	36655	110083	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromoethane	CBZ	Ave	++++ 241143	4335 495939	21699	42263	117655	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1 Analy Batch No.: 186834

SDG No.: _____

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2014 15:07 Calibration End Date: 06/10/2014 17:24 Calibration ID: 18779

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
Chlorobenzene	CBZ	Ave	++++ 756152	14356 1510287	73142	137110	360971	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	++++ 239788	4108 485493	20186	39725	112144	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethylbenzene	CBZ	Ave	++++ 1313467	25871 2625638	126229	243994	633271	++++ 50.0	1.00 100	5.00	10.0	25.0
m,p-Xylene	CBZ	Ave	++++ 519676	10330 1057424	48187	94828	244594	++++ 50.0	1.00 100	5.00	10.0	25.0
o-Xylene	CBZ	Ave	++++ 505499	9686 1015252	46133	92082	242192	++++ 50.0	1.00 100	5.00	10.0	25.0
Styrene	CBZ	Ave	++++ 884747	16411 1786494	78313	156946	423587	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromoform	CBZ	Lin	++++ 143227	1828 319952	9087	19453	60683	++++ 50.0	1.00 100	5.00	10.0	25.0
Isopropylbenzene	DCB	Ave	++++ 1325234	24793 2691580	122801	242134	630478	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromobenzene	DCB	Ave	++++ 291471	5924 590905	27086	51350	138590	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2,2-Tetrachloroethane	DCB	Ave	++++ 331765	5648 671847	29001	57223	158921	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichloropropane	DCB	Ave	++++ 108404	2071 218478	9729	19110	53355	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,4-Dichloro-2-butene	DCB	Ave	++++ 117889	1564 240533	8597	17958	51909	++++ 50.0	1.00 100	5.00	10.0	25.0
N-Propylbenzene	DCB	Ave	++++ 1565934	30483 3142827	147112	287509	746142	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorotoluene	DCB	Ave	++++ 291916	5656 599244	27806	54062	141292	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trimethylbenzene	DCB	Ave	++++ 1147068	20268 2357220	106365	209595	549569	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorotoluene	DCB	Ave	++++ 308728	5926 633156	27948	55069	148611	++++ 50.0	1.00 100	5.00	10.0	25.0
tert-Butylbenzene	DCB	Ave	++++ 239712	4518 496437	22326	43804	113122	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trimethylbenzene	DCB	Ave	++++ 1200977	21654 2449590	111213	218329	570774	++++ 50.0	1.00 100	5.00	10.0	25.0
sec-Butylbenzene	DCB	Ave	++++ 1414691	26322 2956730	129850	259338	665671	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichlorobenzene	DCB	Ave	++++ 578622	11613 1154798	55567	106211	279625	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Isopropyltoluene	DCB	Ave	++++ 1213574	22660 2485026	113505	220657	576459	++++ 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1 Analy Batch No.: 186834

SDG No.: _____

Instrument ID: HP5973G GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/10/2014 15:07 Calibration End Date: 06/10/2014 17:24 Calibration ID: 18779

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
1,4-Dichlorobenzene	DCB	Ave	++++ 605022	11939 1238414	56909	106930	292553	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butylbenzene	DCB	Ave	++++ 1138231	20167 2395195	101460	203138	528080	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichlorobenzene	DCB	Ave	++++ 576465	11170 1190480	53295	103855	277446	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	++++ 77856	1051 174842	5961	11525	35220	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trichlorobenzene	DCB	Ave	++++ 441605	7382 950081	37980	74706	200763	++++ 50.0	1.00 100	5.00	10.0	25.0
Hexachlorobutadiene	DCB	Ave	++++ 177613	3602 402966	15587	29963	78709	++++ 50.0	1.00 100	5.00	10.0	25.0
Naphthalene	DCB	Ave	++++ 1325175	20105 2803352	108923	215380	601815	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichlorobenzene	DCB	Ave	++++ 427411	7326 909141	36425	71043	192748	++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromofluoromethane (Surr)	FB	Ave	110753 115990	107704 115750	110731	112266	114629	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	81481 84157	81107 83807	81982	83664	82040	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	497510 513118	497821 527132	498513	504162	508503	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	133586 138999	131127 144031	133657	135410	137349	25.0 25.0	25.0 25.0	25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31249.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 10-Jun-2014 15:07:30 ALS Bottle#: 2 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0032823-004 =480-0032823-004
 Operator ID: RAS Instrument ID: HP5973G
 Sublist: chrom-G-8260*sub20
 Method: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Jun-2014 09:12:59 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: sobolr

Date: 11-Jun-2014 09:12:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.602	5.596	0.006	98	104806	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	87	218731	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.967	10.973	-0.006	97	181210	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.004	5.005	-0.001	80	110753	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.315	5.316	-0.001	0	81481	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	497510	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	81	133586	25.0	25.0	
10 Dichlorodifluoromethane	85		1.426					ND	
12 Chloromethane	50		1.579					ND	
13 Vinyl chloride	62		1.694					ND	
144 Butadiene	54		1.719					ND	
14 Bromomethane	94		1.993					ND	
15 Chloroethane	64		2.121					ND	
16 Dichlorofluoromethane	67		2.341					ND	
17 Trichlorofluoromethane	101		2.353					ND	
18 Ethyl ether	59		2.621					ND	
19 Acrolein	56		2.786					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.871					ND	
20 1,1-Dichloroethene	96		2.877					ND	
22 Acetone	43		2.938					ND	
23 Iodomethane	142		3.042					ND	
24 Carbon disulfide	76		3.072					ND	
26 3-Chloro-1-propene	41		3.200					ND	
28 Methyl acetate	43		3.243					ND	
29 Methylene Chloride	84		3.383					ND	
30 2-Methyl-2-propanol	59		3.505					ND	
31 Methyl tert-butyl ether	73		3.572					ND	
32 trans-1,2-Dichloroethene	96		3.578					ND	
33 Acrylonitrile	53	3.621	3.603	0.018	95	11101	5.00	5.34	
34 Hexane	57		3.792					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63		3.987					ND	
38 Vinyl acetate	43		4.041					ND	
42 2,2-Dichloropropane	77		4.517					ND	
43 cis-1,2-Dichloroethene	96		4.541					ND	
44 2-Butanone (MEK)	43		4.572					ND	
48 Chlorobromomethane	128		4.773					ND	
49 Tetrahydrofuran	42		4.810					ND	
50 Chloroform	85		4.852					ND	
51 1,1,1-Trichloroethane	97		4.980					ND	
52 Cyclohexane	56		5.005					ND	
53 Carbon tetrachloride	117		5.127					ND	
54 1,1-Dichloropropene	75		5.133					ND	
55 Isobutyl alcohol	43		5.322					ND	
56 Benzene	78		5.334					ND	
57 1,2-Dichloroethane	62		5.389					ND	
59 n-Heptane	43		5.535					ND	
61 Trichloroethene	95		5.944					ND	
62 Methylcyclohexane	83		6.084					ND	
63 1,2-Dichloropropane	63		6.175					ND	
65 Dibromomethane	93		6.309					ND	
66 1,4-Dioxane	88		6.322					ND	
67 Dichlorobromomethane	83		6.462					ND	
70 2-Chloroethyl vinyl ether	63		6.736					ND	
72 cis-1,3-Dichloropropene	75		6.882					ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.016					ND	
74 Toluene	92		7.181					ND	
76 trans-1,3-Dichloropropene	75		7.443					ND	
78 Ethyl methacrylate	69		7.498					ND	
79 1,1,2-Trichloroethane	83		7.632					ND	
80 Tetrachloroethene	166		7.724					ND	
81 1,3-Dichloropropane	76		7.797					ND	
82 2-Hexanone	43		7.858					ND	
83 Chlorodibromomethane	129		8.035					ND	
84 Ethylene Dibromide	107		8.144					ND	
86 Chlorobenzene	112		8.626					ND	
88 1,1,1,2-Tetrachloroethane	131		8.723					ND	
89 Ethylbenzene	91		8.723					ND	
90 m-Xylene & p-Xylene	106		8.845					ND	
91 o-Xylene	106		9.272					ND	
92 Styrene	104		9.297					ND	
93 Bromoform	173		9.534					ND	
95 Isopropylbenzene	105		9.656					ND	
97 Bromobenzene	156		9.992					ND	
98 1,1,2,2-Tetrachloroethane	83		10.022					ND	
99 1,2,3-Trichloropropane	110		10.059					ND	
100 trans-1,4-Dichloro-2-buten	53		10.071					ND	
101 N-Propylbenzene	91		10.077					ND	
102 2-Chlorotoluene	126		10.174					ND	
104 1,3,5-Trimethylbenzene	105		10.248					ND	
105 4-Chlorotoluene	126		10.284					ND	
106 tert-Butylbenzene	134		10.565					ND	
107 1,2,4-Trimethylbenzene	105		10.619					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105		10.778					ND	
110 1,3-Dichlorobenzene	146		10.906					ND	
111 4-Isopropyltoluene	119		10.912					ND	
113 1,4-Dichlorobenzene	146		10.991					ND	
115 n-Butylbenzene	91		11.296					ND	
116 1,2-Dichlorobenzene	146		11.345					ND	
117 1,2-Dibromo-3-Chloropropan	75		12.058					ND	
119 1,2,4-Trichlorobenzene	180		12.747					ND	
120 Hexachlorobutadiene	225		12.863					ND	
121 Naphthalene	128		12.954					ND	
122 1,2,3-Trichlorobenzene	180		13.162					ND	
S 123 Total BTEX	1		30.000					0	
S 124 Xylenes, Total	1		30.000					0	
S 125 1,2-Dichloroethene, Total	1		30.000					0	
S 126 1,3-Dichloropropene, Total	1		30.000					0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31249.D

Injection Date: 10-Jun-2014 15:07:30

Instrument ID: HP5973G

Operator ID: RAS

Lims ID: IC 0.5

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

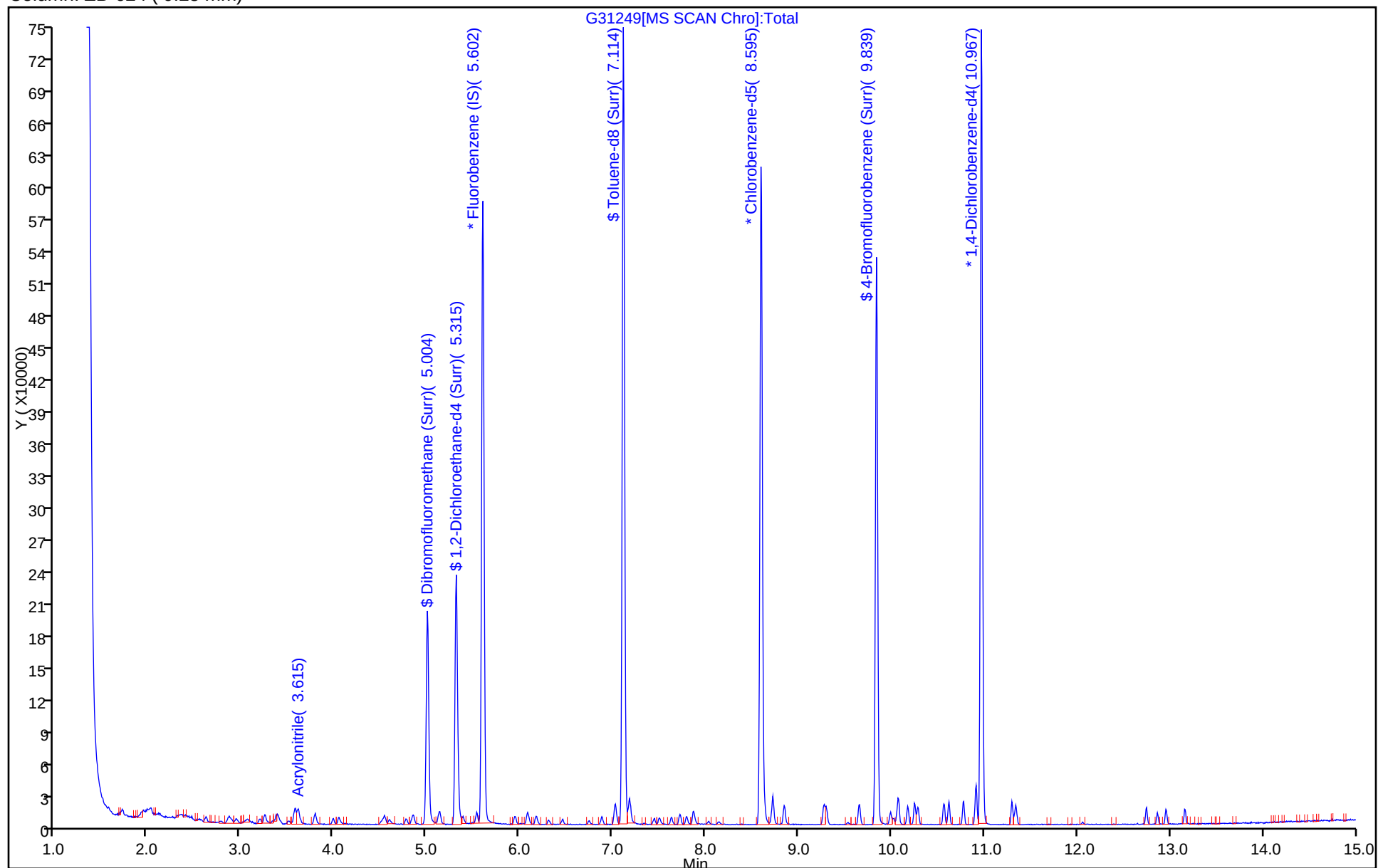
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31250.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 10-Jun-2014 15:30:30 ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0032823-005 =480-0032823-005
 Operator ID: RAS Instrument ID: HP5973G
 Sublist: chrom-G-8260*sub20
 Method: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Jun-2014 09:19:16 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: sobolr

Date: 11-Jun-2014 09:19:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.602	5.596	0.006	99	106101	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	88	217913	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.973	10.973	0.000	97	179232	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.005	5.005	0.000	80	107704	25.0	24.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.315	5.316	-0.001	0	81107	25.0	24.8	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	497821	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	82	131127	25.0	24.7	
10 Dichlorodifluoromethane	85	1.420	1.426	-0.006	58	8191	1.00	0.99	
12 Chloromethane	50	1.578	1.579	-0.001	82	6958	1.00	0.9666	M
13 Vinyl chloride	62	1.688	1.694	-0.006	53	6669	1.00	0.9857	
144 Butadiene	54	1.719	1.719	0.000	93	6250	1.00	1.04	M
14 Bromomethane	94	1.987	1.993	-0.006	75	1947	1.00	1.00	M
15 Chloroethane	64	2.127	2.121	0.006	14	4212	1.00	1.17	
16 Dichlorofluoromethane	67	2.328	2.341	-0.013	59	5971	1.00	0.9467	M
17 Trichlorofluoromethane	101	2.359	2.353	0.006	53	6136	1.00	0.8552	
18 Ethyl ether	59	2.615	2.621	-0.006	83	4903	1.00	1.10	
19 Acrolein	56	2.779	2.786	-0.007	73	3853	5.00	5.78	
21 1,1,2-Trichloro-1,2,2-trif	101	2.883	2.871	0.012	7	5515	1.00	1.06	M
20 1,1-Dichloroethene	96	2.859	2.877	-0.018	73	6298	1.00	1.02	
22 Acetone	43	2.944	2.938	0.006	96	11370	5.00	6.01	
23 Iodomethane	142	3.029	3.042	-0.013	73	6689	1.00	0.9424	
24 Carbon disulfide	76	3.072	3.072	0.000	95	18951	1.00	1.10	
26 3-Chloro-1-propene	41	3.206	3.200	0.006	66	9430	1.00	1.10	
28 Methyl acetate	43	3.249	3.243	0.006	94	21475	5.00	5.06	M
29 Methylene Chloride	84	3.383	3.383	0.000	78	11844	1.00	1.00	
30 2-Methyl-2-propanol	59	3.517	3.505	0.012	85	7599	10.0	10.2	
31 Methyl tert-butyl ether	73	3.578	3.572	0.006	82	17540	1.00	1.00	
32 trans-1,2-Dichloroethene	96	3.578	3.578	0.000	56	5974	1.00	1.14	
33 Acrylonitrile	53	3.608	3.603	0.005	97	21838	10.0	10.4	
34 Hexane	57	3.797	3.792	0.005	88	7602	1.00	1.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.993	3.987	0.006	64	9903	1.00	1.08	
38 Vinyl acetate	43	4.047	4.041	0.006	95	19692	2.00	1.88	
42 2,2-Dichloropropane	77	4.517	4.517	0.000	63	4704	1.00	1.04	
43 cis-1,2-Dichloroethene	96	4.541	4.541	0.000	56	5623	1.00	1.05	
44 2-Butanone (MEK)	43	4.590	4.572	0.018	91	12637	5.00	4.77	
48 Chlorobromomethane	128	4.785	4.773	0.012	75	2497	1.00	1.01	M
49 Tetrahydrofuran	42	4.828	4.810	0.018	83	4500	2.00	2.35	
50 Chloroform	85	4.852	4.852	0.000	72	6480	1.00	1.11	
51 1,1,1-Trichloroethane	97	4.980	4.980	0.000	68	6951	1.00	1.03	
52 Cyclohexane	56	5.005	5.005	0.000	23	10071	1.00	1.05	
53 Carbon tetrachloride	117	5.126	5.127	-0.001	69	6027	1.00	0.9690	
54 1,1-Dichloropropene	75	5.139	5.133	0.006	86	7157	1.00	1.07	
55 Isobutyl alcohol	43	5.334	5.322	0.012	42	7207	25.0	24.6	
56 Benzene	78	5.334	5.334	0.000	92	22130	1.00	1.06	
57 1,2-Dichloroethane	62	5.389	5.389	0.000	68	8402	1.00	1.05	
59 n-Heptane	43	5.535	5.535	0.000	85	8416	1.00	1.21	
61 Trichloroethene	95	5.950	5.944	0.006	78	5349	1.00	1.03	
62 Methylcyclohexane	83	6.090	6.084	0.006	84	8913	1.00	1.03	
63 1,2-Dichloropropane	63	6.181	6.175	0.006	71	5015	1.00	0.9874	
65 Dibromomethane	93	6.309	6.309	0.000	75	3287	1.00	1.05	
66 1,4-Dioxane	88	6.358	6.322	0.036	0	881	20.0	16.3	M
67 Dichlorobromomethane	83	6.455	6.462	-0.007	77	6317	1.00	0.9721	
70 2-Chloroethyl vinyl ether	63	6.742	6.736	0.006	66	3379	1.00	0.9553	
72 cis-1,3-Dichloropropene	75	6.888	6.882	0.006	63	7826	1.00	0.9398	
73 4-Methyl-2-pentanone (MIBK)	43	7.022	7.016	0.006	93	26917	5.00	4.87	
74 Toluene	92	7.181	7.181	0.000	92	14097	1.00	1.05	
76 trans-1,3-Dichloropropene	75	7.443	7.443	0.000	69	6452	1.00	0.8922	
78 Ethyl methacrylate	69	7.498	7.498	0.000	76	6788	1.00	0.9317	
79 1,1,2-Trichloroethane	83	7.638	7.632	0.006	73	3634	1.00	0.99	
80 Tetrachloroethene	166	7.730	7.724	0.006	81	4901	1.00	1.01	
81 1,3-Dichloropropane	76	7.797	7.797	0.000	86	8279	1.00	0.9870	
82 2-Hexanone	43	7.864	7.858	0.006	93	18974	5.00	4.82	
83 Chlorodibromomethane	129	8.028	8.035	-0.007	64	3459	1.00	0.8465	
84 Ethylene Dibromide	107	8.144	8.144	0.000	66	4335	1.00	0.9780	
86 Chlorobenzene	112	8.626	8.626	0.000	46	14356	1.00	1.01	
88 1,1,1,2-Tetrachloroethane	131	8.717	8.723	-0.006	20	4108	1.00	0.9672	
89 Ethylbenzene	91	8.723	8.723	0.000	95	25871	1.00	1.04	
90 m-Xylene & p-Xylene	106	8.845	8.845	0.000	0	10330	1.00	1.06	
91 o-Xylene	106	9.272	9.272	0.000	89	9686	1.00	1.03	
92 Styrene	104	9.296	9.297	-0.001	84	16411	1.00	1.01	
93 Bromoform	173	9.540	9.534	0.006	61	1828	1.00	3.57	
95 Isopropylbenzene	105	9.656	9.656	0.000	89	24793	1.00	1.01	
97 Bromobenzene	156	9.991	9.992	-0.001	91	5924	1.00	1.08	
98 1,1,2,2-Tetrachloroethane	83	10.028	10.022	0.006	68	5648	1.00	0.9466	
99 1,2,3-Trichloropropane	110	10.058	10.059	-0.001	57	2071	1.00	1.03	
100 trans-1,4-Dichloro-2-buten	53	10.071	10.071	0.000	21	1564	1.00	0.8137	
101 N-Propylbenzene	91	10.077	10.077	0.000	96	30483	1.00	1.04	
102 2-Chlorotoluene	126	10.174	10.174	0.000	88	5656	1.00	1.02	
104 1,3,5-Trimethylbenzene	105	10.247	10.248	-0.001	90	20268	1.00	0.9558	
105 4-Chlorotoluene	126	10.284	10.284	0.000	87	5926	1.00	1.03	
106 tert-Butylbenzene	134	10.564	10.565	-0.001	85	4518	1.00	1.01	
107 1,2,4-Trimethylbenzene	105	10.619	10.619	0.000	88	21654	1.00	0.9757	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.778	0.000	82	26322	1.00	1.00	
110 1,3-Dichlorobenzene	146	10.912	10.906	0.006	87	11613	1.00	1.06	
111 4-Isopropyltoluene	119	10.918	10.912	0.006	95	22660	1.00	1.00	
113 1,4-Dichlorobenzene	146	10.991	10.991	0.000	82	11939	1.00	1.05	
115 n-Butylbenzene	91	11.296	11.296	0.000	93	20167	1.00	0.9693	
116 1,2-Dichlorobenzene	146	11.345	11.345	0.000	89	11170	1.00	1.03	
117 1,2-Dibromo-3-Chloropropan	75	12.058	12.058	0.000	1	1051	1.00	0.8044	
119 1,2,4-Trichlorobenzene	180	12.747	12.747	0.000	84	7382	1.00	0.9359	
120 Hexachlorobutadiene	225	12.863	12.863	0.000	74	3602	1.00	1.09	
121 Naphthalene	128	12.960	12.954	0.006	92	20105	1.00	0.8766	
122 1,2,3-Trichlorobenzene	180	13.155	13.162	-0.007	83	7326	1.00	0.9632	
S 125 1,2-Dichloroethene, Total	1				0			2.19	
S 126 1,3-Dichloropropene, Total	1				0			1.83	
S 123 Total BTEX	1				0			5.24	
S 124 Xylenes, Total	1				0			2.09	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31250.D

Injection Date: 10-Jun-2014 15:30:30

Instrument ID: HP5973G

Operator ID: RAS

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

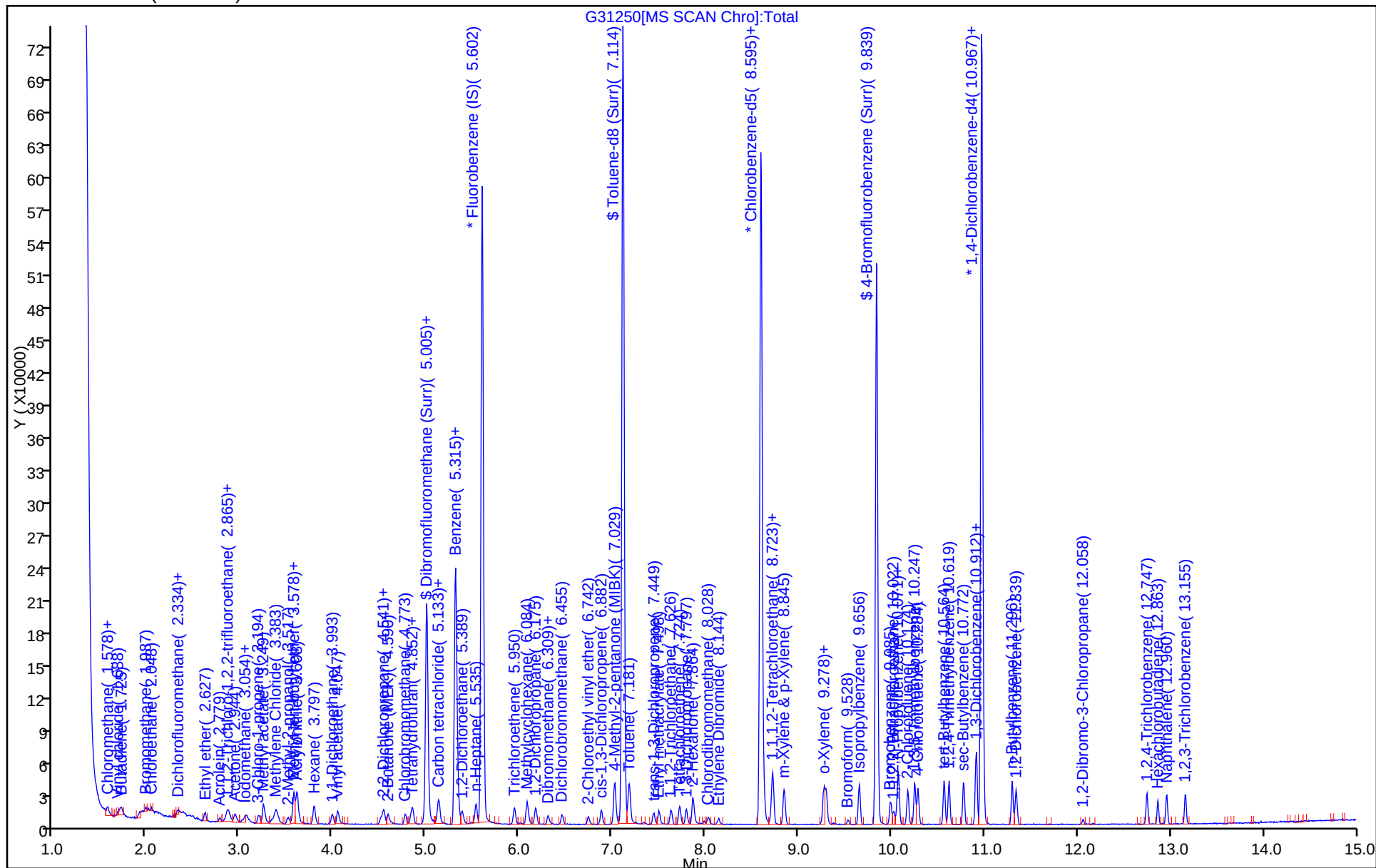
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31250.D

Injection Date: 10-Jun-2014 15:30:30

Instrument ID: HP5973G

Lims ID: IC

Client ID:

Operator ID: RAS

ALS Bottle#:

3

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

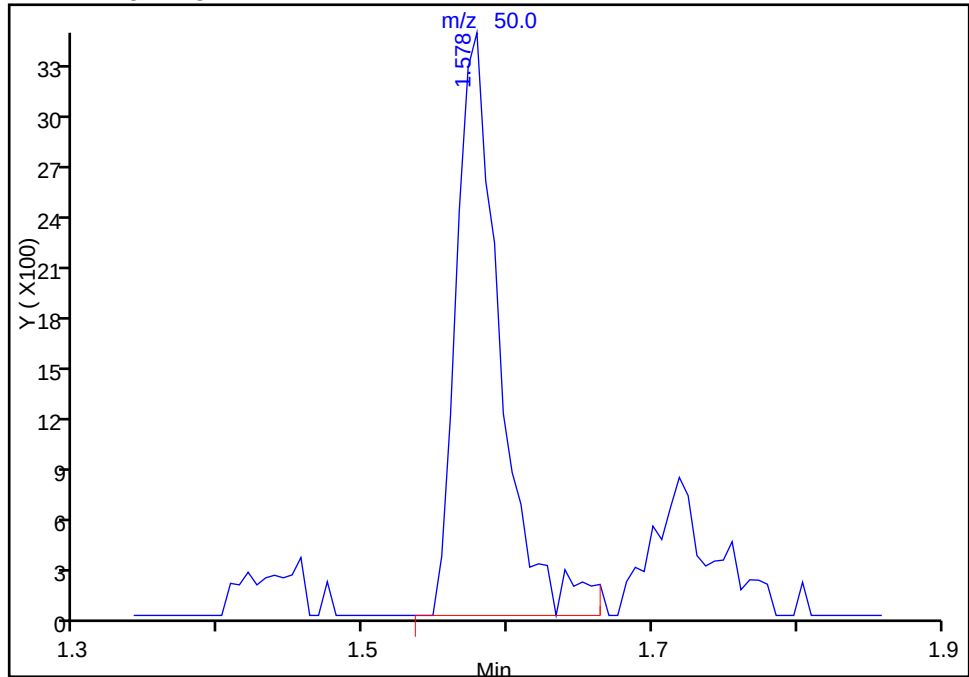
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

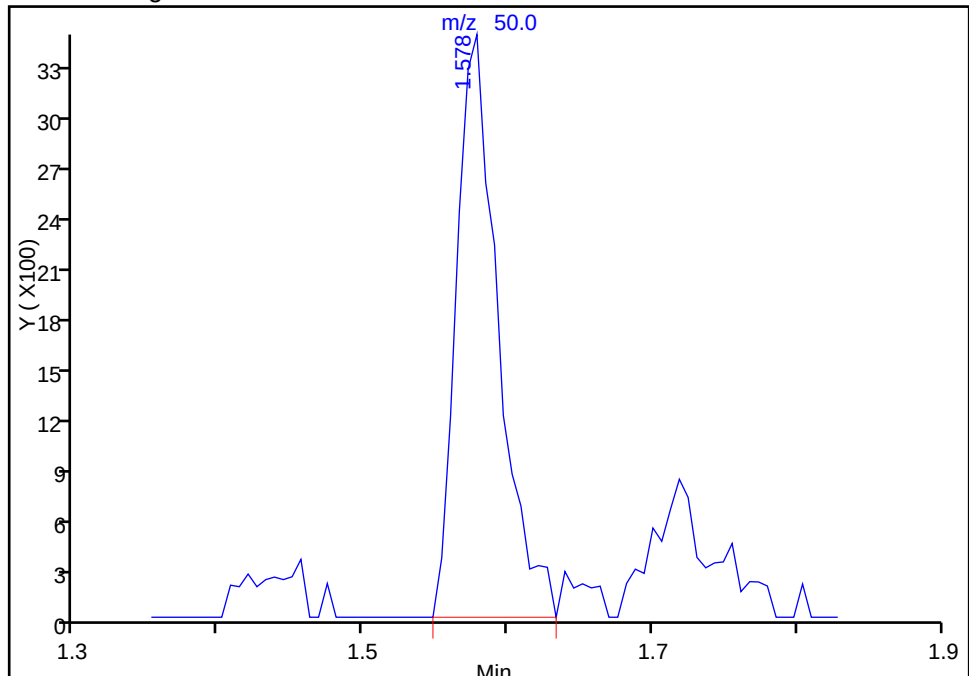
RT: 1.58
Response: 7324
Amount: 1.008858

Processing Integration Results



RT: 1.58
Response: 6958
Amount: 0.966564

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:16:01

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31250.D

Injection Date: 10-Jun-2014 15:30:30

Instrument ID: HP5973G

Lims ID: IC

Client ID:

Operator ID: RAS

ALS Bottle#:

3

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: G-8260

Limit Group:

MV - 8260C ICAL

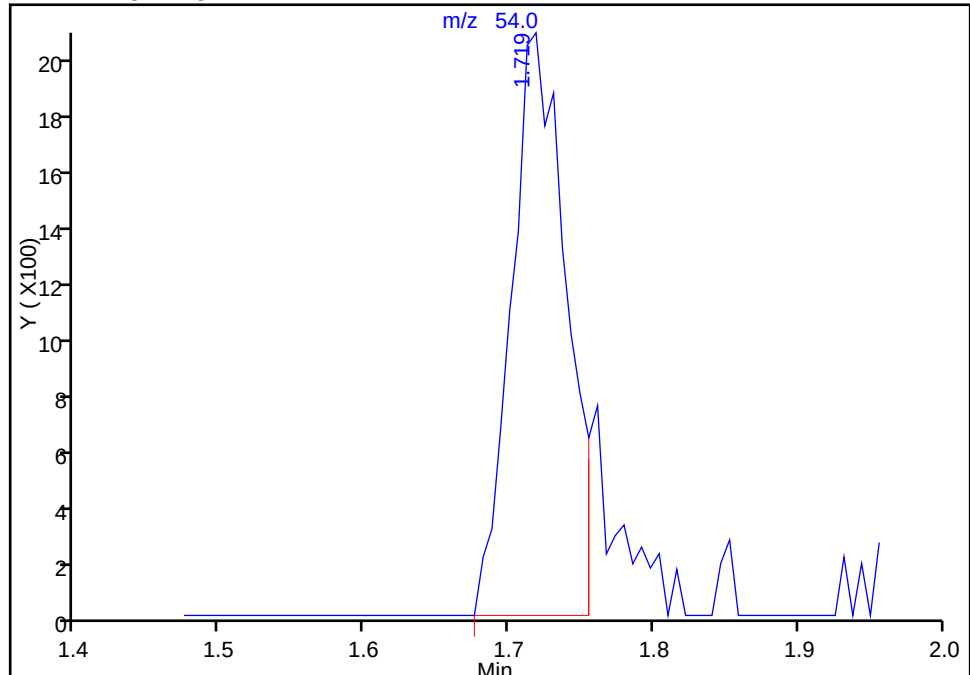
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Detector

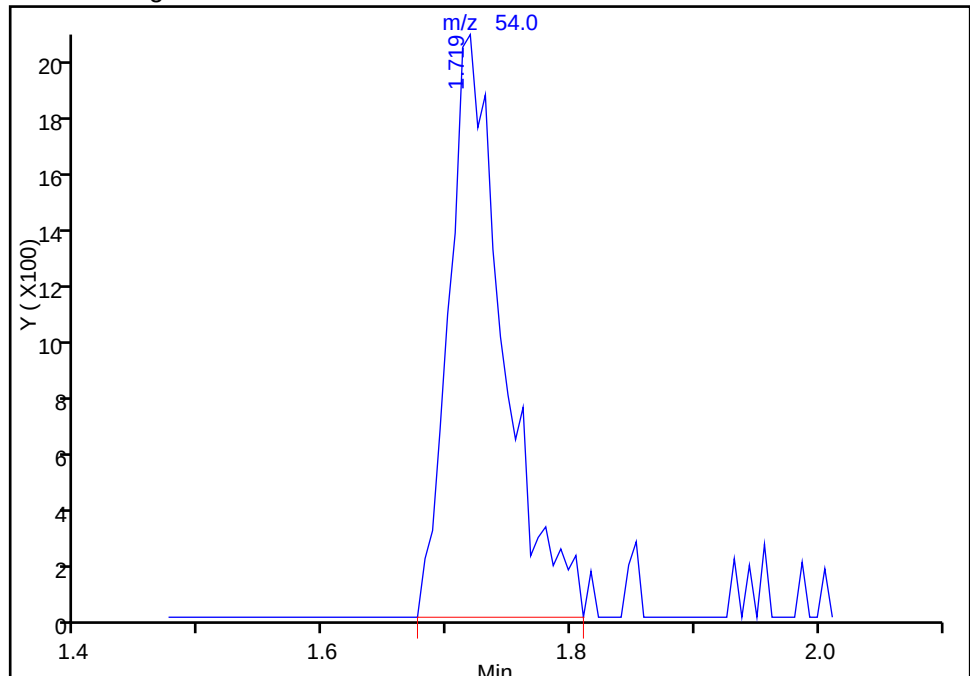
MS SCAN

144 Butadiene, CAS: 106-99-0RT: 1.72
Response: 5395
Amount: 0.923788

Processing Integration Results

RT: 1.72
Response: 6250
Amount: 1.044699

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:16:01

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31250.D

Injection Date: 10-Jun-2014 15:30:30

Instrument ID: HP5973G

Lims ID: IC

Client ID:

Operator ID: RAS

ALS Bottle#:

3

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: G-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

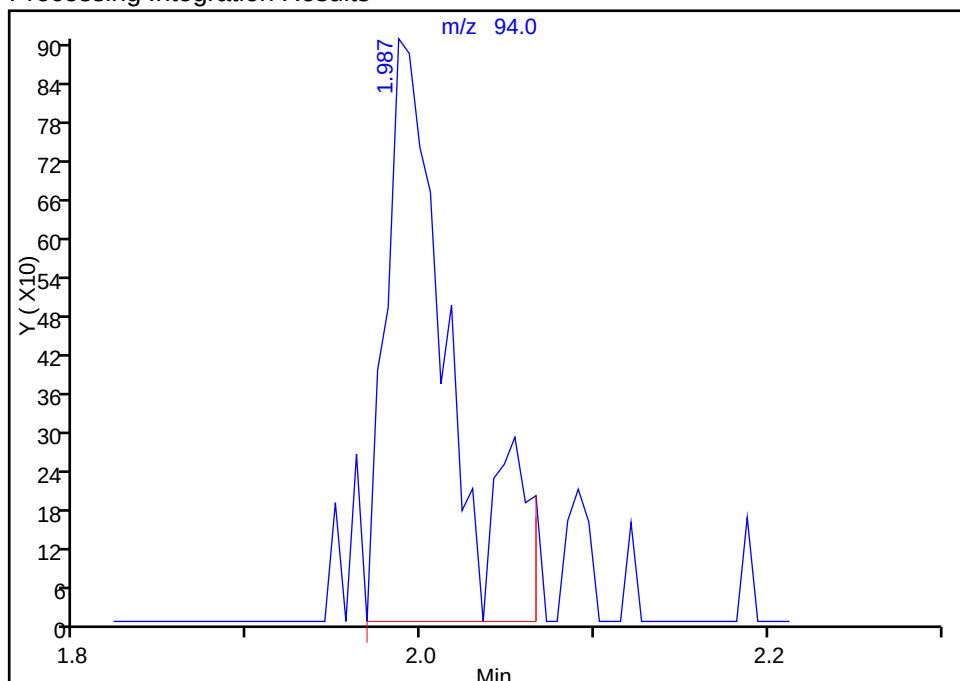
Detector

MS SCAN

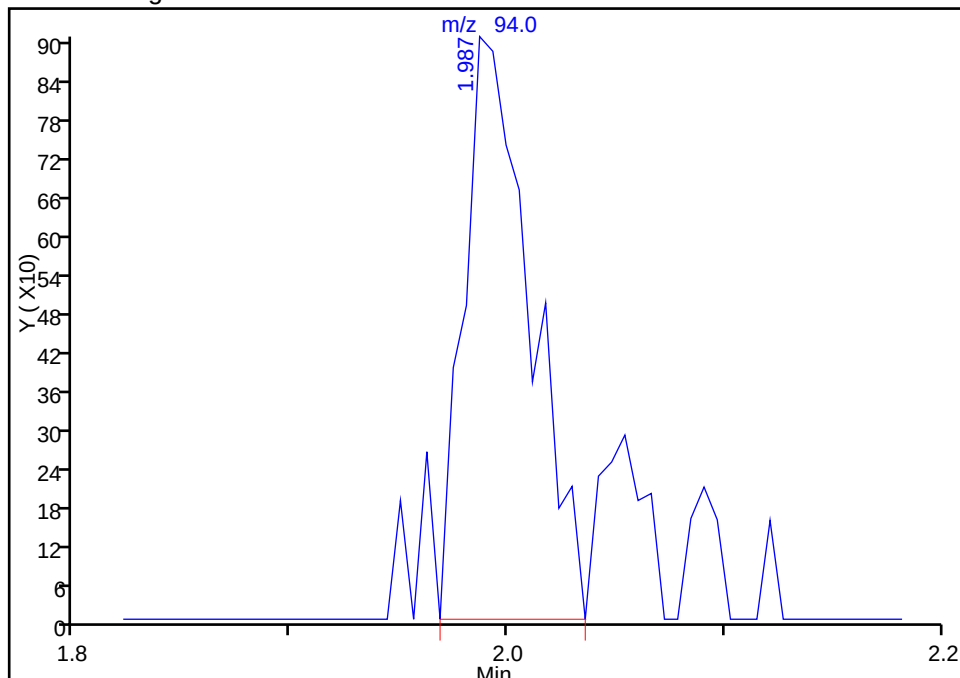
14 Bromomethane, CAS: 74-83-9

RT: 1.99
Response: 2363
Amount: 1.173222

Processing Integration Results

RT: 1.99
Response: 1947
Amount: 1.001143

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:16:01

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31250.D

Injection Date: 10-Jun-2014 15:30:30

Instrument ID: HP5973G

Lims ID: IC

Client ID:

Operator ID: RAS

ALS Bottle#:

3

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

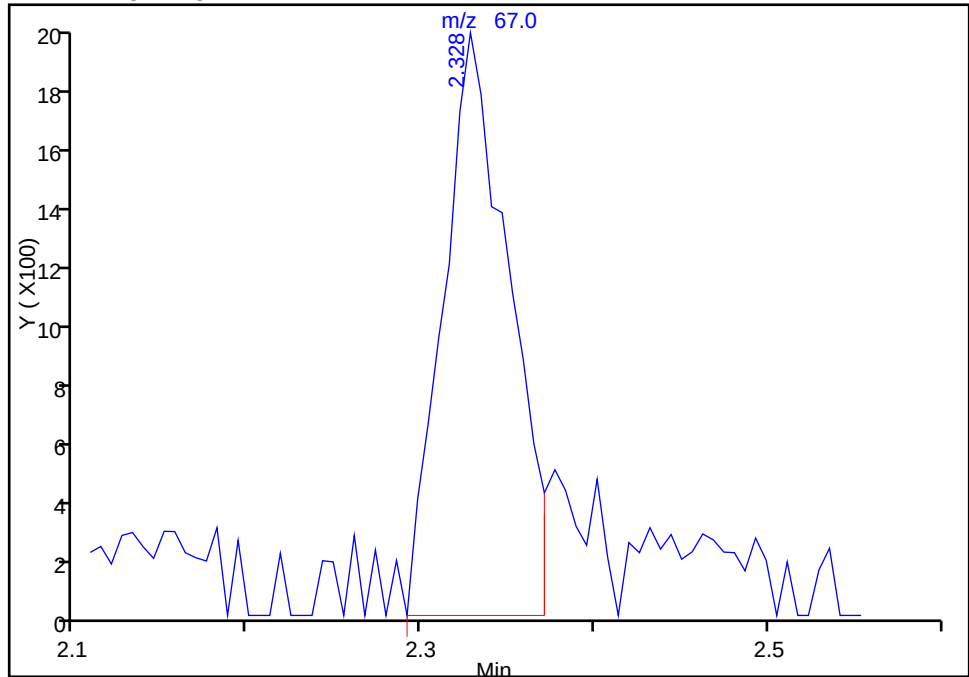
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

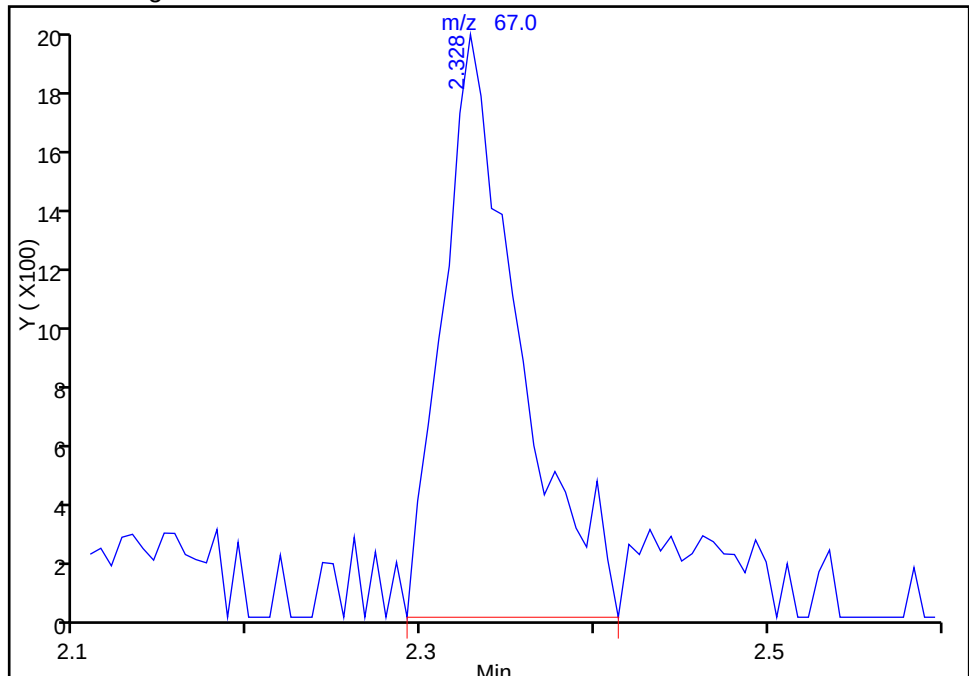
RT: 2.33
Response: 5203
Amount: 0.841996

Processing Integration Results



RT: 2.33
Response: 5971
Amount: 0.946671

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:16:01

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31250.D

Injection Date: 10-Jun-2014 15:30:30

Instrument ID: HP5973G

Lims ID: IC

Client ID:

Operator ID: RAS

ALS Bottle#:

3

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

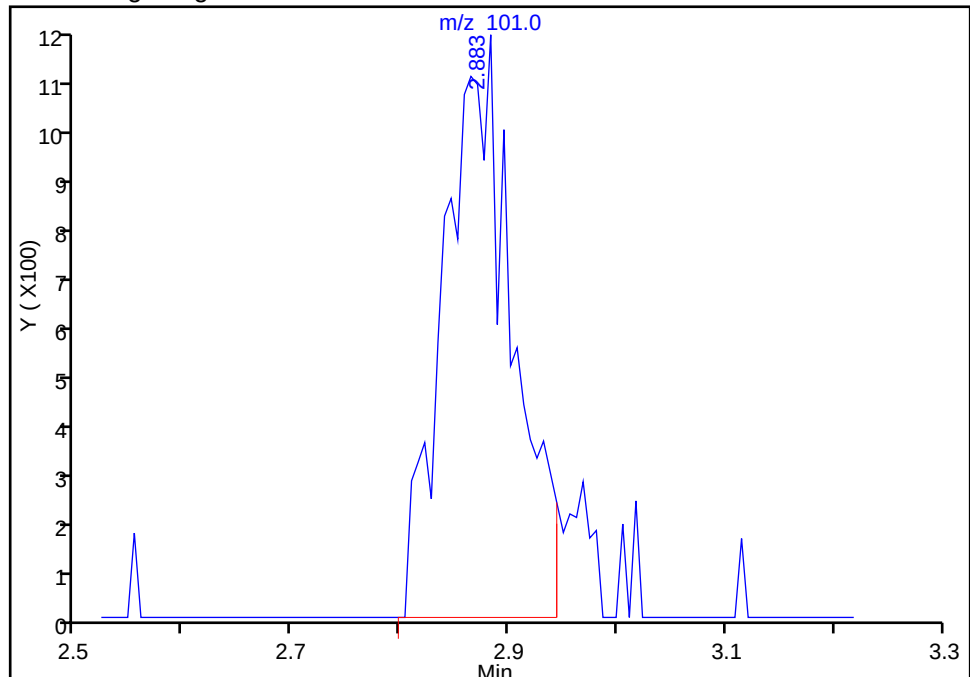
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

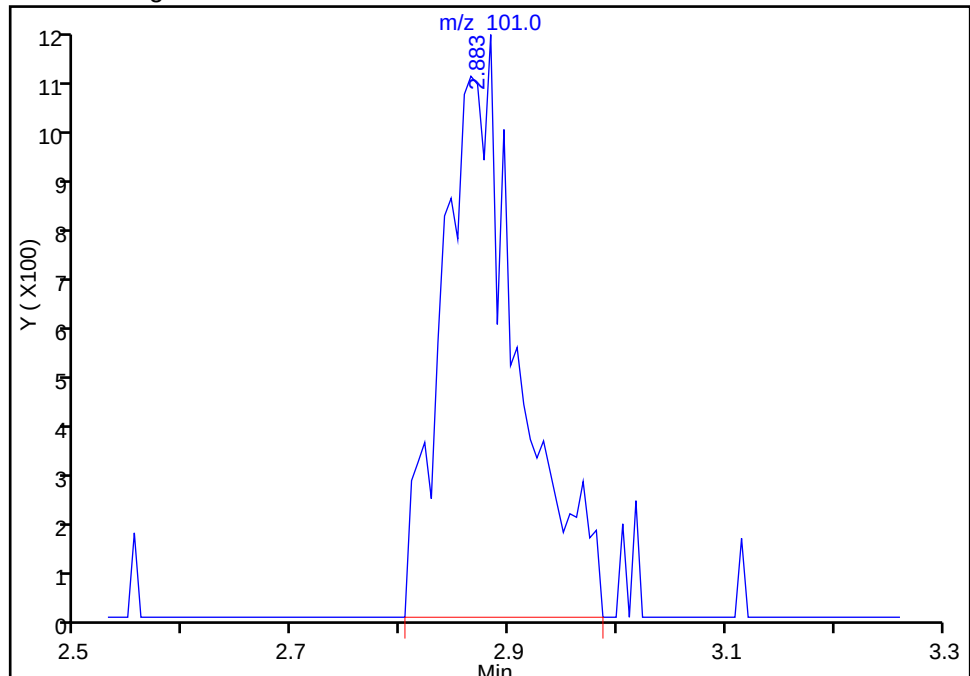
21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

RT: 2.88
Response: 5086
Amount: 0.990762

Processing Integration Results

RT: 2.88
Response: 5515
Amount: 1.059573

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:16:01

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31250.D

Injection Date: 10-Jun-2014 15:30:30

Instrument ID: HP5973G

Lims ID: IC

Client ID:

Operator ID: RAS

ALS Bottle#:

3

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

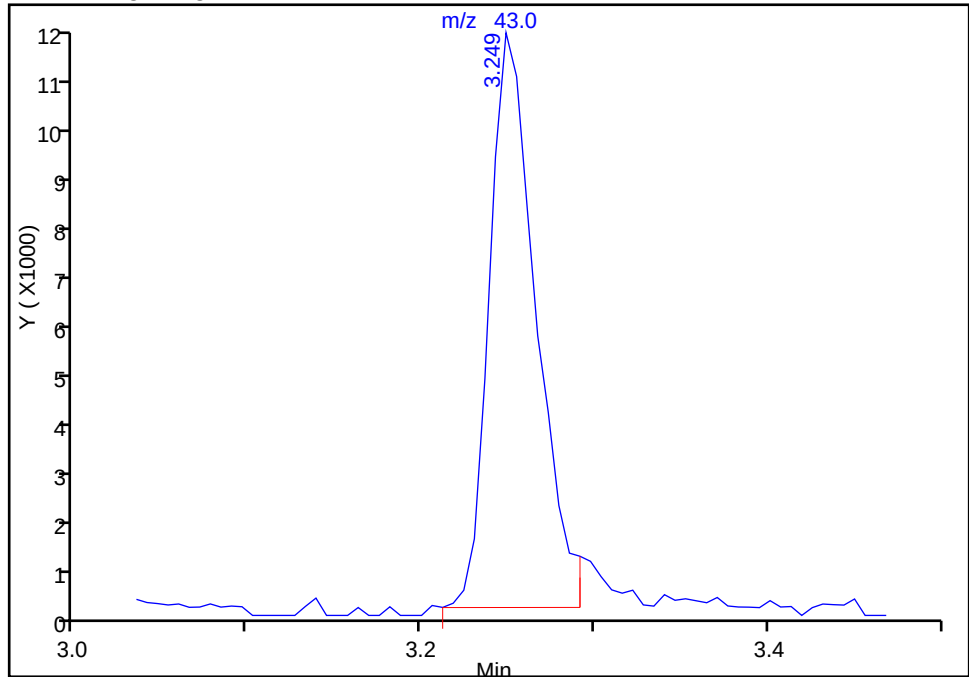
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

28 Methyl acetate, CAS: 79-20-9

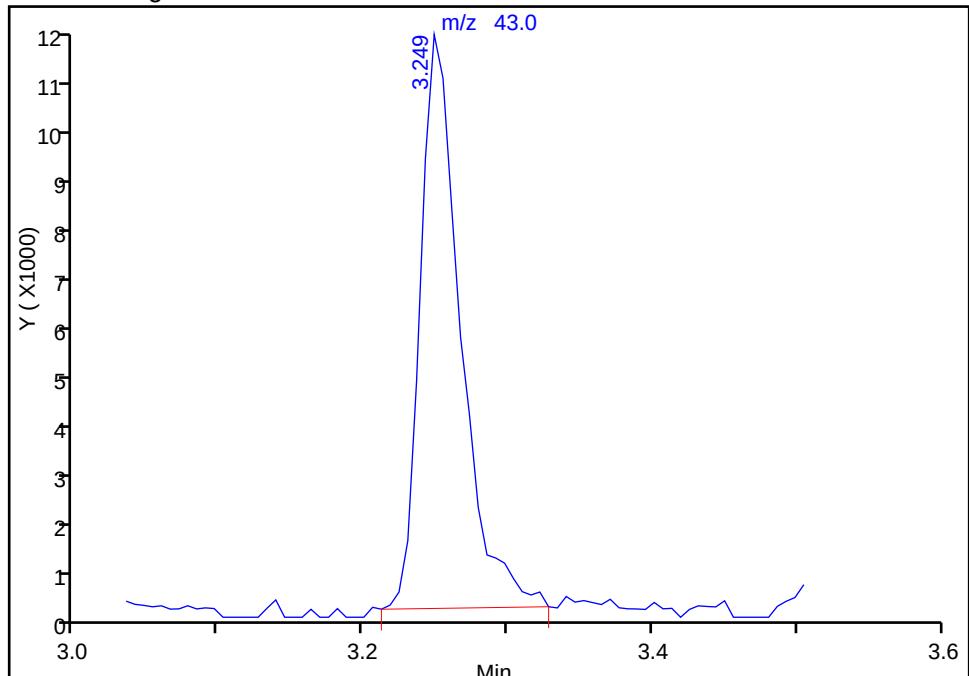
RT: 3.25
Response: 20758
Amount: 4.921561

Processing Integration Results



RT: 3.25
Response: 21475
Amount: 5.062867

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:17:10

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31250.D

Injection Date: 10-Jun-2014 15:30:30

Instrument ID: HP5973G

Lims ID: IC

Client ID:

Operator ID: RAS

ALS Bottle#:

3

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

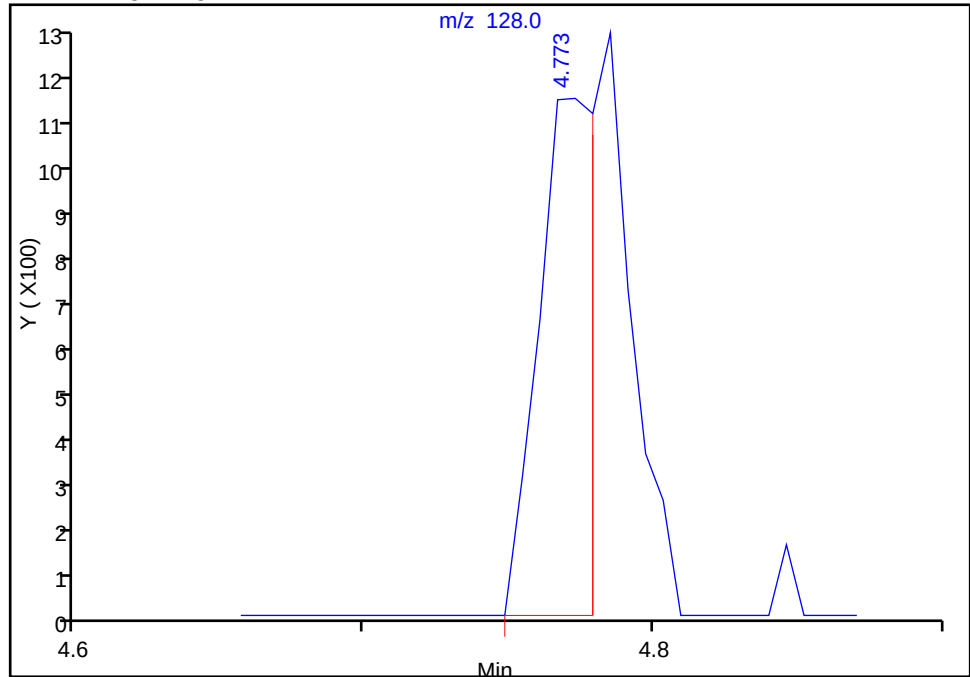
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

48 Chlorobromomethane, CAS: 74-97-5

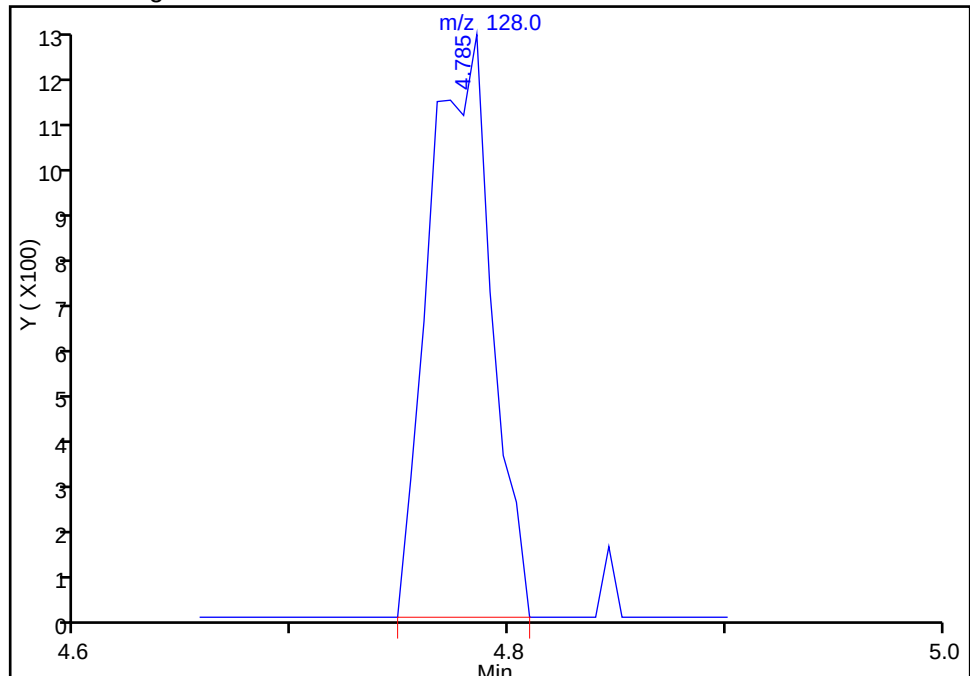
RT: 4.77
Response: 1559
Amount: 0.670901

Processing Integration Results



RT: 4.79
Response: 2497
Amount: 1.006825

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:17:10

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31250.D

Injection Date: 10-Jun-2014 15:30:30

Instrument ID: HP5973G

Lims ID: IC

Client ID:

Operator ID: RAS

ALS Bottle#:

3

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

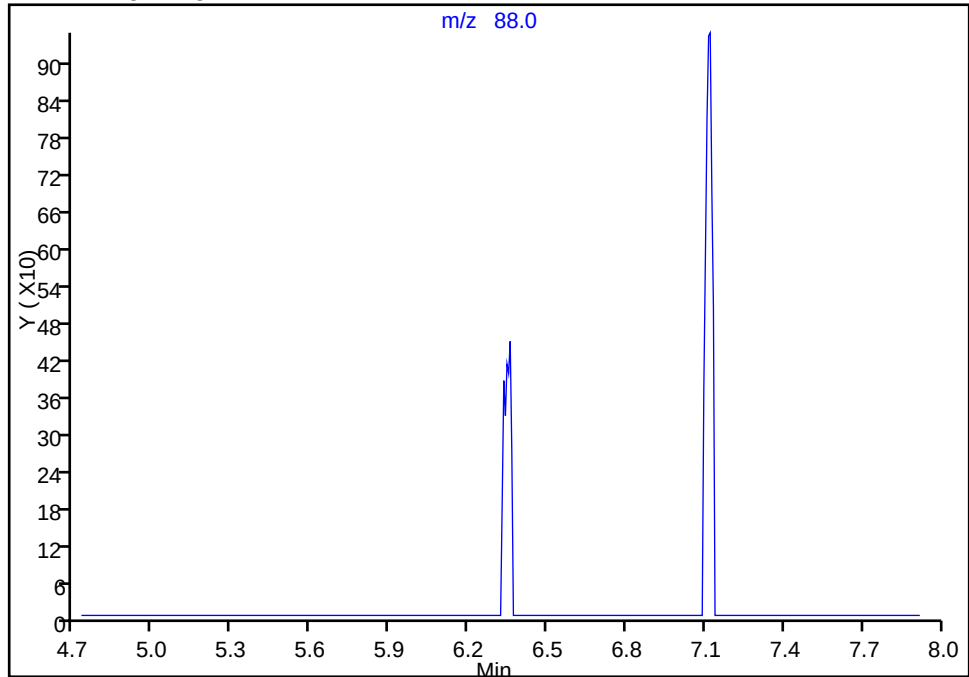
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Not Detected

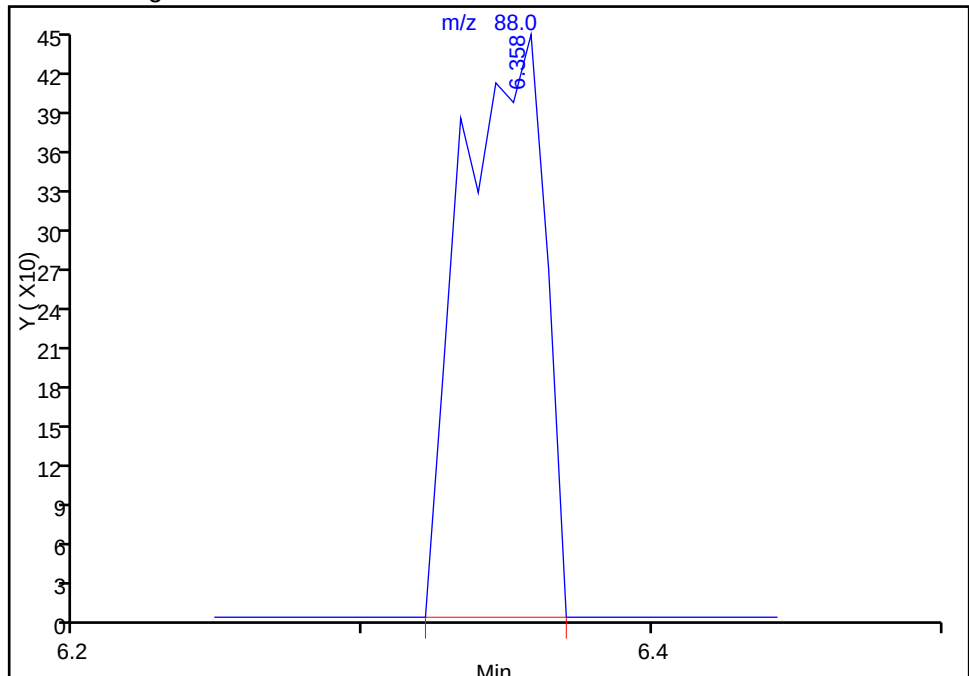
Expected RT: 6.32

Processing Integration Results



RT: 6.36
Response: 881
Amount: 16.285796

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:19:16

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31251.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 10-Jun-2014 15:53:30 ALS Bottle#: 4 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0032823-006 =480-0032823-006
 Operator ID: RAS Instrument ID: HP5973G
 Sublist: chrom-G-8260*sub20
 Method: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Jun-2014 09:21:43 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: sobolr

Date: 11-Jun-2014 09:21:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.602	5.596	0.006	98	105643	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	88	220907	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.967	10.973	-0.006	96	177079	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.005	5.005	0.000	82	110731	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.316	5.316	0.000	0	81982	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	498513	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	82	133657	25.0	24.8	
10 Dichlorodifluoromethane	85	1.420	1.426	-0.006	84	40302	5.00	4.91	
12 Chloromethane	50	1.579	1.579	0.000	100	34535	5.00	4.82	
13 Vinyl chloride	62	1.688	1.694	-0.006	98	32111	5.00	4.77	
144 Butadiene	54	1.719	1.719	0.000	94	27984	5.00	4.70	
14 Bromomethane	94	1.993	1.993	0.000	84	9898	5.00	5.11	
15 Chloroethane	64	2.115	2.121	-0.006	81	17990	5.00	5.01	
16 Dichlorofluoromethane	67	2.328	2.341	-0.013	80	24264	5.00	3.86	
17 Trichlorofluoromethane	101	2.353	2.353	0.000	90	32371	5.00	4.53	
18 Ethyl ether	59	2.621	2.621	0.000	89	21296	5.00	4.80	
19 Acrolein	56	2.780	2.786	-0.006	89	16723	25.0	25.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.877	2.871	0.006	45	26861	5.00	5.05	M
20 1,1-Dichloroethene	96	2.871	2.877	-0.006	89	31160	5.00	5.06	
22 Acetone	43	2.944	2.938	0.006	98	44734	25.0	23.7	
23 Iodomethane	142	3.029	3.042	-0.013	97	35761	5.00	5.06	
24 Carbon disulfide	76	3.072	3.072	0.000	98	83560	5.00	4.87	
26 3-Chloro-1-propene	41	3.200	3.200	0.000	85	43171	5.00	5.07	
28 Methyl acetate	43	3.249	3.243	0.006	95	104497	25.0	24.7	
29 Methylene Chloride	84	3.389	3.383	0.006	80	37528	5.00	5.11	
30 2-Methyl-2-propanol	59	3.505	3.505	0.000	96	35673	50.0	48.0	
31 Methyl tert-butyl ether	73	3.572	3.572	0.000	88	86413	5.00	4.95	
32 trans-1,2-Dichloroethene	96	3.578	3.578	0.000	92	25838	5.00	4.97	
33 Acrylonitrile	53	3.609	3.603	0.006	100	102389	50.0	48.8	
34 Hexane	57	3.798	3.792	0.006	95	33578	5.00	4.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.987	3.987	0.000	85	43991	5.00	4.83	
38 Vinyl acetate	43	4.048	4.041	0.007	97	102717	10.0	9.84	
42 2,2-Dichloropropane	77	4.511	4.517	-0.006	84	22833	5.00	5.06	
43 cis-1,2-Dichloroethene	96	4.541	4.541	0.000	71	26617	5.00	4.97	
44 2-Butanone (MEK)	43	4.578	4.572	0.006	100	66046	25.0	25.1	
48 Chlorobromomethane	128	4.779	4.773	0.006	94	12066	5.00	4.89	
49 Tetrahydrofuran	42	4.822	4.810	0.012	84	18366	10.0	9.64	
50 Chloroform	85	4.852	4.852	0.000	80	28123	5.00	4.84	
51 1,1,1-Trichloroethane	97	4.980	4.980	0.000	89	32366	5.00	4.80	
52 Cyclohexane	56	5.005	5.005	0.000	45	45578	5.00	4.76	
53 Carbon tetrachloride	117	5.127	5.127	0.000	74	29634	5.00	4.79	
54 1,1-Dichloropropene	75	5.139	5.133	0.006	92	31671	5.00	4.76	
55 Isobutyl alcohol	43	5.322	5.322	0.000	91	34232	125.0	117.2	
56 Benzene	78	5.334	5.334	0.000	96	105160	5.00	5.05	
57 1,2-Dichloroethane	62	5.389	5.389	0.000	92	39377	5.00	4.95	
59 n-Heptane	43	5.535	5.535	0.000	93	33313	5.00	4.79	
61 Trichloroethene	95	5.944	5.944	0.000	92	26155	5.00	5.08	
62 Methylcyclohexane	83	6.084	6.084	0.000	90	42191	5.00	4.90	
63 1,2-Dichloropropane	63	6.175	6.175	0.000	87	25200	5.00	4.98	
65 Dibromomethane	93	6.309	6.309	0.000	87	15207	5.00	4.89	
66 1,4-Dioxane	88	6.340	6.322	0.018	64	4787	100.0	87.6	M
67 Dichlorobromomethane	83	6.462	6.462	0.000	90	29428	5.00	4.55	
70 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	89	16904	5.00	4.80	
72 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	85	39172	5.00	4.72	
73 4-Methyl-2-pentanone (MIBK)	43	7.023	7.016	0.007	95	139657	25.0	24.9	
74 Toluene	92	7.181	7.181	0.000	97	66986	5.00	4.94	
76 trans-1,3-Dichloropropene	75	7.443	7.443	0.000	91	33740	5.00	4.60	
78 Ethyl methacrylate	69	7.498	7.498	0.000	87	35018	5.00	4.74	
79 1,1,2-Trichloroethane	83	7.632	7.632	0.000	89	18218	5.00	4.91	
80 Tetrachloroethene	166	7.724	7.724	0.000	86	24780	5.00	5.05	
81 1,3-Dichloropropane	76	7.797	7.797	0.000	94	42858	5.00	5.04	
82 2-Hexanone	43	7.864	7.858	0.006	96	99439	25.0	24.9	
83 Chlorodibromomethane	129	8.035	8.035	0.000	85	18228	5.00	4.40	
84 Ethylene Dibromide	107	8.138	8.144	-0.006	97	21699	5.00	4.83	
86 Chlorobenzene	112	8.626	8.626	0.000	91	73142	5.00	5.10	
88 1,1,1,2-Tetrachloroethane	131	8.723	8.723	0.000	84	20186	5.00	4.69	
89 Ethylbenzene	91	8.723	8.723	0.000	99	126229	5.00	5.01	
90 m-Xylene & p-Xylene	106	8.845	8.845	0.000	0	48187	5.00	4.88	
91 o-Xylene	106	9.272	9.272	0.000	97	46133	5.00	4.84	
92 Styrene	104	9.297	9.297	0.000	95	78313	5.00	4.76	
93 Bromoform	173	9.534	9.534	0.000	89	9087	5.00	5.92	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	122801	5.00	5.04	
97 Bromobenzene	156	9.992	9.992	0.000	97	27086	5.00	5.01	
98 1,1,2,2-Tetrachloroethane	83	10.022	10.022	0.000	80	29001	5.00	4.92	
99 1,2,3-Trichloropropane	110	10.059	10.059	0.000	71	9729	5.00	4.90	
100 trans-1,4-Dichloro-2-buten	53	10.071	10.071	0.000	36	8597	5.00	4.53	
101 N-Propylbenzene	91	10.077	10.077	0.000	99	147112	5.00	5.07	
102 2-Chlorotoluene	126	10.174	10.174	0.000	94	27806	5.00	5.09	
104 1,3,5-Trimethylbenzene	105	10.248	10.248	0.000	94	106365	5.00	5.08	
105 4-Chlorotoluene	126	10.284	10.284	0.000	91	27948	5.00	4.93	
106 tert-Butylbenzene	134	10.565	10.565	0.000	90	22326	5.00	5.05	
107 1,2,4-Trimethylbenzene	105	10.619	10.619	0.000	98	111213	5.00	5.07	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.772	10.778	-0.006	94	129850	5.00	4.99	
110 1,3-Dichlorobenzene	146	10.906	10.906	0.000	95	55567	5.00	5.13	
111 4-Isopropyltoluene	119	10.912	10.912	0.000	97	113505	5.00	5.08	
113 1,4-Dichlorobenzene	146	10.991	10.991	0.000	90	56909	5.00	5.07	
115 n-Butylbenzene	91	11.296	11.296	0.000	97	101460	5.00	4.94	
116 1,2-Dichlorobenzene	146	11.339	11.345	-0.006	93	53295	5.00	4.99	
117 1,2-Dibromo-3-Chloropropan	75	12.058	12.058	0.000	49	5961	5.00	4.62	
119 1,2,4-Trichlorobenzene	180	12.747	12.747	0.000	92	37980	5.00	4.87	
120 Hexachlorobutadiene	225	12.863	12.863	0.000	91	15587	5.00	4.77	
121 Naphthalene	128	12.954	12.954	0.000	97	108923	5.00	4.81	
122 1,2,3-Trichlorobenzene	180	13.162	13.162	0.000	93	36425	5.00	4.85	
S 123 Total BTEX	1				0			24.7	
S 124 Xylenes, Total	1				0			9.72	
S 125 1,2-Dichloroethene, Total	1				0			9.94	
S 126 1,3-Dichloropropene, Total	1				0			9.33	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31251.D

Injection Date: 10-Jun-2014 15:53:30

Instrument ID: HP5973G

Operator ID: RAS

Lims ID: IC 2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

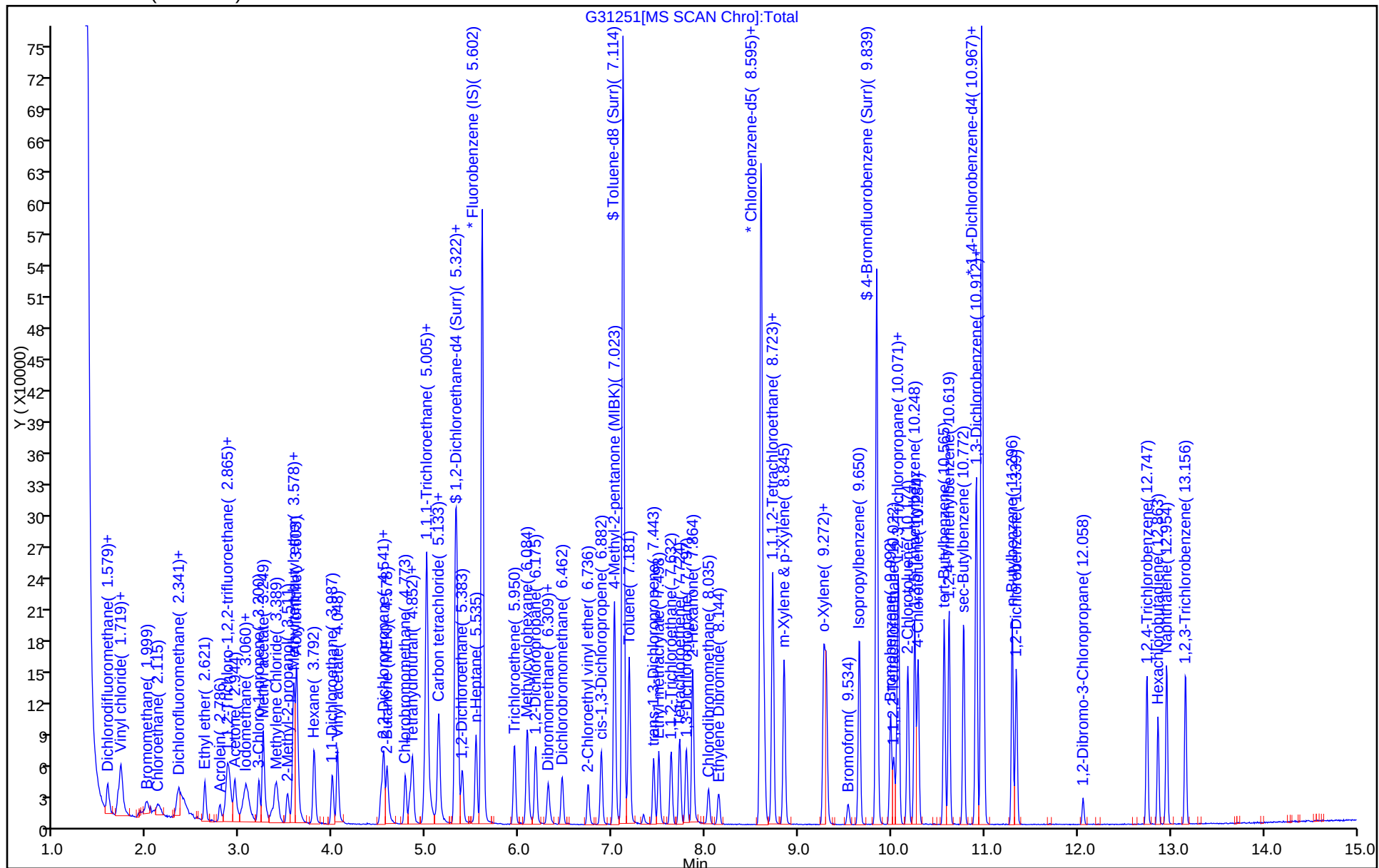
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31251.D

Injection Date: 10-Jun-2014 15:53:30

Instrument ID: HP5973G

Lims ID: IC 2

Client ID:

Operator ID: RAS

ALS Bottle#:

4

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

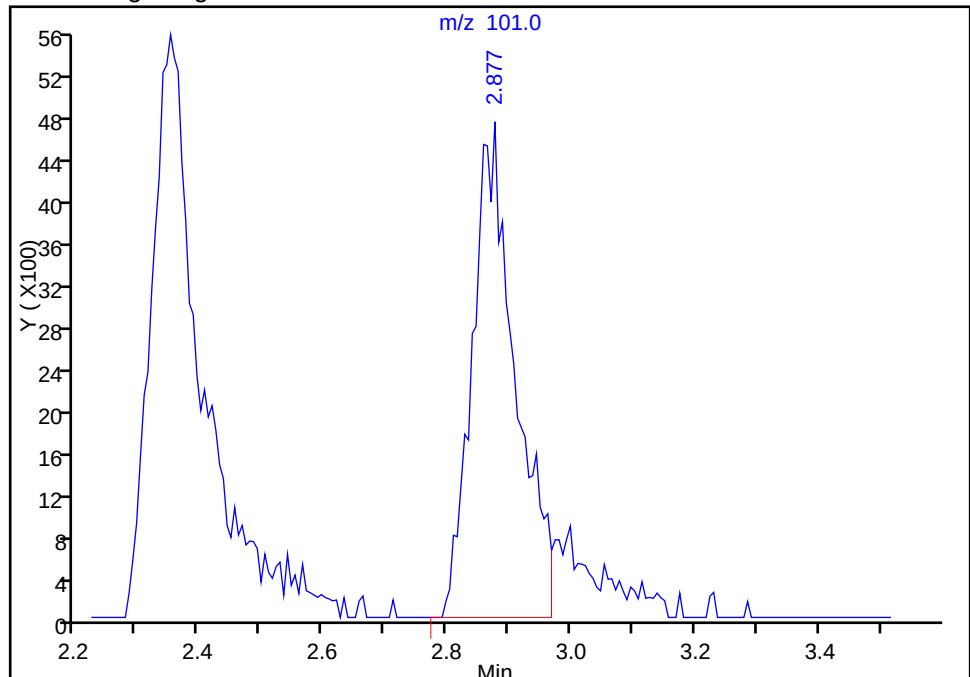
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

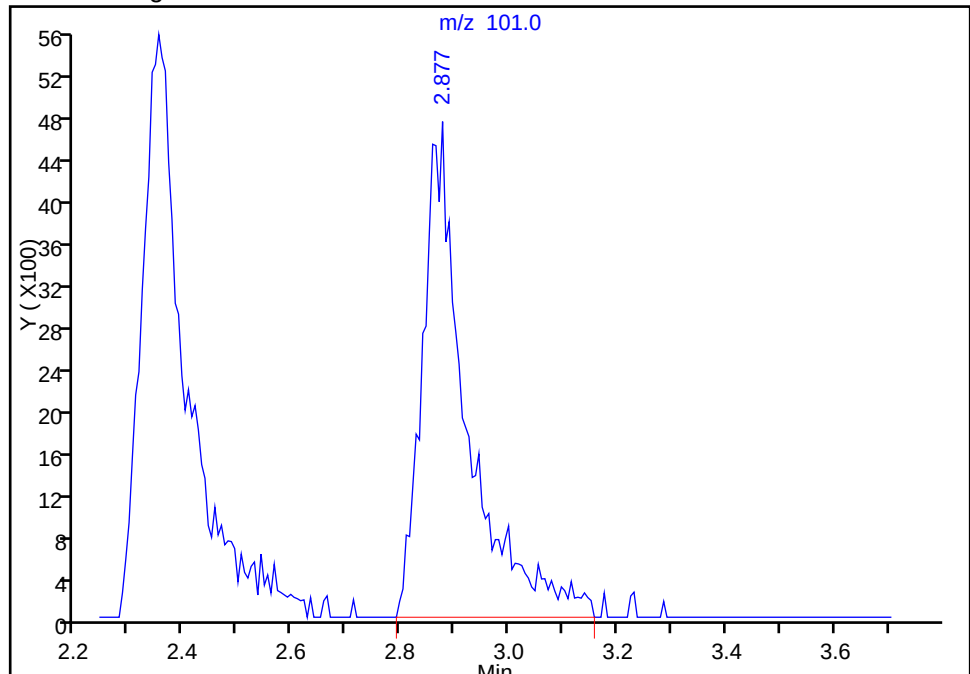
RT: 2.88
Response: 22686
Amount: 4.377461

Processing Integration Results



RT: 2.88
Response: 26861
Amount: 5.047520

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:21:43

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31251.D

Injection Date: 10-Jun-2014 15:53:30

Instrument ID: HP5973G

Lims ID: IC 2

Client ID:

Operator ID: RAS

ALS Bottle#:

4

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

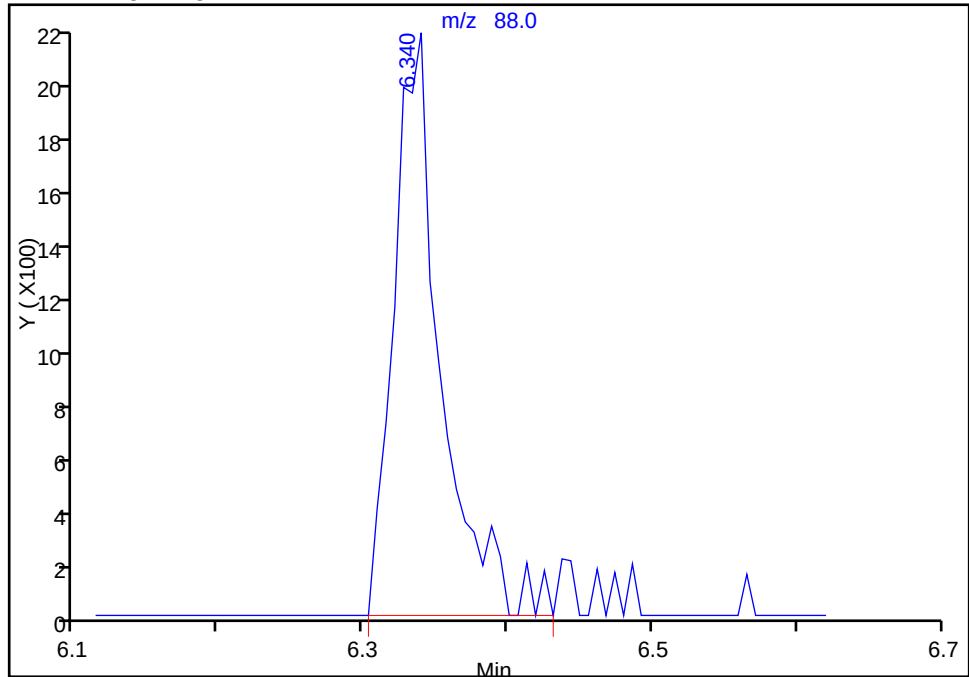
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

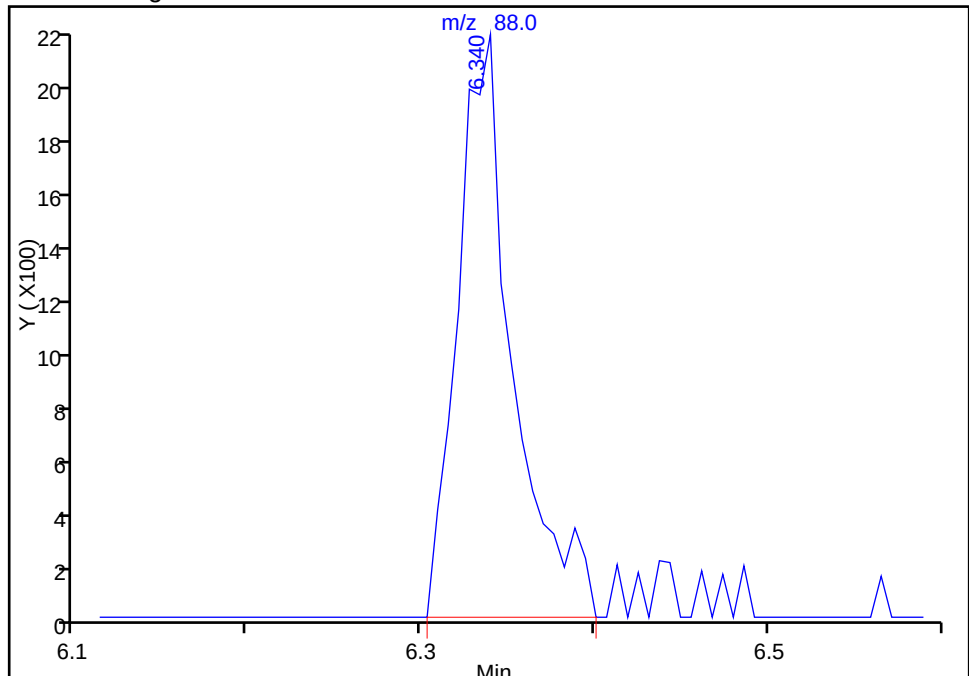
RT: 6.34
Response: 4920
Amount: 89.716402

