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NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Division of Environmental Remediation

REMEDIAL SYSTEM OPTIMIZATION REPORT – SECOND QUARTER 2016

Vestal Water Supply Site
Vestal, New York (Site No. 7-04-009A)

May 2017

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REMEDIAL SYSTEM OPTIMIZATION REPORT – SECOND QUARTER 2016

Vestal Water Supply Site

Site No. 7-04-009A

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May 10, 2017

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1 INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) issued a Work Assignment (# D004443-4) to Arcadis CE, Inc. (Arcadis) 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 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.

This Quarterly Report has been prepared to summarize the April 2016 through June 2016 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. These data are summarized in the Draft Focused Feasibility Study (FFS), which was submitted to the NYSDEC on June 24, 2015.

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 of at least 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

As recommended in the 4th quarter 2014 RSO Report, groundwater samples were collected from a revised sample list (Table 2-1) which was approved by the NYSDEC on March 19, 2015. Monitoring wells were selected to focus on plume migration and distribution on the north side of NYS Route 17 including wells surrounding the Town of Vestal water supply wells 1-2A and 1-3 and Well 1-1. (Figure 2-2). 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. The USEPA ERT monitoring wells on the ECO International property and Well 1-1A are not included on the revised sample list (discussed above) and were not sampled during this event.

2.1.1 Water Level Data

Groundwater levels were measured on June 1, 2016 using an oil-water interface probe. As indicated in Section 1, the Well 1-1A treatment plant continues 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 2-2. As shown in Table 2-2, light non-aqueous phase liquid (LNAPL) was detected in monitoring well ERT-1S (0.58 ft.) during the June 1, 2016 gauging event. Based on gauging data presented in the 2012 Conceptual Site Model (Lockheed Martin, 2012), LNAPL has previously been identified in ERT-1S. Monitoring well ERT-IS, as well as the surrounding ERT monitoring wells, will continue to be monitored during the next quarter.

The June 1, 2016 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 June 2016 Potentiometric Maps (June 1, 2016)

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 generally north to northeast, toward 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 June 2016 Groundwater Sampling

On June 30, 2016 groundwater samples were collected using PDBs that were deployed on June 1, 2016 in the wells identified on Table 2-1. Former treatment system Well 1-1 was also included in accordance with the fourth quarter 2014 RSO Report recommendations and subsequent NYSDEC approval on March 2015. The USEPA ERT monitoring wells (Figure 2-1) on the ECO International property (the source area) are not part of the sampling program. Extraction Well 1-1A was sampled during the baseline event, but since the shutdown of the Well-1A treatment facility a sample is not able to be collected from this well.

2.1.2.1 June 2016 Groundwater Sampling Results

Groundwater results from the June 2016 groundwater sampling event are provided in Table 2-3. The VOCs measured at the highest concentrations were benzene, 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, during the June groundwater sampling event are presented on Figures 2-5, 2-6, 2-7, and 2-8, respectively.

As shown in Figure 2-5 and Table 2-3, VOCs were detected in the following four wells that are screened in the shallow groundwater zone; 4009-9, 4009-10, 4009-16A, and 4009-30A. Benzene was the only VOC detected in monitoring wells 4009-10, 4009-16A, and 4009-30A. The benzene concentration in the sample from monitoring well 4009-10 slightly exceeded the NYSDEC Class GA groundwater standard. In the sample collected from monitoring well 4009-9, 1-DCA and TCE were the only VOCs detected and cis-1,2 DCE was the only VOC exceeding the NYSDEC Class GA Groundwater Standard. VOCs were not detected in the shallow groundwater zone monitoring wells 4009-11A and 4009-13A during the June 2016 sampling event. The total VOCs measured at each of the shallow monitoring wells is as follows; 4009-9 (22.04 µg/L), 4009-10 (1.9 µg/L), 4009-16A (0.49 µg/L), and 4009-30A (0.43 µg/L).

As shown on Figure 2-6 and Table 2-3, the highest concentrations of VOCs are in the intermediate groundwater zone, down-gradient of the source area (ECO International property). The highest VOC concentrations in groundwater samples collected during the June sampling event were from well 4009-29I. The VOC concentrations in the intermediate groundwater zone ranged from 3.49 µg/L at monitoring well 4009-27I to the maximum concentration of total VOCs in groundwater sample collected from 4009-29I (2,174 µg/L).

The following ten monitoring wells screened in the deep groundwater monitoring zone contained concentrations of VOCs that exceeded NYSDEC Class GA Groundwater Standards; 4009-11, 4009-12, 4009-13, 4009-14, 4009-15, 4009-16, 4009-21, 4009-22, 4009-29D, and Well 1-1 (Figure 2-7 and Table

2-3). Benzene (discussed below) was the only VOC exceeding the NYSDEC Class GA Groundwater Standard of 1.0 µg/L in seven of the ten monitoring wells listed above, with concentrations ranging from 1.3 µg/L (4009-22) to 21 µg/L (4009-21). The total VOCs measured in the remaining three deep monitoring wells is as follows; 4009-11 (98.14 µg/L), 4009-29D (38.0 µg/L), and Well 1-1 (336 µg/L).

Figure 2-8 shows the plume under the revised sample list. As shown on Figure 2-8, the highest groundwater concentrations were detected in the 4009-29 well cluster. The area of highest concentrations extends slightly southward to the 4009-27 cluster, and to the north and west to 4009-11 and Well 1-1. However, based on previous sampling results, the elevated groundwater concentrations at these locations would only be representative of the tail of the groundwater plume. Based on the horizontal and vertical distribution of VOCs, it appears that the long-term pumping at extraction Wells 1-1 and replacement Well 1-1A has 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.

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 source area monitoring wells and Well 1-1A since the baseline sampling event, as well as the revised sampling list which concentrates primarily on the plume migration on the north side of NYS Route 17. The concentration fluctuations in monitoring wells 4009-12 and 4009-11 also influences in the plume distribution figures. Historically the concentrations in samples from monitoring wells 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 June 2016 sampling event are generally consistent with the range of results reported during the last two years. Wells 4009-11, 4009-14, and 4009-21 were the only monitoring wells with a relatively higher concentration of total VOCs than previous results. The VOC concentrations in monitoring well 4009-11 have generally increased since 2014 and more analytes exceeded the NYSDEC Class GA groundwater standard, including 1,1,1-TCA, 1,1-DCA, cis-1,2-DCE, and vinyl chloride during the 2016 second quarter sampling event. Benzene was the only VOC that was detected above the standard in the groundwater samples from monitoring wells 4009-14 and 4009-21. The benzene concentration has increased in concentration since 2014 in both of these monitoring wells.

Concentrations of VOCs in samples from the monitoring wells in the vicinity of the Town of Vestal's water supply wells 1-2A and 1-3 (monitoring wells 4009-16/16A, 4009-18, 4009-19, 4009-21, 4009-30/30A) are generally consistent with the previous sampling events, with the exception of 4009-21 as noted above. The concentration of VOCs in monitoring wells 4009-18, 4009-19, 4009-16A, and 4009-30A were non-detect, with the exception of an estimated concentration of 1,1,1 TCA (0.83 J µg/L) in 4009-18 and estimated concentrations of benzene in 4009-16A (0.49J µg/L) and 4009-30A (0.43 J µg/L). All three detections were less than their respective NYSDEC Class GA Standards (5.0 µg/L and 1.0 µg/L). A concentration of 1,1-DCA (0.65 µg/L) and an estimated concentration of benzene (0.44 J µg/L) were detected less than their respective standards (5.0 µg/L and 1.0 µg/L) in the sample collected from 4009-30. The concentration of benzene was detected greater than the NYSDEC Class GA Standard in monitoring well 4009-16 (8.4 µg/L). Benzene has not been detected greater than the standard since the

August 2014 sampling event in 4009-16. Concentration trends will continue to be monitored during the next quarter.

Benzene concentrations have increased in the central portion of the study area over the past two years including monitoring wells 4009-12, 4009-14, 4009-15, 4009-16, and 4009-21. During the June 2016 sampling event, benzene concentrations were detected in the following shallow monitoring wells; 4009-10 (1.9 µg/L), 4009-16A (0.49 J µg/L), and 4009-30A (0.43 J µg/L), in the intermediate groundwater monitoring zone at monitoring well 4009-27I (0.95 J µg/L), and the deep monitoring wells; 4009-12 (7.5 µg/L), 4009-13 (2.4 µg/L), 4009-14 (14 µg/L), 4009-15 (8.5 µg/L), 4009-16 (8.4 µg/L), 4009-21 (21 µg/L), 4009-22 (1.3 µg/L), and 4009-30 (0.44 J µg/L). Benzene concentrations in sample from eight of the twelve wells listed above exceeded the NYSDEC Class GA Groundwater Standard of 1.0 µg/L for benzene (Figures 2-9 through 2-12).

2.1.3 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 April 20, 2016, May 20, 2016, and June 22, 2016. Pre-treatment groundwater samples were also collected by Arcadis from the Town of Vestal water supply wells 1-2A and 1-3 on April 22, 2016, May 23, 2016, and June 21, 2016. 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.

VOCs associated with contamination from the source area were not 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 2-4. Laboratory analytical reporting forms are provided in Appendix A.

3 RECOMMENDATIONS

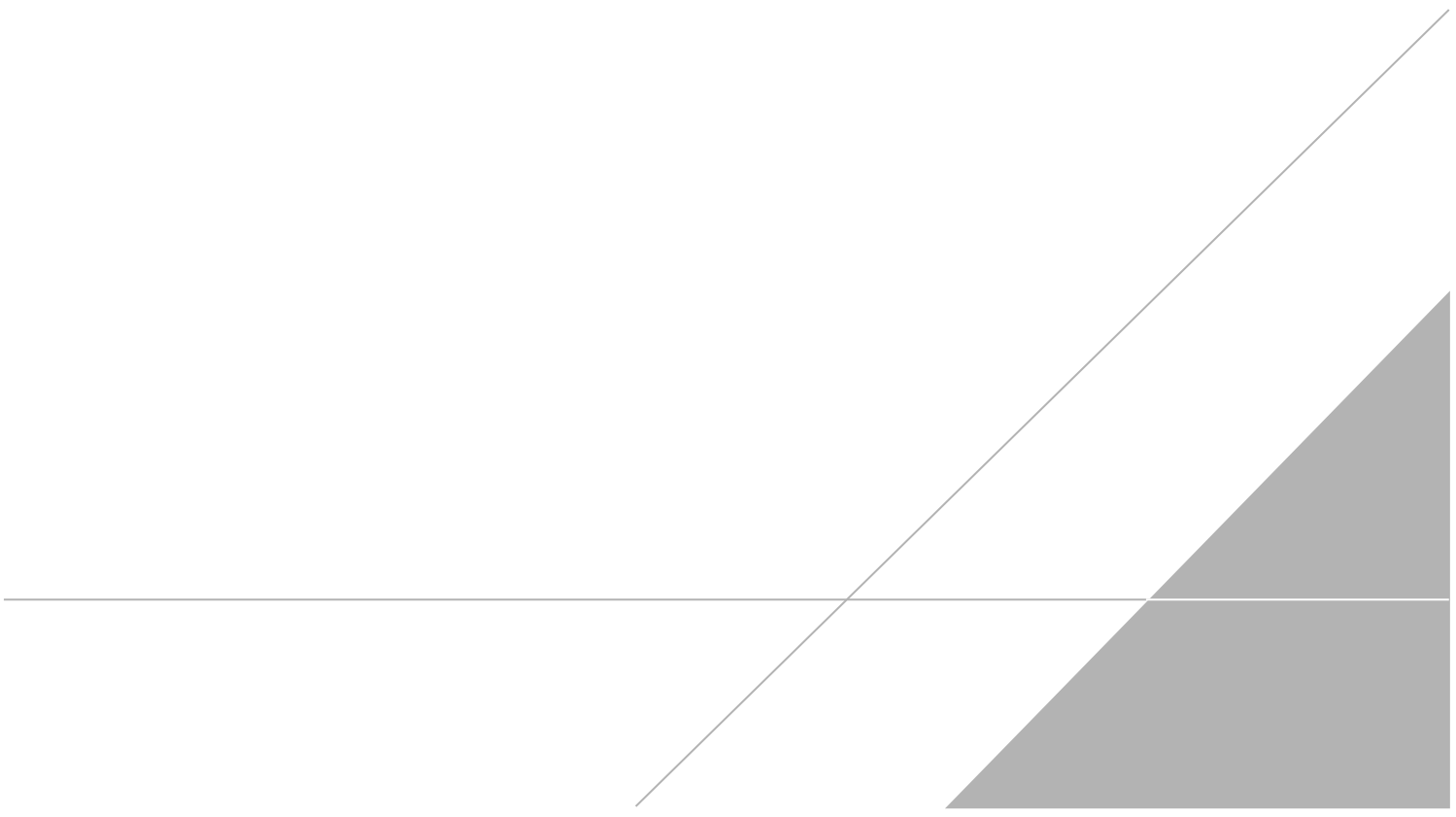
Town of Vestal Well 1-2A and Well 1-3 should continue to be sampled on a monthly basis to supplement the Town's sampling program at least until the final remedies for OU1 and OU2 are implemented. In addition, quarterly groundwater monitoring should continue at the current monitoring locations while the Well 1-1A treatment plant is shut down to evaluate groundwater contaminant distribution over time.

4 ACTIVITIES FOR NEXT QUARTER

Scheduled activities for the next quarter are summarized below.

- Monthly post shutdown sampling at Town of Vestal Wells 1-2A and 1-3.
- Quarterly groundwater sampling (September 2016).

TABLES



WELL I.D.	2016 Quarterly Monitoring Locatons
4009-9	x
4009-10	x
4009-11	x
4009-11A	x
4009-12	x
4009-13	x
4009-13A	x
4009-14	x
4009-15	x
4009-16	x
4009-16A	x
4009-18	x
4009-19	x
4009-21	x
4009-22	x
4009-27S	x
4009-27I	x
4009-27D	x
4009-28	x
4009-29S	x
4009-29I	x
4009-29D	x
4009-30	x
4009-30A	x
WELL 1-1	x

Table 2-2 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

WELL I.D.	Top of Riser (ft AMSL)		2/19/2014			3/17/2014			5/12/2014			8/11/2014			11/24/2014		
			DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	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	7.26	NP	824.72	7.75	NP	824.23	7.80	NP	824.18
4009-2	827.78		18.16	NP	809.62	17.96	NP	809.82	17.90	NP	809.88	19.77	NP	808.01	20.22	NP	807.56
4009-3	823.47		16.92	NP	806.55	14.52	NP	808.95	15.10	NP	808.37	17.94	NP	805.53	17.23	NP	806.24
4009-4	822.22		11.87	NP	810.35	10.64	NP	811.58	10.80	NP	811.42	13.87	NP	808.35	13.65	NP	808.57
4009-5	824.36		18.47	NP	805.89	16.23	NP	808.13	17.70	NP	806.66	21.94	NP	802.42	18.85	NP	805.51
4009-6	827.73		20.88	NP	806.85	19.38	NP	808.35	19.50	NP	808.23	21.80	NP	805.93	21.73	NP	806.00
4009-7	824.27		18.76	NP	805.51	16.28	NP	807.99	16.91	NP	807.36	20.22	NP	804.05	19.34	NP	804.93
4009-8	824.52		19.69	NP	804.83	13.28	NP	811.24	17.60	NP	806.92	20.96	NP	803.56	20.24	NP	804.28
4009-9	825.05		20.36	NP	804.69	18.00	NP	807.05	18.82	NP	806.23	21.84	NP	803.21	21.28	NP	803.77
4009-10	831.31		26.44	NP	804.87	24.28	NP	807.03	24.95	NP	806.36	27.88	NP	803.43	27.43	NP	803.88
4009-11	830.06		26.95	NP	803.11	23.75	NP	806.31	24.89	NP	805.17	28.36	NP	801.70	26.51	NP	803.55
4009-11A	830.80		15.22	NP	815.58	14.78	NP	816.02	14.56	NP	816.24	16.69	NP	814.11	20.43	NP	810.37
4009-12	823.34		18.80	NP	804.54	16.68	NP	806.66	17.52	NP	805.82	20.90	NP	802.44	19.22	NP	804.12
4009-12A	823.80		20.21	NP	803.59	16.60	NP	807.20	17.98	NP	805.82	21.35	NP	802.45	20.05	NP	803.75
4009-13	816.28		12.31	NP	803.97	8.97	NP	807.31	10.42	NP	805.86	13.60	NP	802.68	12.07	NP	804.21
4009-13A	816.17		11.74	NP	804.43	8.72	NP	807.45	9.94	NP	806.23	13.00	NP	803.17	11.93	NP	804.24
4009-14	820.71		16.62	NP	804.09	13.43	NP	807.28	15.36	NP	805.35	18.07	NP	802.64	16.57	NP	804.14
4009-15	826.54		22.63	NP	803.91	19.35	NP	807.19	11.93	NP	814.61	24.18	NP	802.36	22.53	NP	804.01
4009-16	826.72		22.68	NP	804.04	19.50	NP	807.22	21.12	NP	805.60	24.30	NP	802.42	22.70	NP	804.02
4009-16A	826.84		22.45	NP	804.39	19.45	NP	807.39	21.22	NP	805.62	24.31	NP	802.53	22.72	NP	804.12
4009-17	820.53		26.12	NP	794.41	12.95	NP	807.58	14.52	NP	806.01	17.66	NP	802.87	17.18	NP	803.35
4009-18	834.78		30.59	NP	804.19	27.61	NP	807.17	29.38	NP	805.40	32.23	NP	802.55	30.73	NP	804.05
4009-19	824.94		20.79	NP	804.15	17.78	NP	807.16	19.54	NP	805.40	22.42	NP	802.52	20.91	NP	804.03
4009-20	822.90		18.45	NP	804.45	15.60	NP	807.30	17.82	NP	805.08	20.25	NP	802.65	18.69	NP	804.21
4009-21	825.02	**	18.90	NP	804.20	15.90	NP	807.20	17.65	NP	805.45	20.55	NP	802.55	19.03	NP	804.07
4009-22	817.40		13.06	NP	804.34	9.85	NP	807.55	11.50	NP	805.90	14.03	NP	803.37	13.27	NP	804.13
4009-23S	824.48		16.65	NP	807.83	15.48	NP	809.00	14.88	NP	809.60	17.74	NP	806.74	18.33	NP	806.15
4009-23D	824.39		18.93	NP	805.46	16.37	NP	808.02	17.15	NP	807.24	20.50	NP	803.89	19.23	NP	805.16
4009-24	822.32		15.52	NP	806.80	13.38	NP	808.94	13.99	NP	808.33	16.94	NP	805.38	16.15	NP	806.17
4009-25S	823.61		14.77	NP	808.84	13.84	NP	809.77	13.95	NP	809.66	15.87	NP	807.74	16.00	NP	807.61
4009-25D	823.57		14.98	NP	808.59	13.70	NP	809.87	13.78	NP	809.79	15.85	NP	807.72	16.00	NP	807.57
4009-26	824.31		19.36	NP	804.95	16.55	NP	807.76	17.39	NP	806.92	20.62	NP	803.69	19.92	NP	804.39
4009-27S	826.19		21.97	NP	804.22	18.80	NP	807.39	20.02	NP	806.17	23.29	NP	802.90	22.02	NP	804.17
4009-27I	826.03		21.93	NP	804.10	18.63	NP	807.40	19.98	NP	806.05	23.18	NP	802.85	21.85	NP	804.18
4009-27D	825.87		21.90	NP	803.97	18.43	NP	807.44	19.88	NP	805.99	23.02	NP	802.85	21.65	NP	804.22
4009-28	821.59		17.71	NP	803.88	14.45	NP	807.14	16.00	NP	805.59	19.23	NP	802.36	17.65	NP	803.94
4009-29S	825.77		21.75	NP	804.02	18.42	NP	807.35	19.75	NP	806.02	23.03	NP	802.74	21.60	NP	804.17
4009-29I	825.68		21.94	NP	803.74	18.51	NP	807.17	19.86	NP	805.82	23.22	NP	802.46	21.61	NP	804.07
4009-29D	825.67		21.92	NP	803.75	18.54	NP	807.13	19.80	NP	805.87	23.18	NP	802.49	21.60	NP	804.07
4009-30	827.50	**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4009-30A	826.69	**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WELL 1-1	832.36		29.09	NP	803.27	25.23	NP	807.13	25.50	NP	806.86	30.00	NP	802.36	28.33	NP	804.03
WELL 1-1A	831.13		24.93	NP	806.20	24.13	NP	807.00	26.72	NP	804.41	23.03	NP	808.10	27.10	NP	804.03
ERT-1S	824.01		12.65	11.72	810.57	11.83	10.88	811.37	11.53	10.62	811.71	13.96	12.95	809.19	14.96	14.02	808.25
ERT-1I	824.03		13.45	NP	810.58	12.43	NP	811.60	12.42	NP	811.61	15.17	NP	808.86	15.23	NP	808.80
ERT-1D	823.88		13.50	13.49	810.38	12.50	NP	811.38	12.42	NP	811.46	15.29	NP	808.59	15.18	NP	808.70
ERT-2S	824.67	*	14.19	NP	810.48	13.72	NP	810.95	13.00	NP	811.67	15.66	NP	809.01	15.81	NP	808.86
ERT-2I	824.54	*	14.07	NP	810.47	13.08	NP	811.46	13.06	NP	811.48	15.60	NP	808.94	15.71	15.70	808.83
ERT-2D	824.44	*	12.98	NP	811.46	12.88	NP	811.56	12.56	12.55	811.88	14.97	14.96	809.46	15.28	NP	809.16
ERT-3S	824.38		13.29	NP	811.09	12.94	NP	811.44	11.83	NP	812.55	14.14	NP	810.24	15.09	NP	809.29
ERT-3I	824.23		14.21	NP	810.02	13.23	NP	811.00	13.20	NP	811.03	15.73	NP	808.50	15.85	NP	808.38
ERT-3D	824.20		14.95	NP	809.25	14.62	NP	809.58	13.78	NP	810.42	16.72	16.71	807.47	16.20	NP	808.00
ERT-4S	823.54		13.32	NP	810.22	12.58	NP	810.96	12.85	NP	810.69	Dry	NP	--	Dry	NP	--
ERT-4I	823.49		14.23	NP	809.26	13.37	NP	810.12	13.42	NP	810.07	5.58	NP	817.91	15.70	NP	807.79
ERT-4D	823.63		14.55	NP	809.08	13.56	NP	810.07	13.63	NP	810.00	15.70	NP	807.93	15.90	NP	807.73
ERT-5	824.64	*	NM	NM	NM	12.34	NP	812.30	12.40	NP	812.24	15.28	NP	809.36	14.93	NP	809.71
ERT-6	824.74	*	14.25	NP	810.49	13.05	NP	811.69	13.15	13.14	811.59	16.03	NP	808.71	15.64	NP	809.10
ERT-7	823.96		15.38	NP	808.58	14.25	NP	809.71	14.55	NP	809.41	17.61	NP	806.35	16.80	NP	807.16
ERT-8	824.69		16.70	NP	807.99	15.13	NP	809.56	15.50	NP	809.19	18.57	NP	806.12	17.66	NP	807.03

Notes:
fbgs - feet below ground surface
famsl - feet above mean sea level
* - Elevation data from Conceptual Site Model (Lockheed Martin, 2012).
** - Elevation data remeasured on 4/1/15 after well repairs
NM - Not measured
NP - No product / LNAPL
Corrected based on assumed LNAPL density of 0.85 g/cm3