Processing Integration Results



RT: 6.34
Response: 4787
Amount: 87.645413

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:20:48

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31252.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 10-Jun-2014 16:16:30 ALS Bottle#: 5 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0032823-007 =480-0032823-007
 Operator ID: RAS Instrument ID: HP5973G
 Sublist: chrom-G-8260*sub20
 Method: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Jun-2014 09:24:32 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: sobolr

Date: 11-Jun-2014 09:24:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.602	5.602	0.000	98	104782	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	88	223184	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.967	10.967	0.000	91	179088	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.005	5.005	0.000	82	112266	25.0	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.316	5.316	0.000	0	83664	25.0	25.9	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	504162	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	82	135410	25.0	24.9	
10 Dichlorodifluoromethane	85	1.432	1.432	0.000	85	85050	10.0	10.4	
12 Chloromethane	50	1.578	1.578	0.000	88	72226	10.0	10.2	
13 Vinyl chloride	62	1.694	1.694	0.000	84	68968	10.0	10.3	
144 Butadiene	54	1.725	1.725	0.000	94	60575	10.0	10.3	
14 Bromomethane	94	1.993	1.993	0.000	88	18435	10.0	9.41	M
15 Chloroethane	64	2.121	2.121	0.000	98	35924	10.0	10.1	
16 Dichlorofluoromethane	67	2.334	2.334	0.000	80	58093	10.0	9.33	
17 Trichlorofluoromethane	101	2.347	2.347	0.000	73	70885	10.0	10.0	
18 Ethyl ether	59	2.621	2.621	0.000	90	41979	10.0	9.54	
19 Acrolein	56	2.786	2.786	0.000	90	30480	50.0	46.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.871	2.871	0.000	48	53202	10.0	10.1	
20 1,1-Dichloroethene	96	2.871	2.871	0.000	88	60724	10.0	9.94	
22 Acetone	43	2.944	2.944	0.000	98	87947	50.0	47.1	
23 Iodomethane	142	3.029	3.029	0.000	99	71209	10.0	10.2	
24 Carbon disulfide	76	3.066	3.066	0.000	99	162238	10.0	9.54	
26 3-Chloro-1-propene	41	3.200	3.200	0.000	81	78430	10.0	9.28	
28 Methyl acetate	43	3.243	3.243	0.000	96	205484	50.0	49.1	
29 Methylene Chloride	84	3.383	3.383	0.000	85	66101	10.0	9.76	
30 2-Methyl-2-propanol	59	3.511	3.511	0.000	98	67879	100.0	92.1	
31 Methyl tert-butyl ether	73	3.572	3.572	0.000	88	169612	10.0	9.80	
32 trans-1,2-Dichloroethene	96	3.578	3.578	0.000	94	49036	10.0	9.51	
33 Acrylonitrile	53	3.609	3.609	0.000	98	201596	100.0	96.9	
34 Hexane	57	3.798	3.798	0.000	93	68395	10.0	9.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.993	3.993	0.000	85	88005	10.0	9.74	
38 Vinyl acetate	43	4.041	4.041	0.000	97	199412	20.0	19.3	
42 2,2-Dichloropropane	77	4.517	4.517	0.000	90	44146	10.0	9.87	
43 cis-1,2-Dichloroethene	96	4.541	4.541	0.000	72	51224	10.0	9.64	
44 2-Butanone (MEK)	43	4.578	4.578	0.000	100	125730	50.0	48.1	
48 Chlorobromomethane	128	4.773	4.773	0.000	93	24154	10.0	9.86	
49 Tetrahydrofuran	42	4.822	4.822	0.000	83	35628	20.0	18.8	
50 Chloroform	85	4.852	4.852	0.000	81	55545	10.0	9.64	
51 1,1,1-Trichloroethane	97	4.980	4.980	0.000	92	64262	10.0	9.61	
52 Cyclohexane	56	5.005	5.005	0.000	60	93919	10.0	9.88	
53 Carbon tetrachloride	117	5.127	5.127	0.000	72	58418	10.0	9.51	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	93	64328	10.0	9.75	
55 Isobutyl alcohol	43	5.328	5.328	0.000	91	67531	250.0	233.1	
56 Benzene	78	5.334	5.334	0.000	97	202280	10.0	9.80	
57 1,2-Dichloroethane	62	5.389	5.389	0.000	90	75035	10.0	9.52	
59 n-Heptane	43	5.535	5.535	0.000	90	64211	10.0	9.32	
61 Trichloroethene	95	5.950	5.950	0.000	93	48662	10.0	9.53	
62 Methylcyclohexane	83	6.084	6.084	0.000	90	81823	10.0	9.57	
63 1,2-Dichloropropane	63	6.175	6.175	0.000	88	48657	10.0	9.70	
65 Dibromomethane	93	6.309	6.309	0.000	88	29713	10.0	9.64	
66 1,4-Dioxane	88	6.328	6.328	0.000	91	11825	200.0	214.3	
67 Dichlorobromomethane	83	6.462	6.462	0.000	91	59659	10.0	9.30	
70 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	94	33268	10.0	9.52	
72 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	88	77094	10.0	9.37	
73 4-Methyl-2-pentanone (MIBK)	43	7.022	7.022	0.000	96	273768	50.0	48.4	
74 Toluene	92	7.181	7.181	0.000	99	131438	10.0	9.60	
76 trans-1,3-Dichloropropene	75	7.443	7.443	0.000	92	69006	10.0	9.32	
78 Ethyl methacrylate	69	7.498	7.498	0.000	89	70096	10.0	9.39	
79 1,1,2-Trichloroethane	83	7.632	7.632	0.000	88	35697	10.0	9.52	
80 Tetrachloroethene	166	7.724	7.724	0.000	90	47913	10.0	9.66	
81 1,3-Dichloropropane	76	7.797	7.797	0.000	92	80070	10.0	9.32	
82 2-Hexanone	43	7.858	7.858	0.000	96	193761	50.0	48.0	
83 Chlorodibromomethane	129	8.034	8.034	0.000	88	36655	10.0	8.76	
84 Ethylene Dibromide	107	8.144	8.144	0.000	96	42263	10.0	9.31	
86 Chlorobenzene	112	8.626	8.626	0.000	91	137110	10.0	9.46	
88 1,1,1,2-Tetrachloroethane	131	8.723	8.723	0.000	85	39725	10.0	9.13	
89 Ethylbenzene	91	8.723	8.723	0.000	99	243994	10.0	9.59	
90 m-Xylene & p-Xylene	106	8.845	8.845	0.000	0	94828	10.0	9.50	
91 o-Xylene	106	9.272	9.272	0.000	98	92082	10.0	9.56	
92 Styrene	104	9.296	9.296	0.000	94	156946	10.0	9.44	
93 Bromoform	173	9.534	9.534	0.000	93	19453	10.0	9.23	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	242134	10.0	9.83	
97 Bromobenzene	156	9.991	9.991	0.000	96	51350	10.0	9.40	
98 1,1,2,2-Tetrachloroethane	83	10.022	10.022	0.000	82	57223	10.0	9.60	
99 1,2,3-Trichloropropane	110	10.058	10.058	0.000	81	19110	10.0	9.51	
100 trans-1,4-Dichloro-2-buten	53	10.071	10.071	0.000	53	17958	10.0	9.35	
101 N-Propylbenzene	91	10.077	10.077	0.000	99	287509	10.0	9.80	
102 2-Chlorotoluene	126	10.174	10.174	0.000	95	54062	10.0	9.79	
104 1,3,5-Trimethylbenzene	105	10.247	10.247	0.000	91	209595	10.0	9.89	
105 4-Chlorotoluene	126	10.284	10.284	0.000	97	55069	10.0	9.60	
106 tert-Butylbenzene	134	10.564	10.564	0.000	91	43804	10.0	9.79	
107 1,2,4-Trimethylbenzene	105	10.619	10.619	0.000	97	218329	10.0	9.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.772	10.772	0.000	95	259338	10.0	9.85	
110 1,3-Dichlorobenzene	146	10.906	10.906	0.000	95	106211	10.0	9.69	
111 4-Isopropyltoluene	119	10.912	10.912	0.000	97	220657	10.0	9.77	
113 1,4-Dichlorobenzene	146	10.991	10.991	0.000	91	106930	10.0	9.41	
115 n-Butylbenzene	91	11.296	11.296	0.000	97	203138	10.0	9.77	
116 1,2-Dichlorobenzene	146	11.339	11.339	0.000	93	103855	10.0	9.62	
117 1,2-Dibromo-3-Chloropropan	75	12.058	12.058	0.000	62	11525	10.0	8.83	
119 1,2,4-Trichlorobenzene	180	12.747	12.747	0.000	93	74706	10.0	9.48	
120 Hexachlorobutadiene	225	12.863	12.863	0.000	91	29963	10.0	9.07	
121 Naphthalene	128	12.954	12.954	0.000	97	215380	10.0	9.40	
122 1,2,3-Trichlorobenzene	180	13.162	13.162	0.000	94	71043	10.0	9.35	
S 125 1,2-Dichloroethene, Total	1				0			19.2	
S 126 1,3-Dichloropropene, Total	1				0			18.7	
S 123 Total BTEX	1				0			48.0	
S 124 Xylenes, Total	1				0			19.1	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31252.D

Injection Date: 10-Jun-2014 16:16:30

Instrument ID: HP5973G

Operator ID: RAS

Lims ID: IC 3

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

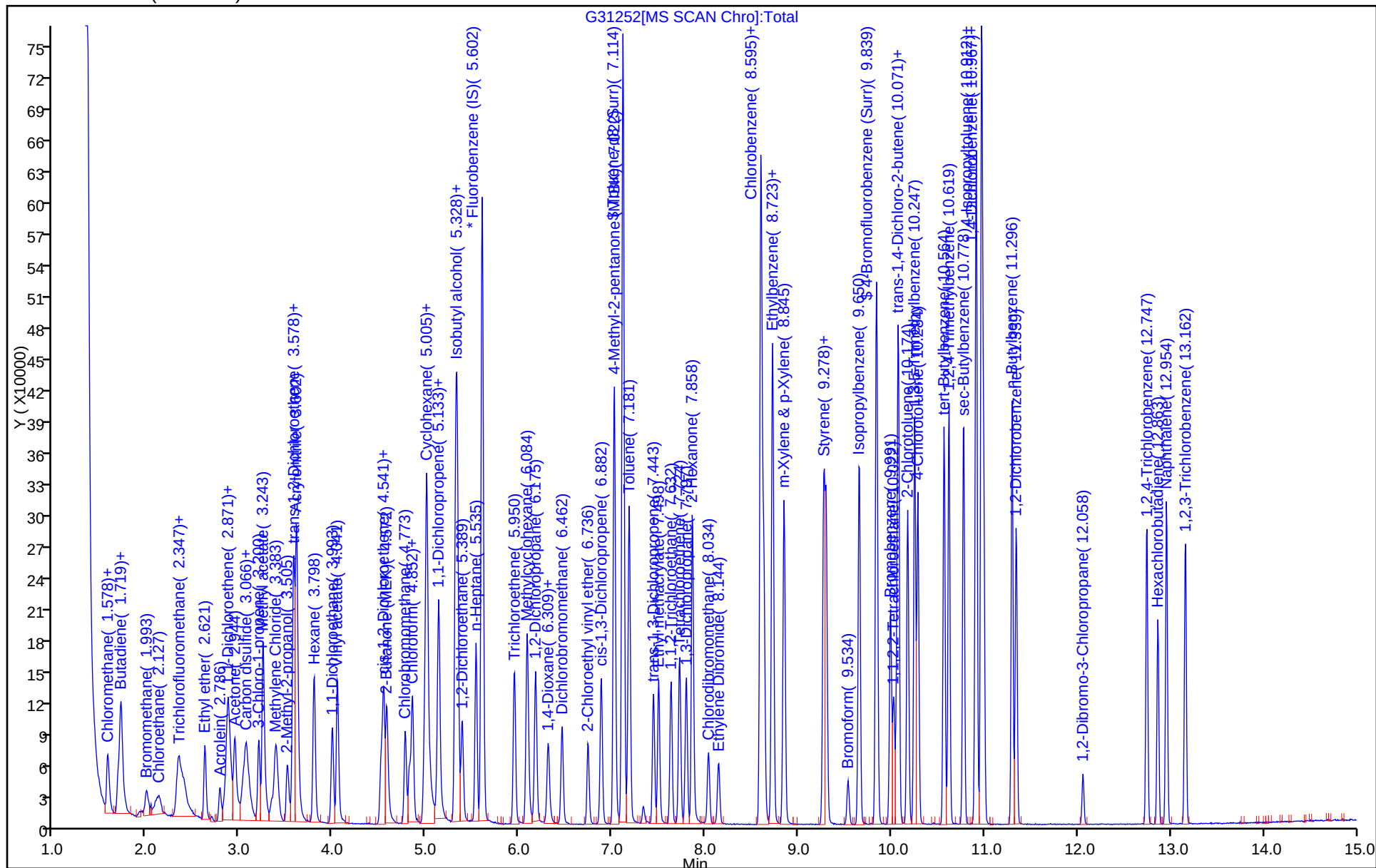
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31252.D

Injection Date: 10-Jun-2014 16:16:30

Instrument ID: HP5973G

Lims ID: IC 3

Client ID:

Operator ID: RAS

ALS Bottle#:

5

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

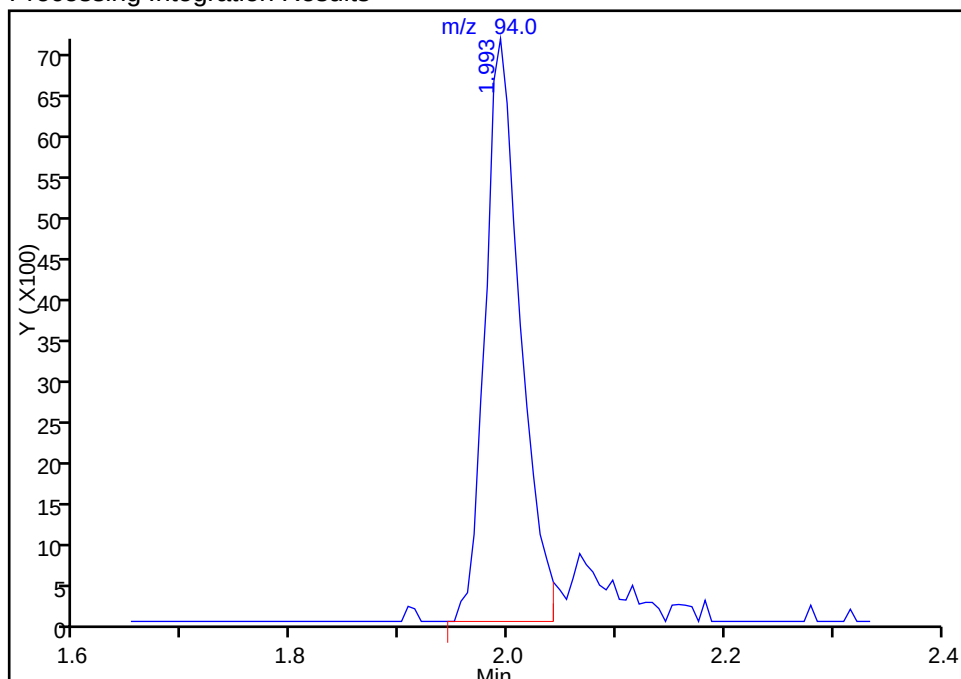
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

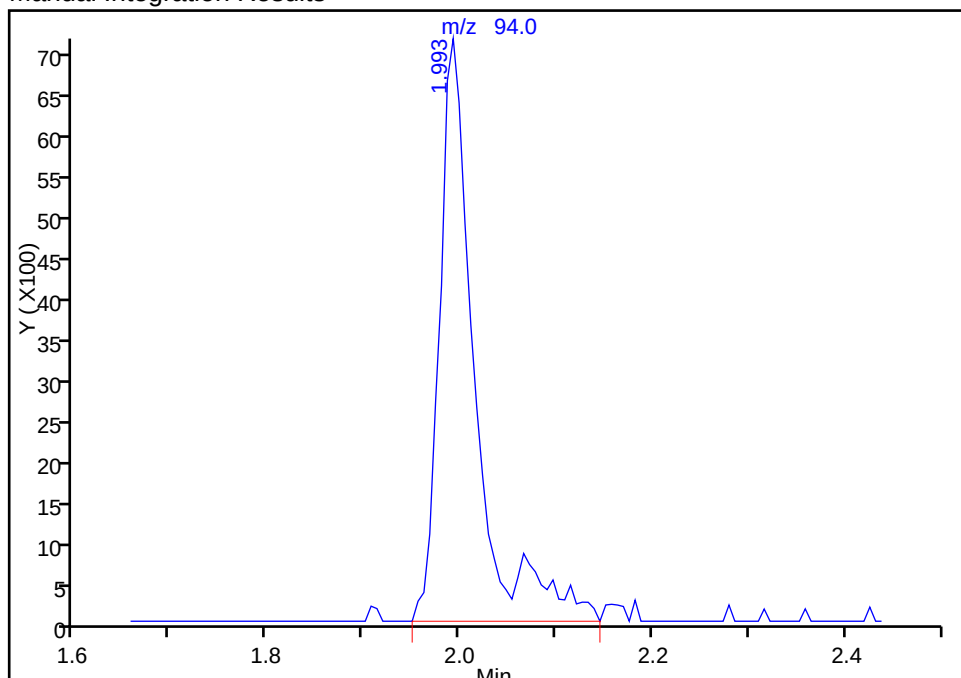
RT: 1.99
Response: 16066
Amount: 8.365090

Processing Integration Results



RT: 1.99
Response: 18435
Amount: 9.405207

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:24:32

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31253.D
 Lims ID: ICIS 4
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 10-Jun-2014 16:39:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 4
 Misc. Info.: 480-0032823-008 =480-0032823-008
 Operator ID: RAS Instrument ID: HP5973G
 Sublist: chrom-G-8260*sub20
 Method: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Jun-2014 09:24:42 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: sobolr

Date: 11-Jun-2014 09:14:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.596	5.596	0.000	97	108741	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	88	223878	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.973	10.973	0.000	75	183642	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.005	5.005	0.000	79	114629	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.316	5.316	0.000	0	82040	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	92	508503	25.0	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	81	137349	25.0	25.2	
10 Dichlorodifluoromethane	85	1.426	1.426	0.000	87	196995	25.0	23.3	
12 Chloromethane	50	1.579	1.579	0.000	89	180873	25.0	24.5	
13 Vinyl chloride	62	1.694	1.694	0.000	83	169386	25.0	24.4	
144 Butadiene	54	1.719	1.719	0.000	92	145083	25.0	23.7	
14 Bromomethane	94	1.993	1.993	0.000	90	46003	25.0	22.6	
15 Chloroethane	64	2.121	2.121	0.000	94	86541	25.0	23.4	
16 Dichlorofluoromethane	67	2.341	2.341	0.000	97	165290	25.0	25.6	
17 Trichlorofluoromethane	101	2.353	2.353	0.000	74	180832	25.0	24.6	
18 Ethyl ether	59	2.621	2.621	0.000	88	113004	25.0	24.7	
19 Acrolein	56	2.786	2.786	0.000	93	82965	125.0	121.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.871	2.871	0.000	50	120804	25.0	22.1	
20 1,1-Dichloroethene	96	2.877	2.877	0.000	89	148970	25.0	23.5	
22 Acetone	43	2.938	2.938	0.000	98	238736	125.0	123.1	
23 Iodomethane	142	3.042	3.042	0.000	98	187981	25.0	25.8	
24 Carbon disulfide	76	3.072	3.072	0.000	99	416426	25.0	23.6	
26 3-Chloro-1-propene	41	3.200	3.200	0.000	78	210713	25.0	24.0	
28 Methyl acetate	43	3.243	3.243	0.000	96	555023	125.0	127.7	
29 Methylene Chloride	84	3.383	3.383	0.000	82	166281	25.0	24.9	
30 2-Methyl-2-propanol	59	3.505	3.505	0.000	99	195109	250.0	255.0	
31 Methyl tert-butyl ether	73	3.572	3.572	0.000	85	456720	25.0	25.4	
32 trans-1,2-Dichloroethene	96	3.578	3.578	0.000	58	127425	25.0	23.8	
33 Acrylonitrile	53	3.603	3.603	0.000	98	542951	250.0	251.5	
34 Hexane	57	3.792	3.792	0.000	93	170420	25.0	23.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.987	3.987	0.000	86	228836	25.0	24.4	
38 Vinyl acetate	43	4.041	4.041	0.000	97	553652	50.0	51.5	
42 2,2-Dichloropropane	77	4.517	4.517	0.000	91	113575	25.0	24.5	
43 cis-1,2-Dichloroethene	96	4.541	4.541	0.000	70	135689	25.0	24.6	
44 2-Butanone (MEK)	43	4.572	4.572	0.000	94	351245	125.0	129.4	
48 Chlorobromomethane	128	4.773	4.773	0.000	93	62705	25.0	24.7	
49 Tetrahydrofuran	42	4.810	4.810	0.000	87	95453	50.0	48.7	
50 Chloroform	85	4.852	4.852	0.000	80	143914	25.0	24.1	
51 1,1,1-Trichloroethane	97	4.980	4.980	0.000	92	167647	25.0	24.2	
52 Cyclohexane	56	5.005	5.005	0.000	90	227585	25.0	23.1	
53 Carbon tetrachloride	117	5.127	5.127	0.000	73	150951	25.0	23.7	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	91	162960	25.0	23.8	
55 Isobutyl alcohol	43	5.322	5.322	0.000	78	196010	625.0	652.1	
56 Benzene	78	5.334	5.334	0.000	97	522066	25.0	24.4	
57 1,2-Dichloroethane	62	5.389	5.389	0.000	73	204674	25.0	25.0	
59 n-Heptane	43	5.535	5.535	0.000	89	160810	25.0	22.5	
61 Trichloroethene	95	5.944	5.944	0.000	91	129274	25.0	24.4	
62 Methylcyclohexane	83	6.084	6.084	0.000	90	202481	25.0	22.8	
63 1,2-Dichloropropane	63	6.175	6.175	0.000	90	129939	25.0	25.0	
65 Dibromomethane	93	6.309	6.309	0.000	89	77682	25.0	24.3	
66 1,4-Dioxane	88	6.322	6.322	0.000	54	31746	500.0	573.5	
67 Dichlorobromomethane	83	6.462	6.462	0.000	93	168438	25.0	25.3	
70 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	93	91485	25.0	25.2	
72 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	88	219574	25.0	25.7	
73 4-Methyl-2-pentanone (MIBK)	43	7.016	7.016	0.000	96	741257	125.0	130.6	
74 Toluene	92	7.181	7.181	0.000	94	339809	25.0	24.7	
76 trans-1,3-Dichloropropene	75	7.443	7.443	0.000	92	193140	25.0	26.0	
78 Ethyl methacrylate	69	7.498	7.498	0.000	71	196159	25.0	26.2	
79 1,1,2-Trichloroethane	83	7.632	7.632	0.000	87	96168	25.0	25.6	
80 Tetrachloroethene	166	7.724	7.724	0.000	88	120878	25.0	24.3	
81 1,3-Dichloropropane	76	7.797	7.797	0.000	91	220314	25.0	25.6	
82 2-Hexanone	43	7.858	7.858	0.000	96	531299	125.0	131.2	
83 Chlorodibromomethane	129	8.035	8.035	0.000	89	110083	25.0	26.2	
84 Ethylene Dibromide	107	8.144	8.144	0.000	97	117655	25.0	25.8	
86 Chlorobenzene	112	8.626	8.626	0.000	92	360971	25.0	24.8	
88 1,1,1,2-Tetrachloroethane	131	8.723	8.723	0.000	38	112144	25.0	25.7	
89 Ethylbenzene	91	8.723	8.723	0.000	99	633271	25.0	24.8	
90 m-Xylene & p-Xylene	106	8.845	8.845	0.000	0	244594	25.0	24.4	
91 o-Xylene	106	9.272	9.272	0.000	98	242192	25.0	25.1	
92 Styrene	104	9.297	9.297	0.000	95	423587	25.0	25.4	
93 Bromoform	173	9.534	9.534	0.000	94	60683	25.0	22.4	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	630478	25.0	25.0	
97 Bromobenzene	156	9.992	9.992	0.000	97	138590	25.0	24.7	
98 1,1,2,2-Tetrachloroethane	83	10.022	10.022	0.000	86	158921	25.0	26.0	
99 1,2,3-Trichloropropane	110	10.059	10.059	0.000	62	53355	25.0	25.9	
100 trans-1,4-Dichloro-2-buten	53	10.071	10.071	0.000	34	51909	25.0	26.4	
101 N-Propylbenzene	91	10.077	10.077	0.000	98	746142	25.0	24.8	
102 2-Chlorotoluene	126	10.174	10.174	0.000	94	141292	25.0	25.0	
104 1,3,5-Trimethylbenzene	105	10.248	10.248	0.000	92	549569	25.0	25.3	
105 4-Chlorotoluene	126	10.284	10.284	0.000	89	148611	25.0	25.3	
106 tert-Butylbenzene	134	10.565	10.565	0.000	91	113122	25.0	24.7	
107 1,2,4-Trimethylbenzene	105	10.619	10.619	0.000	69	570774	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.778	0.000	95	665671	25.0	24.7	
110 1,3-Dichlorobenzene	146	10.906	10.906	0.000	82	279625	25.0	24.9	
111 4-Isopropyltoluene	119	10.912	10.912	0.000	96	576459	25.0	24.9	
113 1,4-Dichlorobenzene	146	10.991	10.991	0.000	92	292553	25.0	25.1	
115 n-Butylbenzene	91	11.296	11.296	0.000	98	528080	25.0	24.8	
116 1,2-Dichlorobenzene	146	11.345	11.345	0.000	90	277446	25.0	25.1	
117 1,2-Dibromo-3-Chloropropan	75	12.058	12.058	0.000	69	35220	25.0	26.3	
119 1,2,4-Trichlorobenzene	180	12.747	12.747	0.000	92	200763	25.0	24.8	
120 Hexachlorobutadiene	225	12.863	12.863	0.000	95	78709	25.0	23.2	
121 Naphthalene	128	12.954	12.954	0.000	98	601815	25.0	25.6	
122 1,2,3-Trichlorobenzene	180	13.162	13.162	0.000	93	192748	25.0	24.7	
S 125 1,2-Dichloroethene, Total	1				0			48.4	
S 126 1,3-Dichloropropene, Total	1				0			51.7	
S 123 Total BTEX	1				0			123.4	
S 124 Xylenes, Total	1				0			49.5	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31253.D

Injection Date: 10-Jun-2014 16:39:30

Instrument ID: HP5973G

Operator ID: RAS

Lims ID: ICIS 4

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

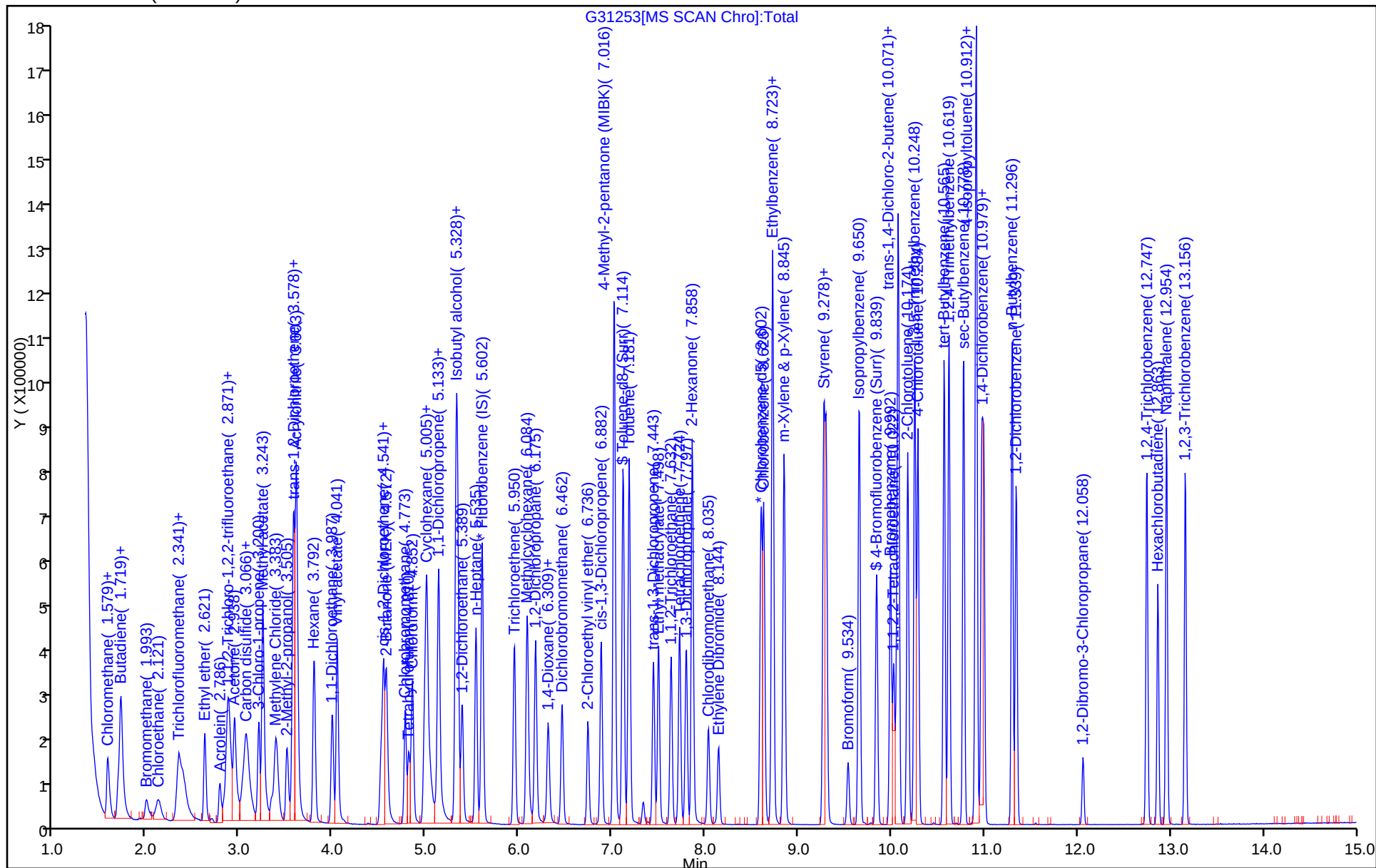
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31254.D
 Lims ID: IC 5
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 10-Jun-2014 17:02:30 ALS Bottle#: 7 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 5
 Misc. Info.: 480-0032823-009 =480-0032823-009
 Operator ID: RAS Instrument ID: HP5973G
 Sublist: chrom-G-8260*sub20
 Method: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Jun-2014 09:26:20 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: sobolr

Date: 11-Jun-2014 09:26:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.602	5.596	0.006	98	110277	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	87	226502	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.973	10.973	0.000	69	189426	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.005	5.005	0.000	56	115990	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.316	5.316	0.000	0	84157	25.0	24.8	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	513118	25.0	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	82	138999	25.0	25.2	
10 Dichlorodifluoromethane	85	1.426	1.426	0.000	88	418561	50.0	48.9	
12 Chloromethane	50	1.578	1.579	-0.001	89	380327	50.0	50.8	
13 Vinyl chloride	62	1.700	1.694	0.006	84	353008	50.0	50.2	
144 Butadiene	54	1.719	1.719	0.000	95	306656	50.0	49.3	
14 Bromomethane	94	1.993	1.993	0.000	92	100470	50.0	48.7	
15 Chloroethane	64	2.127	2.121	0.006	95	175441	50.0	46.8	
16 Dichlorofluoromethane	67	2.340	2.341	-0.001	82	373458	50.0	57.0	
17 Trichlorofluoromethane	101	2.353	2.353	0.000	84	400211	50.0	53.7	
18 Ethyl ether	59	2.621	2.621	0.000	90	229713	50.0	49.6	
19 Acrolein	56	2.779	2.786	-0.007	95	167645	250.0	241.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.877	2.871	0.006	52	276716	50.0	49.8	
20 1,1-Dichloroethene	96	2.871	2.877	-0.006	87	321473	50.0	50.0	
22 Acetone	43	2.938	2.938	0.000	99	478733	250.0	243.4	
23 Iodomethane	142	3.035	3.042	-0.007	98	376324	50.0	51.0	
24 Carbon disulfide	76	3.072	3.072	0.000	100	894549	50.0	50.0	
26 3-Chloro-1-propene	41	3.200	3.200	0.000	82	443168	50.0	49.8	
28 Methyl acetate	43	3.243	3.243	0.000	95	1119583	250.0	254.0	
29 Methylene Chloride	84	3.383	3.383	0.000	85	335500	50.0	50.4	
30 2-Methyl-2-propanol	59	3.499	3.505	-0.006	99	412214	500.0	531.2	
31 Methyl tert-butyl ether	73	3.566	3.572	-0.006	91	922460	50.0	50.6	
32 trans-1,2-Dichloroethene	96	3.578	3.578	0.000	90	268801	50.0	49.5	
33 Acrylonitrile	53	3.602	3.603	-0.001	98	1084316	500.0	495.3	
34 Hexane	57	3.798	3.792	0.006	93	374103	50.0	50.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.993	3.987	0.006	85	474278	50.0	49.9	
38 Vinyl acetate	43	4.041	4.041	0.000	97	1140145	100.0	104.6	
42 2,2-Dichloropropane	77	4.517	4.517	0.000	90	238100	50.0	50.6	
43 cis-1,2-Dichloroethene	96	4.541	4.541	0.000	71	279357	50.0	50.0	
44 2-Butanone (MEK)	43	4.572	4.572	0.000	100	715495	250.0	260.0	
48 Chlorobromomethane	128	4.773	4.773	0.000	94	132194	50.0	51.3	
49 Tetrahydrofuran	42	4.810	4.810	0.000	86	194858	100.0	98.0	
50 Chloroform	85	4.852	4.852	0.000	81	300869	50.0	49.6	
51 1,1,1-Trichloroethane	97	4.980	4.980	0.000	92	362222	50.0	51.5	
52 Cyclohexane	56	5.005	5.005	0.000	91	506748	50.0	50.7	
53 Carbon tetrachloride	117	5.127	5.127	0.000	82	338457	50.0	52.4	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	94	351598	50.0	50.6	
55 Isobutyl alcohol	43	5.322	5.322	0.000	92	409148	1250.0	1342.1	
56 Benzene	78	5.334	5.334	0.000	97	1079415	50.0	49.7	
57 1,2-Dichloroethane	62	5.389	5.389	0.000	82	417767	50.0	50.3	
59 n-Heptane	43	5.535	5.535	0.000	91	350786	50.0	48.4	
61 Trichloroethene	95	5.943	5.944	-0.001	94	267707	50.0	49.8	
62 Methylcyclohexane	83	6.084	6.084	0.000	91	454134	50.0	50.5	
63 1,2-Dichloropropane	63	6.175	6.175	0.000	90	270311	50.0	51.2	
65 Dibromomethane	93	6.309	6.309	0.000	91	164652	50.0	50.8	
66 1,4-Dioxane	88	6.321	6.322	-0.001	90	66944	1000.0	1173.1	M
67 Dichlorobromomethane	83	6.462	6.462	0.000	93	361332	50.0	53.5	
70 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	92	192725	50.0	52.4	
72 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	89	465152	50.0	53.7	
73 4-Methyl-2-pentanone (MIBK)	43	7.016	7.016	0.000	96	1495811	250.0	260.6	
74 Toluene	92	7.181	7.181	0.000	98	706177	50.0	50.8	
76 trans-1,3-Dichloropropene	75	7.443	7.443	0.000	92	417362	50.0	55.5	
78 Ethyl methacrylate	69	7.498	7.498	0.000	89	407749	50.0	53.8	
79 1,1,2-Trichloroethane	83	7.632	7.632	0.000	87	196718	50.0	51.7	
80 Tetrachloroethene	166	7.724	7.724	0.000	88	256319	50.0	50.9	
81 1,3-Dichloropropane	76	7.797	7.797	0.000	93	451343	50.0	51.8	
82 2-Hexanone	43	7.858	7.858	0.000	96	1076109	250.0	262.7	
83 Chlorodibromomethane	129	8.034	8.035	-0.001	89	245369	50.0	57.8	
84 Ethylene Dibromide	107	8.138	8.144	-0.006	98	241143	50.0	52.3	
86 Chlorobenzene	112	8.626	8.626	0.000	92	756152	50.0	51.4	
88 1,1,1,2-Tetrachloroethane	131	8.723	8.723	0.000	87	239788	50.0	54.3	
89 Ethylbenzene	91	8.723	8.723	0.000	99	1313467	50.0	50.9	
90 m-Xylene & p-Xylene	106	8.845	8.845	0.000	0	519676	50.0	51.3	
91 o-Xylene	106	9.272	9.272	0.000	98	505499	50.0	51.7	
92 Styrene	104	9.296	9.297	-0.001	95	884747	50.0	52.4	
93 Bromoform	173	9.534	9.534	0.000	94	143227	50.0	48.4	
95 Isopropylbenzene	105	9.656	9.656	0.000	96	1325234	50.0	50.9	
97 Bromobenzene	156	9.991	9.992	-0.001	98	291471	50.0	50.4	
98 1,1,2,2-Tetrachloroethane	83	10.022	10.022	0.000	86	331765	50.0	52.6	
99 1,2,3-Trichloropropane	110	10.058	10.059	-0.001	82	108404	50.0	51.0	
100 trans-1,4-Dichloro-2-buten	53	10.071	10.071	0.000	75	117889	50.0	58.0	
101 N-Propylbenzene	91	10.077	10.077	0.000	98	1565934	50.0	50.5	
102 2-Chlorotoluene	126	10.174	10.174	0.000	94	291916	50.0	50.0	
104 1,3,5-Trimethylbenzene	105	10.254	10.248	0.006	93	1147068	50.0	51.2	
105 4-Chlorotoluene	126	10.284	10.284	0.000	97	308728	50.0	50.9	
106 tert-Butylbenzene	134	10.564	10.565	-0.001	87	239712	50.0	50.7	
107 1,2,4-Trimethylbenzene	105	10.619	10.619	0.000	98	1200977	50.0	51.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.778	0.000	95	1414691	50.0	50.8	
110 1,3-Dichlorobenzene	146	10.906	10.906	0.000	95	578622	50.0	49.9	
111 4-Isopropyltoluene	119	10.912	10.912	0.000	96	1213574	50.0	50.8	
113 1,4-Dichlorobenzene	146	10.991	10.991	0.000	91	605022	50.0	50.3	
115 n-Butylbenzene	91	11.296	11.296	0.000	98	1138231	50.0	51.8	
116 1,2-Dichlorobenzene	146	11.345	11.345	0.000	93	576465	50.0	50.5	
117 1,2-Dibromo-3-Chloropropan	75	12.058	12.058	0.000	74	77856	50.0	56.4	
119 1,2,4-Trichlorobenzene	180	12.747	12.747	0.000	93	441605	50.0	53.0	
120 Hexachlorobutadiene	225	12.863	12.863	0.000	94	177613	50.0	50.8	
121 Naphthalene	128	12.954	12.954	0.000	98	1325175	50.0	54.7	
122 1,2,3-Trichlorobenzene	180	13.162	13.162	0.000	93	427411	50.0	53.2	
S 123 Total BTEX	1				0			254.4	
S 124 Xylenes, Total	1				0			103.0	
S 125 1,2-Dichloroethene, Total	1				0			99.5	
S 126 1,3-Dichloropropene, Total	1				0			109.3	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31254.D

Injection Date: 10-Jun-2014 17:02:30

Instrument ID: HP5973G

Operator ID: RAS

Lims ID: IC 5

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

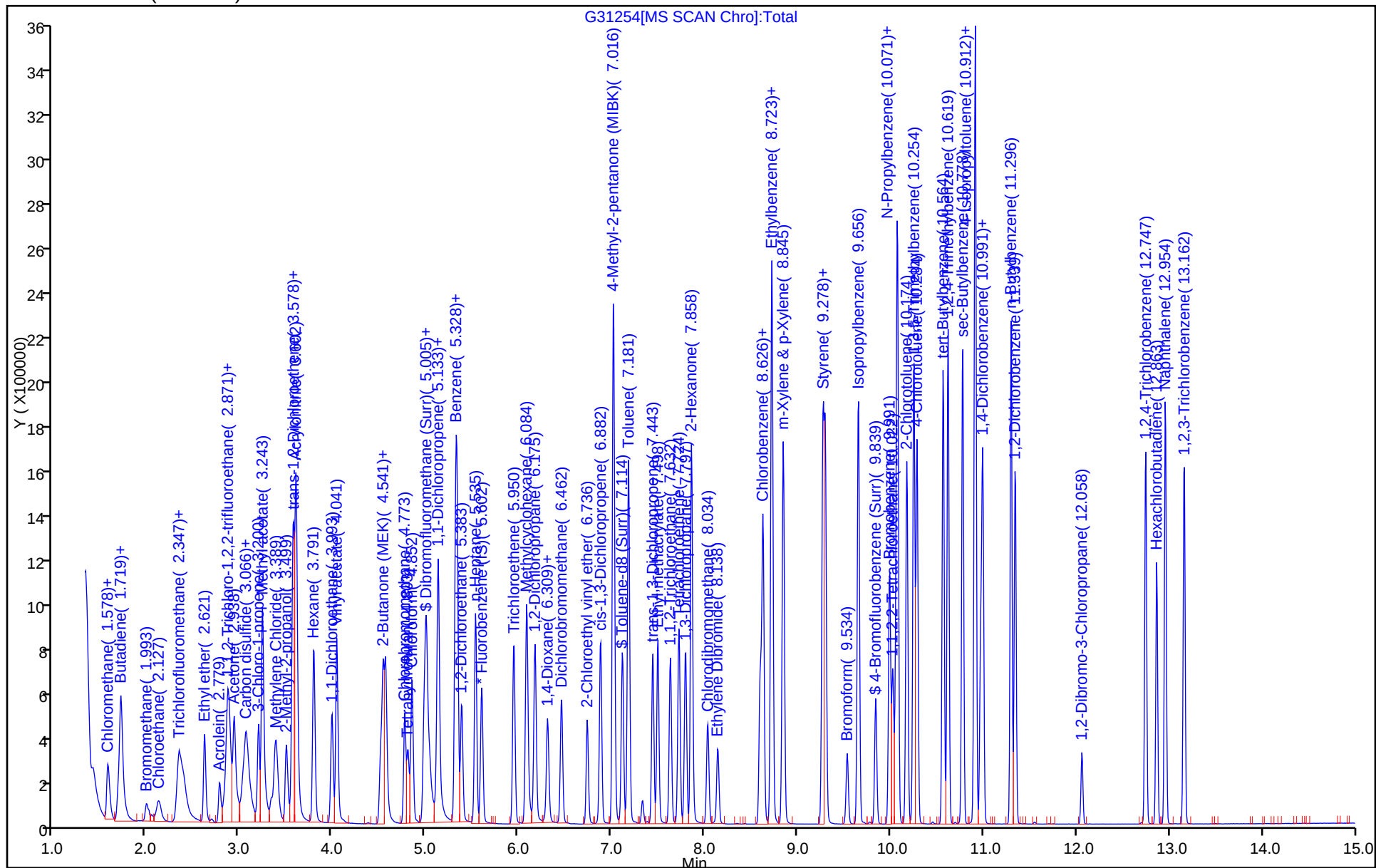
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31254.D

Injection Date: 10-Jun-2014 17:02:30

Instrument ID: HP5973G

Lims ID: IC 5

Client ID:

Operator ID: RAS

ALS Bottle#:

7

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: G-8260

Limit Group:

MV - 8260C ICAL

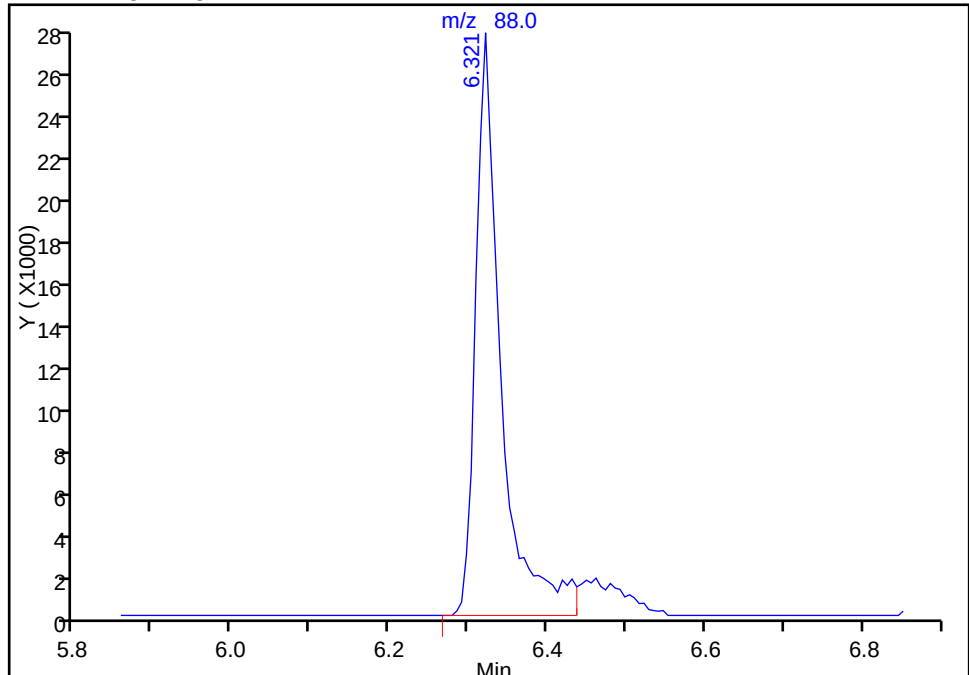
Column: ZB-624 (0.25 mm)

Detector

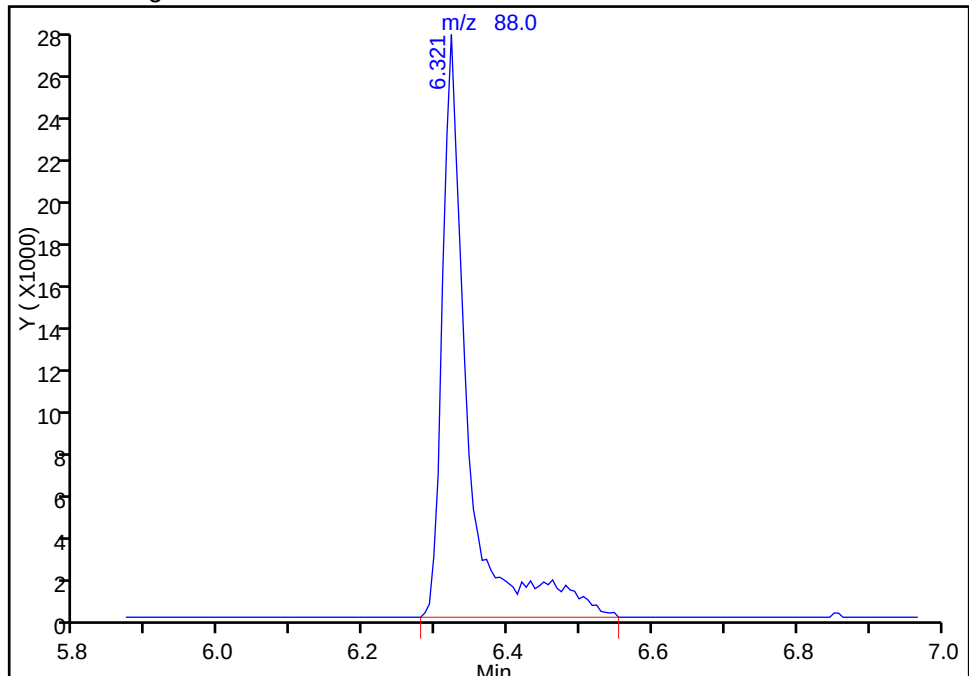
MS SCAN

66 1,4-Dioxane, CAS: 123-91-1RT: 6.32
Response: 60555
Amount: 1081.3174

Processing Integration Results

RT: 6.32
Response: 66944
Amount: 1173.0985

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:26:20

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31255.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 10-Jun-2014 17:24:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0032823-010 =480-0032823-010
 Operator ID: RAS Instrument ID: HP5973G
 Sublist: chrom-G-8260*sub20
 Method: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 11-Jun-2014 09:27:44 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: sobolr

Date: 11-Jun-2014 09:27:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.602	5.596	0.006	98	110958	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	88	233302	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.973	10.973	0.000	81	198352	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.004	5.005	-0.001	68	115750	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.315	5.316	-0.001	0	83807	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	92	527132	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	82	144031	25.0	25.3	
10 Dichlorodifluoromethane	85	1.426	1.426	0.000	88	921093	100.0	106.9	
12 Chloromethane	50	1.584	1.579	0.005	89	795411	100.0	105.7	
13 Vinyl chloride	62	1.706	1.694	0.012	83	741203	100.0	104.8	
144 Butadiene	54	1.725	1.719	0.006	93	661706	100.0	105.8	
14 Bromomethane	94	2.005	1.993	0.012	91	248676	100.0	119.8	
15 Chloroethane	64	2.127	2.121	0.006	95	356699	100.0	94.6	
16 Dichlorofluoromethane	67	2.340	2.341	-0.001	81	782191	100.0	118.6	
17 Trichlorofluoromethane	101	2.359	2.353	0.006	87	886410	100.0	118.1	
18 Ethyl ether	59	2.621	2.621	0.000	90	467245	100.0	100.3	
19 Acrolein	56	2.785	2.786	-0.001	94	339034	500.0	486.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.871	2.871	0.000	84	599326	100.0	107.2	
20 1,1-Dichloroethene	96	2.877	2.877	0.000	88	668750	100.0	103.4	
22 Acetone	43	2.938	2.938	0.000	99	940074	500.0	475.0	
23 Iodomethane	142	3.035	3.042	-0.007	97	724336	100.0	97.6	
24 Carbon disulfide	76	3.072	3.072	0.000	100	1854336	100.0	102.9	
26 3-Chloro-1-propene	41	3.206	3.200	0.006	82	895806	100.0	100.1	
28 Methyl acetate	43	3.243	3.243	0.000	95	2172320	500.0	489.7	
29 Methylene Chloride	84	3.389	3.383	0.006	85	662559	100.0	99.8	
30 2-Methyl-2-propanol	59	3.499	3.505	-0.006	99	796454	1000.0	1020.0	
31 Methyl tert-butyl ether	73	3.572	3.572	0.000	88	1831700	100.0	99.9	
32 trans-1,2-Dichloroethene	96	3.584	3.578	0.006	94	527400	100.0	96.6	
33 Acrylonitrile	53	3.608	3.603	0.005	98	2102092	1000.0	954.3	
34 Hexane	57	3.797	3.792	0.005	94	793486	100.0	106.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.992	3.987	0.005	85	961907	100.0	100.5	
38 Vinyl acetate	43	4.041	4.041	0.000	97	2280429	200.0	207.9	
42 2,2-Dichloropropane	77	4.517	4.517	0.000	91	460129	100.0	97.1	
43 cis-1,2-Dichloroethene	96	4.541	4.541	0.000	70	570220	100.0	101.3	
44 2-Butanone (MEK)	43	4.565	4.572	-0.007	98	1393783	500.0	503.3	
48 Chlorobromomethane	128	4.779	4.773	0.006	94	263840	100.0	101.7	
49 Tetrahydrofuran	42	4.803	4.810	-0.007	86	386392	200.0	193.1	
50 Chloroform	85	4.852	4.852	0.000	81	610126	100.0	100.0	
51 1,1,1-Trichloroethane	97	4.986	4.980	0.006	92	747584	100.0	105.6	
52 Cyclohexane	56	5.011	5.005	0.005	91	1083973	100.0	107.7	
53 Carbon tetrachloride	117	5.126	5.127	-0.001	78	734141	100.0	112.9	
54 1,1-Dichloropropene	75	5.139	5.133	0.006	94	723533	100.0	103.6	
55 Isobutyl alcohol	43	5.321	5.322	-0.001	92	789673	2500.0	2574.5	
56 Benzene	78	5.334	5.334	0.000	97	2145149	100.0	98.1	
57 1,2-Dichloroethane	62	5.388	5.389	-0.001	90	833172	100.0	99.8	
59 n-Heptane	43	5.535	5.535	0.000	91	756734	100.0	103.7	
61 Trichloroethene	95	5.949	5.944	0.005	94	553189	100.0	102.3	
62 Methylcyclohexane	83	6.083	6.084	-0.001	90	1005370	100.0	111.1	
63 1,2-Dichloropropane	63	6.175	6.175	0.000	91	543465	100.0	102.3	
65 Dibromomethane	93	6.309	6.309	0.000	90	331916	100.0	101.7	
66 1,4-Dioxane	88	6.321	6.322	-0.001	90	126227	2000.0	2117.0	M
67 Dichlorobromomethane	83	6.461	6.462	-0.001	93	752482	100.0	110.7	
70 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	92	397353	100.0	107.4	
72 cis-1,3-Dichloropropene	75	6.882	6.882	0.000	90	935173	100.0	107.4	
73 4-Methyl-2-pentanone (MIBK)	43	7.016	7.016	0.000	95	2874319	500.0	486.1	
74 Toluene	92	7.181	7.181	0.000	98	1418221	100.0	99.1	
76 trans-1,3-Dichloropropene	75	7.443	7.443	0.000	92	855770	100.0	110.5	
78 Ethyl methacrylate	69	7.498	7.498	0.000	89	823473	100.0	105.6	
79 1,1,2-Trichloroethane	83	7.632	7.632	0.000	88	398606	100.0	101.7	
80 Tetrachloroethene	166	7.723	7.724	-0.001	88	530823	100.0	102.4	
81 1,3-Dichloropropane	76	7.797	7.797	0.000	93	911650	100.0	101.5	
82 2-Hexanone	43	7.858	7.858	0.000	96	2067337	500.0	490.0	
83 Chlorodibromomethane	129	8.034	8.035	-0.001	89	521912	100.0	119.3	
84 Ethylene Dibromide	107	8.144	8.144	0.000	98	495939	100.0	104.5	
86 Chlorobenzene	112	8.626	8.626	0.000	92	1510287	100.0	99.7	
88 1,1,1,2-Tetrachloroethane	131	8.723	8.723	0.000	88	485493	100.0	106.8	
89 Ethylbenzene	91	8.723	8.723	0.000	99	2625638	100.0	98.7	
90 m-Xylene & p-Xylene	106	8.845	8.845	0.000	0	1057424	100.0	101.3	
91 o-Xylene	106	9.272	9.272	0.000	98	1015252	100.0	100.9	
92 Styrene	104	9.296	9.297	-0.001	95	1786494	100.0	102.8	
93 Bromoform	173	9.534	9.534	0.000	94	319952	100.0	101.5	
95 Isopropylbenzene	105	9.656	9.656	0.000	97	2691580	100.0	98.7	
97 Bromobenzene	156	9.991	9.992	-0.001	97	590905	100.0	97.6	
98 1,1,2,2-Tetrachloroethane	83	10.022	10.022	0.000	87	671847	100.0	101.7	
99 1,2,3-Trichloropropane	110	10.058	10.059	-0.001	82	218478	100.0	98.2	
100 trans-1,4-Dichloro-2-buten	53	10.070	10.071	-0.001	70	240533	100.0	113.1	
101 N-Propylbenzene	91	10.077	10.077	0.000	98	3142827	100.0	96.7	
102 2-Chlorotoluene	126	10.174	10.174	0.000	94	599244	100.0	98.0	
104 1,3,5-Trimethylbenzene	105	10.253	10.248	0.005	92	2357220	100.0	100.4	
105 4-Chlorotoluene	126	10.284	10.284	0.000	99	633156	100.0	99.6	
106 tert-Butylbenzene	134	10.564	10.565	-0.001	91	496437	100.0	100.2	
107 1,2,4-Trimethylbenzene	105	10.619	10.619	0.000	98	2449590	100.0	99.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.778	10.778	0.000	95	2956730	100.0	101.4	
110 1,3-Dichlorobenzene	146	10.906	10.906	0.000	94	1154798	100.0	95.2	
111 4-Isopropyltoluene	119	10.918	10.912	0.006	96	2485026	100.0	99.3	
113 1,4-Dichlorobenzene	146	10.991	10.991	0.000	91	1238414	100.0	98.4	
115 n-Butylbenzene	91	11.296	11.296	0.000	98	2395195	100.0	104.0	
116 1,2-Dichlorobenzene	146	11.339	11.345	-0.006	93	1190480	100.0	99.5	
117 1,2-Dibromo-3-Chloropropan	75	12.058	12.058	0.000	75	174842	100.0	120.9	
119 1,2,4-Trichlorobenzene	180	12.747	12.747	0.000	92	950081	100.0	108.8	
120 Hexachlorobutadiene	225	12.863	12.863	0.000	94	402966	100.0	110.2	
121 Naphthalene	128	12.954	12.954	0.000	98	2803352	100.0	110.4	
122 1,2,3-Trichlorobenzene	180	13.161	13.162	-0.001	93	909141	100.0	108.0	
S 123 Total BTEX	1				0			498.1	
S 124 Xylenes, Total	1				0			202.2	
S 125 1,2-Dichloroethene, Total	1				0			198.0	
S 126 1,3-Dichloropropene, Total	1				0			217.9	

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31255.D

Injection Date: 10-Jun-2014 17:24:30

Instrument ID: HP5973G

Operator ID: RAS

Lims ID: IC 6

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

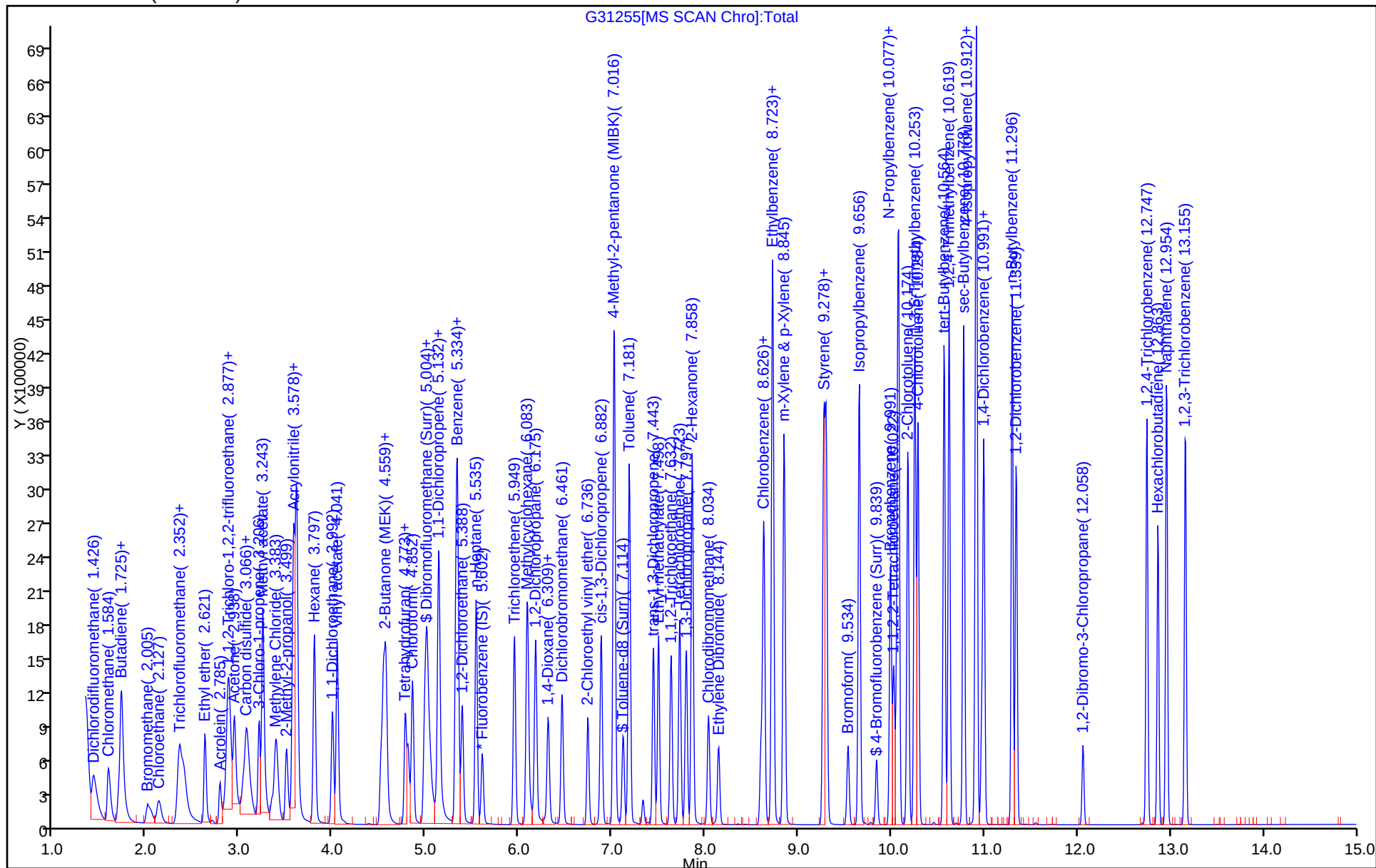
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31255.D

Injection Date: 10-Jun-2014 17:24:30

Instrument ID: HP5973G

Lims ID: IC 6

Client ID:

Operator ID: RAS

ALS Bottle#:

8

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

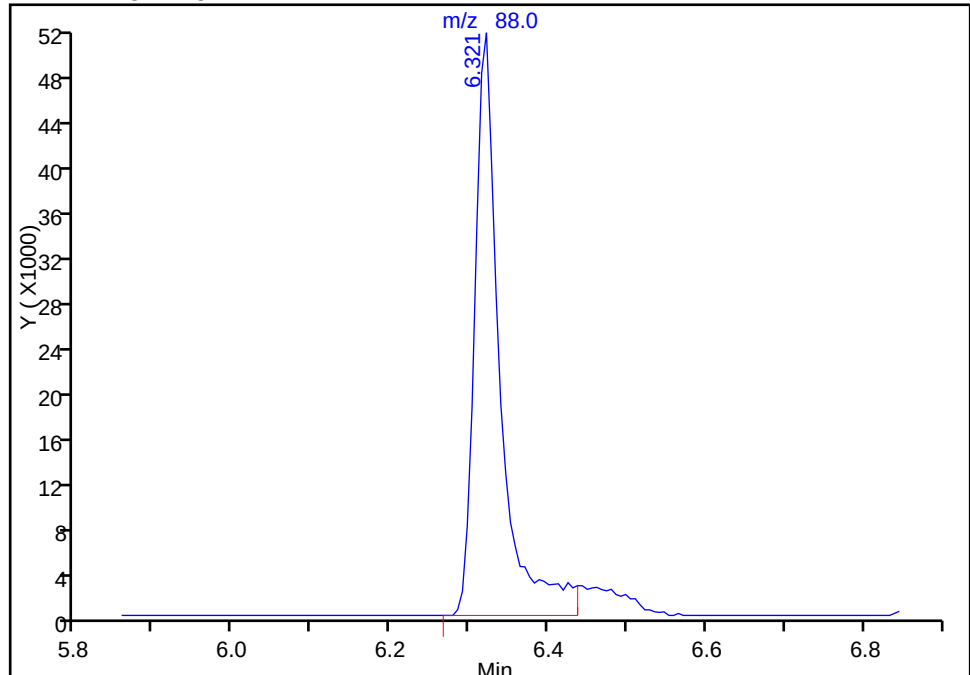
Column: ZB-624 (0.25 mm)

Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

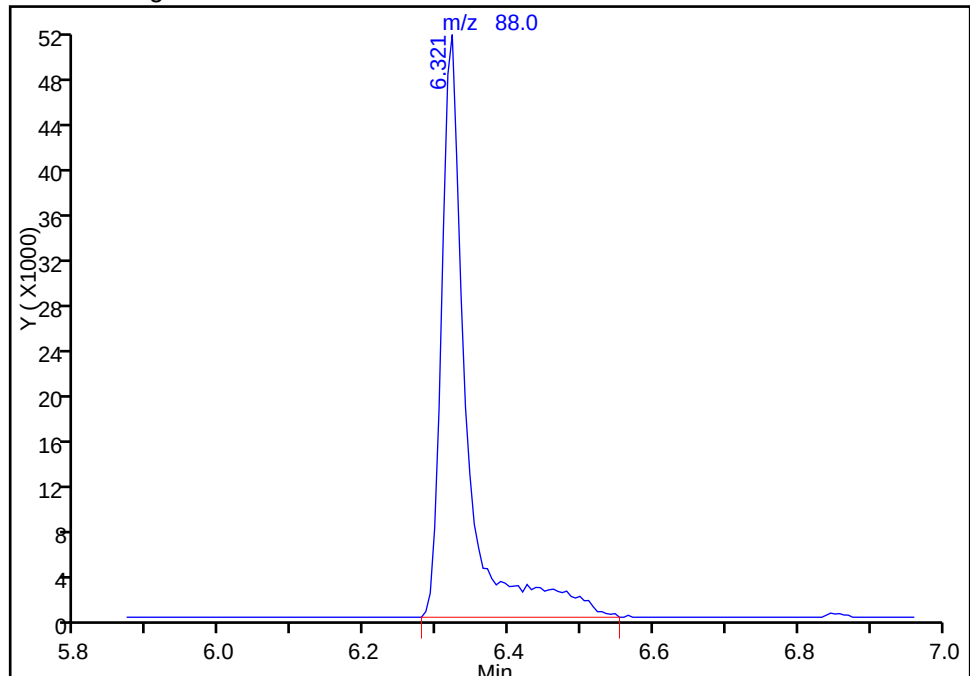
RT: 6.32
Response: 116069
Amount: 1974.6615

Processing Integration Results



RT: 6.32
Response: 126227
Amount: 2116.9902

Manual Integration Results



Reviewer: sobolr, 11-Jun-2014 09:27:44

Audit Action: Manually Integrated

Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1

SDG No.: _____

Lab Sample ID: CCVIS 480-196693/3 Calibration Date: 08/07/2014 10:35

Instrument ID: HP5973G Calib Start Date: 06/10/2014 15:07

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/10/2014 17:24

Lab File ID: G32968.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	1.942	1.773	0.1000	22.8	25.0	-8.7	50.0
Chloromethane	Ave	1.696	1.640	0.1000	24.2	25.0	-3.3	20.0
Vinyl chloride	Ave	1.594	1.707	0.1000	26.8	25.0	7.1	20.0
Butadiene	Ave	1.410	1.470		26.1	25.0	4.3	20.0
Bromomethane	Ave	0.4677	0.5692	0.1000	30.4	25.0	21.7	50.0
Chloroethane	Ave	0.8493	0.9008	0.1000	26.5	25.0	6.1	50.0
Dichlorofluoromethane	Ave	1.486	1.963		33.0	25.0	32.1*	20.0
Trichlorofluoromethane	Ave	1.691	1.989	0.1000	29.4	25.0	17.6	20.0
Ethyl ether	Ave	1.050	1.100		26.2	25.0	4.8	20.0
Acrolein	Ave	0.1571	0.1989		158	125	26.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.259	1.449	0.1000	28.8	25.0	15.1	20.0
1,1-Dichloroethene	Ave	1.457	1.508	0.1000	25.9	25.0	3.5	20.0
Acetone	Ave	0.4460	0.4827	0.1000	135	125	8.2	50.0
Iodomethane	Ave	1.672	1.580		23.6	25.0	-5.5	20.0
Carbon disulfide	Ave	4.059	4.025	0.1000	24.8	25.0	-0.8	20.0
Allyl chloride	Ave	2.017	1.780		22.1	25.0	-11.7	20.0
Methyl acetate	Ave	0.999	1.187	0.1000	148	125	18.7	50.0
Methylene Chloride	Linl		1.600	0.1000	26.1	25.0	4.4	20.0
2-Methyl-2-propanol	Ave	0.1759	0.1620		230	250	-7.9	50.0
Methyl tert-butyl ether	Ave	4.130	4.198	0.1000	25.4	25.0	1.6	20.0
trans-1,2-Dichloroethene	Ave	1.230	1.230	0.1000	25.0	25.0	-0.0	20.0
Acrylonitrile	Ave	0.4963	0.5207		262	250	4.9	20.0
Hexane	Ave	1.677	1.878		28.0	25.0	11.9	20.0
1,1-Dichloroethane	Ave	2.156	2.214	0.2000	25.7	25.0	2.7	20.0
Vinyl acetate	Ave	2.472	1.436		29.1	50.0	-41.9*	20.0
2,2-Dichloropropane	Ave	1.067	1.059		24.8	25.0	-0.8	20.0
cis-1,2-Dichloroethene	Ave	1.268	1.301	0.1000	25.7	25.0	2.6	20.0
2-Butanone (MEK)	Ave	0.6239	0.6888	0.1000	138	125	10.4	20.0
Chlorobromomethane	Ave	0.5844	0.5900		25.2	25.0	1.0	20.0
Tetrahydrofuran	Ave	0.4510	0.4637		51.4	50.0	2.8	20.0
Chloroform	Ave	1.374	1.393	0.2000	25.3	25.0	1.3	20.0
1,1,1-Trichloroethane	Ave	1.595	1.556	0.1000	24.4	25.0	-2.5	20.0
Cyclohexane	Ave	2.267	2.399	0.1000	26.5	25.0	5.8	20.0
Carbon tetrachloride	Ave	1.466	1.309	0.1000	22.3	25.0	-10.7	20.0
1,1-Dichloropropene	Ave	1.574	1.653		26.3	25.0	5.1	20.0
Isobutyl alcohol	Ave	0.0691	0.0649		587	625	-6.1	50.0
Benzene	Ave	4.924	5.045	0.5000	25.6	25.0	2.5	20.0
1,2-Dichloroethane	Ave	1.881	1.880	0.1000	25.0	25.0	-0.0	20.0
n-Heptane	Ave	1.644	1.870		28.4	25.0	13.7	20.0
Trichloroethene	Ave	1.218	1.238	0.2000	25.4	25.0	1.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1

SDG No.: _____

Lab Sample ID: CCVIS 480-196693/3 Calibration Date: 08/07/2014 10:35

Instrument ID: HP5973G Calib Start Date: 06/10/2014 15:07

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/10/2014 17:24

Lab File ID: G32968.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
Methylcyclohexane	Ave	2.039	2.290	0.1000	28.1	25.0	12.3	20.0
1,2-Dichloropropane	Ave	1.197	1.252	0.1000	26.2	25.0	4.6	20.0
Dibromomethane	Ave	0.7353	0.7298	0.1000	24.8	25.0	-0.8	20.0
1,4-Dioxane	Ave	0.0064	0.0065		509	500	1.8	50.0
Bromodichloromethane	Ave	1.531	1.509	0.2000	24.6	25.0	-1.4	20.0
2-Chloroethyl vinyl ether	Ave	0.8334	0.8781		26.3	25.0	5.4	20.0
cis-1,3-Dichloropropene	Ave	1.962	1.953	0.2000	24.9	25.0	-0.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6336	0.6769	0.1000	134	125	6.8	20.0
Toluene	Ave	1.534	1.550	0.4000	25.3	25.0	1.0	20.0
trans-1,3-Dichloropropene	Ave	0.8296	0.8042	0.1000	24.2	25.0	-3.1	20.0
Ethyl methacrylate	Ave	0.8359	0.8349		25.0	25.0	-0.1	20.0
1,1,2-Trichloroethane	Ave	0.4200	0.4332	0.1000	25.8	25.0	3.1	20.0
Tetrachloroethene	Ave	0.5557	0.5650	0.2000	25.4	25.0	1.7	20.0
1,3-Dichloropropane	Ave	0.9623	1.004		26.1	25.0	4.3	20.0
2-Hexanone	Ave	0.4521	0.4845	0.1000	134	125	7.2	20.0
Dibromochloromethane	Ave	0.4688	0.4496	0.1000	24.0	25.0	-4.1	20.0
1,2-Dibromoethane	Ave	0.5085	0.5290		26.0	25.0	4.0	20.0
Chlorobenzene	Ave	1.623	1.657	0.5000	25.5	25.0	2.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4873	0.4547		23.3	25.0	-6.7	20.0
Ethylbenzene	Ave	2.850	2.907	0.1000	25.5	25.0	2.0	20.0
m,p-Xylene	Ave	1.118	1.125	0.1000	25.2	25.0	0.6	20.0
o-Xylene	Ave	1.079	1.073	0.3000	24.9	25.0	-0.5	20.0
Styrene	Ave	1.862	1.889	0.3000	25.4	25.0	1.4	20.0
Bromoform	Lin		0.2421	0.1000	20.4	25.0	-18.6	50.0
Isopropylbenzene	Ave	3.438	3.580	0.1000	26.0	25.0	4.1	20.0
Bromobenzene	Ave	0.7628	0.7697		25.2	25.0	0.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8322	0.8855	0.3000	26.6	25.0	6.4	20.0
1,2,3-Trichloropropane	Ave	0.2804	0.2936		26.2	25.0	4.7	20.0
N-Propylbenzene	Ave	4.096	4.263		26.0	25.0	4.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2681	0.2726		25.4	25.0	1.7	50.0
2-Chlorotoluene	Ave	0.7707	0.7795		25.3	25.0	1.1	20.0
1,3,5-Trimethylbenzene	Ave	2.958	3.074		26.0	25.0	3.9	20.0
4-Chlorotoluene	Ave	0.8011	0.8307		25.9	25.0	3.7	20.0
tert-Butylbenzene	Ave	0.6244	0.6368		25.5	25.0	2.0	20.0
1,2,4-Trimethylbenzene	Ave	3.096	3.195		25.8	25.0	3.2	20.0
sec-Butylbenzene	Ave	3.674	3.957		26.9	25.0	7.7	20.0
1,3-Dichlorobenzene	Ave	1.529	1.570	0.6000	25.7	25.0	2.6	20.0
4-Isopropyltoluene	Ave	3.153	3.370		26.7	25.0	6.9	20.0
1,4-Dichlorobenzene	Ave	1.586	1.601	0.5000	25.2	25.0	1.0	20.0
n-Butylbenzene	Ave	2.902	3.121		26.9	25.0	7.5	20.0
1,2-Dichlorobenzene	Ave	1.508	1.533	0.4000	25.4	25.0	1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-196693/3 Calibration Date: 08/07/2014 10:35
 Instrument ID: HP5973G Calib Start Date: 06/10/2014 15:07
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/10/2014 17:24
 Lab File ID: G32968.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-Dibromo-3-Chloropropane	Ave	0.1822	0.1637	0.0500	22.5	25.0	-10.2	50.0
1,2,4-Trichlorobenzene	Ave	1.100	1.139	0.2000	25.9	25.0	3.5	20.0
Hexachlorobutadiene	Ave	0.4610	0.5103		27.7	25.0	10.7	20.0
Naphthalene	Ave	3.199	3.108		24.3	25.0	-2.9	20.0
1,2,3-Trichlorobenzene	Ave	1.061	1.048		24.7	25.0	-1.2	20.0
Dibromofluoromethane (Surr)	Ave	1.049	1.045		24.9	25.0	-0.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7699	0.7965		25.9	25.0	3.5	20.0
Toluene-d8 (Surr)	Ave	2.267	2.254		24.9	25.0	-0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6098	0.6072		24.9	25.0	-0.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32968.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-Aug-2014 10:35:30 ALS Bottle#: 33 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0034422-003480-0034422-003
 Operator ID: CN Instrument ID: HP5973G
 Sublist: chrom-G-8260*sub20
 Method: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 07-Aug-2014 11:25:09 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: manc

Date: 07-Aug-2014 11:25:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.596	5.596	0.000	98	84809	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	87	178508	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.967	10.967	0.000	97	146070	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.005	5.005	0.000	90	88587	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.309	5.309	0.000	0	67553	25.0	25.9	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	402397	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	82	108383	25.0	24.9	
10 Dichlorodifluoromethane	85	1.426	1.426	0.000	99	150351	25.0	22.8	
12 Chloromethane	50	1.578	1.578	0.000	99	139081	25.0	24.2	
13 Vinyl chloride	62	1.694	1.694	0.000	98	144743	25.0	26.8	
144 Butadiene	54	1.725	1.725	0.000	91	124656	25.0	26.1	
14 Bromomethane	94	1.993	1.993	0.000	93	48275	25.0	30.4	
15 Chloroethane	64	2.133	2.133	0.000	100	76392	25.0	26.5	
16 Dichlorofluoromethane	67	2.340	2.340	0.000	97	166455	25.0	33.0	
17 Trichlorofluoromethane	101	2.359	2.359	0.000	68	168661	25.0	29.4	
18 Ethyl ether	59	2.621	2.621	0.000	89	93300	25.0	26.2	
19 Acrolein	56	2.786	2.786	0.000	99	84348	125.0	158.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.871	2.871	0.000	88	122919	25.0	28.8	
20 1,1-Dichloroethene	96	2.871	2.871	0.000	97	127907	25.0	25.9	
22 Acetone	43	2.938	2.938	0.000	99	204690	125.0	135.3	
23 Iodomethane	142	3.042	3.042	0.000	99	133984	25.0	23.6	
24 Carbon disulfide	76	3.078	3.078	0.000	99	341377	25.0	24.8	
26 3-Chloro-1-propene	41	3.200	3.200	0.000	90	150984	25.0	22.1	
28 Methyl acetate	43	3.243	3.243	0.000	98	503129	125.0	148.4	
29 Methylene Chloride	84	3.389	3.389	0.000	92	135705	25.0	26.1	
30 2-Methyl-2-propanol	59	3.499	3.499	0.000	98	137375	250.0	230.2	
31 Methyl tert-butyl ether	73	3.566	3.566	0.000	94	356015	25.0	25.4	
32 trans-1,2-Dichloroethene	96	3.578	3.578	0.000	97	104281	25.0	25.0	
33 Acrylonitrile	53	3.602	3.602	0.000	98	441590	250.0	262.3	
34 Hexane	57	3.791	3.791	0.000	92	159237	25.0	28.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.987	3.987	0.000	96	187793	25.0	25.7	
38 Vinyl acetate	43	4.041	4.041	0.000	97	243581	50.0	29.1	
42 2,2-Dichloropropane	77	4.517	4.517	0.000	89	89778	25.0	24.8	
43 cis-1,2-Dichloroethene	96	4.541	4.541	0.000	82	110315	25.0	25.7	
44 2-Butanone (MEK)	43	4.566	4.566	0.000	99	292060	125.0	138.0	
48 Chlorobromomethane	128	4.773	4.773	0.000	97	50033	25.0	25.2	
49 Tetrahydrofuran	42	4.810	4.810	0.000	88	78649	50.0	51.4	
50 Chloroform	85	4.846	4.846	0.000	94	118119	25.0	25.3	
51 1,1,1-Trichloroethane	97	4.980	4.980	0.000	98	131926	25.0	24.4	
52 Cyclohexane	56	5.005	5.005	0.000	90	203462	25.0	26.5	
53 Carbon tetrachloride	117	5.127	5.127	0.000	98	111053	25.0	22.3	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	97	140218	25.0	26.3	
55 Isobutyl alcohol	43	5.316	5.316	0.000	93	137607	625.0	587.0	
56 Benzene	78	5.334	5.334	0.000	97	427894	25.0	25.6	
57 1,2-Dichloroethane	62	5.383	5.383	0.000	98	159452	25.0	25.0	
59 n-Heptane	43	5.529	5.529	0.000	91	158565	25.0	28.4	
61 Trichloroethene	95	5.943	5.943	0.000	98	104997	25.0	25.4	
62 Methylcyclohexane	83	6.084	6.084	0.000	89	194197	25.0	28.1	
63 1,2-Dichloropropane	63	6.169	6.169	0.000	93	106190	25.0	26.2	
65 Dibromomethane	93	6.303	6.303	0.000	94	61889	25.0	24.8	
66 1,4-Dioxane	88	6.321	6.321	0.000	92	23227	500.0	509.1	
67 Dichlorobromomethane	83	6.456	6.456	0.000	99	127996	25.0	24.6	
70 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	93	74471	25.0	26.3	
72 cis-1,3-Dichloropropene	75	6.876	6.876	0.000	94	165661	25.0	24.9	
73 4-Methyl-2-pentanone (MIBK)	43	7.016	7.016	0.000	95	604159	125.0	133.5	
74 Toluene	92	7.181	7.181	0.000	98	276601	25.0	25.3	
76 trans-1,3-Dichloropropene	75	7.437	7.437	0.000	94	143554	25.0	24.2	
78 Ethyl methacrylate	69	7.492	7.492	0.000	89	149028	25.0	25.0	
79 1,1,2-Trichloroethane	83	7.626	7.626	0.000	93	77336	25.0	25.8	
80 Tetrachloroethene	166	7.717	7.717	0.000	94	100849	25.0	25.4	
81 1,3-Dichloropropane	76	7.791	7.791	0.000	92	179256	25.0	26.1	
82 2-Hexanone	43	7.858	7.858	0.000	95	432421	125.0	134.0	
83 Chlorodibromomethane	129	8.028	8.028	0.000	90	80253	25.0	24.0	
84 Ethylene Dibromide	107	8.138	8.138	0.000	98	94424	25.0	26.0	
86 Chlorobenzene	112	8.626	8.626	0.000	93	295837	25.0	25.5	
88 1,1,1,2-Tetrachloroethane	131	8.717	8.717	0.000	89	81162	25.0	23.3	
89 Ethylbenzene	91	8.723	8.723	0.000	99	518952	25.0	25.5	
90 m-Xylene & p-Xylene	106	8.845	8.845	0.000	0	200892	25.0	25.2	
91 o-Xylene	106	9.272	9.272	0.000	98	191510	25.0	24.9	
92 Styrene	104	9.296	9.296	0.000	95	337173	25.0	25.4	
93 Bromoform	173	9.534	9.534	0.000	95	43222	25.0	20.4	
95 Isopropylbenzene	105	9.650	9.650	0.000	96	522887	25.0	26.0	
97 Bromobenzene	156	9.991	9.991	0.000	97	112429	25.0	25.2	
98 1,1,2,2-Tetrachloroethane	83	10.022	10.022	0.000	95	129337	25.0	26.6	
99 1,2,3-Trichloropropane	110	10.058	10.058	0.000	88	42890	25.0	26.2	
100 trans-1,4-Dichloro-2-buten	53	10.071	10.071	0.000	78	39820	25.0	25.4	
101 N-Propylbenzene	91	10.071	10.071	0.000	99	622677	25.0	26.0	
102 2-Chlorotoluene	126	10.174	10.174	0.000	95	113860	25.0	25.3	
104 1,3,5-Trimethylbenzene	105	10.247	10.247	0.000	94	449051	25.0	26.0	
105 4-Chlorotoluene	126	10.284	10.284	0.000	98	121342	25.0	25.9	
106 tert-Butylbenzene	134	10.564	10.564	0.000	92	93013	25.0	25.5	
107 1,2,4-Trimethylbenzene	105	10.619	10.619	0.000	97	466644	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.772	10.772	0.000	95	577949	25.0	26.9	
110 1,3-Dichlorobenzene	146	10.906	10.906	0.000	95	229294	25.0	25.7	
111 4-Isopropyltoluene	119	10.912	10.912	0.000	97	492257	25.0	26.7	
113 1,4-Dichlorobenzene	146	10.991	10.991	0.000	92	233902	25.0	25.2	
115 n-Butylbenzene	91	11.296	11.296	0.000	98	455824	25.0	26.9	
116 1,2-Dichlorobenzene	146	11.339	11.339	0.000	95	223902	25.0	25.4	
117 1,2-Dibromo-3-Chloropropan	75	12.058	12.058	0.000	75	23910	25.0	22.5	
119 1,2,4-Trichlorobenzene	180	12.747	12.747	0.000	93	166374	25.0	25.9	
120 Hexachlorobutadiene	225	12.863	12.863	0.000	97	74538	25.0	27.7	
121 Naphthalene	128	12.954	12.954	0.000	97	453923	25.0	24.3	
122 1,2,3-Trichlorobenzene	180	13.155	13.155	0.000	95	153070	25.0	24.7	
S 123 Total BTEX	1				0			126.4	
S 124 Xylenes, Total	1				0			50.0	
S 125 1,2-Dichloroethene, Total	1				0			50.6	
S 126 1,3-Dichloropropene, Total	1				0			49.1	

Reagents:

8260 CORP mix_00017	Amount Added: 12.50	Units: uL	
GAS CORP mix_00040	Amount Added: 12.50	Units: uL	
G_8260_Surr_00074	Amount Added: 1.00	Units: uL	Run Reagent
G_8260_IS_00058	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32968.D

Injection Date: 07-Aug-2014 10:35:30

Instrument ID: HP5973G

Lims ID: CCVIS

Operator ID: CN

Client ID:

Worklist Smp#: 3

Purge Vol: 5.000 mL

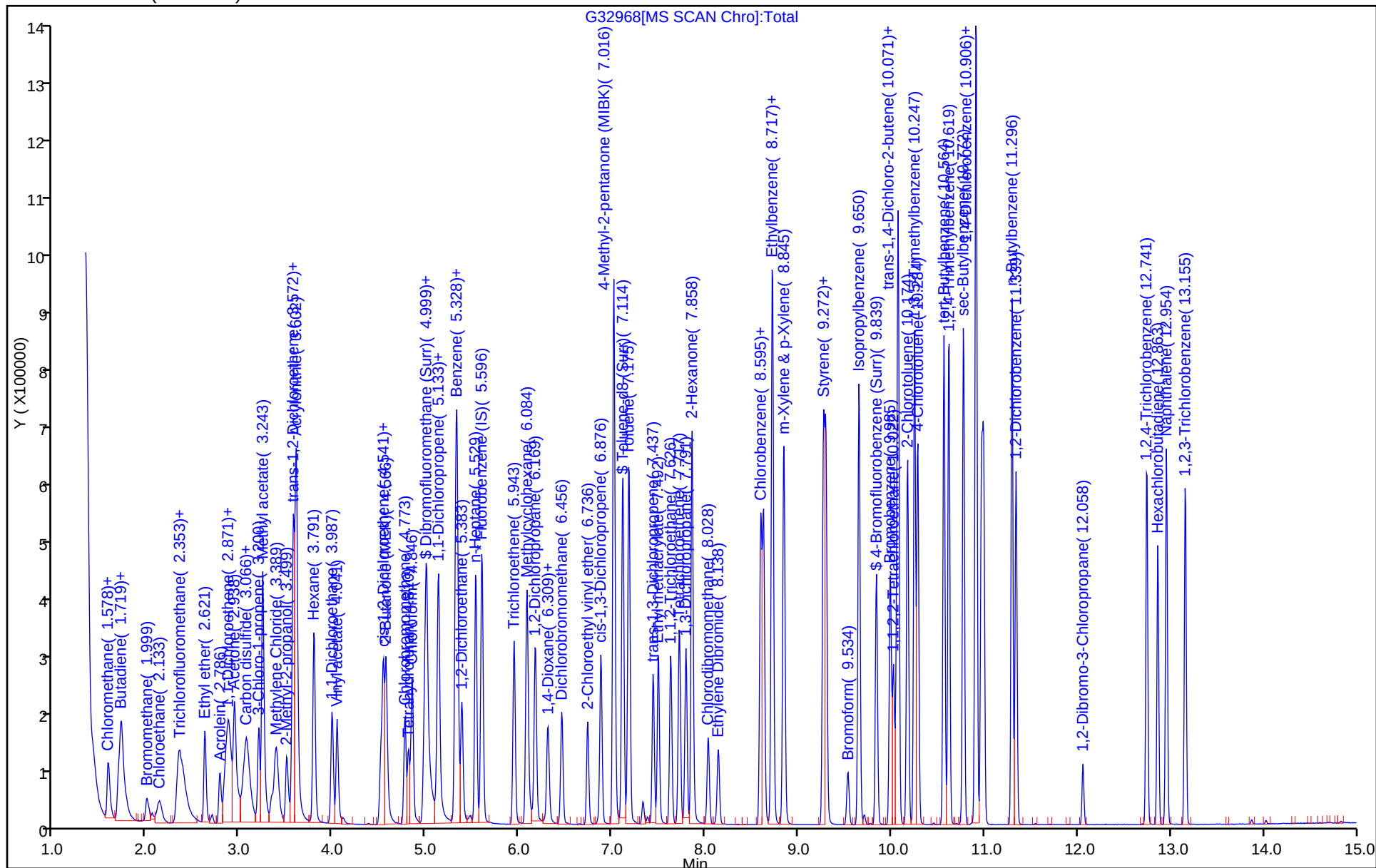
Dil. Factor: 1.0000

ALS Bottle#: 33

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31247.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Jun-2014 14:12:30 ALS Bottle#: 31 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0032823-002 =480-0032823-002
Operator ID: RAS Instrument ID: HP5973G
Method: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Jun-2014 14:28:08 Calib Date: 09-Jun-2014 23:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140609-32776.b\G31234.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK032

First Level Reviewer: sobolr

Date: 10-Jun-2014 14:28:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 35 BFB	95	3.930	3.930	0.000	0	121899	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31247.D

Injection Date: 10-Jun-2014 14:12:30

Instrument ID: HP5973G

Lims ID: BFB

Client ID:

Operator ID: RAS

ALS Bottle#: 31 Worklist Smp#: 2

Purge Vol: 5.000 mL

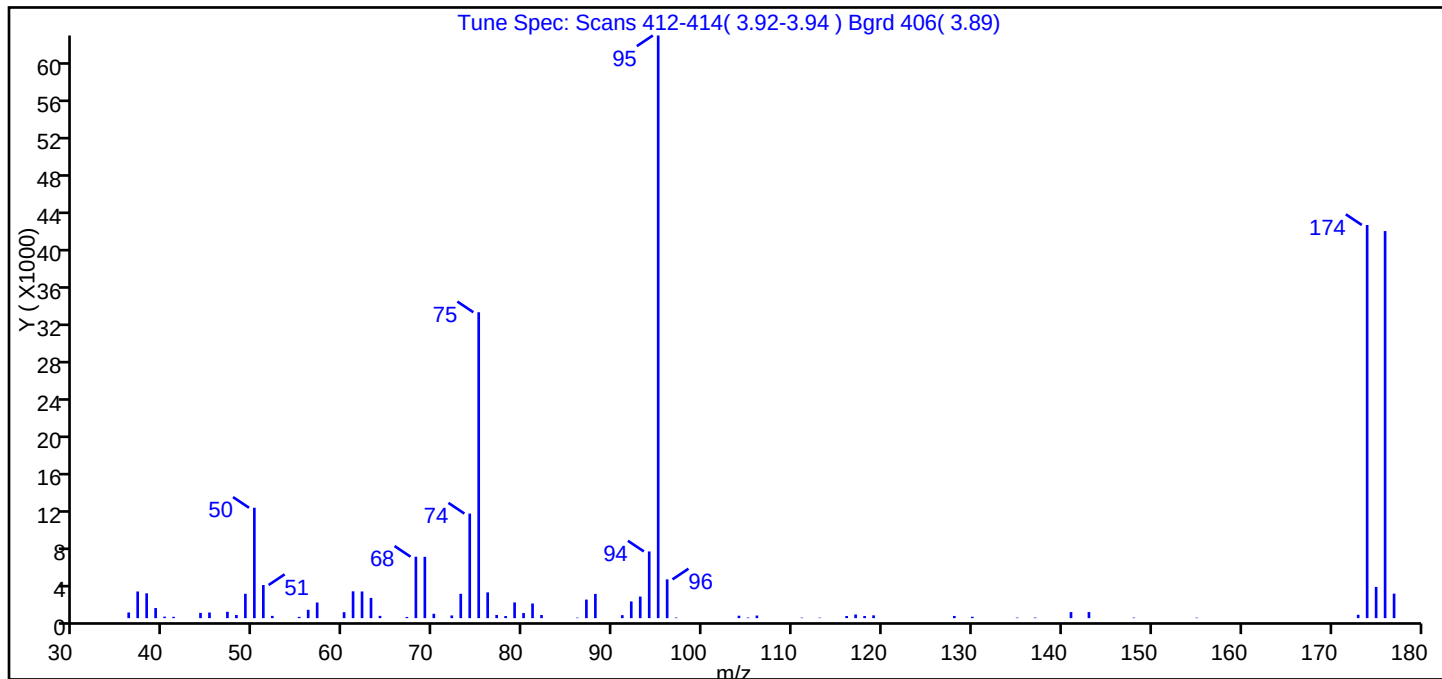
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.90
75	30.00 - 60.00% of mass 95	52.50
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.60 (0.90)
174	50.00 - 120.00% of mass 95	67.50
175	5.00 - 9.00% of mass 174	5.40 (7.90)
176	95.00 - 101.00% of mass 174	66.40 (98.50)
177	5.00 - 9.00% of mass 176	4.20 (6.30)

Data File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31247.D\G-8260.rslt\spectra.d
Injection Date: 10-Jun-2014 14:12:30
Spectrum: Tune Spec: Scans 412-414(3.92-3.94) Bgrd 406(3.89)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	614	61.00	2896	82.00	337	118.00	235
37.00	2876	62.00	2878	86.00	54	119.00	302
38.00	2679	63.00	2182	87.00	2004	128.00	236
39.00	1090	64.00	246	88.00	2615	130.00	150
40.00	161	67.00	129	91.00	323	135.00	60
41.00	141	68.00	6627	92.00	1802	137.00	64
44.00	564	69.00	6617	93.00	2329	141.00	656
45.00	609	70.00	471	94.00	7196	143.00	656
47.00	685	72.00	291	95.00	62872	148.00	57
48.00	340	73.00	2627	96.00	4183	155.00	50
49.00	2631	74.00	11285	97.00	63	173.00	363
50.00	11911	75.00	33008	104.00	262	174.00	42424
51.00	3576	76.00	2780	105.00	65	175.00	3371
52.00	244	77.00	341	106.00	281	176.00	41768
55.00	140	78.00	230	111.00	53	177.00	2645
56.00	902	79.00	1697	113.00	51		
57.00	1687	80.00	553	116.00	230		
60.00	642	81.00	1583	117.00	393		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32967.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 07-Aug-2014 10:08:30 ALS Bottle#: 32 Worklist Smp#: 9
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0034422-009480-0034422-009
Operator ID: CN Instrument ID: HP5973G
Method: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Aug-2014 10:20:31 Calib Date: 10-Jun-2014 21:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: manc

Date: 07-Aug-2014 10:20:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags

\$ 35 BFB	95	3.924	3.924	0.000	0	89673	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00035

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32967.D

Injection Date: 07-Aug-2014 10:08:30

Instrument ID: HP5973G

Lims ID: BFB

Client ID:

Operator ID: CN

ALS Bottle#:

32

Worklist Smp#:

9

Injection Vol: 1.0 uL

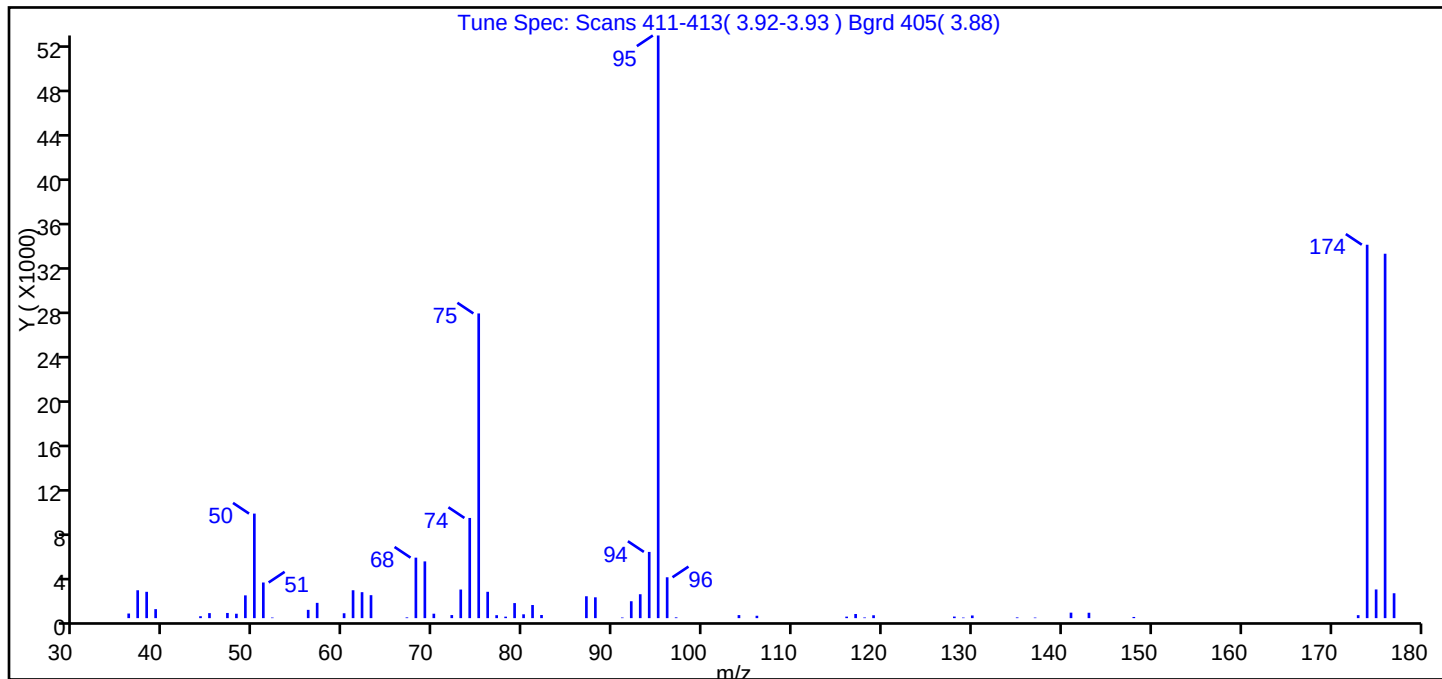
Dil. Factor: 1.0000

Method: G-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 35 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.90
75	30.00 - 60.00% of mass 95	52.30
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.50 (0.80)
174	50.00 - 120.00% of mass 95	64.10
175	5.00 - 9.00% of mass 174	4.90 (7.70)
176	95.00 - 101.00% of mass 174	62.50 (97.60)
177	5.00 - 9.00% of mass 176	4.30 (6.80)

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32967.D\G-8260.rslt\spectra.d
Injection Date: 07-Aug-2014 10:08:30
Spectrum: Tune Spec: Scans 411-413(3.92-3.93) Bgrd 405(3.88)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 61

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	415	62.00	2331	82.00	282	128.00	141
37.00	2503	63.00	2062	87.00	1965	129.00	51
38.00	2364	67.00	68	88.00	1870	130.00	240
39.00	808	68.00	5430	91.00	56	135.00	66
44.00	173	69.00	5094	92.00	1518	137.00	51
45.00	451	70.00	399	93.00	2146	141.00	493
47.00	464	72.00	277	94.00	5946	143.00	484
48.00	396	73.00	2568	95.00	52304	148.00	106
49.00	2044	74.00	8994	96.00	3669	173.00	267
50.00	9385	75.00	27352	97.00	70	174.00	33520
51.00	3200	76.00	2365	104.00	273	175.00	2576
52.00	54	77.00	266	106.00	215	176.00	32712
56.00	744	78.00	133	116.00	136	177.00	2234
57.00	1372	79.00	1351	117.00	371		
60.00	438	80.00	344	118.00	61		
61.00	2504	81.00	1178	119.00	259		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-196693/8

Matrix: Water Lab File ID: G32973.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 08/07/2014 12:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 196693 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.38
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.29
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.73
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.21
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.72
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.75
591-78-6	2-Hexanone	5.0	U	5.0	1.2
78-93-3	2-Butanone (MEK)	10	U	10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1
67-64-1	Acetone	10	U	10	3.0
71-43-2	Benzene	1.0	U	1.0	0.41
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.77
75-27-4	Bromodichloromethane	1.0	U	1.0	0.39
75-25-2	Bromoform	1.0	U	1.0	0.26
74-83-9	Bromomethane	1.0	U	1.0	0.69
75-15-0	Carbon disulfide	1.0	U	1.0	0.19
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.27
108-90-7	Chlorobenzene	1.0	U	1.0	0.75
124-48-1	Dibromochloromethane	1.0	U	1.0	0.32
75-00-3	Chloroethane	1.0	U	1.0	0.32
67-66-3	Chloroform	1.0	U	1.0	0.34
74-87-3	Chloromethane	1.0	U	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.36
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.44
100-42-5	Styrene	1.0	U	1.0	0.73
127-18-4	Tetrachloroethene	1.0	U	1.0	0.36
108-88-3	Toluene	1.0	U	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.37
79-01-6	Trichloroethene	1.0	U	1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-196693/8
 Matrix: Water Lab File ID: G32973.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 08/07/2014 12:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 196693 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	1.0	U	1.0	0.90
1330-20-7	Xylenes, Total	2.0	U	2.0	0.66
179601-23-1	m,p-Xylene	2.0	U	2.0	0.66
95-47-6	o-Xylene	1.0	U	1.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
2037-26-5	Toluene-d8 (Surr)	98		71-126
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32973.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 07-Aug-2014 12:48:30 ALS Bottle#: 38 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0034422-008480-0034422-008
 Operator ID: CN Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 07-Aug-2014 13:07:26 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: manc

Date: 07-Aug-2014 13:07:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.602	5.596	0.006	98	80405	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	89	169351	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.967	10.967	0.000	98	141617	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.004	5.005	0.000	93	84876	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.315	5.315	0.000	0	64958	25.0	26.2	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	375393	25.0	24.4	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	82	102296	25.0	24.8	
10 Dichlorodifluoromethane	85		1.426					ND	
11 Chlorodifluoromethane	51		1.463					ND	
12 Chloromethane	50		1.578					ND	
13 Vinyl chloride	62		1.694					ND	
144 Butadiene	54		1.725					ND	
14 Bromomethane	94		1.993					ND	
15 Chloroethane	64		2.133					ND	
16 Dichlorofluoromethane	67		2.340					ND	
17 Trichlorofluoromethane	101		2.359					ND	
141 Ethanol	45		2.609					ND	
18 Ethyl ether	59		2.621					ND	
68 Propene oxide	58		2.700					ND	
19 Acrolein	56		2.786					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.871					ND	
20 1,1-Dichloroethene	96		2.871					ND	
22 Acetone	43		2.938					ND	
23 Iodomethane	142		3.042					ND	
24 Carbon disulfide	76		3.078					ND	
25 Isopropyl alcohol	45		3.121					ND	
26 3-Chloro-1-propene	41		3.200					ND	
27 Acetonitrile	40		3.237					ND	
28 Methyl acetate	43		3.243					ND	
29 Methylene Chloride	84		3.389					ND	
30 2-Methyl-2-propanol	59		3.499					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
31 Methyl tert-butyl ether	73		3.566					ND	
32 trans-1,2-Dichloroethene	96		3.578					ND	
33 Acrylonitrile	53		3.602					ND	
34 Hexane	57		3.791					ND	
36 1,1-Dichloroethane	63		3.987					ND	
37 Isopropyl ether	45		4.023					ND	
38 Vinyl acetate	43		4.041					ND	
39 2-Chloro-1,3-butadiene	53		4.060					ND	
40 1,1-Dimethoxyethane	75		4.090					ND	
41 Tert-butyl ethyl ether	59		4.358					ND	
42 2,2-Dichloropropane	77		4.517					ND	
43 cis-1,2-Dichloroethene	96		4.541					ND	
44 2-Butanone (MEK)	43		4.566					ND	
45 Ethyl acetate	43		4.608					ND	
46 Propionitrile	54		4.651					ND	
47 Methacrylonitrile	41		4.773					ND	
48 Chlorobromomethane	128		4.773					ND	
49 Tetrahydrofuran	42		4.810					ND	
50 Chloroform	85		4.846					ND	
51 1,1,1-Trichloroethane	97		4.980					ND	
52 Cyclohexane	56		5.005					ND	
53 Carbon tetrachloride	117		5.127					ND	
54 1,1-Dichloropropene	75		5.133					ND	
55 Isobutyl alcohol	43		5.316					ND	
56 Benzene	78		5.334					ND	
146 Isooctane	57		5.358					ND	
140 t-Amyl alcohol	59		5.382					ND	
57 1,2-Dichloroethane	62		5.383					ND	
58 Tert-amyl methyl ether	73		5.413					ND	
59 n-Heptane	43		5.529					ND	
1 1,4-Difluorobenzene	114		5.706					ND	
61 Trichloroethene	95		5.943					ND	
145 Ethyl acrylate	55		6.053					ND	
62 Methylcyclohexane	83		6.084					ND	
63 1,2-Dichloropropane	63		6.169					ND	
60 n-Butanol	56		6.266					ND	
64 Methyl methacrylate	41		6.273					ND	
65 Dibromomethane	93		6.303					ND	
66 1,4-Dioxane	88		6.321					ND	
67 Dichlorobromomethane	83		6.456					ND	
69 2-Nitropropane	43		6.693					ND	
70 2-Chloroethyl vinyl ether	63		6.736					ND	
71 Epichlorohydrin	57		6.821					ND	
72 cis-1,3-Dichloropropene	75		6.876					ND	
73 4-Methyl-2-pentanone (MIBK)	43		7.016					ND	
74 Toluene	92		7.181					ND	
75 2-Methylthiophene	97		7.315					ND	
76 trans-1,3-Dichloropropene	75		7.437					ND	
77 3-Methylthiophene	97		7.474					ND	
78 Ethyl methacrylate	69		7.492					ND	
79 1,1,2-Trichloroethane	83		7.626					ND	
80 Tetrachloroethene	166		7.717					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
81 1,3-Dichloropropane	76		7.791					ND	
82 2-Hexanone	43		7.858					ND	
83 Chlorodibromomethane	129		8.028					ND	
84 Ethylene Dibromide	107		8.138					ND	
139 1-Chlorohexane	55		8.577					ND	
85 3-Chlorobenzotrifluoride	180		8.589					ND	
86 Chlorobenzene	112		8.626					ND	
87 4-Chlorobenzotrifluoride	180		8.650					ND	
88 1,1,1,2-Tetrachloroethane	131		8.717					ND	
89 Ethylbenzene	91		8.723					ND	
90 m-Xylene & p-Xylene	106		8.845					ND	
91 o-Xylene	106		9.272					ND	
92 Styrene	104		9.296					ND	
93 Bromoform	173		9.534					ND	
94 2-Chlorobenzotrifluoride	180		9.565					ND	
95 Isopropylbenzene	105		9.650					ND	
96 Cyclohexanone	55		9.796					ND	
97 Bromobenzene	156		9.991					ND	
98 1,1,2,2-Tetrachloroethane	83		10.022					ND	
99 1,2,3-Trichloropropane	110		10.058					ND	
100 trans-1,4-Dichloro-2-buten	53		10.071					ND	
101 N-Propylbenzene	91		10.071					ND	
102 2-Chlorotoluene	126		10.174					ND	
103 3-Chlorotoluene	126		10.235					ND	
104 1,3,5-Trimethylbenzene	105		10.247					ND	
105 4-Chlorotoluene	126		10.284					ND	
106 tert-Butylbenzene	134		10.564					ND	
108 Pentachloroethane	167		10.613					ND	
107 1,2,4-Trimethylbenzene	105		10.619					ND	
109 sec-Butylbenzene	105		10.772					ND	
110 1,3-Dichlorobenzene	146		10.906					ND	
111 4-Isopropyltoluene	119		10.912					ND	
112 Dicyclopentadiene	66		10.985					ND	
113 1,4-Dichlorobenzene	146		10.991					ND	
114 1,2,3-Trimethylbenzene	105		11.022					ND	
143 Benzyl chloride	126		11.131					ND	
115 n-Butylbenzene	91		11.296					ND	
116 1,2-Dichlorobenzene	146		11.339					ND	
117 1,2-Dibromo-3-Chloropropan	75		12.058					ND	
118 1,3,5-Trichlorobenzene	180		12.210					ND	
119 1,2,4-Trichlorobenzene	180		12.747					ND	
120 Hexachlorobutadiene	225		12.863					ND	
121 Naphthalene	128		12.954					ND	
122 1,2,3-Trichlorobenzene	180		13.155					ND	
142 2-Methylnaphthalene	142		13.869					ND	
135 Halothane	1		0.000					ND	
138 Pentachloroethane TIC	1		0.000					ND	
136 1-Bromopropane TIC	1		0.000					ND	
137 Ethylene oxide TIC	1		0.000					ND	
134 Propene oxide TIC	1		0.000					ND	
S 123 Total BTEX	1		30.000					0	
S 124 Xylenes, Total	1		30.000					0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 1,2-Dichloroethene, Total	1		30.000					0	
S 126 1,3-Dichloropropene, Total	1		30.000					0	
T 8 bis(2-chloromethyl)ether T	1		0.000					0	
T 129 tert-amyl alcohol TIC	1		0.000					0	
T 9 Ethylene oxide	1		0.000					0	
T 127 Ethanol TIC	45		0.000					0	
T 132 Bromoethane TIC	1		0.000					0	
T 128 Hexachloroethane TIC	1		0.000					0	
T 130 Aziridine TIC	1		0.000					0	
T 133 1-Bromopropane	1		0.000					0	
T 131 bis(chloromethyl)ether TIC	1		0.000					0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

G_8260_Surr_00074

Amount Added: 1.00

Units: uL

Run Reagent

G_8260_IS_00058

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32973.D

Injection Date: 07-Aug-2014 12:48:30

Instrument ID: HP5973G

Operator ID: CN

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

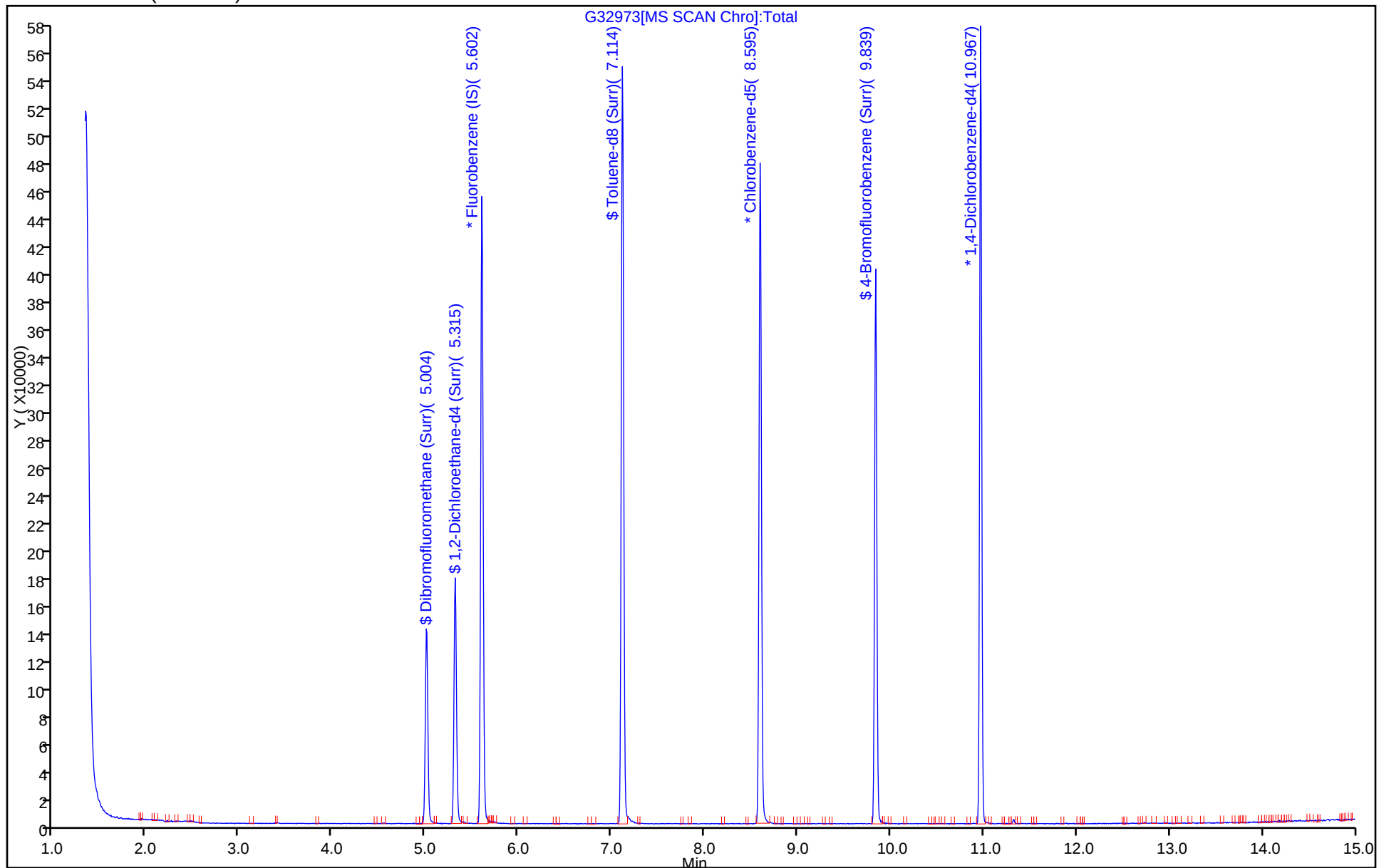
Dil. Factor: 1.0000

ALS Bottle#: 38

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-196693/5

Matrix: Water Lab File ID: G32970.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 08/07/2014 11:40

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

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

Analysis Batch No.: 196693 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	27.1		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.5		1.0	0.23
75-34-3	1,1-Dichloroethane	24.0		1.0	0.38
75-35-4	1,1-Dichloroethene	24.3		1.0	0.29
106-93-4	1,2-Dibromoethane	25.6		1.0	0.73
107-06-2	1,2-Dichloroethane	23.8		1.0	0.21
78-87-5	1,2-Dichloropropane	25.0		1.0	0.72
95-63-6	1,2,4-Trimethylbenzene	25.1		1.0	0.75
591-78-6	2-Hexanone	139		5.0	1.2
78-93-3	2-Butanone (MEK)	139		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	136		5.0	2.1
67-64-1	Acetone	132		10	3.0
71-43-2	Benzene	24.3		1.0	0.41
108-67-8	1,3,5-Trimethylbenzene	25.3		1.0	0.77
75-27-4	Bromodichloromethane	23.5		1.0	0.39
75-25-2	Bromoform	20.4		1.0	0.26
74-83-9	Bromomethane	33.8		1.0	0.69
75-15-0	Carbon disulfide	22.5		1.0	0.19
56-23-5	Carbon tetrachloride	20.8		1.0	0.27
108-90-7	Chlorobenzene	24.2		1.0	0.75
124-48-1	Dibromochloromethane	23.4		1.0	0.32
75-00-3	Chloroethane	25.2		1.0	0.32
67-66-3	Chloroform	23.6		1.0	0.34
74-87-3	Chloromethane	22.7		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.2		1.0	0.36
100-41-4	Ethylbenzene	24.5		1.0	0.74
1634-04-4	Methyl tert-butyl ether	24.7		1.0	0.16
75-09-2	Methylene Chloride	24.5		1.0	0.44
100-42-5	Styrene	24.5		1.0	0.73
127-18-4	Tetrachloroethene	24.4		1.0	0.36
108-88-3	Toluene	23.8		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	23.6		1.0	0.37
79-01-6	Trichloroethene	23.8		1.0	0.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-196693/5
 Matrix: Water Lab File ID: G32970.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 08/07/2014 11:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 196693 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	24.6		1.0	0.90
1330-20-7	Xylenes, Total	47.8		2.0	0.66
179601-23-1	m,p-Xylene	23.9		2.0	0.66
95-47-6	o-Xylene	23.9		1.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		66-137
2037-26-5	Toluene-d8 (Surr)	98		71-126
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32970.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 07-Aug-2014 11:40:30 ALS Bottle#: 35 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0034422-005480-0034422-005
 Operator ID: CN Instrument ID: HP5973G
 Method: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 07-Aug-2014 12:35:47 Calib Date: 10-Jun-2014 21:12:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Bufchrom\ChromData\HP5973G\20140610-32823.b\G31265.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: manc

Date: 07-Aug-2014 12:35:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.596	5.596	0.000	98	87051	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.595	8.595	0.000	88	182276	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.967	10.967	0.000	97	147031	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	5.005	5.005	0.000	91	90056	25.0	24.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	5.309	5.315	-0.006	0	67587	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	7.114	7.114	0.000	93	404723	25.0	24.5	
\$ 6 4-Bromofluorobenzene (Surr	174	9.839	9.839	0.000	82	110865	25.0	24.9	
10 Dichlorodifluoromethane	85	1.420	1.426	-0.006	99	142474	25.0	21.1	
12 Chloromethane	50	1.578	1.578	0.000	99	134220	25.0	22.7	
13 Vinyl chloride	62	1.694	1.694	0.000	98	136636	25.0	24.6	
144 Butadiene	54	1.725	1.725	0.000	92	120253	25.0	24.5	
14 Bromomethane	94	2.005	1.993	0.012	90	55074	25.0	33.8	
15 Chloroethane	64	2.127	2.133	-0.006	100	74394	25.0	25.2	
16 Dichlorofluoromethane	67	2.346	2.340	0.006	97	164060	25.0	31.7	
17 Trichlorofluoromethane	101	2.365	2.359	0.006	97	162969	25.0	27.7	
18 Ethyl ether	59	2.621	2.621	0.000	90	93894	25.0	25.7	
19 Acrolein	56	2.779	2.786	-0.007	99	84196	125.0	153.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.871	2.871	0.000	93	104704	25.0	23.9	
20 1,1-Dichloroethene	96	2.871	2.871	0.000	95	123111	25.0	24.3	
22 Acetone	43	2.938	2.938	0.000	99	204378	125.0	131.6	
23 Iodomethane	142	3.041	3.042	-0.001	99	131665	25.0	22.6	
24 Carbon disulfide	76	3.072	3.078	-0.006	99	317455	25.0	22.5	
26 3-Chloro-1-propene	41	3.200	3.200	0.000	90	151255	25.0	21.5	
28 Methyl acetate	43	3.243	3.243	0.000	98	526508	125.0	151.3	
29 Methylene Chloride	84	3.389	3.389	0.000	93	131061	25.0	24.5	
30 2-Methyl-2-propanol	59	3.499	3.499	0.000	99	147829	250.0	241.3	
31 Methyl tert-butyl ether	73	3.566	3.566	0.000	95	355253	25.0	24.7	
32 trans-1,2-Dichloroethene	96	3.578	3.578	0.000	98	102453	25.0	23.9	
33 Acrylonitrile	53	3.602	3.602	0.000	99	459293	250.0	265.8	
34 Hexane	57	3.791	3.791	0.000	92	152004	25.0	26.0	
36 1,1-Dichloroethane	63	3.986	3.987	0.000	97	180051	25.0	24.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	4.041	4.041	0.000	97	252401	50.0	29.3	
42 2,2-Dichloropropane	77	4.517	4.517	0.000	88	83262	25.0	22.4	
43 cis-1,2-Dichloroethene	96	4.541	4.541	0.000	82	106941	25.0	24.2	
44 2-Butanone (MEK)	43	4.566	4.566	0.000	99	302951	125.0	139.4	
48 Chlorobromomethane	128	4.773	4.773	0.000	97	48862	25.0	24.0	
49 Tetrahydrofuran	42	4.809	4.810	-0.001	87	81446	50.0	51.9	
50 Chloroform	85	4.846	4.846	0.000	94	112987	25.0	23.6	
51 1,1,1-Trichloroethane	97	4.980	4.980	0.000	98	122228	25.0	22.0	
52 Cyclohexane	56	5.005	5.005	-0.001	90	196655	25.0	24.9	
53 Carbon tetrachloride	117	5.126	5.127	-0.001	96	106146	25.0	20.8	
54 1,1-Dichloropropene	75	5.133	5.133	0.000	97	136247	25.0	24.9	
55 Isobutyl alcohol	43	5.315	5.316	-0.001	93	152337	625.0	633.0	
56 Benzene	78	5.334	5.334	0.000	97	417088	25.0	24.3	
57 1,2-Dichloroethane	62	5.382	5.383	-0.001	98	155650	25.0	23.8	
59 n-Heptane	43	5.529	5.529	0.000	92	154736	25.0	27.0	
61 Trichloroethene	95	5.943	5.943	0.000	98	100868	25.0	23.8	
62 Methylcyclohexane	83	6.084	6.084	0.000	89	180793	25.0	25.5	
63 1,2-Dichloropropane	63	6.169	6.169	0.000	92	104058	25.0	25.0	
65 Dibromomethane	93	6.303	6.303	0.000	95	62179	25.0	24.3	
66 1,4-Dioxane	88	6.321	6.321	0.000	93	23713	500.0	509.0	
67 Dichlorobromomethane	83	6.455	6.456	-0.001	99	125478	25.0	23.5	
70 2-Chloroethyl vinyl ether	63	6.736	6.736	0.000	93	78221	25.0	27.0	
72 cis-1,3-Dichloropropene	75	6.876	6.876	0.000	94	158751	25.0	23.2	
73 4-Methyl-2-pentanone (MIBK)	43	7.016	7.016	0.000	96	626927	125.0	135.7	
74 Toluene	92	7.175	7.181	-0.006	98	266596	25.0	23.8	
76 trans-1,3-Dichloropropene	75	7.437	7.437	0.000	94	142661	25.0	23.6	
78 Ethyl methacrylate	69	7.492	7.492	0.000	89	155381	25.0	25.5	
79 1,1,2-Trichloroethane	83	7.626	7.626	0.000	93	78100	25.0	25.5	
80 Tetrachloroethene	166	7.723	7.717	0.006	95	98892	25.0	24.4	
81 1,3-Dichloropropane	76	7.791	7.791	0.000	92	178550	25.0	25.4	
82 2-Hexanone	43	7.858	7.858	0.000	95	458030	125.0	139.0	
83 Chlorodibromomethane	129	8.028	8.028	0.000	90	79935	25.0	23.4	
84 Ethylene Dibromide	107	8.138	8.138	0.000	98	94928	25.0	25.6	
86 Chlorobenzene	112	8.626	8.626	0.000	92	286231	25.0	24.2	
88 1,1,1,2-Tetrachloroethane	131	8.717	8.717	0.000	90	81352	25.0	22.9	
89 Ethylbenzene	91	8.723	8.723	0.000	99	508746	25.0	24.5	
90 m-Xylene & p-Xylene	106	8.839	8.845	-0.006	0	195002	25.0	23.9	
91 o-Xylene	106	9.266	9.272	-0.006	98	187628	25.0	23.9	
92 Styrene	104	9.296	9.296	0.000	95	331997	25.0	24.5	
93 Bromoform	173	9.528	9.534	-0.006	95	44303	25.0	20.4	
95 Isopropylbenzene	105	9.650	9.650	0.000	96	509587	25.0	25.2	
97 Bromobenzene	156	9.985	9.991	-0.006	96	109567	25.0	24.4	
98 1,1,2,2-Tetrachloroethane	83	10.022	10.022	0.000	94	132612	25.0	27.1	
99 1,2,3-Trichloropropane	110	10.052	10.058	-0.006	86	44816	25.0	27.2	
100 trans-1,4-Dichloro-2-buten	53	10.071	10.071	0.000	75	41072	25.0	26.0	
101 N-Propylbenzene	91	10.071	10.071	0.000	99	609359	25.0	25.3	
102 2-Chlorotoluene	126	10.174	10.174	0.000	95	110498	25.0	24.4	
104 1,3,5-Trimethylbenzene	105	10.247	10.247	0.000	93	439328	25.0	25.3	
105 4-Chlorotoluene	126	10.284	10.284	0.000	98	116344	25.0	24.7	
106 tert-Butylbenzene	134	10.564	10.564	0.000	93	91268	25.0	24.9	
107 1,2,4-Trimethylbenzene	105	10.619	10.619	0.000	97	457772	25.0	25.1	
109 sec-Butylbenzene	105	10.772	10.772	0.000	95	561476	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.906	10.906	0.000	95	221585	25.0	24.6	
111 4-Isopropyltoluene	119	10.912	10.912	0.000	97	476619	25.0	25.7	
113 1,4-Dichlorobenzene	146	10.991	10.991	0.000	92	228331	25.0	24.5	
115 n-Butylbenzene	91	11.296	11.296	0.000	98	443200	25.0	26.0	
116 1,2-Dichlorobenzene	146	11.339	11.339	0.000	95	219985	25.0	24.8	
117 1,2-Dibromo-3-Chloropropan	75	12.058	12.058	0.000	75	25713	25.0	24.0	
119 1,2,4-Trichlorobenzene	180	12.747	12.747	0.000	93	164309	25.0	25.4	
120 Hexachlorobutadiene	225	12.863	12.863	0.000	98	71964	25.0	26.5	
121 Naphthalene	128	12.954	12.954	0.000	97	463507	25.0	24.6	
122 1,2,3-Trichlorobenzene	180	13.161	13.155	0.006	95	153636	25.0	24.6	

Reagents:

8260 CORP mix_00017	Amount Added: 12.50	Units: uL	
GAS CORP mix_00040	Amount Added: 12.50	Units: uL	
G_8260_Surr_00074	Amount Added: 1.00	Units: uL	Run Reagent
G_8260_IS_00058	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973G\20140807-34422.b\G32970.D

Injection Date: 07-Aug-2014 11:40:30

Instrument ID: HP5973G

Operator ID: CN

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

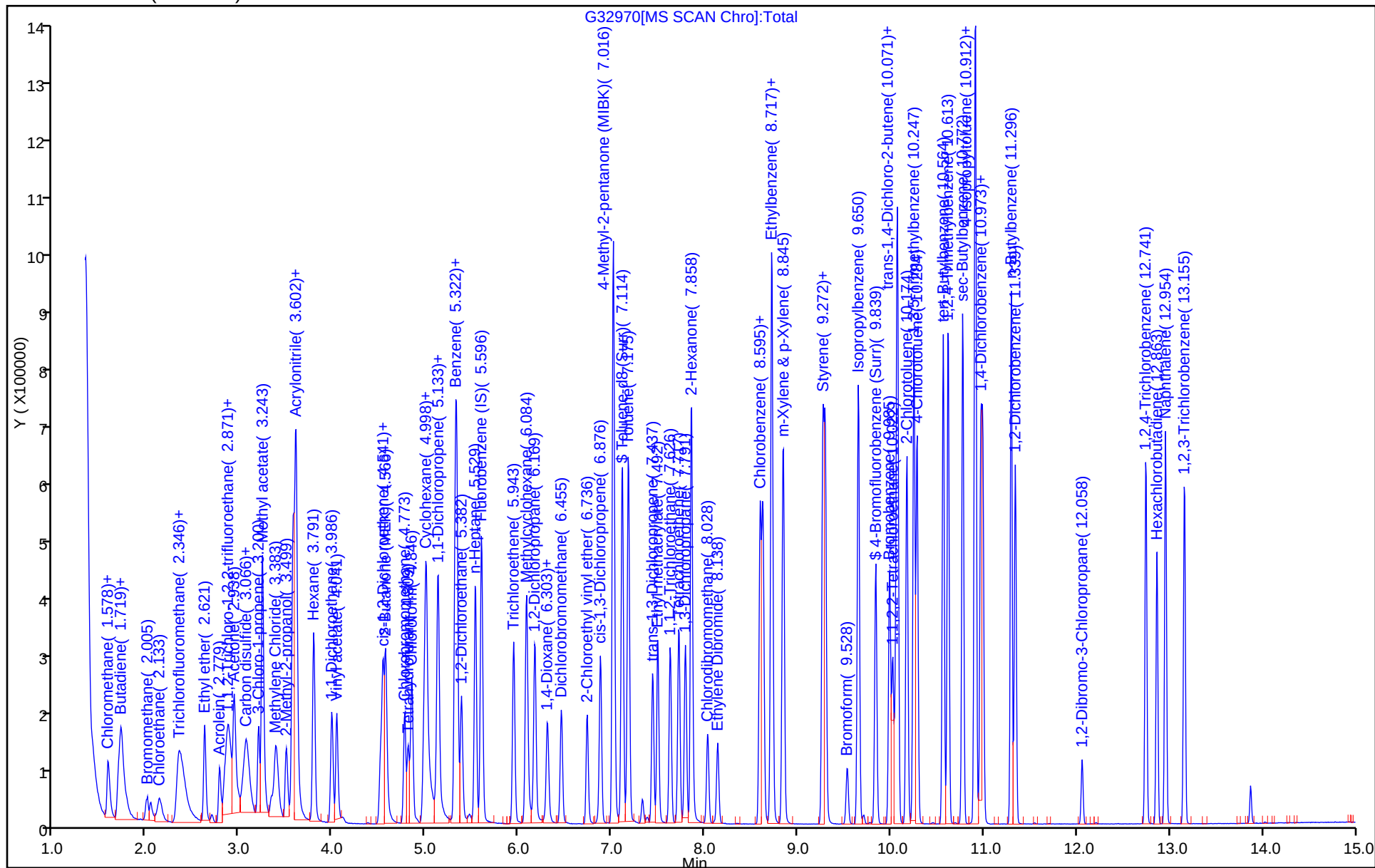
Dil. Factor: 1.0000

ALS Bottle#: 35

Method: G-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1

SDG No.: _____

Instrument ID: HP5973G Start Date: 06/10/2014 14:12Analysis Batch Number: 186834 End Date: 06/10/2014 22:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-186834/2		06/10/2014 14:12	1	G31247.D	ZB-624 (60) 0.25 (mm)
IC 480-186834/4		06/10/2014 15:07	1	G31249.D	ZB-624 (60) 0.25 (mm)
IC 480-186834/5		06/10/2014 15:30	1	G31250.D	ZB-624 (60) 0.25 (mm)
IC 480-186834/6		06/10/2014 15:53	1	G31251.D	ZB-624 (60) 0.25 (mm)
IC 480-186834/7		06/10/2014 16:16	1	G31252.D	ZB-624 (60) 0.25 (mm)
ICIS 480-186834/8		06/10/2014 16:39	1	G31253.D	ZB-624 (60) 0.25 (mm)
IC 480-186834/9		06/10/2014 17:02	1	G31254.D	ZB-624 (60) 0.25 (mm)
IC 480-186834/10		06/10/2014 17:24	1	G31255.D	ZB-624 (60) 0.25 (mm)
MDLV 480-186834/12		06/10/2014 18:10	1		ZB-624 (60) 0.25 (mm)
IC 480-186834/14		06/10/2014 18:56	1		ZB-624 (60) 0.25 (mm)
IC 480-186834/15		06/10/2014 19:18	1		ZB-624 (60) 0.25 (mm)
IC 480-186834/16		06/10/2014 19:41	1		ZB-624 (60) 0.25 (mm)
IC 480-186834/17		06/10/2014 20:04	1		ZB-624 (60) 0.25 (mm)
IC 480-186834/18		06/10/2014 20:27	1		ZB-624 (60) 0.25 (mm)
IC 480-186834/19		06/10/2014 20:49	1		ZB-624 (60) 0.25 (mm)
IC 480-186834/20		06/10/2014 21:12	1		ZB-624 (60) 0.25 (mm)
MDLV 480-186834/22		06/10/2014 21:58	1		ZB-624 (60) 0.25 (mm)
ICV 480-186834/23		06/10/2014 22:21	1		ZB-624 (60) 0.25 (mm)
ICV 480-186834/24		06/10/2014 22:44	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-64658-1

SDG No.: _____

Instrument ID: HP5973G Start Date: 08/07/2014 10:08Analysis Batch Number: 196693 End Date: 08/07/2014 21:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-196693/9		08/07/2014 10:08	1	G32967.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-196693/3		08/07/2014 10:35	1	G32968.D	ZB-624 (60) 0.25 (mm)
CCV 480-196693/4		08/07/2014 11:08	1		ZB-624 (60) 0.25 (mm)
LCS 480-196693/5		08/07/2014 11:40	1	G32970.D	ZB-624 (60) 0.25 (mm)
MDLV 480-196693/6		08/07/2014 12:03	1		ZB-624 (60) 0.25 (mm)
MB 480-196693/8		08/07/2014 12:48	1	G32973.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 13:30	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 13:52	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 14:15	25		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 14:37	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 15:22	8		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 15:45	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 16:07	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 16:30	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 16:52	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 17:14	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 17:36	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 17:58	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 18:21	1		ZB-624 (60) 0.25 (mm)
480-64658-1	WELL 1-3	08/07/2014 18:43	1	G32988.D	ZB-624 (60) 0.25 (mm)
480-64658-2	WELL 1-2	08/07/2014 19:05	1	G32989.D	ZB-624 (60) 0.25 (mm)
480-64658-3	TRIP BLANK	08/07/2014 19:27	1	G32990.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 19:50	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 20:12	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 20:34	2		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 20:56	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		08/07/2014 21:18	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA Worksheet

Batch Number: 480-196693

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Aug 07 2014 10:08AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00034	3MTP_WRK_00037
CCVIS~480-196693/3		8260C			5 mL	5 mL	HP5973G		
CCV~480-196693/4		8260C			5 mL	5 mL	HP5973G	12.5 uL	12.5 uL
LCS~480-196693/5		8260C			5 mL	5 mL	HP5973G		
MDLV~480-196693/6					5 mL	5 mL	HP5973G		
MB~480-196693/8		8260C			5 mL	5 mL	HP5973G		
BFB~480-196693/9		8260C			1 uL	1 uL	HP5973G		
480-64625-E-1	MW-TB-27 073014	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64625-E-2	MW-107 073014	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64625-E-3	PW-1 073014	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64625-E-4	OW-1 073014	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64625-E-6	MW-6 073014	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64625-E-7	MW-EPS-3 073014	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64625-E-8	DUP-01 073014	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64625-A-9	Trip Blank 1	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64625-A-10	Trip Blank 2	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64648-I-1	MW-1D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64648-I-2	MW-2U	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64648-I-2~MS	MW-2U	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64648-I-2~MSD	MW-2U	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64648-I-3	MW-4D	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64648-A-4	TB	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64658-A-1	WELL 1-3	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64658-A-2	WELL 1-2	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64658-A-3	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64891-B-3	MW-01	8260C	T	<2 SU	5 mL	5 mL	HP5973G		

GC/MS VOA Worksheet

Batch Number: 480-196693

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Aug 07 2014 10:08AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00017	ADD CORP mix_00012	BFB_WRK_00035	G_8260_IS_00058	G_8260_Surr_00074	GAS CORP mix_00040
CCVIS~480-196693/ 3		8260C		12.5 uL			1 uL	1 uL	12.5 uL
CCV~480-196693/4		8260C			12.5 uL		1 uL	1 uL	
LCS~480-196693/5		8260C		12.5 uL			1 uL	1 uL	12.5 uL
MDLV~480-196693/ 6				1 uL			1 uL	1 uL	1 uL
MB~480-196693/8		8260C					1 uL	1 uL	
BFB~480-196693/9		8260C				1 uL			
480-64625-E-1	MW-TB-27 073014	8260C	T				1 uL	1 uL	
480-64625-E-2	MW-107 073014	8260C	T				1 uL	1 uL	
480-64625-E-3	PW-1 073014	8260C	T				1 uL	1 uL	
480-64625-E-4	OW-1 073014	8260C	T				1 uL	1 uL	
480-64625-E-6	MW-6 073014	8260C	T				1 uL	1 uL	
480-64625-E-7	MW-EPS-3 073014	8260C	T				1 uL	1 uL	
480-64625-E-8	DUP-01 073014	8260C	T				1 uL	1 uL	
480-64625-A-9	Trip Blank 1	8260C	T				1 uL	1 uL	
480-64625-A-10	Trip Blank 2	8260C	T				1 uL	1 uL	
480-64648-I-1	MW-1D	8260C	T				1 uL	1 uL	
480-64648-I-2	MW-2U	8260C	T				1 uL	1 uL	
480-64648-I-2~MS	MW-2U	8260C	T	12.5 uL			1 uL	1 uL	12.5 uL
480-64648-I-2~MSD	MW-2U	8260C	T	12.5 uL			1 uL	1 uL	12.5 uL
480-64648-I-3	MW-4D	8260C	T				1 uL	1 uL	
480-64648-A-4	TB	8260C	T				1 uL	1 uL	
480-64658-A-1	WELL 1-3	8260C	T				1 uL	1 uL	
480-64658-A-2	WELL 1-2	8260C	T				1 uL	1 uL	
480-64658-A-3	TRIP BLANK	8260C	T				1 uL	1 uL	
480-64891-B-3	MW-01	8260C	T				1 uL	1 uL	

GC/MS VOA Worksheet

Batch Number: 480-196693

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Aug 07 2014 10:08AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00034	3MTP_WRK_00037
480-64891-B-12	MW-09	8260C	T	<2 SU	5 mL	5 mL	HP5973G		
480-64891-B-13	IW-07	8260C	T	<2 SU	5 mL	5 mL	HP5973G		

GC/MS VOA Worksheet

Batch Number: 480-196693

Method: 8260C

Analyst: Goliszek, Gregory T

Date Open: Aug 07 2014 10:08AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00017	ADD CORP mix_00012	BFB_WRK_00035	G_8260_IS_00058	G_8260_Surr_00074	GAS CORP mix_00040
480-64891-B-12	MW-09	8260C	T				1 uL	1 uL	
480-64891-B-13	IW-07	8260C	T				1 uL	1 uL	

Shipping and Receiving Documents

Client Information					
Sampler:	J.W. x c k e t f	Lab PVI:	Stone, Judy L	C No:	0-52387-13941.1
Phone:	607-206-6862	E-Mail:	judy.stone@testamericainc.com	ge:	age 1 of 1
Company:	AARCADIS U.S., Inc.				
Address:	630 Plaza Drive, Suite 600				
City:	Highlands Ranch				
State, Zip:	CO, 80129				
Phone:	518-250-7300	PO #:	Project 00266401.0000		
Email:	jeremy.wyckoff@arcadis-us.com	WO #:	Contract D007618		
Project Name:	NYSDEC-Standby VESTAL	Project #:	48005198		
Site:	VESTAL				
Analysis Requested					
Sample Identification	Sample Date	Sample Time	Sample Type (G=Grab)	Matrix (W=Water, S=solid, O=waste/oil, BT=Tissue, A-Air)	Preservation Code
Well 1-3	7/30/14	1400	G	Water	X
Well 1-2	7/30/14	1410	G	Water	X
Trip Blank	7/30/14	-	-	Water	X
Special Instructions/Note:					
Total Number of Containers					
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)					
Special Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:					
Relinquished by: [Signature]					
Relinquished by: [Signature]					
Relinquished by: [Signature]					
Custody Seal No.: [Blank]					
Cooler Temperature(s) °C and Other Remarks: #1 4.3					

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-64658-1

Login Number: 64658

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl 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	
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	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-66426-1

Client Project/Site: Vestal Water Supply RSO

Revision: 1

For:

ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Bruce Nelson



Authorized for release by:

9/22/2014 10:10:08 AM

Candace Fox, Manager of Project Management

(716)504-9844

candace.fox@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Job ID: 480-66426-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-66426-1

Comments

This report has been revised to add trimethylbenzene analytes not included in the original report.

Receipt

The samples were received on 8/30/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 201908 recovered outside acceptance criteria, low biased, for Cyclohexane and Methylcyclohexane. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-25S-082814 (480-66426-31), 4009-29I-082814 (480-66426-15), 4009-29S-082814 (480-66426-14), 4009-8-082814 (480-66426-28), DUP-1-082814 (480-66426-16). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria.

Method(s) 8260C: The following samples were analyzed outside of analytical holding time due to multiple instrument issues: 4009-10-082814 (480-66426-24), 4009-11-082814 (480-66426-26), 4009-11A-082814 (480-66426-25), 4009-13-082814 (480-66426-22), 4009-13A-082814 (480-66426-21), 4009-2-082814 (480-66426-30), 4009-25S-082814 (480-66426-31), 4009-27D-082814 (480-66426-20), 4009-27I-082814 (480-66426-18), 4009-27I-082814 (480-66426-18 MS), 4009-27I-082814 (480-66426-18 MSD), 4009-27S-082814 (480-66426-19), 4009-29I-082814 (480-66426-15), 4009-29S-082814 (480-66426-14), 4009-6-082814 (480-66426-27), 4009-8-082814 (480-66426-28), 4009-9-082814 (480-66426-23), DUP-1-082814 (480-66426-16).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 202220 recovered above the upper control limit for 2-Methyl-2-pentanone, Trichlorofluoromethane and 2-Butanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-202220/2).

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 10% of the analytes of interest are outside the method-defined %D criteria.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-25D-082814 (480-66426-32), 4009-25S-082814 (480-66426-31), 4009-26-082814 (480-66426-29), 4009-29D-082814 (480-66426-17), 4009-8-082814 (480-66426-28), DUP-2-082814 (480-66426-33). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 202496 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-202496/4).

Method(s) 8260C: The laboratory control sample (LCS) for batch 202496 recovered outside control limits for the following analyte: Trichlorofluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: (480-66426-36 MS), (480-66426-36 MSD), 4009-23D-082814 (480-66426-36), 4009-5-082814 (480-66426-38). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample(s) was analyzed outside of analytical holding time due to multiple instrument issues:

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Job ID: 480-66426-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

4009-23D-082814 (480-66426-36), 4009-5-082814 (480-66426-38).

Method(s) 8260C: The following samples were analyzed at too great of a dilution in their first analysis; 4009-29I-082814 (480-66426-15), DUP-1-082814 (480-66426-16). They were reanalyzed outside of analytical holding time at a lower dilution. Both sets of data have been reported here.

Method(s) 8260C: The following samples were analyzed/reanalyzed outside of analytical holding time due to multiple instrument issues: 4009-1-082814 (480-66426-41), 4009-23D-082814 (480-66426-36), 4009-23S-082814 (480-66426-35), 4009-24-082814 (480-66426-39), 4009-25D-082814 (480-66426-32), 4009-25S-082814 (480-66426-31), 4009-26-082814 (480-66426-29), 4009-29D-082814 (480-66426-17), 4009-3-082814 (480-66426-37), 4009-3-082814 (480-66426-37 MS), 4009-3-082814 (480-66426-37 MSD), 4009-4-082814 (480-66426-40), 4009-5-082814 (480-66426-38), 4009-7-082814 (480-66426-34), 4009-8-082814 (480-66426-28), DUP-2-082814 (480-66426-33), TRIP BLANK (480-66426-42).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: WELL 1-2AINF-082814

Lab Sample ID: 480-66426-1

No Detections.

Client Sample ID: WELL 1-3INF-082814

Lab Sample ID: 480-66426-2

No Detections.

Client Sample ID: WELL 1-3 EFF-082814

Lab Sample ID: 480-66426-3

No Detections.

Client Sample ID: WELL 1-2AEFF-082814

Lab Sample ID: 480-66426-4

No Detections.

Client Sample ID: FB-1-082814

Lab Sample ID: 480-66426-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.4	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-28-082814

Lab Sample ID: 480-66426-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.8	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-22-082814

Lab Sample ID: 480-66426-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11		10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.98	J	1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.83	J	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-14-082814

Lab Sample ID: 480-66426-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11		10	3.0	ug/L	1		8260C	Total/NA
Toluene	1.0		1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16A-082814

Lab Sample ID: 480-66426-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.6	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	7.2		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16-082814

Lab Sample ID: 480-66426-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.1	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	8.2		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	1.5		1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-15-082814

Lab Sample ID: 480-66426-11

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-15-082814 (Continued)

Lab Sample ID: 480-66426-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.2	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.50	J	1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.61	J	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-12-082814

Lab Sample ID: 480-66426-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.0	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.6		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	8.5		1.0	0.81	ug/L	1		8260C	Total/NA
Toluene	0.74	J	1.0	0.51	ug/L	1		8260C	Total/NA
Vinyl chloride	0.90	J	1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-12A-082814

Lab Sample ID: 480-66426-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.3		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.60	J	1.0	0.29	ug/L	1		8260C	Total/NA
Benzene	0.57	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chloroethane	7.0		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	15		1.0	0.81	ug/L	1		8260C	Total/NA
Toluene	0.53	J	1.0	0.51	ug/L	1		8260C	Total/NA
Trichloroethene	1.0		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.7		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-29S-082814

Lab Sample ID: 480-66426-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1000	E	10	8.2	ug/L	10		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	7.1	J	10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	46		10	3.8	ug/L	10		8260C	Total/NA
1,1-Dichloroethene	62		10	2.9	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	410		10	8.1	ug/L	10		8260C	Total/NA
Trichloroethene	27		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	42		10	9.0	ug/L	10		8260C	Total/NA
1,1,1-Trichloroethane - DL	1000	H	20	16	ug/L	20		8260C	Total/NA

Client Sample ID: 4009-29I-082814

Lab Sample ID: 480-66426-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	120		25	21	ug/L	25		8260C	Total/NA
1,1-Dichloroethane	19	J	25	9.5	ug/L	25		8260C	Total/NA
Benzene	36		25	10	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene	59		25	20	ug/L	25		8260C	Total/NA
Trichloroethene	31		25	12	ug/L	25		8260C	Total/NA
1,1,1-Trichloroethane - RA	130	H	2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane - RA	21	H	2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene - RA	6.4	H	2.0	0.58	ug/L	2		8260C	Total/NA
Acetone - RA	12	J H *	20	6.0	ug/L	2		8260C	Total/NA
Benzene - RA	41	H	2.0	0.82	ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-29I-082814 (Continued)

Lab Sample ID: 480-66426-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform - RA	1.1	J H	2.0	0.68	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene - RA	53	H	2.0	1.6	ug/L	2		8260C	Total/NA
Methylene Chloride - RA	1.2	J H	2.0	0.88	ug/L	2		8260C	Total/NA
Toluene - RA	3.7	H	2.0	1.0	ug/L	2		8260C	Total/NA
Trichloroethene - RA	34	H	2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride - RA	6.6	H	2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: DUP-1-082814

Lab Sample ID: 480-66426-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	98		25	21	ug/L	25		8260C	Total/NA
Benzene	37		25	10	ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene	51		25	20	ug/L	25		8260C	Total/NA
Trichloroethene	31		25	12	ug/L	25		8260C	Total/NA
1,1,1-Trichloroethane - RA	130	H	2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane - RA	20	H	2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene - RA	5.7	H	2.0	0.58	ug/L	2		8260C	Total/NA
Acetone - RA	14	J H *	20	6.0	ug/L	2		8260C	Total/NA
Benzene - RA	41	H	2.0	0.82	ug/L	2		8260C	Total/NA
Chloroform - RA	0.95	J H	2.0	0.68	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene - RA	50	H	2.0	1.6	ug/L	2		8260C	Total/NA
Methylene Chloride - RA	1.1	J H	2.0	0.88	ug/L	2		8260C	Total/NA
Toluene - RA	3.6	H	2.0	1.0	ug/L	2		8260C	Total/NA
Trichloroethene - RA	33	H	2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride - RA	6.3	H	2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: 4009-29D-082814

Lab Sample ID: 480-66426-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2100	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloroethane	0.65	J	1.0	0.23	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	14		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	160	E	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	130	E	1.0	0.29	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.72	J	1.0	0.21	ug/L	1		8260C	Total/NA
Benzene	0.72	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chloroethane	8.8		1.0	0.32	ug/L	1		8260C	Total/NA
Chloroform	0.83	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	500	E	1.0	0.81	ug/L	1		8260C	Total/NA
Dichlorodifluoromethane	1.5		1.0	0.68	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.0		1.0	0.36	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.8		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	590	E	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	150	E	1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	1200	H	20	16	ug/L	20		8260C	Total/NA
1,1-Dichloroethane - DL	150	H	20	7.6	ug/L	20		8260C	Total/NA
1,1-Dichloroethene - DL	130	H	20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene - DL	400	H	20	16	ug/L	20		8260C	Total/NA
Trichloroethene - DL	400	H	20	9.2	ug/L	20		8260C	Total/NA
Vinyl chloride - DL	170	H	20	18	ug/L	20		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-27I-082814

Lab Sample ID: 480-66426-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.3	H	1.0	0.82	ug/L	1		8260C	Total/NA
Acetone	7.9	J H *	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.71	J H	1.0	0.41	ug/L	1		8260C	Total/NA
Trichloroethene	1.2	H	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27S-082814

Lab Sample ID: 480-66426-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	65	H	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	H	1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.2	H	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	5.6	H	1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	8.1	J H *	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	19	H	1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	24	H	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27D-082814

Lab Sample ID: 480-66426-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.0	J H *	10	3.0	ug/L	1		8260C	Total/NA
Trichloroethene	0.48	J H	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-13A-082814

Lab Sample ID: 480-66426-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	H *	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-13-082814

Lab Sample ID: 480-66426-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.8	H	1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	2.7	H	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-9-082814

Lab Sample ID: 480-66426-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	H *	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.3	H	1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	13	H	1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.67	J H	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-10-082814

Lab Sample ID: 480-66426-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.5	J H *	10	3.0	ug/L	1		8260C	Total/NA
Benzene	2.3	H	1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-11A-082814

Lab Sample ID: 480-66426-25

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-11A-082814 (Continued)

Lab Sample ID: 480-66426-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	H *	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-11-082814

Lab Sample ID: 480-66426-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.9	H	1.0	0.82	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-6-082814

Lab Sample ID: 480-66426-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.8	J H *	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-8-082814

Lab Sample ID: 480-66426-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	72	H	20	7.6	ug/L	20		8260C	Total/NA
1,1-Dichloroethene	94	H	20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	550	H	20	16	ug/L	20		8260C	Total/NA
Methylene Chloride	9.1	J H	20	8.8	ug/L	20		8260C	Total/NA
Vinyl chloride	92	H	20	18	ug/L	20		8260C	Total/NA
1,1,1-Trichloroethane - DL	2900	H	40	33	ug/L	40		8260C	Total/NA

Client Sample ID: 4009-26-082814

Lab Sample ID: 480-66426-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane - DL	150	H	2.0	1.6	ug/L	2		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	6.0	H	2.0	0.62	ug/L	2		8260C	Total/NA
1,1-Dichloroethane - DL	16	H	2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene - DL	9.9	H	2.0	0.58	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene - DL	96	H	2.0	1.6	ug/L	2		8260C	Total/NA
Dichlorodifluoromethane - DL	5.0	H	2.0	1.4	ug/L	2		8260C	Total/NA
Tetrachloroethene - DL	0.97	J H	2.0	0.72	ug/L	2		8260C	Total/NA
Trichloroethene - DL	47	H	2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride - DL	13	H	2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: 4009-2-082814

Lab Sample ID: 480-66426-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.90	J H	1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.6	H	1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	9.9	J H *	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	9.0	H	1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	2.3	H	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	5.1	H	1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-25S-082814

Lab Sample ID: 480-66426-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	120	H	40	15	ug/L	40		8260C	Total/NA
1,1-Dichloroethene	650	H	40	12	ug/L	40		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-25S-082814 (Continued)

Lab Sample ID: 480-66426-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	490	H	40	32	ug/L	40		8260C	Total/NA
Trichloroethene	2900	H	40	18	ug/L	40		8260C	Total/NA
1,1,1-Trichloroethane - DL	9900	H	200	160	ug/L	200		8260C	Total/NA

Client Sample ID: 4009-25D-082814

Lab Sample ID: 480-66426-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	820	H	20	16	ug/L	20		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	19	J H	20	6.2	ug/L	20		8260C	Total/NA
1,1-Dichloroethane	53	H	20	7.6	ug/L	20		8260C	Total/NA
1,1-Dichloroethene	57	H	20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	100	H	20	16	ug/L	20		8260C	Total/NA
Trichloroethene	21	H	20	9.2	ug/L	20		8260C	Total/NA

Client Sample ID: DUP-2-082814

Lab Sample ID: 480-66426-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	810	H	10	8.2	ug/L	10		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	20	H	10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	51	H	10	3.8	ug/L	10		8260C	Total/NA
1,1-Dichloroethene	44	H	10	2.9	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	94	H	10	8.1	ug/L	10		8260C	Total/NA
Trichloroethene	16	H	10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	12	H	10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: 4009-7-082814

Lab Sample ID: 480-66426-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	H	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.41	J H	1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	36	H	1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	3.3	H	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	3.1	H	1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-23S-082814

Lab Sample ID: 480-66426-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.5	H	1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	7.2	J H	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.8	H	1.0	0.41	ug/L	1		8260C	Total/NA
Chloroethane	1.2	H *	1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9	H	1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	0.85	J H	1.0	0.18	ug/L	1		8260C	Total/NA
Isopropylbenzene	5.8	H	1.0	0.79	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.8	H	1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	1.3	H	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.1	H	1.0	0.90	ug/L	1		8260C	Total/NA
1,2,4-Trimethylbenzene	4.2	H	1.0	0.75	ug/L	1		8260C	Total/NA
1,3,5-Trimethylbenzene	4.0	H	1.0	0.77	ug/L	1		8260C	Total/NA
1,2,3-Trimethylbenzene	0.44	J H	1.0	0.26	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-23D-082814

Lab Sample ID: 480-66426-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	12	H	1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	23	H	1.0	0.29	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.39	J H	1.0	0.21	ug/L	1		8260C	Total/NA
Acetone	9.8	J H	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.62	J H	1.0	0.41	ug/L	1		8260C	Total/NA
Chloroethane	8.2	H *	1.0	0.32	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.3	H	1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	6.1	H	1.0	0.46	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	140	H	10	8.2	ug/L	10		8260C	Total/NA
1,1-Dichloroethane - DL	220	H	10	3.8	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	460	H	10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	530	H	10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: 4009-3-082814

Lab Sample ID: 480-66426-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6	H	1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	7.5	H	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1.1	H	1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	12	H	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	63	H	1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	12	H	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	33	H	1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-5-082814

Lab Sample ID: 480-66426-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3	H	1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	11	H	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.7	H	1.0	0.41	ug/L	1		8260C	Total/NA
Trichloroethene	12	H	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	14	H	1.0	0.90	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	170	H	2.0	1.6	ug/L	2		8260C	Total/NA

Client Sample ID: 4009-24-082814

Lab Sample ID: 480-66426-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.44	J H	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.2	H	1.0	0.81	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-4-082814

Lab Sample ID: 480-66426-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.0	J H	10	3.0	ug/L	1		8260C	Total/NA
Benzene	3.6	H	1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.3	H	1.0	0.81	ug/L	1		8260C	Total/NA
Toluene	0.60	J H	1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-1-082814

Lab Sample ID: 480-66426-41

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-1-082814 (Continued)

Lab Sample ID: 480-66426-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12	H	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.2	H	1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.7	H	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	1.7	H	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-66426-42

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: WELL 1-2AINF-082814

Lab Sample ID: 480-66426-1

Date Collected: 08/28/14 10:15

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 15:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 15:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 15:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 15:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 15:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 15:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 15:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 15:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 15:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 15:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 15:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 15:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 15:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 15:47	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 15:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 15:47	1
Acetone	ND		10	3.0	ug/L			09/11/14 15:47	1
Benzene	ND		1.0	0.41	ug/L			09/11/14 15:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 15:47	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 15:47	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 15:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 15:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 15:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 15:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 15:47	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 15:47	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 15:47	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 15:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 15:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 15:47	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 15:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 15:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 15:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 15:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 15:47	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 15:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 15:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 15:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 15:47	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 15:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 15:47	1
Toluene	ND		1.0	0.51	ug/L			09/11/14 15:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 15:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 15:47	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 15:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 15:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 15:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 15:47	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 15:47	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: WELL 1-2AINF-082814

Lab Sample ID: 480-66426-1

Date Collected: 08/28/14 10:15

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 15:47	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 126					09/11/14 15:47	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					09/11/14 15:47	1
4-Bromofluorobenzene (Surr)	103		73 - 120					09/11/14 15:47	1

Client Sample ID: WELL 1-3INF-082814

Lab Sample ID: 480-66426-2

Date Collected: 08/28/14 10:20

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 16:11	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 16:11	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 16:11	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 16:11	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 16:11	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 16:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 16:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 16:11	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 16:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 16:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 16:11	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 16:11	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 16:11	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 16:11	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 16:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 16:11	1
Acetone	ND		10	3.0	ug/L			09/11/14 16:11	1
Benzene	ND		1.0	0.41	ug/L			09/11/14 16:11	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 16:11	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 16:11	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 16:11	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 16:11	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 16:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 16:11	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 16:11	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 16:11	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 16:11	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 16:11	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 16:11	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 16:11	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 16:11	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 16:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 16:11	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 16:11	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 16:11	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 16:11	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: WELL 1-3INF-082814

Lab Sample ID: 480-66426-2

Date Collected: 08/28/14 10:20

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 16:11	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 16:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 16:11	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 16:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 16:11	1
Toluene	ND		1.0	0.51	ug/L			09/11/14 16:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 16:11	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 16:11	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 16:11	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 16:11	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 16:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 16:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 16:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 16:11	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 126		09/11/14 16:11	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/11/14 16:11	1
4-Bromofluorobenzene (Surr)	105		73 - 120		09/11/14 16:11	1

Client Sample ID: WELL 1-3 EFF-082814

Lab Sample ID: 480-66426-3

Date Collected: 08/28/14 10:25

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 16:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 16:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 16:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 16:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 16:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 16:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 16:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 16:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 16:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 16:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 16:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 16:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 16:35	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 16:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 16:35	1
Acetone	ND		10	3.0	ug/L			09/11/14 16:35	1
Benzene	ND		1.0	0.41	ug/L			09/11/14 16:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 16:35	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 16:35	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 16:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 16:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 16:35	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: WELL 1-3 EFF-082814

Lab Sample ID: 480-66426-3

Date Collected: 08/28/14 10:25

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 16:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 16:35	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 16:35	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 16:35	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 16:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 16:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 16:35	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 16:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 16:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 16:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 16:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 16:35	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 16:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 16:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 16:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 16:35	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 16:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 16:35	1
Toluene	ND		1.0	0.51	ug/L			09/11/14 16:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 16:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 16:35	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 16:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 16:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 16:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 16:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 16:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 16:35	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 126					09/11/14 16:35	1
1,2-Dichloroethane-d4 (Surr)	102		66 - 137					09/11/14 16:35	1
4-Bromofluorobenzene (Surr)	106		73 - 120					09/11/14 16:35	1

Client Sample ID: WELL 1-2AEFF-082814

Lab Sample ID: 480-66426-4

Date Collected: 08/28/14 10:30

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 16:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 16:58	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 16:58	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 16:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 16:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 16:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 16:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 16:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 16:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 16:58	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: WELL 1-2AEFF-082814

Lab Sample ID: 480-66426-4

Date Collected: 08/28/14 10:30

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 16:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 16:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 16:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 16:58	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 16:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 16:58	1
Acetone	ND		10	3.0	ug/L			09/11/14 16:58	1
Benzene	ND		1.0	0.41	ug/L			09/11/14 16:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 16:58	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 16:58	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 16:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 16:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 16:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 16:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 16:58	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 16:58	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 16:58	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 16:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 16:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 16:58	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 16:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 16:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 16:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 16:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 16:58	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 16:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 16:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 16:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 16:58	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 16:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 16:58	1
Toluene	ND		1.0	0.51	ug/L			09/11/14 16:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 16:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 16:58	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 16:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 16:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 16:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 16:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 16:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 16:58	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126		09/11/14 16:58	1
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		09/11/14 16:58	1
4-Bromofluorobenzene (Surr)	109		73 - 120		09/11/14 16:58	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: FB-1-082814

Lab Sample ID: 480-66426-5

Date Collected: 08/28/14 10:40

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 17:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 17:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 17:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 17:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 17:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 17:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 17:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 17:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 17:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 17:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 17:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 17:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 17:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 17:22	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 17:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 17:22	1
Acetone	8.4	J	10	3.0	ug/L			09/11/14 17:22	1
Benzene	ND		1.0	0.41	ug/L			09/11/14 17:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 17:22	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 17:22	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 17:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 17:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 17:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 17:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 17:22	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 17:22	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 17:22	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 17:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 17:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 17:22	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 17:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 17:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 17:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 17:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 17:22	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 17:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 17:22	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 17:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 17:22	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 17:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 17:22	1
Toluene	ND		1.0	0.51	ug/L			09/11/14 17:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 17:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 17:22	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 17:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 17:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 17:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 17:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 17:22	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: FB-1-082814

Lab Sample ID: 480-66426-5

Date Collected: 08/28/14 10:40

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 17:22	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 126					09/11/14 17:22	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					09/11/14 17:22	1
4-Bromofluorobenzene (Surr)	102		73 - 120					09/11/14 17:22	1

Client Sample ID: 4009-28-082814

Lab Sample ID: 480-66426-6

Date Collected: 08/28/14 11:05

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 17:46	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 17:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 17:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 17:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 17:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 17:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 17:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 17:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 17:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 17:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 17:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 17:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 17:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 17:46	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 17:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 17:46	1
Acetone	6.8 J		10	3.0	ug/L			09/11/14 17:46	1
Benzene	ND		1.0	0.41	ug/L			09/11/14 17:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 17:46	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 17:46	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 17:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 17:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 17:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 17:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 17:46	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 17:46	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 17:46	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 17:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 17:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 17:46	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 17:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 17:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 17:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 17:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 17:46	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 17:46	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-28-082814

Lab Sample ID: 480-66426-6

Date Collected: 08/28/14 11:05

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 17:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 17:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 17:46	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 17:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 17:46	1
Toluene	ND		1.0	0.51	ug/L			09/11/14 17:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 17:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 17:46	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 17:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 17:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 17:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 17:46	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 17:46	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 17:46	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 126		09/11/14 17:46	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		09/11/14 17:46	1
4-Bromofluorobenzene (Surr)	104		73 - 120		09/11/14 17:46	1

Client Sample ID: 4009-22-082814

Lab Sample ID: 480-66426-7

Date Collected: 08/28/14 11:15

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 18:10	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 18:10	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 18:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 18:10	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 18:10	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 18:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 18:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 18:10	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 18:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 18:10	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 18:10	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 18:10	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 18:10	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 18:10	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 18:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 18:10	1
Acetone	11		10	3.0	ug/L			09/11/14 18:10	1
Benzene	0.98 J		1.0	0.41	ug/L			09/11/14 18:10	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 18:10	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 18:10	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 18:10	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 18:10	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 18:10	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-22-082814

Lab Sample ID: 480-66426-7

Date Collected: 08/28/14 11:15

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 18:10	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 18:10	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 18:10	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 18:10	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 18:10	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 18:10	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 18:10	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 18:10	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 18:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 18:10	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 18:10	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 18:10	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 18:10	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 18:10	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 18:10	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 18:10	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 18:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 18:10	1
Toluene	0.83	J	1.0	0.51	ug/L			09/11/14 18:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 18:10	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 18:10	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 18:10	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 18:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 18:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 18:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 18:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 18:10	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 126					09/11/14 18:10	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					09/11/14 18:10	1
4-Bromofluorobenzene (Surr)	106		73 - 120					09/11/14 18:10	1

Client Sample ID: 4009-14-082814

Lab Sample ID: 480-66426-8

Date Collected: 08/28/14 11:20

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 18:34	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 18:34	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 18:34	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 18:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 18:34	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 18:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 18:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 18:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 18:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 18:34	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-14-082814

Lab Sample ID: 480-66426-8

Date Collected: 08/28/14 11:20

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 18:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 18:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 18:34	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 18:34	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 18:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 18:34	1
Acetone	11		10	3.0	ug/L			09/11/14 18:34	1
Benzene	ND		1.0	0.41	ug/L			09/11/14 18:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 18:34	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 18:34	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 18:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 18:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 18:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 18:34	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 18:34	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 18:34	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 18:34	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 18:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 18:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 18:34	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 18:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 18:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 18:34	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 18:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 18:34	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 18:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 18:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 18:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 18:34	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 18:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 18:34	1
Toluene	1.0		1.0	0.51	ug/L			09/11/14 18:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 18:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 18:34	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 18:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 18:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 18:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 18:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 18:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 18:34	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 126		09/11/14 18:34	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/11/14 18:34	1
4-Bromofluorobenzene (Surr)	107		73 - 120		09/11/14 18:34	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-16A-082814

Lab Sample ID: 480-66426-9

Date Collected: 08/28/14 11:30

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 18:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 18:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 18:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 18:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 18:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 18:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 18:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 18:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 18:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 18:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 18:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 18:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 18:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 18:58	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 18:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 18:58	1
Acetone	7.6	J	10	3.0	ug/L			09/11/14 18:58	1
Benzene	7.2		1.0	0.41	ug/L			09/11/14 18:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 18:58	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 18:58	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 18:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 18:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 18:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 18:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 18:58	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 18:58	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 18:58	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 18:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 18:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 18:58	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 18:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 18:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 18:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 18:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 18:58	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 18:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 18:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 18:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 18:58	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 18:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 18:58	1
Toluene	ND		1.0	0.51	ug/L			09/11/14 18:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 18:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 18:58	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 18:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 18:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 18:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 18:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 18:58	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-16A-082814

Lab Sample ID: 480-66426-9

Date Collected: 08/28/14 11:30

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 18:58	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 126					09/11/14 18:58	1
1,2-Dichloroethane-d4 (Surr)	103		66 - 137					09/11/14 18:58	1
4-Bromofluorobenzene (Surr)	103		73 - 120					09/11/14 18:58	1

Client Sample ID: 4009-16-082814

Lab Sample ID: 480-66426-10

Date Collected: 08/28/14 11:35

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 19:21	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 19:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 19:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 19:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 19:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 19:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 19:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 19:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 19:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 19:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 19:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 19:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 19:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 19:21	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 19:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 19:21	1
Acetone	7.1 J		10	3.0	ug/L			09/11/14 19:21	1
Benzene	8.2		1.0	0.41	ug/L			09/11/14 19:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 19:21	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 19:21	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 19:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 19:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 19:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 19:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 19:21	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 19:21	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 19:21	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 19:21	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 19:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 19:21	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 19:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 19:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 19:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 19:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 19:21	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 19:21	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-16-082814

Lab Sample ID: 480-66426-10

Date Collected: 08/28/14 11:35

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 19:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 19:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 19:21	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 19:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 19:21	1
Toluene	1.5		1.0	0.51	ug/L			09/11/14 19:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 19:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 19:21	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 19:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 19:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 19:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 19:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 19:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 19:21	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	104		71 - 126		09/11/14 19:21	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		66 - 137		09/11/14 19:21	1
<i>4-Bromofluorobenzene (Surr)</i>	103		73 - 120		09/11/14 19:21	1

Client Sample ID: 4009-15-082814

Lab Sample ID: 480-66426-11

Date Collected: 08/28/14 11:50

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 19:45	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 19:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 19:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 19:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 19:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 19:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 19:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 19:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 19:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 19:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 19:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 19:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 19:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 19:45	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 19:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 19:45	1
Acetone	7.2	J	10	3.0	ug/L			09/11/14 19:45	1
Benzene	0.50	J	1.0	0.41	ug/L			09/11/14 19:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 19:45	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 19:45	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 19:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 19:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 19:45	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-15-082814

Lab Sample ID: 480-66426-11

Date Collected: 08/28/14 11:50

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 19:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 19:45	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 19:45	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 19:45	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 19:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 19:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 19:45	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 19:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 19:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 19:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 19:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 19:45	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 19:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 19:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 19:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 19:45	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 19:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 19:45	1
Toluene	0.61	J	1.0	0.51	ug/L			09/11/14 19:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 19:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 19:45	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 19:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 19:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 19:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 19:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 19:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 19:45	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 126					09/11/14 19:45	1
1,2-Dichloroethane-d4 (Surr)	102		66 - 137					09/11/14 19:45	1
4-Bromofluorobenzene (Surr)	106		73 - 120					09/11/14 19:45	1

Client Sample ID: 4009-12-082814

Lab Sample ID: 480-66426-12

Date Collected: 08/28/14 12:10

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 20:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 20:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 20:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 20:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 20:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 20:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 20:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 20:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 20:09	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-12-082814

Lab Sample ID: 480-66426-12

Date Collected: 08/28/14 12:10

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 20:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 20:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 20:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 20:09	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 20:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 20:09	1
Acetone	7.0	J	10	3.0	ug/L			09/11/14 20:09	1
Benzene	1.6		1.0	0.41	ug/L			09/11/14 20:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 20:09	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 20:09	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 20:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 20:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 20:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 20:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 20:09	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 20:09	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 20:09	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 20:09	1
cis-1,2-Dichloroethene	8.5		1.0	0.81	ug/L			09/11/14 20:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 20:09	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 20:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 20:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 20:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 20:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 20:09	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 20:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 20:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 20:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 20:09	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 20:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 20:09	1
Toluene	0.74	J	1.0	0.51	ug/L			09/11/14 20:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 20:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 20:09	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 20:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 20:09	1
Vinyl chloride	0.90	J	1.0	0.90	ug/L			09/11/14 20:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 20:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 20:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 20:09	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 126		09/11/14 20:09	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/11/14 20:09	1
4-Bromofluorobenzene (Surr)	102		73 - 120		09/11/14 20:09	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-12A-082814

Lab Sample ID: 480-66426-13

Date Collected: 08/28/14 12:15

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 20:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 20:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 20:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 20:33	1
1,1-Dichloroethane	4.3		1.0	0.38	ug/L			09/11/14 20:33	1
1,1-Dichloroethene	0.60	J	1.0	0.29	ug/L			09/11/14 20:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 20:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 20:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 20:33	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 20:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 20:33	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 20:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 20:33	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 20:33	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 20:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 20:33	1
Acetone	ND		10	3.0	ug/L			09/11/14 20:33	1
Benzene	0.57	J	1.0	0.41	ug/L			09/11/14 20:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 20:33	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 20:33	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 20:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 20:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 20:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 20:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 20:33	1
Chloroethane	7.0		1.0	0.32	ug/L			09/11/14 20:33	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 20:33	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 20:33	1
cis-1,2-Dichloroethene	15		1.0	0.81	ug/L			09/11/14 20:33	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 20:33	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 20:33	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 20:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 20:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 20:33	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 20:33	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 20:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 20:33	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 20:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 20:33	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 20:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 20:33	1
Toluene	0.53	J	1.0	0.51	ug/L			09/11/14 20:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 20:33	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 20:33	1
Trichloroethene	1.0		1.0	0.46	ug/L			09/11/14 20:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 20:33	1
Vinyl chloride	1.7		1.0	0.90	ug/L			09/11/14 20:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 20:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 20:33	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-12A-082814

Lab Sample ID: 480-66426-13

Date Collected: 08/28/14 12:15

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 20:33	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		71 - 126					09/11/14 20:33	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					09/11/14 20:33	1
4-Bromofluorobenzene (Surr)	104		73 - 120					09/11/14 20:33	1