Table 2-2 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

WELL I.D.	Top of Riser (ft AMSL)	4/1/2015			7/13/2015			10/12/2015			3/28/2016			6/1/2016		
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)
4009-1	831.98	7.64	NP	824.34	6.89	NP	825.09	8.03	NP	823.95	7.41	NP	824.57	6.50	NP	825.48
4009-2	827.78	19.22	NP	808.56	18.11	NP	809.67	20.64	NP	807.14	18.93	NP	808.85	19.48	NP	808.30
4009-3	823.47	15.90	NP	807.57	14.87	NP	808.60	18.64	NP	804.83	16.3	NP	807.17	17.33	NP	806.14
4009-4	822.22	12.22	NP	810.00	10.80	NP	811.42	14.43	NP	807.79	12.03	NP	810.19	12.84	NP	809.38
4009-5	824.36	17.80	NP	806.56	16.77	NP	807.59	20.69	NP	803.67	18.65	NP	805.71	19.85	NP	804.51
4009-6	827.73	20.48	NP	807.25	19.23	NP	808.50	22.41	NP	805.32	20.57	NP	807.16	21.47	NP	806.26
4009-7	824.27	17.74	NP	806.53	16.53	NP	807.74	21.17	NP	803.10	18.35	NP	805.92	19.69	NP	804.58
4009-8	824.52	18.26	NP	806.26	17.05	NP	807.47	22.03	NP	802.49	18.97	NP	805.55	20.46	NP	804.06
4009-9	825.05	19.23	NP	805.82	18.02	NP	807.03	22.83	NP	802.22	19.84	NP	805.21	21.43	NP	803.62
4009-10	831.31	25.48	NP	805.83	24.16	NP	807.15	28.84	NP	802.47	20.95	NP	810.36	27.44	NP	803.87
4009-11	830.06	24.89	NP	805.17	24.72	NP	805.34	28.80	NP	801.26	26.25	NP	803.81	27.69	NP	802.37
4009-11A	830.80	14.94	NP	815.86	14.77	NP	816.03	16.97	NP	813.83	16.05	NP	814.75	16.60	NP	814.20
4009-12	823.34	17.45	NP	805.89	17.34	NP	806.00	21.56	NP	801.78	18.9	NP	804.44	20.26	NP	803.08
4009-12A	823.80	17.91	NP	805.89	17.79	NP	806.01	22.03	NP	801.77	19.35	NP	804.45	20.70	NP	803.10
4009-13	816.28	10.37	NP	805.91	10.09	NP	806.19	14.29	NP	801.99	11.68	NP	804.60	12.98	NP	803.30
4009-13A	816.17	10.09	NP	806.08	9.38	NP	806.79	13.97	NP	802.20	11.12	NP	805.05	12.51	NP	803.66
4009-14	820.71	14.80	NP	805.91	14.66	NP	806.05	18.73	NP	801.98	16.23	NP	804.48	17.47	NP	803.24
4009-15	826.54	20.76	NP	805.78	20.85	NP	805.69	24.79	NP	801.75	22.21	NP	804.33	23.48	NP	803.06
4009-16	826.72	20.93	NP	805.79	26.87	NP	799.85	25.01	NP	801.71	22.38	NP	804.34	23.62	NP	803.10
4009-16A	826.84	20.94	NP	805.90	27.03	NP	799.81	25.18	NP	801.66	22.51	NP	804.33	23.49	NP	803.35
4009-17	820.53	14.55	NP	805.98	14.25	NP	806.28	18.50	NP	802.03	15.86	NP	804.67	16.98	NP	803.55
4009-18	834.78	26.51	NP	808.27	29.02	NP	805.76	33.04	NP	801.74	30.65	NP	804.13	31.59	NP	803.19
4009-19	824.94	19.15	NP	805.79	19.19	NP	805.75	23.31	NP	801.63	20.99	NP	803.95	21.78	NP	803.16
4009-20	822.90	17.04	NP	805.86	17.29	NP	805.61	21.29	NP	801.61	18.56	NP	804.34	19.55	NP	803.35
4009-21	825.02 **	19.33	NP	805.69	19.41	NP	805.61	23.98	NP	801.04	22.03	NP	802.99	21.98	NP	803.04
4009-22	817.40	11.55	NP	805.85	9.90	NP	807.50	13.28	NP	804.12	11.42	NP	805.98	11.95	NP	805.45
4009-23S	824.48	17.02	NP	807.46	14.17	NP	810.31	19.10	NP	805.38	16.71	NP	807.77	17.56	NP	806.92
4009-23D	824.39	17.93	NP	806.46	16.90	NP	807.49	19.13	NP	805.26	18.64	NP	805.75	19.95	NP	804.44
4009-24	822.32	16.19	NP	806.13	13.82	NP	808.50	NM	NM	NM	15.20	NP	807.12	16.35	NP	805.97
4009-25S	823.61	14.81	NP	808.80	13.73	NP	809.88	16.72	NP	806.89	14.68	NP	808.93	15.35	NP	808.26
4009-25D	823.57	14.75	NP	808.82	13.65	NP	809.92	16.70	NP	806.87	14.64	NP	808.93	15.32	NP	808.25
4009-26	824.31	17.94	NP	806.37	16.75	NP	807.56	21.69	NP	802.62	18.68	NP	805.63	20.12	NP	804.19
4009-27S	826.19	20.27	NP	805.92	19.56	NP	806.63	24.14	NP	802.05	21.30	NP	804.89	22.72	NP	803.47
4009-27I	826.03	20.03	NP	806.00	19.58	NP	806.45	23.98	NP	802.05	21.23	NP	804.80	22.61	NP	803.42
4009-27D	825.87	19.86	NP	806.01	19.41	NP	806.46	23.80	NP	802.07	21.05	NP	804.82	22.42	NP	803.45
4009-28	821.59	15.80	NP	805.79	15.72	NP	805.87	19.85	NP	801.74	17.3	NP	804.29	18.58	NP	803.01
4009-29S	825.77	19.80	NP	805.97	19.40	NP	806.37	23.83	NP	801.94	21.11	NP	804.66	22.43	NP	803.34
4009-29I	825.68	19.89	NP	805.79	19.63	NP	806.05	23.91	NP	801.77	21.27	NP	804.41	22.55	NP	803.13
4009-29D	825.67	19.86	NP	805.81	19.81	NP	805.86	23.89	NP	801.78	21.19	NP	804.48	22.55	NP	803.12
4009-30	827.50 **	21.32	NP	806.18	20.81	NP	806.69	25.81	NP	801.69	22.38	NP	805.12	24.26	NP	803.24
4009-30A	826.69 **	20.82	NP	805.87	20.97	NP	805.72	25.12	NP	801.57	22.41	NP	804.28	23.55	NP	803.14
WELL 1-1	832.36	26.56	NP	805.80	26.46	NP	805.90	NM	NM	NM	NM	NM	NM	NM	NM	NM
WELL 1-1A	831.13	24.21	NP	806.92	25.37	NP	805.76	29.42	NP	801.71	25.15	NP	805.98	28.35	NP	802.78
ERT-1S	824.01	13.36	12.48	809.90	9.55	8.60	813.65	13.45	NP	810.56	12.73	12.10	810.74	12.68	12.10	810.84
ERT-1I	824.03	13.83	NP	810.20	12.46	NP	811.57	15.93	NP	808.10	13.60	NP	810.43	14.35	NP	809.68
ERT-1D	823.88	13.80	NP	810.08	10.80	10.72	813.01	15.97	NP	807.91	13.69	NP	810.19	14.49	NP	809.39
ERT-2S	824.67 *	14.50	NP	810.17	13.11	NP	811.56	16.46	NP	808.21	14.25	NP	810.42	14.97	NP	809.70
ERT-2I	824.54 *	14.36	NP	810.18	13.08	NP	811.46	16.35	NP	808.19	14.15	NP	810.39	14.88	NP	809.66
ERT-2D	824.44 *	14.21	NP	810.23	12.80	NP	811.64	16.39	NP	808.05	11.78	NP	812.66	13.54	NP	810.90
ERT-3S	824.38	13.94	NP	810.44	11.21	NP	813.17	15.40	NP	808.98	13.39	NP	810.99	NM	NM	NM
ERT-3I	824.23	14.53	NP	809.70	13.21	NP	811.02	16.57	NP	807.66	14.33	NP	809.90	NM	NM	NM
ERT-3D	824.20	15.01	NP	809.19	13.75	NP	810.45	17.22	NP	806.98	15.13	NP	809.07	NM	NM	NM
ERT-4S	823.54	13.18	NP	810.36	11.81	NP	811.73	Dry	NP	--	NM	NM	NM	Dry	NP	--
ERT-4I	823.49	14.46	NP	809.03	13.31	13.30	810.17	16.38	NP	807.11	NM	NM	NM	14.99	NP	808.50
ERT-4D	823.63	14.64	NP	808.99	13.51	13.49	810.10	16.57	NP	807.06	NM	NM	NM	15.19	NP	808.44
ERT-5	824.64 *	13.68	NP	810.96	12.45	NP	812.19	15.81	NP	808.83	13.70	NP	810.94	14.56	NP	810.08
ERT-6	824.74 *	14.39	NP	810.35	13.13	NP	811.61	16.64	NP	808.10	14.47	NP	810.27	15.35	NP	809.39
ERT-7	823.96	15.68	NP	808.28	14.45	NP	809.51	18.00	NP	805.96	15.98	NP	807.98	17.00	NP	806.96
ERT-8	824.69	16.56	NP	808.13	15.43	NP	809.26	18.96	NP	805.73	16.95	NP	807.74	17.95	NP	806.74

Notes:
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Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
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	4009-1 12/9/2014 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	4009-2 12/9/2014 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	4009-3 12/9/2014 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	4009-4 12/9/2014 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
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.6 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UUJ
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.1	1.3	0.9 J	1.5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1-Dichloroethane	5	1.0 U	0.5 J	1.0 UJ	0.37 J	2.7	2.3	2.6 J	3.4	**6.3**	**6.6**	**7.5 J**	4.8	1.0 U	0.4 J	1.0 UJ	1.0 U	2.7	3.0 J	1.3 J
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.3	1.1	1.1 J	0.87 J	1.0 U	1.0 U	1.0 UJ	1.0 U	2.2	1.8 J	1.0 UJ
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	5.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
2-Butanone (MEK)	50	1.3 J	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	1.5 J	10 U	10 UJ	10 U	10 U	50 U	10 UJ
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	25 U	5.0 UJ
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	25 U	5.0 UJ
Acetone	50*	10	4.2 J	12 J	10 U	7.2 J	3.5 J	9.9 J	10 U	10	4.6 J	12 J	10 U	12	3.4 J	8.0 J	10 U	11	50 U	11 J
Benzene	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	**3.2**	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	**3.6 J**	1.0 U	1.0 U	5.0 U	**1.7 J**
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloromethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
cis-1,2-Dichloroethene	5	1.6	2.0	2.2 J	2.4	**14**	**12**	**9.0 J**	**6.9**	**77**	**65**	**63 J**	**48**	1.0 U	**79**	1.3 J	0.45 J	**250 D**	**280**	**170 J**
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10.0 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	13 U	2.5 UJ
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	4.6 J	1.0 UJ
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Styrene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Tetrachloroethene	5	1.4	0.4 J	1.7 J	0.84 J*	1.0 U	1.0 U	1.0 UJ	0.51 J*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Toluene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.6 J	1.0 U	1.0 U	5.0 U	1.0 UJ
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	0.46 J	1.0 U	1.0 U	1.0 UJ	0.45 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0	5.0 U	1.0 UJ
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Trichloroethene	5	1.4	1.1	1.7 J	1.5	2.9	2.7	2.3 J	2.5	**26**	**15**	**12 J**	**11**	1.0 U	1.5	1.0 UJ	1.0 U	**21**	**19**	**12 J**
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Vinyl chloride	2	1.0 U	1.0 U	1.0 UJ	1.0 U	**6.9**	1.3	**5.1 J**	**6.5**	**11**	**13**	**33 J**	**16**	1.0 U	1.0 U	1.0 UJ	1.0 U	**39**	**41**	**14 J**
Xylenes, Total		2.0 U	2 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	10 U	2.0 UJ
Total VOCs		15.7	8.15	17.6	5.11	34.8	26.3	29.8	21.8	132	105	130	81.1	13.5	84.3	13.5	0.45	327	349	210
Total VOCs (w/o Acteone or Methlyene Chloride)		5.70	3.95	5.60	5.11	27.6	22.8	19.9	21.8	122	101	118	81.1	1.50	80.9	5.50	0.45	316	345	199

Notes

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- 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

M - Manual integrated compound

* - Laboratory control sample / duplicate exceeds control limits.

[1]-This is a duplicate sample from 4009-12

[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC	4009-5	4009-6	4009-6	4009-6	4009-6	4009-7	4009-7	4009-7	4009-7	4009-8	4009-8	4009-8	4009-8	4009-9	4009-9	4009-9	4009-9	4009-9	4009-9
Sampling Date	GA	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015
Groundwater Monitoring Zone	Standard	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	**790 D**	**1000**	**2900 DJ**	**1500**	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	14	13 J	20 UDJ	17 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	0.5 J	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.7 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 J	0.48 J	1.0 UJ	3.3 U	**40**	**62**	**72 DJ**	**58**	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.29 J	1.0 UJ	3.3 U	**31**	**120**	**94 DJ**	**120**	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		13 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	17 U	1.0 U	20 U	20 UDJ	130 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	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	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	6.7 U	1.0 U	20 U	20 UDJ	50 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	25 U	10 U	10 U	10 UJ	10 U	10 U	1.4 J	10 UJ	33 U	10 U	200 U	200 UDJ	250 U	1.4 J	10 U	10 UJ	10 U	10 U	10.0 U
2-Hexanone	50*	25 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	100 U	100 UDJ	250 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		25 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	100 U	100 UDJ	250 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U
Acetone	50*	25 U	8.5 J	10 U	9.8 J	10 U	5.3 J	7.1 J	14 J	33 U	9.6 J	200 U	200 UDJ	250 U	12	3.3 J	11 J	10 U	7.1 J	10.0 U
Benzene	1	0.62 J	1.0 U	1.0 U	1.0 UJ	1.0 U	**1.1**	1.0 U	0.41 J	3.3 U	0.67 J	20 U	20 UDJ	25 U	1.0 U	1.0 U	**1.3 J**	**1.3**	1.0 U	**3.4**
Bromodichloromethane	50	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromoform	50*	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromomethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon disulfide		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.3 J	1.0 UJ	3.3 U	2.2	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroform	7	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	0.6 J	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloromethane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	**170**	1.0 U	1.0 U	1.0 UJ	0.24 J	**20**	**46**	**36 J**	**38**	**440 D**	**310**	**550 DJ**	**490**	**6.3**	4.0	**13 J**	**7.0**	1.9	**15**
cis-1,3-Dichloropropene	0.4	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Dichlorodifluoromethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Acetate		25 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	33 U	2.5 U	50 U	50 UDJ	250 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U
Methyl Cyclohexane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	**9.1 DJ**	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	2.5 U	0.3 J	0.27 J	1.0 UJ	0.23 J	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Styrene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.3	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Toluene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	0.69 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.1	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Trichloroethene	5	**14**	0.5 J	0.61 J	1.0 UJ	0.37 J	2.1	4.1	3.3 J	2.7 J	**19**	20 U	20 UDJ	**7.1 J**	0.5 J	0.66 J	0.67 J	0.80 J	0.52 J	0.59 J
Trichlorofluoromethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1 U	20 U	20 UDJ	25 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	**31**	1.0 U	1.0 U	1.0 UJ	1.0 U	**2.5**	**3.1**	**3.1 J**	**3.0 J**	**44**	**140**	**92 DJ**	**44**	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes, Total		5.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	6.7 U	2.0 U	40 U	40 UDJ	50 U	1.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Total VOCs		218	9.29	0.88	9.80	0.84	32.0	62.8	56.8	43.7	1394	1645	3717	2236	20.2	7.96	26.0	9.10	9.52	18.99
Total VOCs (w/o Acteone or Methlyene Chloride)		218	0.79	0.88	0.0	0.84	26.7	55.7	42.8	43.7	1384	1645	3717	2236	8.24	4.66	15.0	9.10	2.42	18.99

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
- 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
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
[1]-This is a duplicate sample from 4009-12
[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC	4009-9	4009-9	4009-9	4009-10	4009-10	4009-10	4009-10	4009-10	4009-10	4009-10	4009-10	4009-10	4009-11	4009-11	4009-11	4009-11	4009-11	4009-11	4009-11
Sampling Date	GA	11/4/2015	3/28/2016	6/30/2016	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015
Groundwater Monitoring Zone	Standard	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9 J	1.0 U	1.0 U	1.0 U	**79**
1,1,2,2-Tetrachloroethane	5	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 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 U	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 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 U	1.0 U
1,1,2-Trichloroethane	1	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 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 U	1.0 U
1,1-Dichloroethane	5	0.38 J	1.0 U	0.39 J	1.0 U	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 U	**20**
1,1-Dichloroethene	5	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 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 U	**8.7**
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 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	5.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	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 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 U	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 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 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 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	2.0 U	1.0 U	1.0 U	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 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 U	1.0 U
1,2-Dichlorobenzene	3	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 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 U	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 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 U	1.0 U
1,2-Dichloropropane	1	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 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 U	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 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 U	1.0 U
1,3-Dichlorobenzene	3	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 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 U	1.0 U
1,4-Dichlorobenzene	3	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 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 U	1.0 U
2-Butanone (MEK)	50	10.0 U	10.0 U	10 U	10 U	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 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 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	10 U	5.0 U	5.0 U	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 UJ	10 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	10 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10.0 U	3.5 J	10 U	10	3.2 J	7.5 J	10 U	9.2 J	10 U	10 U	10 U	10 U	7.8 J	4.6 J	10 UJ	10 U	6.7 J	10 U	10 U
Benzene	1	**2.5**	1.0 U	1.0 U	0.6 J	0.53 J	**2.3 J**	**26**	1.0 U	**1.8**	0.97 J	1.0 U	**1.9**	1.0 U	1.0 U	1.0 UJ	**7.8**	**5.6**	**8.4**	1.0 U
Bromodichloromethane	50	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 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 U	1.0 U
Bromoform	50*	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 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 U	1.0 U
Bromomethane	5	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 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 U	1.0 U
Carbon disulfide		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 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 U	1.0 U
Carbon tetrachloride	5	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 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 U	1.0 U
Chlorobenzene	5	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 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 U	1.0 U
Chloroethane	5	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 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 U	1.5
Chloroform	7	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 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 U	1.0 U
Chloromethane		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 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 U	1.0 U
cis-1,2-Dichloroethene	5	**21**	4.0	**21**	1.0 U	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 U	**12**
cis-1,3-Dichloropropene	0.4	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 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 U	1.0 U
Cyclohexane		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 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 U	1.0 U
Dibromochloromethane	50	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 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 U	1.0 U
Dichlorodifluoromethane	5	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 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 U	1.0 U
Ethylbenzene	5	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 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 U	1.0 U
Isopropylbenzne (Cumene)	5	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 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 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 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	10 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		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 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 U	1.0 U
Methylene Chloride	5	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 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 U	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 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 U	1.0 U
Styrene	5	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 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 U	1.0 U
Tetrachloroethene	5	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 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 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	2.0	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	1.0	1.0	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 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 U	1.0 U
trans-1,3-Dichloropropene	0.4	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 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 U	1.0 U
Trichloroethene	5	0.52 J	0.74 J	0.65 J	1.0 U	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 U	1.0 U
Trichlorofluoromethane	5	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 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 U	1.0 U
Vinyl chloride	2	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 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 U	**19**
Xylenes, Total		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 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 U	2.0 U
Total VOCs		24.4	8.24	22.04	12.6	3.73	9.80	26.3	9.20	1.80	0.97	0.0	1.9	7.80	4.60	1.90	8.80	13.3	9.40	140
Total VOCs (w/o Acteone or Methlyene Chloride)		24.4	4.74	22.04	2.60	0.53	2.30	26.3	0.0	1.80	0.97	0.0	1.9	0.0	0.0	1.90	8.80	6.60	9.40	140

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
- 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
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
[1]-This is a duplicate sample from 4009-12
[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC	4009-11	4009-11	4009-11A	4009-11A	4009-11A	4009-11A	4009-11A	4009-11A	4009-11A	4009-11A	4009-11A	4009-11A	4009-12	4009-12	4009-12	4009-12	4009-12	4009-12	4009-12	4009-12
Sampling Date	GA	3/28/2016	6/30/2016	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016
Groundwater Monitoring Zone	Standard	Deep	Deep	shallow	shallow	shallow	shallow	shallow	shallow	shallow	shallow	shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	**57**	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**32**	**43**	1.0 U	**290**	1.0 U	**180**	**67**	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	0.74 J	1.0 U	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	1.0 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	0.76 J	**13**	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0	**6.5**	1.0 U	**29**	1.8	**25**	**29**	3.1
1,1-Dichloroethene	5	1.0 U	3.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.4	**6.1**	1.0 U	**30**	1.0 U	**20**	**8.5**	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	110 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	44 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	220 U	10 U	50 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 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	220 U	5.0 U	25 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 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	220 U	5.0 U	25 U	5.0 U	5.0 U
Acetone	50*	4.4 J	10 U	9.8 J	4.1 J	10 J	10 U	7.6 J	10 U	10 U	4.6 J	3.5 J	5.8 J	3.8 J	7.0 J	220 U	7.1 J	50 U	10 U	10 U
Benzene	1	**18**	1.0 U	1.0 U	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	**1.5**	**1.6**	22 U	**2.7**	**2.9 J**	**2.4**	**6.7**
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	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 U	22 U*	1.0 U	5.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Chloroethane	5	1.5	1.2	1.0 U	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 U	22 U	1.0 U	5.0 U	0.83 J	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	**8.8**	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**13**	**9.5**	**8.5**	**63**	4.1	**41**	**18**	1.5
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 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	220 U	2.5 U	13 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	0.50 JB
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Toluene	5	0.79 J	1.0 U	1.0 U	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	0.8 J	0.74 J	22 U	1.0 U	5.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**17**	**18**	1.0 U	**64**	1.0 U	**39**	**11**	0.77 J
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	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 U	22 U	1.0 U	5.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	**14**	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.1**	**3.7**	0.9 J	**30**	**2.3**	**51**	**41**	1.7
Xylenes, Total		2.0 U	2.0 U	2.0 U	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 U	44 U	2.0 U	10 U	2.0 U	2.0 U
Total VOCs		25.45	98.14	9.80	4.10	10.0	0.0	7.60	0.0	0.0	4.60	3.50	81.3	93.9	18.7	506	18.0	359	178	14.27
Total VOCs (w/o Acteone or Methlyene Chloride)		21.05	98.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.5	90.1	11.7	506	10.9	359	178	13.77

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
- 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
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
[1]-This is a duplicate sample from 4009-12
[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-12 6/30/2016 Deep ug/L	DUP_01[1] 6/30/2016 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	4009-12A 12/9/2014 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	4009-13 12/9/2014 Deep ug/L	4009-13 4/20/2015 Deep ug/L	4009-13 7/29/2015 Deep ug/L	4009-13 11/4/2015 Deep ug/L	4009-13 3/28/2016 Deep ug/L	4009-13 6/30/2016 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	4009-13A 12/9/2014 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	**34**	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 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2,2-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 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
1,1,2-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 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
1,1,2-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 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
1,1-Dichloroethane	5	2.9	2.8	4.3	**7.8**	4.3	2.8	1.0 U	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
1,1-Dichloroethene	5	1.0 U	1.0 U	3.8	1.3	0.6 J	0.53 J	1.0 U	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
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 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	5.0 U
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 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
1,2,4-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 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
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 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	2.0 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 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
1,2-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 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
1,2-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 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
1,2-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 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
1,3,5-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 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
1,3-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 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
1,4-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 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
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	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	10 U	5.0 U	5.0 U	5.0 UJ	10 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	10 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 UJ	10 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	10 U
Acetone	50*	10 U	3.1 J	9.9 J	3.9 J	10 U	10 U	8.4 J	3.8 J	10 UJ	10 U	8.9 J	10 U	10 U	10 U	3.5 J	8.4 J	10 U	11 J	10 U
Benzene	1	**7.5**	**8.0**	1.0 U	1.0 U	0.57 J	0.31 J	1.0 U	0.42 J	**4.8 J**	**1.0**	0.96 J	**1.7**	**3.2**	**3.2**	**2.4**	1.0 U	0.58 J	1.0 UJ	0.96 J
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 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
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 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
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 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
Carbon disulfide		1.0 U	0.25	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 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 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
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 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
Chloroethane	5	1.0 U	1.0 U	1.0 U	**7.5**	**7.0**	4.1	1.0 U	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
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 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
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 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
cis-1,2-Dichloroethene	5	1.1	1.2	**15**	**18**	**15**	**14**	1.0 U	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
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 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
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 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
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 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*
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 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
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 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
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 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
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 UJ	10 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	10 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 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
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 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
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 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
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 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
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 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*
Toluene	5	1.0 U	1.0 U	1.0 U	0.55 J	0.53 J	1.0 U	1.0 U	3.7	2.7 J	0.55 J	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
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 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
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 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*
Trichloroethene	5	0.81 J	0.81 J	**19**	**2.2**	1.0	0.30 J	1.0 U	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
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 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
Vinyl chloride	2	1.4	1.3	**6.4**	1.0 U	1.7	**6.5**	1.0 U	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
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 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
Total VOCs		13.71	17.46	92.4	41.3	30.7	28.5	8.40	7.92	7.50	1.55	9.90	1.70	3.20	3.20	5.90	8.40	0.58	11.0	0.96
Total VOCs (w/o Acteone or Methlyene Chloride)		13.71	14.36	82.5	37.4	30.7	28.5	0.0	4.12	7.50	1.55	1.00	1.70	3.20	3.20	2.40	0.0	0.58	0.0	0.96

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
- 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
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
[1]-This is a duplicate sample from 4009-12
[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-13A 4/20/2015 Shallow ug/L	4009-13A 7/29/2015 Shallow ug/L	4009-13A 11/4/2015 Shallow ug/L	4009-13A 3/28/2016 Shallow ug/L	4009-13A 6/30/2016 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	4009-14 12/9/2014 Deep ug/L	4009-14 4/20/2015 Deep ug/L	4009-14 7/29/2015 Deep ug/L	4009-14 11/4/2015 Deep ug/L	4009-14 3/28/2016 Deep ug/L	4009-14 6/30/2016 Deep 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	4009-15 12/9/2014 Deep ug/L	4009-15 4/20/2015 Deep 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 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	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	0.5 J	0.53 J	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	1.0 U
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	5.0 U	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	1.0 U
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 U	1.0 U	1.0 U	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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	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 U	1.0 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.3 J	10 U	10 U	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	10 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	10 U	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	10 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	10 U	5.0 U
Acetone	50*	6.8 J	10 U	10 U	10 U	10 U	6.3 J	4.3 J	11	10 U	7.1 J	10 U	3.1 J	10 U	4.1 J	7.5 J	5.1 J	7.2 J	10 U	5.8 J
Benzene	1	1.0 U	1.0 U	0.44 J	**1.2**	1.0 U	1.0 U	1.0 U	1.0 U	0.54 J	**1.2**	**4.0**	**12**	**18**	**14**	1.0 U	1.0 U	0.5 J	0.86 J	**1.8**
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U*	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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	10 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	10 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U*	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.91 J	1.0	0.92 J	1.0	1.2	1.2	0.78 J	1.0 U	1.0 U	0.56 J	0.61 J	0.72 J	0.77 J
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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U*	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	2.0 U	2.0 U	2.0 U
Total VOCs		6.80	0.0	0.44	1.20	0.0	6.30	5.21	12.0	1.46	9.30	5.20	16.3	18.78	18.1	8.02	7.49	8.31	1.58	8.37
Total VOCs (w/o Acteone or Methlyene Chloride)		0.0	0.0	0.44	1.20	0.0	0.0	0.91	1.00	1.46	2.20	5.20	13.2	18.78	14.0	0.52	2.39	1.11	1.58	2.57

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
- 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
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
[1]-This is a duplicate sample from 4009-12
[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC	4009-15	4009-15	4009-15	4009-15	4009-16	4009-16	4009-16	4009-16	4009-16	4009-16	4009-16	4009-16	4009-16	4009-16A	4009-16A	4009-16A	4009-16A	4009-16A	4009-16A
Sampling Date	GA	7/29/2015	11/4/2015	3/28/2016	6/30/2016	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015
Groundwater Monitoring Zone	Standard	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	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 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	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 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	1.0 U
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	5.0 U	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	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	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 U	1.0 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.6 J	10 U	10 U	10 U	10 U	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	10 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	10 U	5.0 U	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	10 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	10 U	5.0 U	5.0 U
Acetone	50*	10 U	4.9 J	5.1 J	9.1 J	5.9 J	3.5 J	7.1 J	10 U	6.0 J	10 U	10.0 U	10.0 U	4.5 J	12	4.0 J	7.6 J	10 U	6.4 J	10 U
Benzene	1	**9.1**	**8.0**	**9.1**	**8.5**	1.0 U	1.0 U	**8.2**	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	**8.4**	1.0 U	**1.9**	**7.2**	**8.0**	**5.7**	**11**
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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 U	1.0 U*	1.0 U	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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	10 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	10 U	2.5 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U*	1.0 U	1.0 U
Toluene	5	1.0	0.84 J	0.57 J	1.0 U	1.0 U	1.0 U	1.5	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
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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U*	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	2.0 U	2.0 U	2.0 U
Total VOCs		10.1	13.74	14.77	17.6	5.90	3.50	16.8	0.39	6.00	0.0	0.0	0.0	12.9	13.6	5.90	14.8	8.00	12.1	11.0
Total VOCs (w/o Acteone or Methlyene Chloride)		10.1	8.84	9.67	8.50	0.0	0.0	9.70	0.39	0.0	0.0	0.0	0.0	8.4	1.60	1.90	7.20	8.00	5.70	11.0

Notes

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- 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

M - Manual integrated compound

* - Laboratory control sample / duplicate exceeds control limits.