Client Sample ID: 4009-29S-082814

Lab Sample ID: 480-66426-14

Date Collected: 08/28/14 12:20

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1000	E	10	8.2	ug/L			09/11/14 20:57	10
1,1,1,2-Tetrachloroethane	ND		10	2.1	ug/L			09/11/14 20:57	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			09/11/14 20:57	10
1,1,2-Trichloro-1,2,2-trifluoroethane	7.1	J	10	3.1	ug/L			09/11/14 20:57	10
1,1-Dichloroethane	46		10	3.8	ug/L			09/11/14 20:57	10
1,1-Dichloroethene	62		10	2.9	ug/L			09/11/14 20:57	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			09/11/14 20:57	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			09/11/14 20:57	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			09/11/14 20:57	10
1,2-Dichloroethane	ND		10	2.1	ug/L			09/11/14 20:57	10
1,2-Dichloropropane	ND		10	7.2	ug/L			09/11/14 20:57	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			09/11/14 20:57	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			09/11/14 20:57	10
2-Butanone (MEK)	ND		100	13	ug/L			09/11/14 20:57	10
2-Hexanone	ND		50	12	ug/L			09/11/14 20:57	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			09/11/14 20:57	10
Acetone	ND		100	30	ug/L			09/11/14 20:57	10
Benzene	ND		10	4.1	ug/L			09/11/14 20:57	10
Bromodichloromethane	ND		10	3.9	ug/L			09/11/14 20:57	10
Bromoform	ND		10	2.6	ug/L			09/11/14 20:57	10
Bromomethane	ND		10	6.9	ug/L			09/11/14 20:57	10
Carbon disulfide	ND		10	1.9	ug/L			09/11/14 20:57	10
Carbon tetrachloride	ND		10	2.7	ug/L			09/11/14 20:57	10
Chlorobenzene	ND		10	7.5	ug/L			09/11/14 20:57	10
Dibromochloromethane	ND		10	3.2	ug/L			09/11/14 20:57	10
Chloroethane	ND		10	3.2	ug/L			09/11/14 20:57	10
Chloroform	ND		10	3.4	ug/L			09/11/14 20:57	10
Chloromethane	ND		10	3.5	ug/L			09/11/14 20:57	10
cis-1,2-Dichloroethene	410		10	8.1	ug/L			09/11/14 20:57	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			09/11/14 20:57	10
Cyclohexane	ND		10	1.8	ug/L			09/11/14 20:57	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			09/11/14 20:57	10
Ethylbenzene	ND		10	7.4	ug/L			09/11/14 20:57	10
1,2-Dibromoethane	ND		10	7.3	ug/L			09/11/14 20:57	10
Isopropylbenzene	ND		10	7.9	ug/L			09/11/14 20:57	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-29S-082814

Lab Sample ID: 480-66426-14

Date Collected: 08/28/14 12:20

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		25	5.0	ug/L			09/11/14 20:57	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			09/11/14 20:57	10
Methylcyclohexane	ND		10	1.6	ug/L			09/11/14 20:57	10
Methylene Chloride	ND		10	4.4	ug/L			09/11/14 20:57	10
Styrene	ND		10	7.3	ug/L			09/11/14 20:57	10
Tetrachloroethene	ND		10	3.6	ug/L			09/11/14 20:57	10
Toluene	ND		10	5.1	ug/L			09/11/14 20:57	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			09/11/14 20:57	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			09/11/14 20:57	10
Trichloroethene	27		10	4.6	ug/L			09/11/14 20:57	10
Trichlorofluoromethane	ND		10	8.8	ug/L			09/11/14 20:57	10
Vinyl chloride	42		10	9.0	ug/L			09/11/14 20:57	10
Xylenes, Total	ND		20	6.6	ug/L			09/11/14 20:57	10
1,2,4-Trimethylbenzene	ND		10	7.5	ug/L			09/11/14 20:57	10
1,3,5-Trimethylbenzene	ND		10	7.7	ug/L			09/11/14 20:57	10
1,2,3-Trimethylbenzene	ND		10	2.6	ug/L			09/11/14 20:57	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 126		09/11/14 20:57	10
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		09/11/14 20:57	10
4-Bromofluorobenzene (Surr)	106		73 - 120		09/11/14 20:57	10

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1000	H	20	16	ug/L			09/12/14 13:53	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126		09/12/14 13:53	20
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		09/12/14 13:53	20
4-Bromofluorobenzene (Surr)	105		73 - 120		09/12/14 13:53	20

Client Sample ID: 4009-29I-082814

Lab Sample ID: 480-66426-15

Date Collected: 08/28/14 12:25

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	120		25	21	ug/L			09/11/14 21:21	25
1,1,2,2-Tetrachloroethane	ND		25	5.3	ug/L			09/11/14 21:21	25
1,1,2-Trichloroethane	ND		25	5.8	ug/L			09/11/14 21:21	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	7.8	ug/L			09/11/14 21:21	25
1,1-Dichloroethane	19	J	25	9.5	ug/L			09/11/14 21:21	25
1,1-Dichloroethene	ND		25	7.3	ug/L			09/11/14 21:21	25
1,2,4-Trichlorobenzene	ND		25	10	ug/L			09/11/14 21:21	25
1,2-Dibromo-3-Chloropropane	ND		25	9.8	ug/L			09/11/14 21:21	25
1,2-Dichlorobenzene	ND		25	20	ug/L			09/11/14 21:21	25
1,2-Dichloroethane	ND		25	5.3	ug/L			09/11/14 21:21	25
1,2-Dichloropropane	ND		25	18	ug/L			09/11/14 21:21	25
1,3-Dichlorobenzene	ND		25	20	ug/L			09/11/14 21:21	25
1,4-Dichlorobenzene	ND		25	21	ug/L			09/11/14 21:21	25

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-291-082814

Lab Sample ID: 480-66426-15

Date Collected: 08/28/14 12:25

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		250	33	ug/L			09/11/14 21:21	25
2-Hexanone	ND		130	31	ug/L			09/11/14 21:21	25
4-Methyl-2-pentanone (MIBK)	ND		130	53	ug/L			09/11/14 21:21	25
Acetone	ND		250	75	ug/L			09/11/14 21:21	25
Benzene	36		25	10	ug/L			09/11/14 21:21	25
Bromodichloromethane	ND		25	9.8	ug/L			09/11/14 21:21	25
Bromoform	ND		25	6.5	ug/L			09/11/14 21:21	25
Bromomethane	ND		25	17	ug/L			09/11/14 21:21	25
Carbon disulfide	ND		25	4.8	ug/L			09/11/14 21:21	25
Carbon tetrachloride	ND		25	6.8	ug/L			09/11/14 21:21	25
Chlorobenzene	ND		25	19	ug/L			09/11/14 21:21	25
Dibromochloromethane	ND		25	8.0	ug/L			09/11/14 21:21	25
Chloroethane	ND		25	8.0	ug/L			09/11/14 21:21	25
Chloroform	ND		25	8.5	ug/L			09/11/14 21:21	25
Chloromethane	ND		25	8.8	ug/L			09/11/14 21:21	25
cis-1,2-Dichloroethene	59		25	20	ug/L			09/11/14 21:21	25
cis-1,3-Dichloropropene	ND		25	9.0	ug/L			09/11/14 21:21	25
Cyclohexane	ND		25	4.5	ug/L			09/11/14 21:21	25
Dichlorodifluoromethane	ND		25	17	ug/L			09/11/14 21:21	25
Ethylbenzene	ND		25	19	ug/L			09/11/14 21:21	25
1,2-Dibromoethane	ND		25	18	ug/L			09/11/14 21:21	25
Isopropylbenzene	ND		25	20	ug/L			09/11/14 21:21	25
Methyl acetate	ND		63	13	ug/L			09/11/14 21:21	25
Methyl tert-butyl ether	ND		25	4.0	ug/L			09/11/14 21:21	25
Methylcyclohexane	ND		25	4.0	ug/L			09/11/14 21:21	25
Methylene Chloride	ND		25	11	ug/L			09/11/14 21:21	25
Styrene	ND		25	18	ug/L			09/11/14 21:21	25
Tetrachloroethene	ND		25	9.0	ug/L			09/11/14 21:21	25
Toluene	ND		25	13	ug/L			09/11/14 21:21	25
trans-1,2-Dichloroethene	ND		25	23	ug/L			09/11/14 21:21	25
trans-1,3-Dichloropropene	ND		25	9.3	ug/L			09/11/14 21:21	25
Trichloroethene	31		25	12	ug/L			09/11/14 21:21	25
Trichlorofluoromethane	ND		25	22	ug/L			09/11/14 21:21	25
Vinyl chloride	ND		25	23	ug/L			09/11/14 21:21	25
Xylenes, Total	ND		50	17	ug/L			09/11/14 21:21	25
1,2,4-Trimethylbenzene	ND		25	19	ug/L			09/11/14 21:21	25
1,3,5-Trimethylbenzene	ND		25	19	ug/L			09/11/14 21:21	25
1,2,3-Trimethylbenzene	ND		25	6.5	ug/L			09/11/14 21:21	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 126		09/11/14 21:21	25
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/11/14 21:21	25
4-Bromofluorobenzene (Surr)	104		73 - 120		09/11/14 21:21	25

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	130	H	2.0	1.6	ug/L			09/12/14 14:17	2
1,1,2,2-Tetrachloroethane	ND	H	2.0	0.42	ug/L			09/12/14 14:17	2
1,1,2-Trichloroethane	ND	H	2.0	0.46	ug/L			09/12/14 14:17	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	2.0	0.62	ug/L			09/12/14 14:17	2

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-291-082814

Lab Sample ID: 480-66426-15

Date Collected: 08/28/14 12:25

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	21	H	2.0	0.76	ug/L			09/12/14 14:17	2
1,1-Dichloroethene	6.4	H	2.0	0.58	ug/L			09/12/14 14:17	2
1,2,4-Trichlorobenzene	ND	H	2.0	0.82	ug/L			09/12/14 14:17	2
1,2-Dibromo-3-Chloropropane	ND	H	2.0	0.78	ug/L			09/12/14 14:17	2
1,2-Dichlorobenzene	ND	H	2.0	1.6	ug/L			09/12/14 14:17	2
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			09/12/14 14:17	2
1,2-Dichloropropane	ND	H	2.0	1.4	ug/L			09/12/14 14:17	2
1,3-Dichlorobenzene	ND	H	2.0	1.6	ug/L			09/12/14 14:17	2
1,4-Dichlorobenzene	ND	H	2.0	1.7	ug/L			09/12/14 14:17	2
2-Butanone (MEK)	ND	H	20	2.6	ug/L			09/12/14 14:17	2
2-Hexanone	ND	H	10	2.5	ug/L			09/12/14 14:17	2
4-Methyl-2-pentanone (MIBK)	ND	H	10	4.2	ug/L			09/12/14 14:17	2
Acetone	12	J H *	20	6.0	ug/L			09/12/14 14:17	2
Benzene	41	H	2.0	0.82	ug/L			09/12/14 14:17	2
Bromodichloromethane	ND	H	2.0	0.78	ug/L			09/12/14 14:17	2
Bromoform	ND	H	2.0	0.52	ug/L			09/12/14 14:17	2
Bromomethane	ND	H	2.0	1.4	ug/L			09/12/14 14:17	2
Carbon disulfide	ND	H	2.0	0.38	ug/L			09/12/14 14:17	2
Carbon tetrachloride	ND	H	2.0	0.54	ug/L			09/12/14 14:17	2
Chlorobenzene	ND	H	2.0	1.5	ug/L			09/12/14 14:17	2
Dibromochloromethane	ND	H	2.0	0.64	ug/L			09/12/14 14:17	2
Chloroethane	ND	H	2.0	0.64	ug/L			09/12/14 14:17	2
Chloroform	1.1	J H	2.0	0.68	ug/L			09/12/14 14:17	2
Chloromethane	ND	H	2.0	0.70	ug/L			09/12/14 14:17	2
cis-1,2-Dichloroethene	53	H	2.0	1.6	ug/L			09/12/14 14:17	2
cis-1,3-Dichloropropene	ND	H	2.0	0.72	ug/L			09/12/14 14:17	2
Cyclohexane	ND	H	2.0	0.36	ug/L			09/12/14 14:17	2
Dichlorodifluoromethane	ND	H	2.0	1.4	ug/L			09/12/14 14:17	2
Ethylbenzene	ND	H	2.0	1.5	ug/L			09/12/14 14:17	2
1,2-Dibromoethane	ND	H	2.0	1.5	ug/L			09/12/14 14:17	2
Isopropylbenzene	ND	H	2.0	1.6	ug/L			09/12/14 14:17	2
Methyl acetate	ND	H	5.0	1.0	ug/L			09/12/14 14:17	2
Methyl tert-butyl ether	ND	H	2.0	0.32	ug/L			09/12/14 14:17	2
Methylcyclohexane	ND	H	2.0	0.32	ug/L			09/12/14 14:17	2
Methylene Chloride	1.2	J H	2.0	0.88	ug/L			09/12/14 14:17	2
Styrene	ND	H	2.0	1.5	ug/L			09/12/14 14:17	2
Tetrachloroethene	ND	H	2.0	0.72	ug/L			09/12/14 14:17	2
Toluene	3.7	H	2.0	1.0	ug/L			09/12/14 14:17	2
trans-1,2-Dichloroethene	ND	H	2.0	1.8	ug/L			09/12/14 14:17	2
trans-1,3-Dichloropropene	ND	H	2.0	0.74	ug/L			09/12/14 14:17	2
Trichloroethene	34	H	2.0	0.92	ug/L			09/12/14 14:17	2
Trichlorofluoromethane	ND	H	2.0	1.8	ug/L			09/12/14 14:17	2
Vinyl chloride	6.6	H	2.0	1.8	ug/L			09/12/14 14:17	2
Xylenes, Total	ND	H	4.0	1.3	ug/L			09/12/14 14:17	2
1,2,4-Trimethylbenzene	ND	H	2.0	1.5	ug/L			09/12/14 14:17	2
1,3,5-Trimethylbenzene	ND	H	2.0	1.5	ug/L			09/12/14 14:17	2
1,2,3-Trimethylbenzene	ND	H	2.0	0.52	ug/L			09/12/14 14:17	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126		09/12/14 14:17	2

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-291-082814

Lab Sample ID: 480-66426-15

Date Collected: 08/28/14 12:25

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		09/12/14 14:17	2
4-Bromofluorobenzene (Surr)	106		73 - 120		09/12/14 14:17	2

Client Sample ID: DUP-1-082814

Lab Sample ID: 480-66426-16

Date Collected: 08/28/14 00:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	98		25	21	ug/L			09/11/14 21:44	25
1,1,2,2-Tetrachloroethane	ND		25	5.3	ug/L			09/11/14 21:44	25
1,1,2-Trichloroethane	ND		25	5.8	ug/L			09/11/14 21:44	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	7.8	ug/L			09/11/14 21:44	25
1,1-Dichloroethane	ND		25	9.5	ug/L			09/11/14 21:44	25
1,1-Dichloroethene	ND		25	7.3	ug/L			09/11/14 21:44	25
1,2,4-Trichlorobenzene	ND		25	10	ug/L			09/11/14 21:44	25
1,2-Dibromo-3-Chloropropane	ND		25	9.8	ug/L			09/11/14 21:44	25
1,2-Dichlorobenzene	ND		25	20	ug/L			09/11/14 21:44	25
1,2-Dichloroethane	ND		25	5.3	ug/L			09/11/14 21:44	25
1,2-Dichloropropane	ND		25	18	ug/L			09/11/14 21:44	25
1,3-Dichlorobenzene	ND		25	20	ug/L			09/11/14 21:44	25
1,4-Dichlorobenzene	ND		25	21	ug/L			09/11/14 21:44	25
2-Butanone (MEK)	ND		250	33	ug/L			09/11/14 21:44	25
2-Hexanone	ND		130	31	ug/L			09/11/14 21:44	25
4-Methyl-2-pentanone (MIBK)	ND		130	53	ug/L			09/11/14 21:44	25
Acetone	ND		250	75	ug/L			09/11/14 21:44	25
Benzene	37		25	10	ug/L			09/11/14 21:44	25
Bromodichloromethane	ND		25	9.8	ug/L			09/11/14 21:44	25
Bromoform	ND		25	6.5	ug/L			09/11/14 21:44	25
Bromomethane	ND		25	17	ug/L			09/11/14 21:44	25
Carbon disulfide	ND		25	4.8	ug/L			09/11/14 21:44	25
Carbon tetrachloride	ND		25	6.8	ug/L			09/11/14 21:44	25
Chlorobenzene	ND		25	19	ug/L			09/11/14 21:44	25
Dibromochloromethane	ND		25	8.0	ug/L			09/11/14 21:44	25
Chloroethane	ND		25	8.0	ug/L			09/11/14 21:44	25
Chloroform	ND		25	8.5	ug/L			09/11/14 21:44	25
Chloromethane	ND		25	8.8	ug/L			09/11/14 21:44	25
cis-1,2-Dichloroethene	51		25	20	ug/L			09/11/14 21:44	25
cis-1,3-Dichloropropene	ND		25	9.0	ug/L			09/11/14 21:44	25
Cyclohexane	ND		25	4.5	ug/L			09/11/14 21:44	25
Dichlorodifluoromethane	ND		25	17	ug/L			09/11/14 21:44	25
Ethylbenzene	ND		25	19	ug/L			09/11/14 21:44	25
1,2-Dibromoethane	ND		25	18	ug/L			09/11/14 21:44	25
Isopropylbenzene	ND		25	20	ug/L			09/11/14 21:44	25
Methyl acetate	ND		63	13	ug/L			09/11/14 21:44	25
Methyl tert-butyl ether	ND		25	4.0	ug/L			09/11/14 21:44	25
Methylcyclohexane	ND		25	4.0	ug/L			09/11/14 21:44	25
Methylene Chloride	ND		25	11	ug/L			09/11/14 21:44	25
Styrene	ND		25	18	ug/L			09/11/14 21:44	25

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: DUP-1-082814

Lab Sample ID: 480-66426-16

Date Collected: 08/28/14 00:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		25	9.0	ug/L			09/11/14 21:44	25
Toluene	ND		25	13	ug/L			09/11/14 21:44	25
trans-1,2-Dichloroethene	ND		25	23	ug/L			09/11/14 21:44	25
trans-1,3-Dichloropropene	ND		25	9.3	ug/L			09/11/14 21:44	25
Trichloroethene	31		25	12	ug/L			09/11/14 21:44	25
Trichlorofluoromethane	ND		25	22	ug/L			09/11/14 21:44	25
Vinyl chloride	ND		25	23	ug/L			09/11/14 21:44	25
Xylenes, Total	ND		50	17	ug/L			09/11/14 21:44	25
1,2,4-Trimethylbenzene	ND		25	19	ug/L			09/11/14 21:44	25
1,3,5-Trimethylbenzene	ND		25	19	ug/L			09/11/14 21:44	25
1,2,3-Trimethylbenzene	ND		25	6.5	ug/L			09/11/14 21:44	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		71 - 126		09/11/14 21:44	25
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		09/11/14 21:44	25
4-Bromofluorobenzene (Surr)	106		73 - 120		09/11/14 21:44	25

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	130	H	2.0	1.6	ug/L			09/12/14 14:40	2
1,1,2,2-Tetrachloroethane	ND	H	2.0	0.42	ug/L			09/12/14 14:40	2
1,1,2-Trichloroethane	ND	H	2.0	0.46	ug/L			09/12/14 14:40	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	2.0	0.62	ug/L			09/12/14 14:40	2
1,1-Dichloroethane	20	H	2.0	0.76	ug/L			09/12/14 14:40	2
1,1-Dichloroethene	5.7	H	2.0	0.58	ug/L			09/12/14 14:40	2
1,2,4-Trichlorobenzene	ND	H	2.0	0.82	ug/L			09/12/14 14:40	2
1,2-Dibromo-3-Chloropropane	ND	H	2.0	0.78	ug/L			09/12/14 14:40	2
1,2-Dichlorobenzene	ND	H	2.0	1.6	ug/L			09/12/14 14:40	2
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			09/12/14 14:40	2
1,2-Dichloropropane	ND	H	2.0	1.4	ug/L			09/12/14 14:40	2
1,3-Dichlorobenzene	ND	H	2.0	1.6	ug/L			09/12/14 14:40	2
1,4-Dichlorobenzene	ND	H	2.0	1.7	ug/L			09/12/14 14:40	2
2-Butanone (MEK)	ND	H	20	2.6	ug/L			09/12/14 14:40	2
2-Hexanone	ND	H	10	2.5	ug/L			09/12/14 14:40	2
4-Methyl-2-pentanone (MIBK)	ND	H	10	4.2	ug/L			09/12/14 14:40	2
Acetone	14	J H *	20	6.0	ug/L			09/12/14 14:40	2
Benzene	41	H	2.0	0.82	ug/L			09/12/14 14:40	2
Bromodichloromethane	ND	H	2.0	0.78	ug/L			09/12/14 14:40	2
Bromoform	ND	H	2.0	0.52	ug/L			09/12/14 14:40	2
Bromomethane	ND	H	2.0	1.4	ug/L			09/12/14 14:40	2
Carbon disulfide	ND	H	2.0	0.38	ug/L			09/12/14 14:40	2
Carbon tetrachloride	ND	H	2.0	0.54	ug/L			09/12/14 14:40	2
Chlorobenzene	ND	H	2.0	1.5	ug/L			09/12/14 14:40	2
Dibromochloromethane	ND	H	2.0	0.64	ug/L			09/12/14 14:40	2
Chloroethane	ND	H	2.0	0.64	ug/L			09/12/14 14:40	2
Chloroform	0.95	J H	2.0	0.68	ug/L			09/12/14 14:40	2
Chloromethane	ND	H	2.0	0.70	ug/L			09/12/14 14:40	2
cis-1,2-Dichloroethene	50	H	2.0	1.6	ug/L			09/12/14 14:40	2
cis-1,3-Dichloropropene	ND	H	2.0	0.72	ug/L			09/12/14 14:40	2
Cyclohexane	ND	H	2.0	0.36	ug/L			09/12/14 14:40	2

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: DUP-1-082814

Lab Sample ID: 480-66426-16

Date Collected: 08/28/14 00:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS - RA (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	H	2.0	1.4	ug/L			09/12/14 14:40	2
Ethylbenzene	ND	H	2.0	1.5	ug/L			09/12/14 14:40	2
1,2-Dibromoethane	ND	H	2.0	1.5	ug/L			09/12/14 14:40	2
Isopropylbenzene	ND	H	2.0	1.6	ug/L			09/12/14 14:40	2
Methyl acetate	ND	H	5.0	1.0	ug/L			09/12/14 14:40	2
Methyl tert-butyl ether	ND	H	2.0	0.32	ug/L			09/12/14 14:40	2
Methylcyclohexane	ND	H	2.0	0.32	ug/L			09/12/14 14:40	2
Methylene Chloride	1.1	J H	2.0	0.88	ug/L			09/12/14 14:40	2
Styrene	ND	H	2.0	1.5	ug/L			09/12/14 14:40	2
Tetrachloroethene	ND	H	2.0	0.72	ug/L			09/12/14 14:40	2
Toluene	3.6	H	2.0	1.0	ug/L			09/12/14 14:40	2
trans-1,2-Dichloroethene	ND	H	2.0	1.8	ug/L			09/12/14 14:40	2
trans-1,3-Dichloropropene	ND	H	2.0	0.74	ug/L			09/12/14 14:40	2
Trichloroethene	33	H	2.0	0.92	ug/L			09/12/14 14:40	2
Trichlorofluoromethane	ND	H	2.0	1.8	ug/L			09/12/14 14:40	2
Vinyl chloride	6.3	H	2.0	1.8	ug/L			09/12/14 14:40	2
Xylenes, Total	ND	H	4.0	1.3	ug/L			09/12/14 14:40	2
1,2,4-Trimethylbenzene	ND	H	2.0	1.5	ug/L			09/12/14 14:40	2
1,3,5-Trimethylbenzene	ND	H	2.0	1.5	ug/L			09/12/14 14:40	2
1,2,3-Trimethylbenzene	ND	H	2.0	0.52	ug/L			09/12/14 14:40	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 126					09/12/14 14:40	2
1,2-Dichloroethane-d4 (Surr)	102		66 - 137					09/12/14 14:40	2
4-Bromofluorobenzene (Surr)	106		73 - 120					09/12/14 14:40	2

Client Sample ID: 4009-29D-082814

Lab Sample ID: 480-66426-17

Date Collected: 08/28/14 12:30

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2100	E	1.0	0.82	ug/L			09/11/14 22:07	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 22:07	1
1,1,2-Trichloroethane	0.65	J	1.0	0.23	ug/L			09/11/14 22:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	14		1.0	0.31	ug/L			09/11/14 22:07	1
1,1-Dichloroethane	160	E	1.0	0.38	ug/L			09/11/14 22:07	1
1,1-Dichloroethene	130	E	1.0	0.29	ug/L			09/11/14 22:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 22:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 22:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 22:07	1
1,2-Dichloroethane	0.72	J	1.0	0.21	ug/L			09/11/14 22:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 22:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 22:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 22:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 22:07	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 22:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 22:07	1
Acetone	ND		10	3.0	ug/L			09/11/14 22:07	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-29D-082814

Lab Sample ID: 480-66426-17

Date Collected: 08/28/14 12:30

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.72	J	1.0	0.41	ug/L			09/11/14 22:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 22:07	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 22:07	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 22:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 22:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 22:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 22:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 22:07	1
Chloroethane	8.8		1.0	0.32	ug/L			09/11/14 22:07	1
Chloroform	0.83	J	1.0	0.34	ug/L			09/11/14 22:07	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 22:07	1
cis-1,2-Dichloroethene	500	E	1.0	0.81	ug/L			09/11/14 22:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 22:07	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 22:07	1
Dichlorodifluoromethane	1.5		1.0	0.68	ug/L			09/11/14 22:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 22:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 22:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 22:07	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 22:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 22:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 22:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 22:07	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 22:07	1
Tetrachloroethene	1.0		1.0	0.36	ug/L			09/11/14 22:07	1
Toluene	ND		1.0	0.51	ug/L			09/11/14 22:07	1
trans-1,2-Dichloroethene	1.8		1.0	0.90	ug/L			09/11/14 22:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 22:07	1
Trichloroethene	590	E	1.0	0.46	ug/L			09/11/14 22:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 22:07	1
Vinyl chloride	150	E	1.0	0.90	ug/L			09/11/14 22:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 22:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 22:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 22:07	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126		09/11/14 22:07	1
1,2-Dichloroethane-d4 (Surr)	95		66 - 137		09/11/14 22:07	1
4-Bromofluorobenzene (Surr)	105		73 - 120		09/11/14 22:07	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1200	H	20	16	ug/L			09/13/14 08:13	20
1,1-Dichloroethane	150	H	20	7.6	ug/L			09/13/14 08:13	20
1,1-Dichloroethene	130	H	20	5.8	ug/L			09/13/14 08:13	20
cis-1,2-Dichloroethene	400	H	20	16	ug/L			09/13/14 08:13	20
Trichloroethene	400	H	20	9.2	ug/L			09/13/14 08:13	20
Vinyl chloride	170	H	20	18	ug/L			09/13/14 08:13	20

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-29D-082814

Lab Sample ID: 480-66426-17

Date Collected: 08/28/14 12:30

Matrix: Water

Date Received: 08/30/14 09:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		71 - 126		09/13/14 08:13	20
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/13/14 08:13	20
4-Bromofluorobenzene (Surr)	106		73 - 120		09/13/14 08:13	20

Client Sample ID: 4009-27I-082814

Lab Sample ID: 480-66426-18

Date Collected: 08/28/14 12:45

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.3	H	1.0	0.82	ug/L			09/12/14 15:07	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 15:07	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 15:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/12/14 15:07	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/12/14 15:07	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/12/14 15:07	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 15:07	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 15:07	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 15:07	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 15:07	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 15:07	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 15:07	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 15:07	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 15:07	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 15:07	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 15:07	1
Acetone	7.9	J H *	10	3.0	ug/L			09/12/14 15:07	1
Benzene	0.71	J H	1.0	0.41	ug/L			09/12/14 15:07	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 15:07	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 15:07	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 15:07	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 15:07	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 15:07	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 15:07	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 15:07	1
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 15:07	1
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 15:07	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 15:07	1
cis-1,2-Dichloroethene	ND	H	1.0	0.81	ug/L			09/12/14 15:07	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 15:07	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 15:07	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 15:07	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 15:07	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 15:07	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 15:07	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 15:07	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 15:07	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 15:07	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 15:07	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 15:07	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-271-082814

Lab Sample ID: 480-66426-18

Date Collected: 08/28/14 12:45

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 15:07	1
Toluene	ND	H	1.0	0.51	ug/L			09/12/14 15:07	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 15:07	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 15:07	1
Trichloroethene	1.2	H	1.0	0.46	ug/L			09/12/14 15:07	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 15:07	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/12/14 15:07	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 15:07	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 15:07	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 15:07	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 126		09/12/14 15:07	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		09/12/14 15:07	1
4-Bromofluorobenzene (Surr)	104		73 - 120		09/12/14 15:07	1

Client Sample ID: 4009-27S-082814

Lab Sample ID: 480-66426-19

Date Collected: 08/28/14 12:50

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	65	H	1.0	0.82	ug/L			09/12/14 16:43	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 16:43	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 16:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	H	1.0	0.31	ug/L			09/12/14 16:43	1
1,1-Dichloroethane	2.2	H	1.0	0.38	ug/L			09/12/14 16:43	1
1,1-Dichloroethene	5.6	H	1.0	0.29	ug/L			09/12/14 16:43	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 16:43	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 16:43	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 16:43	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 16:43	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 16:43	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 16:43	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 16:43	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 16:43	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 16:43	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 16:43	1
Acetone	8.1	J H *	10	3.0	ug/L			09/12/14 16:43	1
Benzene	ND	H	1.0	0.41	ug/L			09/12/14 16:43	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 16:43	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 16:43	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 16:43	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 16:43	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 16:43	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 16:43	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 16:43	1
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 16:43	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-27S-082814

Lab Sample ID: 480-66426-19

Date Collected: 08/28/14 12:50

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 16:43	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 16:43	1
cis-1,2-Dichloroethene	19	H	1.0	0.81	ug/L			09/12/14 16:43	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 16:43	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 16:43	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 16:43	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 16:43	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 16:43	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 16:43	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 16:43	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 16:43	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 16:43	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 16:43	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 16:43	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 16:43	1
Toluene	ND	H	1.0	0.51	ug/L			09/12/14 16:43	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 16:43	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 16:43	1
Trichloroethene	24	H	1.0	0.46	ug/L			09/12/14 16:43	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 16:43	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/12/14 16:43	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 16:43	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 16:43	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 16:43	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 126					09/12/14 16:43	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					09/12/14 16:43	1
4-Bromofluorobenzene (Surr)	103		73 - 120					09/12/14 16:43	1

Client Sample ID: 4009-27D-082814

Lab Sample ID: 480-66426-20

Date Collected: 08/28/14 12:55

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/12/14 17:06	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 17:06	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 17:06	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/12/14 17:06	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/12/14 17:06	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/12/14 17:06	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 17:06	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 17:06	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 17:06	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 17:06	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 17:06	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 17:06	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 17:06	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-27D-082814

Lab Sample ID: 480-66426-20

Date Collected: 08/28/14 12:55

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 17:06	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 17:06	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 17:06	1
Acetone	8.0	J H *	10	3.0	ug/L			09/12/14 17:06	1
Benzene	ND	H	1.0	0.41	ug/L			09/12/14 17:06	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 17:06	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 17:06	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 17:06	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 17:06	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 17:06	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 17:06	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 17:06	1
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 17:06	1
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 17:06	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 17:06	1
cis-1,2-Dichloroethene	ND	H	1.0	0.81	ug/L			09/12/14 17:06	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 17:06	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 17:06	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 17:06	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 17:06	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 17:06	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 17:06	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 17:06	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 17:06	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 17:06	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 17:06	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 17:06	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 17:06	1
Toluene	ND	H	1.0	0.51	ug/L			09/12/14 17:06	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 17:06	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 17:06	1
Trichloroethene	0.48	J H	1.0	0.46	ug/L			09/12/14 17:06	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 17:06	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/12/14 17:06	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 17:06	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 17:06	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 17:06	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 126		09/12/14 17:06	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/12/14 17:06	1
4-Bromofluorobenzene (Surr)	104		73 - 120		09/12/14 17:06	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-13A-082814

Lab Sample ID: 480-66426-21

Date Collected: 08/28/14 13:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/12/14 17:30	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 17:30	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 17:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/12/14 17:30	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/12/14 17:30	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/12/14 17:30	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 17:30	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 17:30	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 17:30	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 17:30	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 17:30	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 17:30	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 17:30	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 17:30	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 17:30	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 17:30	1
Acetone	11	H *	10	3.0	ug/L			09/12/14 17:30	1
Benzene	ND	H	1.0	0.41	ug/L			09/12/14 17:30	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 17:30	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 17:30	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 17:30	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 17:30	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 17:30	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 17:30	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 17:30	1
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 17:30	1
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 17:30	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 17:30	1
cis-1,2-Dichloroethene	ND	H	1.0	0.81	ug/L			09/12/14 17:30	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 17:30	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 17:30	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 17:30	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 17:30	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 17:30	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 17:30	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 17:30	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 17:30	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 17:30	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 17:30	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 17:30	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 17:30	1
Toluene	ND	H	1.0	0.51	ug/L			09/12/14 17:30	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 17:30	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 17:30	1
Trichloroethene	ND	H	1.0	0.46	ug/L			09/12/14 17:30	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 17:30	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/12/14 17:30	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 17:30	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 17:30	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-13A-082814

Lab Sample ID: 480-66426-21

Date Collected: 08/28/14 13:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 17:30	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 126					09/12/14 17:30	1
1,2-Dichloroethane-d4 (Surr)	104		66 - 137					09/12/14 17:30	1
4-Bromofluorobenzene (Surr)	105		73 - 120					09/12/14 17:30	1

Client Sample ID: 4009-13-082814

Lab Sample ID: 480-66426-22

Date Collected: 08/28/14 13:05

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/12/14 17:54	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 17:54	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 17:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/12/14 17:54	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/12/14 17:54	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/12/14 17:54	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 17:54	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 17:54	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 17:54	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 17:54	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 17:54	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 17:54	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 17:54	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 17:54	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 17:54	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 17:54	1
Acetone	ND	H *	10	3.0	ug/L			09/12/14 17:54	1
Benzene	4.8	H	1.0	0.41	ug/L			09/12/14 17:54	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 17:54	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 17:54	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 17:54	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 17:54	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 17:54	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 17:54	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 17:54	1
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 17:54	1
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 17:54	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 17:54	1
cis-1,2-Dichloroethene	ND	H	1.0	0.81	ug/L			09/12/14 17:54	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 17:54	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 17:54	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 17:54	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 17:54	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 17:54	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 17:54	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 17:54	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-13-082814

Lab Sample ID: 480-66426-22

Date Collected: 08/28/14 13:05

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 17:54	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 17:54	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 17:54	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 17:54	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 17:54	1
Toluene	2.7	H	1.0	0.51	ug/L			09/12/14 17:54	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 17:54	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 17:54	1
Trichloroethene	ND	H	1.0	0.46	ug/L			09/12/14 17:54	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 17:54	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/12/14 17:54	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 17:54	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 17:54	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 17:54	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		71 - 126		09/12/14 17:54	1
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		09/12/14 17:54	1
4-Bromofluorobenzene (Surr)	105		73 - 120		09/12/14 17:54	1

Client Sample ID: 4009-9-082814

Lab Sample ID: 480-66426-23

Date Collected: 08/28/14 13:50

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/12/14 18:18	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 18:18	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 18:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/12/14 18:18	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/12/14 18:18	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/12/14 18:18	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 18:18	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 18:18	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 18:18	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 18:18	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 18:18	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 18:18	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 18:18	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 18:18	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 18:18	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 18:18	1
Acetone	11	H *	10	3.0	ug/L			09/12/14 18:18	1
Benzene	1.3	H	1.0	0.41	ug/L			09/12/14 18:18	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 18:18	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 18:18	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 18:18	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 18:18	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 18:18	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-9-082814

Lab Sample ID: 480-66426-23

Date Collected: 08/28/14 13:50

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 18:18	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 18:18	1
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 18:18	1
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 18:18	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 18:18	1
cis-1,2-Dichloroethene	13	H	1.0	0.81	ug/L			09/12/14 18:18	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 18:18	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 18:18	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 18:18	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 18:18	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 18:18	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 18:18	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 18:18	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 18:18	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 18:18	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 18:18	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 18:18	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 18:18	1
Toluene	ND	H	1.0	0.51	ug/L			09/12/14 18:18	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 18:18	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 18:18	1
Trichloroethene	0.67	J H	1.0	0.46	ug/L			09/12/14 18:18	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 18:18	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/12/14 18:18	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 18:18	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 18:18	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 18:18	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126		09/12/14 18:18	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/12/14 18:18	1
4-Bromofluorobenzene (Surr)	104		73 - 120		09/12/14 18:18	1

Client Sample ID: 4009-10-082814

Lab Sample ID: 480-66426-24

Date Collected: 08/28/14 13:55

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/12/14 18:41	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 18:41	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 18:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/12/14 18:41	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/12/14 18:41	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/12/14 18:41	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 18:41	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 18:41	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 18:41	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 18:41	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-10-082814

Lab Sample ID: 480-66426-24

Date Collected: 08/28/14 13:55

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 18:41	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 18:41	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 18:41	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 18:41	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 18:41	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 18:41	1
Acetone	7.5	J H *	10	3.0	ug/L			09/12/14 18:41	1
Benzene	2.3	H	1.0	0.41	ug/L			09/12/14 18:41	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 18:41	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 18:41	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 18:41	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 18:41	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 18:41	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 18:41	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 18:41	1
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 18:41	1
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 18:41	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 18:41	1
cis-1,2-Dichloroethene	ND	H	1.0	0.81	ug/L			09/12/14 18:41	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 18:41	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 18:41	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 18:41	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 18:41	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 18:41	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 18:41	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 18:41	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 18:41	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 18:41	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 18:41	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 18:41	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 18:41	1
Toluene	ND	H	1.0	0.51	ug/L			09/12/14 18:41	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 18:41	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 18:41	1
Trichloroethene	ND	H	1.0	0.46	ug/L			09/12/14 18:41	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 18:41	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/12/14 18:41	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 18:41	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 18:41	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 18:41	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126		09/12/14 18:41	1
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		09/12/14 18:41	1
4-Bromofluorobenzene (Surr)	106		73 - 120		09/12/14 18:41	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-11A-082814

Lab Sample ID: 480-66426-25

Date Collected: 08/28/14 14:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/12/14 19:05	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 19:05	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 19:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/12/14 19:05	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/12/14 19:05	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/12/14 19:05	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 19:05	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 19:05	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 19:05	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 19:05	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 19:05	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 19:05	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 19:05	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 19:05	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 19:05	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 19:05	1
Acetone	10	H *	10	3.0	ug/L			09/12/14 19:05	1
Benzene	ND	H	1.0	0.41	ug/L			09/12/14 19:05	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 19:05	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 19:05	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 19:05	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 19:05	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 19:05	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 19:05	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 19:05	1
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 19:05	1
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 19:05	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 19:05	1
cis-1,2-Dichloroethene	ND	H	1.0	0.81	ug/L			09/12/14 19:05	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 19:05	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 19:05	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 19:05	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 19:05	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 19:05	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 19:05	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 19:05	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 19:05	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 19:05	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 19:05	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 19:05	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 19:05	1
Toluene	ND	H	1.0	0.51	ug/L			09/12/14 19:05	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 19:05	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 19:05	1
Trichloroethene	ND	H	1.0	0.46	ug/L			09/12/14 19:05	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 19:05	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/12/14 19:05	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 19:05	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 19:05	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-11A-082814

Lab Sample ID: 480-66426-25

Date Collected: 08/28/14 14:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 19:05	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 19:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126					09/12/14 19:05	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					09/12/14 19:05	1
4-Bromofluorobenzene (Surr)	103		73 - 120					09/12/14 19:05	1

Client Sample ID: 4009-11-082814

Lab Sample ID: 480-66426-26

Date Collected: 08/28/14 14:05

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.9	H	1.0	0.82	ug/L			09/12/14 19:29	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 19:29	1
1,1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 19:29	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/12/14 19:29	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/12/14 19:29	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/12/14 19:29	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 19:29	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 19:29	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 19:29	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 19:29	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 19:29	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 19:29	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 19:29	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 19:29	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 19:29	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 19:29	1
Acetone	ND	H *	10	3.0	ug/L			09/12/14 19:29	1
Benzene	ND	H	1.0	0.41	ug/L			09/12/14 19:29	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 19:29	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 19:29	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 19:29	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 19:29	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 19:29	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 19:29	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 19:29	1
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 19:29	1
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 19:29	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 19:29	1
cis-1,2-Dichloroethene	ND	H	1.0	0.81	ug/L			09/12/14 19:29	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 19:29	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 19:29	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 19:29	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 19:29	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 19:29	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 19:29	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 19:29	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-11-082814

Lab Sample ID: 480-66426-26

Date Collected: 08/28/14 14:05

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 19:29	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 19:29	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 19:29	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 19:29	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 19:29	1
Toluene	ND	H	1.0	0.51	ug/L			09/12/14 19:29	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 19:29	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 19:29	1
Trichloroethene	ND	H	1.0	0.46	ug/L			09/12/14 19:29	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 19:29	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/12/14 19:29	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 19:29	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 19:29	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 19:29	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 126		09/12/14 19:29	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		09/12/14 19:29	1
4-Bromofluorobenzene (Surr)	108		73 - 120		09/12/14 19:29	1

Client Sample ID: 4009-6-082814

Lab Sample ID: 480-66426-27

Date Collected: 08/28/14 14:15

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/12/14 19:52	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 19:52	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 19:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/12/14 19:52	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/12/14 19:52	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/12/14 19:52	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 19:52	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 19:52	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 19:52	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 19:52	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 19:52	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 19:52	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 19:52	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 19:52	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 19:52	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 19:52	1
Acetone	9.8	J H *	10	3.0	ug/L			09/12/14 19:52	1
Benzene	ND	H	1.0	0.41	ug/L			09/12/14 19:52	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 19:52	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 19:52	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 19:52	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 19:52	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 19:52	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-6-082814

Lab Sample ID: 480-66426-27

Date Collected: 08/28/14 14:15

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 19:52	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 19:52	1
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 19:52	1
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 19:52	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 19:52	1
cis-1,2-Dichloroethene	ND	H	1.0	0.81	ug/L			09/12/14 19:52	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 19:52	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 19:52	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 19:52	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 19:52	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 19:52	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 19:52	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 19:52	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 19:52	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 19:52	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 19:52	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 19:52	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 19:52	1
Toluene	ND	H	1.0	0.51	ug/L			09/12/14 19:52	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 19:52	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 19:52	1
Trichloroethene	ND	H	1.0	0.46	ug/L			09/12/14 19:52	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 19:52	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/12/14 19:52	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 19:52	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 19:52	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 19:52	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 126					09/12/14 19:52	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					09/12/14 19:52	1
4-Bromofluorobenzene (Surr)	106		73 - 120					09/12/14 19:52	1

Client Sample ID: 4009-8-082814

Lab Sample ID: 480-66426-28

Date Collected: 08/28/14 14:20

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	H	20	4.2	ug/L			09/12/14 20:16	20
1,1,2-Trichloroethane	ND	H	20	4.6	ug/L			09/12/14 20:16	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	20	6.2	ug/L			09/12/14 20:16	20
1,1-Dichloroethane	72	H	20	7.6	ug/L			09/12/14 20:16	20
1,1-Dichloroethene	94	H	20	5.8	ug/L			09/12/14 20:16	20
1,2,4-Trichlorobenzene	ND	H	20	8.2	ug/L			09/12/14 20:16	20
1,2-Dibromo-3-Chloropropane	ND	H	20	7.8	ug/L			09/12/14 20:16	20
1,2-Dichlorobenzene	ND	H	20	16	ug/L			09/12/14 20:16	20
1,2-Dichloroethane	ND	H	20	4.2	ug/L			09/12/14 20:16	20
1,2-Dichloropropane	ND	H	20	14	ug/L			09/12/14 20:16	20

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-8-082814

Lab Sample ID: 480-66426-28

Date Collected: 08/28/14 14:20

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND	H	20	16	ug/L			09/12/14 20:16	20
1,4-Dichlorobenzene	ND	H	20	17	ug/L			09/12/14 20:16	20
2-Butanone (MEK)	ND	H	200	26	ug/L			09/12/14 20:16	20
2-Hexanone	ND	H	100	25	ug/L			09/12/14 20:16	20
4-Methyl-2-pentanone (MIBK)	ND	H	100	42	ug/L			09/12/14 20:16	20
Acetone	ND	H *	200	60	ug/L			09/12/14 20:16	20
Benzene	ND	H	20	8.2	ug/L			09/12/14 20:16	20
Bromodichloromethane	ND	H	20	7.8	ug/L			09/12/14 20:16	20
Bromoform	ND	H	20	5.2	ug/L			09/12/14 20:16	20
Bromomethane	ND	H	20	14	ug/L			09/12/14 20:16	20
Carbon disulfide	ND	H	20	3.8	ug/L			09/12/14 20:16	20
Carbon tetrachloride	ND	H	20	5.4	ug/L			09/12/14 20:16	20
Chlorobenzene	ND	H	20	15	ug/L			09/12/14 20:16	20
Dibromochloromethane	ND	H	20	6.4	ug/L			09/12/14 20:16	20
Chloroethane	ND	H	20	6.4	ug/L			09/12/14 20:16	20
Chloroform	ND	H	20	6.8	ug/L			09/12/14 20:16	20
Chloromethane	ND	H	20	7.0	ug/L			09/12/14 20:16	20
cis-1,2-Dichloroethene	550	H	20	16	ug/L			09/12/14 20:16	20
cis-1,3-Dichloropropene	ND	H	20	7.2	ug/L			09/12/14 20:16	20
Cyclohexane	ND	H	20	3.6	ug/L			09/12/14 20:16	20
Dichlorodifluoromethane	ND	H	20	14	ug/L			09/12/14 20:16	20
Ethylbenzene	ND	H	20	15	ug/L			09/12/14 20:16	20
1,2-Dibromoethane	ND	H	20	15	ug/L			09/12/14 20:16	20
Isopropylbenzene	ND	H	20	16	ug/L			09/12/14 20:16	20
Methyl acetate	ND	H	50	10	ug/L			09/12/14 20:16	20
Methyl tert-butyl ether	ND	H	20	3.2	ug/L			09/12/14 20:16	20
Methylcyclohexane	ND	H	20	3.2	ug/L			09/12/14 20:16	20
Methylene Chloride	9.1	J H	20	8.8	ug/L			09/12/14 20:16	20
Styrene	ND	H	20	15	ug/L			09/12/14 20:16	20
Tetrachloroethene	ND	H	20	7.2	ug/L			09/12/14 20:16	20
Toluene	ND	H	20	10	ug/L			09/12/14 20:16	20
trans-1,2-Dichloroethene	ND	H	20	18	ug/L			09/12/14 20:16	20
trans-1,3-Dichloropropene	ND	H	20	7.4	ug/L			09/12/14 20:16	20
Trichloroethene	ND	H	20	9.2	ug/L			09/12/14 20:16	20
Trichlorofluoromethane	ND	H	20	18	ug/L			09/12/14 20:16	20
Vinyl chloride	92	H	20	18	ug/L			09/12/14 20:16	20
Xylenes, Total	ND	H	40	13	ug/L			09/12/14 20:16	20
1,2,4-Trimethylbenzene	ND	H	20	15	ug/L			09/12/14 20:16	20
1,3,5-Trimethylbenzene	ND	H	20	15	ug/L			09/12/14 20:16	20
1,2,3-Trimethylbenzene	ND	H	20	5.2	ug/L			09/12/14 20:16	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		71 - 126		09/12/14 20:16	20
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		09/12/14 20:16	20
4-Bromofluorobenzene (Surr)	106		73 - 120		09/12/14 20:16	20

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2900	H	40	33	ug/L			09/13/14 08:37	40

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-8-082814

Lab Sample ID: 480-66426-28

Date Collected: 08/28/14 14:20

Matrix: Water

Date Received: 08/30/14 09:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		71 - 126		09/13/14 08:37	40
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		09/13/14 08:37	40
4-Bromofluorobenzene (Surr)	106		73 - 120		09/13/14 08:37	40

Client Sample ID: 4009-26-082814

Lab Sample ID: 480-66426-29

Date Collected: 08/28/14 14:25

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	150	H	2.0	1.6	ug/L			09/13/14 09:00	2
1,1,2,2-Tetrachloroethane	ND	H	2.0	0.42	ug/L			09/13/14 09:00	2
1,1,2-Trichloroethane	ND	H	2.0	0.46	ug/L			09/13/14 09:00	2
1,1,2-Trichloro-1,2,2-trifluoroethane	6.0	H	2.0	0.62	ug/L			09/13/14 09:00	2
1,1-Dichloroethane	16	H	2.0	0.76	ug/L			09/13/14 09:00	2
1,1-Dichloroethene	9.9	H	2.0	0.58	ug/L			09/13/14 09:00	2
1,2,4-Trichlorobenzene	ND	H	2.0	0.82	ug/L			09/13/14 09:00	2
1,2-Dibromo-3-Chloropropane	ND	H	2.0	0.78	ug/L			09/13/14 09:00	2
1,2-Dichlorobenzene	ND	H	2.0	1.6	ug/L			09/13/14 09:00	2
1,2-Dichloroethane	ND	H	2.0	0.42	ug/L			09/13/14 09:00	2
1,2-Dichloropropane	ND	H	2.0	1.4	ug/L			09/13/14 09:00	2
1,3-Dichlorobenzene	ND	H	2.0	1.6	ug/L			09/13/14 09:00	2
1,4-Dichlorobenzene	ND	H	2.0	1.7	ug/L			09/13/14 09:00	2
2-Butanone (MEK)	ND	H	20	2.6	ug/L			09/13/14 09:00	2
2-Hexanone	ND	H	10	2.5	ug/L			09/13/14 09:00	2
4-Methyl-2-pentanone (MIBK)	ND	H	10	4.2	ug/L			09/13/14 09:00	2
Acetone	ND	H	20	6.0	ug/L			09/13/14 09:00	2
Benzene	ND	H	2.0	0.82	ug/L			09/13/14 09:00	2
Bromodichloromethane	ND	H	2.0	0.78	ug/L			09/13/14 09:00	2
Bromoform	ND	H	2.0	0.52	ug/L			09/13/14 09:00	2
Bromomethane	ND	H	2.0	1.4	ug/L			09/13/14 09:00	2
Carbon disulfide	ND	H	2.0	0.38	ug/L			09/13/14 09:00	2
Carbon tetrachloride	ND	H	2.0	0.54	ug/L			09/13/14 09:00	2
Chlorobenzene	ND	H	2.0	1.5	ug/L			09/13/14 09:00	2
Dibromochloromethane	ND	H	2.0	0.64	ug/L			09/13/14 09:00	2
Chloroethane	ND	H *	2.0	0.64	ug/L			09/13/14 09:00	2
Chloroform	ND	H	2.0	0.68	ug/L			09/13/14 09:00	2
Chloromethane	ND	H	2.0	0.70	ug/L			09/13/14 09:00	2
cis-1,2-Dichloroethene	96	H	2.0	1.6	ug/L			09/13/14 09:00	2
cis-1,3-Dichloropropene	ND	H	2.0	0.72	ug/L			09/13/14 09:00	2
Cyclohexane	ND	H	2.0	0.36	ug/L			09/13/14 09:00	2
Dichlorodifluoromethane	5.0	H	2.0	1.4	ug/L			09/13/14 09:00	2
Ethylbenzene	ND	H	2.0	1.5	ug/L			09/13/14 09:00	2
1,2-Dibromoethane	ND	H	2.0	1.5	ug/L			09/13/14 09:00	2
Isopropylbenzene	ND	H	2.0	1.6	ug/L			09/13/14 09:00	2
Methyl acetate	ND	H	5.0	1.0	ug/L			09/13/14 09:00	2
Methyl tert-butyl ether	ND	H	2.0	0.32	ug/L			09/13/14 09:00	2
Methylcyclohexane	ND	H	2.0	0.32	ug/L			09/13/14 09:00	2
Methylene Chloride	ND	H	2.0	0.88	ug/L			09/13/14 09:00	2

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-26-082814

Lab Sample ID: 480-66426-29

Date Collected: 08/28/14 14:25

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	H	2.0	1.5	ug/L			09/13/14 09:00	2
Tetrachloroethene	0.97	J H	2.0	0.72	ug/L			09/13/14 09:00	2
Toluene	ND	H	2.0	1.0	ug/L			09/13/14 09:00	2
trans-1,2-Dichloroethene	ND	H	2.0	1.8	ug/L			09/13/14 09:00	2
trans-1,3-Dichloropropene	ND	H	2.0	0.74	ug/L			09/13/14 09:00	2
Trichloroethene	47	H	2.0	0.92	ug/L			09/13/14 09:00	2
Trichlorofluoromethane	ND	H	2.0	1.8	ug/L			09/13/14 09:00	2
Vinyl chloride	13	H	2.0	1.8	ug/L			09/13/14 09:00	2
Xylenes, Total	ND	H	4.0	1.3	ug/L			09/13/14 09:00	2
1,2,4-Trimethylbenzene	ND	H	2.0	1.5	ug/L			09/13/14 09:00	2
1,3,5-Trimethylbenzene	ND	H	2.0	1.5	ug/L			09/13/14 09:00	2
1,2,3-Trimethylbenzene	ND	H	2.0	0.52	ug/L			09/13/14 09:00	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	109		71 - 126					09/13/14 09:00	2
<i>1,2-Dichloroethane-d4 (Surr)</i>	97		66 - 137					09/13/14 09:00	2
<i>4-Bromofluorobenzene (Surr)</i>	106		73 - 120					09/13/14 09:00	2

Client Sample ID: 4009-2-082814

Lab Sample ID: 480-66426-30

Date Collected: 08/28/14 14:35

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/12/14 21:03	1
1,1,1,2,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/12/14 21:03	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/12/14 21:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.90	J H	1.0	0.31	ug/L			09/12/14 21:03	1
1,1-Dichloroethane	2.6	H	1.0	0.38	ug/L			09/12/14 21:03	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/12/14 21:03	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/12/14 21:03	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/12/14 21:03	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/12/14 21:03	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/12/14 21:03	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/12/14 21:03	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/12/14 21:03	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/12/14 21:03	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/12/14 21:03	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/12/14 21:03	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/12/14 21:03	1
Acetone	9.9	J H *	10	3.0	ug/L			09/12/14 21:03	1
Benzene	ND	H	1.0	0.41	ug/L			09/12/14 21:03	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/12/14 21:03	1
Bromoform	ND	H	1.0	0.26	ug/L			09/12/14 21:03	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/12/14 21:03	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/12/14 21:03	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/12/14 21:03	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/12/14 21:03	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/12/14 21:03	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-2-082814

Lab Sample ID: 480-66426-30

Date Collected: 08/28/14 14:35

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	H	1.0	0.32	ug/L			09/12/14 21:03	1
Chloroform	ND	H	1.0	0.34	ug/L			09/12/14 21:03	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/12/14 21:03	1
cis-1,2-Dichloroethene	9.0	H	1.0	0.81	ug/L			09/12/14 21:03	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/12/14 21:03	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/12/14 21:03	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/12/14 21:03	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/12/14 21:03	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/12/14 21:03	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/12/14 21:03	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/12/14 21:03	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/12/14 21:03	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/12/14 21:03	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/12/14 21:03	1
Styrene	ND	H	1.0	0.73	ug/L			09/12/14 21:03	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/12/14 21:03	1
Toluene	ND	H	1.0	0.51	ug/L			09/12/14 21:03	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/12/14 21:03	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/12/14 21:03	1
Trichloroethene	2.3	H	1.0	0.46	ug/L			09/12/14 21:03	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/12/14 21:03	1
Vinyl chloride	5.1	H	1.0	0.90	ug/L			09/12/14 21:03	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/12/14 21:03	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/12/14 21:03	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/12/14 21:03	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/12/14 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 126					09/12/14 21:03	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					09/12/14 21:03	1
4-Bromofluorobenzene (Surr)	105		73 - 120					09/12/14 21:03	1

Client Sample ID: 4009-25S-082814

Lab Sample ID: 480-66426-31

Date Collected: 08/28/14 14:40

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	H	40	8.4	ug/L			09/12/14 21:27	40
1,1,2-Trichloroethane	ND	H	40	9.2	ug/L			09/12/14 21:27	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	40	12	ug/L			09/12/14 21:27	40
1,1-Dichloroethane	120	H	40	15	ug/L			09/12/14 21:27	40
1,1-Dichloroethene	650	H	40	12	ug/L			09/12/14 21:27	40
1,2,4-Trichlorobenzene	ND	H	40	16	ug/L			09/12/14 21:27	40
1,2-Dibromo-3-Chloropropane	ND	H	40	16	ug/L			09/12/14 21:27	40
1,2-Dichlorobenzene	ND	H	40	32	ug/L			09/12/14 21:27	40
1,2-Dichloroethane	ND	H	40	8.4	ug/L			09/12/14 21:27	40
1,2-Dichloropropane	ND	H	40	29	ug/L			09/12/14 21:27	40
1,3-Dichlorobenzene	ND	H	40	31	ug/L			09/12/14 21:27	40
1,4-Dichlorobenzene	ND	H	40	34	ug/L			09/12/14 21:27	40

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-25S-082814

Lab Sample ID: 480-66426-31

Date Collected: 08/28/14 14:40

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	H	400	53	ug/L			09/12/14 21:27	40
2-Hexanone	ND	H	200	50	ug/L			09/12/14 21:27	40
4-Methyl-2-pentanone (MIBK)	ND	H	200	84	ug/L			09/12/14 21:27	40
Acetone	ND	H *	400	120	ug/L			09/12/14 21:27	40
Benzene	ND	H	40	16	ug/L			09/12/14 21:27	40
Bromodichloromethane	ND	H	40	16	ug/L			09/12/14 21:27	40
Bromoform	ND	H	40	10	ug/L			09/12/14 21:27	40
Bromomethane	ND	H	40	28	ug/L			09/12/14 21:27	40
Carbon disulfide	ND	H	40	7.6	ug/L			09/12/14 21:27	40
Carbon tetrachloride	ND	H	40	11	ug/L			09/12/14 21:27	40
Chlorobenzene	ND	H	40	30	ug/L			09/12/14 21:27	40
Dibromochloromethane	ND	H	40	13	ug/L			09/12/14 21:27	40
Chloroethane	ND	H	40	13	ug/L			09/12/14 21:27	40
Chloroform	ND	H	40	14	ug/L			09/12/14 21:27	40
Chloromethane	ND	H	40	14	ug/L			09/12/14 21:27	40
cis-1,2-Dichloroethene	490	H	40	32	ug/L			09/12/14 21:27	40
cis-1,3-Dichloropropene	ND	H	40	14	ug/L			09/12/14 21:27	40
Cyclohexane	ND	H	40	7.2	ug/L			09/12/14 21:27	40
Dichlorodifluoromethane	ND	H	40	27	ug/L			09/12/14 21:27	40
Ethylbenzene	ND	H	40	30	ug/L			09/12/14 21:27	40
1,2-Dibromoethane	ND	H	40	29	ug/L			09/12/14 21:27	40
Isopropylbenzene	ND	H	40	32	ug/L			09/12/14 21:27	40
Methyl acetate	ND	H	100	20	ug/L			09/12/14 21:27	40
Methyl tert-butyl ether	ND	H	40	6.4	ug/L			09/12/14 21:27	40
Methylcyclohexane	ND	H	40	6.4	ug/L			09/12/14 21:27	40
Methylene Chloride	ND	H	40	18	ug/L			09/12/14 21:27	40
Styrene	ND	H	40	29	ug/L			09/12/14 21:27	40
Tetrachloroethene	ND	H	40	14	ug/L			09/12/14 21:27	40
Toluene	ND	H	40	20	ug/L			09/12/14 21:27	40
trans-1,2-Dichloroethene	ND	H	40	36	ug/L			09/12/14 21:27	40
trans-1,3-Dichloropropene	ND	H	40	15	ug/L			09/12/14 21:27	40
Trichloroethene	2900	H	40	18	ug/L			09/12/14 21:27	40
Trichlorofluoromethane	ND	H	40	35	ug/L			09/12/14 21:27	40
Vinyl chloride	ND	H	40	36	ug/L			09/12/14 21:27	40
Xylenes, Total	ND	H	80	26	ug/L			09/12/14 21:27	40
1,2,4-Trimethylbenzene	ND	H	40	30	ug/L			09/12/14 21:27	40
1,3,5-Trimethylbenzene	ND	H	40	31	ug/L			09/12/14 21:27	40
1,2,3-Trimethylbenzene	ND	H	40	10	ug/L			09/12/14 21:27	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 126		09/12/14 21:27	40
1,2-Dichloroethane-d4 (Surr)	95		66 - 137		09/12/14 21:27	40
4-Bromofluorobenzene (Surr)	105		73 - 120		09/12/14 21:27	40

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	9900	H	200	160	ug/L			09/13/14 09:24	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 126		09/13/14 09:24	200

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-25S-082814

Lab Sample ID: 480-66426-31

Date Collected: 08/28/14 14:40

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		09/13/14 09:24	200
4-Bromofluorobenzene (Surr)	105		73 - 120		09/13/14 09:24	200

Client Sample ID: 4009-25D-082814

Lab Sample ID: 480-66426-32

Date Collected: 08/28/14 14:45

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	820	H	20	16	ug/L			09/13/14 09:48	20
1,1,2,2-Tetrachloroethane	ND	H	20	4.2	ug/L			09/13/14 09:48	20
1,1,2-Trichloroethane	ND	H	20	4.6	ug/L			09/13/14 09:48	20
1,1,2-Trichloro-1,2,2-trifluoroethane	19	J H	20	6.2	ug/L			09/13/14 09:48	20
1,1-Dichloroethane	53	H	20	7.6	ug/L			09/13/14 09:48	20
1,1-Dichloroethene	57	H	20	5.8	ug/L			09/13/14 09:48	20
1,2,4-Trichlorobenzene	ND	H	20	8.2	ug/L			09/13/14 09:48	20
1,2-Dibromo-3-Chloropropane	ND	H	20	7.8	ug/L			09/13/14 09:48	20
1,2-Dichlorobenzene	ND	H	20	16	ug/L			09/13/14 09:48	20
1,2-Dichloroethane	ND	H	20	4.2	ug/L			09/13/14 09:48	20
1,2-Dichloropropane	ND	H	20	14	ug/L			09/13/14 09:48	20
1,3-Dichlorobenzene	ND	H	20	16	ug/L			09/13/14 09:48	20
1,4-Dichlorobenzene	ND	H	20	17	ug/L			09/13/14 09:48	20
2-Butanone (MEK)	ND	H	200	26	ug/L			09/13/14 09:48	20
2-Hexanone	ND	H	100	25	ug/L			09/13/14 09:48	20
4-Methyl-2-pentanone (MIBK)	ND	H	100	42	ug/L			09/13/14 09:48	20
Acetone	ND	H	200	60	ug/L			09/13/14 09:48	20
Benzene	ND	H	20	8.2	ug/L			09/13/14 09:48	20
Bromodichloromethane	ND	H	20	7.8	ug/L			09/13/14 09:48	20
Bromoform	ND	H	20	5.2	ug/L			09/13/14 09:48	20
Bromomethane	ND	H	20	14	ug/L			09/13/14 09:48	20
Carbon disulfide	ND	H	20	3.8	ug/L			09/13/14 09:48	20
Carbon tetrachloride	ND	H	20	5.4	ug/L			09/13/14 09:48	20
Chlorobenzene	ND	H	20	15	ug/L			09/13/14 09:48	20
Dibromochloromethane	ND	H	20	6.4	ug/L			09/13/14 09:48	20
Chloroethane	ND	H *	20	6.4	ug/L			09/13/14 09:48	20
Chloroform	ND	H	20	6.8	ug/L			09/13/14 09:48	20
Chloromethane	ND	H	20	7.0	ug/L			09/13/14 09:48	20
cis-1,2-Dichloroethene	100	H	20	16	ug/L			09/13/14 09:48	20
cis-1,3-Dichloropropene	ND	H	20	7.2	ug/L			09/13/14 09:48	20
Cyclohexane	ND	H	20	3.6	ug/L			09/13/14 09:48	20
Dichlorodifluoromethane	ND	H	20	14	ug/L			09/13/14 09:48	20
Ethylbenzene	ND	H	20	15	ug/L			09/13/14 09:48	20
1,2-Dibromoethane	ND	H	20	15	ug/L			09/13/14 09:48	20
Isopropylbenzene	ND	H	20	16	ug/L			09/13/14 09:48	20
Methyl acetate	ND	H	50	10	ug/L			09/13/14 09:48	20
Methyl tert-butyl ether	ND	H	20	3.2	ug/L			09/13/14 09:48	20
Methylcyclohexane	ND	H	20	3.2	ug/L			09/13/14 09:48	20
Methylene Chloride	ND	H	20	8.8	ug/L			09/13/14 09:48	20

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-25D-082814

Lab Sample ID: 480-66426-32

Date Collected: 08/28/14 14:45

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	H	20	15	ug/L			09/13/14 09:48	20
Tetrachloroethene	ND	H	20	7.2	ug/L			09/13/14 09:48	20
Toluene	ND	H	20	10	ug/L			09/13/14 09:48	20
trans-1,2-Dichloroethene	ND	H	20	18	ug/L			09/13/14 09:48	20
trans-1,3-Dichloropropene	ND	H	20	7.4	ug/L			09/13/14 09:48	20
Trichloroethene	21	H	20	9.2	ug/L			09/13/14 09:48	20
Trichlorofluoromethane	ND	H	20	18	ug/L			09/13/14 09:48	20
Vinyl chloride	ND	H	20	18	ug/L			09/13/14 09:48	20
Xylenes, Total	ND	H	40	13	ug/L			09/13/14 09:48	20
1,2,4-Trimethylbenzene	ND	H	20	15	ug/L			09/13/14 09:48	20
1,3,5-Trimethylbenzene	ND	H	20	15	ug/L			09/13/14 09:48	20
1,2,3-Trimethylbenzene	ND	H	20	5.2	ug/L			09/13/14 09:48	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		71 - 126					09/13/14 09:48	20
1,2-Dichloroethane-d4 (Surr)	97		66 - 137					09/13/14 09:48	20
4-Bromofluorobenzene (Surr)	108		73 - 120					09/13/14 09:48	20

Client Sample ID: DUP-2-082814

Lab Sample ID: 480-66426-33

Date Collected: 08/28/14 00:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	810	H	10	8.2	ug/L			09/13/14 10:11	10
1,1,1,2-Tetrachloroethane	ND	H	10	2.1	ug/L			09/13/14 10:11	10
1,1,2-Trichloroethane	ND	H	10	2.3	ug/L			09/13/14 10:11	10
1,1,2-Trichloro-1,2,2-trifluoroethane	20	H	10	3.1	ug/L			09/13/14 10:11	10
1,1-Dichloroethane	51	H	10	3.8	ug/L			09/13/14 10:11	10
1,1-Dichloroethene	44	H	10	2.9	ug/L			09/13/14 10:11	10
1,2,4-Trichlorobenzene	ND	H	10	4.1	ug/L			09/13/14 10:11	10
1,2-Dibromo-3-Chloropropane	ND	H	10	3.9	ug/L			09/13/14 10:11	10
1,2-Dichlorobenzene	ND	H	10	7.9	ug/L			09/13/14 10:11	10
1,2-Dichloroethane	ND	H	10	2.1	ug/L			09/13/14 10:11	10
1,2-Dichloropropane	ND	H	10	7.2	ug/L			09/13/14 10:11	10
1,3-Dichlorobenzene	ND	H	10	7.8	ug/L			09/13/14 10:11	10
1,4-Dichlorobenzene	ND	H	10	8.4	ug/L			09/13/14 10:11	10
2-Butanone (MEK)	ND	H	100	13	ug/L			09/13/14 10:11	10
2-Hexanone	ND	H	50	12	ug/L			09/13/14 10:11	10
4-Methyl-2-pentanone (MIBK)	ND	H	50	21	ug/L			09/13/14 10:11	10
Acetone	ND	H	100	30	ug/L			09/13/14 10:11	10
Benzene	ND	H	10	4.1	ug/L			09/13/14 10:11	10
Bromodichloromethane	ND	H	10	3.9	ug/L			09/13/14 10:11	10
Bromoform	ND	H	10	2.6	ug/L			09/13/14 10:11	10
Bromomethane	ND	H	10	6.9	ug/L			09/13/14 10:11	10
Carbon disulfide	ND	H	10	1.9	ug/L			09/13/14 10:11	10
Carbon tetrachloride	ND	H	10	2.7	ug/L			09/13/14 10:11	10
Chlorobenzene	ND	H	10	7.5	ug/L			09/13/14 10:11	10
Dibromochloromethane	ND	H	10	3.2	ug/L			09/13/14 10:11	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: DUP-2-082814

Lab Sample ID: 480-66426-33

Date Collected: 08/28/14 00:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND	H *	10	3.2	ug/L			09/13/14 10:11	10
Chloroform	ND	H	10	3.4	ug/L			09/13/14 10:11	10
Chloromethane	ND	H	10	3.5	ug/L			09/13/14 10:11	10
cis-1,2-Dichloroethene	94	H	10	8.1	ug/L			09/13/14 10:11	10
cis-1,3-Dichloropropene	ND	H	10	3.6	ug/L			09/13/14 10:11	10
Cyclohexane	ND	H	10	1.8	ug/L			09/13/14 10:11	10
Dichlorodifluoromethane	ND	H	10	6.8	ug/L			09/13/14 10:11	10
Ethylbenzene	ND	H	10	7.4	ug/L			09/13/14 10:11	10
1,2-Dibromoethane	ND	H	10	7.3	ug/L			09/13/14 10:11	10
Isopropylbenzene	ND	H	10	7.9	ug/L			09/13/14 10:11	10
Methyl acetate	ND	H	25	5.0	ug/L			09/13/14 10:11	10
Methyl tert-butyl ether	ND	H	10	1.6	ug/L			09/13/14 10:11	10
Methylcyclohexane	ND	H	10	1.6	ug/L			09/13/14 10:11	10
Methylene Chloride	ND	H	10	4.4	ug/L			09/13/14 10:11	10
Styrene	ND	H	10	7.3	ug/L			09/13/14 10:11	10
Tetrachloroethene	ND	H	10	3.6	ug/L			09/13/14 10:11	10
Toluene	ND	H	10	5.1	ug/L			09/13/14 10:11	10
trans-1,2-Dichloroethene	ND	H	10	9.0	ug/L			09/13/14 10:11	10
trans-1,3-Dichloropropene	ND	H	10	3.7	ug/L			09/13/14 10:11	10
Trichloroethene	16	H	10	4.6	ug/L			09/13/14 10:11	10
Trichlorofluoromethane	ND	H	10	8.8	ug/L			09/13/14 10:11	10
Vinyl chloride	12	H	10	9.0	ug/L			09/13/14 10:11	10
Xylenes, Total	ND	H	20	6.6	ug/L			09/13/14 10:11	10
1,2,4-Trimethylbenzene	ND	H	10	7.5	ug/L			09/13/14 10:11	10
1,3,5-Trimethylbenzene	ND	H	10	7.7	ug/L			09/13/14 10:11	10
1,2,3-Trimethylbenzene	ND	H	10	2.6	ug/L			09/13/14 10:11	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		71 - 126		09/13/14 10:11	10
1,2-Dichloroethane-d4 (Surr)	97		66 - 137		09/13/14 10:11	10
4-Bromofluorobenzene (Surr)	108		73 - 120		09/13/14 10:11	10

Client Sample ID: 4009-7-082814

Lab Sample ID: 480-66426-34

Date Collected: 08/28/14 14:50

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/13/14 03:28	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/13/14 03:28	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/13/14 03:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/13/14 03:28	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/13/14 03:28	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/13/14 03:28	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/13/14 03:28	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/13/14 03:28	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/13/14 03:28	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/13/14 03:28	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/13/14 03:28	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/13/14 03:28	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-7-082814

Lab Sample ID: 480-66426-34

Date Collected: 08/28/14 14:50

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/13/14 03:28	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/13/14 03:28	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/13/14 03:28	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/13/14 03:28	1
Acetone	14	H	10	3.0	ug/L			09/13/14 03:28	1
Benzene	0.41	J H	1.0	0.41	ug/L			09/13/14 03:28	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/13/14 03:28	1
Bromoform	ND	H	1.0	0.26	ug/L			09/13/14 03:28	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/13/14 03:28	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/13/14 03:28	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/13/14 03:28	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/13/14 03:28	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/13/14 03:28	1
Chloroethane	ND	H *	1.0	0.32	ug/L			09/13/14 03:28	1
Chloroform	ND	H	1.0	0.34	ug/L			09/13/14 03:28	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/13/14 03:28	1
cis-1,2-Dichloroethene	36	H	1.0	0.81	ug/L			09/13/14 03:28	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/13/14 03:28	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/13/14 03:28	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/13/14 03:28	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/13/14 03:28	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/13/14 03:28	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/13/14 03:28	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/13/14 03:28	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/13/14 03:28	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/13/14 03:28	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/13/14 03:28	1
Styrene	ND	H	1.0	0.73	ug/L			09/13/14 03:28	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/13/14 03:28	1
Toluene	ND	H	1.0	0.51	ug/L			09/13/14 03:28	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/13/14 03:28	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/13/14 03:28	1
Trichloroethene	3.3	H	1.0	0.46	ug/L			09/13/14 03:28	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/13/14 03:28	1
Vinyl chloride	3.1	H	1.0	0.90	ug/L			09/13/14 03:28	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/13/14 03:28	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/13/14 03:28	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/13/14 03:28	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/13/14 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		71 - 126		09/13/14 03:28	1
1,2-Dichloroethane-d4 (Surr)	102		66 - 137		09/13/14 03:28	1
4-Bromofluorobenzene (Surr)	108		73 - 120		09/13/14 03:28	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-23S-082814

Lab Sample ID: 480-66426-35

Date Collected: 08/28/14 14:55

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/13/14 03:51	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/13/14 03:51	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/13/14 03:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/13/14 03:51	1
1,1-Dichloroethane	2.5	H	1.0	0.38	ug/L			09/13/14 03:51	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/13/14 03:51	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/13/14 03:51	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/13/14 03:51	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/13/14 03:51	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/13/14 03:51	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/13/14 03:51	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/13/14 03:51	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/13/14 03:51	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/13/14 03:51	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/13/14 03:51	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/13/14 03:51	1
Acetone	7.2	J H	10	3.0	ug/L			09/13/14 03:51	1
Benzene	1.8	H	1.0	0.41	ug/L			09/13/14 03:51	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/13/14 03:51	1
Bromoform	ND	H	1.0	0.26	ug/L			09/13/14 03:51	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/13/14 03:51	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/13/14 03:51	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/13/14 03:51	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/13/14 03:51	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/13/14 03:51	1
Chloroethane	1.2	H *	1.0	0.32	ug/L			09/13/14 03:51	1
Chloroform	ND	H	1.0	0.34	ug/L			09/13/14 03:51	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/13/14 03:51	1
cis-1,2-Dichloroethene	1.9	H	1.0	0.81	ug/L			09/13/14 03:51	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/13/14 03:51	1
Cyclohexane	0.85	J H	1.0	0.18	ug/L			09/13/14 03:51	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/13/14 03:51	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/13/14 03:51	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/13/14 03:51	1
Isopropylbenzene	5.8	H	1.0	0.79	ug/L			09/13/14 03:51	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/13/14 03:51	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/13/14 03:51	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/13/14 03:51	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/13/14 03:51	1
Styrene	ND	H	1.0	0.73	ug/L			09/13/14 03:51	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/13/14 03:51	1
Toluene	ND	H	1.0	0.51	ug/L			09/13/14 03:51	1
trans-1,2-Dichloroethene	1.8	H	1.0	0.90	ug/L			09/13/14 03:51	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/13/14 03:51	1
Trichloroethene	1.3	H	1.0	0.46	ug/L			09/13/14 03:51	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/13/14 03:51	1
Vinyl chloride	1.1	H	1.0	0.90	ug/L			09/13/14 03:51	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/13/14 03:51	1
1,2,4-Trimethylbenzene	4.2	H	1.0	0.75	ug/L			09/13/14 03:51	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-23S-082814

Lab Sample ID: 480-66426-35

Date Collected: 08/28/14 14:55

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	4.0	H	1.0	0.77	ug/L			09/13/14 03:51	1
1,2,3-Trimethylbenzene	0.44	J H	1.0	0.26	ug/L			09/13/14 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126					09/13/14 03:51	1
1,2-Dichloroethane-d4 (Surr)	103		66 - 137					09/13/14 03:51	1
4-Bromofluorobenzene (Surr)	107		73 - 120					09/13/14 03:51	1

Client Sample ID: 4009-23D-082814

Lab Sample ID: 480-66426-36

Date Collected: 08/28/14 15:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/13/14 04:15	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/13/14 04:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	12	H	1.0	0.31	ug/L			09/13/14 04:15	1
1,1-Dichloroethene	23	H	1.0	0.29	ug/L			09/13/14 04:15	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/13/14 04:15	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/13/14 04:15	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/13/14 04:15	1
1,2-Dichloroethane	0.39	J H	1.0	0.21	ug/L			09/13/14 04:15	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/13/14 04:15	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/13/14 04:15	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/13/14 04:15	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/13/14 04:15	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/13/14 04:15	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/13/14 04:15	1
Acetone	9.8	J H	10	3.0	ug/L			09/13/14 04:15	1
Benzene	0.62	J H	1.0	0.41	ug/L			09/13/14 04:15	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/13/14 04:15	1
Bromoform	ND	H	1.0	0.26	ug/L			09/13/14 04:15	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/13/14 04:15	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/13/14 04:15	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/13/14 04:15	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/13/14 04:15	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/13/14 04:15	1
Chloroethane	8.2	H *	1.0	0.32	ug/L			09/13/14 04:15	1
Chloroform	ND	H	1.0	0.34	ug/L			09/13/14 04:15	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/13/14 04:15	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/13/14 04:15	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/13/14 04:15	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/13/14 04:15	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/13/14 04:15	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/13/14 04:15	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/13/14 04:15	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/13/14 04:15	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/13/14 04:15	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/13/14 04:15	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-23D-082814

Lab Sample ID: 480-66426-36

Date Collected: 08/28/14 15:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/13/14 04:15	1
Styrene	ND	H	1.0	0.73	ug/L			09/13/14 04:15	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/13/14 04:15	1
Toluene	ND	H	1.0	0.51	ug/L			09/13/14 04:15	1
trans-1,2-Dichloroethene	1.3	H	1.0	0.90	ug/L			09/13/14 04:15	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/13/14 04:15	1
Trichloroethene	6.1	H	1.0	0.46	ug/L			09/13/14 04:15	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/13/14 04:15	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/13/14 04:15	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/13/14 04:15	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/13/14 04:15	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/13/14 04:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		71 - 126		09/13/14 04:15	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/13/14 04:15	1
4-Bromofluorobenzene (Surr)	105		73 - 120		09/13/14 04:15	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	140	H	10	8.2	ug/L			09/16/14 03:54	10
1,1-Dichloroethane	220	H	10	3.8	ug/L			09/16/14 03:54	10
cis-1,2-Dichloroethene	460	H	10	8.1	ug/L			09/16/14 03:54	10
Vinyl chloride	530	H	10	9.0	ug/L			09/16/14 03:54	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 126		09/16/14 03:54	10
1,2-Dichloroethane-d4 (Surr)	101		66 - 137		09/16/14 03:54	10
4-Bromofluorobenzene (Surr)	108		73 - 120		09/16/14 03:54	10

Client Sample ID: 4009-3-082814

Lab Sample ID: 480-66426-37

Date Collected: 08/28/14 15:15

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.6	H	1.0	0.82	ug/L			09/13/14 04:39	1
1,1,1,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/13/14 04:39	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/13/14 04:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/13/14 04:39	1
1,1-Dichloroethane	7.5	H	1.0	0.38	ug/L			09/13/14 04:39	1
1,1-Dichloroethene	1.1	H	1.0	0.29	ug/L			09/13/14 04:39	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/13/14 04:39	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/13/14 04:39	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/13/14 04:39	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/13/14 04:39	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/13/14 04:39	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/13/14 04:39	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/13/14 04:39	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/13/14 04:39	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-3-082814

Lab Sample ID: 480-66426-37

Date Collected: 08/28/14 15:15

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	H	5.0	1.2	ug/L			09/13/14 04:39	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/13/14 04:39	1
Acetone	12	H	10	3.0	ug/L			09/13/14 04:39	1
Benzene	ND	H	1.0	0.41	ug/L			09/13/14 04:39	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/13/14 04:39	1
Bromoform	ND	H	1.0	0.26	ug/L			09/13/14 04:39	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/13/14 04:39	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/13/14 04:39	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/13/14 04:39	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/13/14 04:39	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/13/14 04:39	1
Chloroethane	ND	H *	1.0	0.32	ug/L			09/13/14 04:39	1
Chloroform	ND	H	1.0	0.34	ug/L			09/13/14 04:39	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/13/14 04:39	1
cis-1,2-Dichloroethene	63	H	1.0	0.81	ug/L			09/13/14 04:39	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/13/14 04:39	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/13/14 04:39	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/13/14 04:39	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/13/14 04:39	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/13/14 04:39	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/13/14 04:39	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/13/14 04:39	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/13/14 04:39	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/13/14 04:39	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/13/14 04:39	1
Styrene	ND	H	1.0	0.73	ug/L			09/13/14 04:39	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/13/14 04:39	1
Toluene	ND	H	1.0	0.51	ug/L			09/13/14 04:39	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/13/14 04:39	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/13/14 04:39	1
Trichloroethene	12	H	1.0	0.46	ug/L			09/13/14 04:39	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/13/14 04:39	1
Vinyl chloride	33	H	1.0	0.90	ug/L			09/13/14 04:39	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/13/14 04:39	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/13/14 04:39	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/13/14 04:39	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/13/14 04:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		71 - 126					09/13/14 04:39	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137					09/13/14 04:39	1
4-Bromofluorobenzene (Surr)	107		73 - 120					09/13/14 04:39	1

Client Sample ID: 4009-5-082814

Lab Sample ID: 480-66426-38

Date Collected: 08/28/14 15:20

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/13/14 06:14	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-5-082814

Lab Sample ID: 480-66426-38

Date Collected: 08/28/14 15:20

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/13/14 06:14	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/13/14 06:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/13/14 06:14	1
1,1-Dichloroethane	1.3	H	1.0	0.38	ug/L			09/13/14 06:14	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/13/14 06:14	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/13/14 06:14	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/13/14 06:14	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/13/14 06:14	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/13/14 06:14	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/13/14 06:14	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/13/14 06:14	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/13/14 06:14	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/13/14 06:14	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/13/14 06:14	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/13/14 06:14	1
Acetone	11	H	10	3.0	ug/L			09/13/14 06:14	1
Benzene	1.7	H	1.0	0.41	ug/L			09/13/14 06:14	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/13/14 06:14	1
Bromoform	ND	H	1.0	0.26	ug/L			09/13/14 06:14	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/13/14 06:14	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/13/14 06:14	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/13/14 06:14	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/13/14 06:14	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/13/14 06:14	1
Chloroethane	ND	H *	1.0	0.32	ug/L			09/13/14 06:14	1
Chloroform	ND	H	1.0	0.34	ug/L			09/13/14 06:14	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/13/14 06:14	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/13/14 06:14	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/13/14 06:14	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/13/14 06:14	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/13/14 06:14	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/13/14 06:14	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/13/14 06:14	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/13/14 06:14	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/13/14 06:14	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/13/14 06:14	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/13/14 06:14	1
Styrene	ND	H	1.0	0.73	ug/L			09/13/14 06:14	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/13/14 06:14	1
Toluene	ND	H	1.0	0.51	ug/L			09/13/14 06:14	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/13/14 06:14	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/13/14 06:14	1
Trichloroethene	12	H	1.0	0.46	ug/L			09/13/14 06:14	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/13/14 06:14	1
Vinyl chloride	14	H	1.0	0.90	ug/L			09/13/14 06:14	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/13/14 06:14	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/13/14 06:14	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/13/14 06:14	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/13/14 06:14	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-5-082814

Lab Sample ID: 480-66426-38

Date Collected: 08/28/14 15:20

Matrix: Water

Date Received: 08/30/14 09:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126		09/13/14 06:14	1
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		09/13/14 06:14	1
4-Bromofluorobenzene (Surr)	104		73 - 120		09/13/14 06:14	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	170	H	2.0	1.6	ug/L			09/16/14 04:18	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126		09/16/14 04:18	2
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		09/16/14 04:18	2
4-Bromofluorobenzene (Surr)	109		73 - 120		09/16/14 04:18	2

Client Sample ID: 4009-24-082814

Lab Sample ID: 480-66426-39

Date Collected: 08/28/14 15:25

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/13/14 06:38	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/13/14 06:38	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/13/14 06:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/13/14 06:38	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/13/14 06:38	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/13/14 06:38	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/13/14 06:38	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/13/14 06:38	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/13/14 06:38	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/13/14 06:38	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/13/14 06:38	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/13/14 06:38	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/13/14 06:38	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/13/14 06:38	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/13/14 06:38	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/13/14 06:38	1
Acetone	ND	H	10	3.0	ug/L			09/13/14 06:38	1
Benzene	ND	H	1.0	0.41	ug/L			09/13/14 06:38	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/13/14 06:38	1
Bromoform	ND	H	1.0	0.26	ug/L			09/13/14 06:38	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/13/14 06:38	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/13/14 06:38	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/13/14 06:38	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/13/14 06:38	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/13/14 06:38	1
Chloroethane	ND	H *	1.0	0.32	ug/L			09/13/14 06:38	1
Chloroform	0.44	J H	1.0	0.34	ug/L			09/13/14 06:38	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/13/14 06:38	1
cis-1,2-Dichloroethene	2.2	H	1.0	0.81	ug/L			09/13/14 06:38	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/13/14 06:38	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/13/14 06:38	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/13/14 06:38	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-24-082814