[1]-This is a duplicate sample from 4009-12

[2]-This is a duplicate sample from 4009-29I

Sample ID	NYSDEC	4009-16A	4009-16A	4009-16A	4009-18	4009-18	4009-18	4009-18	4009-18	4009-19	4009-19	4009-19	4009-19	4009-19	4009-21	4009-21	4009-21	4009-21	4009-21	4009-22
Sampling Date	GA	11/4/2015	3/28/2016	6/30/2016	5/6/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	12/3/2013
Groundwater Monitoring Zone	Standard	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	0.86 J	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	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 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	1.0 U
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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
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 U	1.0 U	1.0 U	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	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	10 U	10 U	10 U	3.3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	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 U	5.0 U	5.0 U	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 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	10	10 U	10 U	10 U	10 U	8.5 J	10 U	10 U	10 U	10 U	7.9 J	10 U	10 U	10 U	10 U	3.1 J
Benzene	1	**3.0**	**4.2**	0.49 J	1.0 U	1.0 U	1.0 U	0.41 J	1.0 U	**2.7**	**1.0**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**11**	**31**	**21**	0.7 J
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	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
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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.58 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	0.64 J	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	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 U	1.0 U	1.0 U	1.0 U
Toluene	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 U	1.0 U	1.0 U	0.7 J
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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
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 U	2.0 U	2.0 U	2.0 U
Total VOCs		3.00	4.20	0.49	14.16	1.00	0.0	0.99	0.83	11.2	1.00	0.0	0.0	0.0	7.90	0.0	11.0	31.64	21.0	4.44
Total VOCs (w/o Acteone or Methlyene Chloride)		3.00	4.20	0.49	4.16	1.00	0.0	0.41	0.83	2.70	1.00	0.0	0.0	0.0	0.0	0.0	11.0	31.0	21.0	1.34

Notes

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- 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

M - Manual integrated compound

* - Laboratory control sample / duplicate exceeds control limits.

[1]-This is a duplicate sample from 4009-12

[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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	4009-22 12/9/2014 Deep ug/L	4009-22 4/20/2015 Deep ug/L	4009-22 7/29/2015 Deep ug/L	4009-22 11/4/2015 Deep ug/L	4009-22 3/28/2016 Deep ug/L	4009-22 6/30/2016 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	4009-23S 12/9/2014 Shallow ug/L	4009-23D 2/20/2014 Intermediate ug/L	4009-23D 5/28/2014 Intermediate ug/L	4009-23D 8/28/2014 Intermediate ug/L	4009-23D 12/9/2014 Intermediate ug/L	4009-24 2/20/2014 Shallow ug/L	4009-24 5/28/2014 Shallow 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 UJ	1.0 U	**130 D**	**720**	**140 DJ**	**570**	1.0 U	1.0 U
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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	24	18	12 J	8.2	1.0 U	1.0 U
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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U
1,1-Dichloroethane	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	3.2	4.4	2.5 J	2.2	**250 D**	**420**	**220 DJ**	**280**	1.0 U	1.0 U
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 UJ	1.0 U	**31**	**78**	**23 J**	**40**	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	0.38 J	0.44 J	5.0 U	10 UD	10 U	1.0 UJ	33 U	1.0 U	1.0 U
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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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	**8.6**	2.0	4.2 J	1.0 U	10 UD	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	2.0 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	2.0 U	1.0 U	10 U	1.0 UJ	13 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	0.4 J	10 U	0.39 J	6.7 U	1.0 U	1.0 U
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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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	4.4	1.2	4.0 J	1.0 U	10 UD	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U
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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	100 U	10 UJ	67 U	1.4 J	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	10 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	10 U	5.0 U	50 U	5.0 UJ	67 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	10 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	10 U	5.0 U	50 U	5.0 UJ	67 U	5.0 U	5.0 U
Acetone	50*	12	10 U	11	10 U	6.5 J	10.0 U	10.0 U	10.0 U	4.0 J	6.1 J	10 U	7.2 J	10 U	8.3 J	100 U	9.8 J	67 U	9.3 J	4.2 J
Benzene	1	0.7 J	0.92 J	0.98 J	0.82 J	**1.2**	**1.1**	**1.2**	**1.6**	**1.3**	**1.8**	**1.8**	**1.8 J**	**1.1**	1.0 U	10 U	0.62 J	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U*	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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	1.2 J	0.64 J	**11**	**11**	**8.2 J**	2.8 J	1.0 U	1.0 U
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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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	2.2	2.2	1.9 J	2.9	**580 D**	**450**	**460 DJ**	**330**	1.0 U	1.0 U
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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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	0.8 J	0.61 J	0.85 J	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U*	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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	0.83 J	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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	**5.3**	**3.6**	**5.8 J**	2.2	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	10 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	10 U	2.5 U	25 U	2.5 UJ	67 U	2.5 U	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	0.7 J	0.5 J	1.0 UJ	1.0 U	0.3 J	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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 UJ	1.0 U*	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	1.0 U
Toluene	5	0.6 J	1.1	0.83 J	0.64 J	0.93 J	1.1	0.81 J	0.92 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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	2.4	2.8	1.8 J	1.8	2.3	10 U	1.3 J	6.7 U	1.0 U	1.0 U
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 UJ	1.0 U*	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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	1.6	1.6	1.3 J	1.8	**8.7**	**8.3 J**	**6.1 J**	4.9 J	1.0 U	1.0 U
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 UJ	1.0 U	1.0 U	10 U	1.0 UJ	6.7 U	1.0 U	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	0.9 J	1.1	1.1 J	0.80 J	**630 D**	**440**	**530 DJ**	**340**	1.0 U	1.0 U
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 UJ	2.0 U	2.0 U	20 U	2.0 UJ	13 U	2.0 U	2.0 U
Total VOCs		13.2	2.02	12.8	1.46	8.63	2.20	2.01	2.98	5.30	39.8	23.1	34.1	13.4	1676	2145	1411	1576	10.7	4.20
Total VOCs (w/o Acteone or Methlyene Chloride)		1.24	2.02	1.81	1.46	2.13	2.20	2.01	2.52	1.30	33.7	23.1	26.9	13.4	1667	2145	1402	1576	1.40	0.0

Notes

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- 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

M - Manual integrated compound

* - Laboratory control sample / duplicate exceeds control limits.

[1]-This is a duplicate sample from 4009-12

[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-24 8/28/2014 Shallow ug/L	4009-24 12/9/2014 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	4009-25S 12/9/2014 Shallow ug/L	4009-25D 2/20/2014 Shallow ug/L	4009-25D 5/28/2014 Shallow ug/L	4009-25D 8/28/2014 Shallow ug/L	4009-25D 12/9/2014 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	4009-26 12/9/2014 Intermediate 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	4009-27S 12/9/2014 Intermediate ug/L	4009-27S 4/20/2015 Intermediate ug/L
1,1,1-Trichloroethane	5	1.0 UJ	1.0 U	2600 D	3300	9900 DJ	3800	1900 D	3300	820 DJ	1900	98	370	150 DJ	92	54	61	65 J	49	61
1,1,2,2-Tetrachloroethane	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 UJ	1.0 U	31	40 U	40 UDJ	32 J	32	22 J	19 DJ	25 J	7.7	13	6.0 DJ	7.7	2.8	3.4	2.3 J	2.6	3.3
1,1,2-Trichloroethane	1	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
1,1-Dichloroethane	5	1.0 UJ	1.0 U	87	140	120 DJ	99	74	120	53 DJ	50	27	39	16 DJ	14	1.9	2.2	2.2 J	1.9 J	2.6
1,1-Dichloroethene	5	1.0 UJ	1.0 U	110 D	410	650 DJ	280	120 D	330	57 DJ	190	6.0	46	9.9 DJ	7.8	5.7	8.9	5.6 J	4.6	6.2
1,2,3-Trimethylbenzene		1.0 UJ	5.0 U	40 UD	40 U	40 UDJ	250 U	20 UD	20 U	20 UDJ	170 U	2.0 UD	8.0 U	2.0 UDJ	10 U	1.0 U	1.0 U	1.0 UJ	10 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2 U	1.0 U	1.0 U	1.0 UJ	2 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 UJ	1.0 U	40 UD	40 U	40 UDJ	50 U	20 UD	20 U	20 UDJ	33 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 UJ	2.0 U	1.0 U	40 U	40 UDJ	100 U	1.0 U	20 U	20 UDJ	67 U	1.0 U	8.0 U	2.0 UDJ	4.0 U	1.0 U	1.0 U	1.0 UJ	4.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	0.9 J	1.0 UJ	2.0 U	1.0 U
1,2-Dichloropropane	1	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 UJ	1.0 U	40 UD	40 U	40 UDJ	50 U	20 UD	20 U	20 UDJ	33 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
2-Butanone (MEK)	50	10 UJ	10 U	10 U	400 U	400 UDJ	500 U	10 U	200 U	200 UDJ	330 U	10 U	80 U	20 UDJ	20 U	10 U	10 U	10 UJ	20 U	10 U
2-Hexanone	50*	5.0 UJ	10 U	5.0 U	200 U	200 UDJ	500 U	5.0 U	100 U	100 UDJ	330 U	5.0 U	40 U	10 UDJ	20 U	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 UJ	10 U	5.0 U	200 U	200 UDJ	500 U	5.0 U	100 U	100 UDJ	330 U	5.0 U	40 U	10 UDJ	20 U	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U
Acetone	50*	10 UJ	10 U	10 U	400 U	400 UDJ	500 U	6.0 J	200 U	200 UDJ	330 U	10	80 U	20 UDJ	20 U	9.9 J	3.8 J	8.1 UJ	20 U	8.1 J
Benzene	1	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	0.81 J	8.0 U	2.0 UDJ	0.55 J	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Bromodichloromethane	50	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Bromoform	50*	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U*	1.0 U	20 U	20 UDJ	33 U*	1.0 U	8.0 U	2.0 UDJ	2.0 U*	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Bromomethane	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Carbon disulfide		1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Carbon tetrachloride	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Chlorobenzene	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Chloroethane	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Chloroform	7	0.44 J	0.48 J	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Chloromethane		1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
cis-1,2-Dichloroethene	5	2.2 J	1.0 U	180 D	210	490 DJ	260	76	110	100 DJ	260	120 D	190	96 DJ	85	18	20	19 J	19	21
cis-1,3-Dichloropropene	0.4	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Cyclohexane		1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Dibromochloromethane	50	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	3.9	5.8 J	5.0 DJ	2.8	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Ethylbenzene	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Methyl Acetate		2.5 UJ	10 U	2.5 U	100 U	100 UDJ	500 U	2.5 U	50 U	50 UDJ	330 U	2.5 U	20 U	5.0 UDJ	20 U	2.5 U	2.5 U	2.5 UJ	20 U	2.5 U
Methyl Cyclohexane		1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Methylene Chloride	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.4	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Styrene	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Tetrachloroethene	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.1	8.0 U	0.97 DJ	0.89 J	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Toluene	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 UJ	1.0 U	2.9	40 U	40 UDJ	50 U	2.0	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Trichloroethene	5	1.0 UJ	1.0 U	32	40 U	2900 DJ	230	16	10 J	21 DJ	100	45	71	47 DJ	49	25	28	24 J	22	25
Trichlorofluoromethane	5	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Vinyl chloride	2	1.0 UJ	1.0 U	3.7	40 U	40 UDJ	29 J	1.4	20 U	20 UDJ	32 J	12	21	13 DJ	9.4	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
Xylenes, Total		2.0 UJ	2.0 U	2.0 U	80 U	80 UDJ	100 U	2.0 U	40 U	40 UDJ	67 U	2.0 U	16.0 U	4.0 UDJ	4.0 U	2.0 U	2.0 U	2.0 UJ	4.0 U	2.0 U
Total VOCs		2.64	0.48	3047	4060	14060	4730	2227	3892	1070	2557	332	764	344	269	117	128	126	99.1	127.2
Total VOCs (w/o Acteone or Methlyene Chloride)		2.64	0.48	3047	4060	14060	4730	2221	3892	1070	2557	322	756	344	269	107	124	118	99.1	119.1

Notes

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- 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

M - Manual integrated compound

* - Laboratory control sample / duplicate exceeds control limits.

[1]-This is a duplicate sample from 4009-12

[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-27S 7/29/2015 Intermediate ug/L	4009-27S 11/4/2015 Intermediate ug/L	4009-27S 3/28/2016 Intermediate ug/L	4009-27S 6/30/2016 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	4009-27I 12/9/2014 Intermediate ug/L	4009-27I 4/20/2015 Intermediate ug/L	4009-27I 7/29/2015 Intermediate ug/L	4009-27I 11/4/2015 Intermediate ug/L	4009-27I 3/28/2016 Intermediate ug/L	4009-27I 6/30/2016 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	4009-27D 12/9/2014 Deep ug/L	4009-27D 4/20/2015 Deep ug/L	4009-27D 7/29/2015 Deep ug/L
1,1,1-Trichloroethane	5	**62**	**61**	**58**	**54**	1.0 U	1.0 U	1.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	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 U	1.0 U	1.0 U	1.0 U	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 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		3.3	3.5	2.9	2.7	1.0 U	0.37 J	1.0 UJ	1.0 U	1.0 U	0.31 J	1.0 U	0.39 J	0.40 J	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 U	1.0 U	1.0 U	1.0 U	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 U
1,1-Dichloroethane	5	2.7	2.4	2.4	2.1	1.0 U	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 U
1,1-Dichloroethene	5	**10**	**7.0**	4.5	5.0	1.0 U	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 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 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	5.0 U	1.0 U	1.0 U
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 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 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 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 U
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 UJ	2.0 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	2.0 U	1.0 U	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 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 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 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 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 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 U
1,2-Dichloropropane	1	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 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 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 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 U
1,3-Dichlorobenzene	3	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 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 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 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 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	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 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 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	10 U	5.0 U	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 UJ	10 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	10 U	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	10 U	5.8 J	10 U	7.9 J	10 U	9.3 J	10 U	10 U	10 U	10 U	9.8 J	4.8 J	8.0 J	10 U	7.1 J	10.0 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.71 J	1.0 U	1.0 U	1.0 U	0.61 J	1.0 U	0.95 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	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 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 U
Bromoform	50*	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 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 U
Bromomethane	5	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 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 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.86 J	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 U
Carbon tetrachloride	5	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 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 U
Chlorobenzene	5	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 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 U
Chloroethane	5	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 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 U
Chloroform	7	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 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 U
Chloromethane		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 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 U
cis-1,2-Dichloroethene	5	**24**	**21**	**22**	**20**	1.0 U	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 U
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 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 U
Cyclohexane		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 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 U
Dibromochloromethane	50	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 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 U
Dichlorodifluoromethane	5	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 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 U
Ethylbenzene	5	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 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 U
Isopropylbenzne (Cumene)	5	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 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 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 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	10 U	2.5 U	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 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 U
Methylene Chloride	5	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	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 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 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 U
Styrene	5	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 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 U
Tetrachloroethene	5	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 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 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.77 J	0.87 J	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 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 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 U
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 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 U
Trichloroethene	5	**28**	**25**	**24**	**23**	1.4	1.1	1.2 J	0.34 J	1.0 U	1.9	1.0 U	1.4	0.84 J	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	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 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 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.2	1.0 U	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 U
Xylenes, Total		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 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 U
Total VOCs		130	120	114	108	7.20	1.47	11.1	1.97	10.17	2.21	0.61	1.79	3.49	9.80	4.80	8.48	0.0	7.10	0.0
Total VOCs (w/o Acteone or Methlyene Chloride)		130	120	114	108	1.40	1.47	3.21	1.97	0.87	2.21	0.61	1.79	3.49	0.0	0.0	0.48	0.0	0.0	0.0

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
- 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
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
[1]-This is a duplicate sample from 4009-12
[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC	4009-27D	4009-27D	4009-27D	4009-28	4009-28	4009-28	4009-28	4009-28	4009-28	4009-28	4009-28	4009-28	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S	4009-29S
Sampling Date	GA	11/4/2015	3/28/2016	6/30/2016	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015
Groundwater Monitoring Zone	Standard	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.3	2.7	1.0 U	3.0	2.9	2.9	2.3	1.9	2.5	**710 D**	**650**	**1000 DJ**	**480**	**830**	**850**	**760**
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	10 U	10 UD	17 U	20 U	20 U	20 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	12	10 U	7.1 DJ	17 U	8.7 J	7.3 J	20 U
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	10 U	10 UD	17 U	20 U	20 U	20 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	1.0 U	1.0	1.0 U	**130 D**	**35**	**46 D**	**29**	**38**	**55**	**49**
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	0.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**92**	**89**	**62 D**	**33**	**37**	**130**	**84**
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	83 U	20 U	20 U	20 U
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	10 U	10 UD	17 U	20 U	20 U	20 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	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U
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	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	33 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 U
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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 U
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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	100 UD	170 U	200 U	200 U	200 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 UD	170 U	100 U	100 U	100 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U	50 UD	170 U	100 U	100 U	100 U
Acetone	50*	10.0 U	10.0 U	10 U	7.9 J	3.7 J	6.8 J	10 U	6.1 J	10 U	10.0 U	10.0 U	10 U	6.0 J	100 U	100 UD	170 U	200 U	200 U	200 U
Benzene	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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	2.9	10 U	10 UD	17 U	20 U	20 U	20 U
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	0.69 J	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**260 D**	**340**	**410 D**	**270**	**320**	**480**	**310**
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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	1.3	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	25 U	25 UD	170 U	20 U	20 U	50 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	10 U	10 UD	17 U	20 U	20 U	20 U
Methylene Chloride	5	1.0 U	0.60 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	10 U	10 UD	**5.6 J***	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	10 U	10 UD	17 U	20 U	20 U	20 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	0.95 J	10 U	10 UD	17 U	20 U	20 U	20 U
Toluene	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	10 U	10 UD	17 U	20 U	20 U	20 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	1.5	10 U	10 UD	17 U	20 U	20 U	20 U
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	10 U	10 UD	17 U	20 U	20 U	20 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	**300 D**	10 U	**27 D**	3.5 J	20 U	20 U	20 U
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	10 U	10 UD	17 U	20 U	20 U	20 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	**43**	**15**	**42 D**	**16 J**	**24**	**65**	**82**
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	20 U	20 UD	33 U	40 U	40 U	40 U
Total VOCs		0.0	0.60	0.0	9.20	6.71	6.80	3.53	9.22	2.90	0.0	2.90	2.50	1560	1129	1594	837	1257.7	1587	1285
Total VOCs (w/o Acteone or Methlyene Chloride)		0.0	0.0	0.0	1.30	3.01	0.0	3.53	3.12	2.90	0.0	2.90	2.50	1554	1129	1594	832	1257.7	1587	1285

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
- 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
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
[1]-This is a duplicate sample from 4009-12
[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-29S 3/28/2016 Intermediate ug/L	4009-29S 6/30/2016 Intermediate ug/L	4009-29I 2/20/2014 Intermediate ug/L	4009-29I 5/28/2014 Intermediate ug/L	4009-29I 8/28/2014 Intermediate ug/L	4009-29I 12/9/2014 Intermediate ug/L	4009-29I 4/20/2015 Intermediate ug/L	4009-29I 7/29/2015 Intermediate ug/L	4009-29I 11/4/2015 Intermediate ug/L	4009-29I 3/28/2016 Intermediate ug/L	4009-29I 6/30/2016 Intermediate ug/L	DUP_02[2] 6/30/2016 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	4009-29D 12/9/2014 Deep ug/L	4009-29D 4/20/2015 Deep ug/L	4009-29D 7/29/2015 Deep ug/L	4009-29D 11/4/2015 Deep ug/L
1,1,1-Trichloroethane	5	800 D	460	1700 D	1600	130 DJ	1100	1500	1700	1400	1400 D	1200	1300	1.0 U	80	1200 DJ	170	290	30	14
1,1,2,2-Tetrachloroethane	5	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		7.1	20 U	21	25 U	2.0 UDJ	15 J	15 J	40 U	40 U	14	15 J	15 J	1.0 U	1.1	14	2.9 J	3.6 J	1.0 U	1.0 U
1,1,2-Trichloroethane	1	0.49 J	20 U	0.86 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	0.57 J	25 U	25 U	1.0 U	1.0 U	0.65 J	5.7 U	5.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	58	69	83	96	21 DJ	82	100	100	90	69	71	74	1.1	16	150 DJ	27	51	12	4.2
1,1-Dichloroethene	5	45	33	150 D	230	6.4 DJ	92	85	240	200	77	93	92	1.0 U	12	130 DJ	27	29	5.7	2.0
1,2,3-Trimethylbenzene		20 U	20 U	1.0 U	25 U	2.0 UDJ	200 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	29 U	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	20 U	20 U	1.0 U	25 U	2.0 UDJ	80 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	11 U	5.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	20 U	20 U	0.41 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	200 U	200 U	10 U	250 U	20 UDJ	400 U	400 U	400 U	400 U	10 U	250 U	250 U	10 U	10 U	10 U	57 U	50 U	10 U	10 U
2-Hexanone	50*	100 U	100 U	5.0 U	130 U	10 UDJ	400 U	200 U	200 U	200 U	5.0 U	130 U	130 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		100 U	100 U	5.0 U	130 U	10 UDJ	400 U	200 U	200 U	200 U	5.0 U	130 U	130 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U
Acetone	50*	200 U	200 U	11	250 U	12 DJ	400 U	400 U	400 U	400 U	10 U	250 U	250 U	6.9 J	10 U	10 U	57 U	50 U	10 U	10 U
Benzene	1	20 U	20 U	0.59 J	25 U	41 DJ	40 U	40 U	40 U	40 U	0.48 J	25 U	25 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	0.70 J	1.0 U
Bromodichloromethane	50	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Bromoform	50*	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Bromomethane	5	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Carbon disulfide		20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Chlorobenzene	5	20 U	20 U	1.6	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.3	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Chloroethane	5	1.5	20 U	5.0	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	2.7	25 U	25 U	1.0 U	1.4	8.8 DJ	5.7 U	2.5 J	1.0 U	1.2
Chloroform	7	0.49 J	20 U	1.1	25 U	1.1 DJ	40 U	40 U	40 U	40 U	0.77 J	25 U	25 U	1.0 U	1.0 U	0.83 J	5.7 U	5.0 U	1.0 U	1.0 U
Chloromethane		20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	390 D	190	400 D	400	53 DJ	330	380	530	410	420 D	340	340	1.4	25	400 DJ	150	210	37	8.0
cis-1,3-Dichloropropene	0.4	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Cyclohexane		20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Dibromochloromethane	50	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.5	20 U	1.2	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.9	25 U	25 U	1.0 U	1.0 U	1.5	5.7 U	5.0 U	1.0 U	1.0 U
Ethylbenzene	5	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Methyl Acetate		50 U	50 U	2.5 U	63 U	5.0 UDJ	400 U	100 U	100 U	100 U	2.5 U	63 U	63 U	2.5 U	2.5 U	2.5 U	57 U	13 U	2.5 U	2.5 U
Methyl Cyclohexane		20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Methylene Chloride	5	0.58 J	20 U	1.0 U	25 U	1.2 DJ	14 J*	18 J	40 U	40 U	0.60 J	25 U	25 U	1.0 U	1.0 U	1.0 U	2.0 J*	5.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Styrene	5	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Tetrachloroethene	5	0.42 J	20 U	2.1	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.8	25 U	25 U	1.0 U	1.0 U	1.0	5.7 U	5.0 U	1.0 U	1.0 U
Toluene	5	20 U	20 U	1.0 U	25 U	3.7 DJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	20 U	20 U	3.4	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.3	25 U	25 U	1.0 U	1.0 U	1.8	5.7 U	5.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	20 U	20 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Trichloroethene	5	9.2	20 U	450 D	460	34 DJ	360	410	550	480	450 D	370	390	1.8	17	400 DJ	26	20	0.78 J	0.94 J
Trichlorofluoromethane	5	20 U	20 U	0.94 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	0.92 J	25 U	25 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U
Vinyl chloride	2	120 D	78	85	85	6.6 DJ	78	92	140	110	94	85	100	4.7	12	170 DJ	34	55	7.8	7.2
Xylenes, Total		40 U	40 U	2.0 U	50 U	4.0 UDJ	80 U	80 U	80 U	80 U	2.0 U	50 U	50 U	2.0 U	2.0 U	2.0 U	11 U	10 U	2.0 U	2.0 U
Total VOCs		1434	830	2917	2871	310	2071	2600	3260	2690	2536	2174	2311	15.9	165	2480	439	674	94.0	37.54
Total VOCs (w/o Acteone or Methlyene Chloride)		1434	830	2906	2871	297	2057	2582	3260	2690	2536	2174	2311	9.00	165	2480	437	674	94.0	37.54

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
- 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
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
[1]-This is a duplicate sample from 4009-12
[2]-This is a duplicate sample from 4009-29I

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Second Quarter 2016
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA	4009-29D	4009-29D	4009-30	4009-30	4009-30	4009-30	4009-30	4009-30A	4009-30A	4009-30A	4009-30A	4009-30A	Well 1-1	Well 1-1	Well 1-1	Well 1-1	Well 1-1
Sampling Date	Standard	3/28/2016	6/30/2016	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016
Groundwater Monitoring Zone		Deep	Deep	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	**23**	**16**	0.98 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	**220**	**240**	**350**	**250**	**210**
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		0.40 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	4.1	5.0 U	5.0 U	4.3 J	4.3 J
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5	**5.5**	4.0	0.86 J	0.82 J	0.52 J	0.91 J	0.65 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**15**	**18**	**28**	**22**	**14**
1,1-Dichloroethene	5	2.0	1.3	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	**10**	**30**	**41**	**16**	5.0 U
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40 U	50 U	50 U	50 U	50 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	20 U	25 U	25 U	25 U	25 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	20 U	25 U	25 U	25 U	25 U
Acetone	50*	10 U	10 U	7.0 J	10 U	10 U	10 U	7.3 J	6.9 J	10 U	10 U	10 U	10 U	40 U	50 U	50 U	50 U	50 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	0.44 J	1.0 U	0.44 J	0.75 J	**2.5**	0.60 J	**2.2**	0.43 J	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	5	1.2	1.5	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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5	**9.9**	**5.7**	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	**39**	**66**	**82**	**68**	**52**
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	2.5 U	2.5 U	2.5 U	10 U	13 U	13 U	13 U	13 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	5	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	**5.9 B**	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	5	3.3	2.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**41**	**64**	**81**	**59**	**56**
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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	2	**8.3**	**7.5**	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	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U
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	8.0 U	10 U	10 U	10 U	10 U
Total VOCs		54.08	38.0	8.84	0.82	0.96	1.40	8.39	7.65	2.50	0.60	2.20	0.43	329	418	582	425	336
Total VOCs (w/o Acteone or Methlyene Chloride)		53.60	38.0	1.84	0.82	0.96	0.91	1.09	0.75	2.50	0.60	2.20	0.43	329	418	582	419	336

Notes

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- 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

M - Manual integrated compound

* - Laboratory control sample / duplicate exceeds control limits.