Lab Sample ID: 480-66426-39

Date Collected: 08/28/14 15:25

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/13/14 06:38	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/13/14 06:38	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/13/14 06:38	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/13/14 06:38	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/13/14 06:38	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/13/14 06:38	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/13/14 06:38	1
Styrene	ND	H	1.0	0.73	ug/L			09/13/14 06:38	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/13/14 06:38	1
Toluene	ND	H	1.0	0.51	ug/L			09/13/14 06:38	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/13/14 06:38	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/13/14 06:38	1
Trichloroethene	ND	H	1.0	0.46	ug/L			09/13/14 06:38	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/13/14 06:38	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/13/14 06:38	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/13/14 06:38	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/13/14 06:38	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/13/14 06:38	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/13/14 06:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 126					09/13/14 06:38	1
1,2-Dichloroethane-d4 (Surr)	97		66 - 137					09/13/14 06:38	1
4-Bromofluorobenzene (Surr)	107		73 - 120					09/13/14 06:38	1

Client Sample ID: 4009-4-082814

Lab Sample ID: 480-66426-40

Date Collected: 08/28/14 15:40

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/13/14 07:02	1
1,1,1,2,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/13/14 07:02	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/13/14 07:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/13/14 07:02	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/13/14 07:02	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/13/14 07:02	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/13/14 07:02	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/13/14 07:02	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/13/14 07:02	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/13/14 07:02	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/13/14 07:02	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/13/14 07:02	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/13/14 07:02	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/13/14 07:02	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/13/14 07:02	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/13/14 07:02	1
Acetone	8.0	J H	10	3.0	ug/L			09/13/14 07:02	1
Benzene	3.6	H	1.0	0.41	ug/L			09/13/14 07:02	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/13/14 07:02	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-4-082814

Lab Sample ID: 480-66426-40

Date Collected: 08/28/14 15:40

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND	H	1.0	0.26	ug/L			09/13/14 07:02	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/13/14 07:02	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/13/14 07:02	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/13/14 07:02	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/13/14 07:02	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/13/14 07:02	1
Chloroethane	ND	H *	1.0	0.32	ug/L			09/13/14 07:02	1
Chloroform	ND	H	1.0	0.34	ug/L			09/13/14 07:02	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/13/14 07:02	1
cis-1,2-Dichloroethene	1.3	H	1.0	0.81	ug/L			09/13/14 07:02	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/13/14 07:02	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/13/14 07:02	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/13/14 07:02	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/13/14 07:02	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/13/14 07:02	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/13/14 07:02	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/13/14 07:02	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/13/14 07:02	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/13/14 07:02	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/13/14 07:02	1
Styrene	ND	H	1.0	0.73	ug/L			09/13/14 07:02	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/13/14 07:02	1
Toluene	0.60	J H	1.0	0.51	ug/L			09/13/14 07:02	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/13/14 07:02	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/13/14 07:02	1
Trichloroethene	ND	H	1.0	0.46	ug/L			09/13/14 07:02	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/13/14 07:02	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/13/14 07:02	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/13/14 07:02	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/13/14 07:02	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/13/14 07:02	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/13/14 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126					09/13/14 07:02	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					09/13/14 07:02	1
4-Bromofluorobenzene (Surr)	107		73 - 120					09/13/14 07:02	1

Client Sample ID: 4009-1-082814

Lab Sample ID: 480-66426-41

Date Collected: 08/28/14 15:55

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/13/14 07:26	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/13/14 07:26	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/13/14 07:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/13/14 07:26	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/13/14 07:26	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/13/14 07:26	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-1-082814

Lab Sample ID: 480-66426-41

Date Collected: 08/28/14 15:55

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/13/14 07:26	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/13/14 07:26	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/13/14 07:26	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/13/14 07:26	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/13/14 07:26	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/13/14 07:26	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/13/14 07:26	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/13/14 07:26	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/13/14 07:26	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/13/14 07:26	1
Acetone	12	H	10	3.0	ug/L			09/13/14 07:26	1
Benzene	ND	H	1.0	0.41	ug/L			09/13/14 07:26	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/13/14 07:26	1
Bromoform	ND	H	1.0	0.26	ug/L			09/13/14 07:26	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/13/14 07:26	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/13/14 07:26	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/13/14 07:26	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/13/14 07:26	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/13/14 07:26	1
Chloroethane	ND	H *	1.0	0.32	ug/L			09/13/14 07:26	1
Chloroform	ND	H	1.0	0.34	ug/L			09/13/14 07:26	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/13/14 07:26	1
cis-1,2-Dichloroethene	2.2	H	1.0	0.81	ug/L			09/13/14 07:26	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/13/14 07:26	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/13/14 07:26	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/13/14 07:26	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/13/14 07:26	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/13/14 07:26	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/13/14 07:26	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/13/14 07:26	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/13/14 07:26	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/13/14 07:26	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/13/14 07:26	1
Styrene	ND	H	1.0	0.73	ug/L			09/13/14 07:26	1
Tetrachloroethene	1.7	H	1.0	0.36	ug/L			09/13/14 07:26	1
Toluene	ND	H	1.0	0.51	ug/L			09/13/14 07:26	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/13/14 07:26	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/13/14 07:26	1
Trichloroethene	1.7	H	1.0	0.46	ug/L			09/13/14 07:26	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/13/14 07:26	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/13/14 07:26	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/13/14 07:26	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/13/14 07:26	1
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/13/14 07:26	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/13/14 07:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 126		09/13/14 07:26	1
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		09/13/14 07:26	1
4-Bromofluorobenzene (Surr)	105		73 - 120		09/13/14 07:26	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-66426-42

Date Collected: 08/28/14 00:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	1.0	0.82	ug/L			09/13/14 07:49	1
1,1,2,2-Tetrachloroethane	ND	H	1.0	0.21	ug/L			09/13/14 07:49	1
1,1,2-Trichloroethane	ND	H	1.0	0.23	ug/L			09/13/14 07:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	1.0	0.31	ug/L			09/13/14 07:49	1
1,1-Dichloroethane	ND	H	1.0	0.38	ug/L			09/13/14 07:49	1
1,1-Dichloroethene	ND	H	1.0	0.29	ug/L			09/13/14 07:49	1
1,2,4-Trichlorobenzene	ND	H	1.0	0.41	ug/L			09/13/14 07:49	1
1,2-Dibromo-3-Chloropropane	ND	H	1.0	0.39	ug/L			09/13/14 07:49	1
1,2-Dichlorobenzene	ND	H	1.0	0.79	ug/L			09/13/14 07:49	1
1,2-Dichloroethane	ND	H	1.0	0.21	ug/L			09/13/14 07:49	1
1,2-Dichloropropane	ND	H	1.0	0.72	ug/L			09/13/14 07:49	1
1,3-Dichlorobenzene	ND	H	1.0	0.78	ug/L			09/13/14 07:49	1
1,4-Dichlorobenzene	ND	H	1.0	0.84	ug/L			09/13/14 07:49	1
2-Butanone (MEK)	ND	H	10	1.3	ug/L			09/13/14 07:49	1
2-Hexanone	ND	H	5.0	1.2	ug/L			09/13/14 07:49	1
4-Methyl-2-pentanone (MIBK)	ND	H	5.0	2.1	ug/L			09/13/14 07:49	1
Acetone	ND	H	10	3.0	ug/L			09/13/14 07:49	1
Benzene	ND	H	1.0	0.41	ug/L			09/13/14 07:49	1
Bromodichloromethane	ND	H	1.0	0.39	ug/L			09/13/14 07:49	1
Bromoform	ND	H	1.0	0.26	ug/L			09/13/14 07:49	1
Bromomethane	ND	H	1.0	0.69	ug/L			09/13/14 07:49	1
Carbon disulfide	ND	H	1.0	0.19	ug/L			09/13/14 07:49	1
Carbon tetrachloride	ND	H	1.0	0.27	ug/L			09/13/14 07:49	1
Chlorobenzene	ND	H	1.0	0.75	ug/L			09/13/14 07:49	1
Dibromochloromethane	ND	H	1.0	0.32	ug/L			09/13/14 07:49	1
Chloroethane	ND	H *	1.0	0.32	ug/L			09/13/14 07:49	1
Chloroform	ND	H	1.0	0.34	ug/L			09/13/14 07:49	1
Chloromethane	ND	H	1.0	0.35	ug/L			09/13/14 07:49	1
cis-1,2-Dichloroethene	ND	H	1.0	0.81	ug/L			09/13/14 07:49	1
cis-1,3-Dichloropropene	ND	H	1.0	0.36	ug/L			09/13/14 07:49	1
Cyclohexane	ND	H	1.0	0.18	ug/L			09/13/14 07:49	1
Dichlorodifluoromethane	ND	H	1.0	0.68	ug/L			09/13/14 07:49	1
Ethylbenzene	ND	H	1.0	0.74	ug/L			09/13/14 07:49	1
1,2-Dibromoethane	ND	H	1.0	0.73	ug/L			09/13/14 07:49	1
Isopropylbenzene	ND	H	1.0	0.79	ug/L			09/13/14 07:49	1
Methyl acetate	ND	H	2.5	0.50	ug/L			09/13/14 07:49	1
Methyl tert-butyl ether	ND	H	1.0	0.16	ug/L			09/13/14 07:49	1
Methylcyclohexane	ND	H	1.0	0.16	ug/L			09/13/14 07:49	1
Methylene Chloride	ND	H	1.0	0.44	ug/L			09/13/14 07:49	1
Styrene	ND	H	1.0	0.73	ug/L			09/13/14 07:49	1
Tetrachloroethene	ND	H	1.0	0.36	ug/L			09/13/14 07:49	1
Toluene	ND	H	1.0	0.51	ug/L			09/13/14 07:49	1
trans-1,2-Dichloroethene	ND	H	1.0	0.90	ug/L			09/13/14 07:49	1
trans-1,3-Dichloropropene	ND	H	1.0	0.37	ug/L			09/13/14 07:49	1
Trichloroethene	ND	H	1.0	0.46	ug/L			09/13/14 07:49	1
Trichlorofluoromethane	ND	H	1.0	0.88	ug/L			09/13/14 07:49	1
Vinyl chloride	ND	H	1.0	0.90	ug/L			09/13/14 07:49	1
Xylenes, Total	ND	H	2.0	0.66	ug/L			09/13/14 07:49	1
1,2,4-Trimethylbenzene	ND	H	1.0	0.75	ug/L			09/13/14 07:49	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-66426-42

Date Collected: 08/28/14 00:00

Matrix: Water

Date Received: 08/30/14 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND	H	1.0	0.77	ug/L			09/13/14 07:49	1
1,2,3-Trimethylbenzene	ND	H	1.0	0.26	ug/L			09/13/14 07:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		71 - 126					09/13/14 07:49	1
1,2-Dichloroethane-d4 (Surr)	103		66 - 137					09/13/14 07:49	1
4-Bromofluorobenzene (Surr)	106		73 - 120					09/13/14 07:49	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (71-126)	12DCE (66-137)	BFB (73-120)
480-66426-1	WELL 1-2AINF-082814	101	101	103
480-66426-2	WELL 1-3INF-082814	102	100	105
480-66426-3	WELL 1-3 EFF-082814	101	102	106
480-66426-4	WELL 1-2AEFF-082814	105	103	109
480-66426-5	FB-1-082814	101	100	102
480-66426-6	4009-28-082814	100	101	104
480-66426-7	4009-22-082814	104	101	106
480-66426-8	4009-14-082814	103	100	107
480-66426-9	4009-16A-082814	103	103	103
480-66426-10	4009-16-082814	104	100	103
480-66426-11	4009-15-082814	102	102	106
480-66426-12	4009-12-082814	101	100	102
480-66426-13	4009-12A-082814	101	100	104
480-66426-14	4009-29S-082814	103	102	106
480-66426-14 - DL	4009-29S-082814	105	103	105
480-66426-15	4009-29I-082814	103	100	104
480-66426-15 - RA	4009-29I-082814	105	103	106
480-66426-16	DUP-1-082814	106	101	106
480-66426-16 - RA	DUP-1-082814	103	102	106
480-66426-17	4009-29D-082814	105	95	105
480-66426-17 - DL	4009-29D-082814	107	100	106
480-66426-18	4009-27I-082814	103	101	104
480-66426-18 MS	4009-27I-082814	101	101	105
480-66426-18 MSD	4009-27I-082814	101	104	106
480-66426-19	4009-27S-082814	103	100	103
480-66426-20	4009-27D-082814	102	100	104
480-66426-21	4009-13A-082814	100	104	105
480-66426-22	4009-13-082814	106	106	105
480-66426-23	4009-9-082814	105	100	104
480-66426-24	4009-10-082814	105	99	106
480-66426-25	4009-11A-082814	105	101	103
480-66426-26	4009-11-082814	104	101	108
480-66426-27	4009-6-082814	102	100	106
480-66426-28	4009-8-082814	106	102	106
480-66426-28 - DL	4009-8-082814	107	101	106
480-66426-29 - DL	4009-26-082814	109	97	106
480-66426-30	4009-2-082814	104	100	105
480-66426-31	4009-25S-082814	104	95	105
480-66426-31 - DL	4009-25S-082814	104	98	105
480-66426-32	4009-25D-082814	107	97	108
480-66426-33	DUP-2-082814	107	97	108
480-66426-34	4009-7-082814	106	102	108
480-66426-35	4009-23S-082814	105	103	107
480-66426-36	4009-23D-082814	106	100	105
480-66426-36 - DL	4009-23D-082814	102	101	108
480-66426-36 MS	4009-23D-082814	104	99	109
480-66426-36 MSD	4009-23D-082814	101	103	107
480-66426-37	4009-3-082814	106	100	107
480-66426-37 MS	4009-3-082814	104	103	103

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (71-126)	12DCE (66-137)	BFB (73-120)
480-66426-37 MSD	4009-3-082814	103	100	104
480-66426-38	4009-5-082814	105	99	104
480-66426-38 - DL	4009-5-082814	105	99	109
480-66426-39	4009-24-082814	104	97	107
480-66426-40	4009-4-082814	105	101	107
480-66426-41	4009-1-082814	104	99	105
480-66426-42	TRIP BLANK	108	103	106
LCS 480-201908/7	Lab Control Sample	101	106	101
LCS 480-202125/4	Lab Control Sample	100	103	104
LCS 480-202220/4	Lab Control Sample	100	100	103
LCS 480-202496/6	Lab Control Sample	104	98	108
MB 480-201908/9	Method Blank	105	101	106
MB 480-202125/6	Method Blank	103	106	102
MB 480-202220/6	Method Blank	104	98	105
MB 480-202496/8	Method Blank	102	100	110

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-201908/9

Matrix: Water

Analysis Batch: 201908

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/11/14 15:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/11/14 15:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/11/14 15:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/11/14 15:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/11/14 15:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/11/14 15:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/11/14 15:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/11/14 15:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/11/14 15:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/11/14 15:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/11/14 15:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/11/14 15:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/11/14 15:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/11/14 15:14	1
2-Hexanone	ND		5.0	1.2	ug/L			09/11/14 15:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/11/14 15:14	1
Acetone	ND		10	3.0	ug/L			09/11/14 15:14	1
Benzene	ND		1.0	0.41	ug/L			09/11/14 15:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/11/14 15:14	1
Bromoform	ND		1.0	0.26	ug/L			09/11/14 15:14	1
Bromomethane	ND		1.0	0.69	ug/L			09/11/14 15:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/11/14 15:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/11/14 15:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/11/14 15:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/11/14 15:14	1
Chloroethane	ND		1.0	0.32	ug/L			09/11/14 15:14	1
Chloroform	ND		1.0	0.34	ug/L			09/11/14 15:14	1
Chloromethane	ND		1.0	0.35	ug/L			09/11/14 15:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/11/14 15:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/11/14 15:14	1
Cyclohexane	ND		1.0	0.18	ug/L			09/11/14 15:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/11/14 15:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/11/14 15:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/11/14 15:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/11/14 15:14	1
Methyl acetate	ND		2.5	0.50	ug/L			09/11/14 15:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/11/14 15:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/11/14 15:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/11/14 15:14	1
Styrene	ND		1.0	0.73	ug/L			09/11/14 15:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/11/14 15:14	1
Toluene	ND		1.0	0.51	ug/L			09/11/14 15:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/11/14 15:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/11/14 15:14	1
Trichloroethene	ND		1.0	0.46	ug/L			09/11/14 15:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/11/14 15:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/11/14 15:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/11/14 15:14	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-201908/9

Matrix: Water

Analysis Batch: 201908

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/11/14 15:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/11/14 15:14	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/11/14 15:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 126					09/11/14 15:14	1
1,2-Dichloroethane-d4 (Surr)	101		66 - 137					09/11/14 15:14	1
4-Bromofluorobenzene (Surr)	106		73 - 120					09/11/14 15:14	1

Lab Sample ID: LCS 480-201908/7

Matrix: Water

Analysis Batch: 201908

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.5		ug/L		94	71 - 129
1,1-Dichloroethene	25.0	26.0		ug/L		104	58 - 121
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	24.4		ug/L		97	75 - 127
Benzene	25.0	23.3		ug/L		93	71 - 124
Chlorobenzene	25.0	23.6		ug/L		94	72 - 120
cis-1,2-Dichloroethene	25.0	23.0		ug/L		92	74 - 124
Ethylbenzene	25.0	24.2		ug/L		97	77 - 123
Methyl tert-butyl ether	25.0	24.5		ug/L		98	64 - 127
Tetrachloroethene	25.0	23.3		ug/L		93	74 - 122
Toluene	25.0	23.3		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
Trichloroethene	25.0	22.8		ug/L		91	74 - 123
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		94	76 - 121
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	77 - 121
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	101		71 - 126				
1,2-Dichloroethane-d4 (Surr)	106		66 - 137				
4-Bromofluorobenzene (Surr)	101		73 - 120				

Lab Sample ID: MB 480-202125/6

Matrix: Water

Analysis Batch: 202125

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/12/14 13:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/12/14 13:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/12/14 13:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/12/14 13:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/12/14 13:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/12/14 13:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/12/14 13:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/12/14 13:20	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-202125/6

Matrix: Water

Analysis Batch: 202125

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/12/14 13:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/12/14 13:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/12/14 13:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/12/14 13:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/12/14 13:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/12/14 13:20	1
2-Hexanone	ND		5.0	1.2	ug/L			09/12/14 13:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/12/14 13:20	1
Acetone	ND		10	3.0	ug/L			09/12/14 13:20	1
Benzene	ND		1.0	0.41	ug/L			09/12/14 13:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/12/14 13:20	1
Bromoform	ND		1.0	0.26	ug/L			09/12/14 13:20	1
Bromomethane	ND		1.0	0.69	ug/L			09/12/14 13:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/12/14 13:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/12/14 13:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/12/14 13:20	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/12/14 13:20	1
Chloroethane	ND		1.0	0.32	ug/L			09/12/14 13:20	1
Chloroform	ND		1.0	0.34	ug/L			09/12/14 13:20	1
Chloromethane	ND		1.0	0.35	ug/L			09/12/14 13:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/12/14 13:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/12/14 13:20	1
Cyclohexane	ND		1.0	0.18	ug/L			09/12/14 13:20	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/12/14 13:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/12/14 13:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/12/14 13:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/12/14 13:20	1
Methyl acetate	ND		2.5	0.50	ug/L			09/12/14 13:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/12/14 13:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/12/14 13:20	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/12/14 13:20	1
Styrene	ND		1.0	0.73	ug/L			09/12/14 13:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/12/14 13:20	1
Toluene	ND		1.0	0.51	ug/L			09/12/14 13:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/12/14 13:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/12/14 13:20	1
Trichloroethene	ND		1.0	0.46	ug/L			09/12/14 13:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/12/14 13:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/12/14 13:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/12/14 13:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/12/14 13:20	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/12/14 13:20	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/12/14 13:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		71 - 126		09/12/14 13:20	1
1,2-Dichloroethane-d4 (Surr)	106		66 - 137		09/12/14 13:20	1
4-Bromofluorobenzene (Surr)	102		73 - 120		09/12/14 13:20	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-202125/4

Matrix: Water

Analysis Batch: 202125

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.0		ug/L		92	71 - 129
1,1-Dichloroethene	25.0	28.4		ug/L		114	58 - 121
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	23.2		ug/L		93	75 - 127
Benzene	25.0	24.2		ug/L		97	71 - 124
Chlorobenzene	25.0	24.6		ug/L		98	72 - 120
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	74 - 124
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123
Methyl tert-butyl ether	25.0	25.6		ug/L		102	64 - 127
Tetrachloroethene	25.0	24.5		ug/L		98	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	73 - 127
Trichloroethene	25.0	23.5		ug/L		94	74 - 123
1,2,4-Trimethylbenzene	25.0	24.2		ug/L		97	76 - 121
1,3,5-Trimethylbenzene	25.0	23.9		ug/L		96	77 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		71 - 126
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120

Lab Sample ID: 480-66426-18 MS

Matrix: Water

Analysis Batch: 202125

Client Sample ID: 4009-271-082814

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND	H	25.0	22.9	H	ug/L		92	71 - 129
1,1-Dichloroethene	ND	H	25.0	27.6	H	ug/L		110	58 - 121
1,2-Dichlorobenzene	ND	H	25.0	23.6	H	ug/L		94	80 - 124
1,2-Dichloroethane	ND	H	25.0	23.2	H	ug/L		93	75 - 127
Benzene	0.71	J H	25.0	24.4	H	ug/L		95	71 - 124
Chlorobenzene	ND	H	25.0	24.3	H	ug/L		97	72 - 120
cis-1,2-Dichloroethene	ND	H	25.0	22.3	H	ug/L		89	74 - 124
Ethylbenzene	ND	H	25.0	24.8	H	ug/L		99	77 - 123
Methyl tert-butyl ether	ND	H	25.0	24.3	H	ug/L		97	64 - 127
Tetrachloroethene	ND	H	25.0	25.3	H	ug/L		101	74 - 122
Toluene	ND	H	25.0	24.7	H	ug/L		99	80 - 122
trans-1,2-Dichloroethene	ND	H	25.0	23.9	H	ug/L		96	73 - 127
Trichloroethene	1.2	H	25.0	23.4	H	ug/L		89	74 - 123
1,2,4-Trimethylbenzene	ND	H	25.0	ND	H F1	ug/L		0	76 - 121
1,3,5-Trimethylbenzene	ND	H	25.0	ND	H F1	ug/L		0	77 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	101		71 - 126
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	105		73 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-66426-18 MSD

Matrix: Water

Analysis Batch: 202125

Client Sample ID: 4009-271-082814

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND	H	25.0	22.0	H	ug/L		88	71 - 129	4	20
1,1-Dichloroethene	ND	H	25.0	27.1	H	ug/L		108	58 - 121	2	16
1,2-Dichlorobenzene	ND	H	25.0	22.1	H	ug/L		89	80 - 124	6	20
1,2-Dichloroethane	ND	H	25.0	22.9	H	ug/L		92	75 - 127	1	20
Benzene	0.71	J H	25.0	23.4	H	ug/L		91	71 - 124	4	13
Chlorobenzene	ND	H	25.0	22.9	H	ug/L		92	72 - 120	6	25
cis-1,2-Dichloroethene	ND	H	25.0	22.1	H	ug/L		89	74 - 124	1	15
Ethylbenzene	ND	H	25.0	23.2	H	ug/L		93	77 - 123	7	15
Methyl tert-butyl ether	ND	H	25.0	24.4	H	ug/L		98	64 - 127	1	37
Tetrachloroethene	ND	H	25.0	23.3	H	ug/L		93	74 - 122	8	20
Toluene	ND	H	25.0	22.7	H	ug/L		91	80 - 122	8	15
trans-1,2-Dichloroethene	ND	H	25.0	23.4	H	ug/L		93	73 - 127	2	20
Trichloroethene	1.2	H	25.0	22.4	H	ug/L		85	74 - 123	4	16
1,2,4-Trimethylbenzene	ND	H	25.0	ND	H F1	ug/L		0	76 - 121	NC	20
1,3,5-Trimethylbenzene	ND	H	25.0	ND	H F1	ug/L		0	77 - 121	NC	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	101		71 - 126
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	106		73 - 120

Lab Sample ID: MB 480-202220/6

Matrix: Water

Analysis Batch: 202220

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/13/14 00:58	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/13/14 00:58	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/13/14 00:58	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/13/14 00:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/13/14 00:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/13/14 00:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/13/14 00:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/13/14 00:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/13/14 00:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/13/14 00:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/13/14 00:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/13/14 00:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/13/14 00:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/13/14 00:58	1
2-Hexanone	ND		5.0	1.2	ug/L			09/13/14 00:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/13/14 00:58	1
Acetone	ND		10	3.0	ug/L			09/13/14 00:58	1
Benzene	ND		1.0	0.41	ug/L			09/13/14 00:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/13/14 00:58	1
Bromoform	ND		1.0	0.26	ug/L			09/13/14 00:58	1
Bromomethane	ND		1.0	0.69	ug/L			09/13/14 00:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/13/14 00:58	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-202220/6

Matrix: Water

Analysis Batch: 202220

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/13/14 00:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/13/14 00:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/13/14 00:58	1
Chloroethane	ND		1.0	0.32	ug/L			09/13/14 00:58	1
Chloroform	ND		1.0	0.34	ug/L			09/13/14 00:58	1
Chloromethane	ND		1.0	0.35	ug/L			09/13/14 00:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/13/14 00:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/13/14 00:58	1
Cyclohexane	ND		1.0	0.18	ug/L			09/13/14 00:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/13/14 00:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/13/14 00:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/13/14 00:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/13/14 00:58	1
Methyl acetate	ND		2.5	0.50	ug/L			09/13/14 00:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/13/14 00:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/13/14 00:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/13/14 00:58	1
Styrene	ND		1.0	0.73	ug/L			09/13/14 00:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/13/14 00:58	1
Toluene	ND		1.0	0.51	ug/L			09/13/14 00:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/13/14 00:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/13/14 00:58	1
Trichloroethene	ND		1.0	0.46	ug/L			09/13/14 00:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/13/14 00:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/13/14 00:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/13/14 00:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/13/14 00:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/13/14 00:58	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/13/14 00:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 126		09/13/14 00:58	1
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		09/13/14 00:58	1
4-Bromofluorobenzene (Surr)	105		73 - 120		09/13/14 00:58	1

Lab Sample ID: LCS 480-202220/4

Matrix: Water

Analysis Batch: 202220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	22.9		ug/L		92	71 - 129
1,1-Dichloroethene	25.0	26.0		ug/L		104	58 - 121
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	23.9		ug/L		96	75 - 127
Benzene	25.0	24.4		ug/L		97	71 - 124
Chlorobenzene	25.0	25.8		ug/L		103	72 - 120
cis-1,2-Dichloroethene	25.0	23.0		ug/L		92	74 - 124
Ethylbenzene	25.0	25.4		ug/L		101	77 - 123

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-202220/4

Matrix: Water

Analysis Batch: 202220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.8		ug/L		99	64 - 127
Tetrachloroethene	25.0	25.1		ug/L		101	74 - 122
Toluene	25.0	25.2		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	24.1		ug/L		97	73 - 127
Trichloroethene	25.0	23.2		ug/L		93	74 - 123
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	76 - 121
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	77 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		71 - 126
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120

Lab Sample ID: 480-66426-37 MS

Matrix: Water

Analysis Batch: 202220

Client Sample ID: 4009-3-082814

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	7.5	H	25.0	31.1	H	ug/L		95	71 - 129
1,1-Dichloroethene	1.1	H	25.0	31.5	H F1	ug/L		122	58 - 121
1,2-Dichlorobenzene	ND	H	25.0	24.0	H	ug/L		96	80 - 124
1,2-Dichloroethane	ND	H	25.0	24.6	H	ug/L		98	75 - 127
Benzene	ND	H	25.0	26.1	H	ug/L		105	71 - 124
Chlorobenzene	ND	H	25.0	25.0	H	ug/L		100	72 - 120
cis-1,2-Dichloroethene	63	H	25.0	93.5	H	ug/L		124	74 - 124
Ethylbenzene	ND	H	25.0	25.5	H	ug/L		102	77 - 123
Methyl tert-butyl ether	ND	H	25.0	25.0	H	ug/L		100	64 - 127
Tetrachloroethene	ND	H	25.0	26.4	H	ug/L		105	74 - 122
Toluene	ND	H	25.0	25.2	H	ug/L		101	80 - 122
trans-1,2-Dichloroethene	ND	H	25.0	26.7	H	ug/L		107	73 - 127
Trichloroethene	12	H	25.0	40.1	H	ug/L		112	74 - 123
1,2,4-Trimethylbenzene	ND	H	25.0	ND	H F1	ug/L		0	76 - 121
1,3,5-Trimethylbenzene	ND	H	25.0	ND	H F1	ug/L		0	77 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	104		71 - 126
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	103		73 - 120

Lab Sample ID: 480-66426-37 MSD

Matrix: Water

Analysis Batch: 202220

Client Sample ID: 4009-3-082814

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	7.5	H	25.0	30.2	H	ug/L		91	71 - 129	3	20
1,1-Dichloroethene	1.1	H	25.0	31.7	H F1	ug/L		122	58 - 121	1	16
1,2-Dichlorobenzene	ND	H	25.0	25.5	H	ug/L		102	80 - 124	6	20
1,2-Dichloroethane	ND	H	25.0	24.4	H	ug/L		98	75 - 127	1	20

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-66426-37 MSD

Matrix: Water

Analysis Batch: 202220

Client Sample ID: 4009-3-082814

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND	H	25.0	25.9	H	ug/L		103	71 - 124	1	13
Chlorobenzene	ND	H	25.0	26.5	H	ug/L		106	72 - 120	6	25
cis-1,2-Dichloroethene	63	H	25.0	84.2	H	ug/L		87	74 - 124	11	15
Ethylbenzene	ND	H	25.0	27.1	H	ug/L		108	77 - 123	6	15
Methyl tert-butyl ether	ND	H	25.0	24.7	H	ug/L		99	64 - 127	1	37
Tetrachloroethene	ND	H	25.0	28.2	H	ug/L		113	74 - 122	7	20
Toluene	ND	H	25.0	26.7	H	ug/L		107	80 - 122	6	15
trans-1,2-Dichloroethene	ND	H	25.0	27.1	H	ug/L		108	73 - 127	1	20
Trichloroethene	12	H	25.0	39.2	H	ug/L		108	74 - 123	2	16
1,2,4-Trimethylbenzene	ND	H	25.0	ND	H F1	ug/L		0	76 - 121	NC	20
1,3,5-Trimethylbenzene	ND	H	25.0	ND	H F1	ug/L		0	77 - 121	NC	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	103		71 - 126
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	104		73 - 120

Lab Sample ID: MB 480-202496/8

Matrix: Water

Analysis Batch: 202496

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/15/14 19:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/15/14 19:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/15/14 19:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/15/14 19:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/15/14 19:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/15/14 19:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/15/14 19:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/15/14 19:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/15/14 19:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/15/14 19:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/15/14 19:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/15/14 19:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/15/14 19:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/15/14 19:45	1
2-Hexanone	ND		5.0	1.2	ug/L			09/15/14 19:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/15/14 19:45	1
Acetone	ND		10	3.0	ug/L			09/15/14 19:45	1
Benzene	ND		1.0	0.41	ug/L			09/15/14 19:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/15/14 19:45	1
Bromoform	ND		1.0	0.26	ug/L			09/15/14 19:45	1
Bromomethane	ND		1.0	0.69	ug/L			09/15/14 19:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/15/14 19:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/15/14 19:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/15/14 19:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/15/14 19:45	1
Chloroethane	ND		1.0	0.32	ug/L			09/15/14 19:45	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-202496/8

Matrix: Water

Analysis Batch: 202496

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.34	ug/L			09/15/14 19:45	1
Chloromethane	ND		1.0	0.35	ug/L			09/15/14 19:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/15/14 19:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/15/14 19:45	1
Cyclohexane	ND		1.0	0.18	ug/L			09/15/14 19:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/15/14 19:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/15/14 19:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/15/14 19:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/15/14 19:45	1
Methyl acetate	ND		2.5	0.50	ug/L			09/15/14 19:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/15/14 19:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/15/14 19:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/15/14 19:45	1
Styrene	ND		1.0	0.73	ug/L			09/15/14 19:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/15/14 19:45	1
Toluene	ND		1.0	0.51	ug/L			09/15/14 19:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/15/14 19:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/15/14 19:45	1
Trichloroethene	ND		1.0	0.46	ug/L			09/15/14 19:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/15/14 19:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/15/14 19:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/15/14 19:45	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			09/15/14 19:45	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/15/14 19:45	1
1,2,3-Trimethylbenzene	ND		1.0	0.26	ug/L			09/15/14 19:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		71 - 126		09/15/14 19:45	1
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/15/14 19:45	1
4-Bromofluorobenzene (Surr)	110		73 - 120		09/15/14 19:45	1

Lab Sample ID: LCS 480-202496/6

Matrix: Water

Analysis Batch: 202496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	22.7		ug/L		91	71 - 129
1,1-Dichloroethene	25.0	29.1		ug/L		117	58 - 121
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	23.0		ug/L		92	75 - 127
Benzene	25.0	23.7		ug/L		95	71 - 124
Chlorobenzene	25.0	24.2		ug/L		97	72 - 120
cis-1,2-Dichloroethene	25.0	23.0		ug/L		92	74 - 124
Ethylbenzene	25.0	24.6		ug/L		98	77 - 123
Methyl tert-butyl ether	25.0	24.0		ug/L		96	64 - 127
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	24.5		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	73 - 127

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-202496/6

Matrix: Water

Analysis Batch: 202496

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	25.0	23.2		ug/L		93	74 - 123
1,2,4-Trimethylbenzene	25.0	22.9		ug/L		92	76 - 121
1,3,5-Trimethylbenzene	25.0	23.3		ug/L		93	77 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	104		71 - 126
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
4-Bromofluorobenzene (Surr)	108		73 - 120

Lab Sample ID: 480-66426-36 MS

Matrix: Water

Analysis Batch: 202496

Client Sample ID: 4009-23D-082814

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	220	H	250	415		ug/L		77	71 - 129
1,1-Dichloroethene	21		250	261		ug/L		96	58 - 121
1,2-Dichlorobenzene	ND		250	225		ug/L		90	80 - 124
1,2-Dichloroethane	ND		250	223		ug/L		89	75 - 127
Benzene	ND		250	216		ug/L		87	71 - 124
Chlorobenzene	ND		250	226		ug/L		91	72 - 120
cis-1,2-Dichloroethene	460	H	250	665		ug/L		84	74 - 124
Ethylbenzene	ND		250	218		ug/L		87	77 - 123
Methyl tert-butyl ether	ND		250	232		ug/L		93	64 - 127
Tetrachloroethene	ND		250	223		ug/L		89	74 - 122
Toluene	ND		250	217		ug/L		87	80 - 122
trans-1,2-Dichloroethene	ND		250	216		ug/L		86	73 - 127
Trichloroethene	7.0		250	202		ug/L		78	74 - 123
1,2,4-Trimethylbenzene	ND		250	209		ug/L		84	76 - 121
1,3,5-Trimethylbenzene	ND		250	201		ug/L		81	77 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	104		71 - 126
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
4-Bromofluorobenzene (Surr)	109		73 - 120

Lab Sample ID: 480-66426-36 MSD

Matrix: Water

Analysis Batch: 202496

Client Sample ID: 4009-23D-082814

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1-Dichloroethane	220	H	250	434		ug/L		85	71 - 129	4	20
1,1-Dichloroethene	21		250	294		ug/L		109	58 - 121	12	16
1,2-Dichlorobenzene	ND		250	218		ug/L		87	80 - 124	3	20
1,2-Dichloroethane	ND		250	222		ug/L		89	75 - 127	0	20
Benzene	ND		250	218		ug/L		87	71 - 124	1	13
Chlorobenzene	ND		250	215		ug/L		86	72 - 120	5	25
cis-1,2-Dichloroethene	460	H	250	689		ug/L		93	74 - 124	4	15
Ethylbenzene	ND		250	211		ug/L		85	77 - 123	3	15

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-66426-36 MSD

Matrix: Water

Analysis Batch: 202496

Client Sample ID: 4009-23D-082814

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	ND		250	240		ug/L		96	64 - 127	4	37
Tetrachloroethene	ND		250	214		ug/L		86	74 - 122	4	20
Toluene	ND		250	208		ug/L		83	80 - 122	4	15
trans-1,2-Dichloroethene	ND		250	220		ug/L		88	73 - 127	2	20
Trichloroethene	7.0		250	211		ug/L		82	74 - 123	4	16
1,2,4-Trimethylbenzene	ND		250	201		ug/L		81	76 - 121	4	20
1,3,5-Trimethylbenzene	ND		250	199		ug/L		79	77 - 121	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	101		71 - 126
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	107		73 - 120

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

GC/MS VOA

Analysis Batch: 201908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66426-1	WELL 1-2AINF-082814	Total/NA	Water	8260C	
480-66426-2	WELL 1-3INF-082814	Total/NA	Water	8260C	
480-66426-3	WELL 1-3 EFF-082814	Total/NA	Water	8260C	
480-66426-4	WELL 1-2AEFF-082814	Total/NA	Water	8260C	
480-66426-5	FB-1-082814	Total/NA	Water	8260C	
480-66426-6	4009-28-082814	Total/NA	Water	8260C	
480-66426-7	4009-22-082814	Total/NA	Water	8260C	
480-66426-8	4009-14-082814	Total/NA	Water	8260C	
480-66426-9	4009-16A-082814	Total/NA	Water	8260C	
480-66426-10	4009-16-082814	Total/NA	Water	8260C	
480-66426-11	4009-15-082814	Total/NA	Water	8260C	
480-66426-12	4009-12-082814	Total/NA	Water	8260C	
480-66426-13	4009-12A-082814	Total/NA	Water	8260C	
480-66426-14	4009-29S-082814	Total/NA	Water	8260C	
480-66426-15	4009-29I-082814	Total/NA	Water	8260C	
480-66426-16	DUP-1-082814	Total/NA	Water	8260C	
480-66426-17	4009-29D-082814	Total/NA	Water	8260C	
LCS 480-201908/7	Lab Control Sample	Total/NA	Water	8260C	
MB 480-201908/9	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 202125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66426-14 - DL	4009-29S-082814	Total/NA	Water	8260C	
480-66426-15 - RA	4009-29I-082814	Total/NA	Water	8260C	
480-66426-16 - RA	DUP-1-082814	Total/NA	Water	8260C	
480-66426-18	4009-27I-082814	Total/NA	Water	8260C	
480-66426-18 MS	4009-27I-082814	Total/NA	Water	8260C	
480-66426-18 MSD	4009-27I-082814	Total/NA	Water	8260C	
480-66426-19	4009-27S-082814	Total/NA	Water	8260C	
480-66426-20	4009-27D-082814	Total/NA	Water	8260C	
480-66426-21	4009-13A-082814	Total/NA	Water	8260C	
480-66426-22	4009-13-082814	Total/NA	Water	8260C	
480-66426-23	4009-9-082814	Total/NA	Water	8260C	
480-66426-24	4009-10-082814	Total/NA	Water	8260C	
480-66426-25	4009-11A-082814	Total/NA	Water	8260C	
480-66426-26	4009-11-082814	Total/NA	Water	8260C	
480-66426-27	4009-6-082814	Total/NA	Water	8260C	
480-66426-28	4009-8-082814	Total/NA	Water	8260C	
480-66426-30	4009-2-082814	Total/NA	Water	8260C	
480-66426-31	4009-25S-082814	Total/NA	Water	8260C	
LCS 480-202125/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-202125/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 202220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66426-17 - DL	4009-29D-082814	Total/NA	Water	8260C	
480-66426-28 - DL	4009-8-082814	Total/NA	Water	8260C	
480-66426-29 - DL	4009-26-082814	Total/NA	Water	8260C	
480-66426-31 - DL	4009-25S-082814	Total/NA	Water	8260C	
480-66426-32	4009-25D-082814	Total/NA	Water	8260C	
480-66426-33	DUP-2-082814	Total/NA	Water	8260C	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

GC/MS VOA (Continued)

Analysis Batch: 202220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66426-34	4009-7-082814	Total/NA	Water	8260C	
480-66426-35	4009-23S-082814	Total/NA	Water	8260C	
480-66426-36	4009-23D-082814	Total/NA	Water	8260C	
480-66426-37	4009-3-082814	Total/NA	Water	8260C	
480-66426-37 MS	4009-3-082814	Total/NA	Water	8260C	
480-66426-37 MSD	4009-3-082814	Total/NA	Water	8260C	
480-66426-38	4009-5-082814	Total/NA	Water	8260C	
480-66426-39	4009-24-082814	Total/NA	Water	8260C	
480-66426-40	4009-4-082814	Total/NA	Water	8260C	
480-66426-41	4009-1-082814	Total/NA	Water	8260C	
480-66426-42	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-202220/4	Lab Control Sample	Total/NA	Water	8260C	
MB 480-202220/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 202496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66426-36 - DL	4009-23D-082814	Total/NA	Water	8260C	
480-66426-36 MS	4009-23D-082814	Total/NA	Water	8260C	
480-66426-36 MSD	4009-23D-082814	Total/NA	Water	8260C	
480-66426-38 - DL	4009-5-082814	Total/NA	Water	8260C	
LCS 480-202496/6	Lab Control Sample	Total/NA	Water	8260C	
MB 480-202496/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: WELL 1-2AINF-082814

Lab Sample ID: 480-66426-1

Date Collected: 08/28/14 10:15

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 15:47	NMD1	TAL BUF

Client Sample ID: WELL 1-3INF-082814

Lab Sample ID: 480-66426-2

Date Collected: 08/28/14 10:20

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 16:11	NMD1	TAL BUF

Client Sample ID: WELL 1-3 EFF-082814

Lab Sample ID: 480-66426-3

Date Collected: 08/28/14 10:25

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 16:35	NMD1	TAL BUF

Client Sample ID: WELL 1-2AEFF-082814

Lab Sample ID: 480-66426-4

Date Collected: 08/28/14 10:30

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 16:58	NMD1	TAL BUF

Client Sample ID: FB-1-082814

Lab Sample ID: 480-66426-5

Date Collected: 08/28/14 10:40

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 17:22	NMD1	TAL BUF

Client Sample ID: 4009-28-082814

Lab Sample ID: 480-66426-6

Date Collected: 08/28/14 11:05

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 17:46	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-22-082814

Lab Sample ID: 480-66426-7

Date Collected: 08/28/14 11:15

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 18:10	NMD1	TAL BUF

Client Sample ID: 4009-14-082814

Lab Sample ID: 480-66426-8

Date Collected: 08/28/14 11:20

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 18:34	NMD1	TAL BUF

Client Sample ID: 4009-16A-082814

Lab Sample ID: 480-66426-9

Date Collected: 08/28/14 11:30

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 18:58	NMD1	TAL BUF

Client Sample ID: 4009-16-082814

Lab Sample ID: 480-66426-10

Date Collected: 08/28/14 11:35

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 19:21	NMD1	TAL BUF

Client Sample ID: 4009-15-082814

Lab Sample ID: 480-66426-11

Date Collected: 08/28/14 11:50

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 19:45	NMD1	TAL BUF

Client Sample ID: 4009-12-082814

Lab Sample ID: 480-66426-12

Date Collected: 08/28/14 12:10

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 20:09	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-12A-082814

Lab Sample ID: 480-66426-13

Date Collected: 08/28/14 12:15

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 20:33	NMD1	TAL BUF

Client Sample ID: 4009-29S-082814

Lab Sample ID: 480-66426-14

Date Collected: 08/28/14 12:20

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	201908	09/11/14 20:57	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	20	202125	09/12/14 13:53	NMD1	TAL BUF

Client Sample ID: 4009-29I-082814

Lab Sample ID: 480-66426-15

Date Collected: 08/28/14 12:25

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	201908	09/11/14 21:21	NMD1	TAL BUF
Total/NA	Analysis	8260C	RA	2	202125	09/12/14 14:17	NMD1	TAL BUF

Client Sample ID: DUP-1-082814

Lab Sample ID: 480-66426-16

Date Collected: 08/28/14 00:00

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	201908	09/11/14 21:44	NMD1	TAL BUF
Total/NA	Analysis	8260C	RA	2	202125	09/12/14 14:40	NMD1	TAL BUF

Client Sample ID: 4009-29D-082814

Lab Sample ID: 480-66426-17

Date Collected: 08/28/14 12:30

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201908	09/11/14 22:07	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	20	202220	09/13/14 08:13	NMD1	TAL BUF

Client Sample ID: 4009-27I-082814

Lab Sample ID: 480-66426-18

Date Collected: 08/28/14 12:45

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 15:07	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-27S-082814

Lab Sample ID: 480-66426-19

Date Collected: 08/28/14 12:50

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 16:43	NMD1	TAL BUF

Client Sample ID: 4009-27D-082814

Lab Sample ID: 480-66426-20

Date Collected: 08/28/14 12:55

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 17:06	NMD1	TAL BUF

Client Sample ID: 4009-13A-082814

Lab Sample ID: 480-66426-21

Date Collected: 08/28/14 13:00

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 17:30	NMD1	TAL BUF

Client Sample ID: 4009-13-082814

Lab Sample ID: 480-66426-22

Date Collected: 08/28/14 13:05

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 17:54	NMD1	TAL BUF

Client Sample ID: 4009-9-082814

Lab Sample ID: 480-66426-23

Date Collected: 08/28/14 13:50

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 18:18	NMD1	TAL BUF

Client Sample ID: 4009-10-082814

Lab Sample ID: 480-66426-24

Date Collected: 08/28/14 13:55

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 18:41	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-11A-082814

Lab Sample ID: 480-66426-25

Date Collected: 08/28/14 14:00

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 19:05	NMD1	TAL BUF

Client Sample ID: 4009-11-082814

Lab Sample ID: 480-66426-26

Date Collected: 08/28/14 14:05

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 19:29	NMD1	TAL BUF

Client Sample ID: 4009-6-082814

Lab Sample ID: 480-66426-27

Date Collected: 08/28/14 14:15

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 19:52	NMD1	TAL BUF

Client Sample ID: 4009-8-082814

Lab Sample ID: 480-66426-28

Date Collected: 08/28/14 14:20

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	202125	09/12/14 20:16	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	40	202220	09/13/14 08:37	NMD1	TAL BUF

Client Sample ID: 4009-26-082814

Lab Sample ID: 480-66426-29

Date Collected: 08/28/14 14:25

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	2	202220	09/13/14 09:00	NMD1	TAL BUF

Client Sample ID: 4009-2-082814

Lab Sample ID: 480-66426-30

Date Collected: 08/28/14 14:35

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202125	09/12/14 21:03	NMD1	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-25S-082814

Lab Sample ID: 480-66426-31

Date Collected: 08/28/14 14:40

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	202125	09/12/14 21:27	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	200	202220	09/13/14 09:24	NMD1	TAL BUF

Client Sample ID: 4009-25D-082814

Lab Sample ID: 480-66426-32

Date Collected: 08/28/14 14:45

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	202220	09/13/14 09:48	NMD1	TAL BUF

Client Sample ID: DUP-2-082814

Lab Sample ID: 480-66426-33

Date Collected: 08/28/14 00:00

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	202220	09/13/14 10:11	NMD1	TAL BUF

Client Sample ID: 4009-7-082814

Lab Sample ID: 480-66426-34

Date Collected: 08/28/14 14:50

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202220	09/13/14 03:28	NMD1	TAL BUF

Client Sample ID: 4009-23S-082814

Lab Sample ID: 480-66426-35

Date Collected: 08/28/14 14:55

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202220	09/13/14 03:51	NMD1	TAL BUF

Client Sample ID: 4009-23D-082814

Lab Sample ID: 480-66426-36

Date Collected: 08/28/14 15:00

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202220	09/13/14 04:15	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	10	202496	09/16/14 03:54	NQN	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Client Sample ID: 4009-3-082814

Lab Sample ID: 480-66426-37

Date Collected: 08/28/14 15:15

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202220	09/13/14 04:39	NMD1	TAL BUF

Client Sample ID: 4009-5-082814

Lab Sample ID: 480-66426-38

Date Collected: 08/28/14 15:20

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202220	09/13/14 06:14	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	2	202496	09/16/14 04:18	NQN	TAL BUF

Client Sample ID: 4009-24-082814

Lab Sample ID: 480-66426-39

Date Collected: 08/28/14 15:25

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202220	09/13/14 06:38	NMD1	TAL BUF

Client Sample ID: 4009-4-082814

Lab Sample ID: 480-66426-40

Date Collected: 08/28/14 15:40

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202220	09/13/14 07:02	NMD1	TAL BUF

Client Sample ID: 4009-1-082814

Lab Sample ID: 480-66426-41

Date Collected: 08/28/14 15:55

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202220	09/13/14 07:26	NMD1	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-66426-42

Date Collected: 08/28/14 00:00

Matrix: Water

Date Received: 08/30/14 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	202220	09/13/14 07:49	NMD1	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-15
California	State Program	9	1169CA	09-30-14 *
Connecticut	State Program	1	PH-0568	09-30-14 *
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-15
Georgia	State Program	4	956	03-31-15
Illinois	NELAP	5	200003	09-30-14 *
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14 *
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-15
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-15
Oregon	NELAP	10	NY200003	06-09-15
Pennsylvania	NELAP	3	68-00281	07-31-15
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-15
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-15
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	09-30-14 *
Wisconsin	State Program	5	998310390	08-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-66426-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-66426-1	WELL 1-2AINF-082814	Water	08/28/14 10:15	08/30/14 09:00
480-66426-2	WELL 1-3INF-082814	Water	08/28/14 10:20	08/30/14 09:00
480-66426-3	WELL 1-3 EFF-082814	Water	08/28/14 10:25	08/30/14 09:00
480-66426-4	WELL 1-2AEFF-082814	Water	08/28/14 10:30	08/30/14 09:00
480-66426-5	FB-1-082814	Water	08/28/14 10:40	08/30/14 09:00
480-66426-6	4009-28-082814	Water	08/28/14 11:05	08/30/14 09:00
480-66426-7	4009-22-082814	Water	08/28/14 11:15	08/30/14 09:00
480-66426-8	4009-14-082814	Water	08/28/14 11:20	08/30/14 09:00
480-66426-9	4009-16A-082814	Water	08/28/14 11:30	08/30/14 09:00
480-66426-10	4009-16-082814	Water	08/28/14 11:35	08/30/14 09:00
480-66426-11	4009-15-082814	Water	08/28/14 11:50	08/30/14 09:00
480-66426-12	4009-12-082814	Water	08/28/14 12:10	08/30/14 09:00
480-66426-13	4009-12A-082814	Water	08/28/14 12:15	08/30/14 09:00
480-66426-14	4009-29S-082814	Water	08/28/14 12:20	08/30/14 09:00
480-66426-15	4009-29I-082814	Water	08/28/14 12:25	08/30/14 09:00
480-66426-16	DUP-1-082814	Water	08/28/14 00:00	08/30/14 09:00
480-66426-17	4009-29D-082814	Water	08/28/14 12:30	08/30/14 09:00
480-66426-18	4009-27I-082814	Water	08/28/14 12:45	08/30/14 09:00
480-66426-19	4009-27S-082814	Water	08/28/14 12:50	08/30/14 09:00
480-66426-20	4009-27D-082814	Water	08/28/14 12:55	08/30/14 09:00
480-66426-21	4009-13A-082814	Water	08/28/14 13:00	08/30/14 09:00
480-66426-22	4009-13-082814	Water	08/28/14 13:05	08/30/14 09:00
480-66426-23	4009-9-082814	Water	08/28/14 13:50	08/30/14 09:00
480-66426-24	4009-10-082814	Water	08/28/14 13:55	08/30/14 09:00
480-66426-25	4009-11A-082814	Water	08/28/14 14:00	08/30/14 09:00
480-66426-26	4009-11-082814	Water	08/28/14 14:05	08/30/14 09:00
480-66426-27	4009-6-082814	Water	08/28/14 14:15	08/30/14 09:00
480-66426-28	4009-8-082814	Water	08/28/14 14:20	08/30/14 09:00
480-66426-29	4009-26-082814	Water	08/28/14 14:25	08/30/14 09:00
480-66426-30	4009-2-082814	Water	08/28/14 14:35	08/30/14 09:00
480-66426-31	4009-25S-082814	Water	08/28/14 14:40	08/30/14 09:00
480-66426-32	4009-25D-082814	Water	08/28/14 14:45	08/30/14 09:00
480-66426-33	DUP-2-082814	Water	08/28/14 00:00	08/30/14 09:00
480-66426-34	4009-7-082814	Water	08/28/14 14:50	08/30/14 09:00
480-66426-35	4009-23S-082814	Water	08/28/14 14:55	08/30/14 09:00
480-66426-36	4009-23D-082814	Water	08/28/14 15:00	08/30/14 09:00
480-66426-37	4009-3-082814	Water	08/28/14 15:15	08/30/14 09:00
480-66426-38	4009-5-082814	Water	08/28/14 15:20	08/30/14 09:00
480-66426-39	4009-24-082814	Water	08/28/14 15:25	08/30/14 09:00
480-66426-40	4009-4-082814	Water	08/28/14 15:40	08/30/14 09:00
480-66426-41	4009-1-082814	Water	08/28/14 15:55	08/30/14 09:00
480-66426-42	TRIP BLANK	Water	08/28/14 00:00	08/30/14 09:00

TestAmerica Buffalo

Client Contact Company Name: ARCADIS Address: 855 Rt. 146, Ste 210 City/State/Zip: Clifton Park, NY 12015 Phone: 518-250-7300 Fax: 518-250-7301 Project Name: Vestal Water Supply Site: Vestal, NY P O #: 00266401.0000		Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: Project Manager: Bruce Nelson Tel/Fax: 518-250-7300 Analysis Turnaround Time ☐ CALENDAR DAYS ☐ WORKING DAYS TAT if different from Below _____ ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Site Contact: Lab Contact: C. Fox Date: 8/28/14 Carrier:		COC No: 1 of 4 COCs Sampler: AG + BQ For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.: S:	
Sample Identification		Sample Date Sample Time Sample Type (C=Comp, G=Grab) Matrix # of Cont.		Filtered Sample (Y/N) Perform MS / MSD (Y/N)		480-66426 Chain of Custody	
Well 1-2A INF - 082814		8/28/14 1015		G GW 3		N 3	
Well 1-3 INF - 082814		1020				N 3	
Well 1-3 EFF - 082814		1025				N 3	
Well 1-2A EFF - 082814		1030				N 3	
FB-1-082814		1040				N 3	
4009-28-082814		1105				N 3	
4009-22-082814		1115				N 3	
4009-14-082814		1120				N 3	
4009-16A-082814		1130				N 3	
4009-16-082814		1135				N 3	
4009-15-082814		1150				N 3	
4009-12-082814		1210		V		N 3	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other		22					
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown							
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact: ☐ Yes ☐ No Relinquished by: <i>Audrey Arcadis</i> Relinquished by: <i>AP 15 K. Q. Q.</i> Relinquished by:		Company: Arcadis Date/Time: 8/29/14 14:00 Company: <i>FA</i> Date/Time: 8/29/14 17:00		Received by: <i>K. Q. Q.</i> Date/Time: 8/29/14 14:00 Received in Laboratory by:		Company: 8-29-14 1400 Date/Time: 8-30-14 0900 Company:	
Cooler Temp. (°C): Obs'd: _____ Therm ID No.: _____		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months					

Amherst, NY 14226
Phone: 716.631.2600 Fax: 716.631.7991

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Bruce Nelson		Site Contact:		Date: 8/28/14		COC No: 2 of 4 COCs	
Company Name: ARCADIS		Tel/Fax: 518-250-1300		Lab Contact: G. Fox		Carrier:		Sampler: AG 430	
Address: 855 Rt 146, Ste 210		Analysis Turnaround Time		TAT if different from Below		For Lab Use Only:		Walk-in Client:	
City/State/Zip: Clifton Park, NY 12065		☐ CALENDAR DAYS ☐ WORKING DAYS		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab Sampling:		Job / SDG No.:	
Phone: 518-250-7300									
Fax: 518-250-7301									
Project Name: Vestal Water Supply									
Site: Vestal, NY									
P.O.# 00266401.0000									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:		
4009-12A-082814	8/28/14	1215	G	GW	3	MS			
4009-29S-082814		1220				W3			
4009-29T-082814		1225				W3			
4009-1-082814						W3	Duplicate		
4009-29D-082814		1230				W3			
4009-27I-082814		1245				W3			
4009-27I-MS/MSD-082814		1245				Y6	MS/MSD		
4009-27S-082814		1250				W3			
4009-27D-082814		1255				W3			
4009-13A-082814		1300				W3			
4009-13-082814		1305				W3			
4009-9-0828		1350				W3			
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification:									
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: ☐ Yes ☐ No									
Relinquished by: Andrew Desjardins		Company: Arcadis		Received by: [Signature]		Company: TA		Date/Time: 8/29/14 14:00	
Relinquished by: [Signature]		Company: TA		Received by: [Signature]		Company: TA		Date/Time: 8/29/14 (7:00)	
Relinquished by: [Signature]		Company: TA		Received in Laboratory by: [Signature]		Company: TA		Date/Time: 8/30/14 09:00	

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Company Name: ARCADIS		Project Manager: Bruce Nelson		Site Contact: C. Fox		COC No: 4 of 4 COCs	
Address: 855 Rt 146 Ste 210		Tel/Fax: 518-250-7300		Lab Contact: C. Fox		Carrier: AG-130	
City/State/Zip: Cifton Park, NY 12065		Analysis Turnaround Time		For Lab Use Only:		Walk-in Client:	
Phone: 518-250-7300		☐ CALENDAR DAYS ☐ WORKING DAYS		TAT if different from Below		Lab Sampling:	
Fax: 518-250-7301		☐ 2 weeks		☐ 1 week		Job / SDG No.:	
Project Name: Vestal Water Supply		☐ 2 days		☐ 1 day			
Site: Vestal, NY							
P O # 002664010000							

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:
4009-323D-082814	8/28/14	1500	G	QU	3	N	N	
4009-3-082814	8/28/14	1515				N	N	
4009-3 MS/MSD-082814	8/28/14	1515				Y	Y	MS/MSD
4009-5-082814	8/28/14	1520				N	N	
4009-24-082814	8/28/14	1525				N	N	
4009-4-082814	8/28/14	1540				N	N	
4009-1-082814	8/28/14	1555				N	N	
Trip Blank					4	N	N	Trip Blank

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

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

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C):	Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: Andrew Johnson	Company: ARCADIS	Received by: T. K. 600	Company: TA	Date/Time: 8-28-14 1400	Date/Time: 8-28-14 1400
Relinquished by: Andrew Johnson	Company: ARCADIS	Received by: T. K. 600	Company: TA	Date/Time: 8-28-14 1400	Date/Time: 8-28-14 1400
Relinquished by: Andrew Johnson	Company: ARCADIS	Received by: T. K. 600	Company: TA	Date/Time: 8-28-14 1400	Date/Time: 8-28-14 1400

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-66426-1

Login Number: 66426

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

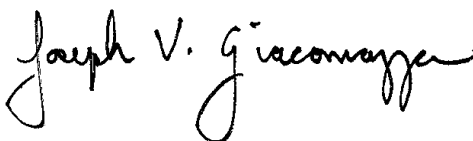
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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	
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	
Sampling Company provided.	True	arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 480-68343-1

Job Description: NYSDEC-Standby VESTAL

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, NY 12065
Attention: Jeremy Wyckoff



Approved for release.
Joe V Giacomazza
Project Management Assistant II
10/13/2014 4:56 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
10/13/2014

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC
Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-68343-1

Receipt

The samples were received on 10/1/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) for analytical batch 150407 exceeded control criteria for Bromomethane. The samples associated with this CCV were non-detects for the affected analyte. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compound was detected; therefore the data have been reported. No further corrective action was required. 1-2A (480-68343-1), 1-3 (480-68343-2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-68343-1	1-2A	Water	09/29/2014 1430	10/01/2014 0900
480-68343-2	1-3	Water	09/29/2014 1435	10/01/2014 0900

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL CAN	SW846 8260C	
Purge and Trap	TAL CAN		SW846 5030C

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Method	Analyst	Analyst ID
SW846 8260C	Evans, Laura	LEE

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Client Sample ID: 1-2A

Lab Sample ID: 480-68343-1

Client Matrix: Water

Date Sampled: 09/29/2014 1430

Date Received: 10/01/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-150407	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC5025.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2014 1618			Final Weight/Volume:	5 mL
Prep Date:	10/07/2014 1618				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.17	1.0
1,1-Dichloroethane	1.0	U	0.26	1.0
1,1-Dichloroethene	1.0	U	0.45	1.0
1,2,4-Trimethylbenzene	1.0	U	0.41	1.0
1,2-Dichloroethane	1.0	U	0.20	1.0
1,2-Dichloropropane	1.0	U	0.22	1.0
1,3,5-Trimethylbenzene	1.0	U	0.48	1.0
2-Butanone (MEK)	10	U	4.1	10
2-Hexanone	10	U	3.9	10
4-Methyl-2-pentanone (MIBK)	10	U	3.6	10
Acetone	10	U	3.4	10
Benzene	1.0	U	0.24	1.0
Bromoform	1.0	U	0.56	1.0
Bromomethane	1.0	U	0.63	1.0
Carbon disulfide	1.0	U	0.28	1.0
Carbon tetrachloride	1.0	U	0.17	1.0
Chlorobenzene	1.0	U	0.19	1.0
Dibromochloromethane	1.0	U	0.43	1.0
Chloroethane	1.0	U	0.33	1.0
Chloroform	1.0	U	0.21	1.0
Chloromethane	1.0	U	0.44	1.0
cis-1,2-Dichloroethene	1.0	U	0.20	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Ethylbenzene	1.0	U	0.23	1.0
1,2-Dibromoethane	1.0	U	0.19	1.0
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.28	1.0
m,p-Xylene	2.0	U	0.22	2.0
o-Xylene	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.20	1.0
Toluene	1.0	U	0.22	1.0
trans-1,2-Dichloroethene	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.56	1.0
Trichloroethene	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.29	1.0
Xylenes, Total	2.0	U	0.43	2.0
cis-1,3-Dichloropropene	1.0	U	0.46	1.0
Styrene	1.0	U	0.45	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		63 - 129
4-Bromofluorobenzene (Surr)	83		66 - 120
Toluene-d8 (Surr)	85		74 - 120
Dibromofluoromethane (Surr)	86		75 - 121

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Client Sample ID: 1-2A

Lab Sample ID: 480-68343-1

Client Matrix: Water

Date Sampled: 09/29/2014 1430

Date Received: 10/01/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Prep Method: 5030C

Dilution: 1.0

Analysis Date: 10/07/2014 1618

Prep Date: 10/07/2014 1618

Analysis Batch: 240-150407

Prep Batch: N/A

Instrument ID: A3UX15

Lab File ID: UXC5025.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Client Sample ID: 1-3

Lab Sample ID: 480-68343-2

Date Sampled: 09/29/2014 1435

Client Matrix: Water

Date Received: 10/01/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-150407	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC5026.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2014 1640			Final Weight/Volume:	5 mL
Prep Date:	10/07/2014 1640				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.17	1.0
1,1-Dichloroethane	1.0	U	0.26	1.0
1,1-Dichloroethene	1.0	U	0.45	1.0
1,2,4-Trimethylbenzene	1.0	U	0.41	1.0
1,2-Dichloroethane	1.0	U	0.20	1.0
1,2-Dichloropropane	1.0	U	0.22	1.0
1,3,5-Trimethylbenzene	1.0	U	0.48	1.0
2-Butanone (MEK)	10	U	4.1	10
2-Hexanone	10	U	3.9	10
4-Methyl-2-pentanone (MIBK)	10	U	3.6	10
Acetone	10	U	3.4	10
Benzene	1.0	U	0.24	1.0
Bromoform	1.0	U	0.56	1.0
Bromomethane	1.0	U	0.63	1.0
Carbon disulfide	1.0	U	0.28	1.0
Carbon tetrachloride	1.0	U	0.17	1.0
Chlorobenzene	1.0	U	0.19	1.0
Dibromochloromethane	1.0	U	0.43	1.0
Chloroethane	1.0	U	0.33	1.0
Chloroform	1.0	U	0.21	1.0
Chloromethane	1.0	U	0.44	1.0
cis-1,2-Dichloroethene	1.0	U	0.20	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Ethylbenzene	1.0	U	0.23	1.0
1,2-Dibromoethane	1.0	U	0.19	1.0
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.28	1.0
m,p-Xylene	2.0	U	0.22	2.0
o-Xylene	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.20	1.0
Toluene	1.0	U	0.22	1.0
trans-1,2-Dichloroethene	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.56	1.0
Trichloroethene	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.29	1.0
Xylenes, Total	2.0	U	0.43	2.0
cis-1,3-Dichloropropene	1.0	U	0.46	1.0
Styrene	1.0	U	0.45	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		63 - 129
4-Bromofluorobenzene (Surr)	83		66 - 120
Toluene-d8 (Surr)	87		74 - 120
Dibromofluoromethane (Surr)	91		75 - 121

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Client Sample ID: 1-3

Lab Sample ID: 480-68343-2

Client Matrix: Water

Date Sampled: 09/29/2014 1435

Date Received: 10/01/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Prep Method: 5030C

Dilution: 1.0

Analysis Date: 10/07/2014 1640

Prep Date: 10/07/2014 1640

Analysis Batch: 240-150407

Prep Batch: N/A

Instrument ID: A3UX15

Lab File ID: UXC5026.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Surrogate Recovery Report**8260C Volatile Organic Compounds by GC/MS****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
480-68343-1	1-2A	86	93	85	83
480-68343-2	1-3	91	96	87	83
MB 240-150407/7		84	90	82	82
LCS 240-150407/4		85	85	91	91

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Method Blank - Batch: 240-150407

Method: 8260C Preparation: 5030C

Lab Sample ID: MB 240-150407/7
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/07/2014 1229
Prep Date: 10/07/2014 1229
Leach Date: N/A

Analysis Batch: 240-150407
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: A3UX15
Lab File ID: UXC5015.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	1.0	U	0.22	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.22	1.0
1,1,2-Trichloroethane	1.0	U	0.17	1.0
1,1-Dichloroethane	1.0	U	0.26	1.0
1,1-Dichloroethene	1.0	U	0.45	1.0
1,2,4-Trimethylbenzene	1.0	U	0.41	1.0
1,2-Dichloroethane	1.0	U	0.20	1.0
1,2-Dichloropropane	1.0	U	0.22	1.0
1,3,5-Trimethylbenzene	1.0	U	0.48	1.0
2-Butanone (MEK)	10	U	4.1	10
2-Hexanone	10	U	3.9	10
4-Methyl-2-pentanone (MIBK)	10	U	3.6	10
Acetone	10	U	3.4	10
Benzene	1.0	U	0.24	1.0
Bromoform	1.0	U	0.56	1.0
Bromomethane	1.0	U	0.63	1.0
Carbon disulfide	1.0	U	0.28	1.0
Carbon tetrachloride	1.0	U	0.17	1.0
Chlorobenzene	1.0	U	0.19	1.0
Dibromochloromethane	1.0	U	0.43	1.0
Chloroethane	1.0	U	0.33	1.0
Chloroform	1.0	U	0.21	1.0
Chloromethane	1.0	U	0.44	1.0
cis-1,2-Dichloroethene	1.0	U	0.20	1.0
Bromodichloromethane	1.0	U	0.15	1.0
Ethylbenzene	1.0	U	0.23	1.0
1,2-Dibromoethane	1.0	U	0.19	1.0
Methyl tert-butyl ether	1.0	U	0.16	1.0
Methylene Chloride	1.0	U	0.28	1.0
m,p-Xylene	2.0	U	0.22	2.0
o-Xylene	1.0	U	0.21	1.0
Tetrachloroethene	1.0	U	0.20	1.0
Toluene	1.0	U	0.22	1.0
trans-1,2-Dichloroethene	1.0	U	0.26	1.0
trans-1,3-Dichloropropene	1.0	U	0.56	1.0
Trichloroethene	1.0	U	0.15	1.0
Vinyl chloride	1.0	U	0.29	1.0
Xylenes, Total	2.0	U	0.43	2.0
cis-1,3-Dichloropropene	1.0	U	0.46	1.0
Styrene	1.0	U	0.45	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90	63 - 129
4-Bromofluorobenzene (Surr)	82	66 - 120
Toluene-d8 (Surr)	82	74 - 120

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Surrogate	% Rec	Acceptance Limits
Dibromofluoromethane (Surr)	84	75 - 121

Lab Control Sample - Batch: 240-150407

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 240-150407/4	Analysis Batch:	240-150407	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC5010.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2014 1036	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/07/2014 1036				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	10.0	9.73	97	80 - 120	
1,1-Dichloroethene	10.0	9.56	96	78 - 131	
1,2,4-Trimethylbenzene	10.0	10.6	106	76 - 120	
1,2-Dichloroethane	10.0	10.6	106	71 - 127	
Benzene	10.0	10.0	100	80 - 120	
Chlorobenzene	10.0	10.6	106	80 - 120	
cis-1,2-Dichloroethene	10.0	9.79	98	80 - 120	
Ethylbenzene	10.0	10.5	105	80 - 120	
Methyl tert-butyl ether	10.0	9.77	98	52 - 144	
m,p-Xylene	10.0	10.8	108	80 - 120	
o-Xylene	10.0	10.6	106	80 - 120	
Tetrachloroethene	10.0	11.0	110	79 - 120	
Toluene	10.0	10.7	107	80 - 120	
trans-1,2-Dichloroethene	10.0	9.93	99	80 - 120	
Trichloroethene	10.0	11.0	110	76 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	85	63 - 129
4-Bromofluorobenzene (Surr)	91	66 - 120
Toluene-d8 (Surr)	91	74 - 120
Dibromofluoromethane (Surr)	85	75 - 121

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Analyzed for but not detected.

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-150407					
LCS 240-150407/4	Lab Control Sample	T	Water	8260C	
MB 240-150407/7	Method Blank	T	Water	8260C	
480-68343-1	1-2A	T	Water	8260C	
480-68343-2	1-3	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Laboratory Chronicle

Lab ID: 480-68343-1

Client ID: 1-2A

Sample Date/Time: 09/29/2014 14:30

Received Date/Time: 10/01/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-68343-B-1		240-150407		10/07/2014 16:18	1	TAL CAN	LEE
A:8260C	480-68343-B-1		240-150407		10/07/2014 16:18	1	TAL CAN	LEE

Lab ID: 480-68343-2

Client ID: 1-3

Sample Date/Time: 09/29/2014 14:35

Received Date/Time: 10/01/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-68343-B-2		240-150407		10/07/2014 16:40	1	TAL CAN	LEE
A:8260C	480-68343-B-2		240-150407		10/07/2014 16:40	1	TAL CAN	LEE

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:5030C	MB 240-150407/7		240-150407		10/07/2014 12:29	1	TAL CAN	LEE
A:8260C	MB 240-150407/7		240-150407		10/07/2014 12:29	1	TAL CAN	LEE

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:5030C	LCS 240-150407/4		240-150407		10/07/2014 10:36	1	TAL CAN	LEE
A:8260C	LCS 240-150407/4		240-150407		10/07/2014 10:36	1	TAL CAN	LEE

Lab References:

TAL CAN = TestAmerica Canton

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 480-68343-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
1-2A	480-68343-1	86	93	85	83
1-3	480-68343-2	91	96	87	83
	MB 240-150407/7	84	90	82	82
	LCS 240-150407/4	85	85	91	91

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 480-68343-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: UXC5010.D
 Lab ID: LCS 240-150407/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	10.0	9.73	97	80-120	
1,1-Dichloroethene	10.0	9.56	96	78-131	
1,2,4-Trimethylbenzene	10.0	10.6	106	76-120	
1,2-Dichloroethane	10.0	10.6	106	71-127	
Benzene	10.0	10.0	100	80-120	
Chlorobenzene	10.0	10.6	106	80-120	
cis-1,2-Dichloroethene	10.0	9.79	98	80-120	
Ethylbenzene	10.0	10.5	105	80-120	
Methyl tert-butyl ether	10.0	9.77	98	52-144	
m,p-Xylene	10.0	10.8	108	80-120	
o-Xylene	10.0	10.6	106	80-120	
Tetrachloroethene	10.0	11.0	110	79-120	
Toluene	10.0	10.7	107	80-120	
trans-1,2-Dichloroethene	10.0	9.93	99	80-120	
Trichloroethene	10.0	11.0	110	76-120	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 480-68343-1
SDG No.: _____
Lab File ID: UXC5015.D Lab Sample ID: MB 240-150407/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: A3UX15 Date Analyzed: 10/07/2014 12:29
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-150407/4	UXC5010.D	10/07/2014 10:36
1-2A	480-68343-1	UXC5025.D	10/07/2014 16:18
1-3	480-68343-2	UXC5026.D	10/07/2014 16:40

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

Lab Name: TestAmerica Canton Job No.: 480-68343-1
SDG No.: _____
Lab File ID: BFB497.D BFB Injection Date: 10/02/2014
Instrument ID: A3UX15 BFB Injection Time: 07:59
Analysis Batch No.: 149718

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.4
75	30.0 - 60.0 % of mass 95	48.9
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	0.4 (0.5) 1
174	50.0 - 120.00 % of mass 95	76.0
175	5.0 - 9.0 % of mass 174	5.2 (6.8) 1
176	95.0 - 101.0 % of mass 174	73.4 (96.6) 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
	STD8260 240-149718/2	UXC4768.D	10/02/2014	08:39
	STD8260 240-149718/3	UXC4769.D	10/02/2014	09:02
	STD8260 240-149718/4	UXC4770.D	10/02/2014	09:24
	STD8260 240-149718/5	UXC4771.D	10/02/2014	09:46
	STD8260 240-149718/6	UXC4772.D	10/02/2014	10:09
	STD8260 240-149718/7	UXC4773.D	10/02/2014	10:32
	ICV 240-149718/14	UXC4780.D	10/02/2014	13:26
	ICV 240-149718/15	UXC4781.D	10/02/2014	13:49

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

Lab Name: TestAmerica Canton Job No.: 480-68343-1
 SDG No.: _____
 Lab File ID: BFB502.D BFB Injection Date: 10/07/2014
 Instrument ID: A3UX15 BFB Injection Time: 09:45
 Analysis Batch No.: 150407

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.6
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	0.4 (0.5) 1
174	50.0 - 120.00 % of mass 95	81.8
175	5.0 - 9.0 % of mass 174	5.3 (6.5) 1
176	95.0 - 101.0 % of mass 174	78.0 (95.3) 1
177	5.0 - 9.0 % of mass 176	5.1 (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
	CCVIS 240-150407/2	UXC5009.D	10/07/2014	10:13
	LCS 240-150407/4	UXC5010.D	10/07/2014	10:36
	CCV 240-150407/3	UXC5011.D	10/07/2014	10:59
	MB 240-150407/7	UXC5015.D	10/07/2014	12:29
1-2A	480-68343-1	UXC5025.D	10/07/2014	16:18
1-3	480-68343-2	UXC5026.D	10/07/2014	16:40

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

Lab Name: TestAmerica Canton Job No.: 480-68343-1
 SDG No.: _____
 Sample No.: STD8260 240-149718/4 Date Analyzed: 10/02/2014 09:24
 Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXC4770.D Heated Purge: (Y/N) N
 Calibration ID: 24494

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1297045	5.21	823919	7.89	558008	10.12
UPPER LIMIT		2594090	5.71	1647838	8.39	1116016	10.62
LOWER LIMIT		648523	4.71	411960	7.39	279004	9.62
LAB SAMPLE ID		CLIENT SAMPLE ID					
ICV 240-149718/14		1426351	5.21	955073	7.89	623628	10.12
ICV 240-149718/15		1291641	5.21	847463	7.89	530046	10.12
CCVIS 240-150407/2		919871	5.21	606632	7.89	386898	10.12

FB = Fluorobenzene

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Canton Job No.: 480-68343-1
 SDG No.: _____
 Sample No.: CCVIS 240-150407/2 Date Analyzed: 10/07/2014 10:13
 Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): UXC5009.D Heated Purge: (Y/N) N
 Calibration ID: 24496

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	919871	5.21	606632	7.89	386898	10.12
UPPER LIMIT	1839742	5.71	1213264	8.39	773796	10.62
LOWER LIMIT	459936	4.71	303316	7.39	193449	9.62
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 240-150407/4		1090923	5.21	703414	7.89	443622 10.12
CCV 240-150407/3		990584	5.21	638934	7.89	386816 10.12
MB 240-150407/7		930104	5.21	625225	7.89	388019 10.12
480-68343-1	1-2A	901498	5.21	597697	7.89	363404 10.12
480-68343-2	1-3	892066	5.21	575208	7.89	371895 10.12

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

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-68343-1

SDG No.: _____

Client Sample ID: 1-2A Lab Sample ID: 480-68343-1

Matrix: Water Lab File ID: UXC5025.D

Analysis Method: 8260C Date Collected: 09/29/2014 14:30

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2014 16:18

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

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

Analysis Batch No.: 150407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.17
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.20
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.22
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.48
78-93-3	2-Butanone (MEK)	10	U	10	4.1
591-78-6	2-Hexanone	10	U	10	3.9
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	3.6
67-64-1	Acetone	10	U	10	3.4
71-43-2	Benzene	1.0	U	1.0	0.24
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.63
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.17
108-90-7	Chlorobenzene	1.0	U	1.0	0.19
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43
75-00-3	Chloroethane	1.0	U	1.0	0.33
67-66-3	Chloroform	1.0	U	1.0	0.21
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.20
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.19
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.28
179601-23-1	m,p-Xylene	2.0	U	2.0	0.22
95-47-6	o-Xylene	1.0	U	1.0	0.21
127-18-4	Tetrachloroethene	1.0	U	1.0	0.20
108-88-3	Toluene	1.0	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-68343-1
 SDG No.: _____
 Client Sample ID: 1-2A Lab Sample ID: 480-68343-1
 Matrix: Water Lab File ID: UXC5025.D
 Analysis Method: 8260C Date Collected: 09/29/2014 14:30
 Sample wt/vol: 5(mL) Date Analyzed: 10/07/2014 16:18
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 150407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.43
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
100-42-5	Styrene	1.0	U	1.0	0.45

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		63-129
460-00-4	4-Bromofluorobenzene (Surr)	83		66-120
2037-26-5	Toluene-d8 (Surr)	85		74-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-121

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\UXC5025.D
 Lims ID: 480-68343-B-1 Lab Sample ID: 240-68343-1
 Client ID: 1-2A
 Sample Type: Client
 Inject. Date: 07-Oct-2014 16:18:30 ALS Bottle#: 17 Worklist Smp#: 40
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0035882-040
 Misc. Info.: C41007A,8260LLUX15,,43582
 Operator ID: 43582 Instrument ID: A3UX15
 Method: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\8260_15.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 08-Oct-2014 08:15:15 Calib Date: 02-Oct-2014 13:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: evansle

Date: 08-Oct-2014 07:53:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.209	5.209	0.000	99	901498	10.0	
* 2 Chlorobenzene-d5	117	7.889	7.890	-0.001	85	597697	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	95	363404	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	93	256607	7.69	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	268223	8.24	
\$ 6 Toluene-d8 (Surr)	98	6.585	6.573	0.012	93	800568	7.54	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	88	287585	7.36	
10 Chloromethane	50		1.521				ND	
11 Vinyl chloride	62		1.616				ND	
12 Bromomethane	94		1.925				ND	
13 Chloroethane	64		2.008				ND	
18 1,1-Dichloroethene	96		2.707				ND	
20 Acetone	43	2.755	2.755	0.000	93	6486	0.8702	
23 Carbon disulfide	76		2.897				ND	
27 Methylene Chloride	84		3.134				ND	
30 Methyl tert-butyl ether	73		3.371				ND	
31 trans-1,2-Dichloroethene	96		3.371				ND	
33 1,1-Dichloroethane	63	3.739	3.739	0.000	93	9564	0.1315	
39 cis-1,2-Dichloroethene	96		4.237				ND	
40 2-Butanone (MEK)	43	4.249	4.249	0.000	96	8982	1.16	
46 Chloroform	83		4.510				ND	
47 1,1,1-Trichloroethane	97		4.664				ND	
50 Carbon tetrachloride	117		4.806				ND	
52 Benzene	78		4.972				ND	
53 1,2-Dichloroethane	62		4.996				ND	
57 Trichloroethene	130		5.518				ND	
60 1,2-Dichloropropane	63		5.719				ND	
64 Dichlorobromomethane	83		5.956				ND	
67 cis-1,3-Dichloropropene	75		6.336				ND	
68 4-Methyl-2-pentanone (MIBK	43		6.466				ND	
69 Toluene	91		6.632				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
70 trans-1,3-Dichloropropene	75		6.834				ND	
72 1,1,2-Trichloroethane	97		7.000				ND	
73 Tetrachloroethene	164		7.130				ND	
75 2-Hexanone	43		7.213				ND	
77 Chlorodibromomethane	129		7.356				ND	
79 Ethylene Dibromide	107		7.463				ND	
81 Chlorobenzene	112		7.913				ND	
83 Ethylbenzene	106		8.008				ND	
84 m-Xylene & p-Xylene	91		8.115				ND	
85 o-Xylene	106		8.494				ND	
86 Styrene	104		8.506				ND	
87 Bromoform	173		8.684				ND	
91 1,1,2,2-Tetrachloroethane	83		9.135				ND	
97 1,3,5-Trimethylbenzene	105		9.407				ND	
101 1,2,4-Trimethylbenzene	105		9.775				ND	
S 132 Xylenes, Total	106		16.530				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

vm50ss_stk_00060	Amount Added: 0.89	Units: uL	Run Reagent
VM50IS_00044	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00028	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\UXC5025.D

Injection Date: 07-Oct-2014 16:18:30

Instrument ID: A3UX15

Operator ID: 43582

Lims ID: 480-68343-B-1

Lab Sample ID: 240-68343-1

Worklist Smp#: 40

Client ID: 1-2A

Purge Vol: 5.000 mL

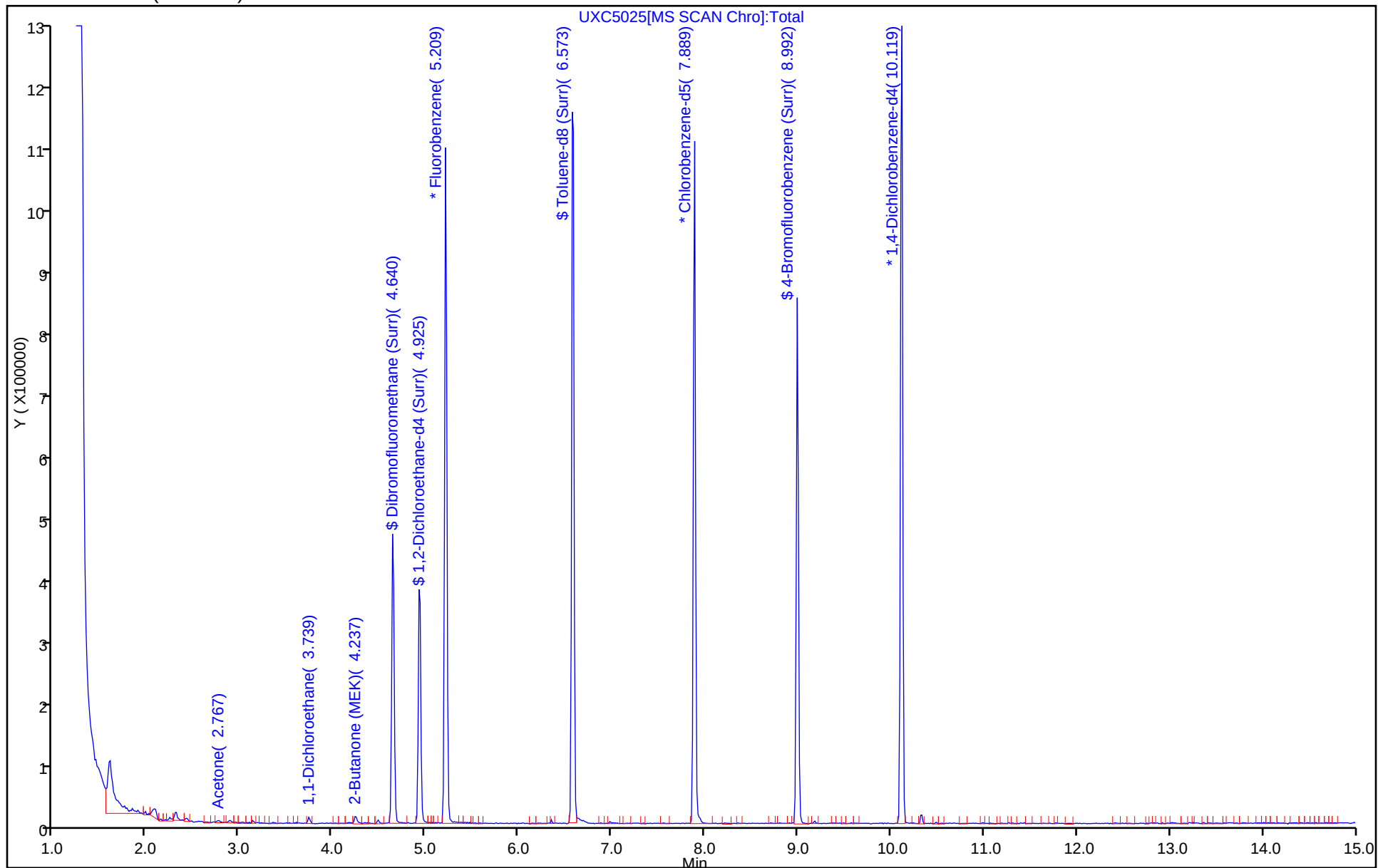
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 8260_15

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-68343-1

SDG No.: _____

Client Sample ID: 1-3 Lab Sample ID: 480-68343-2

Matrix: Water Lab File ID: UXC5026.D

Analysis Method: 8260C Date Collected: 09/29/2014 14:35

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2014 16:40

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

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

Analysis Batch No.: 150407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.17
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.20
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.22
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.48
78-93-3	2-Butanone (MEK)	10	U	10	4.1
591-78-6	2-Hexanone	10	U	10	3.9
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	3.6
67-64-1	Acetone	10	U	10	3.4
71-43-2	Benzene	1.0	U	1.0	0.24
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.63
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.17
108-90-7	Chlorobenzene	1.0	U	1.0	0.19
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43
75-00-3	Chloroethane	1.0	U	1.0	0.33
67-66-3	Chloroform	1.0	U	1.0	0.21
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.20
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.19
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.28
179601-23-1	m,p-Xylene	2.0	U	2.0	0.22
95-47-6	o-Xylene	1.0	U	1.0	0.21
127-18-4	Tetrachloroethene	1.0	U	1.0	0.20
108-88-3	Toluene	1.0	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-68343-1
 SDG No.: _____
 Client Sample ID: 1-3 Lab Sample ID: 480-68343-2
 Matrix: Water Lab File ID: UXC5026.D
 Analysis Method: 8260C Date Collected: 09/29/2014 14:35
 Sample wt/vol: 5(mL) Date Analyzed: 10/07/2014 16:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 150407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.43
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
100-42-5	Styrene	1.0	U	1.0	0.45

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		63-129
460-00-4	4-Bromofluorobenzene (Surr)	83		66-120
2037-26-5	Toluene-d8 (Surr)	87		74-120
1868-53-7	Dibromofluoromethane (Surr)	91		75-121

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\UXC5026.D
 Lims ID: 480-68343-B-2 Lab Sample ID: 240-68343-2
 Client ID: 1-3
 Sample Type: Client
 Inject. Date: 07-Oct-2014 16:40:30 ALS Bottle#: 18 Worklist Smp#: 41
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0035882-041
 Misc. Info.: C41007A,8260LLUX15,,43582
 Operator ID: 43582 Instrument ID: A3UX15
 Method: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\8260_15.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 08-Oct-2014 08:15:15 Calib Date: 02-Oct-2014 13:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK020

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.209	5.209	0.000	99	892066	10.0	
* 2 Chlorobenzene-d5	117	7.889	7.890	-0.001	85	575208	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	94	371895	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	93	266554	8.07	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	273645	8.50	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	92	790131	7.73	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	89	278975	7.42	
10 Chloromethane	50		1.521				ND	
11 Vinyl chloride	62		1.616				ND	
12 Bromomethane	94		1.925				ND	
13 Chloroethane	64		2.008				ND	
18 1,1-Dichloroethene	96		2.707				ND	
20 Acetone	43		2.755				ND	
23 Carbon disulfide	76		2.897				ND	
27 Methylene Chloride	84		3.134				ND	
30 Methyl tert-butyl ether	73		3.371				ND	
31 trans-1,2-Dichloroethene	96		3.371				ND	
33 1,1-Dichloroethane	63		3.739				ND	
39 cis-1,2-Dichloroethene	96		4.237				ND	
40 2-Butanone (MEK)	43		4.249				ND	
46 Chloroform	83		4.510				ND	
47 1,1,1-Trichloroethane	97		4.664				ND	
50 Carbon tetrachloride	117		4.806				ND	
52 Benzene	78		4.972				ND	
53 1,2-Dichloroethane	62		4.996				ND	
57 Trichloroethene	130		5.518				ND	
60 1,2-Dichloropropane	63		5.719				ND	
64 Dichlorobromomethane	83		5.956				ND	
67 cis-1,3-Dichloropropene	75		6.336				ND	
68 4-Methyl-2-pentanone (MIBK	43		6.466				ND	
69 Toluene	91		6.632				ND	
70 trans-1,3-Dichloropropene	75		6.834				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
72 1,1,2-Trichloroethane	97		7.000				ND	
73 Tetrachloroethene	164		7.130				ND	
75 2-Hexanone	43		7.213				ND	
77 Chlorodibromomethane	129		7.356				ND	
79 Ethylene Dibromide	107		7.463				ND	
81 Chlorobenzene	112		7.913				ND	
83 Ethylbenzene	106		8.008				ND	
84 m-Xylene & p-Xylene	91		8.115				ND	
85 o-Xylene	106		8.494				ND	
86 Styrene	104		8.506				ND	
87 Bromoform	173		8.684				ND	
91 1,1,2,2-Tetrachloroethane	83		9.135				ND	
97 1,3,5-Trimethylbenzene	105		9.407				ND	
101 1,2,4-Trimethylbenzene	105		9.775				ND	
S 132 Xylenes, Total	106		16.530				0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

vm50ss_stk_00060	Amount Added: 0.89	Units: uL	Run Reagent
VM50IS_00044	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00028	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\UXC5026.D

Injection Date: 07-Oct-2014 16:40:30

Instrument ID: A3UX15

Operator ID: 43582

Lims ID: 480-68343-B-2

Lab Sample ID: 240-68343-2

Worklist Smp#: 41

Client ID: 1-3

Purge Vol: 5.000 mL

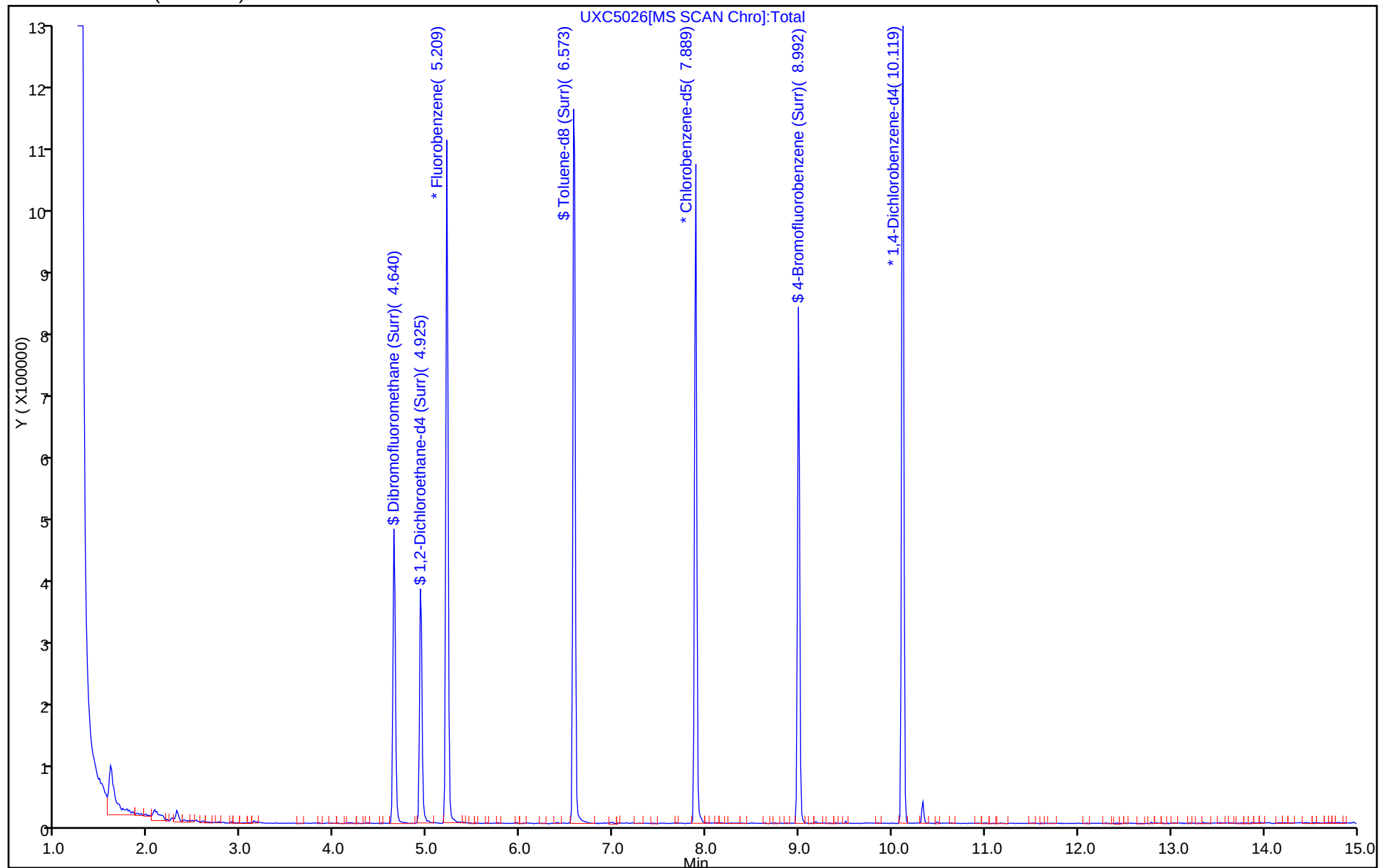
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 8260_15

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 480-68343-1 Analy Batch No.: 149718

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-149718/7	UXC4773.D
Level 2	STD8260 240-149718/6	UXC4772.D
Level 3	STD8260 240-149718/5	UXC4771.D
Level 4	STD8260 240-149718/4	UXC4770.D
Level 5	STD8260 240-149718/3	UXC4769.D
Level 6	STD8260 240-149718/2	UXC4768.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								
Dichlorodifluoromethane	0.6151 0.5261	0.5948	0.6413	0.6318	0.5936	Ave		0.6004			0.1000	6.9		15.0			
Chloromethane	0.7335 0.4952	0.6824	0.6846	0.6934	0.5920	Ave		0.6469			0.1000	14.0		15.0			
Vinyl chloride	0.6722 0.5090	0.6419	0.6540	0.6524	0.5696	Ave		0.6165			0.1000	10.0		15.0			
Bromomethane	0.3076 0.1833	0.2803	0.3071	0.3094	0.2449	Qua	0.0102	0.3213	-0.003470		0.0500				0.9980		0.9900
Chloroethane	0.3713 0.2430	0.3339	0.3712	0.3549	0.3002	Ave		0.3291				15.0		15.0			
Dichlorofluoromethane	0.7933 0.6075	0.7548	0.8367	0.8393	0.7272	Ave		0.7598				11.0		15.0			
Trichlorofluoromethane	0.7248 0.5465	0.7018	0.7346	0.7413	0.6713	Ave		0.6867			0.1000	11.0		15.0			
Ethyl ether	0.2959 0.2456	0.3256	0.3117	0.3204	0.2819	Ave		0.2969				10.0		15.0			
Acrolein	0.0046 0.0140	0.0036	0.0061	0.0070	0.0098	Qua	-0.016	0.0055	0.0000430						1.0000		0.9900
1,1-Dichloroethene	0.4544 0.3918	0.4793	0.4843	0.4882	0.4345	Ave		0.4554			0.1000	8.2		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4191 0.3255	0.3951	0.4118	0.4127	0.3696	Ave		0.3890			0.0500	9.2		15.0			
Acetone	0.0706 0.0859	0.0785	0.0819	0.0922	0.0870	Ave		0.0827			0.0500	9.1		15.0			
Iodomethane	0.7276 0.6231	0.7391	0.7511	0.7699	0.6783	Ave		0.7149				7.6		15.0			
Carbon disulfide	1.3846 1.3141	1.3993	1.4414	1.4885	1.3810	Ave		1.4015			0.1000	4.2		15.0			
3-Chloro-1-propene	0.2116 0.2597	0.2438	0.2614	0.2748	0.2555	Ave		0.2511				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 CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 480-68343-1 Analy Batch No.: 149718

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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								
Methyl acetate	0.2150 0.1603	0.2079	0.2035	0.2033	0.1779	Ave		0.1946			0.1000	11.0		15.0			
Methylene Chloride	1.0025 0.4441	0.7635	0.6394	0.5950	0.4911	Lin1	0.6477	0.4535			0.1000				0.9910		0.9900
2-Methyl-2-propanol	0.0057 0.0120	0.0077	0.0080	0.0078	0.0128	Qua	-0.165	0.0124	0.0000002						0.9910		0.9900
Acrylonitrile	0.0992 0.0941	0.1108	0.1146	0.1151	0.1050	Ave		0.1065				8.1		15.0			
Methyl tert-butyl ether	0.8296 0.7978	0.8983	0.9541	0.9683	0.8775	Ave		0.8876			0.1000	7.6		15.0			
trans-1,2-Dichloroethene	0.5089 0.4289	0.5240	0.5321	0.5392	0.4704	Ave		0.5006			0.1000	8.6		15.0			
Hexane	0.0957 0.0890	0.0978	0.0975	0.1014	0.0956	Ave		0.0962				4.3		15.0			
1,1-Dichloroethane	0.8090 0.7125	0.8324	0.8608	0.8562	0.7702	Ave		0.8068			0.1000	7.1		15.0			
Vinyl acetate	0.2839 0.2557	0.2336	0.2683	0.2611	0.2628	Ave		0.2609				6.3		15.0			
2,2-Dichloropropane	0.3659 0.4425	0.4202	0.4273	0.4535	0.4304	Ave		0.4233				7.2		15.0			
cis-1,2-Dichloroethene	0.5136 0.4470	0.5195	0.5386	0.5413	0.4799	Ave		0.5066			0.1000	7.2		15.0			
2-Butanone (MEK)	0.1009 0.0790	0.0787	0.0917	0.0812	0.0824	Ave		0.0856			0.0500	10.0		15.0			
Chlorobromomethane	0.2189 0.1892	0.2211	0.2288	0.2322	0.2062	Ave		0.2161				7.4		15.0			
Tetrahydrofuran	0.0453 0.0493	0.0569	0.0503	0.0552	0.0510	Ave		0.0513				8.2		15.0			
Chloroform	0.7906 0.6826	0.7805	0.7937	0.8139	0.7279	Ave		0.7649				6.5		15.0			
1,1,1-Trichloroethane	0.5441 0.5808	0.5709	0.6049	0.6465	0.6038	Ave		0.5918			0.1000	5.9		15.0			
Cyclohexane	0.7614 0.7215	0.8007	0.8356	0.8443	0.7853	Ave		0.7915			0.1000	5.8		15.0			
1,1-Dichloropropene	0.4852 0.4791	0.4804	0.4946	0.5080	0.4861	Ave		0.4889				2.2		15.0			
Carbon tetrachloride	0.4187 0.5064	0.4589	0.4833	0.5201	0.5208	Ave		0.4847			0.1000	8.3		15.0			
Isobutyl alcohol	0.0031 0.0048	0.0033	0.0034	0.0049	0.0053	Lin1	-0.068	0.0050							0.9930		0.9900

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 Canton Job No.: 480-68343-1 Analy Batch No.: 149718

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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								
Benzene	1.5635 1.5437	1.5911	1.5873	1.6253	1.5387	Ave		1.5749			0.5000	2.1		15.0			
1,2-Dichloroethane	0.4475 0.4077	0.4184	0.4110	0.4231	0.4100	Ave		0.4196			0.1000	3.5		15.0			
n-Heptane	0.0729 0.0739	0.0762	0.0738	0.0782	0.0799	Ave		0.0758				3.7		15.0			
Trichloroethene	0.3482 0.3668	0.3288	0.3389	0.3568	0.3535	Ave		0.3488			0.2000	3.9		15.0			
Methylcyclohexane	0.6784 0.6560	0.7103	0.7472	0.7644	0.7162	Ave		0.7121			0.1000	5.7		15.0			
1,2-Dichloropropane	0.3233 0.3286	0.3111	0.3143	0.3348	0.3165	Ave		0.3215			0.1000	2.8		15.0			
Dibromomethane	0.1589 0.1603	0.1589	0.1509	0.1603	0.1568	Ave		0.1577				2.2		15.0			
1,4-Dioxane	0.0013 0.0025	0.0023	0.0026	0.0024	0.0021	Lin1	-0.013	0.0024							0.9920		0.9900
Bromodichloromethane	0.2913 0.3871	0.2949	0.3197	0.3518	0.3622	Ave		0.3345			0.1000	12.0		15.0			
2-Chloroethyl vinyl ether	0.0783 0.1061	0.0828	0.0922	0.0983	0.0913	Ave		0.0915				11.0		15.0			
cis-1,3-Dichloropropene	0.2194 0.3701	0.2185	0.2560	0.2842	0.3000	Qua	-0.009	0.2398	0.0032529		0.1500				1.0000		0.9900
4-Methyl-2-pentanone (MIBK)	0.1494 0.1588	0.1515	0.1685	0.1688	0.1636	Ave		0.1601			0.0500	5.2		15.0			
Toluene	2.0018 1.7537	2.0268	2.1193	2.2582	2.2228	Ave		2.0638			0.4000	8.9		15.0			
trans-1,3-Dichloropropene	0.2106 0.2967	0.2299	0.2743	0.3037	0.3344	Lin1	-0.119	0.3122			0.1000				0.9960		0.9900
Ethyl methacrylate	0.2776 0.2506	0.2667	0.3006	0.3255	0.3322	Ave		0.2922				11.0		15.0			
1,1,2-Trichloroethane	0.3117 0.2474	0.3033	0.3213	0.3380	0.3206	Ave		0.3070			0.1000	10.0		15.0			
Tetrachloroethene	0.3974 0.3271	0.3966	0.4117	0.4358	0.4302	Ave		0.3998			0.2000	9.8		15.0			
1,3-Dichloropropane	0.5633 0.4325	0.5298	0.5392	0.5615	0.5450	Ave		0.5285				9.2		15.0			
2-Hexanone	0.1855 0.1133	0.1617	0.1744	0.1708	0.1580	Qua	-0.124	0.2032	-0.001101		0.0500				1.0000		0.9900
Dibromochloromethane	0.2216 0.2741	0.2262	0.2622	0.3099	0.3258	Lin1	-0.082	0.2956							0.9910		0.9900

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 Canton Job No.: 480-68343-1 Analy Batch No.: 149718

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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-Dibromoethane	0.2596 0.2227	0.2476	0.2651	0.2994	0.2792	Ave		0.2623				10.0		15.0			
Chlorobenzene	1.3698 1.0638	1.3248	1.3264	1.3805	1.3482	Ave		1.3023			0.3000	9.1		15.0			
1,1,1,2-Tetrachloroethane	0.3798 0.3944	0.3890	0.4339	0.5083	0.5247	Ave		0.4384				14.0		15.0			
Ethylbenzene	0.7323 0.6215	0.7404	0.7809	0.8620	0.8205	Ave		0.7596				11.0		15.0			
m,p-Xylene	1.7414 1.5754	1.8287	1.8841	2.0743	2.0518	Ave		1.8593				10.0		15.0			
o-Xylene	0.9126 0.7975	0.9289	1.0390	1.1369	1.0931	Ave		0.9847				13.0		15.0			
Styrene	1.1981 1.1025	1.2216	1.3703	1.4965	1.4532	Ave		1.3070			0.3000	12.0		15.0			
Bromoform	0.1337 0.1417	0.1240	0.1412	0.1630	0.1734	Ave		0.1462			0.1000	13.0		15.0			
Isopropylbenzene	2.2477 2.1838	2.4480	2.6204	2.9861	2.9393	Ave		2.5709			0.1000	13.0		15.0			
1,1,2,2-Tetrachloroethane	0.6625 0.6850	0.6405	0.6632	0.7145	0.7178	Ave		0.6806			0.3000	4.5		15.0			
Bromobenzene	0.8834 0.9447	0.8159	0.8705	0.9313	0.9245	Ave		0.8951				5.4		15.0			
1,2,3-Trichloropropane	0.2167 0.2146	0.2012	0.2218	0.2340	0.2236	Ave		0.2186				5.0		15.0			
trans-1,4-Dichloro-2-butene	0.0435 0.1389	0.0578	0.0721	0.0877	0.0974	Qua	0	0.0613	0.0019369						1.0000		0.9900
N-Propylbenzene	0.8589 1.1627	0.9578	1.0129	1.1773	1.1749	Ave		1.0574				13.0		15.0			
2-Chlorotoluene	0.8606 1.0170	0.8647	0.9126	1.0314	1.0208	Ave		0.9512				8.5		15.0			
1,3,5-Trimethylbenzene	2.6110 3.9300	2.8430	3.1674	3.7244	3.8595	Lin1	-1.851	3.9343							0.9990		0.9900
4-Chlorotoluene	3.0132 3.3470	3.0610	3.0701	3.4126	3.2938	Ave		3.1996				5.4		15.0			
tert-Butylbenzene	1.9850 3.2275	2.0647	2.3184	2.7320	3.0130	Lin1	-1.902	3.1513							0.9950		0.9900
1,2,4-Trimethylbenzene	2.8439 4.0670	3.1796	3.4291	3.9605	4.0179	Ave		3.5830				14.0		15.0			
sec-Butylbenzene	3.1990 4.5845	3.4040	3.6662	4.3418	4.5447	Ave		3.9567				15.0		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 Canton Job No.: 480-68343-1 Analy Batch No.: 149718

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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								
1,3-Dichlorobenzene	1.9334 1.9605	1.9455	1.9062	2.0941	1.9732	Ave		1.9688			0.6000	3.3		15.0			
4-Isopropyltoluene	2.8530 4.0984	3.1037	3.3761	3.9529	4.0511	Ave		3.5725				15.0		15.0			
1,4-Dichlorobenzene	1.9952 1.9477	2.0143	1.9544	2.0924	1.9775	Ave		1.9969			0.5000	2.7		15.0			
n-Butylbenzene	2.6831 3.3901	2.8014	2.9281	3.3935	3.4611	Ave		3.1095				11.0		15.0			
1,2-Dichlorobenzene	1.9768 1.9538	1.9197	1.9314	2.1255	2.0001	Ave		1.9845			0.4000	3.8		15.0			
1,2-Dibromo-3-Chloropropane	0.1032 0.1222	0.0873	0.1061	0.1124	0.1171	Ave		0.1081			0.0500	11.0		15.0			
1,2,4-Trichlorobenzene	1.2590 1.4251	1.2979	1.2858	1.4739	1.4555	Ave		1.3662			0.2000	7.0		15.0			
Hexachlorobutadiene	0.6091 0.5851	0.6044	0.5636	0.6235	0.6336	Ave		0.6032				4.2		15.0			
Naphthalene	2.0045 2.9480	2.2549	2.4593	2.9789	3.0081	Lin1	-1.262	3.0032							0.9990		0.9900
1,2,3-Trichlorobenzene	1.0981 1.2114	1.2489	1.1415	1.3164	1.2706	Ave		1.2145				6.8		15.0			
Dibromofluoromethane (Surr)	0.3698 0.3378	0.3751	0.3874	0.3883	0.3626	Ave		0.3702				5.1		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3989 0.3364	0.3579	0.3643	0.3629	0.3449	Ave		0.3609				6.0		15.0			
Toluene-d8 (Surr)	1.6991 1.5188	1.6850	1.8292	1.9734	1.9548	Ave		1.7767				9.9		15.0			
4-Bromofluorobenzene (Surr)	0.6756 0.4929	0.6820	0.6917	0.7203	0.6609	Ave		0.6539				12.0		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 Canton Job No.: 480-68343-1 Analy Batch No.: 149718

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-149718/7	UXC4773.D
Level 2	STD8260 240-149718/6	UXC4772.D
Level 3	STD8260 240-149718/5	UXC4771.D
Level 4	STD8260 240-149718/4	UXC4770.D
Level 5	STD8260 240-149718/3	UXC4769.D
Level 6	STD8260 240-149718/2	UXC4768.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
Dichlorodifluoromethane	FB	Ave	80914 3305099	155283	414347	819447	1792207	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	96491 3111272	178149	442284	899404	1787298	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	88425 3197900	167595	422507	846169	1719779	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Qua	40458 1151530	73181	198423	401322	739335	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	48839 1526748	87171	239830	460273	906434	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	104354 3816665	197066	540552	1088633	2195642	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	95342 3433330	183235	474566	961557	2026837	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	38925 1543203	85017	201378	415626	851115	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Qua	3006 440541	4764	19758	45179	147490	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	59774 2461643	125142	312908	633248	1311720	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	55126 2045195	103152	266020	535246	1115829	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Ave	18561 1079632	40992	105787	239288	525275	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	95710 3914667	192964	485239	998565	2048071	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	182127 8255769	365333	931239	1930649	4169468	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	27833 1631812	63650	168883	356439	771510	1.00 40.0	2.00	5.00	10.0	20.0
Methyl acetate	FB	Ave	141412 5034215	271361	657494	1318244	2685791	5.00 200	10.0	25.0	50.0	100

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 480-68343-1 Analy Batch No.: 149718

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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
Methylene Chloride	FB	Lin1	131876 2789954	199336	413080	771788	1482673	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Qua	7529 755075	20018	51390	101612	385843	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	130512 5908886	289333	740456	1492315	3169453	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	109131 5012548	234516	616401	1255921	2649326	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	66939 2694323	136803	343796	699402	1420119	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	12588 558899	25532	63021	131582	288525	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	106421 4476345	217324	556124	1110489	2325361	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	35854 1542188	58542	166380	325121	761674	0.960 38.4	1.92	4.80	9.60	19.2
2,2-Dichloropropane	FB	Ave	48129 2779979	109693	276066	588263	1299455	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	67556 2808098	135636	347947	702126	1449026	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	26541 992520	41084	118460	210566	497757	2.00 80.0	4.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	28789 1188438	57730	147805	301149	622635	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	11920 619292	29723	65031	143117	307897	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	103990 4288196	203778	512801	1055661	2197815	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	71568 3648905	149041	390782	838536	1823087	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	100156 4532732	209057	539872	1095124	2371047	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	63825 3010068	125413	319540	658891	1467603	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	55078 3181782	119804	312228	674640	1572416	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Lin1	10148 748999	21642	55668	158502	396615	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	205669 9698498	415412	1025473	2108104	4645634	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	58859 2561660	109229	265500	548770	1238021	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 480-68343-1 Analy Batch No.: 149718

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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
n-Heptane	FB	Ave	9588 464493	19884	47665	101382	241333	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	45796 2304206	85850	218962	462830	1067365	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	89231 4121521	185455	482763	991442	2162404	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	42532 2064691	81231	203076	434283	955582	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	20902 1006843	41492	97498	207867	473542	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Lin1	3480 310917	12245	33912	62700	126522	20.0 800	40.0	100	200	400
Bromodichloromethane	FB	Ave	38317 2432192	76992	206563	456244	1093680	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	20594 1333683	43256	119087	254995	551242	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Qua	28856 2325003	57052	165413	368684	905648	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	39311 1994914	79082	217710	438008	988009	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	159572 9198744	338382	890578	1860569	4103285	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Lin1	16788 1556450	38384	115272	250254	617336	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	22133 1314617	44525	126327	268169	613178	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	24845 1297859	50635	134994	278483	591821	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	31679 1715716	66215	173010	359043	794104	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	44906 2268588	88444	226569	462649	1006039	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Qua	29581 1188891	53992	146542	281435	583413	2.00 80.0	4.00	10.0	20.0	40.0
Dibromochloromethane	CBZ	Lin1	17669 1437596	37758	110196	255303	601362	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	20692 1168295	41342	111412	246704	515377	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	109199 5579716	221186	557386	1137444	2488789	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	30279 2068767	64943	182313	418799	968637	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 480-68343-1 Analy Batch No.: 149718

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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
Ethylbenzene	CBZ	Ave	58378 3259988	123616	328151	710222	1514603	1.00 40.0	2.00	5.00	10.0	20.0
m,p-Xylene	CBZ	Ave	138817 8263341	305306	791712	1709034	3787588	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	72752 4182964	155088	436609	936753	2017805	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	95506 5782974	203949	575836	1232989	2682649	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	10662 743482	20702	59328	134265	320022	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	179181 11454870	408692	1101109	2460334	5425947	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	36888 1655089	74971	194450	398669	843113	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	49190 2282357	95505	255240	519686	1086015	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	12064 518465	23551	65025	130594	262595	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Qua	2423 335679	6767	21144	48911	114466	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	47827 2809040	112106	296998	656955	1380070	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	47918 2457202	101212	267604	575545	1199078	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Lin1	145385 9495055	332763	928739	2078260	4533636	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	167783 8086490	358281	900219	1904251	3869071	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Lin1	110531 7797661	241669	679792	1524460	3539195	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	158353 9825988	372169	1005488	2209996	4719636	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	178131 11076305	398433	1074998	2422766	5338523	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	107656 4736752	227723	558930	1168532	2317861	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	158863 9901775	363278	989932	2205738	4758624	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	111096 4705709	235770	573051	1167551	2322834	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	149402 8190547	327897	858576	1893587	4065639	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 480-68343-1 Analy Batch No.: 149718

SDG No.: _____

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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-Dichlorobenzene	DCB	Ave	110075 4720361	224700	566310	1186053	2349441	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	5748 295294	10224	31125	62707	137579	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	70106 3443084	151916	377030	822440	1709705	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	33917 1413533	70745	165251	347936	744219	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Lin1	111616 7122450	263934	721099	1662238	3533484	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	61143 2926760	146186	334694	734554	1492488	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	48645 2122061	97922	250305	503624	1094630	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	52466 2113337	93445	235377	470695	1041322	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	135445 7966350	281319	768669	1625932	3608500	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	53853 2585568	113861	290641	593486	1220060	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4768.D
 Lims ID: STD8260 L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 02-Oct-2014 08:39:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0035701-002
 Misc. Info.: C41002A-IC,8260LLUX15,,43582
 Operator ID: 43582 Instrument ID: A3UX15
 Sublist: chrom-8260_15*sub56
 Method: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\8260_15.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 02-Oct-2014 14:40:52 Calib Date: 02-Oct-2014 13:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: evansle

Date: 02-Oct-2014 08:59:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.209	5.209	0.000	99	1570651	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.984	7.889	0.095	54	1311326	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	87	604009	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	93	2122061	40.0	36.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	2113337	40.0	37.3	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	93	7966350	40.0	34.2	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	89	2585568	40.0	30.2	
9 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	3305099	40.0	35.0	
10 Chloromethane	50	1.521	1.521	0.000	99	3111272	40.0	30.6	
11 Vinyl chloride	62	1.628	1.616	0.012	98	3197900	40.0	33.0	
119 Butadiene	54	1.664	1.652	0.012	0	2871977	NC	NC	
12 Bromomethane	94	1.924	1.925	-0.001	91	1151530	40.0	40.6	
13 Chloroethane	64	2.019	2.008	0.011	100	1526748	40.0	29.5	
14 Dichlorofluoromethane	67	2.197	2.197	0.000	97	3816665	40.0	32.0	
15 Trichlorofluoromethane	101	2.245	2.245	0.000	97	3433330	40.0	31.8	
16 Ethyl ether	59	2.494	2.494	0.000	89	1543203	40.0	33.1	
17 Acrolein	56	2.612	2.612	0.000	100	440541	200.0	199.9	
18 1,1-Dichloroethene	96	2.707	2.707	0.000	98	2461643	40.0	34.4	
19 1,1,2-Trichloro-1,2,2-trif	151	2.731	2.719	0.012	93	2045195	40.0	33.5	
20 Acetone	43	2.755	2.755	0.000	100	1079632	80.0	83.1	
22 Iodomethane	142	2.838	2.838	0.000	99	3914667	40.0	34.9	
23 Carbon disulfide	76	2.897	2.897	0.000	99	8255769	40.0	37.5	
25 3-Chloro-1-propene	76	3.027	3.027	0.000	92	1631812	40.0	41.4	
26 Methyl acetate	43	3.051	3.051	0.000	97	5034215	200.0	164.7	
27 Methylene Chloride	84	3.134	3.134	0.000	92	2789954	40.0	37.7	
28 2-Methyl-2-propanol	59	3.241	3.229	0.012	90	755075	400.0	397.1	
29 Acrylonitrile	53	3.347	3.348	-0.001	99	5908886	400.0	353.4	
30 Methyl tert-butyl ether	73	3.371	3.371	0.000	96	5012548	40.0	36.0	
31 trans-1,2-Dichloroethene	96	3.371	3.371	0.000	97	2694323	40.0	34.3	
32 Hexane	86	3.608	3.608	0.000	90	558899	40.0	37.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 1,1-Dichloroethane	63	3.739	3.739	0.000	96	4476345	40.0	35.3	
34 Vinyl acetate	43	3.774	3.786	-0.012	97	1542188	38.4	37.6	
38 2,2-Dichloropropane	77	4.237	4.237	0.000	66	2779979	40.0	41.8	
39 cis-1,2-Dichloroethene	96	4.237	4.237	0.000	82	2808098	40.0	35.3	
40 2-Butanone (MEK)	43	4.249	4.249	0.000	99	992520	80.0	73.8	
43 Chlorobromomethane	128	4.438	4.439	-0.001	94	1188438	40.0	35.0	
45 Tetrahydrofuran	42	4.474	4.474	0.000	87	619292	80.0	76.8	
46 Chloroform	83	4.510	4.510	0.000	93	4288196	40.0	35.7	
47 1,1,1-Trichloroethane	97	4.664	4.664	0.000	98	3648905	40.0	39.3	
48 Cyclohexane	56	4.711	4.711	0.000	88	4532732	40.0	36.5	
49 1,1-Dichloropropene	75	4.794	4.794	0.000	96	3010068	40.0	39.2	
50 Carbon tetrachloride	117	4.806	4.806	0.000	96	3181782	40.0	41.8	
51 Isobutyl alcohol	41	4.889	4.889	0.000	93	748999	1000.0	972.5	
52 Benzene	78	4.972	4.972	0.000	95	9698498	40.0	39.2	
53 1,2-Dichloroethane	62	4.996	4.996	0.000	98	2561660	40.0	38.9	
55 n-Heptane	100	5.197	5.197	0.000	90	464493	40.0	39.0	
57 Trichloroethene	130	5.529	5.518	0.011	98	2304206	40.0	42.1	
59 Methylcyclohexane	83	5.684	5.684	0.000	87	4121521	40.0	36.9	
60 1,2-Dichloropropane	63	5.719	5.719	0.000	95	2064691	40.0	40.9	
62 Dibromomethane	93	5.826	5.814	0.012	94	1006843	40.0	40.7	
63 1,4-Dioxane	88	5.826	5.826	0.000	93	310917	800.0	826.7	
64 Dichlorobromomethane	83	5.956	5.956	0.000	100	2432192	40.0	46.3	
66 2-Chloroethyl vinyl ether	63	6.205	6.205	0.000	92	1333683	80.0	92.8	
67 cis-1,3-Dichloropropene	75	6.336	6.336	0.000	96	2325003	40.0	40.0	
68 4-Methyl-2-pentanone (MIBK)	43	6.466	6.478	-0.012	96	1994914	80.0	79.3	
69 Toluene	91	6.632	6.632	0.000	98	9198744	40.0	34.0	
70 trans-1,3-Dichloropropene	75	6.834	6.834	0.000	93	1556450	40.0	38.4	
71 Ethyl methacrylate	69	6.905	6.905	0.000	88	1314617	40.0	34.3	
72 1,1,2-Trichloroethane	97	7.000	7.000	0.000	91	1297859	40.0	32.2	
73 Tetrachloroethene	164	7.130	7.130	0.000	98	1715716	40.0	32.7	
74 1,3-Dichloropropane	76	7.142	7.154	-0.012	90	2268588	40.0	32.7	
75 2-Hexanone	43	7.213	7.213	0.000	96	1188891	80.0	79.5	
77 Chlorodibromomethane	129	7.356	7.356	0.000	90	1437596	40.0	37.4	
79 Ethylene Dibromide	107	7.462	7.462	0.000	99	1168295	40.0	34.0	
81 Chlorobenzene	112	7.913	7.913	0.000	95	5579716	40.0	32.7	
82 1,1,1,2-Tetrachloroethane	131	7.984	7.984	0.000	93	2068767	40.0	36.0	
83 Ethylbenzene	106	8.008	8.008	0.000	98	3259988	40.0	32.7	
84 m-Xylene & p-Xylene	91	8.115	8.115	0.000	92	8263341	40.0	33.9	
85 o-Xylene	106	8.494	8.494	0.000	97	4182964	40.0	32.4	
86 Styrene	104	8.506	8.506	0.000	93	5782974	40.0	33.7	
87 Bromoform	173	8.684	8.684	0.000	97	743482	40.0	38.8	
88 Isopropylbenzene	105	8.838	8.838	0.000	95	11454870	40.0	34.0	
91 1,1,2,2-Tetrachloroethane	83	9.134	9.135	0.000	96	1655089	40.0	40.3	
92 Bromobenzene	156	9.146	9.146	0.000	91	2282357	40.0	42.2	
93 1,2,3-Trichloropropane	110	9.170	9.170	0.000	84	518465	40.0	39.3	
94 trans-1,4-Dichloro-2-buten	53	9.182	9.182	0.000	75	335679	40.0	40.0	
95 N-Propylbenzene	120	9.241	9.241	0.000	99	2809040	40.0	44.0	
96 2-Chlorotoluene	126	9.324	9.324	0.000	96	2457202	40.0	42.8	
97 1,3,5-Trimethylbenzene	105	9.407	9.407	0.000	94	9495055	40.0	40.4	
98 4-Chlorotoluene	91	9.431	9.431	0.000	98	8086490	40.0	41.8	
99 tert-Butylbenzene	119	9.727	9.727	0.000	92	7797661	40.0	41.6	
101 1,2,4-Trimethylbenzene	105	9.775	9.775	0.000	96	9825988	40.0	45.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 sec-Butylbenzene	105	9.941	9.941	0.000	93	11076305	40.0	46.3	
103 1,3-Dichlorobenzene	146	10.048	10.048	0.000	97	4736752	40.0	39.8	
104 4-Isopropyltoluene	119	10.083	10.083	0.000	97	9901775	40.0	45.9	
105 1,4-Dichlorobenzene	146	10.142	10.142	0.000	96	4705709	40.0	39.0	
108 n-Butylbenzene	91	10.486	10.486	0.000	97	8190547	40.0	43.6	
109 1,2-Dichlorobenzene	146	10.510	10.510	0.000	98	4720361	40.0	39.4	
110 1,2-Dibromo-3-Chloropropan	157	11.281	11.281	0.000	89	295294	40.0	45.2	
112 1,2,4-Trichlorobenzene	180	12.099	12.099	0.000	94	3443084	40.0	41.7	
113 Hexachlorobutadiene	225	12.265	12.265	0.000	98	1413533	40.0	38.8	
114 Naphthalene	128	12.336	12.336	0.000	97	7122450	40.0	39.7	
115 1,2,3-Trichlorobenzene	180	12.585	12.585	0.000	96	2926760	40.0	39.9	
S 130 1,2-Dichloroethene, Total	96				0		80.0	69.6	
S 131 1,3-Dichloropropene, Total	75				0		80.0	78.4	
S 132 Xylenes, Total	106				0		80.0	66.3	
S 133 Trihalomethanes, Total	1				0		160.0	158.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRGAS_00071	Amount Added: 32.00	Units: uL
vm50ss_stk_00061	Amount Added: 32.00	Units: uL
VMRPRIMW_00084	Amount Added: 32.00	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL
VMAROLISTDW_00068	Amount Added: 32.00	Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4768.D

Injection Date: 02-Oct-2014 08:39:30

Instrument ID: A3UX15

Lims ID: STD8260 L6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_15

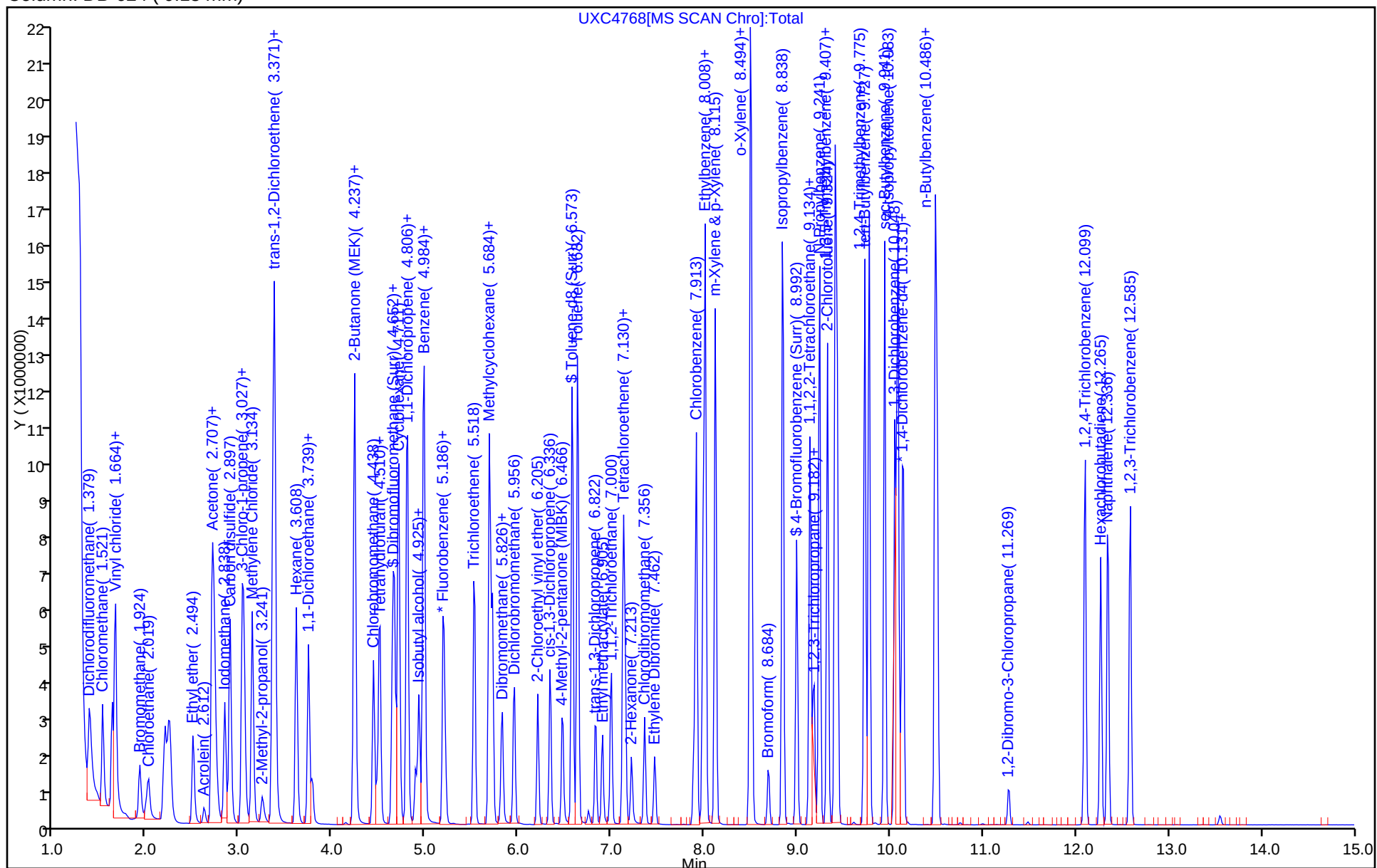
Limit Group: MSV 8260DOD ICAL

Operator ID: 43582

Worklist Smp#: 2

ALS Bottle#: 1

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4769.D
 Lims ID: STD8260 L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 02-Oct-2014 09:02:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0035701-003
 Misc. Info.: C41002A-IC,8260LLUX15,,43582
 Operator ID: 43582 Instrument ID: A3UX15
 Sublist: chrom-8260_15*sub56
 Method: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\8260_15.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 02-Oct-2014 14:40:53 Calib Date: 02-Oct-2014 13:04:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: evansle

Date: 02-Oct-2014 09:21:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.209	5.209	0.000	97	1509607	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.889	7.889	0.000	82	922988	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	85	587329	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	62	1094630	20.0	19.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	1041322	20.0	19.1	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	85	3608500	20.0	22.0	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	87	1220060	20.0	20.2	
9 Dichlorodifluoromethane	85	1.379	1.379	0.000	85	1792207	20.0	19.8	
10 Chloromethane	50	1.521	1.521	0.000	89	1787298	20.0	18.3	
11 Vinyl chloride	62	1.628	1.616	0.012	83	1719779	20.0	18.5	
119 Butadiene	54	1.652	1.652	0.000	0	1592494	NC	NC	
12 Bromomethane	94	1.925	1.925	0.000	84	739335	20.0	19.2	
13 Chloroethane	64	2.019	2.008	0.011	95	906434	20.0	18.2	
14 Dichlorofluoromethane	67	2.197	2.197	0.000	83	2195642	20.0	19.1	
15 Trichlorofluoromethane	101	2.245	2.245	0.000	88	2026837	20.0	19.6	
16 Ethyl ether	59	2.494	2.494	0.000	90	851115	20.0	19.0	
17 Acrolein	56	2.612	2.612	0.000	91	147490	100.0	100.9	
18 1,1-Dichloroethene	96	2.707	2.707	0.000	90	1311720	20.0	19.1	
19 1,1,2-Trichloro-1,2,2-trif	151	2.719	2.719	0.000	86	1115829	20.0	19.0	
20 Acetone	43	2.755	2.755	0.000	95	525275	40.0	42.1	
22 Iodomethane	142	2.838	2.838	0.000	99	2048071	20.0	19.0	
23 Carbon disulfide	76	2.897	2.897	0.000	99	4169468	20.0	19.7	
25 3-Chloro-1-propene	76	3.027	3.027	0.000	90	771510	20.0	20.3	
26 Methyl acetate	43	3.051	3.051	0.000	97	2685791	100.0	91.4	
27 Methylene Chloride	84	3.134	3.134	0.000	88	1482673	20.0	20.2	
28 2-Methyl-2-propanol	59	3.241	3.229	0.012	72	385843	200.0	218.0	
29 Acrylonitrile	53	3.348	3.348	0.000	99	3169453	200.0	197.2	
30 Methyl tert-butyl ether	73	3.371	3.371	0.000	90	2649326	20.0	19.8	
31 trans-1,2-Dichloroethene	96	3.371	3.371	0.000	83	1420119	20.0	18.8	
32 Hexane	86	3.609	3.608	0.001	90	288525	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 1,1-Dichloroethane	63	3.739	3.739	0.000	85	2325361	20.0	19.1	
34 Vinyl acetate	43	3.786	3.786	0.000	97	761674	19.2	19.3	
38 2,2-Dichloropropane	77	4.237	4.237	0.000	62	1299455	20.0	20.3	
39 cis-1,2-Dichloroethene	96	4.237	4.237	0.000	70	1449026	20.0	18.9	
40 2-Butanone (MEK)	43	4.249	4.249	0.000	54	497757	40.0	38.5	
43 Chlorobromomethane	128	4.439	4.439	0.000	88	622635	20.0	19.1	
45 Tetrahydrofuran	42	4.474	4.474	0.000	86	307897	40.0	39.7	
46 Chloroform	83	4.510	4.510	0.000	68	2197815	20.0	19.0	
47 1,1,1-Trichloroethane	97	4.664	4.664	0.000	84	1823087	20.0	20.4	
48 Cyclohexane	56	4.711	4.711	0.000	87	2371047	20.0	19.8	
49 1,1-Dichloropropene	75	4.794	4.794	0.000	90	1467603	20.0	19.9	
50 Carbon tetrachloride	117	4.806	4.806	0.000	81	1572416	20.0	21.5	
51 Isobutyl alcohol	41	4.889	4.889	0.000	91	396615	500.0	541.9	
52 Benzene	78	4.972	4.972	0.000	93	4645634	20.0	19.5	
53 1,2-Dichloroethane	62	4.996	4.996	0.000	78	1238021	20.0	19.5	
55 n-Heptane	100	5.198	5.197	0.001	85	241333	20.0	21.1	
57 Trichloroethene	130	5.518	5.518	0.000	94	1067365	20.0	20.3	
59 Methylcyclohexane	83	5.684	5.684	0.000	88	2162404	20.0	20.1	
60 1,2-Dichloropropane	63	5.719	5.719	0.000	93	955582	20.0	19.7	
62 Dibromomethane	93	5.826	5.814	0.012	91	473542	20.0	19.9	
63 1,4-Dioxane	88	5.826	5.826	0.000	37	126522	400.0	353.0	
64 Dichlorobromomethane	83	5.957	5.956	0.001	94	1093680	20.0	21.7	
66 2-Chloroethyl vinyl ether	63	6.206	6.205	0.001	92	551242	40.0	39.9	
67 cis-1,3-Dichloropropene	75	6.336	6.336	0.000	91	905648	20.0	19.8	
68 4-Methyl-2-pentanone (MIBK)	43	6.466	6.478	-0.012	65	988009	40.0	40.9	
69 Toluene	91	6.632	6.632	0.000	95	4103285	20.0	21.5	
70 trans-1,3-Dichloropropene	75	6.834	6.834	0.000	81	617336	20.0	21.8	
71 Ethyl methacrylate	69	6.905	6.905	0.000	87	613178	20.0	22.7	
72 1,1,2-Trichloroethane	97	7.000	7.000	0.000	75	591821	20.0	20.9	
73 Tetrachloroethene	164	7.131	7.130	0.000	93	794104	20.0	21.5	
74 1,3-Dichloropropane	76	7.142	7.154	-0.012	91	1006039	20.0	20.6	
75 2-Hexanone	43	7.214	7.213	0.001	95	583413	40.0	40.7	
77 Chlorodibromomethane	129	7.356	7.356	0.000	88	601362	20.0	22.3	
79 Ethylene Dibromide	107	7.463	7.462	0.001	99	515377	20.0	21.3	
81 Chlorobenzene	112	7.913	7.913	0.000	95	2488789	20.0	20.7	
82 1,1,1,2-Tetrachloroethane	131	7.984	7.984	0.000	88	968637	20.0	23.9	
83 Ethylbenzene	106	8.008	8.008	0.000	98	1514603	20.0	21.6	
84 m-Xylene & p-Xylene	91	8.115	8.115	0.000	92	3787588	20.0	22.1	
85 o-Xylene	106	8.494	8.494	0.000	95	2017805	20.0	22.2	
86 Styrene	104	8.506	8.506	0.000	93	2682649	20.0	22.2	
87 Bromoform	173	8.684	8.684	0.000	94	320022	20.0	23.7	
88 Isopropylbenzene	105	8.838	8.838	0.000	95	5425947	20.0	22.9	
91 1,1,2,2-Tetrachloroethane	83	9.135	9.135	0.001	59	843113	20.0	21.1	
92 Bromobenzene	156	9.146	9.146	0.000	69	1086015	20.0	20.7	
93 1,2,3-Trichloropropane	110	9.170	9.170	0.000	34	262595	20.0	20.4	
94 trans-1,4-Dichloro-2-buten	53	9.182	9.182	0.000	2	114466	20.0	19.6	
95 N-Propylbenzene	120	9.241	9.241	0.000	96	1380070	20.0	22.2	
96 2-Chlorotoluene	126	9.324	9.324	0.000	96	1199078	20.0	21.5	
97 1,3,5-Trimethylbenzene	105	9.407	9.407	0.000	92	4533636	20.0	20.1	
98 4-Chlorotoluene	91	9.431	9.431	0.000	97	3869071	20.0	20.6	
99 tert-Butylbenzene	119	9.728	9.727	0.001	78	3539195	20.0	19.7	
101 1,2,4-Trimethylbenzene	105	9.775	9.775	0.000	69	4719636	20.0	22.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 sec-Butylbenzene	105	9.941	9.941	0.000	93	5338523	20.0	23.0	
103 1,3-Dichlorobenzene	146	10.048	10.048	0.000	89	2317861	20.0	20.0	
104 4-Isopropyltoluene	119	10.083	10.083	0.000	91	4758624	20.0	22.7	
105 1,4-Dichlorobenzene	146	10.143	10.142	0.001	91	2322834	20.0	19.8	
108 n-Butylbenzene	91	10.486	10.486	0.000	97	4065639	20.0	22.3	
109 1,2-Dichlorobenzene	146	10.510	10.510	0.000	98	2349441	20.0	20.2	
110 1,2-Dibromo-3-Chloropropan	157	11.281	11.281	0.000	88	137579	20.0	21.7	
112 1,2,4-Trichlorobenzene	180	12.099	12.099	0.000	93	1709705	20.0	21.3	
113 Hexachlorobutadiene	225	12.265	12.265	0.000	90	744219	20.0	21.0	
114 Naphthalene	128	12.336	12.336	0.000	97	3533484	20.0	20.5	
115 1,2,3-Trichlorobenzene	180	12.585	12.585	0.000	95	1492488	20.0	20.9	
S 130 1,2-Dichloroethene, Total	96				0		40.0	37.7	
S 131 1,3-Dichloropropene, Total	75				0		40.0	41.6	
S 132 Xylenes, Total	106				0		40.0	44.3	
S 133 Trihalomethanes, Total	1				0		80.0	86.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

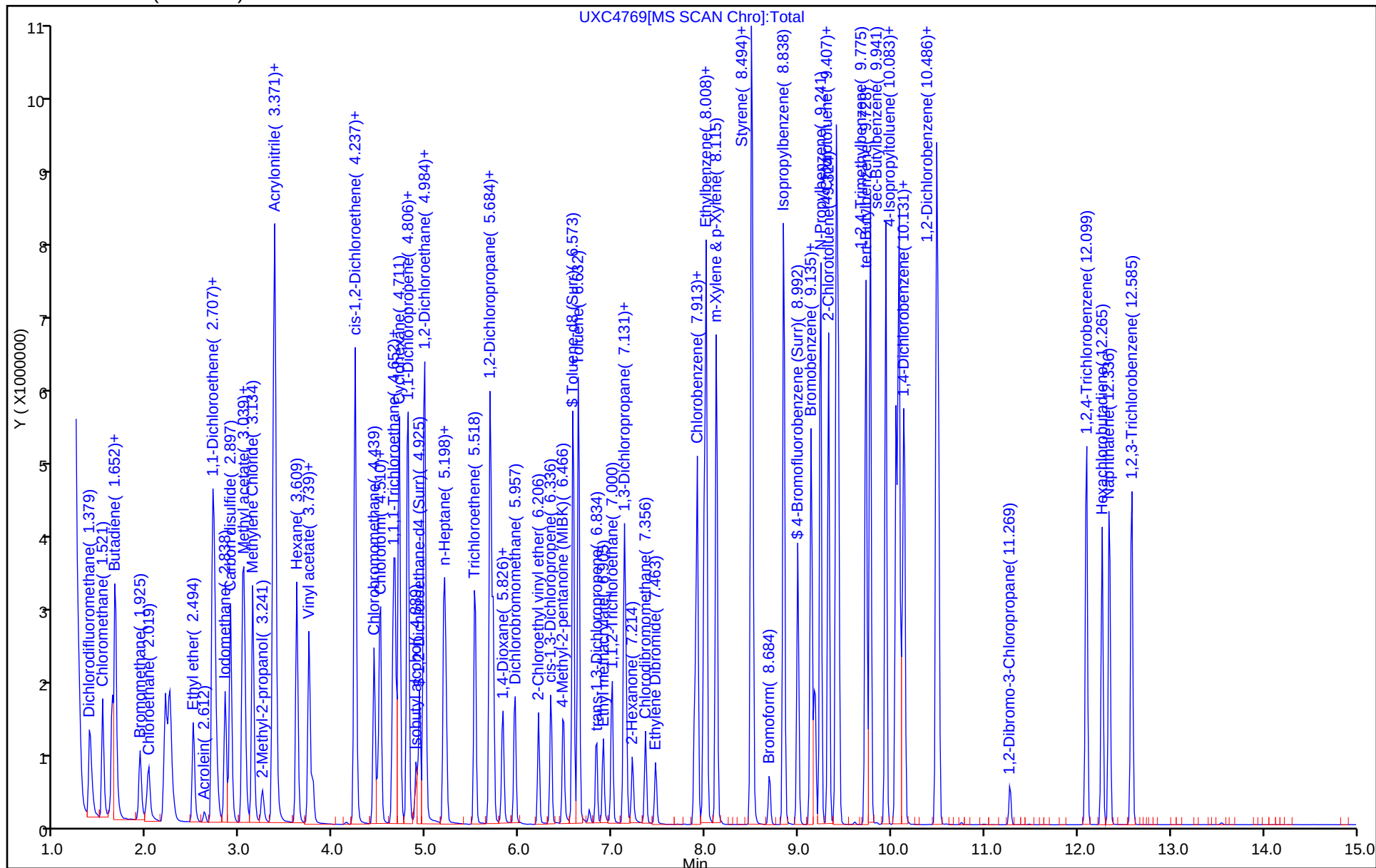
Reagents:

VMRGAS_00071	Amount Added: 16.00	Units: uL
vm50ss_stk_00061	Amount Added: 16.00	Units: uL
VMRPRIMW_00084	Amount Added: 16.00	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL
VMAROLISTDW_00068	Amount Added: 16.00	Units: uL

Data File:	\\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4769.D		
Injection Date:	02-Oct-2014 09:02:30	Instrument ID:	A3UX15
Lims ID:	STD8260 L5		
Client ID:			
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_15	Limit Group:	MSV 8260
Column:	DB-624 (0.18 mm)		

Operator ID: 43582
Worklist Smp#: 3

ALS Bottle#: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4770.D
 Lims ID: STD8260 L4
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 02-Oct-2014 09:24:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0035701-004
 Misc. Info.: C41002A-IC,8260LLUX15,,43582
 Operator ID: 43582 Instrument ID: A3UX15
 Sublist: chrom-8260_15*sub56
 Method: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\8260_15.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 02-Oct-2014 14:40:54 Calib Date: 02-Oct-2014 13:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: evansle

Date: 02-Oct-2014 09:43:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.209	5.209	0.000	99	1297045	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.889	7.889	0.000	85	823919	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	91	558008	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	93	503624	10.0	10.5	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	470695	10.0	10.1	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	93	1625932	10.0	11.1	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	89	593486	10.0	11.0	
9 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	819447	10.0	10.5	
10 Chloromethane	50	1.521	1.521	0.000	99	899404	10.0	10.7	
11 Vinyl chloride	62	1.616	1.616	0.000	98	846169	10.0	10.6	
119 Butadiene	54	1.652	1.652	0.000	0	768797	NC	NC	
12 Bromomethane	94	1.925	1.925	0.000	90	401322	10.0	10.9	
13 Chloroethane	64	2.008	2.008	0.000	99	460273	10.0	10.8	
14 Dichlorofluoromethane	67	2.197	2.197	0.000	97	1088633	10.0	11.0	
15 Trichlorofluoromethane	101	2.245	2.245	0.000	97	961557	10.0	10.8	
16 Ethyl ether	59	2.494	2.494	0.000	90	415626	10.0	10.8	
17 Acrolein	56	2.612	2.612	0.000	98	45179	50.0	48.1	
18 1,1-Dichloroethene	96	2.707	2.707	0.000	98	633248	10.0	10.7	
19 1,1,2-Trichloro-1,2,2-trif	151	2.719	2.719	0.000	94	535246	10.0	10.6	
20 Acetone	43	2.755	2.755	0.000	100	239288	20.0	22.3	
22 Iodomethane	142	2.838	2.838	0.000	99	998565	10.0	10.8	
23 Carbon disulfide	76	2.897	2.897	0.000	99	1930649	10.0	10.6	
25 3-Chloro-1-propene	76	3.027	3.027	0.000	92	356439	10.0	10.9	
26 Methyl acetate	43	3.051	3.051	0.000	97	1318244	50.0	52.2	
27 Methylene Chloride	84	3.134	3.134	0.000	92	771788	10.0	11.7	
28 2-Methyl-2-propanol	59	3.229	3.229	0.000	88	101612	100.0	76.2	
29 Acrylonitrile	53	3.348	3.348	0.000	98	1492315	100.0	108.1	
30 Methyl tert-butyl ether	73	3.371	3.371	0.000	96	1255921	10.0	10.9	
31 trans-1,2-Dichloroethene	96	3.371	3.371	0.000	93	699402	10.0	10.8	
32 Hexane	86	3.608	3.608	0.000	91	131582	10.0	10.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 1,1-Dichloroethane	63	3.739	3.739	0.000	96	1110489	10.0	10.6	
34 Vinyl acetate	43	3.786	3.786	0.000	97	325121	9.60	9.61	
38 2,2-Dichloropropane	77	4.237	4.237	0.000	62	588263	10.0	10.7	
39 cis-1,2-Dichloroethene	96	4.237	4.237	0.000	82	702126	10.0	10.7	
40 2-Butanone (MEK)	43	4.249	4.249	0.000	99	210566	20.0	19.0	
43 Chlorobromomethane	128	4.439	4.439	0.000	95	301149	10.0	10.7	
45 Tetrahydrofuran	42	4.474	4.474	0.000	87	143117	20.0	21.5	
46 Chloroform	83	4.510	4.510	0.000	93	1055661	10.0	10.6	
47 1,1,1-Trichloroethane	97	4.664	4.664	0.000	98	838536	10.0	10.9	
48 Cyclohexane	56	4.711	4.711	0.000	88	1095124	10.0	10.7	
49 1,1-Dichloropropene	75	4.794	4.794	0.000	96	658891	10.0	10.4	
50 Carbon tetrachloride	117	4.806	4.806	0.000	96	674640	10.0	10.7	
51 Isobutyl alcohol	41	4.889	4.889	0.000	95	158502	250.0	259.3	
52 Benzene	78	4.972	4.972	0.000	95	2108104	10.0	10.3	
53 1,2-Dichloroethane	62	4.996	4.996	0.000	98	548770	10.0	10.1	
55 n-Heptane	100	5.197	5.197	0.000	90	101382	10.0	10.3	
57 Trichloroethene	130	5.518	5.518	0.000	97	462830	10.0	10.2	
59 Methylcyclohexane	83	5.684	5.684	0.000	89	991442	10.0	10.7	
60 1,2-Dichloropropane	63	5.719	5.719	0.000	95	434283	10.0	10.4	
62 Dibromomethane	93	5.814	5.814	0.000	94	207867	10.0	10.2	
63 1,4-Dioxane	88	5.826	5.826	0.000	90	62700	200.0	205.8	M
64 Dichlorobromomethane	83	5.956	5.956	0.000	99	456244	10.0	10.5	
66 2-Chloroethyl vinyl ether	63	6.205	6.205	0.000	92	254995	20.0	21.5	
67 cis-1,3-Dichloropropene	75	6.336	6.336	0.000	96	368684	10.0	10.4	
68 4-Methyl-2-pentanone (MIBK)	43	6.478	6.478	0.000	96	438008	20.0	21.1	
69 Toluene	91	6.632	6.632	0.000	98	1860569	10.0	10.9	
70 trans-1,3-Dichloropropene	75	6.834	6.834	0.000	93	250254	10.0	10.1	
71 Ethyl methacrylate	69	6.905	6.905	0.000	88	268169	10.0	11.1	
72 1,1,2-Trichloroethane	97	7.000	7.000	0.000	90	278483	10.0	11.0	
73 Tetrachloroethene	164	7.130	7.130	0.000	99	359043	10.0	10.9	
74 1,3-Dichloropropane	76	7.154	7.154	0.000	89	462649	10.0	10.6	
75 2-Hexanone	43	7.213	7.213	0.000	95	281435	20.0	19.5	
77 Chlorodibromomethane	129	7.356	7.356	0.000	89	255303	10.0	10.8	
79 Ethylene Dibromide	107	7.462	7.462	0.000	98	246704	10.0	11.4	
81 Chlorobenzene	112	7.913	7.913	0.000	95	1137444	10.0	10.6	
82 1,1,1,2-Tetrachloroethane	131	7.984	7.984	0.000	91	418799	10.0	11.6	
83 Ethylbenzene	106	8.008	8.008	0.000	98	710222	10.0	11.3	
84 m-Xylene & p-Xylene	91	8.115	8.115	0.000	93	1709034	10.0	11.2	
85 o-Xylene	106	8.494	8.494	0.000	96	936753	10.0	11.5	
86 Styrene	104	8.506	8.506	0.000	93	1232989	10.0	11.4	
87 Bromoform	173	8.684	8.684	0.000	96	134265	10.0	11.1	
88 Isopropylbenzene	105	8.838	8.838	0.000	96	2460334	10.0	11.6	
91 1,1,2,2-Tetrachloroethane	83	9.135	9.135	0.000	96	398669	10.0	10.5	
92 Bromobenzene	156	9.146	9.146	0.000	92	519686	10.0	10.4	
93 1,2,3-Trichloropropane	110	9.170	9.170	0.000	84	130594	10.0	10.7	
94 trans-1,4-Dichloro-2-buten	53	9.182	9.182	0.000	66	48911	10.0	10.7	
95 N-Propylbenzene	120	9.241	9.241	0.000	99	656955	10.0	11.1	
96 2-Chlorotoluene	126	9.324	9.324	0.000	96	575545	10.0	10.8	
97 1,3,5-Trimethylbenzene	105	9.407	9.407	0.000	94	2078260	10.0	9.94	
98 4-Chlorotoluene	91	9.431	9.431	0.000	98	1904251	10.0	10.7	
99 tert-Butylbenzene	119	9.727	9.727	0.000	92	1524460	10.0	9.27	
101 1,2,4-Trimethylbenzene	105	9.775	9.775	0.000	96	2209996	10.0	11.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 sec-Butylbenzene	105	9.941	9.941	0.000	94	2422766	10.0	11.0	
103 1,3-Dichlorobenzene	146	10.048	10.048	0.000	97	1168532	10.0	10.6	
104 4-Isopropyltoluene	119	10.083	10.083	0.000	97	2205738	10.0	11.1	
105 1,4-Dichlorobenzene	146	10.142	10.142	0.000	95	1167551	10.0	10.5	
108 n-Butylbenzene	91	10.486	10.486	0.000	97	1893587	10.0	10.9	
109 1,2-Dichlorobenzene	146	10.510	10.510	0.000	98	1186053	10.0	10.7	
110 1,2-Dibromo-3-Chloropropan	157	11.281	11.281	0.000	94	62707	10.0	10.4	
112 1,2,4-Trichlorobenzene	180	12.099	12.099	0.000	94	822440	10.0	10.8	
113 Hexachlorobutadiene	225	12.265	12.265	0.000	97	347936	10.0	10.3	
114 Naphthalene	128	12.336	12.336	0.000	97	1662238	10.0	10.3	
115 1,2,3-Trichlorobenzene	180	12.585	12.585	0.000	96	734554	10.0	10.8	
S 130 1,2-Dichloroethene, Total	96				0		20.0	21.5	
S 131 1,3-Dichloropropene, Total	75				0		20.0	20.5	
S 132 Xylenes, Total	106				0		20.0	22.7	
S 133 Trihalomethanes, Total	1				0		40.0	43.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

VMRGAS_00071	Amount Added: 8.00	Units: uL
vm50ss_stk_00061	Amount Added: 8.00	Units: uL
VMRPRIMW_00084	Amount Added: 8.00	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL
VMAROLISTDW_00068	Amount Added: 8.00	Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4770.D

Injection Date: 02-Oct-2014 09:24:30

Instrument ID: A3UX15

Lims ID: STD8260 L4

Client ID:

Operator ID: 43582

Worklist Smp#: 4

Purge Vol: 5.000 mL

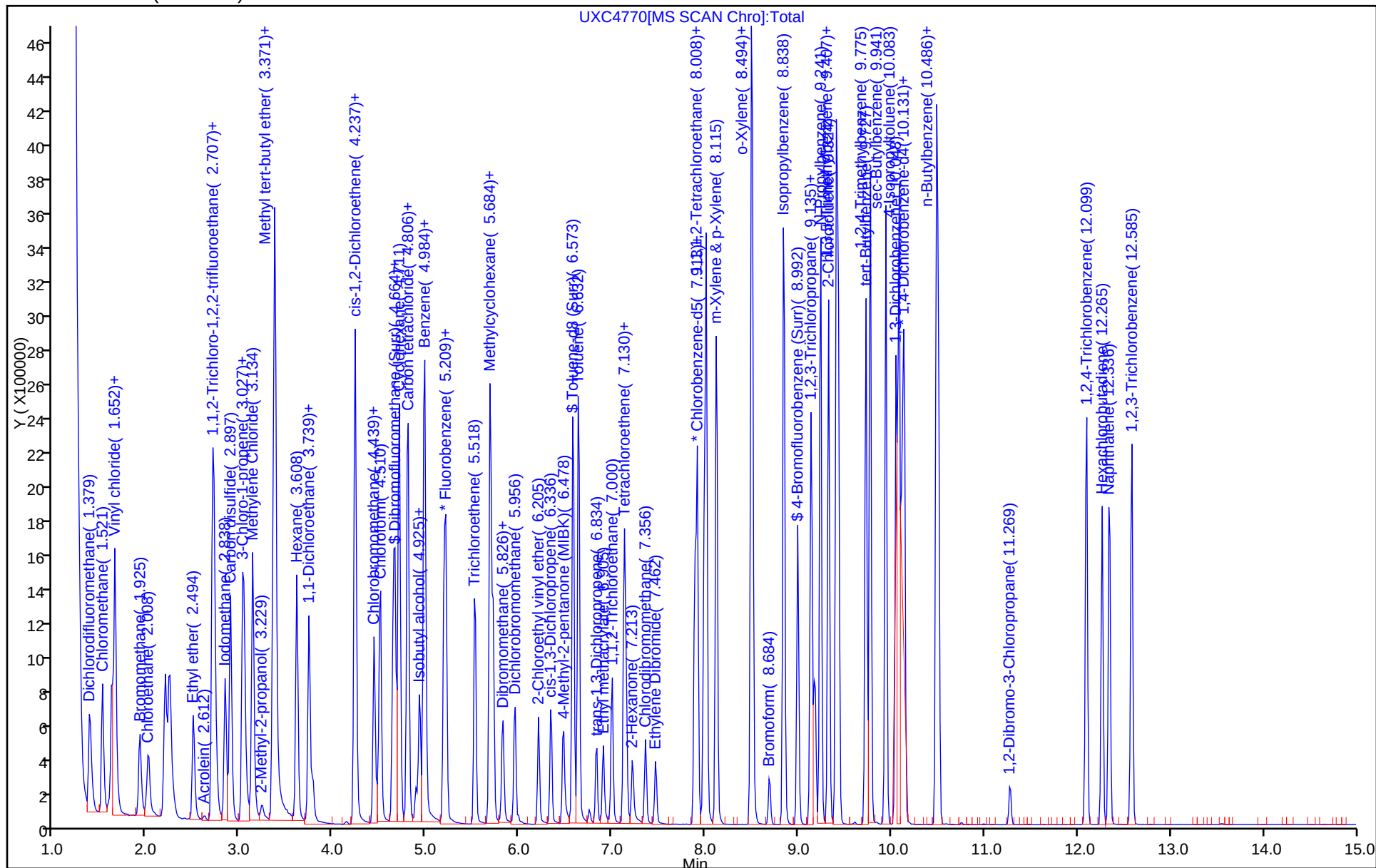
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260_15

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4770.D

Injection Date: 02-Oct-2014 09:24:30

Instrument ID: A3UX15

Lims ID: STD8260 L4

Client ID:

Operator ID: 43582

ALS Bottle#:

3

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_15

Limit Group: MSV 8260DOD ICAL

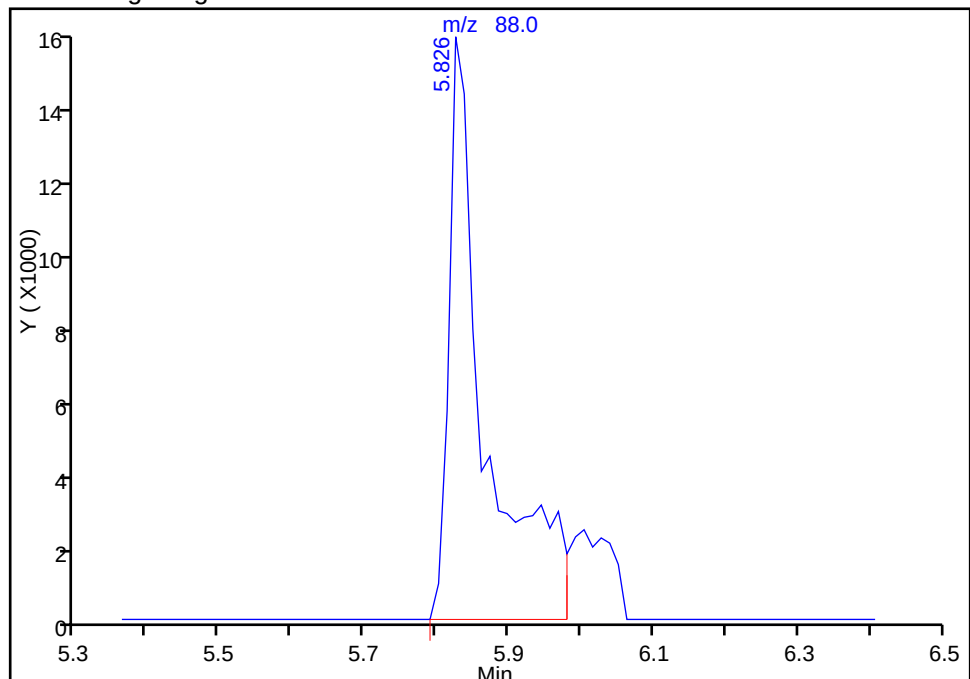
Column: DB-624 (0.18 mm)

Detector: MS SCAN

63 1,4-Dioxane, CAS: 123-91-1

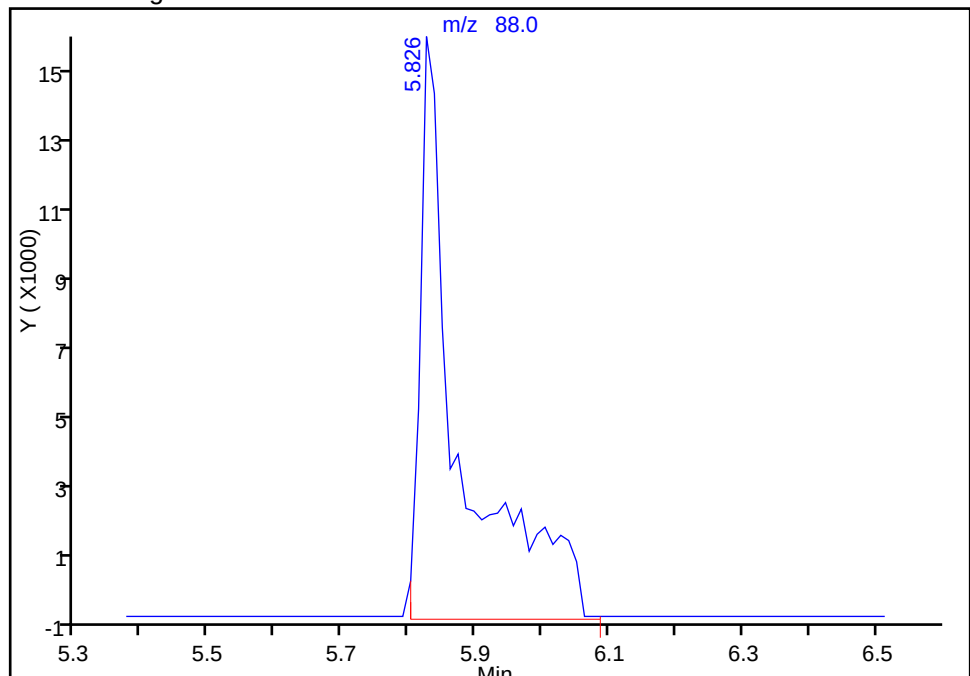
RT: 5.83
Response: 52899
Amount: 200.3961

Processing Integration Results



RT: 5.83
Response: 62700
Amount: 205.8228

Manual Integration Results



Reviewer: evansle, 02-Oct-2014 13:54:54

Audit Action: Manually Integrated

Audit Reason: Poor Chromatography

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4771.D
 Lims ID: STD8260 L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 02-Oct-2014 09:46:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0035701-005
 Misc. Info.: C41002A-IC,8260LLUX15,,43582
 Operator ID: 43582 Instrument ID: A3UX15
 Sublist: chrom-8260_15*sub56
 Method: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\8260_15.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 02-Oct-2014 14:40:55 Calib Date: 02-Oct-2014 13:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: evansle

Date: 02-Oct-2014 10:05:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.210	5.209	0.001	99	1292127	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.890	7.889	0.001	86	840426	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	93	586436	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	93	250305	5.00	5.23	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	235377	5.00	5.05	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	93	768669	5.00	5.15	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	88	290641	5.00	5.29	
9 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	414347	5.00	5.34	
10 Chloromethane	50	1.522	1.521	0.001	99	442284	5.00	5.29	
11 Vinyl chloride	62	1.616	1.616	0.000	98	422507	5.00	5.30	
119 Butadiene	54	1.652	1.652	0.000	0	398834	NC	NC	
12 Bromomethane	94	1.925	1.925	0.000	91	198423	5.00	5.02	
13 Chloroethane	64	2.008	2.008	0.000	99	239830	5.00	5.64	
14 Dichlorofluoromethane	67	2.197	2.197	0.000	97	540552	5.00	5.51	
15 Trichlorofluoromethane	101	2.245	2.245	0.000	97	474566	5.00	5.35	
16 Ethyl ether	59	2.494	2.494	0.000	89	201378	5.00	5.25	
17 Acrolein	56	2.613	2.612	0.001	96	19758	25.0	25.6	
18 1,1-Dichloroethene	96	2.707	2.707	0.000	98	312908	5.00	5.32	
19 1,1,2-Trichloro-1,2,2-trif	151	2.719	2.719	0.000	93	266020	5.00	5.29	
20 Acetone	43	2.755	2.755	0.000	100	105787	10.0	9.90	
22 Iodomethane	142	2.838	2.838	0.000	99	485239	5.00	5.25	
23 Carbon disulfide	76	2.897	2.897	0.000	99	931239	5.00	5.14	
25 3-Chloro-1-propene	76	3.028	3.027	0.001	92	168883	5.00	5.20	
26 Methyl acetate	43	3.039	3.051	-0.012	97	657494	25.0	26.1	
27 Methylene Chloride	84	3.134	3.134	0.000	92	413080	5.00	5.62	
28 2-Methyl-2-propanol	59	3.229	3.229	0.000	88	51390	50.0	45.2	
29 Acrylonitrile	53	3.348	3.348	0.000	99	740456	50.0	53.8	
30 Methyl tert-butyl ether	73	3.371	3.371	0.000	95	616401	5.00	5.37	
31 trans-1,2-Dichloroethene	96	3.371	3.371	0.000	91	343796	5.00	5.32	
32 Hexane	86	3.609	3.608	0.001	91	63021	5.00	5.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 1,1-Dichloroethane	63	3.739	3.739	0.000	97	556124	5.00	5.33	
34 Vinyl acetate	43	3.775	3.786	-0.011	97	166380	4.80	4.94	
38 2,2-Dichloropropane	77	4.237	4.237	0.000	62	276066	5.00	5.05	
39 cis-1,2-Dichloroethene	96	4.237	4.237	0.000	82	347947	5.00	5.31	
40 2-Butanone (MEK)	43	4.249	4.249	0.000	99	118460	10.0	10.7	
43 Chlorobromomethane	128	4.439	4.439	0.000	96	147805	5.00	5.29	
45 Tetrahydrofuran	42	4.474	4.474	0.000	90	65031	10.0	9.80	
46 Chloroform	83	4.510	4.510	0.000	93	512801	5.00	5.19	
47 1,1,1-Trichloroethane	97	4.664	4.664	0.000	98	390782	5.00	5.11	
48 Cyclohexane	56	4.711	4.711	0.000	89	539872	5.00	5.28	
49 1,1-Dichloropropene	75	4.794	4.794	0.000	97	319540	5.00	5.06	
50 Carbon tetrachloride	117	4.806	4.806	0.000	96	312228	5.00	4.99	
51 Isobutyl alcohol	41	4.889	4.889	0.000	92	55668	125.0	100.2	
52 Benzene	78	4.972	4.972	0.000	95	1025473	5.00	5.04	
53 1,2-Dichloroethane	62	4.996	4.996	0.000	98	265500	5.00	4.90	
55 n-Heptane	100	5.198	5.197	0.001	90	47665	5.00	4.87	
57 Trichloroethene	130	5.518	5.518	0.000	97	218962	5.00	4.86	
59 Methylcyclohexane	83	5.684	5.684	0.000	89	482763	5.00	5.25	
60 1,2-Dichloropropane	63	5.719	5.719	0.000	95	203076	5.00	4.89	
62 Dibromomethane	93	5.814	5.814	0.000	93	97498	5.00	4.79	
63 1,4-Dioxane	88	5.838	5.826	0.012	31	33912	100.0	114.1	
64 Dichlorobromomethane	83	5.957	5.956	0.001	99	206563	5.00	4.78	
66 2-Chloroethyl vinyl ether	63	6.206	6.205	0.001	92	119087	10.0	10.1	
67 cis-1,3-Dichloropropene	75	6.336	6.336	0.000	96	165413	5.00	5.03	
68 4-Methyl-2-pentanone (MIBK)	43	6.467	6.478	-0.011	97	217710	10.0	10.5	
69 Toluene	91	6.633	6.632	0.001	98	890578	5.00	5.13	
70 trans-1,3-Dichloropropene	75	6.834	6.834	0.000	92	115272	5.00	4.78	
71 Ethyl methacrylate	69	6.905	6.905	0.000	87	126327	5.00	5.14	
72 1,1,2-Trichloroethane	97	7.000	7.000	0.000	89	134994	5.00	5.23	
73 Tetrachloroethene	164	7.131	7.130	0.001	97	173010	5.00	5.15	
74 1,3-Dichloropropane	76	7.154	7.154	0.000	89	226569	5.00	5.10	
75 2-Hexanone	43	7.214	7.213	0.001	95	146542	10.0	9.71	
77 Chlorodibromomethane	129	7.356	7.356	0.000	88	110196	5.00	4.71	
79 Ethylene Dibromide	107	7.463	7.462	0.001	98	111412	5.00	5.05	
81 Chlorobenzene	112	7.913	7.913	0.000	96	557386	5.00	5.09	
82 1,1,1,2-Tetrachloroethane	131	7.984	7.984	0.000	90	182313	5.00	4.95	
83 Ethylbenzene	106	8.008	8.008	0.000	98	328151	5.00	5.14	
84 m-Xylene & p-Xylene	91	8.115	8.115	0.000	93	791712	5.00	5.07	
85 o-Xylene	106	8.494	8.494	0.000	97	436609	5.00	5.28	
86 Styrene	104	8.506	8.506	0.000	93	575836	5.00	5.24	
87 Bromoform	173	8.684	8.684	0.000	97	59328	5.00	4.83	
88 Isopropylbenzene	105	8.838	8.838	0.000	96	1101109	5.00	5.10	
91 1,1,2,2-Tetrachloroethane	83	9.135	9.135	0.001	96	194450	5.00	4.87	
92 Bromobenzene	156	9.147	9.146	0.001	91	255240	5.00	4.86	
93 1,2,3-Trichloropropane	110	9.170	9.170	0.000	85	65025	5.00	5.07	
94 trans-1,4-Dichloro-2-buten	53	9.182	9.182	0.000	73	21144	5.00	5.07	
95 N-Propylbenzene	120	9.241	9.241	0.000	99	296998	5.00	4.79	
96 2-Chlorotoluene	126	9.324	9.324	0.000	96	267604	5.00	4.80	
97 1,3,5-Trimethylbenzene	105	9.407	9.407	0.000	95	928739	5.00	4.50	
98 4-Chlorotoluene	91	9.431	9.431	0.000	98	900219	5.00	4.80	
99 tert-Butylbenzene	119	9.728	9.727	0.001	92	679792	5.00	4.28	
101 1,2,4-Trimethylbenzene	105	9.775	9.775	0.000	96	1005488	5.00	4.79	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 sec-Butylbenzene	105	9.941	9.941	0.000	94	1074998	5.00	4.63	
103 1,3-Dichlorobenzene	146	10.048	10.048	0.000	97	558930	5.00	4.84	
104 4-Isopropyltoluene	119	10.083	10.083	0.000	97	989932	5.00	4.73	
105 1,4-Dichlorobenzene	146	10.143	10.142	0.001	95	573051	5.00	4.89	
108 n-Butylbenzene	91	10.487	10.486	0.001	97	858576	5.00	4.71	
109 1,2-Dichlorobenzene	146	10.510	10.510	0.000	98	566310	5.00	4.87	
110 1,2-Dibromo-3-Chloropropan	157	11.281	11.281	0.000	85	31125	5.00	4.91	
112 1,2,4-Trichlorobenzene	180	12.099	12.099	0.000	93	377030	5.00	4.71	
113 Hexachlorobutadiene	225	12.265	12.265	0.000	98	165251	5.00	4.67	
114 Naphthalene	128	12.348	12.336	0.012	96	721099	5.00	4.51	
115 1,2,3-Trichlorobenzene	180	12.586	12.585	0.001	96	334694	5.00	4.70	
S 130 1,2-Dichloroethene, Total	96				0		10.0	10.6	
S 131 1,3-Dichloropropene, Total	75				0		10.0	9.81	
S 132 Xylenes, Total	106				0		10.0	10.3	
S 133 Trihalomethanes, Total	1				0		20.0	19.5	