[1]-This is a duplicate sample from 4009-12

[2]-This is a duplicate sample from 4009-29I

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Units	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	Well 1-2A Influent 10/21/2014 ug/L	Well 1-2A Influent 10/28/2014 ug/L	Well 1-2A Influent 11/11/2014 ug/L	Well 1-2A Influent 11/24/2014 ug/L	Well 1-2A Influent 12/9/2014 ug/L	Well 1-2A Influent 12/18/2014 ug/L	Well 1-2A Influent 1/20/2015 ug/L	Well 1-2A Influent 1/29/2015 ug/L	Well 1-2A Influent 2/25/2015** ug/L	Well 1-2A Influent 2/25/2015** ug/L	Well 1-2A Influent 3/12/2015** ug/L	Well 1-2A Influent 3/19/2015** ug/L	Well 1-2A Influent 4/9/2015 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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA	1.0 U	NS	NS	NS	NS	0.5 U
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	NS	NS	NS	NA
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U *	10 U	NA	NA	5.0 U	NS	NS	NS	NS	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA	5.0 U	NS	NS	NS	NS	NA
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	NS	NS	NS	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Carbon disulfide		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U *	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U *	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Isopropylbenzne (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Methyl Acetate		NA	NA	NA	2.5 U	NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA	2.5 U	NS	NS	NS	NS	NA
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	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	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Trichlorofluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS	0.5 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	NS	NS	NS	NS	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0					0

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Units	NYSDEC GA Standard ug/L	Well 1-2A Influent 4/20/2015 ug/L	Well 1-2A Influent 5/6/2015 ug/L	Well 1-2A Influent 5/12/2015 ug/L	Well 1-2A Influent 6/9/2015 ug/L	Well 1-2A Influent 6/25/2015 ug/L	Well 1-2A Influent 7/29/2015 ug/L	Well 1-2A Influent 8/11/2015 ug/L	Well 1-2A Influent 8/28/2015 ug/L	Well 1-2A Influent 9/15/2015 ug/L	Well 1-2A Influent 9/24/2015 ug/L	Well 1-2A Influent 10/12/2015 ug/L	Well 1-2A Influent 11/4/2015 ug/L	Well 1-2A Influent 11/10/2015 ug/L	Well 1-2A Influent 12/21/2015 ug/L	Well 1-2A Influent 1/19/2016 ug/L	Well 1-2A Influent 1/27/2016 ug/L	Well 1-2A Influent 2/16/2016 ug/L	Well 1-2A Influent 2/26/2016 ug/L	Well 1-2A Influent 3/22/2016 ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	5.0 U	NA	1.0 U	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	2.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloropropane	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
2-Butanone (MEK)	50	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA
2-Hexanone	50*	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA
Acetone	50*	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	NA
Benzene	1	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromodichloromethane	50	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromoform	50*	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromomethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Carbon disulfide		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Carbon tetrachloride	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chlorobenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroform	7	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Chloromethane		1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Cyclohexane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dichlorodifluoromethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Ethylbenzene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methyl Acetate		2.5 U	2.5 U	NA	NA	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U	NA	10 U	NA	2.5 U	NA	2.5 U	NA
Methyl Cyclohexane		1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Styrene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Tetrachloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Toluene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichloroethene	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichlorofluoromethane	5	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Vinyl chloride	2	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Xylenes, Total		2.0 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- Concentration exceeds NYSDEC Class GA Standard

NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Units	NYSDEC GA Standard ug/L	Well 1-2A Influent 3/28/2016 ug/L	Well 1-2A Influent 4/20/2016 ug/L	Well 1-2A Influent 4/22/2016 ug/L	Well 1-2A Influent 5/20/2016 ug/L	Well 1-2A Influent 5/23/2016 ug/L	Well 1-2A Influent 6/21/2016 ug/L	Well 1-2A Influent 6/22/2016 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	Well 1-3 Influent 10/21/2014 ug/L	Well 1-3 Influent 10/28/2014 ug/L	Well 1-3 Influent 11/11/2014 ug/L	Well 1-3 Influent 11/24/2014 ug/L	Well 1-3 Influent 12/9/2014 ug/L	Well 1-3 Influent 12/18/2014 ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
2-Butanone (MEK)	50	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA
2-Hexanone	50*	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U *	10 U	NA
4-Methyl-2-pentanone (MIBK)		5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA
Acetone	50*	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromodichloromethane	50	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA
Bromoform	50*	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA
Bromomethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Carbon disulfide		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	NA	0.5 U	1.0 U	0.5 U	1 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroform	7	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA
Chloromethane		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA
Dibromochloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U *	1.0 U	NA
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U *	1.0 U	0.5 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA
Methyl Acetate		2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	NA	NA	NA	2.5 U	NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Tetrachloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U
Xylenes, Total		2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- Concentration exceeds NYSDEC Class GA Standard

NA - Not Analyzed

NS - Not Sampled

U - Compound was not detected at the indicated concentration

* LCS or LCSD exceeds the control limits

** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Units	NYSDEC GA Standard ug/L	Well 1-3 Influent 1/20/2015 ug/L	Well 1-3 Influent 1/29/2015 ug/L	Well 1-3 Influent 2/25/2015 ug/L	Well 1-3 Influent 2/25/2015 ug/L	Well 1-3 Influent 3/12/2015 ug/L	Well 1-3 Influent 3/19/2015 ug/L	Well 1-3 Influent 4/9/2015 ug/L	Well 1-3 Influent 4/20/2015 ug/L	Well 1-3 Influent 5/6/2015 ug/L	Well 1-3 Influent 5/12/2015 ug/L	Well 1-3 Influent 6/9/2015 ug/L	Well 1-3 Influent 6/25/2015 ug/L	Well 1-3 Influent 7/29/2015 ug/L	Well 1-3 Influent 8/11/2015 ug/L	Well 1-3 Influent 8/28/2015 ug/L	Well 1-3 Influent 9/15/2015 ug/L	Well 1-3 Influent 9/24/2015 ug/L	Well 1-3 Influent 10/12/2015 ug/L	Well 1-3 Influent 11/4/2015 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	NA	10 U	NS	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U
2-Hexanone	50*	NA	5.0 U	NS	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NS	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U
Acetone	50*	NA	10 U	NS	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U
Benzene	1	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U
Bromoform	50*	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U
Bromomethane	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	0.5 U	1.0 U	NS	1.0 U	NA	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Chloroform	7	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U
Chloromethane		0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Cyclohexane		NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		NA	2.5 U	NS	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	NA	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	NS	1.0 U	1 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Styrene	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Toluene	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		0.5 U	2.0 U	NS	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	2.0 U
Total VOCs		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- Concentration exceeds NYSDEC Class GA Standard

NA - Not Analyzed

NS - Not Sampled

U - Compound was not detected at the indicated concentration

* LCS or LCSD exceeds the control limits

** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Units	NYSDEC GA Standard ug/L	Well 1-3 Influent 11/10/2015 ug/L	Well 1-3 Influent 12/21/2015 ug/L	Well 1-3 Influent 1/19/2016 ug/L	Well 1-3 Influent 1/27/2016 ug/L	Well 1-3 Influent 2/16/2016 ug/L	Well 1-3 Influent 2/26/2016 ug/L	Well 1-3 Influent 3/22/2016 ug/L	Well 1-3 Influent 3/28/2016 ug/L	Well 1-3 Influent 4/20/2016 ug/L	Well 1-3 Influent 4/22/2016 ug/L	Well 1-3 Influent 5/20/2016 ug/L	Well 1-3 Influent 5/23/2016 ug/L	Well 1-3 Influent 6/21/2016 ug/L	Well 1-3 Influent 6/22/2016 ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		NA	5.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	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	2.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA
2-Hexanone	50*	NA	10.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		NA	10.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA
Acetone	50*	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromodichloromethane	50	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Bromoform	50*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Bromomethane	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Carbon disulfide		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	NA	1.0 U	NA	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Dibromochloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Dichlorodifluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Methyl Acetate		NA	10 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA
Methyl Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichlorofluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	1.0 U	0.5 U	1.0 U	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	0.5 U	2.0 U	0.5 U	2.0 U	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	0	0	0	0	0	0	0	0

Notes

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- Concentration exceeds NYSDEC Class GA Standard

NA - Not Analyzed

NS - Not Sampled

U - Compound was not detected at the indicated concentration

* LCS or LCSD exceeds the control limits

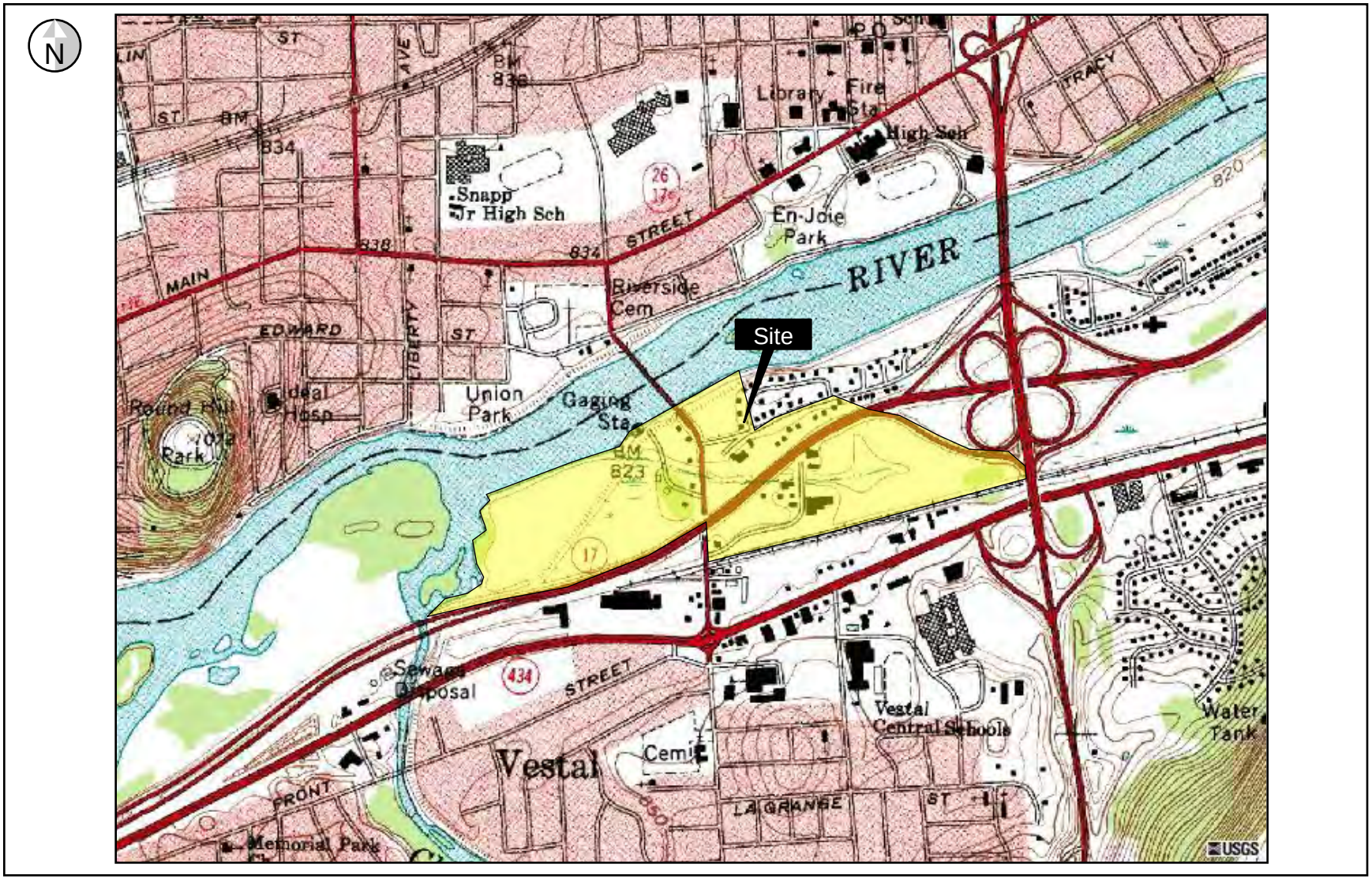
** Well 1-2A was frozen and unable to be sampled

FIGURES

ARCADIS

Figure 1-1
Site Location
Vestal Water Supply Site
Vestal, New York
NYSDEC Site # 7-04-009A

0 2,000 ft



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

G:\PROJECT\00266401.0000\Reports\RSO Quarterly Reports

N.

N. MAIN ST.

OLD VESTAL RD.

GROUNDWATER TREATMENT PLANT

WELL 1-1A

WELL 1-1

SUSQUEHANNA RIVER

PUMPHOUSE RD.

WELL 1-3

WELL 1-2A

WELL 1-2

4009-1
4009-2
4009-3
4009-4
4009-5
4009-6
4009-7
4009-8
4009-9
4009-10
4009-11
4009-11A
4009-12
4009-12A
4009-13
4009-13A
4009-14
4009-15
4009-16
4009-16A
4009-17
4009-18
4009-19
4009-20
4009-21
4009-22
4009-23S
4009-23D
4009-24
4009-25S
4009-25D
4009-26
4009-27S
4009-27I
4009-27D
4009-28
4009-29S
4009-29I
4009-29D
ERT-1S
ERT-1D
ERT-1I
ERT-3S
ERT-3I
ERT-3D
ERT-4S
ERT-4I
ERT-4D
ERT-7
ERT-8

STAGE RD.

NYS ROUTE 17

NYS ROUTE 434

LEGEND

- APPROXIMATE MONITORING WELL LOCATION
- ROADWAY/DRIVEWAY
- BUILDING
- EDGE OF RIVER

150 0 150 300

SCALE: 1"=300'

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

ARCADIS

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

MONITORINIG WELL LOCATION MAP

SCALE: AS SHOWN

JUNE 2016
FIGURE 2-1

LEGEND

Well 1-1A — EXTRACTION WELL & IDENTIFIER

4009-16A
804.12 — MONITORING WELL & IDENTIFIER (Groundwater Elevation – 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

Shallow Potentiometric Surface with Well 1-1A Inactive (June 1, 2016)

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Figure 2-2

LEGEND

- Well 1-1A — EXTRACTION WELL & IDENTIFIER
- 4009-12A / 803.75 — MONITORING WELL & IDENTIFIER (Groundwater Elevation – 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 (June 1, 2016)

ARCADIS

Figure **2-3**

LEGEND

Well 1-1A
EXTRACTION WELL & IDENTIFIER

4009-15
804.01
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)

805
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

Deep Potentiometric Surface with Well 1-1A Inactive (June 1, 2016)

ARCADIS

Figure **2-4**

LEGEND

Well 1-3 — WATER SUPPLY WELL & IDENTIFIER

4009-7 / 42.8 — MONITORING WELL & IDENTIFIER; Total VOC Concentration(ug/L); "ND" indicates no detection

Well 1-1 — EXTRACTION WELL & IDENTIFIER

TOTAL VOCS (ug/l)

- 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

0 350 700

APPROXIMATE SCALE IN FEET

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

Total VOC Concentrations (Shallow Wells) June 30, 2016

ARCADIS

Figure **2-5**

LEGEND

Well 1-3 — WATER SUPPLY WELL & IDENTIFIER

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

Well 1-1 — EXTRACTION WELL & IDENTIFIER

TOTAL VOCS (ug/l)

- 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

0 350 700

APPROXIMATE SCALE IN FEET

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

Total VOC Concentrations (Intermediate Wells)
June 30, 2016

ARCADIS

Figure **2-6**

LEGEND

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

TOTAL VOCS (ug/l)

- 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

0 350 700

APPROXIMATE SCALE IN FEET

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

Total VOC Concentrations (Deep Wells) June 30, 2016

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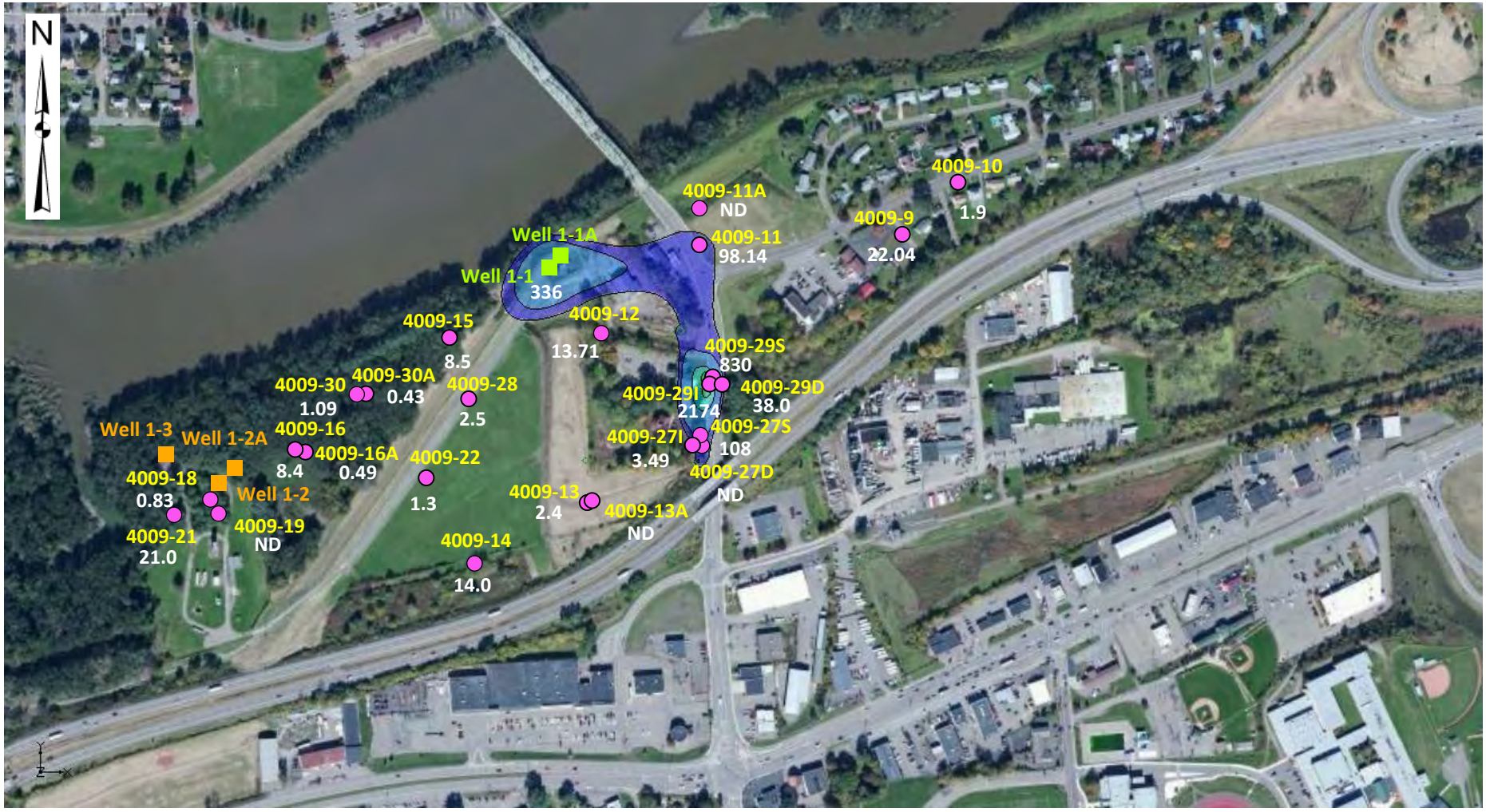
Figure 2-7



LEGEND

Well 1-3 — WATER SUPPLY WELL & IDENTIFIER

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

Well 1-1 — EXTRACTION WELL & IDENTIFIER

TOTAL VOCS (ug/l)

- 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

0 — 350 — 700

APPROXIMATE SCALE IN FEET

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

Total VOC Concentrations (All Wells)
June 30, 2016

ARCADIS

Figure **2-8**

LEGEND

Well 1-3 — WATER SUPPLY WELL & IDENTIFIER

4009-7 / 42.8 — MONITORING WELL & IDENTIFIER; Benzene Concentration(ug/L); "ND" indicates no detection

Well 1-1 — EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)

- 1.0 - 5.0
- 5.0 - 10
- 10 – 50 +

0 350 700

APPROXIMATE SCALE IN FEET

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

Benzene Concentrations (Shallow Wells) June 30, 2016

ARCADIS

Figure **2-9**

LEGEND

Well 1-3 — WATER SUPPLY WELL & IDENTIFIER

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

Well 1-1 — EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)

- 1.0 - 5.0
- 5.0 - 10
- 10 – 50 +

0 350 700

APPROXIMATE SCALE IN FEET

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

Benzene Concentrations (Intermediate Wells)
June 30, 2016

ARCADIS

Figure **2-10**

LEGEND

Well 1-3 — WATER SUPPLY WELL & IDENTIFIER

4009-15 — MONITORING WELL & IDENTIFIER

1.1 — Benzene Concentration(ug/L); "ND" indicates no detection

Well 1-1 — EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)

- 1.0 - 5.0
- 5.0 - 10
- 10 – 50 +

0 350 700

APPROXIMATE SCALE IN FEET

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

Benzene Concentrations (Deep Wells)
June 30, 2016

ARCADIS

Figure **2-11**

LEGEND

- Well 1-3 — WATER SUPPLY WELL & IDENTIFIER
- 4009-7 / 55.7 — MONITORING WELL & IDENTIFIER; Benzene Concentration(ug/L); "ND" indicates no detection
- Well 1-1 — EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)

- 1.0 - 5.0
- 5.0 - 10
- 10 – 50 +

0 350 700

APPROXIMATE SCALE IN FEET

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

Benzene Concentrations (All Wells)
June 30, 2016

ARCADIS

Figure **2-12**

APPENDIX A

Analytical Reporting Forms (TestAmerica Laboratories, Inc. and Microbac Laboratory Services)

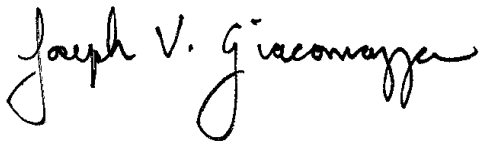
ANALYTICAL REPORT

Job Number: 480-102539-1

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
7/8/2016 4:03 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
07/08/2016

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

Table of Contents

Table of Contents

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	*	Duplicate RPD exceeds control limits
	J	Indicates an estimated value.
	*	LCS or LCSD is outside acceptance limits.
	*	MS or MSD is outside acceptance limits.
	*	RPD of the LCS and LCSD exceeds the control limits

Job Narrative
480-102539-1

Receipt
The samples were received on 7/2/2016 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.1° C.

GC/MS VOA
Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: WELL 1-1 (480-102539-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-309873 recovered outside acceptance criteria, low biased, for 2-Hexanone. 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. The following samples are impacted: 4009-27S (480-102539-16), 4009-27I (480-102539-17), 4009-27D (480-102539-18), 4009-28 (480-102539-19), 4009-29S (480-102539-20), 4009-29I (480-102539-21), 4009-29D (480-102539-22), 4009-30 (480-102539-23), 4009-30A (480-102539-24), 4009-11A (480-102539-25) and DUP-2_20160630 (480-102539-27).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-29S (480-102539-20), 4009-29I (480-102539-21) and DUP-2_20160630 (480-102539-27). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for batch 480-309962 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 2-Hexanone and Acetone.

Method(s) 8260C: The laboratory control spike duplicate (LCSD) for analytical batch 480-309962 exceeded control limits for the following analyte: Methyl acetate. Note that this analyte is a known poor performer when analyzed using this method.