QC Flag Legend

Processing Flags

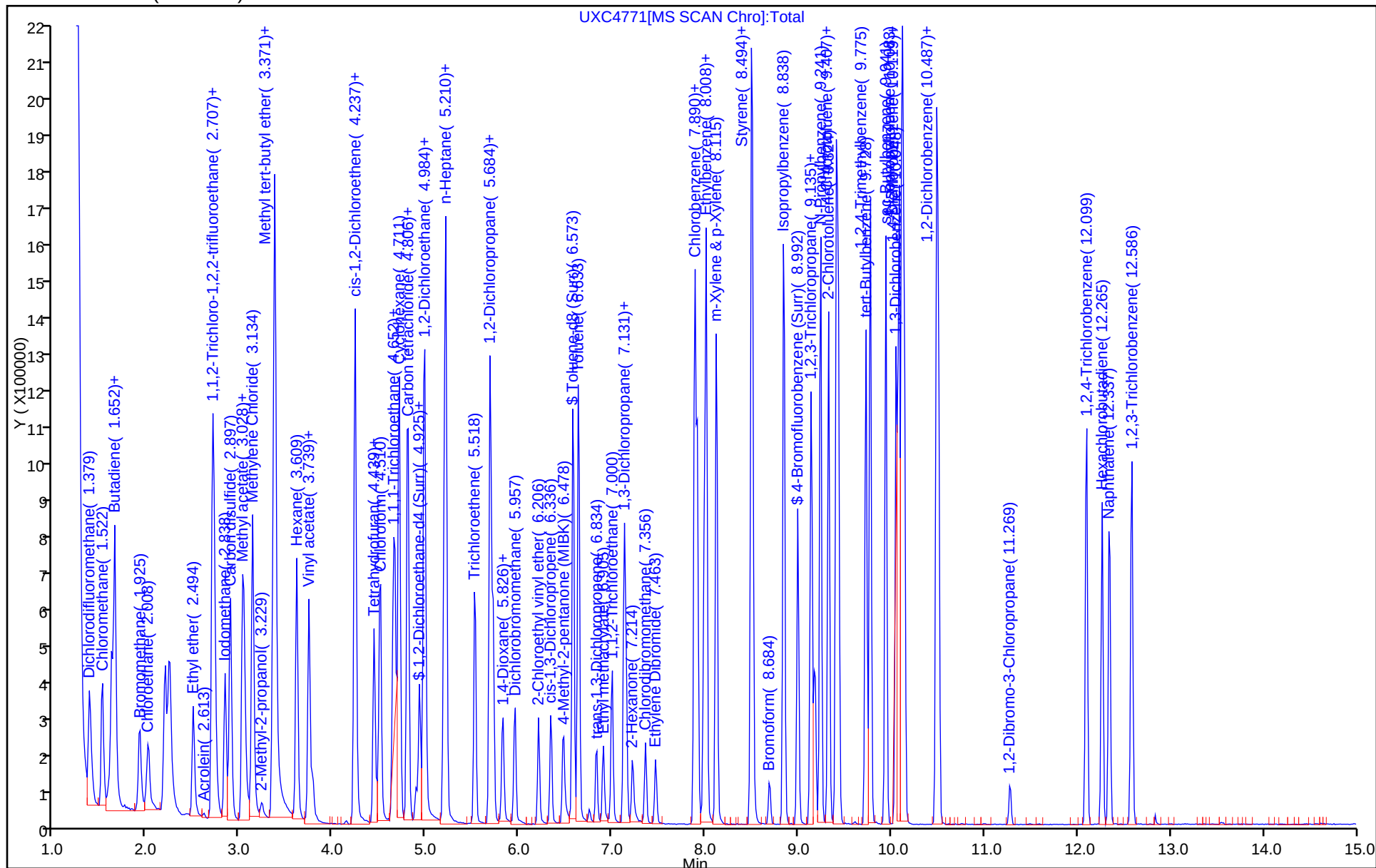
NC - Not Calibrated

Reagents:

VMRGAS_00071	Amount Added: 4.00	Units: uL
vm50ss_stk_00061	Amount Added: 4.00	Units: uL
VMRPRIMW_00084	Amount Added: 4.00	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL
VMAROLISTDW_00068	Amount Added: 4.00	Units: uL

Data File:	\\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4771.D		
Injection Date:	02-Oct-2014 09:46:30	Instrument ID:	A3UX15
Lims ID:	STD8260 L3		
Client ID:			
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_15	Limit Group:	MSV 8260
Column:	DB-624 (0.18 mm)		

Operator ID: 43582
Worklist Smp#: 5
ALS Bottle#: 4



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4772.D
 Lims ID: STD8260 L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 02-Oct-2014 10:09:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0035701-006
 Misc. Info.: C41002A-IC,8260LLUX15,,43582
 Operator ID: 43582 Instrument ID: A3UX15
 Sublist: chrom-8260_15*sub56
 Method: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\8260_15.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 02-Oct-2014 14:40:56 Calib Date: 02-Oct-2014 13:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: evansle

Date: 02-Oct-2014 10:31:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.209	5.209	0.000	99	1305386	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.889	7.889	0.000	85	834761	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	94	585242	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	92	97922	2.00	2.03	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	93445	2.00	1.98	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	93	281319	2.00	1.90	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	88	113861	2.00	2.09	
9 Dichlorodifluoromethane	85	1.391	1.379	0.012	100	155283	2.00	1.98	
10 Chloromethane	50	1.521	1.521	0.000	99	178149	2.00	2.11	
11 Vinyl chloride	62	1.628	1.616	0.012	99	167595	2.00	2.08	
119 Butadiene	54	1.664	1.652	0.012	0	156805	NC	NC	
12 Bromomethane	94	1.925	1.925	0.000	91	73181	2.00	1.75	
13 Chloroethane	64	2.019	2.008	0.011	99	87171	2.00	2.03	
14 Dichlorofluoromethane	67	2.197	2.197	0.000	97	197066	2.00	1.99	
15 Trichlorofluoromethane	101	2.245	2.245	0.000	98	183235	2.00	2.04	
16 Ethyl ether	59	2.494	2.494	0.000	89	85017	2.00	2.19	
17 Acrolein	56	2.612	2.612	0.000	86	4764	10.0	8.94	
18 1,1-Dichloroethene	96	2.707	2.707	0.000	98	125142	2.00	2.10	
19 1,1,2-Trichloro-1,2,2-trif	151	2.731	2.719	0.012	94	103152	2.00	2.03	
20 Acetone	43	2.755	2.755	0.000	100	40992	4.00	3.80	
22 Iodomethane	142	2.838	2.838	0.000	98	192964	2.00	2.07	
23 Carbon disulfide	76	2.897	2.897	0.000	99	365333	2.00	2.00	
25 3-Chloro-1-propene	76	3.027	3.027	0.000	91	63650	2.00	1.94	
26 Methyl acetate	43	3.051	3.051	0.000	97	271361	10.0	10.7	
27 Methylene Chloride	84	3.134	3.134	0.000	92	199336	2.00	1.94	
28 2-Methyl-2-propanol	59	3.241	3.229	0.012	81	20018	20.0	25.6	
29 Acrylonitrile	53	3.359	3.348	0.011	98	289333	20.0	20.8	
30 Methyl tert-butyl ether	73	3.371	3.371	0.000	95	234516	2.00	2.02	
31 trans-1,2-Dichloroethene	96	3.383	3.371	0.012	98	136803	2.00	2.09	
32 Hexane	86	3.608	3.608	0.000	94	25532	2.00	2.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 1,1-Dichloroethane	63	3.739	3.739	0.000	96	217324	2.00	2.06	
34 Vinyl acetate	43	3.786	3.786	0.000	97	58542	1.92	1.72	
38 2,2-Dichloropropane	77	4.237	4.237	0.000	61	109693	2.00	1.99	
39 cis-1,2-Dichloroethene	96	4.237	4.237	0.000	82	135636	2.00	2.05	
40 2-Butanone (MEK)	43	4.249	4.249	0.000	99	41084	4.00	3.68	
43 Chlorobromomethane	128	4.439	4.439	0.000	96	57730	2.00	2.05	
45 Tetrahydrofuran	42	4.486	4.474	0.012	92	29723	4.00	4.44	
46 Chloroform	83	4.510	4.510	0.000	92	203778	2.00	2.04	
47 1,1,1-Trichloroethane	97	4.664	4.664	0.000	98	149041	2.00	1.93	
48 Cyclohexane	56	4.711	4.711	0.000	89	209057	2.00	2.02	
49 1,1-Dichloropropene	75	4.806	4.794	0.012	96	125413	2.00	1.97	
50 Carbon tetrachloride	117	4.806	4.806	0.000	91	119804	2.00	1.89	
51 Isobutyl alcohol	41	4.889	4.889	0.000	92	21642	50.0	47.0	
52 Benzene	78	4.984	4.972	0.012	95	415412	2.00	2.02	
53 1,2-Dichloroethane	62	4.996	4.996	0.000	97	109229	2.00	1.99	
55 n-Heptane	100	5.198	5.197	0.001	85	19884	2.00	2.01	
57 Trichloroethene	130	5.530	5.518	0.012	97	85850	2.00	1.89	
59 Methylcyclohexane	83	5.684	5.684	0.000	90	185455	2.00	2.00	
60 1,2-Dichloropropane	63	5.719	5.719	0.000	93	81231	2.00	1.94	
62 Dibromomethane	93	5.826	5.814	0.012	97	41492	2.00	2.02	
63 1,4-Dioxane	88	5.826	5.826	0.000	29	12245	40.0	44.1	
64 Dichlorobromomethane	83	5.956	5.956	0.000	99	76992	2.00	1.76	
66 2-Chloroethyl vinyl ether	63	6.205	6.205	0.000	91	43256	4.00	3.62	
67 cis-1,3-Dichloropropene	75	6.336	6.336	0.000	94	57052	2.00	1.81	
68 4-Methyl-2-pentanone (MIBK)	43	6.478	6.478	0.000	97	79082	4.00	3.78	
69 Toluene	91	6.632	6.632	0.000	98	338382	2.00	1.96	
70 trans-1,3-Dichloropropene	75	6.834	6.834	0.000	92	38384	2.00	1.85	
71 Ethyl methacrylate	69	6.905	6.905	0.000	87	44525	2.00	1.83	
72 1,1,2-Trichloroethane	97	7.000	7.000	0.000	92	50635	2.00	1.98	
73 Tetrachloroethene	164	7.130	7.130	0.000	99	66215	2.00	1.98	
74 1,3-Dichloropropane	76	7.154	7.154	0.000	88	88444	2.00	2.00	
75 2-Hexanone	43	7.213	7.213	0.000	95	53992	4.00	3.88	
77 Chlorodibromomethane	129	7.356	7.356	0.000	89	37758	2.00	1.81	
79 Ethylene Dibromide	107	7.462	7.462	0.000	99	41342	2.00	1.89	
81 Chlorobenzene	112	7.913	7.913	0.000	94	221186	2.00	2.03	
82 1,1,1,2-Tetrachloroethane	131	7.984	7.984	0.000	89	64943	2.00	1.77	
83 Ethylbenzene	106	8.008	8.008	0.000	98	123616	2.00	1.95	
84 m-Xylene & p-Xylene	91	8.115	8.115	0.000	93	305306	2.00	1.97	
85 o-Xylene	106	8.494	8.494	0.000	96	155088	2.00	1.89	
86 Styrene	104	8.506	8.506	0.000	93	203949	2.00	1.87	
87 Bromoform	173	8.684	8.684	0.000	95	20702	2.00	1.70	
88 Isopropylbenzene	105	8.838	8.838	0.000	95	408692	2.00	1.90	
91 1,1,2,2-Tetrachloroethane	83	9.135	9.135	0.001	95	74971	2.00	1.88	
92 Bromobenzene	156	9.146	9.146	0.000	91	95505	2.00	1.82	
93 1,2,3-Trichloropropane	110	9.182	9.170	0.012	84	23551	2.00	1.84	
94 trans-1,4-Dichloro-2-buten	53	9.182	9.182	0.000	64	6767	2.00	1.79	
95 N-Propylbenzene	120	9.241	9.241	0.000	99	112106	2.00	1.81	
96 2-Chlorotoluene	126	9.324	9.324	0.000	96	101212	2.00	1.82	
97 1,3,5-Trimethylbenzene	105	9.407	9.407	0.000	93	332763	2.00	1.92	
98 4-Chlorotoluene	91	9.431	9.431	0.000	97	358281	2.00	1.91	
99 tert-Butylbenzene	119	9.727	9.727	0.000	92	241669	2.00	1.91	
101 1,2,4-Trimethylbenzene	105	9.775	9.775	0.000	96	372169	2.00	1.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 sec-Butylbenzene	105	9.941	9.941	0.000	94	398433	2.00	1.72	
103 1,3-Dichlorobenzene	146	10.048	10.048	0.000	97	227723	2.00	1.98	
104 4-Isopropyltoluene	119	10.083	10.083	0.000	97	363278	2.00	1.74	
105 1,4-Dichlorobenzene	146	10.143	10.142	0.001	96	235770	2.00	2.02	
108 n-Butylbenzene	91	10.486	10.486	0.000	97	327897	2.00	1.80	
109 1,2-Dichlorobenzene	146	10.510	10.510	0.000	98	224700	2.00	1.93	
110 1,2-Dibromo-3-Chloropropan	157	11.281	11.281	0.000	79	10224	2.00	1.62	
112 1,2,4-Trichlorobenzene	180	12.099	12.099	0.000	94	151916	2.00	1.90	
113 Hexachlorobutadiene	225	12.265	12.265	0.000	98	70745	2.00	2.00	
114 Naphthalene	128	12.336	12.336	0.000	96	263934	2.00	1.92	
115 1,2,3-Trichlorobenzene	180	12.585	12.585	0.000	97	146186	2.00	2.06	
S 130 1,2-Dichloroethene, Total	96				0		4.00	4.14	
S 131 1,3-Dichloropropene, Total	75				0		4.00	3.67	
S 132 Xylenes, Total	106				0		4.00	3.85	
S 133 Trihalomethanes, Total	1				0		8.00	7.31	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRGAS_00071	Amount Added: 1.60	Units: uL
vm50ss_stk_00061	Amount Added: 1.60	Units: uL
VMRPRIMW_00084	Amount Added: 1.60	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL
VMAROLISTDW_00068	Amount Added: 1.60	Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4772.D

Injection Date: 02-Oct-2014 10:09:30

Instrument ID: A3UX15

Lims ID: STD8260 L2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_15

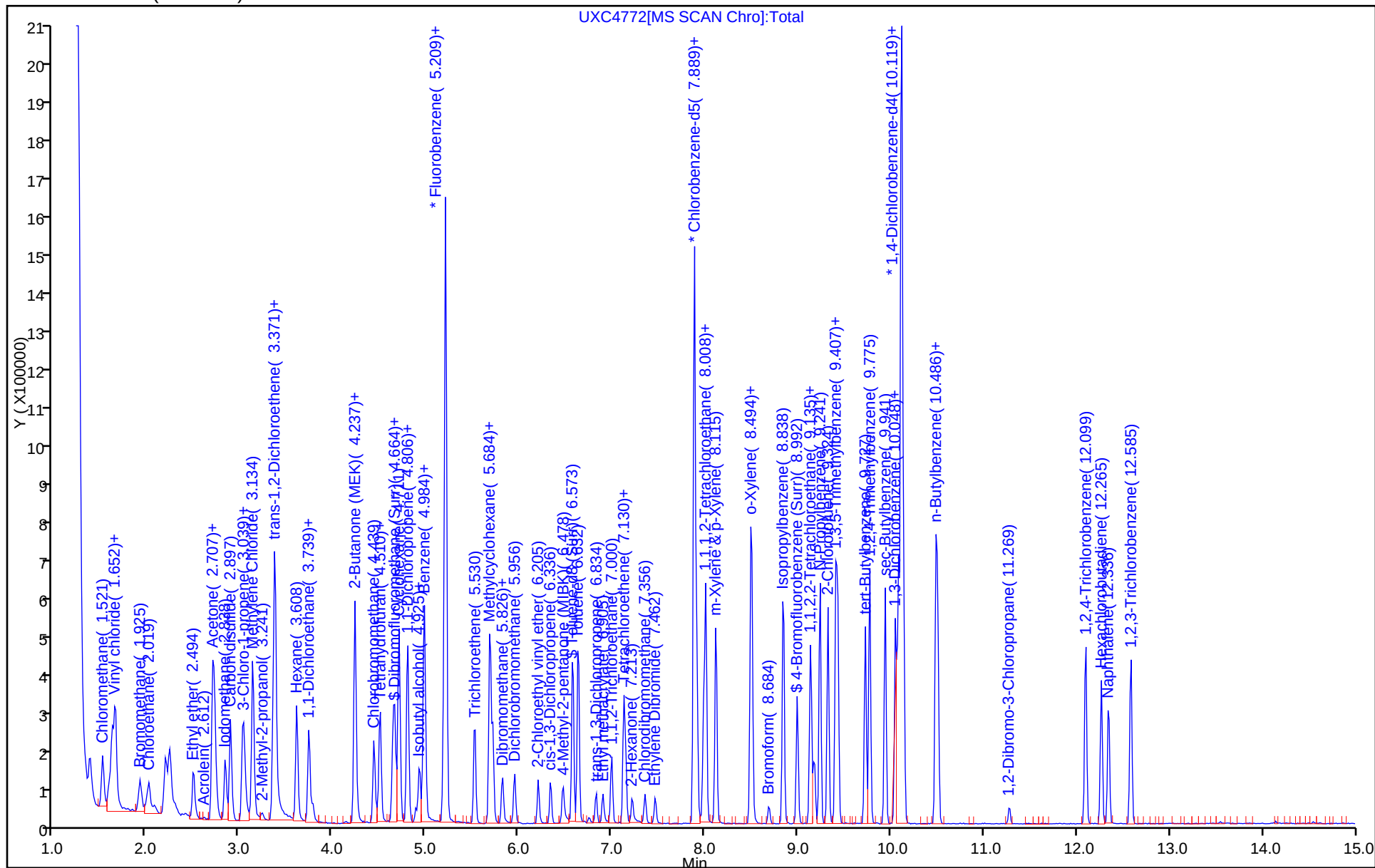
Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)

Operator ID: 43582

Worklist Smp#: 6

ALS Bottle#: 5



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4773.D
 Lims ID: STD8260 L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 02-Oct-2014 10:32:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0035701-007
 Misc. Info.: C41002A-IC,8260LLUX15,,43582
 Operator ID: 43582 Instrument ID: A3UX15
 Sublist: chrom-8260_15*sub56
 Method: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\8260_15.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 02-Oct-2014 14:40:57 Calib Date: 02-Oct-2014 13:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: evansle

Date: 02-Oct-2014 10:53:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.209	5.209	0.000	99	1315408	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.889	7.889	0.000	86	797162	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	94	556825	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	92	48645	1.00	1.00	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	52466	1.00	1.11	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	92	135445	1.00	0.9563	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	89	53853	1.00	1.03	
9 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	80914	1.00	1.02	
10 Chloromethane	50	1.521	1.521	0.000	99	96491	1.00	1.13	
11 Vinyl chloride	62	1.616	1.616	0.000	98	88425	1.00	1.09	
119 Butadiene	54	1.652	1.652	0.000	0	81049	NC	NC	
12 Bromomethane	94	1.925	1.925	-0.001	93	40458	1.00	0.9351	
13 Chloroethane	64	2.008	2.008	-0.001	100	48839	1.00	1.13	
14 Dichlorofluoromethane	67	2.197	2.197	0.000	98	104354	1.00	1.04	
15 Trichlorofluoromethane	101	2.245	2.245	0.000	97	95342	1.00	1.06	
16 Ethyl ether	59	2.494	2.494	0.000	90	38925	1.00	1.00	
17 Acrolein	56	2.612	2.612	0.000	27	3006	5.00	6.74	
18 1,1-Dichloroethene	96	2.707	2.707	0.000	97	59774	1.00	1.00	
19 1,1,2-Trichloro-1,2,2-trif	151	2.719	2.719	0.000	89	55126	1.00	1.08	
20 Acetone	43	2.755	2.755	0.000	99	18561	2.00	1.71	
22 Iodomethane	142	2.838	2.838	0.000	98	95710	1.00	1.02	
23 Carbon disulfide	76	2.897	2.897	0.000	99	182127	1.00	0.9879	
25 3-Chloro-1-propene	76	3.027	3.027	0.000	91	27833	1.00	0.8425	
26 Methyl acetate	43	3.051	3.051	0.000	98	141412	5.00	5.52	
27 Methylene Chloride	84	3.134	3.134	0.000	92	131876	1.00	0.7824	
28 2-Methyl-2-propanol	59	3.229	3.229	0.000	84	7529	10.0	17.9	
29 Acrylonitrile	53	3.359	3.348	0.011	98	130512	10.0	9.32	
30 Methyl tert-butyl ether	73	3.371	3.371	0.000	93	109131	1.00	0.9347	
31 trans-1,2-Dichloroethene	96	3.371	3.371	0.000	99	66939	1.00	1.02	
32 Hexane	86	3.608	3.608	0.000	91	12588	1.00	1.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 1,1-Dichloroethane	63	3.739	3.739	0.000	97	106421	1.00	1.00	
34 Vinyl acetate	43	3.786	3.786	0.000	97	35854	0.9600	1.04	
38 2,2-Dichloropropane	77	4.237	4.237	0.000	60	48129	1.00	0.8644	
39 cis-1,2-Dichloroethene	96	4.237	4.237	0.000	81	67556	1.00	1.01	
40 2-Butanone (MEK)	43	4.249	4.249	0.000	24	26541	2.00	2.36	
43 Chlorobromomethane	128	4.439	4.439	-0.001	93	28789	1.00	1.01	
45 Tetrahydrofuran	42	4.474	4.474	0.000	79	11920	2.00	1.77	
46 Chloroform	83	4.510	4.510	0.000	93	103990	1.00	1.03	
47 1,1,1-Trichloroethane	97	4.664	4.664	0.000	97	71568	1.00	0.9193	
48 Cyclohexane	56	4.711	4.711	0.000	89	100156	1.00	0.9620	
49 1,1-Dichloropropene	75	4.794	4.794	0.000	93	63825	1.00	0.99	
50 Carbon tetrachloride	117	4.806	4.806	0.000	87	55078	1.00	0.8638	
51 Isobutyl alcohol	41	4.889	4.889	0.000	93	10148	25.0	29.1	
52 Benzene	78	4.984	4.972	0.012	95	205669	1.00	0.99	
53 1,2-Dichloroethane	62	4.996	4.996	0.000	98	58859	1.00	1.07	
55 n-Heptane	100	5.197	5.197	0.000	86	9588	1.00	0.9615	
57 Trichloroethene	130	5.529	5.518	0.011	95	45796	1.00	1.00	
59 Methylcyclohexane	83	5.684	5.684	0.000	90	89231	1.00	0.9526	
60 1,2-Dichloropropane	63	5.719	5.719	0.000	94	42532	1.00	1.01	
62 Dibromomethane	93	5.826	5.814	0.012	96	20902	1.00	1.01	
63 1,4-Dioxane	88	5.838	5.826	0.012	28	3480	20.0	16.2	
64 Dichlorobromomethane	83	5.956	5.956	0.000	97	38317	1.00	0.8708	
66 2-Chloroethyl vinyl ether	63	6.205	6.205	0.000	95	20594	2.00	1.71	
67 cis-1,3-Dichloropropene	75	6.336	6.336	0.000	94	28856	1.00	0.9399	
68 4-Methyl-2-pentanone (MIBK)	43	6.478	6.478	0.000	95	39311	2.00	1.87	
69 Toluene	91	6.632	6.632	0.000	98	159572	1.00	0.9699	
70 trans-1,3-Dichloropropene	75	6.834	6.834	0.000	92	16788	1.00	1.06	
71 Ethyl methacrylate	69	6.905	6.905	0.000	89	22133	1.00	0.9502	
72 1,1,2-Trichloroethane	97	7.000	7.000	0.000	94	24845	1.00	1.02	
73 Tetrachloroethene	164	7.130	7.130	0.000	97	31679	1.00	0.99	
74 1,3-Dichloropropane	76	7.154	7.154	0.000	90	44906	1.00	1.07	
75 2-Hexanone	43	7.213	7.213	0.000	96	29581	2.00	2.47	
77 Chlorodibromomethane	129	7.356	7.356	0.000	93	17669	1.00	1.03	
79 Ethylene Dibromide	107	7.462	7.462	0.000	95	20692	1.00	0.9897	
81 Chlorobenzene	112	7.913	7.913	0.000	95	109199	1.00	1.05	
82 1,1,1,2-Tetrachloroethane	131	7.984	7.984	0.000	85	30279	1.00	0.8665	
83 Ethylbenzene	106	8.008	8.008	0.000	98	58378	1.00	0.9641	
84 m-Xylene & p-Xylene	91	8.115	8.115	0.000	92	138817	1.00	0.9366	
85 o-Xylene	106	8.494	8.494	0.000	97	72752	1.00	0.9268	
86 Styrene	104	8.506	8.506	0.000	94	95506	1.00	0.9166	
87 Bromoform	173	8.684	8.684	0.000	91	10662	1.00	0.9150	
88 Isopropylbenzene	105	8.838	8.838	0.000	96	179181	1.00	0.8743	
91 1,1,2,2-Tetrachloroethane	83	9.134	9.135	0.000	96	36888	1.00	0.9734	
92 Bromobenzene	156	9.146	9.146	0.000	91	49190	1.00	0.9870	
93 1,2,3-Trichloropropane	110	9.170	9.170	0.000	82	12064	1.00	0.99	
94 trans-1,4-Dichloro-2-buten	53	9.194	9.182	0.012	61	2423	1.00	0.6983	
95 N-Propylbenzene	120	9.241	9.241	0.000	99	47827	1.00	0.8123	
96 2-Chlorotoluene	126	9.324	9.324	0.000	97	47918	1.00	0.9047	
97 1,3,5-Trimethylbenzene	105	9.407	9.407	0.000	94	145385	1.00	1.13	
98 4-Chlorotoluene	91	9.431	9.431	0.000	97	167783	1.00	0.9417	
99 tert-Butylbenzene	119	9.727	9.727	0.000	92	110531	1.00	1.23	
101 1,2,4-Trimethylbenzene	105	9.775	9.775	0.000	97	158353	1.00	0.7937	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 sec-Butylbenzene	105	9.941	9.941	0.000	94	178131	1.00	0.8085	
103 1,3-Dichlorobenzene	146	10.048	10.048	0.000	97	107656	1.00	0.9820	
104 4-Isopropyltoluene	119	10.083	10.083	0.000	97	158863	1.00	0.7986	
105 1,4-Dichlorobenzene	146	10.142	10.142	0.000	94	111096	1.00	1.00	
108 n-Butylbenzene	91	10.486	10.486	0.000	96	149402	1.00	0.8629	
109 1,2-Dichlorobenzene	146	10.510	10.510	0.000	97	110075	1.00	1.00	
110 1,2-Dibromo-3-Chloropropan	157	11.281	11.281	0.000	79	5748	1.00	0.9552	
112 1,2,4-Trichlorobenzene	180	12.099	12.099	0.000	94	70106	1.00	0.9216	
113 Hexachlorobutadiene	225	12.265	12.265	0.000	98	33917	1.00	1.01	
114 Naphthalene	128	12.348	12.336	0.012	97	111616	1.00	1.09	
115 1,2,3-Trichlorobenzene	180	12.585	12.585	0.000	95	61143	1.00	0.9042	
S 130 1,2-Dichloroethene, Total	96				0		2.00	2.03	
S 131 1,3-Dichloropropene, Total	75				0		2.00	2.00	
S 132 Xylenes, Total	106				0		2.00	1.86	
S 133 Trihalomethanes, Total	1				0		4.00	3.85	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRGAS_00071	Amount Added: 0.80	Units: uL
vm50ss_stk_00061	Amount Added: 0.80	Units: uL
VMRPRIMW_00084	Amount Added: 0.80	Units: uL
VM50IS_00044	Amount Added: 1.00	Units: uL
VMAROLISTDW_00068	Amount Added: 0.80	Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4773.D

Injection Date: 02-Oct-2014 10:32:30

Instrument ID: A3UX15

Operator ID: 43582

Lims ID: STD8260 L1

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

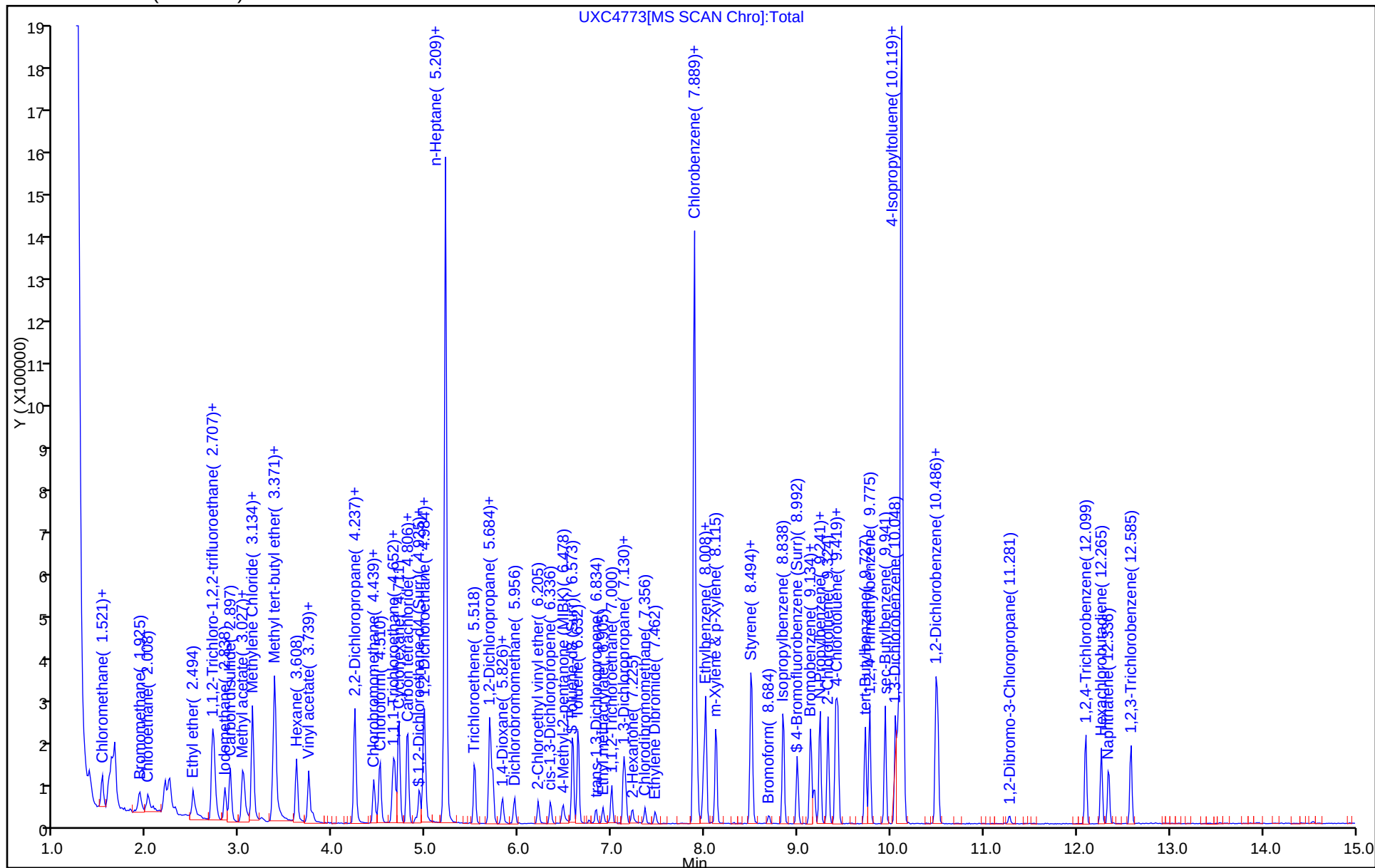
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260_15

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-68343-1

SDG No.: _____

Lab Sample ID: ICV 240-149718/14 Calibration Date: 10/02/2014 13:26

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/02/2014 10:32

Lab File ID: UXC4780.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.6004	0.4150	0.1000	0.00691	0.0100	-30.9*	20.0
Chloromethane	Ave	0.6469	0.5058	0.1000	0.00782	0.0100	-21.8*	20.0
Vinyl chloride	Ave	0.6165	0.5116	0.1000	0.00830	0.0100	-17.0	20.0
Bromomethane	Qua		0.2171	0.0500	0.00730	0.0100	-27.0*	20.0
Chloroethane	Ave	0.3291	0.2736	0.0500	0.00831	0.0100	-16.9	20.0
Dichlorofluoromethane	Ave	0.7598	0.6032		0.00794	0.0100	-20.6*	20.0
Trichlorofluoromethane	Ave	0.6867	0.5483	0.1000	0.00798	0.0100	-20.2*	20.0
Ethyl ether	Ave	0.2969	0.3332		0.0112	0.0100	12.2	20.0
Acrolein	Qua		0.0057		0.0411	0.0500	-17.9	20.0
1,1-Dichloroethene	Ave	0.4554	0.4378	0.1000	0.00961	0.0100	-3.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3890	0.3606	0.0500	0.00927	0.0100	-7.3	20.0
Acetone	Ave	0.0827	0.0773	0.0500	0.0187	0.0200	-6.6	20.0
Iodomethane	Ave	0.7149	0.7276		0.0102	0.0100	1.8	20.0
Carbon disulfide	Ave	1.401	1.358	0.1000	0.00969	0.0100	-3.1	20.0
3-Chloro-1-propene	Ave	0.2511	0.2360		0.00940	0.0100	-6.0	20.0
Methyl acetate	Ave	0.1946	0.1931	0.1000	0.0496	0.0500	-0.8	20.0
Methylene Chloride	Linl		0.5393	0.1000	0.0105	0.0100	4.6	20.0
2-Methyl-2-propanol	Qua		0.0077		0.0748	0.100	-25.2*	20.0
Acrylonitrile	Ave	0.1065	0.1104		0.104	0.100	3.7	20.0
Methyl tert-butyl ether	Ave	0.8876	0.8917	0.1000	0.0100	0.0100	0.5	20.0
trans-1,2-Dichloroethene	Ave	0.5006	0.5021	0.1000	0.0100	0.0100	0.3	20.0
Hexane	Ave	0.0962	0.0982		0.0102	0.0100	2.1	20.0
1,1-Dichloroethane	Ave	0.8068	0.8105	0.1000	0.0100	0.0100	0.4	20.0
Vinyl acetate	Ave	0.2609	0.2184		0.00670	0.00800	-16.3	20.0
2,2-Dichloropropane	Ave	0.4233	0.3425		0.00809	0.0100	-19.1	20.0
cis-1,2-Dichloroethene	Ave	0.5066	0.4973	0.1000	0.00982	0.0100	-1.8	20.0
2-Butanone (MEK)	Ave	0.0856	0.0843	0.0500	0.0197	0.0200	-1.5	20.0
Chlorobromomethane	Ave	0.2161	0.2207		0.0102	0.0100	2.1	20.0
Tetrahydrofuran	Ave	0.0513	0.0549		0.0214	0.0200	7.0	20.0
Chloroform	Ave	0.7649	0.7441	0.2000	0.00973	0.0100	-2.7	20.0
1,1,1-Trichloroethane	Ave	0.5918	0.5391	0.1000	0.00911	0.0100	-8.9	20.0
Cyclohexane	Ave	0.7915	0.7587	0.1000	0.00959	0.0100	-4.1	20.0
1,1-Dichloropropene	Ave	0.4889	0.5183		0.0106	0.0100	6.0	20.0
Carbon tetrachloride	Ave	0.4847	0.4503	0.1000	0.00929	0.0100	-7.1	20.0
Isobutyl alcohol	Linl		0.0053		0.280	0.250	11.8	20.0
Benzene	Ave	1.575	1.569	0.5000	0.00996	0.0100	-0.4	20.0
1,2-Dichloroethane	Ave	0.4196	0.4265	0.1000	0.0102	0.0100	1.6	20.0
n-Heptane	Ave	0.0758	0.0752		0.00992	0.0100	-0.8	20.0
Trichloroethene	Ave	0.3488	0.3591	0.2000	0.0103	0.0100	2.9	20.0
Methylcyclohexane	Ave	0.7121	0.6858	0.1000	0.00963	0.0100	-3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-68343-1

SDG No.: _____

Lab Sample ID: ICV 240-149718/14 Calibration Date: 10/02/2014 13:26

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/02/2014 10:32

Lab File ID: UXC4780.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3215	0.3192	0.1000	0.00993	0.0100	-0.7	20.0
Dibromomethane	Ave	0.1577	0.1695		0.0107	0.0100	7.5	20.0
1,4-Dioxane	Lin1		0.0018		0.154	0.200	-22.9*	20.0
Bromodichloromethane	Ave	0.3345	0.3395	0.1000	0.0102	0.0100	1.5	20.0
2-Chloroethyl vinyl ether	Ave	0.0915	0.1073		0.0141	0.0120	17.2	20.0
cis-1,3-Dichloropropene	Qua		0.2946	0.1500	0.0108	0.0100	7.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1601	0.1879	0.0500	0.0235	0.0200	17.4	20.0
Toluene	Ave	2.064	2.096	0.4000	0.0102	0.0100	1.6	20.0
trans-1,3-Dichloropropene	Lin1		0.3164	0.1000	0.0105	0.0100	5.1	20.0
Ethyl methacrylate	Ave	0.2922	0.3660		0.0125	0.0100	25.3*	20.0
1,1,2-Trichloroethane	Ave	0.3070	0.3258	0.1000	0.0106	0.0100	6.1	20.0
Tetrachloroethene	Ave	0.3998	0.4022	0.2000	0.0101	0.0100	0.6	20.0
1,3-Dichloropropane	Ave	0.5285	0.5597		0.0106	0.0100	5.9	20.0
2-Hexanone	Qua		0.1747	0.0500	0.0200	0.0200	-0.1	20.0
Dibromochloromethane	Lin1		0.2856		0.00994	0.0100	-0.6	20.0
1,2-Dibromoethane	Ave	0.2623	0.2882		0.0110	0.0100	9.9	20.0
Chlorobenzene	Ave	1.302	1.286	0.3000	0.00988	0.0100	-1.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4384	0.4099		0.00935	0.0100	-6.5	20.0
Ethylbenzene	Ave	0.7596	0.7600		0.0100	0.0100	0.0	20.0
m,p-Xylene	Ave	1.859	1.885		0.0101	0.0100	1.4	20.0
o-Xylene	Ave	0.9847	1.000		0.0102	0.0100	1.6	20.0
Styrene	Ave	1.307	1.426	0.3000	0.0109	0.0100	9.1	20.0
Bromoform	Ave	0.1462	0.1473	0.1000	0.0101	0.0100	0.8	20.0
Isopropylbenzene	Ave	2.571	2.638	0.1000	0.0103	0.0100	2.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6806	0.7130	0.3000	0.0105	0.0100	4.8	20.0
Bromobenzene	Ave	0.8951	0.8773		0.00980	0.0100	-2.0	20.0
1,2,3-Trichloropropane	Ave	0.2186	0.2393		0.0109	0.0100	9.4	20.0
trans-1,4-Dichloro-2-butene	Qua		0.1038		0.0122	0.0100	22.2*	20.0
N-Propylbenzene	Ave	1.057	1.047		0.00990	0.0100	-1.0	20.0
2-Chlorotoluene	Ave	0.9512	0.9297		0.00977	0.0100	-2.3	20.0
1,3,5-Trimethylbenzene	Lin1		3.331		0.00894	0.0100	-10.6	20.0
4-Chlorotoluene	Ave	3.200	3.129		0.00978	0.0100	-2.2	20.0
tert-Butylbenzene	Lin1		2.516		0.00859	0.0100	-14.1	20.0
1,2,4-Trimethylbenzene	Ave	3.583	3.505		0.00978	0.0100	-2.2	20.0
sec-Butylbenzene	Ave	3.957	3.783		0.00956	0.0100	-4.4	20.0
1,3-Dichlorobenzene	Ave	1.969	1.852	0.6000	0.00941	0.0100	-5.9	20.0
4-Isopropyltoluene	Ave	3.573	3.441		0.00963	0.0100	-3.7	20.0
1,4-Dichlorobenzene	Ave	1.997	1.906	0.5000	0.00955	0.0100	-4.5	20.0
n-Butylbenzene	Ave	3.110	2.882		0.00927	0.0100	-7.3	20.0
1,2-Dichlorobenzene	Ave	1.985	1.893	0.4000	0.00954	0.0100	-4.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1081	0.1029	0.0500	0.00952	0.0100	-4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-68343-1
 SDG No.: _____
 Lab Sample ID: ICV 240-149718/14 Calibration Date: 10/02/2014 13:26
 Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/02/2014 10:32
 Lab File ID: UXC4780.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.366	1.188	0.2000	0.00870	0.0100	-13.0	20.0
Hexachlorobutadiene	Ave	0.6032	0.4675		0.00775	0.0100	-22.5*	20.0
Naphthalene	Lin1		2.489		0.00871	0.0100	-12.9	20.0
1,2,3-Trichlorobenzene	Ave	1.214	1.033		0.00851	0.0100	-14.9	20.0
Dibromofluoromethane (Surr)	Ave	0.3702	0.2961		0.00712	0.00890	-20.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3609	0.2930		0.00723	0.00890	-18.8	20.0
Toluene-d8 (Surr)	Ave	1.777	1.507		0.00755	0.00890	-15.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6539	0.5687		0.00774	0.00890	-13.0	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4780.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 02-Oct-2014 13:26:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0035701-014
 Misc. Info.: C41002A-IC,8260LLUX15,,43582
 Operator ID: 43582 Instrument ID: A3UX15
 Sublist:
 Method: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\8260_15.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 02-Oct-2014 14:41:03 Calib Date: 02-Oct-2014 13:04:30
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: evansle

Date: 02-Oct-2014 13:50:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.209	5.209	0.000	98	1426351	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.889	7.890	-0.001	84	955073	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	88	623628	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	62	375875	8.90	7.12	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	371945	8.90	7.23	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	80	1280737	8.90	7.55	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	86	483418	8.90	7.74	
9 Dichlorodifluoromethane	85	1.391	1.379	0.012	86	591948	10.0	6.91	
10 Chloromethane	50	1.521	1.521	0.000	88	721427	10.0	7.82	
11 Vinyl chloride	62	1.628	1.616	0.012	83	729673	10.0	8.30	
119 Butadiene	54	1.664	1.652	0.012	0	678316	NC	NC	
12 Bromomethane	94	1.925	1.925	0.000	92	309719	10.0	7.30	
13 Chloroethane	64	2.020	2.008	0.011	87	390203	10.0	8.31	
14 Dichlorofluoromethane	67	2.197	2.197	0.000	83	860385	10.0	7.94	
15 Trichlorofluoromethane	101	2.245	2.245	0.000	88	782090	10.0	7.98	
16 Ethyl ether	59	2.494	2.494	0.000	90	475206	10.0	11.2	
17 Acrolein	56	2.624	2.612	0.012	79	40289	50.0	41.1	
18 1,1-Dichloroethene	96	2.707	2.707	0.000	90	624384	10.0	9.61	
19 1,1,2-Trichloro-1,2,2-trif	151	2.731	2.719	0.012	92	514401	10.0	9.27	
20 Acetone	43	2.755	2.755	0.000	75	220413	20.0	18.7	
22 Iodomethane	142	2.838	2.838	0.000	99	1037872	10.0	10.2	
23 Carbon disulfide	76	2.897	2.897	0.000	99	1936492	10.0	9.69	
25 3-Chloro-1-propene	76	3.027	3.027	0.000	90	336623	10.0	9.40	
26 Methyl acetate	43	3.051	3.051	0.000	97	1377322	50.0	49.6	
27 Methylene Chloride	84	3.134	3.134	0.000	81	769270	10.0	10.5	
28 2-Methyl-2-propanol	59	3.241	3.229	0.012	57	109264	100.0	74.8	
29 Acrylonitrile	53	3.360	3.348	0.012	99	1574061	100.0	103.7	
30 Methyl tert-butyl ether	73	3.371	3.371	0.000	88	1271916	10.0	10.0	
31 trans-1,2-Dichloroethene	96	3.383	3.371	0.012	89	716097	10.0	10.0	
32 Hexane	86	3.609	3.608	0.001	91	139993	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 1,1-Dichloroethane	63	3.739	3.739	0.000	85	1156012	10.0	10.0	
34 Vinyl acetate	43	3.786	3.786	0.000	96	249179	8.00	6.70	
38 2,2-Dichloropropane	77	4.237	4.237	0.000	56	488477	10.0	8.09	
39 cis-1,2-Dichloroethene	96	4.237	4.237	0.000	71	709356	10.0	9.82	
40 2-Butanone (MEK)	43	4.249	4.249	0.000	46	240568	20.0	19.7	
43 Chlorobromomethane	128	4.439	4.439	0.000	95	314794	10.0	10.2	
45 Tetrahydrofuran	42	4.474	4.474	0.000	88	156684	20.0	21.4	
46 Chloroform	83	4.510	4.510	0.000	70	1061363	10.0	9.73	
47 1,1,1-Trichloroethane	97	4.664	4.664	0.000	89	768963	10.0	9.11	
48 Cyclohexane	56	4.711	4.711	0.000	87	1082207	10.0	9.59	
49 1,1-Dichloropropene	75	4.806	4.794	0.012	91	739235	10.0	10.6	
50 Carbon tetrachloride	117	4.806	4.806	0.000	75	642292	10.0	9.29	
51 Isobutyl alcohol	41	4.889	4.889	0.000	93	188613	250.0	279.5	
52 Benzene	78	4.984	4.972	0.012	92	2237251	10.0	9.96	
53 1,2-Dichloroethane	62	4.996	4.996	0.000	66	608346	10.0	10.2	
55 n-Heptane	100	5.198	5.197	0.001	84	107254	10.0	9.92	
57 Trichloroethene	130	5.530	5.518	0.012	92	512194	10.0	10.3	
59 Methylcyclohexane	83	5.684	5.684	0.000	90	978207	10.0	9.63	
60 1,2-Dichloropropane	63	5.719	5.719	0.000	93	455349	10.0	9.93	
62 Dibromomethane	93	5.826	5.814	0.012	87	241760	10.0	10.7	
63 1,4-Dioxane	88	5.838	5.826	0.012	15	51216	200.0	154.2	M
64 Dichlorobromomethane	83	5.957	5.956	0.001	94	484287	10.0	10.2	
66 2-Chloroethyl vinyl ether	63	6.206	6.205	0.001	90	183621	12.0	14.1	
67 cis-1,3-Dichloropropene	75	6.336	6.336	0.000	91	420129	10.0	10.8	
68 4-Methyl-2-pentanone (MIBK)	43	6.478	6.478	0.000	90	536140	20.0	23.5	
69 Toluene	91	6.632	6.632	0.000	96	2002072	10.0	10.2	
70 trans-1,3-Dichloropropene	75	6.834	6.834	0.000	91	302135	10.0	10.5	
71 Ethyl methacrylate	69	6.905	6.905	0.000	87	349595	10.0	12.5	
72 1,1,2-Trichloroethane	97	7.000	7.000	0.000	84	311165	10.0	10.6	
73 Tetrachloroethene	164	7.131	7.130	0.001	93	384165	10.0	10.1	
74 1,3-Dichloropropane	76	7.154	7.154	0.000	87	534508	10.0	10.6	
75 2-Hexanone	43	7.214	7.213	0.001	93	333753	20.0	20.0	
77 Chlorodibromomethane	129	7.356	7.356	0.000	90	272805	10.0	9.94	
79 Ethylene Dibromide	107	7.463	7.462	0.001	98	275289	10.0	11.0	
81 Chlorobenzene	112	7.913	7.913	0.000	93	1228679	10.0	9.88	
82 1,1,1,2-Tetrachloroethane	131	7.984	7.984	0.000	85	391432	10.0	9.35	
83 Ethylbenzene	106	8.008	8.008	0.000	98	725872	10.0	10.0	
84 m-Xylene & p-Xylene	91	8.115	8.115	0.000	93	1800784	10.0	10.1	
85 o-Xylene	106	8.494	8.494	0.000	96	955520	10.0	10.2	
86 Styrene	104	8.506	8.506	0.000	92	1362083	10.0	10.9	
87 Bromoform	173	8.696	8.684	0.012	98	140697	10.0	10.1	
88 Isopropylbenzene	105	8.838	8.838	0.000	96	2519185	10.0	10.3	
91 1,1,2,2-Tetrachloroethane	83	9.135	9.135	0.001	63	444632	10.0	10.5	
92 Bromobenzene	156	9.146	9.146	0.000	87	547092	10.0	9.80	
93 1,2,3-Trichloropropane	110	9.182	9.170	0.012	49	149219	10.0	10.9	
94 trans-1,4-Dichloro-2-buten	53	9.182	9.182	0.000	2	64737	10.0	12.2	
95 N-Propylbenzene	120	9.241	9.241	0.000	97	653130	10.0	9.90	
96 2-Chlorotoluene	126	9.324	9.324	0.000	96	579803	10.0	9.77	
97 1,3,5-Trimethylbenzene	105	9.407	9.407	0.000	93	2077553	10.0	8.94	
98 4-Chlorotoluene	91	9.431	9.431	0.000	97	1951444	10.0	9.78	
99 tert-Butylbenzene	119	9.728	9.727	0.001	78	1569042	10.0	8.59	
101 1,2,4-Trimethylbenzene	105	9.775	9.775	0.000	72	2185830	10.0	9.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 sec-Butylbenzene	105	9.941	9.941	0.000	93	2359342	10.0	9.56	
103 1,3-Dichlorobenzene	146	10.048	10.048	0.000	85	1155065	10.0	9.41	
104 4-Isopropyltoluene	119	10.083	10.083	0.000	91	2146035	10.0	9.63	
105 1,4-Dichlorobenzene	146	10.143	10.142	0.001	95	1188735	10.0	9.55	
108 n-Butylbenzene	91	10.486	10.486	0.000	97	1797291	10.0	9.27	
109 1,2-Dichlorobenzene	146	10.510	10.510	0.000	98	1180372	10.0	9.54	
110 1,2-Dibromo-3-Chloropropan	157	11.281	11.281	0.000	80	64149	10.0	9.52	
112 1,2,4-Trichlorobenzene	180	12.099	12.099	0.000	93	740898	10.0	8.70	
113 Hexachlorobutadiene	225	12.265	12.265	0.000	91	291539	10.0	7.75	
114 Naphthalene	128	12.348	12.336	0.012	96	1551964	10.0	8.71	
115 1,2,3-Trichlorobenzene	180	12.585	12.585	0.000	94	644447	10.0	8.51	
S 132 Xylenes, Total	106				0		20.0	20.3	
S 133 Trihalomethanes, Total	1				0		40.0	39.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

VMFASPW_00054	Amount Added: 8.00	Units: uL	
VMFASAW_00051	Amount Added: 8.00	Units: uL	
VMFASGW_00057	Amount Added: 8.00	Units: uL	
vm50ss_stk_00061	Amount Added: 0.89	Units: uL	Run Reagent
VM50IS_00044	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00034	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4780.D

Injection Date: 02-Oct-2014 13:26:30

Instrument ID: A3UX15

Lims ID: ICV

Operator ID: 43582

Client ID:

Worklist Smp#: 14

Purge Vol: 5.000 mL

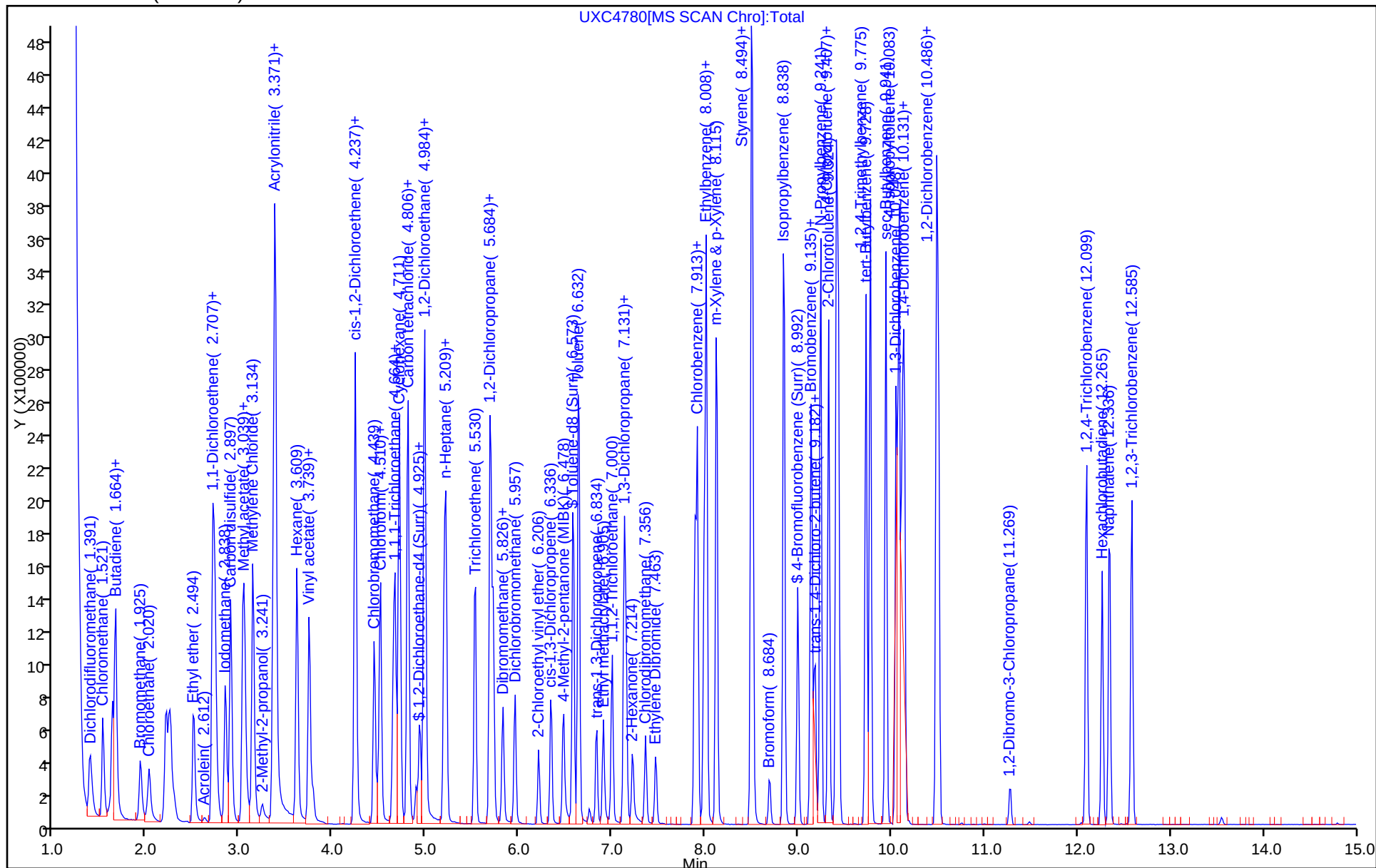
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8260_15

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4780.D

Injection Date: 02-Oct-2014 13:26:30

Instrument ID: A3UX15

Lims ID: ICV

Client ID:

Operator ID: 43582

ALS Bottle#:

13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_15

Limit Group: MSV 8260DOD ICAL

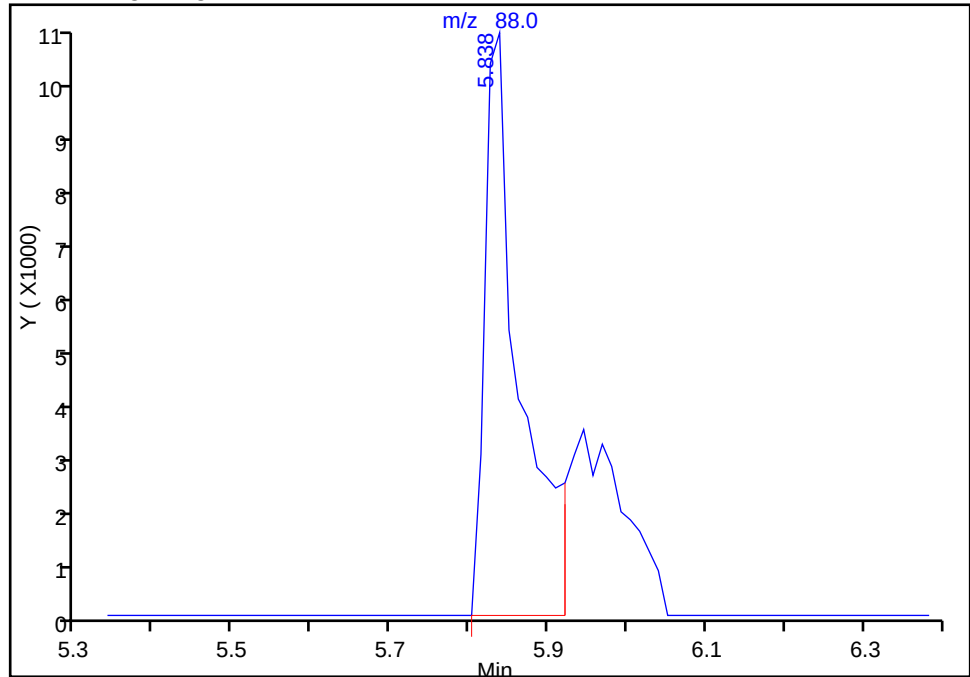
Column: DB-624 (0.18 mm)

Detector: MS SCAN

63 1,4-Dioxane, CAS: 123-91-1

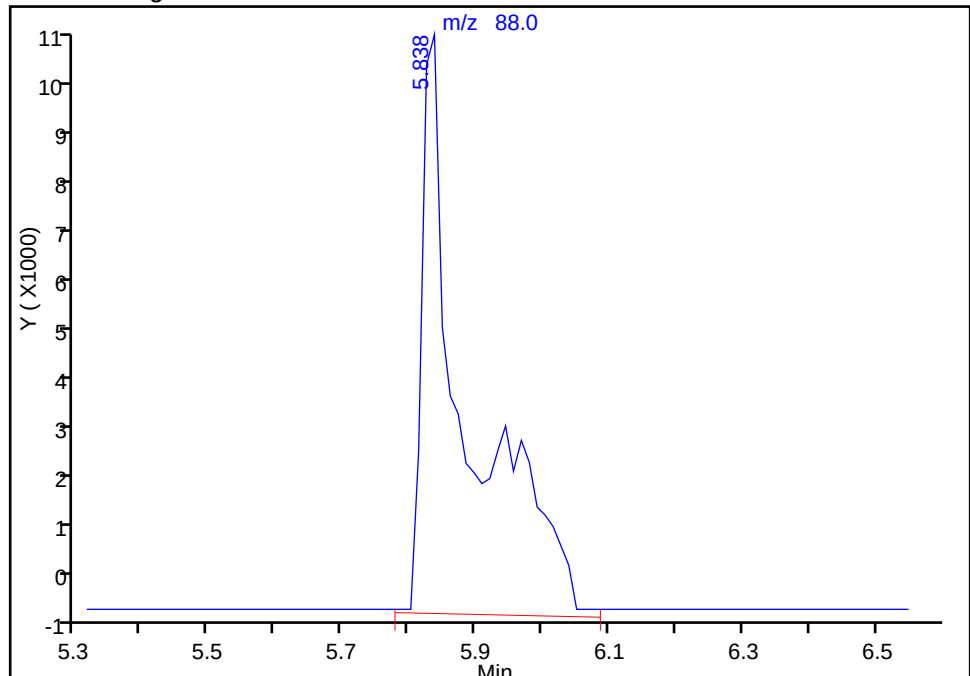
RT: 5.84
Response: 33436
Amount: 102.4982

Processing Integration Results



RT: 5.84
Response: 51216
Amount: 154.2263

Manual Integration Results



Reviewer: evansle, 02-Oct-2014 13:58:16

Audit Action: Manually Integrated

Audit Reason: Poor Chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-68343-1

SDG No.: _____

Lab Sample ID: CCVIS 240-150407/2 Calibration Date: 10/07/2014 10:13

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/02/2014 10:32

Lab File ID: UXC5009.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.6004	0.6833	0.1000	0.0114	0.0100	13.8	20.0
Chloromethane	Ave	0.6469	0.6259	0.1000	0.00968	0.0100	-3.2	20.0
Vinyl chloride	Ave	0.6165	0.6041	0.1000	0.00980	0.0100	-2.0	20.0
Bromomethane	Qua		0.2239	0.0500	0.00755	0.0100	-24.5*	20.0
Chloroethane	Ave	0.3291	0.2857	0.0500	0.00868	0.0100	-13.2	20.0
Dichlorofluoromethane	Ave	0.7598	0.7525		0.00990	0.0100	-1.0	20.0
Trichlorofluoromethane	Ave	0.6867	0.6765	0.1000	0.00985	0.0100	-1.5	20.0
Ethyl ether	Ave	0.2969	0.2863		0.00964	0.0100	-3.6	20.0
Acrolein	Qua		0.0199		0.102	0.0500	104.5*	20.0
1,1-Dichloroethene	Ave	0.4554	0.4851	0.1000	0.0107	0.0100	6.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3890	0.4075	0.0500	0.0105	0.0100	4.8	20.0
Acetone	Ave	0.0827	0.0810	0.0500	0.0196	0.0200	-2.1	20.0
Iodomethane	Ave	0.7149	0.7408		0.0104	0.0100	3.6	20.0
Carbon disulfide	Ave	1.401	1.475	0.1000	0.0105	0.0100	5.2	20.0
3-Chloro-1-propene	Ave	0.2511	0.2660		0.0106	0.0100	5.9	20.0
Methyl acetate	Ave	0.1946	0.1778	0.1000	0.0457	0.0500	-8.7	20.0
Methylene Chloride	Linl		0.5548	0.1000	0.0108	0.0100	8.1	20.0
2-Methyl-2-propanol	Qua		0.0145		0.130	0.100	29.9*	20.0
Acrylonitrile	Ave	0.1065	0.1122		0.105	0.100	5.4	20.0
Methyl tert-butyl ether	Ave	0.8876	0.9486	0.1000	0.0107	0.0100	6.9	20.0
trans-1,2-Dichloroethene	Ave	0.5006	0.5227	0.1000	0.0104	0.0100	4.4	20.0
Hexane	Ave	0.0962	0.0977		0.0102	0.0100	1.6	20.0
1,1-Dichloroethane	Ave	0.8068	0.8133	0.1000	0.0101	0.0100	0.8	20.0
Vinyl acetate	Ave	0.2609	0.2456		0.00904	0.00960	-5.9	20.0
2,2-Dichloropropane	Ave	0.4233	0.4415		0.0104	0.0100	4.3	20.0
cis-1,2-Dichloroethene	Ave	0.5066	0.5336	0.1000	0.0105	0.0100	5.3	20.0
2-Butanone (MEK)	Ave	0.0856	0.0807	0.0500	0.0188	0.0200	-5.8	20.0
Chlorobromomethane	Ave	0.2161	0.2241		0.0104	0.0100	3.7	20.0
Tetrahydrofuran	Ave	0.0513	0.0498		0.0194	0.0200	-3.0	20.0
Chloroform	Ave	0.7649	0.7897	0.2000	0.0103	0.0100	3.2	20.0
1,1,1-Trichloroethane	Ave	0.5918	0.6376	0.1000	0.0108	0.0100	7.7	20.0
Cyclohexane	Ave	0.7915	0.7922	0.1000	0.0100	0.0100	0.0	20.0
1,1-Dichloropropene	Ave	0.4889	0.4983		0.0102	0.0100	1.9	20.0
Carbon tetrachloride	Ave	0.4847	0.5429	0.1000	0.0112	0.0100	12.0	20.0
Isobutyl alcohol	Linl		0.0062		0.323	0.250	29.2*	20.0
Benzene	Ave	1.575	1.608	0.5000	0.0102	0.0100	2.1	20.0
1,2-Dichloroethane	Ave	0.4196	0.4404	0.1000	0.0105	0.0100	5.0	20.0
n-Heptane	Ave	0.0758	0.0776		0.0102	0.0100	2.4	20.0
Trichloroethene	Ave	0.3488	0.3671	0.2000	0.0105	0.0100	5.2	20.0
Methylcyclohexane	Ave	0.7121	0.7435	0.1000	0.0104	0.0100	4.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-68343-1

SDG No.: _____

Lab Sample ID: CCVIS 240-150407/2 Calibration Date: 10/07/2014 10:13

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/02/2014 10:32

Lab File ID: UXC5009.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.3215	0.3268	0.1000	0.0102	0.0100	1.7	20.0
Dibromomethane	Ave	0.1577	0.1721		0.0109	0.0100	9.1	20.0
1,4-Dioxane	Lin1		0.0030		0.257	0.200	28.7*	20.0
Bromodichloromethane	Ave	0.3345	0.3802	0.1000	0.0114	0.0100	13.7	20.0
2-Chloroethyl vinyl ether	Ave	0.0915	0.0981		0.0215	0.0200	7.3	20.0
cis-1,3-Dichloropropene	Qua		0.2972	0.1500	0.0108	0.0100	8.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1601	0.1678	0.0500	0.0210	0.0200	4.8	20.0
Toluene	Ave	2.064	2.227	0.4000	0.0108	0.0100	7.9	20.0
trans-1,3-Dichloropropene	Lin1		0.3061	0.1000	0.0102	0.0100	1.9	20.0
Ethyl methacrylate	Ave	0.2922	0.3207		0.0110	0.0100	9.7	20.0
1,1,2-Trichloroethane	Ave	0.3070	0.3406	0.1000	0.0111	0.0100	10.9	20.0
Tetrachloroethene	Ave	0.3998	0.4482	0.2000	0.0112	0.0100	12.1	20.0
1,3-Dichloropropane	Ave	0.5285	0.5727		0.0108	0.0100	8.3	20.0
2-Hexanone	Qua		0.1502	0.0500	0.0170	0.0200	-15.2	20.0
Dibromochloromethane	Lin1		0.3142		0.0109	0.0100	9.1	20.0
1,2-Dibromoethane	Ave	0.2623	0.2826		0.0108	0.0100	7.7	20.0
Chlorobenzene	Ave	1.302	1.407	0.3000	0.0108	0.0100	8.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4384	0.5060		0.0115	0.0100	15.4	20.0
Ethylbenzene	Ave	0.7596	0.8143		0.0107	0.0100	7.2	20.0
m,p-Xylene	Ave	1.859	2.050		0.0110	0.0100	10.2	20.0
o-Xylene	Ave	0.9847	1.081		0.0110	0.0100	9.8	20.0
Styrene	Ave	1.307	1.477	0.3000	0.0113	0.0100	13.0	20.0
Bromoform	Ave	0.1462	0.1686	0.1000	0.0115	0.0100	15.3	20.0
Isopropylbenzene	Ave	2.571	2.871	0.1000	0.0112	0.0100	11.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6806	0.7321	0.3000	0.0108	0.0100	7.6	20.0
Bromobenzene	Ave	0.8951	0.9593		0.0107	0.0100	7.2	20.0
1,2,3-Trichloropropane	Ave	0.2186	0.2423		0.0111	0.0100	10.8	20.0
trans-1,4-Dichloro-2-butene	Qua		0.1045		0.0123	0.0100	22.8*	20.0
N-Propylbenzene	Ave	1.057	1.168		0.0110	0.0100	10.5	20.0
2-Chlorotoluene	Ave	0.9512	1.031		0.0108	0.0100	8.4	20.0
1,3,5-Trimethylbenzene	Lin1		3.862		0.0103	0.0100	2.9	20.0
4-Chlorotoluene	Ave	3.200	3.425		0.0107	0.0100	7.0	20.0
tert-Butylbenzene	Lin1		2.805		0.00951	0.0100	-4.9	20.0
1,2,4-Trimethylbenzene	Ave	3.583	4.037		0.0113	0.0100	12.7	20.0
sec-Butylbenzene	Ave	3.957	4.348		0.0110	0.0100	9.9	20.0
1,3-Dichlorobenzene	Ave	1.969	2.044	0.6000	0.0104	0.0100	3.8	20.0
4-Isopropyltoluene	Ave	3.573	3.984		0.0112	0.0100	11.5	20.0
1,4-Dichlorobenzene	Ave	1.997	2.051	0.5000	0.0103	0.0100	2.7	20.0
n-Butylbenzene	Ave	3.110	3.318		0.0107	0.0100	6.7	20.0
1,2-Dichlorobenzene	Ave	1.985	2.117	0.4000	0.0107	0.0100	6.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1081	0.1146	0.0500	0.0106	0.0100	6.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 480-68343-1
 SDG No.: _____
 Lab Sample ID: CCVIS 240-150407/2 Calibration Date: 10/07/2014 10:13
 Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 10/02/2014 10:32
 Lab File ID: UXC5009.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trichlorobenzene	Ave	1.366	1.525	0.2000	0.0112	0.0100	11.6	20.0
Hexachlorobutadiene	Ave	0.6032	0.6383		0.0106	0.0100	5.8	20.0
Naphthalene	Lin1		3.044		0.0106	0.0100	5.6	20.0
1,2,3-Trichlorobenzene	Ave	1.214	1.413		0.0116	0.0100	16.4	20.0
Dibromofluoromethane (Surr)	Ave	0.3702	0.3342		0.00804	0.00890	-9.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3609	0.3223		0.00795	0.00890	-10.7	20.0
Toluene-d8 (Surr)	Ave	1.777	1.702		0.00853	0.00890	-4.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6539	0.6194		0.00843	0.00890	-5.3	20.0

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\UXC5009.D

Lims ID: CCVIS L4 8260

Client ID:

Sample Type: CCVIS

Inject. Date: 07-Oct-2014 10:13:30

ALS Bottle#: 1

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Sample Info: 240-0035882-002

Misc. Info.: C41007A,8260LLUX15,,43582

Operator ID: 43582

Instrument ID: A3UX15

Sublist: chrom-8260_15*sub56

Method: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\8260_15.m

Limit Group: MSV 8260DOD ICAL

Last Update: 08-Oct-2014 08:15:14

Calib Date: 02-Oct-2014 13:04:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D

Column 1 : DB-624 (0.18 mm)

Det: MS SCAN

Process Host: XAWRK020

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.209	5.209	0.000	99	919871	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.889	7.889	0.000	84	606632	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	90	386898	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	94	273629	8.90	8.04	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	263864	8.90	7.95	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	93	918850	8.90	8.53	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	89	334421	8.90	8.43	
9 Dichlorodifluoromethane	85	1.379	1.379	0.000	99	628562	10.0	11.4	
10 Chloromethane	50	1.521	1.521	0.000	99	575735	10.0	9.68	
11 Vinyl chloride	62	1.616	1.616	0.000	98	555697	10.0	9.80	
119 Butadiene	54	1.652	1.652	0.000	0	488408	NC	NC	
12 Bromomethane	94	1.925	1.925	0.000	91	205922	10.0	7.55	
13 Chloroethane	64	2.008	2.008	0.000	99	262807	10.0	8.68	
14 Dichlorofluoromethane	67	2.197	2.197	0.000	97	692230	10.0	9.90	
15 Trichlorofluoromethane	101	2.245	2.245	0.000	98	622308	10.0	9.85	
16 Ethyl ether	59	2.494	2.494	0.000	88	263364	10.0	9.64	
17 Acrolein	56	2.612	2.612	0.000	99	91693	50.0	102.2	
18 1,1-Dichloroethene	96	2.707	2.707	0.000	98	446238	10.0	10.7	
19 1,1,2-Trichloro-1,2,2-trif	151	2.719	2.719	0.000	92	374837	10.0	10.5	
20 Acetone	43	2.755	2.755	0.000	100	148963	20.0	19.6	
22 Iodomethane	142	2.838	2.838	0.000	100	681474	10.0	10.4	
23 Carbon disulfide	76	2.897	2.897	0.000	99	1356462	10.0	10.5	
25 3-Chloro-1-propene	76	3.027	3.027	0.000	91	244693	10.0	10.6	
26 Methyl acetate	43	3.051	3.051	0.000	97	817586	50.0	45.7	
27 Methylene Chloride	84	3.134	3.134	0.000	89	510375	10.0	10.8	
28 2-Methyl-2-propanol	59	3.241	3.241	0.000	89	133663	100.0	129.9	
29 Acrylonitrile	53	3.359	3.359	0.000	99	1032360	100.0	105.4	
30 Methyl tert-butyl ether	73	3.371	3.371	0.000	96	872570	10.0	10.7	
31 trans-1,2-Dichloroethene	96	3.371	3.371	0.000	90	480814	10.0	10.4	
32 Hexane	86	3.608	3.608	0.000	89	89907	10.0	10.2	
33 1,1-Dichloroethane	63	3.739	3.739	0.000	96	748114	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Vinyl acetate	43	3.786	3.786	0.000	97	216887	9.60	9.04	
38 2,2-Dichloropropane	77	4.237	4.237	0.000	63	406127	10.0	10.4	
39 cis-1,2-Dichloroethene	96	4.237	4.237	0.000	81	490856	10.0	10.5	
40 2-Butanone (MEK)	43	4.249	4.249	0.000	99	148390	20.0	18.8	
43 Chlorobromomethane	128	4.439	4.439	0.000	92	206115	10.0	10.4	
45 Tetrahydrofuran	42	4.474	4.474	0.000	85	91605	20.0	19.4	
46 Chloroform	83	4.510	4.510	0.000	93	726443	10.0	10.3	
47 1,1,1-Trichloroethane	97	4.664	4.664	0.000	98	586524	10.0	10.8	
48 Cyclohexane	56	4.711	4.711	0.000	87	728703	10.0	10.0	
49 1,1-Dichloropropene	75	4.794	4.794	0.000	96	458326	10.0	10.2	
50 Carbon tetrachloride	117	4.806	4.806	0.000	96	499375	10.0	11.2	
51 Isobutyl alcohol	41	4.889	4.889	0.000	92	141520	250.0	323.0	
52 Benzene	78	4.972	4.972	0.000	95	1478965	10.0	10.2	
53 1,2-Dichloroethane	62	4.996	4.996	0.000	98	405096	10.0	10.5	
55 n-Heptane	100	5.186	5.186	0.000	88	71418	10.0	10.2	
57 Trichloroethene	130	5.518	5.518	0.000	98	337636	10.0	10.5	
59 Methylcyclohexane	83	5.684	5.684	0.000	88	683882	10.0	10.4	
60 1,2-Dichloropropane	63	5.719	5.719	0.000	94	300641	10.0	10.2	
62 Dibromomethane	93	5.814	5.814	0.000	93	158264	10.0	10.9	
63 1,4-Dioxane	88	5.838	5.838	0.000	89	55911	200.0	257.4	
64 Dichlorobromomethane	83	5.956	5.956	0.000	99	349717	10.0	11.4	
66 2-Chloroethyl vinyl ether	63	6.205	6.205	0.000	91	180550	20.0	21.5	
67 cis-1,3-Dichloropropene	75	6.336	6.336	0.000	96	273388	10.0	10.8	
68 4-Methyl-2-pentanone (MIBK)	43	6.466	6.466	0.000	95	308611	20.0	21.0	
69 Toluene	91	6.632	6.632	0.000	98	1350726	10.0	10.8	
70 trans-1,3-Dichloropropene	75	6.834	6.834	0.000	91	185703	10.0	10.2	
71 Ethyl methacrylate	69	6.905	6.905	0.000	87	194541	10.0	11.0	
72 1,1,2-Trichloroethane	97	7.000	7.000	0.000	90	206625	10.0	11.1	
73 Tetrachloroethene	164	7.130	7.130	0.000	98	271898	10.0	11.2	
74 1,3-Dichloropropane	76	7.142	7.142	0.000	88	347393	10.0	10.8	
75 2-Hexanone	43	7.213	7.213	0.000	94	182278	20.0	17.0	
77 Chlorodibromomethane	129	7.356	7.356	0.000	90	190629	10.0	10.9	
79 Ethylene Dibromide	107	7.463	7.463	0.000	99	171429	10.0	10.8	
81 Chlorobenzene	112	7.913	7.913	0.000	96	853634	10.0	10.8	
82 1,1,1,2-Tetrachloroethane	131	7.984	7.984	0.000	90	306964	10.0	11.5	
83 Ethylbenzene	106	8.008	8.008	0.000	98	493986	10.0	10.7	
84 m-Xylene & p-Xylene	91	8.115	8.115	0.000	92	1243290	10.0	11.0	
85 o-Xylene	106	8.494	8.494	0.000	96	655651	10.0	11.0	
86 Styrene	104	8.506	8.506	0.000	93	896272	10.0	11.3	
87 Bromoform	173	8.684	8.684	0.000	97	102248	10.0	11.5	
88 Isopropylbenzene	105	8.838	8.838	0.000	96	1741633	10.0	11.2	
91 1,1,2,2-Tetrachloroethane	83	9.135	9.135	0.000	96	283255	10.0	10.8	
92 Bromobenzene	156	9.146	9.146	0.000	93	371154	10.0	10.7	
93 1,2,3-Trichloropropane	110	9.170	9.170	0.000	83	93743	10.0	11.1	
94 trans-1,4-Dichloro-2-buten	53	9.182	9.182	0.000	65	40418	10.0	12.3	
95 N-Propylbenzene	120	9.241	9.241	0.000	99	451862	10.0	11.0	
96 2-Chlorotoluene	126	9.324	9.324	0.000	96	398920	10.0	10.8	
97 1,3,5-Trimethylbenzene	105	9.407	9.407	0.000	94	1494049	10.0	10.3	
98 4-Chlorotoluene	91	9.431	9.431	0.000	97	1324974	10.0	10.7	
99 tert-Butylbenzene	119	9.727	9.727	0.000	92	1085356	10.0	9.51	
101 1,2,4-Trimethylbenzene	105	9.775	9.775	0.000	96	1561892	10.0	11.3	
102 sec-Butylbenzene	105	9.941	9.941	0.000	94	1682176	10.0	11.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.048	10.048	0.000	97	790843	10.0	10.4	
104 4-Isopropyltoluene	119	10.083	10.083	0.000	96	1541369	10.0	11.2	
105 1,4-Dichlorobenzene	146	10.143	10.143	0.000	96	793611	10.0	10.3	
108 n-Butylbenzene	91	10.486	10.486	0.000	98	1283681	10.0	10.7	
109 1,2-Dichlorobenzene	146	10.510	10.510	0.000	99	818988	10.0	10.7	
110 1,2-Dibromo-3-Chloropropan	157	11.281	11.281	0.000	84	44340	10.0	10.6	
112 1,2,4-Trichlorobenzene	180	12.099	12.099	0.000	94	589882	10.0	11.2	
113 Hexachlorobutadiene	225	12.265	12.265	0.000	98	246963	10.0	10.6	
114 Naphthalene	128	12.348	12.348	0.000	97	1177626	10.0	10.6	
115 1,2,3-Trichlorobenzene	180	12.585	12.585	0.000	96	546866	10.0	11.6	
S 130 1,2-Dichloroethene, Total	96				0		20.0	21.0	
S 131 1,3-Dichloropropene, Total	75				0		20.0	21.0	
S 132 Xylenes, Total	106				0		20.0	22.0	
S 133 Trihalomethanes, Total	1				0		40.0	44.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMAROLISTDW_00068	Amount Added: 8.00	Units: uL	
VMRGAS_00072	Amount Added: 8.00	Units: uL	
VMRPRIMW_00085	Amount Added: 8.00	Units: uL	
vm50ss_stk_00060	Amount Added: 0.89	Units: uL	Run Reagent
VM50IS_00044	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00028	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\UXC5009.D

Injection Date: 07-Oct-2014 10:13:30

Instrument ID: A3UX15

Lims ID: CCVIS L4 8260

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260_15

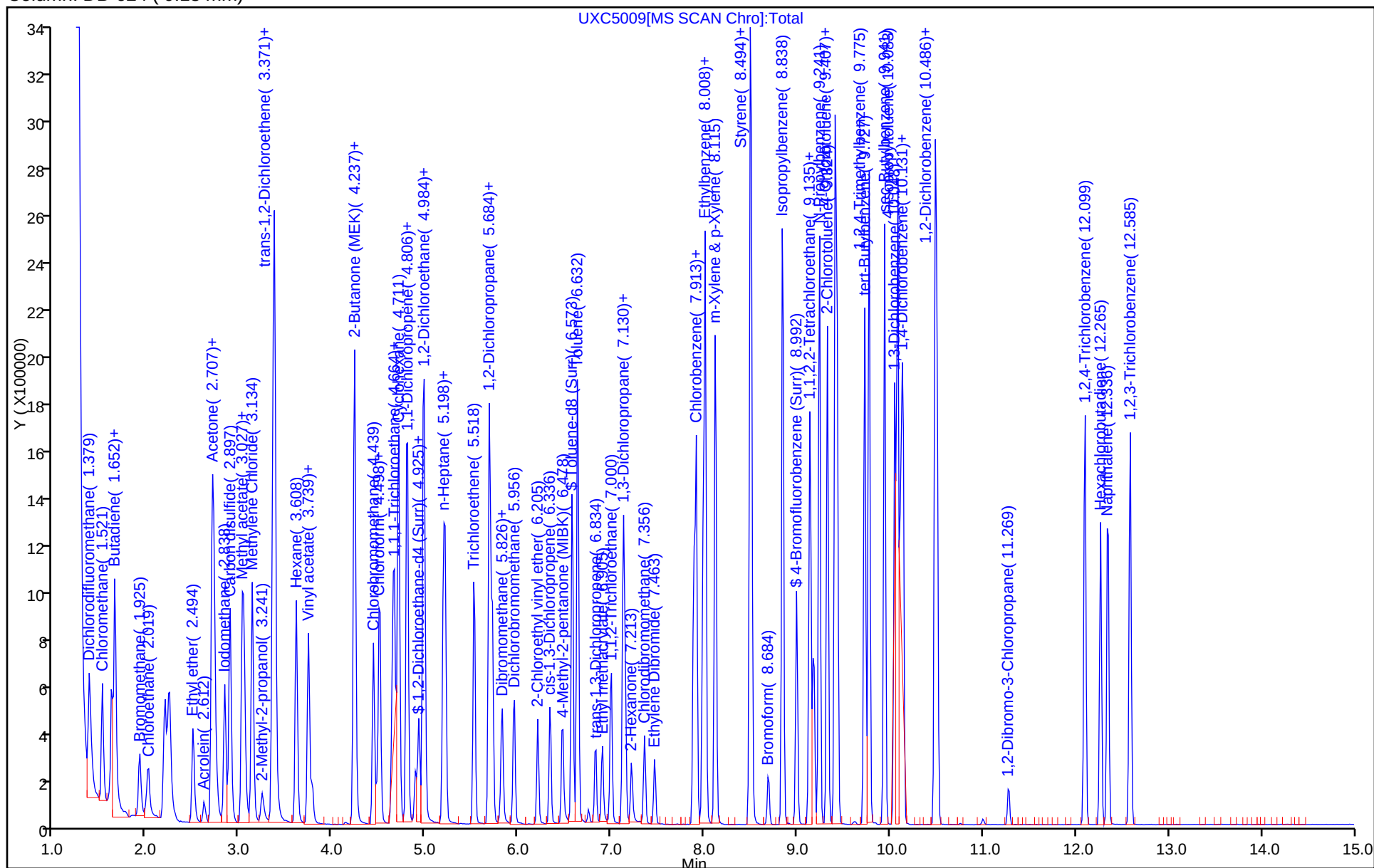
Limit Group: MSV 8260DOD ICAL

Operator ID: 43582

Worklist Smp#: 2

ALS Bottle#: 1

Column: DB-624 (0.18 mm)



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\BFB497.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-Oct-2014 07:59:30 ALS Bottle#: 14 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: C41002A-IC,BFBUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Method: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\8260_15.m
Limit Group: MSV 8260DOD ICAL
Last Update: 02-Oct-2014 14:40:51 Calib Date: 02-Oct-2014 13:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK027

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 8 BFB	95	3.465	3.465	0.000	0	518905	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

vmbfb_00012

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\BFB497.D

Injection Date: 02-Oct-2014 07:59:30

Instrument ID: A3UX15

Lims ID: BFB

Client ID:

Operator ID: 43582

ALS Bottle#: 14 Worklist Smp#: 1

Injection Vol: 5.0 mL

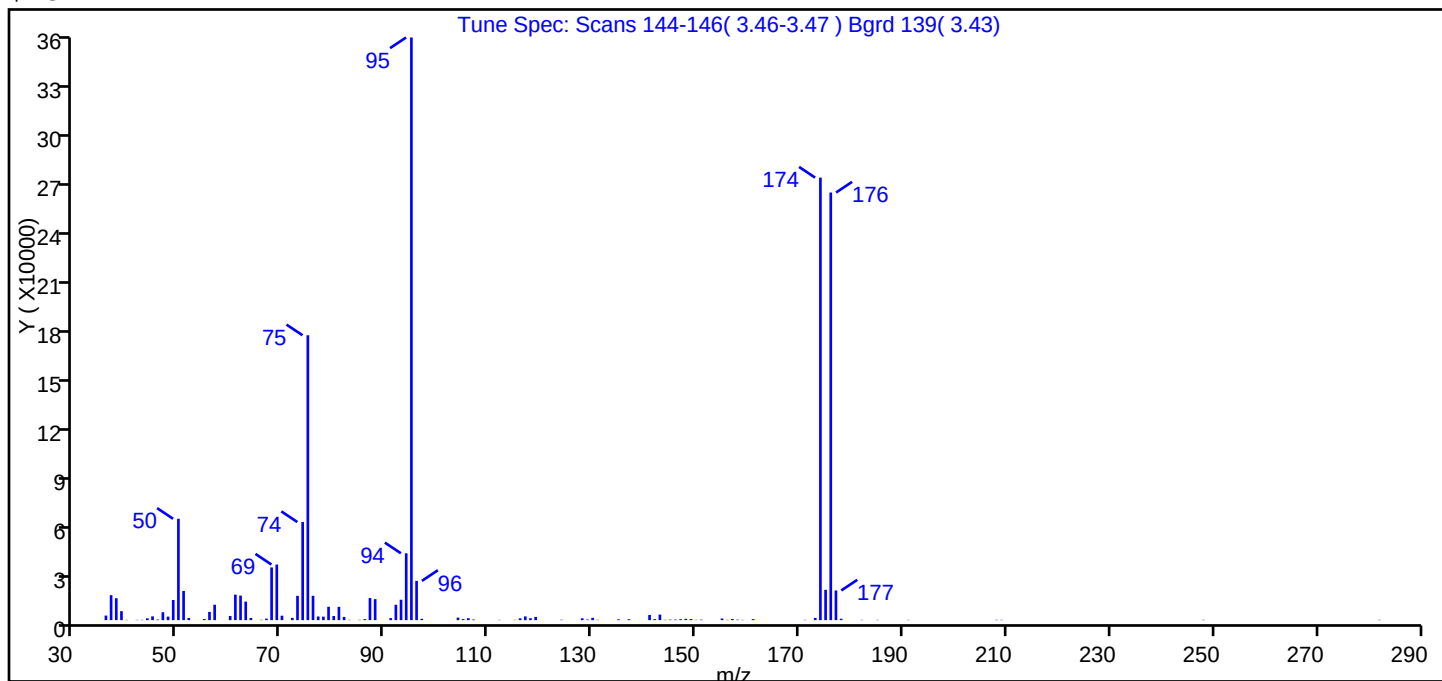
Dil. Factor: 1.0000

Method: 8260_15

Limit Group: MSV 8260DOD ICAL

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.40
75	30.00 - 60.00% of mass 95	48.90
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.40 (0.50)
174	50.00 - 120.00% of mass 95	76.00
175	5.00 - 9.00% of mass 174	5.20 (6.80)
176	95.00 - 101.00% of mass 174	73.40 (96.60)
177	5.00 - 9.00% of mass 176	5.10 (6.90)

Data File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\BFB497.D\8260_15.rslt\spectra.d
Injection Date: 02-Oct-2014 07:59:30
Spectrum: Tune Spec: Scans 144-146(3.46-3.47) Bgrd 139(3.43)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 100

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2768	67.00	925	96.00	23760	147.00	588
37.00	15112	68.00	31904	97.00	831	148.00	786
38.00	13267	69.00	33640	104.00	1526	149.00	683
39.00	5421	70.00	2679	105.00	636	150.00	174
40.00	155	72.00	1370	106.00	1176	151.00	284
42.00	180	73.00	14706	107.00	399	155.00	997
43.00	180	74.00	59368	112.00	167	156.00	167
44.00	1112	75.00	172416	115.00	172	157.00	671
45.00	2289	76.00	14724	116.00	1099	158.00	286
46.00	364	77.00	2196	117.00	2245	159.00	171
47.00	4800	78.00	2114	118.00	1192	161.00	617
48.00	2144	79.00	8094	119.00	1965	171.00	201
49.00	12176	80.00	2517	124.00	253	173.00	1344
50.00	61352	81.00	8053	128.00	1124	174.00	267840
51.00	17672	82.00	1965	129.00	372	175.00	18344
52.00	1299	83.00	170	130.00	1407	176.00	258816
55.00	668	85.00	191	131.00	204	177.00	17952
56.00	5010	86.00	622	135.00	489	178.00	875
57.00	9317	87.00	13372	137.00	541	182.00	175
60.00	2534	88.00	12716	141.00	3153	185.00	175
61.00	15436	91.00	1238	142.00	591	191.00	172
62.00	14855	92.00	9305	143.00	3376	208.00	204
63.00	11224	93.00	12359	144.00	202	209.00	196
64.00	1324	94.00	40464	145.00	325	248.00	220
66.00	208	95.00	352640	146.00	371	282.00	209

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\BFB502.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 07-Oct-2014 09:45:30 ALS Bottle#: 59 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: C41007A,BFBUX15,,43582
Operator ID: 43582 Instrument ID: A3UX15
Method: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\8260_15.m
Limit Group: MSV 8260DOD ICAL
Last Update: 08-Oct-2014 08:15:13 Calib Date: 02-Oct-2014 13:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: evansle

Date: 07-Oct-2014 10:06:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 8 BFB	95	3.465	3.465	0.000	0	427320	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

vmbfb_00012

Amount Added: 1.00

Units: uL

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\BFB502.D

Injection Date: 07-Oct-2014 09:45:30

Instrument ID: A3UX15

Lims ID: BFB

Client ID:

Operator ID: 43582

ALS Bottle#: 59 Worklist Smp#: 1

Injection Vol: 5.0 mL

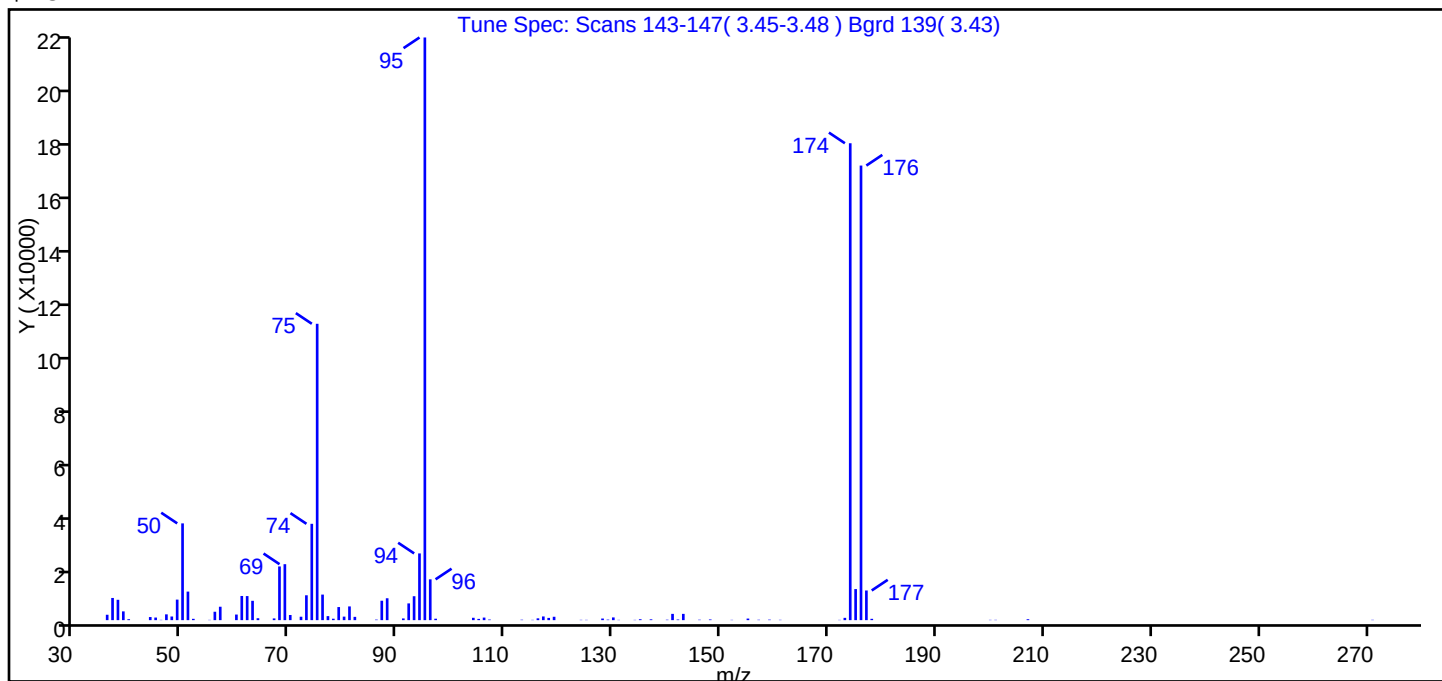
Dil. Factor: 1.0000

Method: 8260_15

Limit Group: MSV 8260DOD ICAL

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.60
75	30.00 - 60.00% of mass 95	50.90
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.40 (0.50)
174	50.00 - 120.00% of mass 95	81.80
175	5.00 - 9.00% of mass 174	5.30 (6.50)
176	95.00 - 101.00% of mass 174	78.00 (95.30)
177	5.00 - 9.00% of mass 176	5.10 (6.50)

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\BFB502.D\8260_15.rslt\spectra.d
Injection Date: 07-Oct-2014 09:45:30
Spectrum: Tune Spec: Scans 143-147(3.45-3.48) Bgrd 139(3.43)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2026	67.00	649	95.00	218944	140.00	166
37.00	8333	68.00	20176	96.00	15333	141.00	2358
38.00	7648	69.00	21024	97.00	537	142.00	238
39.00	3294	70.00	1934	104.00	887	143.00	2358
40.00	355	72.00	1285	105.00	469	146.00	162
44.00	1163	73.00	9343	106.00	964	148.00	258
45.00	977	74.00	36200	107.00	227	152.00	107
46.00	104	75.00	111360	113.00	161	155.00	590
47.00	2178	76.00	9605	115.00	108	157.00	150
48.00	1369	77.00	1511	116.00	680	159.00	194
49.00	7717	78.00	535	117.00	1387	161.00	123
50.00	36360	79.00	4917	118.00	841	172.00	101
51.00	10726	80.00	1325	119.00	1269	173.00	862
52.00	495	81.00	5159	124.00	116	174.00	179200
55.00	104	82.00	1237	125.00	107	175.00	11672
56.00	3157	86.00	201	128.00	605	176.00	170816
57.00	5041	87.00	7296	129.00	200	177.00	11143
60.00	2105	88.00	8223	130.00	1020	178.00	498
61.00	9079	91.00	640	131.00	103	200.00	111
62.00	9045	92.00	6292	134.00	103	201.00	115
63.00	7265	93.00	8988	135.00	338	207.00	338
64.00	717	94.00	25072	137.00	303	271.00	121

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-68343-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 240-150407/7

Matrix: Water Lab File ID: UXC5015.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2014 12:29

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

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

Analysis Batch No.: 150407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.17
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.26
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.45
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.41
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.20
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.22
108-67-8	1,3,5-Trimethylbenzene	1.0	U	1.0	0.48
78-93-3	2-Butanone (MEK)	10	U	10	4.1
591-78-6	2-Hexanone	10	U	10	3.9
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	3.6
67-64-1	Acetone	10	U	10	3.4
71-43-2	Benzene	1.0	U	1.0	0.24
75-25-2	Bromoform	1.0	U	1.0	0.56
74-83-9	Bromomethane	1.0	U	1.0	0.63
75-15-0	Carbon disulfide	1.0	U	1.0	0.28
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.17
108-90-7	Chlorobenzene	1.0	U	1.0	0.19
124-48-1	Dibromochloromethane	1.0	U	1.0	0.43
75-00-3	Chloroethane	1.0	U	1.0	0.33
67-66-3	Chloroform	1.0	U	1.0	0.21
74-87-3	Chloromethane	1.0	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.20
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
100-41-4	Ethylbenzene	1.0	U	1.0	0.23
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.19
1634-04-4	Methyl tert-butyl ether	1.0	U	1.0	0.16
75-09-2	Methylene Chloride	1.0	U	1.0	0.28
179601-23-1	m,p-Xylene	2.0	U	2.0	0.22
95-47-6	o-Xylene	1.0	U	1.0	0.21
127-18-4	Tetrachloroethene	1.0	U	1.0	0.20
108-88-3	Toluene	1.0	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.56
79-01-6	Trichloroethene	1.0	U	1.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-68343-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 240-150407/7
 Matrix: Water Lab File ID: UXC5015.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 10/07/2014 12:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 150407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	1.0	U	1.0	0.29
1330-20-7	Xylenes, Total	2.0	U	2.0	0.43
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.46
100-42-5	Styrene	1.0	U	1.0	0.45

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		63-129
460-00-4	4-Bromofluorobenzene (Surr)	82		66-120
2037-26-5	Toluene-d8 (Surr)	82		74-120
1868-53-7	Dibromofluoromethane (Surr)	84		75-121

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\UXC5015.D

Lims ID: MB

Client ID:

Sample Type: MB

Inject. Date: 07-Oct-2014 12:29:30

ALS Bottle#: 7

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Sample Info: 240-0035882-007

Misc. Info.: C41007A,8260LLUX15,,43582

Operator ID: 43582

Instrument ID: A3UX15

Method: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\8260_15.m

Limit Group: MSV 8260DOD ICAL

Last Update: 08-Oct-2014 08:15:15

Calib Date: 02-Oct-2014 13:04:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D

Column 1 : DB-624 (0.18 mm)

Det: MS SCAN

Process Host: XAWRK020

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.209	5.209	0.000	99	930104	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.889	7.890	-0.001	85	625225	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	95	388019	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	93	256901	8.90	7.46	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	270020	8.90	8.04	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	93	811089	8.90	7.30	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	91	300002	8.90	7.34	
9 Dichlorodifluoromethane	85		1.379					ND	
10 Chloromethane	50		1.521					ND	
11 Vinyl chloride	62		1.616					ND	
119 Butadiene	54		1.652					ND	
12 Bromomethane	94		1.925					ND	
13 Chloroethane	64		2.008					ND	
14 Dichlorofluoromethane	67		2.197					ND	
15 Trichlorofluoromethane	101		2.245					ND	
16 Ethyl ether	59		2.494					ND	
17 Acrolein	56		2.612					ND	
18 1,1-Dichloroethene	96		2.707					ND	
19 1,1,2-Trichloro-1,2,2-trif	151		2.719					ND	
20 Acetone	43		2.755					ND	
21 Methylal	45		2.767					ND	
22 Iodomethane	142		2.838					ND	
23 Carbon disulfide	76		2.897					ND	
24 Acetonitrile	41		3.004					ND	
25 3-Chloro-1-propene	76		3.027					ND	
26 Methyl acetate	43		3.051					ND	
27 Methylene Chloride	84		3.134					ND	
28 2-Methyl-2-propanol	59		3.241					ND	
29 Acrylonitrile	53		3.359					ND	
30 Methyl tert-butyl ether	73		3.371					ND	
31 trans-1,2-Dichloroethene	96		3.371					ND	
32 Hexane	86		3.608					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 1,1-Dichloroethane	63		3.739					ND	
34 Vinyl acetate	43		3.786					ND	
35 Isopropyl ether	87		3.798					ND	
36 2-Chloro-1,3-butadiene	53		3.822					ND	
37 Tert-butyl ethyl ether	59		4.107					ND	
38 2,2-Dichloropropane	77		4.237					ND	
39 cis-1,2-Dichloroethene	96		4.237					ND	
40 2-Butanone (MEK)	43		4.249					ND	
41 Ethyl acetate	43		4.296					ND	
42 Propionitrile	54		4.308					ND	
44 Methacrylonitrile	41		4.427					ND	
43 Chlorobromomethane	128		4.439					ND	
45 Tetrahydrofuran	42		4.474					ND	
46 Chloroform	83		4.510					ND	
47 1,1,1-Trichloroethane	97		4.664					ND	
48 Cyclohexane	56		4.711					ND	
49 1,1-Dichloropropene	75		4.794					ND	
50 Carbon tetrachloride	117		4.806					ND	
51 Isobutyl alcohol	41		4.889					ND	
52 Benzene	78		4.972					ND	
53 1,2-Dichloroethane	62		4.996					ND	
54 Tert-amyl methyl ether	73		5.067					ND	
55 n-Heptane	100		5.186					ND	
56 n-Butanol	56		5.447					ND	
57 Trichloroethene	130		5.518					ND	
58 Ethyl acrylate	55		5.613					ND	
59 Methylcyclohexane	83		5.684					ND	
60 1,2-Dichloropropane	63		5.719					ND	
61 Methyl methacrylate	41		5.803					ND	
62 Dibromomethane	93		5.814					ND	
63 1,4-Dioxane	88		5.838					ND	
64 Dichlorobromomethane	83		5.956					ND	
65 2-Nitropropane	41		6.146					ND	
66 2-Chloroethyl vinyl ether	63		6.205					ND	
67 cis-1,3-Dichloropropene	75		6.336					ND	
68 4-Methyl-2-pentanone (MIBK)	43		6.466					ND	
69 Toluene	91		6.632					ND	
70 trans-1,3-Dichloropropene	75		6.834					ND	
71 Ethyl methacrylate	69		6.905					ND	
72 1,1,2-Trichloroethane	97		7.000					ND	
73 Tetrachloroethene	164		7.130					ND	
74 1,3-Dichloropropane	76		7.142					ND	
75 2-Hexanone	43		7.213					ND	
76 n-Butyl acetate	43		7.320					ND	
77 Chlorodibromomethane	129		7.356					ND	
78 Tetrahydrothiophene	60		7.356					ND	
79 Ethylene Dibromide	107		7.463					ND	
80 1-Chlorohexane	91		7.878					ND	
81 Chlorobenzene	112		7.913					ND	
82 1,1,1,2-Tetrachloroethane	131		7.984					ND	
83 Ethylbenzene	106		8.008					ND	
84 m-Xylene & p-Xylene	91		8.115					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.494					ND	
86 Styrene	104		8.506					ND	
87 Bromoform	173		8.684					ND	
88 Isopropylbenzene	105		8.838					ND	
89 1,4-Dichlorobutane	55		8.945					ND	
90 Cyclohexanone	55		8.945					ND	
91 1,1,2,2-Tetrachloroethane	83		9.135					ND	
92 Bromobenzene	156		9.146					ND	
93 1,2,3-Trichloropropane	110		9.170					ND	
94 trans-1,4-Dichloro-2-buten	53		9.182					ND	
95 N-Propylbenzene	120		9.241					ND	
96 2-Chlorotoluene	126		9.324					ND	
118 3-Ethyltoluene	105		9.324					ND	
97 1,3,5-Trimethylbenzene	105		9.407					ND	
98 4-Chlorotoluene	91		9.431					ND	
117 2-Ethyltoluene	105		9.609					ND	
99 tert-Butylbenzene	119		9.727					ND	
100 Pentachloroethane	167		9.751					ND	
101 1,2,4-Trimethylbenzene	105		9.775					ND	
102 sec-Butylbenzene	105		9.941					ND	
103 1,3-Dichlorobenzene	146		10.048					ND	
104 4-Isopropyltoluene	119		10.083					ND	
105 1,4-Dichlorobenzene	146		10.143					ND	
106 1,2,3-Trimethylbenzene	105		10.190					ND	
107 Benzyl chloride	126		10.273					ND	
108 n-Butylbenzene	91		10.486					ND	
109 1,2-Dichlorobenzene	146		10.510					ND	
110 1,2-Dibromo-3-Chloropropan	157		11.281					ND	
111 1,3,5-Trichlorobenzene	180		11.483					ND	
112 1,2,4-Trichlorobenzene	180		12.099					ND	
113 Hexachlorobutadiene	225		12.265					ND	
114 Naphthalene	128		12.348					ND	
115 1,2,3-Trichlorobenzene	180		12.585					ND	
116 2-Methylnaphthalene	142	13.546	13.546	0.000	92	2847		0.9858	
129 1,3-Diethylbenzene TIC	1		0.000					ND	
123 Chlorodifluoromethane TIC	1		0.000					ND	
121 C6-C10	1		0.000					ND	
122 Epichlorohydrin	1		0.000					ND	
125 C6-C12	1		0.000					ND	
127 Ethylene oxide	1		0.000					ND	
124 Propene oxide	1		0.000					ND	
S 130 1,2-Dichloroethene, Total	96		1.140					0	
S 131 1,3-Dichloropropene, Total	75		6.760					0	
S 132 Xylenes, Total	106		16.530					0	
S 133 Trihalomethanes, Total	1		0.000					0	
T 120 Isobutylene TIC	56	1.593	1.500	0.093	87	48969		0	
T 126 1,3-Butadiene TIC	54		1.652					0	
T 134 Butyl Methacrylate TIC	1		8.925					0	
T 128 Pentachloroethane TIC	167		9.900					0	
T 135 Hexachloroethane TIC	1		10.220					0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

vm50ss_stk_00060	Amount Added: 0.89	Units: uL	Run Reagent
VM50IS_00044	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00028	Amount Added: 0.00	Units:	Run Reagent

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\UXC5015.D

Injection Date: 07-Oct-2014 12:29:30

Instrument ID: A3UX15

Operator ID: 43582

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

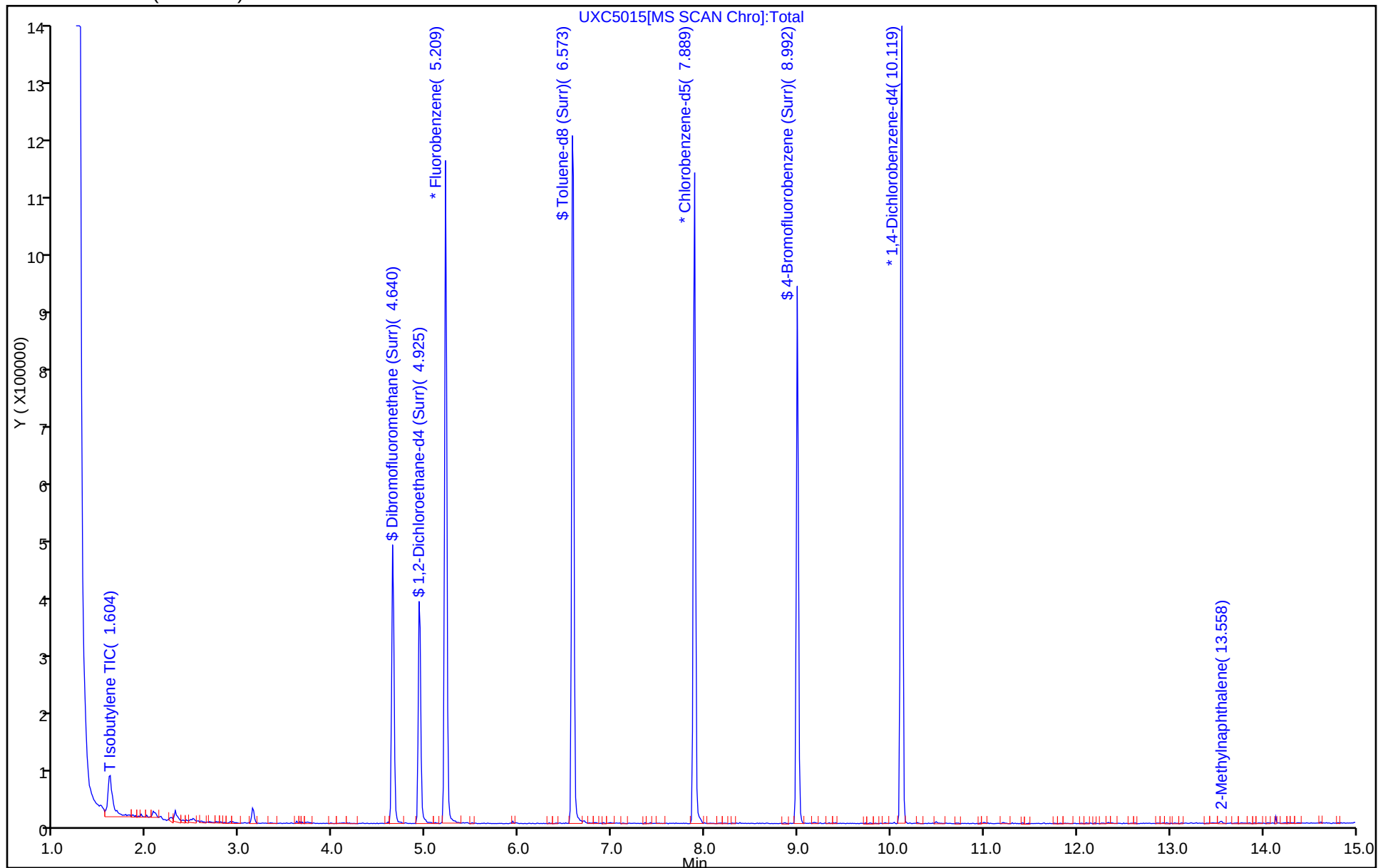
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260_15

Limit Group: MSV 8260DOD ICAL

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-68343-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 240-150407/4

Matrix: Water Lab File ID: UXC5010.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2014 10:36

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

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

Analysis Batch No.: 150407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	9.55		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	10.4		1.0	0.22
79-00-5	1,1,2-Trichloroethane	10.9		1.0	0.17
75-34-3	1,1-Dichloroethane	9.73		1.0	0.26
75-35-4	1,1-Dichloroethene	9.56		1.0	0.45
95-63-6	1,2,4-Trimethylbenzene	10.6		1.0	0.41
107-06-2	1,2-Dichloroethane	10.6		1.0	0.20
78-87-5	1,2-Dichloropropane	9.95		1.0	0.22
108-67-8	1,3,5-Trimethylbenzene	9.82		1.0	0.48
78-93-3	2-Butanone (MEK)	16.4		10	4.1
591-78-6	2-Hexanone	16.5		10	3.9
108-10-1	4-Methyl-2-pentanone (MIBK)	18.7		10	3.6
67-64-1	Acetone	15.7		10	3.4
71-43-2	Benzene	10.0		1.0	0.24
75-25-2	Bromoform	10.9		1.0	0.56
74-83-9	Bromomethane	6.44		1.0	0.63
75-15-0	Carbon disulfide	10.3		1.0	0.28
56-23-5	Carbon tetrachloride	9.93		1.0	0.17
108-90-7	Chlorobenzene	10.6		1.0	0.19
124-48-1	Dibromochloromethane	10.8		1.0	0.43
75-00-3	Chloroethane	7.29		1.0	0.33
67-66-3	Chloroform	10.0		1.0	0.21
74-87-3	Chloromethane	7.89		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.79		1.0	0.20
75-27-4	Bromodichloromethane	10.9		1.0	0.15
100-41-4	Ethylbenzene	10.5		1.0	0.23
106-93-4	1,2-Dibromoethane	11.3		1.0	0.19
1634-04-4	Methyl tert-butyl ether	9.77		1.0	0.16
75-09-2	Methylene Chloride	9.71		1.0	0.28
179601-23-1	m,p-Xylene	10.8		2.0	0.22
95-47-6	o-Xylene	10.6		1.0	0.21
127-18-4	Tetrachloroethene	11.0		1.0	0.20
108-88-3	Toluene	10.7		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	9.93		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	11.3		1.0	0.56
79-01-6	Trichloroethene	11.0		1.0	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 480-68343-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 240-150407/4
 Matrix: Water Lab File ID: UXC5010.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 10/07/2014 10:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 150407 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	7.72		1.0	0.29
1330-20-7	Xylenes, Total	21.4		2.0	0.43
10061-01-5	cis-1,3-Dichloropropene	11.1		1.0	0.46
100-42-5	Styrene	11.3		1.0	0.45

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129
460-00-4	4-Bromofluorobenzene (Surr)	91		66-120
2037-26-5	Toluene-d8 (Surr)	91		74-120
1868-53-7	Dibromofluoromethane (Surr)	85		75-121

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\UXC5010.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 07-Oct-2014 10:36:30 ALS Bottle#: 2 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 240-0035882-004
 Misc. Info.: C41007A,8260LLUX15,,43582
 Operator ID: 43582 Instrument ID: A3UX15
 Method: \\Ncchrom\ChromData\A3UX15\20141007-35882.b\8260_15.m
 Limit Group: MSV 8260DOD ICAL
 Last Update: 08-Oct-2014 08:15:15 Calib Date: 02-Oct-2014 13:04:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\Ncchrom\ChromData\A3UX15\20141002-35701.b\UXC4779.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: evansle

Date: 07-Oct-2014 12:30:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.210	5.209	0.001	99	1090923	10.0	10.0	
* 2 Chlorobenzene-d5	117	7.890	7.890	0.000	85	703414	10.0	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.119	10.119	0.000	91	443622	10.0	10.0	
\$ 4 Dibromofluoromethane (Surr	113	4.640	4.640	0.000	93	304803	8.90	7.55	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	4.925	4.925	0.000	0	297357	8.90	7.55	
\$ 6 Toluene-d8 (Surr)	98	6.573	6.573	0.000	92	1015242	8.90	8.12	
\$ 7 4-Bromofluorobenzene (Surr	95	8.992	8.992	0.000	89	373476	8.90	8.12	
9 Dichlorodifluoromethane	85	1.391	1.379	0.012	99	440916	10.0	6.73	
10 Chloromethane	50	1.522	1.521	0.001	99	556829	10.0	7.89	
11 Vinyl chloride	62	1.628	1.616	0.012	98	519330	10.0	7.72	
119 Butadiene	54	1.664	1.652	0.012	0	460417	NC	NC	
12 Bromomethane	94	1.925	1.925	0.000	92	211185	10.0	6.44	
13 Chloroethane	64	2.020	2.008	0.012	99	261878	10.0	7.29	
14 Dichlorofluoromethane	67	2.197	2.197	0.000	96	680122	10.0	8.21	
15 Trichlorofluoromethane	101	2.245	2.245	0.000	99	611418	10.0	8.16	
16 Ethyl ether	59	2.494	2.494	0.000	89	326066	10.0	10.1	
17 Acrolein	56	2.624	2.612	0.012	97	78444	50.0	81.5	
18 1,1-Dichloroethene	96	2.707	2.707	0.000	98	474781	10.0	9.56	
19 1,1,2-Trichloro-1,2,2-trif	151	2.731	2.719	0.012	92	391765	10.0	9.23	
20 Acetone	43	2.755	2.755	0.000	100	141403	20.0	15.7	
22 Iodomethane	142	2.838	2.838	0.000	99	832240	10.0	10.7	
23 Carbon disulfide	76	2.897	2.897	0.000	99	1575916	10.0	10.3	
25 3-Chloro-1-propene	76	3.028	3.027	0.001	90	248805	10.0	9.08	
26 Methyl acetate	43	3.051	3.051	0.000	97	975566	50.0	45.9	
27 Methylene Chloride	84	3.134	3.134	0.000	90	551074	10.0	9.71	
28 2-Methyl-2-propanol	59	3.241	3.241	0.000	90	112096	100.0	95.8	
29 Acrylonitrile	53	3.360	3.359	0.001	99	1133886	100.0	97.6	
30 Methyl tert-butyl ether	73	3.371	3.371	0.000	96	946015	10.0	9.77	
31 trans-1,2-Dichloroethene	96	3.371	3.371	0.000	95	542437	10.0	9.93	
32 Hexane	86	3.609	3.608	0.001	90	105270	10.0	10.0	
33 1,1-Dichloroethane	63	3.739	3.739	0.000	96	856420	10.0	9.73	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Vinyl acetate	43	3.787	3.786	0.000	97	199808	8.00	7.02	
38 2,2-Dichloropropane	77	4.237	4.237	0.000	59	403963	10.0	8.75	
39 cis-1,2-Dichloroethene	96	4.237	4.237	0.000	81	540943	10.0	9.79	
40 2-Butanone (MEK)	43	4.249	4.249	0.000	98	152851	20.0	16.4	
43 Chlorobromomethane	128	4.439	4.439	0.000	94	239820	10.0	10.2	
45 Tetrahydrofuran	42	4.474	4.474	0.000	85	110632	20.0	19.8	
46 Chloroform	83	4.510	4.510	0.000	93	835157	10.0	10.0	
47 1,1,1-Trichloroethane	97	4.664	4.664	0.000	98	616872	10.0	9.55	
48 Cyclohexane	56	4.711	4.711	0.000	87	775210	10.0	8.98	
49 1,1-Dichloropropene	75	4.794	4.794	0.000	96	572957	10.0	10.7	
50 Carbon tetrachloride	117	4.806	4.806	0.000	89	525146	10.0	9.93	
51 Isobutyl alcohol	41	4.889	4.889	0.000	91	123425	250.0	241.1	
52 Benzene	78	4.984	4.972	0.012	95	1717317	10.0	10.0	
53 1,2-Dichloroethane	62	4.996	4.996	0.000	98	486309	10.0	10.6	
55 n-Heptane	100	5.198	5.186	0.012	93	81749	10.0	9.88	
57 Trichloroethene	130	5.530	5.518	0.012	98	419751	10.0	11.0	
59 Methylcyclohexane	83	5.684	5.684	0.000	89	720236	10.0	9.27	
60 1,2-Dichloropropane	63	5.719	5.719	0.000	95	348915	10.0	9.95	
62 Dibromomethane	93	5.826	5.814	0.012	93	190854	10.0	11.1	
63 1,4-Dioxane	88	5.838	5.838	0.000	91	36482	200.0	144.0	
64 Dichlorobromomethane	83	5.957	5.956	0.001	100	398043	10.0	10.9	
66 2-Chloroethyl vinyl ether	63	6.206	6.205	0.001	93	126800	12.0	12.7	
67 cis-1,3-Dichloropropene	75	6.336	6.336	0.000	96	334389	10.0	11.1	
68 4-Methyl-2-pentanone (MIBK)	43	6.478	6.466	0.012	95	326001	20.0	18.7	
69 Toluene	91	6.633	6.632	0.001	99	1552012	10.0	10.7	
70 trans-1,3-Dichloropropene	75	6.834	6.834	0.000	92	239375	10.0	11.3	
71 Ethyl methacrylate	69	6.905	6.905	0.000	87	257846	10.0	12.5	
72 1,1,2-Trichloroethane	97	7.000	7.000	0.000	91	235146	10.0	10.9	
73 Tetrachloroethene	164	7.131	7.130	0.001	98	309752	10.0	11.0	
74 1,3-Dichloropropane	76	7.154	7.142	0.012	88	414532	10.0	11.1	
75 2-Hexanone	43	7.214	7.213	0.001	92	205926	20.0	16.5	
77 Chlorodibromomethane	129	7.356	7.356	0.000	90	219432	10.0	10.8	
79 Ethylene Dibromide	107	7.463	7.463	0.001	99	207693	10.0	11.3	
81 Chlorobenzene	112	7.913	7.913	0.000	95	968434	10.0	10.6	
82 1,1,1,2-Tetrachloroethane	131	7.984	7.984	0.000	92	329235	10.0	10.7	
83 Ethylbenzene	106	8.008	8.008	0.000	98	561102	10.0	10.5	
84 m-Xylene & p-Xylene	91	8.115	8.115	0.000	92	1415478	10.0	10.8	
85 o-Xylene	106	8.494	8.494	0.000	96	732156	10.0	10.6	
86 Styrene	104	8.506	8.506	0.000	93	1040004	10.0	11.3	
87 Bromoform	173	8.684	8.684	0.000	97	111960	10.0	10.9	
88 Isopropylbenzene	105	8.838	8.838	0.000	96	1926477	10.0	10.7	
91 1,1,2,2-Tetrachloroethane	83	9.135	9.135	0.000	96	312565	10.0	10.4	
92 Bromobenzene	156	9.147	9.146	0.001	91	417899	10.0	10.5	
93 1,2,3-Trichloropropane	110	9.182	9.170	0.012	82	109038	10.0	11.2	
94 trans-1,4-Dichloro-2-buten	53	9.182	9.182	0.000	69	32860	10.0	9.34	
95 N-Propylbenzene	120	9.241	9.241	0.000	99	502542	10.0	10.7	
96 2-Chlorotoluene	126	9.324	9.324	0.000	97	446616	10.0	10.6	
97 1,3,5-Trimethylbenzene	105	9.407	9.407	0.000	94	1631665	10.0	9.82	
98 4-Chlorotoluene	91	9.431	9.431	0.000	98	1483652	10.0	10.5	
99 tert-Butylbenzene	119	9.728	9.727	0.001	92	1224144	10.0	9.36	
101 1,2,4-Trimethylbenzene	105	9.775	9.775	0.000	96	1691454	10.0	10.6	
102 sec-Butylbenzene	105	9.941	9.941	0.000	94	1848889	10.0	10.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.048	10.048	0.000	97	861041	10.0	9.86	
104 4-Isopropyltoluene	119	10.083	10.083	0.000	97	1663217	10.0	10.5	
105 1,4-Dichlorobenzene	146	10.143	10.143	0.000	97	880387	10.0	9.94	
108 n-Butylbenzene	91	10.487	10.486	0.001	97	1355550	10.0	9.83	
109 1,2-Dichlorobenzene	146	10.510	10.510	0.000	99	870778	10.0	9.89	
110 1,2-Dibromo-3-Chloropropan	157	11.281	11.281	0.000	79	44951	10.0	9.38	
112 1,2,4-Trichlorobenzene	180	12.099	12.099	0.000	94	580820	10.0	9.58	
113 Hexachlorobutadiene	225	12.265	12.265	0.000	98	250276	10.0	9.35	
114 Naphthalene	128	12.348	12.348	0.000	97	1122224	10.0	8.84	
115 1,2,3-Trichlorobenzene	180	12.586	12.585	0.001	96	515756	10.0	9.57	
S 132 Xylenes, Total	106				0		20.0	21.4	
S 133 Trihalomethanes, Total	1				0		40.0	42.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

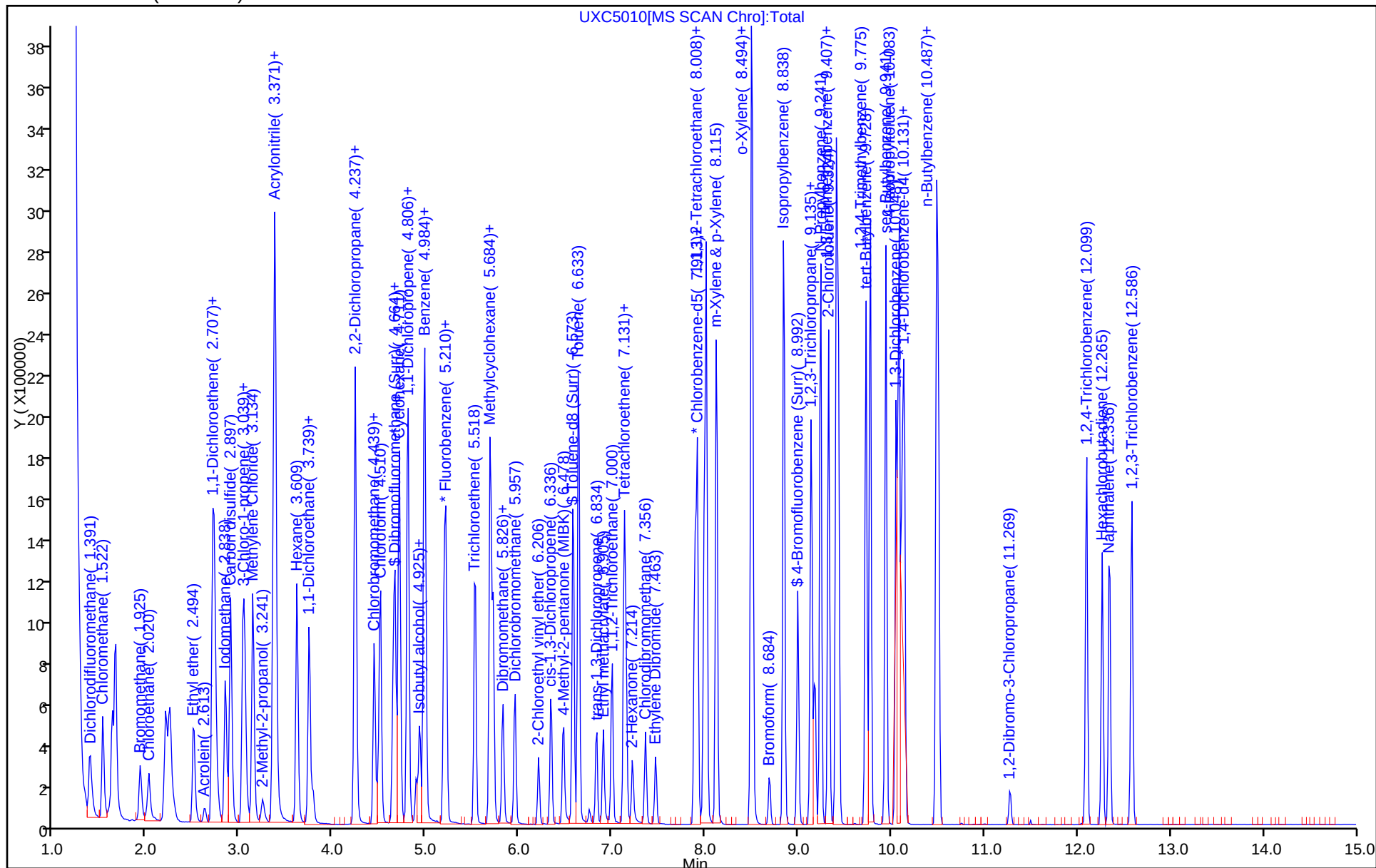
Reagents:

VMFASAW_00051	Amount Added: 8.00	Units: uL	
VMFASPW_00054	Amount Added: 8.00	Units: uL	
VMFASGW_00059	Amount Added: 8.00	Units: uL	
vm50ss_stk_00060	Amount Added: 0.89	Units: uL	Run Reagent
VM50IS_00044	Amount Added: 1.00	Units: uL	Run Reagent
vmDist_H2o_00028	Amount Added: 0.00	Units:	Run Reagent

Data File:	\\Ncchrom\ChromData\A3UX15\20141007-35882.b\UXC5010.D		
Injection Date:	07-Oct-2014 10:36:30	Instrument ID:	A3UX15
Lims ID:	LCS		
Client ID:			
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_15	Limit Group:	MSV 82
Column:	DB-624 (0.18 mm)		

Operator ID: 43582
Worklist Smp#: 4

ALS Bottle#: 2



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 480-68343-1

SDG No.: _____

Instrument ID: A3UX15 Start Date: 10/02/2014 07:59Analysis Batch Number: 149718 End Date: 10/02/2014 19:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-149718/1		10/02/2014 07:59	1	BFB497.D	DB-624 0.18 (mm)
STD8260 240-149718/2 IC		10/02/2014 08:39	1	UXC4768.D	DB-624 0.18 (mm)
STD8260 240-149718/3 IC		10/02/2014 09:02	1	UXC4769.D	DB-624 0.18 (mm)
STD8260 240-149718/4 ICIS		10/02/2014 09:24	1	UXC4770.D	DB-624 0.18 (mm)
STD8260 240-149718/5 IC		10/02/2014 09:46	1	UXC4771.D	DB-624 0.18 (mm)
STD8260 240-149718/6 IC		10/02/2014 10:09	1	UXC4772.D	DB-624 0.18 (mm)
STD8260 240-149718/7 IC		10/02/2014 10:32	1	UXC4773.D	DB-624 0.18 (mm)
STD 240-149718/8 IC		10/02/2014 11:11	1		DB-624 0.18 (mm)
STD 240-149718/9 IC		10/02/2014 11:34	1		DB-624 0.18 (mm)
STD 240-149718/10 IC		10/02/2014 11:56	1		DB-624 0.18 (mm)
STD 240-149718/11 IC		10/02/2014 12:19	1		DB-624 0.18 (mm)
STD 240-149718/12 IC		10/02/2014 12:41	1		DB-624 0.18 (mm)
STD 240-149718/13 IC		10/02/2014 13:04	1		DB-624 0.18 (mm)
ICV 240-149718/14		10/02/2014 13:26	1	UXC4780.D	DB-624 0.18 (mm)
ICV 240-149718/15		10/02/2014 13:49	1	UXC4781.D	DB-624 0.18 (mm)
ZZZZZ		10/02/2014 14:12	1		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 14:57	1		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 15:19	1		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 15:42	1		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 16:05	5		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 16:28	1		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 17:13	1		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 17:36	1		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 18:20	1		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 18:42	1		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 19:05	1		DB-624 0.18 (mm)
ZZZZZ		10/02/2014 19:27	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 480-68343-1

SDG No.: _____

Instrument ID: A3UX15 Start Date: 10/07/2014 09:45Analysis Batch Number: 150407 End Date: 10/07/2014 20:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-150407/1		10/07/2014 09:45	1	BFB502.D	DB-624 0.18 (mm)
CCVIS 240-150407/2		10/07/2014 10:13	1	UXC5009.D	DB-624 0.18 (mm)
LCS 240-150407/4		10/07/2014 10:36	1	UXC5010.D	DB-624 0.18 (mm)
CCV 240-150407/3		10/07/2014 10:59	1	UXC5011.D	DB-624 0.18 (mm)
ZZZZZ		10/07/2014 11:21	1		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 11:44	1		DB-624 0.18 (mm)
MB 240-150407/7		10/07/2014 12:29	1	UXC5015.D	DB-624 0.18 (mm)
ZZZZZ		10/07/2014 12:52	66.67		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 13:15	33.33		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 13:37	20		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 14:00	100		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 14:23	62.5		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 14:47	100		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 15:10	10		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 15:32	1		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 15:55	1		DB-624 0.18 (mm)
480-68343-1	1-2A	10/07/2014 16:18	1	UXC5025.D	DB-624 0.18 (mm)
480-68343-2	1-3	10/07/2014 16:40	1	UXC5026.D	DB-624 0.18 (mm)
ZZZZZ		10/07/2014 17:25	10		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 17:47	20		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 18:10	62.5		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 18:32	1		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 18:54	1		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 19:16	1		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 19:38	1		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 20:01	1		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 20:23	1		DB-624 0.18 (mm)
ZZZZZ		10/07/2014 20:45	1		DB-624 0.18 (mm)

Subcontract Data

Shipping and Receiving Documents

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Drinking Water? Yes ☐ No ☐

Client	ARCADIS	Project Manager	Jerry Wyckoff	Date	9/30/14	Chain of Custody Number	223268
Address	855 Route 146, STE 210	Telephone Number (Area Code)/Fax Number	578-250-7300	Lab Number		Page	1 of 1

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page	of
855 Route 146, STE 210	578-250-7300		1	1

City	State	Zip Code	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)				
Clifton Park	NY	12065	J. W. Skoff	Judy Stone					
Project Name and Location (State)			Carrier/Waybill Number						

Contract/Purchase Order/Quote No.	Matrix	Containers & Preservatives
N75DEC - Vestal		
00266401.0000		

**Special Instructions/
Conditions of Receipt**

Sample I.D. No. and Description

for each sample may be combined on one line)

4-21-

M
1

Page 110 of 111



480-68343 Chain of Custody

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable

Time Around Time Required

☐ 24 Hours ☐ 48 Hours

1. Relinquished By

3

Relinquished By

0/1

Relinquished By

/20

Comments

1

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

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-68343-1

Login Number: 68343

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robison, Zachary J

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	
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	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



Microbac Laboratories, Inc., New York Division
CERTIFICATE OF ANALYSIS
J4G0331

TOWN OF VESTAL

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363

Project Name: DO NOT SEND TO SAYRE

Project / PO Number: N/A
Received: 07/22/2014 15:44
Reported: 08/01/2014 15:54

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4G0331-01

Collection Date: 07/22/14
Collection Time: 09:55
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,2-Dibromoethane	< 0.0005	0.0005	mg/L	N	07/25/14 1911	07/25/14 1911	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Benzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Bromodichloromethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Bromoform	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Bromomethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Chloroethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Chloroform	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Chloromethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4G0331-01

Collection Date: 07/22/14
Collection Time: 09:55
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Cumene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Dibromochloromethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Ethylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
MTBE	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Naphthalene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
o-Xylene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Styrene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Toluene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		07/25/14 1911	07/25/14 1911	DN-
1,2-Dichlorobenzene-d4	80	70-130	% Rec		07/25/14 1911	07/25/14 1911	DN-
4-Bromofluorobenzene	89	70-130	% Rec		07/25/14 1911	07/25/14 1911	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4G0331-02

Collection Date: 07/22/14
Collection Time: 10:00
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,2-Dibromoethane	< 0.0005	0.0005	mg/L	N	07/25/14 1935	07/25/14 1935	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Benzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Bromodichloromethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Bromoform	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Bromomethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Chloroethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Chloroform	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Chloromethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Cumene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Dibromochloromethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4G0331-02

Collection Date: 07/22/14
Collection Time: 10:00
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
MTBE	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Naphthalene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
o-Xylene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Styrene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Toluene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		07/25/14 1935	07/25/14 1935	DN-
1,2-Dichlorobenzene-d4	85	70-130	% Rec		07/25/14 1935	07/25/14 1935	DN-
4-Bromofluorobenzene	93	70-130	% Rec		07/25/14 1935	07/25/14 1935	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4G0331-03

Collection Date: 07/22/14
Collection Time: 10:05
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,2-Dibromoethane	< 0.0005	0.0005	mg/L	N	07/25/14 1959	07/25/14 1959	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Benzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Bromodichloromethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Bromoform	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Bromomethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Chloroethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Chloroform	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Chloromethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Cumene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Dibromochloromethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4G0331-03

Collection Date: 07/22/14
Collection Time: 10:05
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
MTBE	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Naphthalene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
o-Xylene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Styrene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Toluene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		07/25/14 1959	07/25/14 1959	DN-
1,2-Dichlorobenzene-d4	84	70-130	% Rec		07/25/14 1959	07/25/14 1959	DN-
4-Bromofluorobenzene	92	70-130	% Rec		07/25/14 1959	07/25/14 1959	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4G0331-04

Collection Date: 07/22/14
Collection Time: 10:10
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,2-Dibromoethane	< 0.0005	0.0005	mg/L	N	07/28/14 1811	07/28/14 1811	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Benzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Bromodichloromethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Bromoform	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Bromomethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Chloroethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Chloroform	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Chloromethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Cumene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Dibromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4G0331-04

Collection Date: 07/22/14
Collection Time: 10:10
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
MTBE	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Naphthalene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
o-Xylene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Styrene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Toluene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		07/28/14 1811	07/28/14 1811	DN-
1,2-Dichlorobenzene-d4	84	70-130	% Rec		07/28/14 1811	07/28/14 1811	DN-
4-Bromofluorobenzene	92	70-130	% Rec		07/28/14 1811	07/28/14 1811	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4G0331-05

Collection Date: 07/22/14
Collection Time: 10:45
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,1,1-Trichloroethane	0.0011	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,2-Dibromoethane	< 0.0005	0.0005	mg/L	N	07/28/14 1835	07/28/14 1835	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Benzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Bromodichloromethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Bromoform	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Bromomethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Chloroethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Chloroform	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Chloromethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Cumene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Dibromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4G0331-05

Collection Date: 07/22/14
Collection Time: 10:45
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
MTBE	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Naphthalene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
o-Xylene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Styrene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Tetrachloroethene	0.0007	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Toluene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Trichloroethene	0.0014	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		07/28/14 1835	07/28/14 1835	DN-
1,2-Dichlorobenzene-d4	82	70-130	% Rec		07/28/14 1835	07/28/14 1835	DN-
4-Bromofluorobenzene	92	70-130	% Rec		07/28/14 1835	07/28/14 1835	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4G0331-06

Collection Date: 07/22/14
Collection Time: 10:50
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,2-Dibromoethane	< 0.0005	0.0005	mg/L	N	07/28/14 1859	07/28/14 1859	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Benzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Bromodichloromethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Bromoform	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Bromomethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Chloroethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Chloroform	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Chloromethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Cumene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Dibromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4G0331-06

Collection Date: 07/22/14
Collection Time: 10:50
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
MTBE	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Naphthalene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
o-Xylene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Styrene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Toluene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		07/28/14 1859	07/28/14 1859	DN-
1,2-Dichlorobenzene-d4	86	70-130	% Rec		07/28/14 1859	07/28/14 1859	DN-
4-Bromofluorobenzene	94	70-130	% Rec		07/28/14 1859	07/28/14 1859	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4G0331-07

Collection Date: 07/21/14
Collection Time: 14:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,2-Dibromoethane	< 0.0005	0.0005	mg/L	N	07/28/14 1922	07/28/14 1922	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Benzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Bromodichloromethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Bromoform	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Bromomethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Chloroethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Chloroform	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Chloromethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Cumene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Dibromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4G0331-07

Collection Date: 07/21/14
Collection Time: 14:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
MTBE	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Naphthalene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
o-Xylene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Styrene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Toluene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		07/28/14 1922	07/28/14 1922	DN-
1,2-Dichlorobenzene-d4	81	70-130	% Rec		07/28/14 1922	07/28/14 1922	DN-
4-Bromofluorobenzene	94	70-130	% Rec		07/28/14 1922	07/28/14 1922	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 4-3 Raw
Lab Sample ID: J4G0331-08

Collection Date: 07/22/14
Collection Time: 11:20
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,2-Dibromoethane	< 0.0005	0.0005	mg/L	N	07/28/14 1946	07/28/14 1946	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Benzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Bromodichloromethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Bromoform	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Bromomethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Chloroethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Chloroform	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Chloromethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Cumene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Dibromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 4-3 Raw
Lab Sample ID: J4G0331-08

Collection Date: 07/22/14
Collection Time: 11:20
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
MTBE	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Naphthalene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
o-Xylene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Styrene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Toluene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		07/28/14 1946	07/28/14 1946	DN-
1,2-Dichlorobenzene-d4	83	70-130	% Rec		07/28/14 1946	07/28/14 1946	DN-
4-Bromofluorobenzene	92	70-130	% Rec		07/28/14 1946	07/28/14 1946	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 4-4 Raw
Lab Sample ID: J4G0331-09

Collection Date: 07/22/14
Collection Time: 11:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,2-Dibromoethane	< 0.0005	0.0005	mg/L	N	07/28/14 2010	07/28/14 2010	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Benzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Bromodichloromethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Bromoform	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Bromomethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Chloroethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Chloroform	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Chloromethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Cumene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Dibromochloromethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 4-4 Raw
Lab Sample ID: J4G0331-09

Collection Date: 07/22/14
Collection Time: 11:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
MTBE	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Naphthalene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
o-Xylene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Styrene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Toluene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		07/28/14 2010	07/28/14 2010	DN-
1,2-Dichlorobenzene-d4	84	70-130	% Rec		07/28/14 2010	07/28/14 2010	DN-
4-Bromofluorobenzene	94	70-130	% Rec		07/28/14 2010	07/28/14 2010	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 5-1 Raw
Lab Sample ID: J4G0331-10

Collection Date: 07/22/14
Collection Time: 09:07
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,2-Dibromoethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Benzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Bromodichloromethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Bromoform	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Bromomethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Chloroethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Chloroform	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Chloromethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Cumene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Dibromochloromethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 5-1 Raw
Lab Sample ID: J4G0331-10

Collection Date: 07/22/14
Collection Time: 09:07
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
MTBE	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Naphthalene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
o-Xylene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Styrene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Toluene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		07/30/14 1523	07/30/14 1523	DN-
1,2-Dichlorobenzene-d4	83	70-130	% Rec		07/30/14 1523	07/30/14 1523	DN-
4-Bromofluorobenzene	93	70-130	% Rec		07/30/14 1523	07/30/14 1523	DN-

Definitions

N: Parameter is not NELAP certified
NPDWR: National Primary Drinking Water Regulations
NSDWR: National Secondary Drinking Water Regulations
NYMCL: New York State Method Contamination Level

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	4.90 °C	Preservation Correct (or not required):	Yes
COC/Labels Agree:	Yes	Custody Seals Intact and/or No Evidence of Tampering	Yes
Containers Intact:	Yes		



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

A handwritten signature in black ink that reads "Jennifer M. Walker".

Jennifer Walker
General Manager

Go Green:

Contact your project manager to set up email reporting and invoicing options.

For any feedback concerning our services, please contact your Project Manager listed above at 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

3821 Buck Drive
Cortland NY 13045
Phone: (607) 753-3403 Fax: (607) 753-3415
NY #10795, EPA #NY00935

Microbac Laboratories, Inc. CHAIN OF CUSTODY

Client Information				Billing/Invoice:				Analysis Requested				Receiving Info (Lab Use Only)																									
Name: Town Of Vestal												Ice: YES NO																									
Address:												Cooler: YES NO																									
Contact:												Sample Temp: 4.9																									
Phone:												Cooler Seal: YES NO																									
Project:												Pickup: YES NO																									
Quote ID:				PO#:								Dropoff: C W																									
Rush TAT Bus. Days: <2 2-5 5-7 7-10				Date Req.:								Accepted? YES NO																									
Carbon Copy: Yes												Container Material																									
Email Results: Yes												Container Size (in MI)																									
Fax Results: Yes												Preservative																									
Sample Information								Number of Containers for Analysis Requested								Comments/Field Data																					
Description/Location				Date		Time		Initial		Matrix		Type		DW		G		DW		G		DW		G		DW		G		DW		G		DW		G	
1 1-2A Raw				7-22-14		0955		PSB		2		Glass		40		HCL		524.2		Glass		40		HCL		524.2											
2 1-2A Finished						81000				2		Glass		40		HCL																					
3 1-3 Raw						1005				2		Glass		40		HCL																					
4 1-3 Finished						1010				2		Glass		40		HCL																					
5 4-2 Raw						1045				2		Glass		40		HCL																					
6 4-2 Finished						1050				2		Glass		40		HCL																					
7 Trip Blank				7-22-14		1430		PSB		1		Glass		40		HCL																					
8																																					

Print Name and Company		Signature		Date/Time		Comments	
Sampled: Deron Brechele/Microbac Cortland NY		<i>[Signature]</i>		7-22-14/1544		Do Not Send To Sayre	
Received: Christine Rhodes MCI		<i>[Signature]</i>		7/22/14, 544			
Received:							
Received:							

Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory.
By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.



J4G0331

3821 Buck Drive
Cortland NY 13045
Phone:(607)753-3403 Fax:(607)753-3415
NY #10795, EPA #NY00935

Microbac Laboratories, Inc. CHAIN OF CUSTODY

Client Information				Billing/Invoice:		Analysis Requested				Receiving Info (Lab Use Only)			
Name:	Town Of Vestal									Ice: ☒ YES ☐ NO			
Address:										Cooler: ☒ YES ☐ NO			
Contact:										Sample Temp: 4.9			
Phone:										Cooler Seal: YES NO			
Project:										Pickup: YES NO			
Quote ID:	PO#:									Dropoff: C W			
Rush TAT Bus. Days: <2 2-5 5-7 7-10 Date Req.:										Accepted? YES NO			
Carbon Copy: Yes										Container Material			
Email Results: Yes										Container Size(in MI)			
Fax Results: Yes										Preservative			
Sample Information						Number of Containers for Analysis Requested						Comments/Field Data	
Description/Location	Date	Time	Initial	Matrix Type									
1 4-3 Raw	7-22-14	1120	DSB	DW		2							
2 4-4 Raw	↓	1130	↓	G		2							
3 5-1 Raw	7-22-14	0907	↓	DW		2							
4				G									
5													
6													
7													
8													
Print Name and Company						Signature		Date/Time		Comments			
Sampled: Deron Biechele/Microbac Cortland NY						7-22-14		1544		Do Not send To Sayre			
Received: Christine Rhodes MLI						Christine Rhodes		7/22/14 1544					
Received:													
Received:													
Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.													

J4G0331



Microbac Laboratories, Inc., New York Division
CERTIFICATE OF ANALYSIS
J4H0303

TOWN OF VESTAL

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363

Project Name: DO NOT SEND TO SAYRE

Project / PO Number: N/A
Received: 08/19/2014 14:40
Reported: 09/19/2014 10:00

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4H0303-01

Collection Date: 08/18/14
Collection Time: 13:00
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Benzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Bromomethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Chloroethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Chloromethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Ethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4H0303

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4H0303-01

Collection Date: 08/18/14
Collection Time: 13:00
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Naphthalene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
n-Propylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
o-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Styrene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Toluene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		08/27/14 1301	08/27/14 1301	DN-
1,2-Dichlorobenzene-d4	92	70-130	% Rec		08/27/14 1301	08/27/14 1301	DN-
4-Bromofluorobenzene	95	70-130	% Rec		08/27/14 1301	08/27/14 1301	DN-

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

Page 2 of 16



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4H0303

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4H0303-02

Collection Date: 08/18/14
Collection Time: 13:05
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Benzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Bromomethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Chloroethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Chloromethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Ethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Naphthalene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4H0303

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4H0303-02

Collection Date: 08/18/14
Collection Time: 13:05
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
n-Propylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
o-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Styrene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Toluene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		08/27/14 1324	08/27/14 1324	DN-
1,2-Dichlorobenzene-d4	89	70-130	% Rec		08/27/14 1324	08/27/14 1324	DN-
4-Bromofluorobenzene	95	70-130	% Rec		08/27/14 1324	08/27/14 1324	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4H0303

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4H0303-03

Collection Date: 08/18/14
Collection Time: 13:15
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Benzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Bromomethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Chloroethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Chloromethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Ethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Naphthalene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4H0303

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4H0303-03

Collection Date: 08/18/14
Collection Time: 13:15
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
n-Propylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
o-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Styrene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Toluene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		08/27/14 1348	08/27/14 1348	DN-
1,2-Dichlorobenzene-d4	91	70-130	% Rec		08/27/14 1348	08/27/14 1348	DN-
4-Bromofluorobenzene	92	70-130	% Rec		08/27/14 1348	08/27/14 1348	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4H0303

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4H0303-04

Collection Date: 08/18/14
Collection Time: 13:20
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Benzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Bromomethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Chloroethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Chloromethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Ethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Naphthalene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4H0303

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4H0303-04

Collection Date: 08/18/14
Collection Time: 13:20
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
n-Propylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
o-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Styrene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Toluene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		08/27/14 1412	08/27/14 1412	DN-
1,2-Dichlorobenzene-d4	93	70-130	% Rec		08/27/14 1412	08/27/14 1412	DN-
4-Bromofluorobenzene	93	70-130	% Rec		08/27/14 1412	08/27/14 1412	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4H0303

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4H0303-05

Collection Date: 08/18/14
Collection Time: 12:36
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,1,1-Trichloroethane	0.0012	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Benzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Bromomethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Chloroethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Chloromethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Ethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Naphthalene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4H0303

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4H0303-05

Collection Date: 08/18/14
Collection Time: 12:36
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
n-Propylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
o-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Styrene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Tetrachloroethene	0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Toluene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Trichloroethene	0.0015	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		08/27/14 1436	08/27/14 1436	DN-
1,2-Dichlorobenzene-d4	92	70-130	% Rec		08/27/14 1436	08/27/14 1436	DN-
4-Bromofluorobenzene	95	70-130	% Rec		08/27/14 1436	08/27/14 1436	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4H0303

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4H0303-06

Collection Date: 08/18/14
Collection Time: 12:42
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Benzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Bromomethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Chloroethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Chloromethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Ethylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Naphthalene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4H0303

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4H0303-06

Collection Date: 08/18/14
Collection Time: 12:42
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
n-Propylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
o-Xylene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Styrene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Toluene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		08/27/14 1459	08/27/14 1459	DN-
1,2-Dichlorobenzene-d4	91	70-130	% Rec		08/27/14 1459	08/27/14 1459	DN-
4-Bromofluorobenzene	91	70-130	% Rec		08/27/14 1459	08/27/14 1459	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4H0303

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4H0303-07

Collection Date: 08/18/14
Collection Time: N/A
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2							
1,1,1,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,1,1-Trichloroethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,1,2,2-Tetrachloroethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,1,2-Trichloroethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,1-Dichloroethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,1-Dichloroethene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,1-Dichloropropene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,2,3-Trichlorobenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,2,3-Trichloropropane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,2,4-Trichlorobenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,2,4-Trimethylbenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,2-Dichlorobenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,2-Dichloroethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,2-Dichloropropane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,3,5-Trimethylbenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,3-Dichlorobenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,3-Dichloropropane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,4-Dichlorobenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
2,2-Dichloropropane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
2-Chlorotoluene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
4-Chlorotoluene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
4-Isopropyltoluene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Benzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Bromobenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Bromochloromethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Bromomethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Carbon tetrachloride	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Chlorobenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Chloroethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Chloromethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
cis-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
cis-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Dibromomethane	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Dichlorodifluoromethane	< 0.0005	0.0005	mg/L	Q	09/16/14 1804	09/16/14 1804	DN-
Ethylbenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Hexachlorobutadiene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
m,p-Xylene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Methylene chloride	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Naphthalene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
n-Butylbenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4H0303

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4H0303-07

Collection Date: 08/18/14
Collection Time: N/A
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

	Result	PQL	Units	Note	Prepared	Analyzed	Analyst
n-Propylbenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
o-Xylene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
sec-Butylbenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Styrene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
tert-Butylbenzene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Tetrachloroethene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Toluene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
trans-1,2-Dichloroethene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
trans-1,3-Dichloropropene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Trichloroethene	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Trichlorofluoromethane	< 0.0005	0.0005	mg/L	Q	09/16/14 1804	09/16/14 1804	DN-
Vinyl chloride	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
Xylenes, Total	< 0.0005	0.0005	mg/L		09/16/14 1804	09/16/14 1804	DN-
1,2-Dichlorobenzene-d4	96	70-130	% Rec		09/16/14 1804	09/16/14 1804	DN-
4-Bromofluorobenzene	98	70-130	% Rec		09/16/14 1804	09/16/14 1804	DN-

Definitions

Q: Due to matrix effects, not all quality control parameters met acceptance criteria
NPDWR: National Primary Drinking Water Regulations
NSDWR: National Secondary Drinking Water Regulations
NYMCL: New York State Method Contamination Level

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	0.90 °C	Preservation Correct (or not required):	Yes
COC/Labels Agree:	Yes	Custody Seals Intact and/or No Evidence of Tampering	Yes
Containers Intact:	Yes		



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4H0303

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

A handwritten signature in black ink that reads "Jennifer M. Walker".

Jennifer Walker
General Manager

Go Green:

Contact your project manager to set up email reporting and invoicing options.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

For any feedback concerning our services, please contact your Project Manager listed above at 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

3821 Buck Drive
Cortland NY 13045
Phone:(607)753-3403 Fax:(607)753-3415
NY #10795, EPA #NY00935

Microbac Laboratories, Inc.

CHAIN OF CUSTODY

Client Information			Billing/Invoice:			Analysis Requested			Receiving Info (Lab Use Only)		
Name:	Town Of Vestal								Ice:	YES	NO
Address:	701 Vestal PKWY, West Vestal, NY 13850-1363								Cooler:	YES	NO
Contact:	Scott Groats								Sample Temp:	0.9	
Phone:	607-748-7574 Ext: 357								Cooler Seal:	YES	NO
Project:	Quarterly								Pickup:	YES	NO
Quote ID:	PO#:								Dropoff:	C	W
Rush TAT Bus. Days: <2 2-5 5-7 7-10	Date Req.:								Accepted?	YES	NO
Carbon Copy: Yes									Container Material		
Email Results: Yes									Container Size (in Ml)		
Fax Results: Yes									Preservative		
Sample Information			Number of Containers for Analysis Requested			Comments/Field Data					
Description/Location	Date	Time	Initial	Matrix	Type						
1 1-2A Raw	8-18-14	1300	DJB	DW	DW	2					
2 1-2A Finished		1305		DW	G	2					
3 1-3 Raw		1315		DW	G	2					
4 1-3 Finished		1320		DW	G	2					
5 4-2 Raw		1236		DW	G	2					
6 4-2 Finished		1242		DW	G	2					
7 Trip Blank	8-18-14	1500		DW	G	1					
8											

Signature: *Christine Rhodes* Date/Time: 8-19-14/1440

Print Name and Company: Christine Rhodes MLI Cortland NY

Sampled: Deron Biechele/Microbac Cortland NY

Received: *Christine Rhodes* 8/19/14 1440

Received:

Received:

Barcode: J4H0303



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4I0394

Project Name: Volatiles

TOWN OF VESTAL

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 09/30/2014 15:20
Reported: 10/13/2014 14:39

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4I0394-01
Sample Type: Grab

Collection Date: 09/30/14
Collection Time: 12:20
Collected By: Elliott Timm

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Benzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Bromomethane	< 0.0005		0.0005	mg/L		10/06/14 1344	10/06/14 1344	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Chloroethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Chloromethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Cumene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-

Microbac Laboratories, Inc.

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CERTIFICATE OF ANALYSIS

J4I0394

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4I0394-01
Sample Type: Grab

Collection Date: 09/30/14
Collection Time: 12:20
Collected By: Elliott Timm

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Ethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
MTBE	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Naphthalene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
o-Xylene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Styrene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Toluene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		10/03/14 1224	10/03/14 1224	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4I0394

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4I0394-02
Sample Type: Grab

Collection Date: 09/30/14
Collection Time: 12:18
Collected By: Elliott Timm

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Benzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Bromomethane	< 0.0005		0.0005	mg/L		10/06/14 1407	10/06/14 1407	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Chloroethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Chloromethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Cumene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
MTBE	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-

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CERTIFICATE OF ANALYSIS

J4I0394

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4I0394-02
Sample Type: Grab

Collection Date: 09/30/14
Collection Time: 12:18
Collected By: Elliott Timm

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
o-Xylene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Styrene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Toluene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		10/03/14 1248	10/03/14 1248	DN-



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4I0394

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4I0394-03
Sample Type: Grab

Collection Date: 09/30/14
Collection Time: 12:52
Collected By: Elliott Timm

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Benzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Bromomethane	< 0.0005		0.0005	mg/L		10/06/14 1431	10/06/14 1431	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Chloroethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Chloromethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Cumene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
MTBE	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-

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CERTIFICATE OF ANALYSIS

J4I0394

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4I0394-03
Sample Type: Grab

Collection Date: 09/30/14
Collection Time: 12:52
Collected By: Elliott Timm

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
o-Xylene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Styrene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Toluene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		10/03/14 1312	10/03/14 1312	DN-



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CERTIFICATE OF ANALYSIS

J4I0394

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4I0394-04
Sample Type: Grab

Collection Date: 09/30/14
Collection Time: 12:50
Collected By: Elliott Timm

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2								
1,1,1,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,1,1-Trichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,1,2,2-Tetrachloroethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,1,2-Trichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,1-Dichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,1-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,1-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,2,3-Trichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,2,3-Trichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,2,4-Trichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,2,4-Trimethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,2-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,2-Dichloroethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,2-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,3,5-Trimethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,3-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,3-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
1,4-Dichlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
2,2-Dichloropropane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
2-Chlorotoluene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
4-Chlorotoluene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
4-Isopropyltoluene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Benzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Bromobenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Bromochloromethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Bromomethane	< 0.0005		0.0005	mg/L		10/06/14 1455	10/06/14 1455	DN-
Carbon tetrachloride	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Chlorobenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Chloroethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Chloromethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
cis-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
cis-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Cumene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Dibromomethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Dichlorodifluoromethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Ethylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Hexachlorobutadiene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
m,p-Xylene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Methylene chloride	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
MTBE	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-

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CERTIFICATE OF ANALYSIS

J4I0394

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4I0394-04
Sample Type: Grab

Collection Date: 09/30/14
Collection Time: 12:50
Collected By: Elliott Timm

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Analyst
Naphthalene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
n-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
n-Propylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
o-Xylene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
sec-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Styrene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
tert-Butylbenzene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Tetrachloroethene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Toluene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
trans-1,2-Dichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
trans-1,3-Dichloropropene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Trichloroethene	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Trichlorofluoromethane	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Vinyl chloride	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-
Xylenes, Total	< 0.0005		0.0005	mg/L		10/03/14 1336	10/03/14 1336	DN-

Definitions

MCL: Maximum Contamination Level
PQL: Practical Quantitation Limit

Cooler Receipt Log:

Cooler ID:	Default Cooler	Received On Ice (or not required):	Yes
Cooler Temp:	5.20 °C	Preservation Correct (or not required):	Yes
COC/Labels Agree:	Yes	Custody Seals Intact and/or No Evidence of Tampering	Yes
Containers Intact:	Yes		

Report Comments:

In accordance with NYSDOH-ELAP and NELAP, any non-conformance of these regulations are noted directly on the laboratory as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

Jennifer M. Walker

Jennifer Walker
General Manager

Go Green:

Contact your project manager to set up email reporting and invoicing options.

For any feedback concerning our services, please contact your Project Manager listed above at 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

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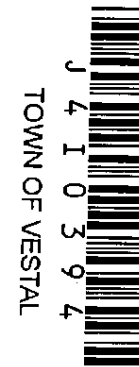
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CHAIN OF CUSTODY

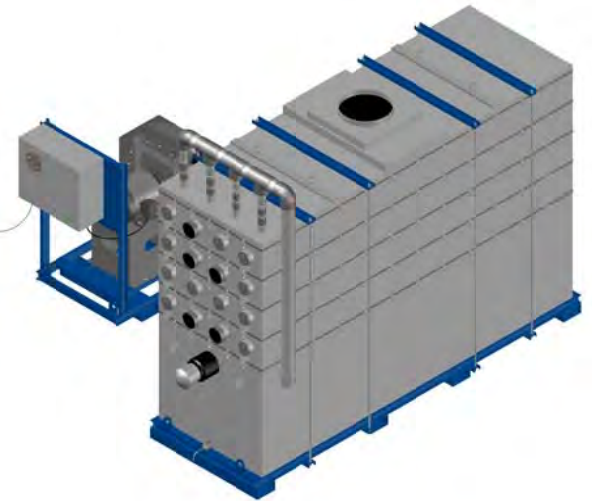
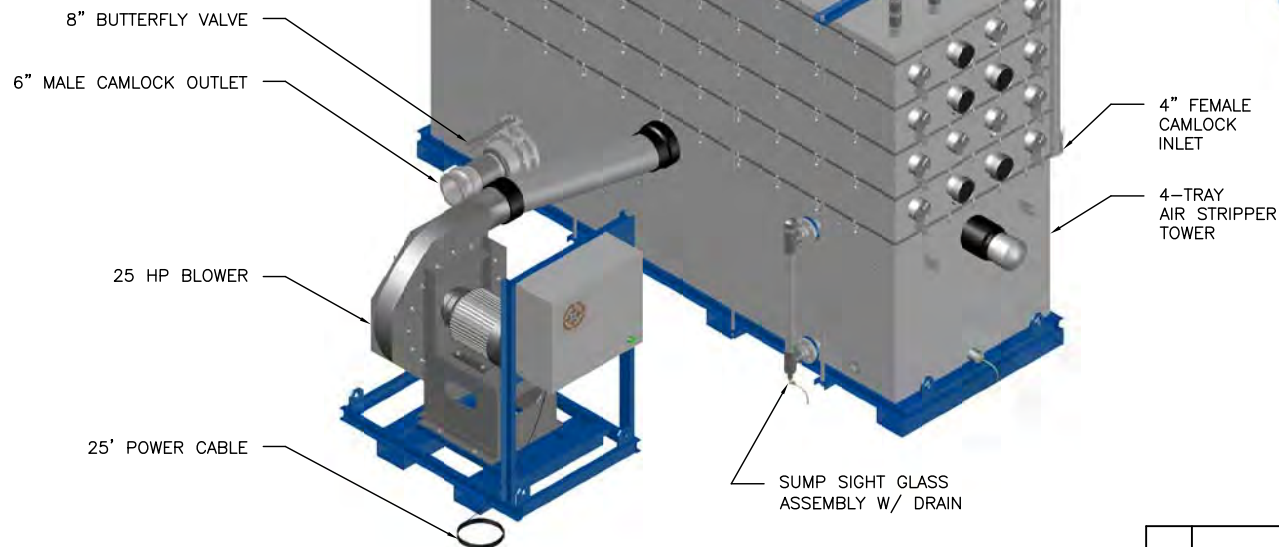
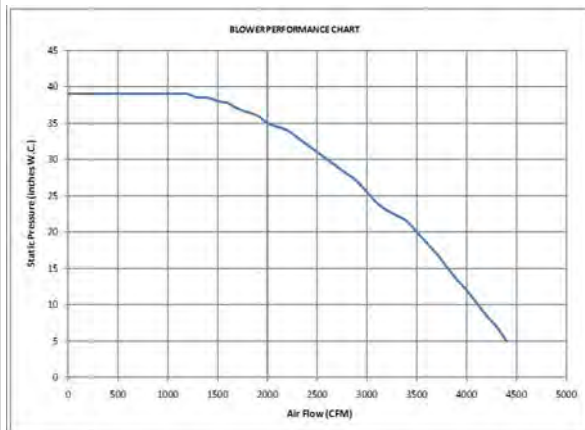
Client Information					Billing/Invoice:		Analysis Requested								Receiving Info (Lab Use Only)			
Name:	Town Of Vestal														Ice:	YES NO		
Address:	701 Vestal PKWY, West														Cooler:	YES NO		
	Vestal, NY 13850-1363														Sample Temp:			
Contact:	Scott Groats														Cooler Seal:	YES NO		
Phone:	607-748-7574 Ext: 357														Pickup:	YES NO		
Project:	Quarterly														Dropoff:	C W		
Quote ID:					PO#:											Accepted?	YES NO	
Rush TAT Bus. Days:	2-5 5-7 7-10				Date Req.:			524.2	524.2								Container Material	
Carbon Copy:	Yes						Glass	Glass								Container Size (In MI)		
Email Results:	Yes						40	40								Preservative		
Fax Results:	Yes						HCL	HCL										
Sample Information					Matrix	Number of Containers for Analysis Requested								Comments/F				
Description/Location	Date	Time	Initial	Type														
1 1-2A Raw	9-30	12:20	ET	DW	2													
				G														
2 1-2A Finished		12:18		DW	2													
				G														
3 1-3 Raw		12:52		DW	2													
				G														
4 1-3 Finished		1250		DW	2													
				G														
5 4-2 Raw				DW	2													
				G														
6 4-2 Finished				DW	2													
				G														
7 Trip Blank				DW														
				G	1													
8																		
Print Name and Company					Signature		Date/Time		Comments									
Sampled: <i>Elvira T. Jimenez</i> Beron Biechels/Microbac Cortland NY					<i>[Signature]</i>		9-30-14 1400											
Received:																		
Received:																		
Received:					<i>[Signature]</i>		9/30/14 1520		5.20C									
Microbac Laboratories (MNY) may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by MNY of the intent to subcontract and are in agreement with this action.																		





Appendix B

Air Stripper Rental Quote



AIR STRIPPING TOWER MECHANICAL SPECIFICATIONS

- LIQUID FLOW RANGE: 8-550 GPM
- NOMINAL AIRFLOW: 2400 CFM
- TRAY DIMENSIONS: 12'-0" X 4'-0" X 1'-0"
- OVERALL DIMENSIONS: 13'-10" X 6'-8" X 10'-3"
- SKID WEIGHT: 5000 LBS
- SUMP HOLDING CAPACITY: 1200 GAL
- AIR INFLUENT CONNECTION: 8"
- INFLUENT CONNECTION: (4X) 2" NPT
- EFFLUENT CONNECTION: 8" FLANGE
- OFF-GAS DISCHARGE OD: $\varnothing 18\frac{5}{8}"$

BLOWER SKID MECHANICAL/ELECTRICAL SPECIFICATIONS

- BLOWER HP: 25 HP
- VOLTAGE: 230/460 VOLTS
- PHASE: 3 PHASE
- REQUIRED OVER CURRENT PROTECTION: 100/50 AMPS
- ACTUAL CURRENT LOAD: 58/29 AMPS

SERVICE WITHIN 25' (PROVIDED BY OTHERS)

- OVERALL DIMENSIONS: 4'-7" X 3'-2" X 5'-6"
- BLOWER OUTLET: 8"
- SKID WEIGHT: 750 LBS

A	TYPICAL		09/02/10
NO.	REVISIONS		DATE
550 GPM AIR STRIPPING TOWER STANDARD EQUIPMENT SPECIFICATION			
SCALE:	NTS	APPROVED BY:	JB
DATE:	09/02/10	DRAWN BY:	RS
 GROUND/WATER TREATMENT & TECHNOLOGY P.O. BOX 1174 DENVER, NJ 07834			
THIS DRAWING IS THE PROPERTY OF GROUND/WATER TREATMENT & TECHNOLOGY, INC			
DWG SIZE:	A	SHEET: 1 OF 1	DRAWING NUMBER: ST-0221-SPC
			A

December 23, 2014

Jeremy Wyckoff
Arcadis U.S., Inc.
855 Route 146, Suite 210
Clifton Park, NY 12065

Via email: Jeremy.wyckoff@arcadis-us.com

**Reference: Proposal – Temporary Air-Stripper System
GWTT Ref # 6053**

Dear Mr. Wyckoff:

Thank you for your inquiry regarding rental treatment equipment designed and supplied by Ground/Water Treatment & Technology, LLC (GWTT). The following is our proposal for rental water treatment equipment designed to treat a maximum of 550 gpm of water generated from existing treatment operations.

Our proposed system is based exclusively on our phone conversation on 12/19/14. Please note that we have not reviewed any detailed specifications, **groundwater** analytical data or discharge permit information, nor have we visited the site prior to submitting this proposal.

Our proposed temporary treatment equipment consists of an air stripper and blower unit as described below. We have also included approximately 20' of inlet piping and 40' of outlet piping for the air stripper system.

In preparing this proposal, we have assumed that dewatering pumps and associated hoses, a source of 480 volt, 3 phase electrical power, lifting equipment during mobilization/demobilization, labor to assist during mobilization/demobilization, and union coverage of any kind **will be provided by others. We can price more of these services as our date of mobilization approaches.**

Proposed Temporary Treatment Equipment - 550 gpm

1. One (1) air stripping system, tray type air stripper, and electric blower. The off-gas from the air stripper will be discharged directly to the atmosphere.
2. Up to 50' of feed wire to the skid.
3. Piping and/or flexible hose on the inlet and outlet of the air stripping system.

Pricing Schedule – Prices do NOT include any applicable sales tax

Mobilization , including: • Shop Preparation, Truck Loading and supply of misc. materials • Truck delivery to the Vestal, NY jobsite • Eight (8) hours of on-site installation supervision by a specially trained, non-Union, GWTT Technician • Eight (8) hours of on-site startup assistance and operator training by a specially trained, non-Union, GWTT Technician	\$ 12,000.00
Demobilization , including: • Eight (8) hours of demobilization supervision by a specially trained, non-Union, GWTT Technician • Return trucking to a GWTT Facility	\$ 6,000.00
Monthly Rental Rate (1 month minimum)	\$ 8,000.00

Optional Items/Services

On-Site Technical Assistance, non-Union GWTT Technician, including service truck and hand tools (if necessary), 7:30 am – 4:00 pm, Monday – Friday	\$ 100.00 per hour, portal to portal
Overtime hours, non-Union GWTT Technician	\$ 125.00 per hour, portal to portal
Additional Materials	\$ Cost + 15%

Exclusions

1. Suitable lifting equipment such as a crane or heavy duty forklift to unload and load the treatment equipment
2. Unloading, installation or assembly of any items delivered to the jobsite
 - A two (2) man crew for approximately one (1) day will be required (by others) during mobilization and for one (1) day during demobilization
3. Supply or installation of piping/hose/fittings from the flow meter to the discharge location
4. Level and stable ground to support the treatment equipment
5. Electrical power supply, generators, and/or electrical distribution panels

- Per NEC, the generator or electrical distribution panel will be required within 25' of the pump skid
- 6. Union craft labor of any kind
- 7. Operation and maintenance of the treatment equipment
- 8. Winterization of the treatment system
- 9. Controls or instrumentation such as autodialers, alarms, horns, etc. except as detailed above
- 10. Permits
- 11. Discharge fees
- 12. PE stamp on any drawings or documents
- 13. Disposal of TSCA regulated substances
- 14. Disposal of spent bag filters and coalescing media
- 15. Disposal of all liquid and solid waste products generated from cleaning the equipment

All rental equipment must be returned to GWTT cleaned and in proper working condition. If the equipment needs to be cleaned at the conclusion of the rental period, GWTT will invoice on a time and material basis based on our current Schedule of Fees. This includes analytical profiling to determine if the waste is hazardous or non-hazardous, labor, materials and equipment such as a pressure washer and Vac truck, and disposal of the waste products. Please note that cleaning and disposal costs can total thousands of dollars and are directly related to the amount and classification of the waste left in the unit.

Thank you for the opportunity to submit this proposal. Invoices will be submitted on a monthly basis and are to be paid within thirty (30) days of receipt without any retainage. The rental period will begin the day the equipment is delivered to the jobsite and all rental charges are invoiced in advance. Interest on unpaid balance will be charged at 1% per month. Quoted prices do not include any applicable sales tax.

This proposal is subject to acceptance within thirty (30) days from its date. Our standard Limited Warranty, Disclaimer, and Limitation of Liability and Remedy statement is attached and is considered part of this proposal. Should you choose to have us sign your form of a Subcontractor Agreement, this proposal, if accepted, will become part of that contract, subject to mutually agreeable terms and conditions.

All proposals for rental equipment are subject to prior sale/rental. Based on our current availability, the proposed rental equipment can be delivered within two (2) to four (4) weeks from your written notice to proceed. If the proposed equipment is not available when you provide GWTT with your written notice to proceed, GWTT will make every effort to provide equipment that is functionally equivalent to that described above with no impact on performance or price.

Please feel free to contact me at 412-216-5785 or at jbenigno@gwttllc.com if you have any questions or if you require any additional information. We are looking forward to working further with you on this project.

Very Truly Yours,
Ground/Water Treatment & Technology, LLC

John Benigno

John Benigno
Appalachia Regional Manager

Proposal Acceptance:

Authorized Signature	
Print Name and Title	
PO/Billing Ref	
Date	