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: 480-102539-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-102539-1	WELL 1-1	Water	06/30/2016 0930	07/02/2016 0100
480-102539-2	4009-9	Water	06/30/2016 1335	07/02/2016 0100
480-102539-3	4009-10	Water	06/30/2016 1340	07/02/2016 0100
480-102539-4	4009-11	Water	06/30/2016 1357	07/02/2016 0100
480-102539-5	4009-12	Water	06/30/2016 1210	07/02/2016 0100
480-102539-6	4009-13	Water	06/30/2016 1305	07/02/2016 0100
480-102539-7	4009-13A	Water	06/30/2016 1310	07/02/2016 0100
480-102539-8	4009-14	Water	06/30/2016 1015	07/02/2016 0100
480-102539-8MS	4009-14	Water	06/30/2016 1015	07/02/2016 0100
480-102539-8MSD	4009-14	Water	06/30/2016 1015	07/02/2016 0100
480-102539-9	4009-15	Water	06/30/2016 1140	07/02/2016 0100
480-102539-10	4009-16	Water	06/30/2016 1120	07/02/2016 0100
480-102539-11	4009-16A	Water	06/30/2016 1125	07/02/2016 0100
480-102539-12	4009-18	Water	06/30/2016 1040	07/02/2016 0100
480-102539-13	4009-19	Water	06/30/2016 1100	07/02/2016 0100
480-102539-14	4009-21	Water	06/30/2016 1050	07/02/2016 0100
480-102539-15	4009-22	Water	06/30/2016 1010	07/02/2016 0100
480-102539-16	4009-27S	Water	06/30/2016 1300	07/02/2016 0100
480-102539-17	4009-27I	Water	06/30/2016 1255	07/02/2016 0100
480-102539-17MS	4009-27I	Water	06/30/2016 1255	07/02/2016 0100
480-102539-17MSD	4009-27I	Water	06/30/2016 1255	07/02/2016 0100
480-102539-18	4009-27D	Water	06/30/2016 1250	07/02/2016 0100
480-102539-19	4009-28	Water	06/30/2016 0955	07/02/2016 0100
480-102539-20	4009-29S	Water	06/30/2016 1230	07/02/2016 0100
480-102539-21	4009-29I	Water	06/30/2016 1235	07/02/2016 0100
480-102539-22	4009-29D	Water	06/30/2016 1240	07/02/2016 0100
480-102539-23	4009-30	Water	06/30/2016 1135	07/02/2016 0100
480-102539-24	4009-30A	Water	06/30/2016 1130	07/02/2016 0100
480-102539-25	4009-11A	Water	06/30/2016 1355	07/02/2016 0100
480-102539-26	DUP-1_20160630	Water	06/30/2016 0000	07/02/2016 0100
480-102539-27	DUP-2_20160630	Water	06/30/2016 0000	07/02/2016 0100
480-102539-28	FIELD BLANK	Water	06/30/2016 0935	07/02/2016 0100
480-102539-29	TRIP BLANK	Water	06/30/2016 0000	07/02/2016 0100

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-102539-1	**WELL 1-1**					
1,1,1-Trichloroethane		210		5.0	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane		4.3	J	5.0	ug/L	8260C
1,1-Dichloroethane		14		5.0	ug/L	8260C
cis-1,2-Dichloroethene		52		5.0	ug/L	8260C
Trichloroethene		56		5.0	ug/L	8260C
480-102539-2	**4009-9**					
1,1-Dichloroethane		0.39	J	1.0	ug/L	8260C
cis-1,2-Dichloroethene		21		1.0	ug/L	8260C
Trichloroethene		0.65	J	1.0	ug/L	8260C
480-102539-3	**4009-10**					
Benzene		1.9		1.0	ug/L	8260C
480-102539-4	**4009-11**					
1,1,1-Trichloroethane		57		1.0	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane		0.74	J	1.0	ug/L	8260C
1,1-Dichloroethane		13		1.0	ug/L	8260C
1,1-Dichloroethene		3.4		1.0	ug/L	8260C
Chloroethane		1.2		1.0	ug/L	8260C
cis-1,2-Dichloroethene		8.8		1.0	ug/L	8260C
Vinyl chloride		14		1.0	ug/L	8260C
480-102539-5	**4009-12**					
1,1-Dichloroethane		2.9		1.0	ug/L	8260C
Benzene		7.5		1.0	ug/L	8260C
cis-1,2-Dichloroethene		1.1		1.0	ug/L	8260C
Trichloroethene		0.81	J	1.0	ug/L	8260C
Vinyl chloride		1.4		1.0	ug/L	8260C
480-102539-6	**4009-13**					
Acetone		3.5	J	10	ug/L	8260C
Benzene		2.4		1.0	ug/L	8260C
480-102539-8	**4009-14**					
Acetone		4.1	J	10	ug/L	8260C
Benzene		14		1.0	ug/L	8260C

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-102539-9	**4009-15**					
Acetone		9.1	J	10	ug/L	8260C
Benzene		8.5		1.0	ug/L	8260C
480-102539-10	**4009-16**					
Acetone		4.5	J	10	ug/L	8260C
Benzene		8.4		1.0	ug/L	8260C
480-102539-11	**4009-16A**					
Benzene		0.49	J	1.0	ug/L	8260C
480-102539-12	**4009-18**					
1,1,1-Trichloroethane		0.83	J	1.0	ug/L	8260C
480-102539-14	**4009-21**					
Benzene		21		1.0	ug/L	8260C
480-102539-15	**4009-22**					
Acetone		4.0	J	10	ug/L	8260C
Benzene		1.3		1.0	ug/L	8260C
480-102539-16	**4009-27S**					
1,1,1-Trichloroethane		54		1.0	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane		2.7		1.0	ug/L	8260C
1,1-Dichloroethane		2.1		1.0	ug/L	8260C
1,1-Dichloroethene		5.0		1.0	ug/L	8260C
cis-1,2-Dichloroethene		20		1.0	ug/L	8260C
Trichloroethene		23		1.0	ug/L	8260C
Vinyl chloride		1.2		1.0	ug/L	8260C
480-102539-17	**4009-27I**					
1,1,1-Trichloroethane		1.3		1.0	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane		0.40	J	1.0	ug/L	8260C
Benzene		0.95	J	1.0	ug/L	8260C
Trichloroethene		0.84	J	1.0	ug/L	8260C
480-102539-19	**4009-28**					
1,1,1-Trichloroethane		2.5		1.0	ug/L	8260C

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-102539-20	**4009-29S**					
1,1,1-Trichloroethane		460		20	ug/L	8260C
1,1-Dichloroethane		69		20	ug/L	8260C
1,1-Dichloroethene		33		20	ug/L	8260C
cis-1,2-Dichloroethene		190		20	ug/L	8260C
Vinyl chloride		78		20	ug/L	8260C
480-102539-21	**4009-29I**					
1,1,1-Trichloroethane		1200		25	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane		15	J	25	ug/L	8260C
1,1-Dichloroethane		71		25	ug/L	8260C
1,1-Dichloroethene		93		25	ug/L	8260C
cis-1,2-Dichloroethene		340		25	ug/L	8260C
Trichloroethene		370		25	ug/L	8260C
Vinyl chloride		85		25	ug/L	8260C
480-102539-22	**4009-29D**					
1,1,1-Trichloroethane		16		1.0	ug/L	8260C
1,1-Dichloroethane		4.0		1.0	ug/L	8260C
1,1-Dichloroethene		1.3		1.0	ug/L	8260C
Chloroethane		1.5		1.0	ug/L	8260C
cis-1,2-Dichloroethene		5.7		1.0	ug/L	8260C
Trichloroethene		2.0		1.0	ug/L	8260C
Vinyl chloride		7.5		1.0	ug/L	8260C
480-102539-23	**4009-30**					
1,1-Dichloroethane		0.65	J	1.0	ug/L	8260C
Acetone		7.3	J	10	ug/L	8260C
Benzene		0.44	J	1.0	ug/L	8260C
480-102539-24	**4009-30A**					
Benzene		0.43	J	1.0	ug/L	8260C
480-102539-25	**4009-11A**					
Acetone		3.5	J	10	ug/L	8260C

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-102539-26	**DUP-1_20160630**					
1,1-Dichloroethane		2.8		1.0	ug/L	8260C
Acetone		3.1	J *	10	ug/L	8260C
Benzene		8.0		1.0	ug/L	8260C
Carbon disulfide		0.25	J	1.0	ug/L	8260C
cis-1,2-Dichloroethene		1.2		1.0	ug/L	8260C
Trichloroethene		0.81	J	1.0	ug/L	8260C
Vinyl chloride		1.3		1.0	ug/L	8260C
480-102539-27	**DUP-2_20160630**					
1,1,1-Trichloroethane		1300		25	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane		15	J	25	ug/L	8260C
1,1-Dichloroethane		74		25	ug/L	8260C
1,1-Dichloroethene		92		25	ug/L	8260C
cis-1,2-Dichloroethene		340		25	ug/L	8260C
Trichloroethene		390		25	ug/L	8260C
Vinyl chloride		100		25	ug/L	8260C
480-102539-28	**FIELD BLANK**					
Acetone		4.2	J *	10	ug/L	8260C

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Method	Analyst	Analyst ID
SW846 8260C	Cwiklinski, Charles D	CDC
SW846 8260C	Youngman, Shawna M	SMY

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: WELL 1-1

Lab Sample ID: 480-102539-1
Client Matrix: Water

Date Sampled: 06/30/2016 0930
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7814.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0143			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	210		4.1	5.0
1,1,2,2-Tetrachloroethane	5.0	U	1.1	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	4.3	J	1.6	5.0
1,1,2-Trichloroethane	5.0	U	1.2	5.0
1,1-Dichloroethane	14		1.9	5.0
1,1-Dichloroethene	5.0	U	1.5	5.0
1,2,3-Trimethylbenzene	5.0	U	1.3	5.0
1,2,4-Trichlorobenzene	5.0	U	2.1	5.0
1,2,4-Trimethylbenzene	5.0	U	3.8	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	2.0	5.0
1,2-Dibromoethane	5.0	U	3.7	5.0
1,2-Dichlorobenzene	5.0	U	4.0	5.0
1,2-Dichloroethane	5.0	U	1.1	5.0
1,2-Dichloropropane	5.0	U	3.6	5.0
1,3,5-Trimethylbenzene	5.0	U	3.9	5.0
1,3-Dichlorobenzene	5.0	U	3.9	5.0
1,4-Dichlorobenzene	5.0	U	4.2	5.0
2-Butanone (MEK)	50	U	6.6	50
2-Hexanone	25	U	6.2	25
4-Methyl-2-pentanone (MIBK)	25	U	11	25
Acetone	50	U	15	50
Benzene	5.0	U	2.1	5.0
Bromodichloromethane	5.0	U	2.0	5.0
Bromoform	5.0	U	1.3	5.0
Bromomethane	5.0	U	3.5	5.0
Carbon disulfide	5.0	U	0.95	5.0
Carbon tetrachloride	5.0	U	1.4	5.0
Chlorobenzene	5.0	U	3.8	5.0
Chloroethane	5.0	U	1.6	5.0
Chloroform	5.0	U	1.7	5.0
Chloromethane	5.0	U	1.8	5.0
cis-1,2-Dichloroethene	52		4.1	5.0
cis-1,3-Dichloropropene	5.0	U	1.8	5.0
Cyclohexane	5.0	U	0.90	5.0
Dibromochloromethane	5.0	U	1.6	5.0
Dichlorodifluoromethane	5.0	U	3.4	5.0
Ethylbenzene	5.0	U	3.7	5.0
Isopropylbenzene	5.0	U	4.0	5.0
Methyl acetate	13	U	6.5	13
Methyl tert-butyl ether	5.0	U	0.80	5.0
Methylcyclohexane	5.0	U	0.80	5.0
Methylene Chloride	5.0	U	2.2	5.0
Styrene	5.0	U	3.7	5.0
Tetrachloroethene	5.0	U	1.8	5.0
Toluene	5.0	U	2.6	5.0
trans-1,2-Dichloroethene	5.0	U	4.5	5.0

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: **WELL 1-1**

Lab Sample ID: 480-102539-1
Client Matrix: Water

Date Sampled: 06/30/2016 0930
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7814.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0143			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0143				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	5.0	U	1.9	5.0
Trichloroethene	56		2.3	5.0
Trichlorofluoromethane	5.0	U	4.4	5.0
Vinyl chloride	5.0	U	4.5	5.0
Xylenes, Total	10	U	3.3	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	100		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-9

Lab Sample ID: 480-102539-2
Client Matrix: Water

Date Sampled: 06/30/2016 1335
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7815.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0210			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0210				

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-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	0.39	J	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	21		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-9

Lab Sample ID: 480-102539-2
Client Matrix: Water

Date Sampled: 06/30/2016 1335
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7815.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0210			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0210				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	0.65	J	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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	92		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-10

Lab Sample ID: 480-102539-3
Client Matrix: Water

Date Sampled: 06/30/2016 1340
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7816.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0237			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0237				

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-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	1.9		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-10

Lab Sample ID: 480-102539-3
Client Matrix: Water

Date Sampled: 06/30/2016 1340
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7816.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0237			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0237				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-11

Lab Sample ID: 480-102539-4
Client Matrix: Water

Date Sampled: 06/30/2016 1357
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7817.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0304			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0304				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	57		0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.74	J	0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	13		0.38	1.0
1,1-Dichloroethene	3.4		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	1.2		0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	8.8		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-11

Lab Sample ID: 480-102539-4
Client Matrix: Water

Date Sampled: 06/30/2016 1357
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7817.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0304			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0304				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	14		0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-12

Lab Sample ID: 480-102539-5
Client Matrix: Water

Date Sampled: 06/30/2016 1210
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7818.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0331			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0331				

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-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	2.9		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	7.5		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	1.1		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-12

Lab Sample ID: 480-102539-5
Client Matrix: Water

Date Sampled: 06/30/2016 1210
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7818.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0331			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0331				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	0.81	J	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.4		0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	102		60 - 140
Toluene-d8 (Surr)	96		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-13

Lab Sample ID: 480-102539-6
Client Matrix: Water

Date Sampled: 06/30/2016 1305
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7819.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0359			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0359				

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-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	3.5	J	3.0	10
Benzene	2.4		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-13

Lab Sample ID: 480-102539-6
Client Matrix: Water

Date Sampled: 06/30/2016 1305
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7819.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0359			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0359				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	101		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-13A

Lab Sample ID: 480-102539-7
Client Matrix: Water

Date Sampled: 06/30/2016 1310
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7820.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0426			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0426				

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-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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-13A

Lab Sample ID: 480-102539-7
Client Matrix: Water

Date Sampled: 06/30/2016 1310
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7820.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0426			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0426				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	105		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-14

Lab Sample ID: 480-102539-8
Client Matrix: Water

Date Sampled: 06/30/2016 1015
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7821.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0453			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0453				

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-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	4.1	J	3.0	10
Benzene	14		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-14

Lab Sample ID: 480-102539-8
Client Matrix: Water

Date Sampled: 06/30/2016 1015
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7821.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0453			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0453				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Client Sample ID: 4009-15

Lab Sample ID: 480-102539-9 Date Sampled: 06/30/2016 1140
Client Matrix: Water Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7822.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0520			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0520				

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-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	9.1	J	3.0	10
Benzene	8.5		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-15

Lab Sample ID: 480-102539-9
Client Matrix: Water

Date Sampled: 06/30/2016 1140
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7822.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0520			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0520				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Client Sample ID: 4009-16

Lab Sample ID: 480-102539-10 Date Sampled: 06/30/2016 1120
Client Matrix: Water Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7823.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0548			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0548				

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-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	4.5	J	3.0	10
Benzene	8.4		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-16

Lab Sample ID: 480-102539-10
Client Matrix: Water

Date Sampled: 06/30/2016 1120
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7823.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0548			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0548				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-16A

Lab Sample ID: 480-102539-11
Client Matrix: Water

Date Sampled: 06/30/2016 1125
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7824.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0615			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0615				

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-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	0.49	J	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: **4009-16A**

Lab Sample ID: 480-102539-11
Client Matrix: Water

Date Sampled: 06/30/2016 1125
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7824.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0615			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0615				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140
Toluene-d8 (Surr)	96		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-18

Lab Sample ID: 480-102539-12
Client Matrix: Water

Date Sampled: 06/30/2016 1040
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7825.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0642			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0642				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.83	J	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-18

Lab Sample ID: 480-102539-12
Client Matrix: Water

Date Sampled: 06/30/2016 1040
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7825.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0642			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0642				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-19

Lab Sample ID: 480-102539-13
Client Matrix: Water

Date Sampled: 06/30/2016 1100
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7826.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0709			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0709				

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-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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-19

Lab Sample ID: 480-102539-13
Client Matrix: Water

Date Sampled: 06/30/2016 1100
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7826.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0709			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0709				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	107		60 - 140
Toluene-d8 (Surr)	97		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-21

Lab Sample ID: 480-102539-14
Client Matrix: Water

Date Sampled: 06/30/2016 1050
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7827.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0737			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0737				

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-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	21		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-21

Lab Sample ID: 480-102539-14
Client Matrix: Water

Date Sampled: 06/30/2016 1050
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7827.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0737			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0737				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	105		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Client Sample ID: 4009-22

Lab Sample ID: 480-102539-15 Date Sampled: 06/30/2016 1010
Client Matrix: Water Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7828.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0804			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0804				

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-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	4.0	J	3.0	10
Benzene	1.3		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Client Sample ID: 4009-22

Lab Sample ID: 480-102539-15 Date Sampled: 06/30/2016 1010
Client Matrix: Water Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7828.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0804			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0804				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	92		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-27S

Lab Sample ID: 480-102539-16
Client Matrix: Water

Date Sampled: 06/30/2016 1300
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7841.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1403			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1403				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	54		0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.7		0.31	1.0
1,1,2-Trichloroethane	1.0	U	0.23	1.0
1,1-Dichloroethane	2.1		0.38	1.0
1,1-Dichloroethene	5.0		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	20		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: **4009-27S**

Lab Sample ID: 480-102539-16
Client Matrix: Water

Date Sampled: 06/30/2016 1300
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7841.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1403			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1403				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	23		0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.2		0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	99		60 - 140
Toluene-d8 (Surr)	98		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-27I

Lab Sample ID: 480-102539-17
Client Matrix: Water

Date Sampled: 06/30/2016 1255
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7842.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1430			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1.3		0.82	1.0
1,1,2,2-Tetrachloroethane	1.0	U	0.21	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.40	J	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	0.95	J	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: **4009-27I**

Lab Sample ID: 480-102539-17
Client Matrix: Water

Date Sampled: 06/30/2016 1255
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7842.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1430			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1430				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	0.84	J	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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-27D

Lab Sample ID: 480-102539-18
Client Matrix: Water

Date Sampled: 06/30/2016 1250
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7843.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1458			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1458				

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-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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-27D

Lab Sample ID: 480-102539-18
Client Matrix: Water

Date Sampled: 06/30/2016 1250
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7843.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1458			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1458				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	92		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-28

Lab Sample ID: 480-102539-19
Client Matrix: Water

Date Sampled: 06/30/2016 0955
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7844.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1525			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1525				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	2.5		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-28

Lab Sample ID: 480-102539-19
Client Matrix: Water

Date Sampled: 06/30/2016 0955
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7844.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1525			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1525				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-102539-20
Client Matrix: Water

Date Sampled: 06/30/2016 1230
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7845.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1553			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1553				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	460		16	20
1,1,2,2-Tetrachloroethane	20	U	4.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	6.2	20
1,1,2-Trichloroethane	20	U	4.6	20
1,1-Dichloroethane	69		7.6	20
1,1-Dichloroethene	33		5.8	20
1,2,3-Trimethylbenzene	20	U	5.2	20
1,2,4-Trichlorobenzene	20	U	8.2	20
1,2,4-Trimethylbenzene	20	U	15	20
1,2-Dibromo-3-Chloropropane	20	U	7.8	20
1,2-Dibromoethane	20	U	15	20
1,2-Dichlorobenzene	20	U	16	20
1,2-Dichloroethane	20	U	4.2	20
1,2-Dichloropropane	20	U	14	20
1,3,5-Trimethylbenzene	20	U	15	20
1,3-Dichlorobenzene	20	U	16	20
1,4-Dichlorobenzene	20	U	17	20
2-Butanone (MEK)	200	U	26	200
2-Hexanone	100	U	25	100
4-Methyl-2-pentanone (MIBK)	100	U	42	100
Acetone	200	U	60	200
Benzene	20	U	8.2	20
Bromodichloromethane	20	U	7.8	20
Bromoform	20	U	5.2	20
Bromomethane	20	U	14	20
Carbon disulfide	20	U	3.8	20
Carbon tetrachloride	20	U	5.4	20
Chlorobenzene	20	U	15	20
Chloroethane	20	U	6.4	20
Chloroform	20	U	6.8	20
Chloromethane	20	U	7.0	20
cis-1,2-Dichloroethene	190		16	20
cis-1,3-Dichloropropene	20	U	7.2	20
Cyclohexane	20	U	3.6	20
Dibromochloromethane	20	U	6.4	20
Dichlorodifluoromethane	20	U	14	20
Ethylbenzene	20	U	15	20
Isopropylbenzene	20	U	16	20
Methyl acetate	50	U	26	50
Methyl tert-butyl ether	20	U	3.2	20
Methylcyclohexane	20	U	3.2	20
Methylene Chloride	20	U	8.8	20
Styrene	20	U	15	20
Tetrachloroethene	20	U	7.2	20
Toluene	20	U	10	20
trans-1,2-Dichloroethene	20	U	18	20

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-102539-20 Date Sampled: 06/30/2016 1230
Client Matrix: Water Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7845.D
Dilution:	20			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1553			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1553				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	20	U	7.4	20
Trichloroethene	20	U	9.2	20
Trichlorofluoromethane	20	U	18	20
Vinyl chloride	78		18	20
Xylenes, Total	40	U	13	40

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	93		71 - 126

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Client Sample ID: 4009-29I

Lab Sample ID: 480-102539-21 Date Sampled: 06/30/2016 1235
Client Matrix: Water Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7846.D
Dilution:	25			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1620			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1620				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1200		21	25
1,1,2,2-Tetrachloroethane	25	U	5.3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	7.8	25
1,1,2-Trichloroethane	25	U	5.8	25
1,1-Dichloroethane	71		9.5	25
1,1-Dichloroethene	93		7.3	25
1,2,3-Trimethylbenzene	25	U	6.5	25
1,2,4-Trichlorobenzene	25	U	10	25
1,2,4-Trimethylbenzene	25	U	19	25
1,2-Dibromo-3-Chloropropane	25	U	9.8	25
1,2-Dibromoethane	25	U	18	25
1,2-Dichlorobenzene	25	U	20	25
1,2-Dichloroethane	25	U	5.3	25
1,2-Dichloropropane	25	U	18	25
1,3,5-Trimethylbenzene	25	U	19	25
1,3-Dichlorobenzene	25	U	20	25
1,4-Dichlorobenzene	25	U	21	25
2-Butanone (MEK)	250	U	33	250
2-Hexanone	130	U	31	130
4-Methyl-2-pentanone (MIBK)	130	U	53	130
Acetone	250	U	75	250
Benzene	25	U	10	25
Bromodichloromethane	25	U	9.8	25
Bromoform	25	U	6.5	25
Bromomethane	25	U	17	25
Carbon disulfide	25	U	4.8	25
Carbon tetrachloride	25	U	6.8	25
Chlorobenzene	25	U	19	25
Chloroethane	25	U	8.0	25
Chloroform	25	U	8.5	25
Chloromethane	25	U	8.8	25
cis-1,2-Dichloroethene	340		20	25
cis-1,3-Dichloropropene	25	U	9.0	25
Cyclohexane	25	U	4.5	25
Dibromochloromethane	25	U	8.0	25
Dichlorodifluoromethane	25	U	17	25
Ethylbenzene	25	U	19	25
Isopropylbenzene	25	U	20	25
Methyl acetate	63	U	33	63
Methyl tert-butyl ether	25	U	4.0	25
Methylcyclohexane	25	U	4.0	25
Methylene Chloride	25	U	11	25
Styrene	25	U	18	25
Tetrachloroethene	25	U	9.0	25
Toluene	25	U	13	25
trans-1,2-Dichloroethene	25	U	23	25

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-29I

Lab Sample ID: 480-102539-21
Client Matrix: Water

Date Sampled: 06/30/2016 1235
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7846.D
Dilution:	25			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1620			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1620				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	25	U	9.3	25
Trichloroethene	370		12	25
Trichlorofluoromethane	25	U	22	25
Vinyl chloride	85		23	25
Xylenes, Total	50	U	17	50

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	106		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-102539-22
Client Matrix: Water

Date Sampled: 06/30/2016 1240
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7847.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1648			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	16		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	4.0		0.38	1.0
1,1-Dichloroethene	1.3		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	1.5		0.32	1.0
Chloroform	1.0	U	0.34	1.0
Chloromethane	1.0	U	0.35	1.0
cis-1,2-Dichloroethene	5.7		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-102539-22
Client Matrix: Water

Date Sampled: 06/30/2016 1240
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7847.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1648			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	2.0		0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	7.5		0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	107		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-30

Lab Sample ID: 480-102539-23
Client Matrix: Water

Date Sampled: 06/30/2016 1135
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7848.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1716			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1716				

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-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	0.65	J	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	7.3	J	3.0	10
Benzene	0.44	J	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-30

Lab Sample ID: 480-102539-23
Client Matrix: Water

Date Sampled: 06/30/2016 1135
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7848.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1716			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1716				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-30A

Lab Sample ID: 480-102539-24
Client Matrix: Water

Date Sampled: 06/30/2016 1130
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7849.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1743			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1743				

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-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	0.43	J	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: 4009-30A

Lab Sample ID: 480-102539-24
Client Matrix: Water

Date Sampled: 06/30/2016 1130
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7849.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1743			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1743				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	105		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Client Sample ID: 4009-11A

Lab Sample ID: 480-102539-25 Date Sampled: 06/30/2016 1355
Client Matrix: Water Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7850.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1948			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1948				

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-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	3.5	J	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: **4009-11A**

Lab Sample ID: 480-102539-25
Client Matrix: Water

Date Sampled: 06/30/2016 1355
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7850.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1948			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1948				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	95		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: **DUP-1_20160630**

Lab Sample ID: 480-102539-26
Client Matrix: Water

Date Sampled: 06/30/2016 0000
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7863.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/07/2016 0111			Final Weight/Volume:	5 mL
Prep Date:	07/07/2016 0111				

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-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	2.8		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	3.1	J *	3.0	10
Benzene	8.0		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	0.25	J	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	1.2		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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U *	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: **DUP-1_20160630**

Lab Sample ID: 480-102539-26
Client Matrix: Water

Date Sampled: 06/30/2016 0000
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7863.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/07/2016 0111			Final Weight/Volume:	5 mL
Prep Date:	07/07/2016 0111				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	1.0	U	0.37	1.0
Trichloroethene	0.81	J	0.46	1.0
Trichlorofluoromethane	1.0	U	0.88	1.0
Vinyl chloride	1.3		0.90	1.0
Xylenes, Total	2.0	U	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
4-Bromofluorobenzene (Surr)	98		73 - 120
Dibromofluoromethane (Surr)	105		60 - 140
Toluene-d8 (Surr)	100		71 - 126

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Client Sample ID: **DUP-2_20160630**

Lab Sample ID: 480-102539-27 Date Sampled: 06/30/2016 0000
Client Matrix: Water Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7852.D
Dilution:	25			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 2043			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 2043				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	1300		21	25
1,1,2,2-Tetrachloroethane	25	U	5.3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	7.8	25
1,1,2-Trichloroethane	25	U	5.8	25
1,1-Dichloroethane	74		9.5	25
1,1-Dichloroethene	92		7.3	25
1,2,3-Trimethylbenzene	25	U	6.5	25
1,2,4-Trichlorobenzene	25	U	10	25
1,2,4-Trimethylbenzene	25	U	19	25
1,2-Dibromo-3-Chloropropane	25	U	9.8	25
1,2-Dibromoethane	25	U	18	25
1,2-Dichlorobenzene	25	U	20	25
1,2-Dichloroethane	25	U	5.3	25
1,2-Dichloropropane	25	U	18	25
1,3,5-Trimethylbenzene	25	U	19	25
1,3-Dichlorobenzene	25	U	20	25
1,4-Dichlorobenzene	25	U	21	25
2-Butanone (MEK)	250	U	33	250
2-Hexanone	130	U	31	130
4-Methyl-2-pentanone (MIBK)	130	U	53	130
Acetone	250	U	75	250
Benzene	25	U	10	25
Bromodichloromethane	25	U	9.8	25
Bromoform	25	U	6.5	25
Bromomethane	25	U	17	25
Carbon disulfide	25	U	4.8	25
Carbon tetrachloride	25	U	6.8	25
Chlorobenzene	25	U	19	25
Chloroethane	25	U	8.0	25
Chloroform	25	U	8.5	25
Chloromethane	25	U	8.8	25
cis-1,2-Dichloroethene	340		20	25
cis-1,3-Dichloropropene	25	U	9.0	25
Cyclohexane	25	U	4.5	25
Dibromochloromethane	25	U	8.0	25
Dichlorodifluoromethane	25	U	17	25
Ethylbenzene	25	U	19	25
Isopropylbenzene	25	U	20	25
Methyl acetate	63	U	33	63
Methyl tert-butyl ether	25	U	4.0	25
Methylcyclohexane	25	U	4.0	25
Methylene Chloride	25	U	11	25
Styrene	25	U	18	25
Tetrachloroethene	25	U	9.0	25
Toluene	25	U	13	25
trans-1,2-Dichloroethene	25	U	23	25

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: **DUP-2_20160630**

Lab Sample ID: 480-102539-27
Client Matrix: Water

Date Sampled: 06/30/2016 0000
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7852.D
Dilution:	25			Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 2043			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 2043				

Analyte	Result (ug/L)	Qualifier	MDL	RL
trans-1,3-Dichloropropene	25	U	9.3	25
Trichloroethene	390		12	25
Trichlorofluoromethane	25	U	22	25
Vinyl chloride	100		23	25
Xylenes, Total	50	U	17	50

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
4-Bromofluorobenzene (Surr)	90		73 - 120
Dibromofluoromethane (Surr)	107		60 - 140
Toluene-d8 (Surr)	94		71 - 126

Client Sample ID: **FIELD BLANK**

Lab Sample ID: 480-102539-28 Date Sampled: 06/30/2016 0935
Client Matrix: Water Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7864.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/07/2016 0138			Final Weight/Volume:	5 mL
Prep Date:	07/07/2016 0138				

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-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	4.2	J *	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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U *	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: **FIELD BLANK**

Lab Sample ID: 480-102539-28
Client Matrix: Water

Date Sampled: 06/30/2016 0935
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7864.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/07/2016 0138			Final Weight/Volume:	5 mL
Prep Date:	07/07/2016 0138				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	103		60 - 140
Toluene-d8 (Surr)	100		71 - 126

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-102539-29 Date Sampled: 06/30/2016 0000
Client Matrix: Water Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7865.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/07/2016 0206			Final Weight/Volume:	5 mL
Prep Date:	07/07/2016 0206				

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-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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U *	1.3	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
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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-102539-29
Client Matrix: Water

Date Sampled: 06/30/2016 0000
Date Received: 07/02/2016 0100

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P7865.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/07/2016 0206			Final Weight/Volume:	5 mL
Prep Date:	07/07/2016 0206				

Analyte	Result (ug/L)	Qualifier	MDL	RL
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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	99		71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

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
480-102539-1	WELL 1-1	100	100	94	92
480-102539-2	4009-9	103	101	92	92
480-102539-3	4009-10	103	103	94	92
480-102539-4	4009-11	104	103	94	90
480-102539-5	4009-12	102	100	96	93
480-102539-6	4009-13	101	104	94	91
480-102539-7	4009-13A	105	103	97	94
480-102539-8	4009-14	104	102	94	90
480-102539-9	4009-15	106	104	94	90
480-102539-10	4009-16	106	104	95	92
480-102539-11	4009-16A	106	106	96	93
480-102539-12	4009-18	106	105	95	92
480-102539-13	4009-19	107	104	97	93
480-102539-14	4009-21	105	105	95	93
480-102539-15	4009-22	104	105	92	94
480-102539-16	4009-27S	99	101	98	95
480-102539-17	4009-27I	104	103	94	93
480-102539-18	4009-27D	103	102	92	91
480-102539-19	4009-28	103	105	95	93
480-102539-20	4009-29S	103	103	93	92
480-102539-21	4009-29I	106	108	95	93
480-102539-22	4009-29D	107	105	94	91
480-102539-23	4009-30	104	102	95	94
480-102539-24	4009-30A	105	104	94	91
480-102539-25	4009-11A	104	102	95	92
480-102539-26	DUP-1_20160630	105	106	100	98
480-102539-27	DUP-2_20160630	107	107	94	90
480-102539-28	FIELD BLANK	103	103	100	100
480-102539-29	TRIP BLANK	104	105	99	97

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

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

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
MB 480-309812/6		99	98	94	95
MB 480-309873/6		98	101	96	96
MB 480-309962/6		105	104	100	99
LCS 480-309812/4		100	101	93	98
LCS 480-309873/4		103	103	95	101
LCS 480-309962/4		104	104	98	103
LCSD 480-309962/10		104	103	99	102
480-102539-8 MS	4009-14 MS	104	102	97	97
480-102539-17 MS	4009-27I MS	105	108	96	99
480-102539-8 MSD	4009-14 MSD	102	102	97	100
480-102539-17 MSD	4009-27I MSD	103	105	97	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

METHOD SUMMARY

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

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.

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Method Blank - Batch: 480-309812

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-309812/6	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7810.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2016 2340	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/05/2016 2340				
Leach Date:	N/A				

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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Method Blank - Batch: 480-309812

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-309812/6	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7810.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2016 2340	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/05/2016 2340				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
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)	98	66 - 137
4-Bromofluorobenzene (Surr)	95	73 - 120
Dibromofluoromethane (Surr)	99	60 - 140
Toluene-d8 (Surr)	94	71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Lab Control Sample - Batch: 480-309812

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-309812/4	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7808.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2016 2245	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/05/2016 2245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	25.0	24.2	97	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	22.0	88	70 - 126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.3	89	52 - 148	
1,1,2-Trichloroethane	25.0	22.1	88	76 - 122	
1,1-Dichloroethane	25.0	23.1	92	71 - 129	
1,1-Dichloroethene	25.0	22.7	91	58 - 121	
1,2,4-Trichlorobenzene	25.0	23.5	94	70 - 122	
1,2,4-Trimethylbenzene	25.0	24.1	97	76 - 121	
1,2-Dibromo-3-Chloropropane	25.0	22.0	88	56 - 134	
1,2-Dibromoethane	25.0	23.4	93	77 - 120	
1,2-Dichlorobenzene	25.0	22.5	90	80 - 124	
1,2-Dichloroethane	25.0	23.6	95	75 - 127	
1,2-Dichloropropane	25.0	23.2	93	76 - 120	
1,3,5-Trimethylbenzene	25.0	23.9	96	77 - 121	
1,3-Dichlorobenzene	25.0	22.5	90	77 - 120	
1,4-Dichlorobenzene	25.0	22.0	88	75 - 120	
2-Butanone (MEK)	125	116	93	57 - 140	
2-Hexanone	125	111	89	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	109	88	71 - 125	
Acetone	125	127	101	56 - 142	
Benzene	25.0	22.3	89	71 - 124	
Bromodichloromethane	25.0	25.6	102	80 - 122	
Bromoform	25.0	24.7	99	52 - 132	
Bromomethane	25.0	28.2	113	55 - 144	
Carbon disulfide	25.0	23.0	92	59 - 134	
Carbon tetrachloride	25.0	25.3	101	72 - 134	
Chlorobenzene	25.0	22.2	89	72 - 120	
Chloroethane	25.0	22.1	88	69 - 136	
Chloroform	25.0	23.9	96	73 - 127	
Chloromethane	25.0	20.8	83	68 - 124	
cis-1,2-Dichloroethene	25.0	23.6	94	74 - 124	
cis-1,3-Dichloropropene	25.0	25.4	102	74 - 124	
Cyclohexane	25.0	21.4	86	59 - 135	
Dibromochloromethane	25.0	25.3	101	75 - 125	
Dichlorodifluoromethane	25.0	21.4	85	59 - 135	
Ethylbenzene	25.0	22.5	90	77 - 123	
Isopropylbenzene	25.0	23.5	94	77 - 122	
Methyl acetate	125	102	81	74 - 133	
Methyl tert-butyl ether	25.0	24.2	97	64 - 127	
Methylcyclohexane	25.0	22.1	88	61 - 138	
Methylene Chloride	25.0	24.4	97	57 - 132	
Styrene	25.0	24.6	98	70 - 130	
Tetrachloroethene	25.0	21.8	87	74 - 122	
Toluene	25.0	23.7	95	80 - 122	
trans-1,2-Dichloroethene	25.0	23.4	94	73 - 127	
trans-1,3-Dichloropropene	25.0	24.6	98	72 - 123	

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Lab Control Sample - Batch: 480-309812

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-309812/4	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7808.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/05/2016 2245	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/05/2016 2245				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Trichloroethene	25.0	23.5	94	74 - 123	
Trichlorofluoromethane	25.0	24.5	98	62 - 152	
Vinyl chloride	25.0	21.5	86	65 - 133	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	66 - 137
4-Bromofluorobenzene (Surr)	98	73 - 120
Dibromofluoromethane (Surr)	100	60 - 140
Toluene-d8 (Surr)	93	71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-309812

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-102539-8	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7829.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0831			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0831				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-102539-8	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7830.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0859			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0859				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	110	107	73 - 126	2	15		
1,1,2,2-Tetrachloroethane	84	85	70 - 126	2	15		
1,1,2-Trichloro-1,2,2-trifluoroethane	104	102	52 - 148	2	20		
1,1,2-Trichloroethane	91	90	76 - 122	2	15		
1,1-Dichloroethane	99	98	71 - 129	1	20		
1,1-Dichloroethene	106	103	58 - 121	3	16		
1,2,4-Trichlorobenzene	94	93	70 - 122	1	20		
1,2,4-Trimethylbenzene	99	99	76 - 121	1	20		
1,2-Dibromo-3-Chloropropane	80	84	56 - 134	6	15		
1,2-Dibromoethane	92	93	77 - 120	2	15		
1,2-Dichlorobenzene	91	91	80 - 124	1	20		
1,2-Dichloroethane	100	99	75 - 127	1	20		
1,2-Dichloropropane	95	96	76 - 120	0	20		
1,3,5-Trimethylbenzene	100	99	77 - 121	1	20		
1,3-Dichlorobenzene	90	91	77 - 120	1	20		
1,4-Dichlorobenzene	90	90	75 - 120	0	20		
2-Butanone (MEK)	81	93	57 - 140	14	20		
2-Hexanone	83	89	65 - 127	7	15		
4-Methyl-2-pentanone (MIBK)	84	88	71 - 125	4	35		
Acetone	91	107	56 - 142	15	15		
Benzene	91	90	71 - 124	1	13		
Bromodichloromethane	105	103	80 - 122	3	15		
Bromoform	84	82	52 - 132	3	15		
Bromomethane	109	108	55 - 144	1	15		
Carbon disulfide	100	98	59 - 134	3	15		
Carbon tetrachloride	118	115	72 - 134	2	15		
Chlorobenzene	94	92	72 - 120	1	25		
Chloroethane	109	104	69 - 136	5	15		
Chloroform	102	101	73 - 127	1	20		
Chloromethane	95	98	68 - 124	3	15		
cis-1,2-Dichloroethene	97	96	74 - 124	1	15		
cis-1,3-Dichloropropene	89	92	74 - 124	3	15		
Cyclohexane	99	98	59 - 135	1	20		

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-309812

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-102539-8	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7829.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0831			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0831				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-102539-8	Analysis Batch:	480-309812	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7830.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 0859			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 0859				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dibromochloromethane	97	98	75 - 125	1	15		
Dichlorodifluoromethane	102	102	59 - 135	0	20		
Ethylbenzene	98	97	77 - 123	2	15		
Isopropylbenzene	99	98	77 - 122	1	20		
Methyl acetate	71	74	74 - 133	5	20	*	
Methyl tert-butyl ether	95	95	64 - 127	0	37		
Methylcyclohexane	96	94	61 - 138	2	20		
Methylene Chloride	106	102	57 - 132	4	15		
Styrene	102	100	70 - 130	2	20		
Tetrachloroethene	97	95	74 - 122	2	20		
Toluene	105	103	80 - 122	2	15		
trans-1,2-Dichloroethene	100	97	73 - 127	2	20		
trans-1,3-Dichloropropene	91	90	72 - 123	1	15		
Trichloroethene	99	97	74 - 123	2	16		
Trichlorofluoromethane	120	120	62 - 152	0	20		
Vinyl chloride	95	101	65 - 133	6	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	102	66 - 137
4-Bromofluorobenzene (Surr)	97	100	73 - 120
Dibromofluoromethane (Surr)	104	102	60 - 140
Toluene-d8 (Surr)	97	97	71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-309812

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-102539-8	Units: ug/L		MSD Lab Sample ID:	480-102539-8
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	07/06/2016 0831			Analysis Date:	07/06/2016 0859
Prep Date:	07/06/2016 0831			Prep Date:	07/06/2016 0859
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
1,1,1-Trichloroethane	1.0	U	25.0	25.0	27.5		26.8
1,1,2,2-Tetrachloroethane	1.0	U	25.0	25.0	20.9		21.4
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	25.0	25.0	26.1		25.4
1,1,2-Trichloroethane	1.0	U	25.0	25.0	22.8		22.5
1,1-Dichloroethane	1.0	U	25.0	25.0	24.9		24.5
1,1-Dichloroethene	1.0	U	25.0	25.0	26.6		25.7
1,2,4-Trichlorobenzene	1.0	U	25.0	25.0	23.4		23.2
1,2,4-Trimethylbenzene	1.0	U	25.0	25.0	24.8		24.7
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	25.0	19.9		21.1
1,2-Dibromoethane	1.0	U	25.0	25.0	22.9		23.3
1,2-Dichlorobenzene	1.0	U	25.0	25.0	22.8		22.7
1,2-Dichloroethane	1.0	U	25.0	25.0	25.1		24.8
1,2-Dichloropropane	1.0	U	25.0	25.0	23.8		23.9
1,3,5-Trimethylbenzene	1.0	U	25.0	25.0	24.9		24.6
1,3-Dichlorobenzene	1.0	U	25.0	25.0	22.6		22.8
1,4-Dichlorobenzene	1.0	U	25.0	25.0	22.4		22.4
2-Butanone (MEK)	10	U	125	125	101		116
2-Hexanone	5.0	U	125	125	104		111
4-Methyl-2-pentanone (MIBK)	5.0	U	125	125	105		110
Acetone	4.1	J	125	125	118		137
Benzene	14		25.0	25.0	37.2		36.9
Bromodichloromethane	1.0	U	25.0	25.0	26.4		25.7
Bromoform	1.0	U	25.0	25.0	21.1		20.5
Bromomethane	1.0	U	25.0	25.0	27.2		27.0
Carbon disulfide	1.0	U	25.0	25.0	25.1		24.4
Carbon tetrachloride	1.0	U	25.0	25.0	29.5		28.8
Chlorobenzene	1.0	U	25.0	25.0	23.5		23.1
Chloroethane	1.0	U	25.0	25.0	27.3		26.1
Chloroform	1.0	U	25.0	25.0	25.5		25.2
Chloromethane	1.0	U	25.0	25.0	23.8		24.5
cis-1,2-Dichloroethene	1.0	U	25.0	25.0	24.1		24.0
cis-1,3-Dichloropropene	1.0	U	25.0	25.0	22.3		23.0
Cyclohexane	1.0	U	25.0	25.0	24.7		24.4
Dibromochloromethane	1.0	U	25.0	25.0	24.3		24.5
Dichlorodifluoromethane	1.0	U	25.0	25.0	25.6		25.6
Ethylbenzene	1.0	U	25.0	25.0	24.5		24.2
Isopropylbenzene	1.0	U	25.0	25.0	24.8		24.5
Methyl acetate	2.5	U	125	125	88.2	*	93.1
Methyl tert-butyl ether	1.0	U	25.0	25.0	23.8		23.9
Methylcyclohexane	1.0	U	25.0	25.0	24.1		23.6
Methylene Chloride	1.0	U	25.0	25.0	26.4		25.4
Styrene	1.0	U	25.0	25.0	25.5		25.1
Tetrachloroethene	1.0	U	25.0	25.0	24.3		23.9

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-309812

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-102539-8	Units: ug/L		MSD Lab Sample ID:	480-102539-8
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	07/06/2016 0831			Analysis Date:	07/06/2016 0859
Prep Date:	07/06/2016 0831			Prep Date:	07/06/2016 0859
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toluene	1.0	U	25.0	25.0	26.4	25.8
trans-1,2-Dichloroethene	1.0	U	25.0	25.0	24.9	24.3
trans-1,3-Dichloropropene	1.0	U	25.0	25.0	22.8	22.5
Trichloroethene	1.0	U	25.0	25.0	24.7	24.2
Trichlorofluoromethane	1.0	U	25.0	25.0	30.0	30.0
Vinyl chloride	1.0	U	25.0	25.0	23.8	25.3

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Method Blank - Batch: 480-309873

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-309873/6	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7839.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1229	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1229				
Leach Date:	N/A				

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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Method Blank - Batch: 480-309873

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-309873/6	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7839.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1229	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1229				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
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)	101	66 - 137
4-Bromofluorobenzene (Surr)	96	73 - 120
Dibromofluoromethane (Surr)	98	60 - 140
Toluene-d8 (Surr)	96	71 - 126

Lab Control Sample - Batch: 480-309873

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-309873/4	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7837.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1135	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1135				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	25.0	26.5	106	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	22.6	90	70 - 126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.5	106	52 - 148	
1,1,2-Trichloroethane	25.0	23.0	92	76 - 122	
1,1-Dichloroethane	25.0	24.4	97	71 - 129	
1,1-Dichloroethene	25.0	25.6	103	58 - 121	
1,2,4-Trichlorobenzene	25.0	24.1	96	70 - 122	
1,2,4-Trimethylbenzene	25.0	24.9	100	76 - 121	
1,2-Dibromo-3-Chloropropane	25.0	23.7	95	56 - 134	
1,2-Dibromoethane	25.0	24.3	97	77 - 120	
1,2-Dichlorobenzene	25.0	23.2	93	80 - 124	
1,2-Dichloroethane	25.0	25.2	101	75 - 127	
1,2-Dichloropropane	25.0	24.4	98	76 - 120	
1,3,5-Trimethylbenzene	25.0	24.5	98	77 - 121	
1,3-Dichlorobenzene	25.0	23.2	93	77 - 120	
1,4-Dichlorobenzene	25.0	22.9	92	75 - 120	
2-Butanone (MEK)	125	132	106	57 - 140	
2-Hexanone	125	122	98	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	118	94	71 - 125	
Acetone	125	150	120	56 - 142	
Benzene	25.0	23.4	94	71 - 124	
Bromodichloromethane	25.0	26.5	106	80 - 122	
Bromoform	25.0	24.4	98	52 - 132	
Bromomethane	25.0	27.2	109	55 - 144	
Carbon disulfide	25.0	25.2	101	59 - 134	
Carbon tetrachloride	25.0	28.8	115	72 - 134	
Chlorobenzene	25.0	22.8	91	72 - 120	
Chloroethane	25.0	22.4	90	69 - 136	
Chloroform	25.0	25.2	101	73 - 127	
Chloromethane	25.0	21.2	85	68 - 124	
cis-1,2-Dichloroethene	25.0	24.4	97	74 - 124	
cis-1,3-Dichloropropene	25.0	26.0	104	74 - 124	
Cyclohexane	25.0	25.1	100	59 - 135	
Dibromochloromethane	25.0	25.5	102	75 - 125	
Dichlorodifluoromethane	25.0	21.3	85	59 - 135	
Ethylbenzene	25.0	24.0	96	77 - 123	
Isopropylbenzene	25.0	24.4	98	77 - 122	
Methyl acetate	125	113	90	74 - 133	
Methyl tert-butyl ether	25.0	24.9	99	64 - 127	
Methylcyclohexane	25.0	25.4	102	61 - 138	
Methylene Chloride	25.0	26.4	106	57 - 132	
Styrene	25.0	25.5	102	70 - 130	
Tetrachloroethene	25.0	24.1	96	74 - 122	
Toluene	25.0	25.2	101	80 - 122	
trans-1,2-Dichloroethene	25.0	24.6	98	73 - 127	
trans-1,3-Dichloropropene	25.0	24.7	99	72 - 123	

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Lab Control Sample - Batch: 480-309873

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 480-309873/4	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7837.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 1135	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 1135				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Trichloroethene	25.0	25.0	100	74 - 123	
Trichlorofluoromethane	25.0	26.7	107	62 - 152	
Vinyl chloride	25.0	22.0	88	65 - 133	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	66 - 137
4-Bromofluorobenzene (Surr)	101	73 - 120
Dibromofluoromethane (Surr)	103	60 - 140
Toluene-d8 (Surr)	95	71 - 126

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-309873

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-102539-17	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7855.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 2110			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 2110				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-102539-17	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7856.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 2138			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 2138				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	112	104	73 - 126	7	15		
1,1,2,2-Tetrachloroethane	85	88	70 - 126	3	15		
1,1,2-Trichloro-1,2,2-trifluoroethane	102	93	52 - 148	8	20		
1,1,2-Trichloroethane	92	92	76 - 122	1	15		
1,1-Dichloroethane	102	102	71 - 129	0	20		
1,1-Dichloroethene	107	101	58 - 121	6	16		
1,2,4-Trichlorobenzene	91	89	70 - 122	3	20		
1,2,4-Trimethylbenzene	98	92	76 - 121	6	20		
1,2-Dibromo-3-Chloropropane	85	91	56 - 134	6	15		
1,2-Dibromoethane	96	95	77 - 120	1	15		
1,2-Dichlorobenzene	91	88	80 - 124	3	20		
1,2-Dichloroethane	104	102	75 - 127	1	20		
1,2-Dichloropropane	98	96	76 - 120	2	20		
1,3,5-Trimethylbenzene	98	90	77 - 121	8	20		
1,3-Dichlorobenzene	90	87	77 - 120	4	20		
1,4-Dichlorobenzene	90	85	75 - 120	5	20		
2-Butanone (MEK)	91	96	57 - 140	5	20		
2-Hexanone	91	95	65 - 127	4	15		
4-Methyl-2-pentanone (MIBK)	91	94	71 - 125	3	35		
Acetone	99	109	56 - 142	9	15		
Benzene	98	93	71 - 124	5	13		
Bromodichloromethane	111	109	80 - 122	1	15		
Bromoform	86	86	52 - 132	0	15		
Bromomethane	110	136	55 - 144	21	15		*
Carbon disulfide	105	94	59 - 134	11	15		
Carbon tetrachloride	122	113	72 - 134	8	15		
Chlorobenzene	94	90	72 - 120	4	25		
Chloroethane	114	112	69 - 136	1	15		
Chloroform	107	104	73 - 127	2	20		
Chloromethane	82	88	68 - 124	8	15		
cis-1,2-Dichloroethene	101	98	74 - 124	3	15		
cis-1,3-Dichloropropene	89	90	74 - 124	1	15		
Cyclohexane	96	85	59 - 135	12	20		

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-309873

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-102539-17	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7855.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 2110			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 2110				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	480-102539-17	Analysis Batch:	480-309873	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7856.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 2138			Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 2138				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Dibromochloromethane	101	100	75 - 125	1	15		
Dichlorodifluoromethane	89	89	59 - 135	1	20		
Ethylbenzene	99	91	77 - 123	8	15		
Isopropylbenzene	96	89	77 - 122	8	20		
Methyl acetate	76	79	74 - 133	4	20		
Methyl tert-butyl ether	95	97	64 - 127	3	37		
Methylcyclohexane	91	84	61 - 138	8	20		
Methylene Chloride	106	104	57 - 132	2	15		
Styrene	103	99	70 - 130	4	20		
Tetrachloroethene	97	88	74 - 122	9	20		
Toluene	102	98	80 - 122	5	15		
trans-1,2-Dichloroethene	105	97	73 - 127	7	20		
trans-1,3-Dichloropropene	90	91	72 - 123	1	15		
Trichloroethene	101	95	74 - 123	6	16		
Trichlorofluoromethane	117	111	62 - 152	5	20		
Vinyl chloride	87	94	65 - 133	8	15		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108	105	66 - 137
4-Bromofluorobenzene (Surr)	99	100	73 - 120
Dibromofluoromethane (Surr)	105	103	60 - 140
Toluene-d8 (Surr)	96	97	71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-309873

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-102539-17	Units:	ug/L	MSD Lab Sample ID:	480-102539-17
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	07/06/2016 2110			Analysis Date:	07/06/2016 2138
Prep Date:	07/06/2016 2110			Prep Date:	07/06/2016 2138
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
1,1,1-Trichloroethane	1.3		25.0	25.0	29.3	27.4	
1,1,2,2-Tetrachloroethane	1.0	U	25.0	25.0	21.3	21.9	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.40	J	25.0	25.0	25.8	23.7	
1,1,2-Trichloroethane	1.0	U	25.0	25.0	23.1	23.0	
1,1-Dichloroethane	1.0	U	25.0	25.0	25.5	25.4	
1,1-Dichloroethene	1.0	U	25.0	25.0	26.7	25.3	
1,2,4-Trichlorobenzene	1.0	U	25.0	25.0	22.7	22.1	
1,2,4-Trimethylbenzene	1.0	U	25.0	25.0	24.5	23.1	
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	25.0	21.3	22.7	
1,2-Dibromoethane	1.0	U	25.0	25.0	23.9	23.6	
1,2-Dichlorobenzene	1.0	U	25.0	25.0	22.6	22.0	
1,2-Dichloroethane	1.0	U	25.0	25.0	26.0	25.6	
1,2-Dichloropropane	1.0	U	25.0	25.0	24.4	23.9	
1,3,5-Trimethylbenzene	1.0	U	25.0	25.0	24.4	22.5	
1,3-Dichlorobenzene	1.0	U	25.0	25.0	22.5	21.7	
1,4-Dichlorobenzene	1.0	U	25.0	25.0	22.6	21.4	
2-Butanone (MEK)	10	U	125	125	114	120	
2-Hexanone	5.0	U	125	125	114	119	
4-Methyl-2-pentanone (MIBK)	5.0	U	125	125	114	117	
Acetone	10	U	125	125	124	136	
Benzene	0.95	J	25.0	25.0	25.5	24.3	
Bromodichloromethane	1.0	U	25.0	25.0	27.6	27.3	
Bromoform	1.0	U	25.0	25.0	21.5	21.6	
Bromomethane	1.0	U	25.0	25.0	27.6	34.1	*
Carbon disulfide	1.0	U	25.0	25.0	26.2	23.4	
Carbon tetrachloride	1.0	U	25.0	25.0	30.6	28.2	
Chlorobenzene	1.0	U	25.0	25.0	23.4	22.4	
Chloroethane	1.0	U	25.0	25.0	28.4	28.1	
Chloroform	1.0	U	25.0	25.0	26.7	26.1	
Chloromethane	1.0	U	25.0	25.0	20.5	22.1	
cis-1,2-Dichloroethene	1.0	U	25.0	25.0	25.3	24.6	
cis-1,3-Dichloropropene	1.0	U	25.0	25.0	22.4	22.6	
Cyclohexane	1.0	U	25.0	25.0	24.0	21.3	
Dibromochloromethane	1.0	U	25.0	25.0	25.3	25.1	
Dichlorodifluoromethane	1.0	U	25.0	25.0	22.3	22.1	
Ethylbenzene	1.0	U	25.0	25.0	24.7	22.8	
Isopropylbenzene	1.0	U	25.0	25.0	24.0	22.2	
Methyl acetate	2.5	U	125	125	94.8	99.0	
Methyl tert-butyl ether	1.0	U	25.0	25.0	23.7	24.3	
Methylcyclohexane	1.0	U	25.0	25.0	22.8	21.1	
Methylene Chloride	1.0	U	25.0	25.0	26.4	25.9	
Styrene	1.0	U	25.0	25.0	25.8	24.7	
Tetrachloroethene	1.0	U	25.0	25.0	24.1	22.1	

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-309873

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	480-102539-17	Units: ug/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	07/06/2016 2110		
Prep Date:	07/06/2016 2110		
Leach Date:	N/A		

MSD Lab Sample ID:	480-102539-17
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	07/06/2016 2138
Prep Date:	07/06/2016 2138
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Toluene	1.0	U	25.0	25.0	25.6	24.4
trans-1,2-Dichloroethene	1.0	U	25.0	25.0	26.2	24.4
trans-1,3-Dichloropropene	1.0	U	25.0	25.0	22.4	22.6
Trichloroethene	0.84	J	25.0	25.0	26.2	24.6
Trichlorofluoromethane	1.0	U	25.0	25.0	29.2	27.9
Vinyl chloride	1.0	U	25.0	25.0	21.8	23.5

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Method Blank - Batch: 480-309962

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-309962/6	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7862.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/07/2016 0025	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/07/2016 0025				
Leach Date:	N/A				

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
Dichlorodifluoromethane	1.0	U	0.68	1.0
Ethylbenzene	1.0	U	0.74	1.0
Isopropylbenzene	1.0	U	0.79	1.0
Methyl acetate	2.5	U	1.3	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
Styrene	1.0	U	0.73	1.0
Tetrachloroethene	1.0	U	0.36	1.0
Toluene	1.0	U	0.51	1.0

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Method Blank - Batch: 480-309962

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 480-309962/6	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7862.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/07/2016 0025	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/07/2016 0025				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
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)	104	66 - 137
4-Bromofluorobenzene (Surr)	99	73 - 120
Dibromofluoromethane (Surr)	105	60 - 140
Toluene-d8 (Surr)	100	71 - 126

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-309962

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-309962/4	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7860.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 2330	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 2330				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-309962/10	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7871.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/07/2016 0449	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/07/2016 0449				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	97	99	73 - 126	2	15		
1,1,2,2-Tetrachloroethane	90	82	70 - 126	9	15		
1,1,2-Trichloro-1,2,2-trifluoroethane	93	94	52 - 148	1	20		
1,1,2-Trichloroethane	90	90	76 - 122	1	15		
1,1-Dichloroethane	92	94	71 - 129	2	20		
1,1-Dichloroethene	92	94	58 - 121	2	16		
1,2,4-Trichlorobenzene	96	92	70 - 122	4	20		
1,2,4-Trimethylbenzene	98	98	76 - 121	0	20		
1,2-Dibromo-3-Chloropropane	94	75	56 - 134	22	15		*
1,2-Dibromoethane	96	91	77 - 120	6	15		
1,2-Dichlorobenzene	93	92	80 - 124	1	20		
1,2-Dichloroethane	98	95	75 - 127	3	20		
1,2-Dichloropropane	94	92	76 - 120	2	20		
1,3,5-Trimethylbenzene	96	97	77 - 121	1	20		
1,3-Dichlorobenzene	92	91	77 - 120	0	20		
1,4-Dichlorobenzene	91	90	75 - 120	1	20		
2-Butanone (MEK)	99	73	57 - 140	30	20		*
2-Hexanone	94	79	65 - 127	17	15		*
4-Methyl-2-pentanone (MIBK)	93	81	71 - 125	14	35		
Acetone	110	81	56 - 142	31	15		*
Benzene	89	89	71 - 124	0	13		
Bromodichloromethane	104	101	80 - 122	3	15		
Bromoform	95	82	52 - 132	15	15		
Bromomethane	113	113	55 - 144	0	15		
Carbon disulfide	86	89	59 - 134	4	15		
Carbon tetrachloride	104	106	72 - 134	2	15		
Chlorobenzene	91	93	72 - 120	2	25		
Chloroethane	89	96	69 - 136	7	15		
Chloroform	96	98	73 - 127	2	20		
Chloromethane	78	80	68 - 124	2	15		
cis-1,2-Dichloroethene	92	93	74 - 124	2	15		
cis-1,3-Dichloropropene	99	88	74 - 124	11	15		
Cyclohexane	88	89	59 - 135	1	20		
Dibromochloromethane	102	99	75 - 125	3	15		
Dichlorodifluoromethane	84	82	59 - 135	2	20		
Ethylbenzene	94	95	77 - 123	1	15		

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-309962

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-309962/4	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7860.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/06/2016 2330	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/06/2016 2330				5 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 480-309962/10	Analysis Batch:	480-309962	Instrument ID:	HP5973P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P7871.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/07/2016 0449	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	07/07/2016 0449				5 mL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Isopropylbenzene	95	94	77 - 122	1	20		
Methyl acetate	83	70	74 - 133	18	20		*
Methyl tert-butyl ether	95	93	64 - 127	3	37		
Methylcyclohexane	88	86	61 - 138	2	20		
Methylene Chloride	99	99	57 - 132	1	15		
Styrene	102	101	70 - 130	0	20		
Tetrachloroethene	91	91	74 - 122	0	20		
Toluene	99	98	80 - 122	1	15		
trans-1,2-Dichloroethene	93	91	73 - 127	2	20		
trans-1,3-Dichloropropene	98	93	72 - 123	6	15		
Trichloroethene	95	90	74 - 123	5	16		
Trichlorofluoromethane	99	100	62 - 152	0	20		
Vinyl chloride	85	81	65 - 133	5	15		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	103	66 - 137
4-Bromofluorobenzene (Surr)	103	102	73 - 120
Dibromofluoromethane (Surr)	104	104	60 - 140
Toluene-d8 (Surr)	98	99	71 - 126

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-309962

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-309962/4	Units: ug/L	LCSD Lab Sample ID:	LCSD 480-309962/10	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	07/06/2016 2330		Analysis Date:	07/07/2016 0449	
Prep Date:	07/06/2016 2330		Prep Date:	07/07/2016 0449	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
1,1,1-Trichloroethane	25.0	25.0	24.2	24.9	
1,1,2,2-Tetrachloroethane	25.0	25.0	22.5	20.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0	23.2	23.6	
1,1,2-Trichloroethane	25.0	25.0	22.6	22.5	
1,1-Dichloroethane	25.0	25.0	23.1	23.4	
1,1-Dichloroethene	25.0	25.0	22.9	23.4	
1,2,4-Trichlorobenzene	25.0	25.0	23.9	23.0	
1,2,4-Trimethylbenzene	25.0	25.0	24.6	24.6	
1,2-Dibromo-3-Chloropropane	25.0	25.0	23.4	18.8	*
1,2-Dibromoethane	25.0	25.0	24.1	22.8	
1,2-Dichlorobenzene	25.0	25.0	23.3	22.9	
1,2-Dichloroethane	25.0	25.0	24.5	23.8	
1,2-Dichloropropane	25.0	25.0	23.5	23.1	
1,3,5-Trimethylbenzene	25.0	25.0	24.1	24.2	
1,3-Dichlorobenzene	25.0	25.0	22.9	22.8	
1,4-Dichlorobenzene	25.0	25.0	22.6	22.4	
2-Butanone (MEK)	125	125	124	91.9	*
2-Hexanone	125	125	117	98.9	*
4-Methyl-2-pentanone (MIBK)	125	125	116	101	
Acetone	125	125	138	101	*
Benzene	25.0	25.0	22.3	22.3	
Bromodichloromethane	25.0	25.0	26.0	25.2	
Bromoform	25.0	25.0	23.7	20.4	
Bromomethane	25.0	25.0	28.2	28.2	
Carbon disulfide	25.0	25.0	21.5	22.3	
Carbon tetrachloride	25.0	25.0	25.9	26.4	
Chlorobenzene	25.0	25.0	22.7	23.1	
Chloroethane	25.0	25.0	22.2	24.0	
Chloroform	25.0	25.0	24.0	24.4	
Chloromethane	25.0	25.0	19.5	19.9	
cis-1,2-Dichloroethene	25.0	25.0	22.9	23.3	
cis-1,3-Dichloropropene	25.0	25.0	24.7	22.0	
Cyclohexane	25.0	25.0	21.9	22.2	
Dibromochloromethane	25.0	25.0	25.5	24.8	
Dichlorodifluoromethane	25.0	25.0	21.0	20.6	
Ethylbenzene	25.0	25.0	23.5	23.8	
Isopropylbenzene	25.0	25.0	23.8	23.5	
Methyl acetate	125	125	104	87.2	*
Methyl tert-butyl ether	25.0	25.0	23.8	23.1	

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-309962

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID:	LCS 480-309962/4	Units: ug/L	LCSD Lab Sample ID:	LCSD 480-309962/10
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	07/06/2016 2330		Analysis Date:	07/07/2016 0449
Prep Date:	07/06/2016 2330		Prep Date:	07/07/2016 0449
Leach Date:	N/A		Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methylcyclohexane	25.0	25.0	21.9	21.6
Methylene Chloride	25.0	25.0	24.6	24.8
Styrene	25.0	25.0	25.4	25.4
Tetrachloroethene	25.0	25.0	22.7	22.8
Toluene	25.0	25.0	24.6	24.5
trans-1,2-Dichloroethene	25.0	25.0	23.3	22.8
trans-1,3-Dichloropropene	25.0	25.0	24.5	23.1
Trichloroethene	25.0	25.0	23.8	22.5
Trichlorofluoromethane	25.0	25.0	24.9	24.9
Vinyl chloride	25.0	25.0	21.3	20.2

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-309812					
LCS 480-309812/4	Lab Control Sample	T	Water	8260C	
MB 480-309812/6	Method Blank	T	Water	8260C	
480-102539-1	WELL 1-1	T	Water	8260C	
480-102539-2	4009-9	T	Water	8260C	
480-102539-3	4009-10	T	Water	8260C	
480-102539-4	4009-11	T	Water	8260C	
480-102539-5	4009-12	T	Water	8260C	
480-102539-6	4009-13	T	Water	8260C	
480-102539-7	4009-13A	T	Water	8260C	
480-102539-8	4009-14	T	Water	8260C	
480-102539-8MS	Matrix Spike	T	Water	8260C	
480-102539-8MSD	Matrix Spike Duplicate	T	Water	8260C	
480-102539-9	4009-15	T	Water	8260C	
480-102539-10	4009-16	T	Water	8260C	
480-102539-11	4009-16A	T	Water	8260C	
480-102539-12	4009-18	T	Water	8260C	
480-102539-13	4009-19	T	Water	8260C	
480-102539-14	4009-21	T	Water	8260C	
480-102539-15	4009-22	T	Water	8260C	
Analysis Batch:480-309873					
LCS 480-309873/4	Lab Control Sample	T	Water	8260C	
MB 480-309873/6	Method Blank	T	Water	8260C	
480-102539-16	4009-27S	T	Water	8260C	
480-102539-17	4009-27I	T	Water	8260C	
480-102539-17MS	Matrix Spike	T	Water	8260C	
480-102539-17MSD	Matrix Spike Duplicate	T	Water	8260C	
480-102539-18	4009-27D	T	Water	8260C	
480-102539-19	4009-28	T	Water	8260C	
480-102539-20	4009-29S	T	Water	8260C	
480-102539-21	4009-29I	T	Water	8260C	
480-102539-22	4009-29D	T	Water	8260C	
480-102539-23	4009-30	T	Water	8260C	
480-102539-24	4009-30A	T	Water	8260C	
480-102539-25	4009-11A	T	Water	8260C	
480-102539-27	DUP-2_20160630	T	Water	8260C	
Analysis Batch:480-309962					
LCS 480-309962/4	Lab Control Sample	T	Water	8260C	
LCSD 480-309962/10	Lab Control Sample Duplicate	T	Water	8260C	
MB 480-309962/6	Method Blank	T	Water	8260C	
480-102539-26	DUP-1_20160630	T	Water	8260C	
480-102539-28	FIELD BLANK	T	Water	8260C	
480-102539-29	TRIP BLANK	T	Water	8260C	

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Laboratory Chronicle

Lab ID: 480-102539-1 **Client ID: WELL 1-1**

Sample Date/Time: 06/30/2016 09:30 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-1		480-309812		07/06/2016 01:43	5	TAL BUF	CDC
A:8260C	480-102539-A-1		480-309812		07/06/2016 01:43	5	TAL BUF	CDC

Lab ID: 480-102539-2 **Client ID: 4009-9**

Sample Date/Time: 06/30/2016 13:35 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-2		480-309812		07/06/2016 02:10	1	TAL BUF	CDC
A:8260C	480-102539-A-2		480-309812		07/06/2016 02:10	1	TAL BUF	CDC

Lab ID: 480-102539-3 **Client ID: 4009-10**

Sample Date/Time: 06/30/2016 13:40 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-3		480-309812		07/06/2016 02:37	1	TAL BUF	CDC
A:8260C	480-102539-A-3		480-309812		07/06/2016 02:37	1	TAL BUF	CDC

Lab ID: 480-102539-4 **Client ID: 4009-11**

Sample Date/Time: 06/30/2016 13:57 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-4		480-309812		07/06/2016 03:04	1	TAL BUF	CDC
A:8260C	480-102539-A-4		480-309812		07/06/2016 03:04	1	TAL BUF	CDC

Lab ID: 480-102539-5 **Client ID: 4009-12**

Sample Date/Time: 06/30/2016 12:10 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-5		480-309812		07/06/2016 03:31	1	TAL BUF	CDC
A:8260C	480-102539-A-5		480-309812		07/06/2016 03:31	1	TAL BUF	CDC

Lab ID: 480-102539-6 **Client ID: 4009-13**

Sample Date/Time: 06/30/2016 13:05 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-6		480-309812		07/06/2016 03:59	1	TAL BUF	CDC
A:8260C	480-102539-A-6		480-309812		07/06/2016 03:59	1	TAL BUF	CDC

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

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Lab ID: 480-102539-7 **Client ID: 4009-13A**

Sample Date/Time: 06/30/2016 13:10 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-7		480-309812		07/06/2016 04:26	1	TAL BUF	CDC
A:8260C	480-102539-A-7		480-309812		07/06/2016 04:26	1	TAL BUF	CDC

Lab ID: 480-102539-8 **Client ID: 4009-14**

Sample Date/Time: 06/30/2016 10:15 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-8		480-309812		07/06/2016 04:53	1	TAL BUF	CDC
A:8260C	480-102539-A-8		480-309812		07/06/2016 04:53	1	TAL BUF	CDC

Lab ID: 480-102539-8 **Client ID: 4009-14**

Sample Date/Time: 06/30/2016 10:15 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-8 MS		480-309812		07/06/2016 08:31	1	TAL BUF	CDC
A:8260C	480-102539-A-8 MS		480-309812		07/06/2016 08:31	1	TAL BUF	CDC

Lab ID: 480-102539-8 **Client ID: 4009-14**

Sample Date/Time: 06/30/2016 10:15 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-8 MSD		480-309812		07/06/2016 08:59	1	TAL BUF	CDC
A:8260C	480-102539-A-8 MSD		480-309812		07/06/2016 08:59	1	TAL BUF	CDC

Lab ID: 480-102539-9 **Client ID: 4009-15**

Sample Date/Time: 06/30/2016 11:40 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-9		480-309812		07/06/2016 05:20	1	TAL BUF	CDC
A:8260C	480-102539-A-9		480-309812		07/06/2016 05:20	1	TAL BUF	CDC

Lab ID: 480-102539-10 **Client ID: 4009-16**

Sample Date/Time: 06/30/2016 11:20 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-10		480-309812		07/06/2016 05:48	1	TAL BUF	CDC
A:8260C	480-102539-A-10		480-309812		07/06/2016 05:48	1	TAL BUF	CDC

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

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Lab ID: 480-102539-11 **Client ID: 4009-16A**

Sample Date/Time: 06/30/2016 11:25 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-11		480-309812		07/06/2016 06:15	1	TAL BUF	CDC
A:8260C	480-102539-A-11		480-309812		07/06/2016 06:15	1	TAL BUF	CDC

Lab ID: 480-102539-12 **Client ID: 4009-18**

Sample Date/Time: 06/30/2016 10:40 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-12		480-309812		07/06/2016 06:42	1	TAL BUF	CDC
A:8260C	480-102539-A-12		480-309812		07/06/2016 06:42	1	TAL BUF	CDC

Lab ID: 480-102539-13 **Client ID: 4009-19**

Sample Date/Time: 06/30/2016 11:00 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-13		480-309812		07/06/2016 07:09	1	TAL BUF	CDC
A:8260C	480-102539-A-13		480-309812		07/06/2016 07:09	1	TAL BUF	CDC

Lab ID: 480-102539-14 **Client ID: 4009-21**

Sample Date/Time: 06/30/2016 10:50 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-14		480-309812		07/06/2016 07:37	1	TAL BUF	CDC
A:8260C	480-102539-A-14		480-309812		07/06/2016 07:37	1	TAL BUF	CDC

Lab ID: 480-102539-15 **Client ID: 4009-22**

Sample Date/Time: 06/30/2016 10:10 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-15		480-309812		07/06/2016 08:04	1	TAL BUF	CDC
A:8260C	480-102539-A-15		480-309812		07/06/2016 08:04	1	TAL BUF	CDC

Lab ID: 480-102539-16 **Client ID: 4009-27S**

Sample Date/Time: 06/30/2016 13:00 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-16		480-309873		07/06/2016 14:03	1	TAL BUF	SMY
A:8260C	480-102539-A-16		480-309873		07/06/2016 14:03	1	TAL BUF	SMY

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

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Lab ID: 480-102539-17 **Client ID: 4009-27I**

Sample Date/Time: 06/30/2016 12:55 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-17		480-309873		07/06/2016 14:30	1	TAL BUF	SMY
A:8260C	480-102539-A-17		480-309873		07/06/2016 14:30	1	TAL BUF	SMY

Lab ID: 480-102539-17 **Client ID: 4009-27I**

Sample Date/Time: 06/30/2016 12:55 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-17 MS		480-309873		07/06/2016 21:10	1	TAL BUF	SMY
A:8260C	480-102539-A-17 MS		480-309873		07/06/2016 21:10	1	TAL BUF	SMY

Lab ID: 480-102539-17 **Client ID: 4009-27I**

Sample Date/Time: 06/30/2016 12:55 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-17 MSD		480-309873		07/06/2016 21:38	1	TAL BUF	SMY
A:8260C	480-102539-A-17 MSD		480-309873		07/06/2016 21:38	1	TAL BUF	SMY

Lab ID: 480-102539-18 **Client ID: 4009-27D**

Sample Date/Time: 06/30/2016 12:50 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-18		480-309873		07/06/2016 14:58	1	TAL BUF	SMY
A:8260C	480-102539-A-18		480-309873		07/06/2016 14:58	1	TAL BUF	SMY

Lab ID: 480-102539-19 **Client ID: 4009-28**

Sample Date/Time: 06/30/2016 09:55 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-19		480-309873		07/06/2016 15:25	1	TAL BUF	SMY
A:8260C	480-102539-A-19		480-309873		07/06/2016 15:25	1	TAL BUF	SMY

Lab ID: 480-102539-20 **Client ID: 4009-29S**

Sample Date/Time: 06/30/2016 12:30 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-20		480-309873		07/06/2016 15:53	20	TAL BUF	SMY
A:8260C	480-102539-A-20		480-309873		07/06/2016 15:53	20	TAL BUF	SMY

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Laboratory Chronicle

Lab ID: 480-102539-21 **Client ID: 4009-29I**

Sample Date/Time: 06/30/2016 12:35 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-21		480-309873		07/06/2016 16:20	25	TAL BUF	SMY
A:8260C	480-102539-A-21		480-309873		07/06/2016 16:20	25	TAL BUF	SMY

Lab ID: 480-102539-22 **Client ID: 4009-29D**

Sample Date/Time: 06/30/2016 12:40 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-22		480-309873		07/06/2016 16:48	1	TAL BUF	SMY
A:8260C	480-102539-A-22		480-309873		07/06/2016 16:48	1	TAL BUF	SMY

Lab ID: 480-102539-23 **Client ID: 4009-30**

Sample Date/Time: 06/30/2016 11:35 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-23		480-309873		07/06/2016 17:16	1	TAL BUF	SMY
A:8260C	480-102539-A-23		480-309873		07/06/2016 17:16	1	TAL BUF	SMY

Lab ID: 480-102539-24 **Client ID: 4009-30A**

Sample Date/Time: 06/30/2016 11:30 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-24		480-309873		07/06/2016 17:43	1	TAL BUF	SMY
A:8260C	480-102539-A-24		480-309873		07/06/2016 17:43	1	TAL BUF	SMY

Lab ID: 480-102539-25 **Client ID: 4009-11A**

Sample Date/Time: 06/30/2016 13:55 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-25		480-309873		07/06/2016 19:48	1	TAL BUF	SMY
A:8260C	480-102539-A-25		480-309873		07/06/2016 19:48	1	TAL BUF	SMY

Lab ID: 480-102539-26 **Client ID: DUP-1_20160630**

Sample Date/Time: 06/30/2016 00:00 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-B-26		480-309962		07/07/2016 01:11	1	TAL BUF	CDC
A:8260C	480-102539-B-26		480-309962		07/07/2016 01:11	1	TAL BUF	CDC

Client: ARCADIS U.S. Inc Job Number: 480-102539-1

Laboratory Chronicle

Lab ID: 480-102539-27 **Client ID: DUP-2_20160630**

Sample Date/Time: 06/30/2016 00:00 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-27		480-309873		07/06/2016 20:43	25	TAL BUF	SMY
A:8260C	480-102539-A-27		480-309873		07/06/2016 20:43	25	TAL BUF	SMY

Lab ID: 480-102539-28 **Client ID: FIELD BLANK**

Sample Date/Time: 06/30/2016 09:35 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-28		480-309962		07/07/2016 01:38	1	TAL BUF	CDC
A:8260C	480-102539-A-28		480-309962		07/07/2016 01:38	1	TAL BUF	CDC

Lab ID: 480-102539-29 **Client ID: TRIP BLANK**

Sample Date/Time: 06/30/2016 00:00 Received Date/Time: 07/02/2016 01:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-102539-A-29		480-309962		07/07/2016 02:06	1	TAL BUF	CDC
A:8260C	480-102539-A-29		480-309962		07/07/2016 02:06	1	TAL BUF	CDC

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 480-309812/6		480-309812		07/05/2016 23:40	1	TAL BUF	CDC
A:8260C	MB 480-309812/6		480-309812		07/05/2016 23:40	1	TAL BUF	CDC
P:5030C	MB 480-309873/6		480-309873		07/06/2016 12:29	1	TAL BUF	SMY
A:8260C	MB 480-309873/6		480-309873		07/06/2016 12:29	1	TAL BUF	SMY
P:5030C	MB 480-309962/6		480-309962		07/07/2016 00:25	1	TAL BUF	CDC
A:8260C	MB 480-309962/6		480-309962		07/07/2016 00:25	1	TAL BUF	CDC

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 480-309812/4		480-309812		07/05/2016 22:45	1	TAL BUF	CDC
A:8260C	LCS 480-309812/4		480-309812		07/05/2016 22:45	1	TAL BUF	CDC
P:5030C	LCS 480-309873/4		480-309873		07/06/2016 11:35	1	TAL BUF	SMY
A:8260C	LCS 480-309873/4		480-309873		07/06/2016 11:35	1	TAL BUF	SMY
P:5030C	LCS 480-309962/4		480-309962		07/06/2016 23:30	1	TAL BUF	CDC
A:8260C	LCS 480-309962/4		480-309962		07/06/2016 23:30	1	TAL BUF	CDC

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Laboratory Chronicle

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

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

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCSD 480-309962/10		480-309962		07/07/2016 04:49	1	TAL BUF	CDC
A:8260C	LCSD 480-309962/10		480-309962		07/07/2016 04:49	1	TAL BUF	CDC

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.: 480-102539-1

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 1-1	480-102539-1	100	100	94	92
4009-9	480-102539-2	103	101	92	92
4009-10	480-102539-3	103	103	94	92
4009-11	480-102539-4	104	103	94	90
4009-12	480-102539-5	102	100	96	93
4009-13	480-102539-6	101	104	94	91
4009-13A	480-102539-7	105	103	97	94
4009-14	480-102539-8	104	102	94	90
4009-15	480-102539-9	106	104	94	90
4009-16	480-102539-10	106	104	95	92
4009-16A	480-102539-11	106	106	96	93
4009-18	480-102539-12	106	105	95	92
4009-19	480-102539-13	107	104	97	93
4009-21	480-102539-14	105	105	95	93
4009-22	480-102539-15	104	105	92	94
4009-27S	480-102539-16	99	101	98	95
4009-27I	480-102539-17	104	103	94	93
4009-27D	480-102539-18	103	102	92	91
4009-28	480-102539-19	103	105	95	93
4009-29S	480-102539-20	103	103	93	92
4009-29I	480-102539-21	106	108	95	93
4009-29D	480-102539-22	107	105	94	91
4009-30	480-102539-23	104	102	95	94
4009-30A	480-102539-24	105	104	94	91
4009-11A	480-102539-25	104	102	95	92
DUP-1_20160630	480-102539-26	105	106	100	98
DUP-2_20160630	480-102539-27	107	107	94	90
FIELD BLANK	480-102539-28	103	103	100	100
TRIP BLANK	480-102539-29	104	105	99	97
	MB 480-309812/6	99	98	94	95
	MB 480-309873/6	98	101	96	96
	MB 480-309962/6	105	104	100	99
	LCS 480-309812/4	100	101	93	98
	LCS 480-309873/4	103	103	95	101
	LCS 480-309962/4	104	104	98	103

	QC 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

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

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 #
	LCSD 480-309962/10	104	103	99	102
4009-14 MS	480-102539-8 MS	104	102	97	97
4009-27I MS	480-102539-17 MS	105	108	96	99
4009-14 MSD	480-102539-8 MSD	102	102	97	100
4009-27I MSD	480-102539-17 MSD	103	105	97	100

	QC 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

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7808.D

Lab ID: LCS 480-309812/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	24.2	97	73-126	
1,1,2,2-Tetrachloroethane	25.0	22.0	88	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.3	89	52-148	
1,1,2-Trichloroethane	25.0	22.1	88	76-122	
1,1-Dichloroethane	25.0	23.1	92	71-129	
1,1-Dichloroethene	25.0	22.7	91	58-121	
1,2,4-Trichlorobenzene	25.0	23.5	94	70-122	
1,2,4-Trimethylbenzene	25.0	24.1	97	76-121	
1,2-Dibromo-3-Chloropropane	25.0	22.0	88	56-134	
1,2-Dibromoethane	25.0	23.4	93	77-120	
1,2-Dichlorobenzene	25.0	22.5	90	80-124	
1,2-Dichloroethane	25.0	23.6	95	75-127	
1,2-Dichloropropane	25.0	23.2	93	76-120	
1,3,5-Trimethylbenzene	25.0	23.9	96	77-121	
1,3-Dichlorobenzene	25.0	22.5	90	77-120	
1,4-Dichlorobenzene	25.0	22.0	88	75-120	
2-Butanone (MEK)	125	116	93	57-140	
2-Hexanone	125	111	89	65-127	
4-Methyl-2-pentanone (MIBK)	125	109	88	71-125	
Acetone	125	127	101	56-142	
Benzene	25.0	22.3	89	71-124	
Bromodichloromethane	25.0	25.6	102	80-122	
Bromoform	25.0	24.7	99	52-132	
Bromomethane	25.0	28.2	113	55-144	
Carbon disulfide	25.0	23.0	92	59-134	
Carbon tetrachloride	25.0	25.3	101	72-134	
Chlorobenzene	25.0	22.2	89	72-120	
Chloroethane	25.0	22.1	88	69-136	
Chloroform	25.0	23.9	96	73-127	
Chloromethane	25.0	20.8	83	68-124	
cis-1,2-Dichloroethene	25.0	23.6	94	74-124	
cis-1,3-Dichloropropene	25.0	25.4	102	74-124	
Cyclohexane	25.0	21.4	86	59-135	
Dibromochloromethane	25.0	25.3	101	75-125	
Dichlorodifluoromethane	25.0	21.4	85	59-135	
Ethylbenzene	25.0	22.5	90	77-123	
Isopropylbenzene	25.0	23.5	94	77-122	
Methyl acetate	125	102	81	74-133	
Methyl tert-butyl ether	25.0	24.2	97	64-127	
Methylcyclohexane	25.0	22.1	88	61-138	
Methylene Chloride	25.0	24.4	97	57-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7808.D

Lab ID: LCS 480-309812/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Styrene	25.0	24.6	98	70-130	
Tetrachloroethene	25.0	21.8	87	74-122	
Toluene	25.0	23.7	95	80-122	
trans-1,2-Dichloroethene	25.0	23.4	94	73-127	
trans-1,3-Dichloropropene	25.0	24.6	98	72-123	
Trichloroethene	25.0	23.5	94	74-123	
Trichlorofluoromethane	25.0	24.5	98	62-152	
Vinyl chloride	25.0	21.5	86	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7837.D

Lab ID: LCS 480-309873/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.5	106	73-126	
1,1,2,2-Tetrachloroethane	25.0	22.6	90	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.5	106	52-148	
1,1,2-Trichloroethane	25.0	23.0	92	76-122	
1,1-Dichloroethane	25.0	24.4	97	71-129	
1,1-Dichloroethene	25.0	25.6	103	58-121	
1,2,4-Trichlorobenzene	25.0	24.1	96	70-122	
1,2,4-Trimethylbenzene	25.0	24.9	100	76-121	
1,2-Dibromo-3-Chloropropane	25.0	23.7	95	56-134	
1,2-Dibromoethane	25.0	24.3	97	77-120	
1,2-Dichlorobenzene	25.0	23.2	93	80-124	
1,2-Dichloroethane	25.0	25.2	101	75-127	
1,2-Dichloropropane	25.0	24.4	98	76-120	
1,3,5-Trimethylbenzene	25.0	24.5	98	77-121	
1,3-Dichlorobenzene	25.0	23.2	93	77-120	
1,4-Dichlorobenzene	25.0	22.9	92	75-120	
2-Butanone (MEK)	125	132	106	57-140	
2-Hexanone	125	122	98	65-127	
4-Methyl-2-pentanone (MIBK)	125	118	94	71-125	
Acetone	125	150	120	56-142	
Benzene	25.0	23.4	94	71-124	
Bromodichloromethane	25.0	26.5	106	80-122	
Bromoform	25.0	24.4	98	52-132	
Bromomethane	25.0	27.2	109	55-144	
Carbon disulfide	25.0	25.2	101	59-134	
Carbon tetrachloride	25.0	28.8	115	72-134	
Chlorobenzene	25.0	22.8	91	72-120	
Chloroethane	25.0	22.4	90	69-136	
Chloroform	25.0	25.2	101	73-127	
Chloromethane	25.0	21.2	85	68-124	
cis-1,2-Dichloroethene	25.0	24.4	97	74-124	
cis-1,3-Dichloropropene	25.0	26.0	104	74-124	
Cyclohexane	25.0	25.1	100	59-135	
Dibromochloromethane	25.0	25.5	102	75-125	
Dichlorodifluoromethane	25.0	21.3	85	59-135	
Ethylbenzene	25.0	24.0	96	77-123	
Isopropylbenzene	25.0	24.4	98	77-122	
Methyl acetate	125	113	90	74-133	
Methyl tert-butyl ether	25.0	24.9	99	64-127	
Methylcyclohexane	25.0	25.4	102	61-138	
Methylene Chloride	25.0	26.4	106	57-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7837.D

Lab ID: LCS 480-309873/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Styrene	25.0	25.5	102	70-130	
Tetrachloroethene	25.0	24.1	96	74-122	
Toluene	25.0	25.2	101	80-122	
trans-1,2-Dichloroethene	25.0	24.6	98	73-127	
trans-1,3-Dichloropropene	25.0	24.7	99	72-123	
Trichloroethene	25.0	25.0	100	74-123	
Trichlorofluoromethane	25.0	26.7	107	62-152	
Vinyl chloride	25.0	22.0	88	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7860.D

Lab ID: LCS 480-309962/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	24.2	97	73-126	
1,1,2,2-Tetrachloroethane	25.0	22.5	90	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.2	93	52-148	
1,1,2-Trichloroethane	25.0	22.6	90	76-122	
1,1-Dichloroethane	25.0	23.1	92	71-129	
1,1-Dichloroethene	25.0	22.9	92	58-121	
1,2,4-Trichlorobenzene	25.0	23.9	96	70-122	
1,2,4-Trimethylbenzene	25.0	24.6	98	76-121	
1,2-Dibromo-3-Chloropropane	25.0	23.4	94	56-134	
1,2-Dibromoethane	25.0	24.1	96	77-120	
1,2-Dichlorobenzene	25.0	23.3	93	80-124	
1,2-Dichloroethane	25.0	24.5	98	75-127	
1,2-Dichloropropane	25.0	23.5	94	76-120	
1,3,5-Trimethylbenzene	25.0	24.1	96	77-121	
1,3-Dichlorobenzene	25.0	22.9	92	77-120	
1,4-Dichlorobenzene	25.0	22.6	91	75-120	
2-Butanone (MEK)	125	124	99	57-140	
2-Hexanone	125	117	94	65-127	
4-Methyl-2-pentanone (MIBK)	125	116	93	71-125	
Acetone	125	138	110	56-142	
Benzene	25.0	22.3	89	71-124	
Bromodichloromethane	25.0	26.0	104	80-122	
Bromoform	25.0	23.7	95	52-132	
Bromomethane	25.0	28.2	113	55-144	
Carbon disulfide	25.0	21.5	86	59-134	
Carbon tetrachloride	25.0	25.9	104	72-134	
Chlorobenzene	25.0	22.7	91	72-120	
Chloroethane	25.0	22.2	89	69-136	
Chloroform	25.0	24.0	96	73-127	
Chloromethane	25.0	19.5	78	68-124	
cis-1,2-Dichloroethene	25.0	22.9	92	74-124	
cis-1,3-Dichloropropene	25.0	24.7	99	74-124	
Cyclohexane	25.0	21.9	88	59-135	
Dibromochloromethane	25.0	25.5	102	75-125	
Dichlorodifluoromethane	25.0	21.0	84	59-135	
Ethylbenzene	25.0	23.5	94	77-123	
Isopropylbenzene	25.0	23.8	95	77-122	
Methyl acetate	125	104	83	74-133	
Methyl tert-butyl ether	25.0	23.8	95	64-127	
Methylcyclohexane	25.0	21.9	88	61-138	
Methylene Chloride	25.0	24.6	99	57-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7860.D

Lab ID: LCS 480-309962/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Styrene	25.0	25.4	102	70-130	
Tetrachloroethene	25.0	22.7	91	74-122	
Toluene	25.0	24.6	99	80-122	
trans-1,2-Dichloroethene	25.0	23.3	93	73-127	
trans-1,3-Dichloropropene	25.0	24.5	98	72-123	
Trichloroethene	25.0	23.8	95	74-123	
Trichlorofluoromethane	25.0	24.9	99	62-152	
Vinyl chloride	25.0	21.3	85	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7871.D

Lab ID: LCSD 480-309962/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	24.9	99	2	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.6	82	9	15	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.6	94	1	20	52-148	
1,1,2-Trichloroethane	25.0	22.5	90	1	15	76-122	
1,1-Dichloroethane	25.0	23.4	94	2	20	71-129	
1,1-Dichloroethene	25.0	23.4	94	2	16	58-121	
1,2,4-Trichlorobenzene	25.0	23.0	92	4	20	70-122	
1,2,4-Trimethylbenzene	25.0	24.6	98	0	20	76-121	
1,2-Dibromo-3-Chloropropane	25.0	18.8	75	22	15	56-134	*
1,2-Dibromoethane	25.0	22.8	91	6	15	77-120	
1,2-Dichlorobenzene	25.0	22.9	92	1	20	80-124	
1,2-Dichloroethane	25.0	23.8	95	3	20	75-127	
1,2-Dichloropropane	25.0	23.1	92	2	20	76-120	
1,3,5-Trimethylbenzene	25.0	24.2	97	1	20	77-121	
1,3-Dichlorobenzene	25.0	22.8	91	0	20	77-120	
1,4-Dichlorobenzene	25.0	22.4	90	1	20	75-120	
2-Butanone (MEK)	125	91.9	73	30	20	57-140	*
2-Hexanone	125	98.9	79	17	15	65-127	*
4-Methyl-2-pentanone (MIBK)	125	101	81	14	35	71-125	
Acetone	125	101	81	31	15	56-142	*
Benzene	25.0	22.3	89	0	13	71-124	
Bromodichloromethane	25.0	25.2	101	3	15	80-122	
Bromoform	25.0	20.4	82	15	15	52-132	
Bromomethane	25.0	28.2	113	0	15	55-144	
Carbon disulfide	25.0	22.3	89	4	15	59-134	
Carbon tetrachloride	25.0	26.4	106	2	15	72-134	
Chlorobenzene	25.0	23.1	93	2	25	72-120	
Chloroethane	25.0	24.0	96	7	15	69-136	
Chloroform	25.0	24.4	98	2	20	73-127	
Chloromethane	25.0	19.9	80	2	15	68-124	
cis-1,2-Dichloroethene	25.0	23.3	93	2	15	74-124	
cis-1,3-Dichloropropene	25.0	22.0	88	11	15	74-124	
Cyclohexane	25.0	22.2	89	1	20	59-135	
Dibromochloromethane	25.0	24.8	99	3	15	75-125	
Dichlorodifluoromethane	25.0	20.6	82	2	20	59-135	
Ethylbenzene	25.0	23.8	95	1	15	77-123	
Isopropylbenzene	25.0	23.5	94	1	20	77-122	
Methyl acetate	125	87.2	70	18	20	74-133	*
Methyl tert-butyl ether	25.0	23.1	93	3	37	64-127	
Methylcyclohexane	25.0	21.6	86	2	20	61-138	
Methylene Chloride	25.0	24.8	99	1	15	57-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7871.D

Lab ID: LCSD 480-309962/10 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	25.0	25.4	101	0	20	70-130	
Tetrachloroethene	25.0	22.8	91	0	20	74-122	
Toluene	25.0	24.5	98	1	15	80-122	
trans-1,2-Dichloroethene	25.0	22.8	91	2	20	73-127	
trans-1,3-Dichloropropene	25.0	23.1	93	6	15	72-123	
Trichloroethene	25.0	22.5	90	5	16	74-123	
Trichlorofluoromethane	25.0	24.9	100	0	20	62-152	
Vinyl chloride	25.0	20.2	81	5	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7829.D

Lab ID: 480-102539-8 MS Client ID: 4009-14 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	1.0 U	27.5	110	73-126	
1,1,2,2-Tetrachloroethane	25.0	1.0 U	20.9	84	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	1.0 U	26.1	104	52-148	
1,1,2-Trichloroethane	25.0	1.0 U	22.8	91	76-122	
1,1-Dichloroethane	25.0	1.0 U	24.9	99	71-129	
1,1-Dichloroethene	25.0	1.0 U	26.6	106	58-121	
1,2,4-Trichlorobenzene	25.0	1.0 U	23.4	94	70-122	
1,2,4-Trimethylbenzene	25.0	1.0 U	24.8	99	76-121	
1,2-Dibromo-3-Chloropropane	25.0	1.0 U	19.9	80	56-134	
1,2-Dibromoethane	25.0	1.0 U	22.9	92	77-120	
1,2-Dichlorobenzene	25.0	1.0 U	22.8	91	80-124	
1,2-Dichloroethane	25.0	1.0 U	25.1	100	75-127	
1,2-Dichloropropane	25.0	1.0 U	23.8	95	76-120	
1,3,5-Trimethylbenzene	25.0	1.0 U	24.9	100	77-121	
1,3-Dichlorobenzene	25.0	1.0 U	22.6	90	77-120	
1,4-Dichlorobenzene	25.0	1.0 U	22.4	90	75-120	
2-Butanone (MEK)	125	10 U	101	81	57-140	
2-Hexanone	125	5.0 U	104	83	65-127	
4-Methyl-2-pentanone (MIBK)	125	5.0 U	105	84	71-125	
Acetone	125	4.1 J	118	91	56-142	
Benzene	25.0	14	37.2	91	71-124	
Bromodichloromethane	25.0	1.0 U	26.4	105	80-122	
Bromoform	25.0	1.0 U	21.1	84	52-132	
Bromomethane	25.0	1.0 U	27.2	109	55-144	
Carbon disulfide	25.0	1.0 U	25.1	100	59-134	
Carbon tetrachloride	25.0	1.0 U	29.5	118	72-134	
Chlorobenzene	25.0	1.0 U	23.5	94	72-120	
Chloroethane	25.0	1.0 U	27.3	109	69-136	
Chloroform	25.0	1.0 U	25.5	102	73-127	
Chloromethane	25.0	1.0 U	23.8	95	68-124	
cis-1,2-Dichloroethene	25.0	1.0 U	24.1	97	74-124	
cis-1,3-Dichloropropene	25.0	1.0 U	22.3	89	74-124	
Cyclohexane	25.0	1.0 U	24.7	99	59-135	
Dibromochloromethane	25.0	1.0 U	24.3	97	75-125	
Dichlorodifluoromethane	25.0	1.0 U	25.6	102	59-135	
Ethylbenzene	25.0	1.0 U	24.5	98	77-123	
Isopropylbenzene	25.0	1.0 U	24.8	99	77-122	
Methyl acetate	125	2.5 U	88.2	71	74-133	*
Methyl tert-butyl ether	25.0	1.0 U	23.8	95	64-127	
Methylcyclohexane	25.0	1.0 U	24.1	96	61-138	
Methylene Chloride	25.0	1.0 U	26.4	106	57-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7829.D

Lab ID: 480-102539-8 MS Client ID: 4009-14 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Styrene	25.0	1.0 U	25.5	102	70-130	
Tetrachloroethene	25.0	1.0 U	24.3	97	74-122	
Toluene	25.0	1.0 U	26.4	105	80-122	
trans-1,2-Dichloroethene	25.0	1.0 U	24.9	100	73-127	
trans-1,3-Dichloropropene	25.0	1.0 U	22.8	91	72-123	
Trichloroethene	25.0	1.0 U	24.7	99	74-123	
Trichlorofluoromethane	25.0	1.0 U	30.0	120	62-152	
Vinyl chloride	25.0	1.0 U	23.8	95	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7855.D

Lab ID: 480-102539-17 MS Client ID: 4009-27I MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	1.3	29.3	112	73-126	
1,1,2,2-Tetrachloroethane	25.0	1.0 U	21.3	85	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	0.40 J	25.8	102	52-148	
1,1,2-Trichloroethane	25.0	1.0 U	23.1	92	76-122	
1,1-Dichloroethane	25.0	1.0 U	25.5	102	71-129	
1,1-Dichloroethene	25.0	1.0 U	26.7	107	58-121	
1,2,4-Trichlorobenzene	25.0	1.0 U	22.7	91	70-122	
1,2,4-Trimethylbenzene	25.0	1.0 U	24.5	98	76-121	
1,2-Dibromo-3-Chloropropane	25.0	1.0 U	21.3	85	56-134	
1,2-Dibromoethane	25.0	1.0 U	23.9	96	77-120	
1,2-Dichlorobenzene	25.0	1.0 U	22.6	91	80-124	
1,2-Dichloroethane	25.0	1.0 U	26.0	104	75-127	
1,2-Dichloropropane	25.0	1.0 U	24.4	98	76-120	
1,3,5-Trimethylbenzene	25.0	1.0 U	24.4	98	77-121	
1,3-Dichlorobenzene	25.0	1.0 U	22.5	90	77-120	
1,4-Dichlorobenzene	25.0	1.0 U	22.6	90	75-120	
2-Butanone (MEK)	125	10 U	114	91	57-140	
2-Hexanone	125	5.0 U	114	91	65-127	
4-Methyl-2-pentanone (MIBK)	125	5.0 U	114	91	71-125	
Acetone	125	10 U	124	99	56-142	
Benzene	25.0	0.95 J	25.5	98	71-124	
Bromodichloromethane	25.0	1.0 U	27.6	111	80-122	
Bromoform	25.0	1.0 U	21.5	86	52-132	
Bromomethane	25.0	1.0 U	27.6	110	55-144	
Carbon disulfide	25.0	1.0 U	26.2	105	59-134	
Carbon tetrachloride	25.0	1.0 U	30.6	122	72-134	
Chlorobenzene	25.0	1.0 U	23.4	94	72-120	
Chloroethane	25.0	1.0 U	28.4	114	69-136	
Chloroform	25.0	1.0 U	26.7	107	73-127	
Chloromethane	25.0	1.0 U	20.5	82	68-124	
cis-1,2-Dichloroethene	25.0	1.0 U	25.3	101	74-124	
cis-1,3-Dichloropropene	25.0	1.0 U	22.4	89	74-124	
Cyclohexane	25.0	1.0 U	24.0	96	59-135	
Dibromochloromethane	25.0	1.0 U	25.3	101	75-125	
Dichlorodifluoromethane	25.0	1.0 U	22.3	89	59-135	
Ethylbenzene	25.0	1.0 U	24.7	99	77-123	
Isopropylbenzene	25.0	1.0 U	24.0	96	77-122	
Methyl acetate	125	2.5 U	94.8	76	74-133	
Methyl tert-butyl ether	25.0	1.0 U	23.7	95	64-127	
Methylcyclohexane	25.0	1.0 U	22.8	91	61-138	
Methylene Chloride	25.0	1.0 U	26.4	106	57-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7855.D

Lab ID: 480-102539-17 MS Client ID: 4009-27I MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Styrene	25.0	1.0 U	25.8	103	70-130	
Tetrachloroethene	25.0	1.0 U	24.1	97	74-122	
Toluene	25.0	1.0 U	25.6	102	80-122	
trans-1,2-Dichloroethene	25.0	1.0 U	26.2	105	73-127	
trans-1,3-Dichloropropene	25.0	1.0 U	22.4	90	72-123	
Trichloroethene	25.0	0.84 J	26.2	101	74-123	
Trichlorofluoromethane	25.0	1.0 U	29.2	117	62-152	
Vinyl chloride	25.0	1.0 U	21.8	87	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7830.D

Lab ID: 480-102539-8 MSD Client ID: 4009-14 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.8	107	2	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	21.4	85	2	15	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.4	102	2	20	52-148	
1,1,2-Trichloroethane	25.0	22.5	90	2	15	76-122	
1,1-Dichloroethane	25.0	24.5	98	1	20	71-129	
1,1-Dichloroethene	25.0	25.7	103	3	16	58-121	
1,2,4-Trichlorobenzene	25.0	23.2	93	1	20	70-122	
1,2,4-Trimethylbenzene	25.0	24.7	99	1	20	76-121	
1,2-Dibromo-3-Chloropropane	25.0	21.1	84	6	15	56-134	
1,2-Dibromoethane	25.0	23.3	93	2	15	77-120	
1,2-Dichlorobenzene	25.0	22.7	91	1	20	80-124	
1,2-Dichloroethane	25.0	24.8	99	1	20	75-127	
1,2-Dichloropropane	25.0	23.9	96	0	20	76-120	
1,3,5-Trimethylbenzene	25.0	24.6	99	1	20	77-121	
1,3-Dichlorobenzene	25.0	22.8	91	1	20	77-120	
1,4-Dichlorobenzene	25.0	22.4	90	0	20	75-120	
2-Butanone (MEK)	125	116	93	14	20	57-140	
2-Hexanone	125	111	89	7	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	110	88	4	35	71-125	
Acetone	125	137	107	15	15	56-142	
Benzene	25.0	36.9	90	1	13	71-124	
Bromodichloromethane	25.0	25.7	103	3	15	80-122	
Bromoform	25.0	20.5	82	3	15	52-132	
Bromomethane	25.0	27.0	108	1	15	55-144	
Carbon disulfide	25.0	24.4	98	3	15	59-134	
Carbon tetrachloride	25.0	28.8	115	2	15	72-134	
Chlorobenzene	25.0	23.1	92	1	25	72-120	
Chloroethane	25.0	26.1	104	5	15	69-136	
Chloroform	25.0	25.2	101	1	20	73-127	
Chloromethane	25.0	24.5	98	3	15	68-124	
cis-1,2-Dichloroethene	25.0	24.0	96	1	15	74-124	
cis-1,3-Dichloropropene	25.0	23.0	92	3	15	74-124	
Cyclohexane	25.0	24.4	98	1	20	59-135	
Dibromochloromethane	25.0	24.5	98	1	15	75-125	
Dichlorodifluoromethane	25.0	25.6	102	0	20	59-135	
Ethylbenzene	25.0	24.2	97	2	15	77-123	
Isopropylbenzene	25.0	24.5	98	1	20	77-122	
Methyl acetate	125	93.1	74	5	20	74-133	
Methyl tert-butyl ether	25.0	23.9	95	0	37	64-127	
Methylcyclohexane	25.0	23.6	94	2	20	61-138	
Methylene Chloride	25.0	25.4	102	4	15	57-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7830.D

Lab ID: 480-102539-8 MSD Client ID: 4009-14 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	25.0	25.1	100	2	20	70-130	
Tetrachloroethene	25.0	23.9	95	2	20	74-122	
Toluene	25.0	25.8	103	2	15	80-122	
trans-1,2-Dichloroethene	25.0	24.3	97	2	20	73-127	
trans-1,3-Dichloropropene	25.0	22.5	90	1	15	72-123	
Trichloroethene	25.0	24.2	97	2	16	74-123	
Trichlorofluoromethane	25.0	30.0	120	0	20	62-152	
Vinyl chloride	25.0	25.3	101	6	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7856.D

Lab ID: 480-102539-17 MSD Client ID: 4009-27I MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.4	104	7	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	21.9	88	3	15	70-126	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.7	93	8	20	52-148	
1,1,2-Trichloroethane	25.0	23.0	92	1	15	76-122	
1,1-Dichloroethane	25.0	25.4	102	0	20	71-129	
1,1-Dichloroethene	25.0	25.3	101	6	16	58-121	
1,2,4-Trichlorobenzene	25.0	22.1	89	3	20	70-122	
1,2,4-Trimethylbenzene	25.0	23.1	92	6	20	76-121	
1,2-Dibromo-3-Chloropropane	25.0	22.7	91	6	15	56-134	
1,2-Dibromoethane	25.0	23.6	95	1	15	77-120	
1,2-Dichlorobenzene	25.0	22.0	88	3	20	80-124	
1,2-Dichloroethane	25.0	25.6	102	1	20	75-127	
1,2-Dichloropropane	25.0	23.9	96	2	20	76-120	
1,3,5-Trimethylbenzene	25.0	22.5	90	8	20	77-121	
1,3-Dichlorobenzene	25.0	21.7	87	4	20	77-120	
1,4-Dichlorobenzene	25.0	21.4	85	5	20	75-120	
2-Butanone (MEK)	125	120	96	5	20	57-140	
2-Hexanone	125	119	95	4	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	117	94	3	35	71-125	
Acetone	125	136	109	9	15	56-142	
Benzene	25.0	24.3	93	5	13	71-124	
Bromodichloromethane	25.0	27.3	109	1	15	80-122	
Bromoform	25.0	21.6	86	0	15	52-132	
Bromomethane	25.0	34.1	136	21	15	55-144	*
Carbon disulfide	25.0	23.4	94	11	15	59-134	
Carbon tetrachloride	25.0	28.2	113	8	15	72-134	
Chlorobenzene	25.0	22.4	90	4	25	72-120	
Chloroethane	25.0	28.1	112	1	15	69-136	
Chloroform	25.0	26.1	104	2	20	73-127	
Chloromethane	25.0	22.1	88	8	15	68-124	
cis-1,2-Dichloroethene	25.0	24.6	98	3	15	74-124	
cis-1,3-Dichloropropene	25.0	22.6	90	1	15	74-124	
Cyclohexane	25.0	21.3	85	12	20	59-135	
Dibromochloromethane	25.0	25.1	100	1	15	75-125	
Dichlorodifluoromethane	25.0	22.1	89	1	20	59-135	
Ethylbenzene	25.0	22.8	91	8	15	77-123	
Isopropylbenzene	25.0	22.2	89	8	20	77-122	
Methyl acetate	125	99.0	79	4	20	74-133	
Methyl tert-butyl ether	25.0	24.3	97	3	37	64-127	
Methylcyclohexane	25.0	21.1	84	8	20	61-138	
Methylene Chloride	25.0	25.9	104	2	15	57-132	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P7856.D

Lab ID: 480-102539-17 MSD Client ID: 4009-27I MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Styrene	25.0	24.7	99	4	20	70-130	
Tetrachloroethene	25.0	22.1	88	9	20	74-122	
Toluene	25.0	24.4	98	5	15	80-122	
trans-1,2-Dichloroethene	25.0	24.4	97	7	20	73-127	
trans-1,3-Dichloropropene	25.0	22.6	91	1	15	72-123	
Trichloroethene	25.0	24.6	95	6	16	74-123	
Trichlorofluoromethane	25.0	27.9	111	5	20	62-152	
Vinyl chloride	25.0	23.5	94	8	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab File ID: P7810.D Lab Sample ID: MB 480-309812/6

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

Instrument ID: HP5973P Date Analyzed: 07/05/2016 23:40

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 480-309812/4	P7808.D	07/05/2016 22:45
WELL 1-1	480-102539-1	P7814.D	07/06/2016 01:43
4009-9	480-102539-2	P7815.D	07/06/2016 02:10
4009-10	480-102539-3	P7816.D	07/06/2016 02:37
4009-11	480-102539-4	P7817.D	07/06/2016 03:04
4009-12	480-102539-5	P7818.D	07/06/2016 03:31
4009-13	480-102539-6	P7819.D	07/06/2016 03:59
4009-13A	480-102539-7	P7820.D	07/06/2016 04:26
4009-14	480-102539-8	P7821.D	07/06/2016 04:53
4009-15	480-102539-9	P7822.D	07/06/2016 05:20
4009-16	480-102539-10	P7823.D	07/06/2016 05:48
4009-16A	480-102539-11	P7824.D	07/06/2016 06:15
4009-18	480-102539-12	P7825.D	07/06/2016 06:42
4009-19	480-102539-13	P7826.D	07/06/2016 07:09
4009-21	480-102539-14	P7827.D	07/06/2016 07:37
4009-22	480-102539-15	P7828.D	07/06/2016 08:04
4009-14 MS	480-102539-8 MS	P7829.D	07/06/2016 08:31
4009-14 MSD	480-102539-8 MSD	P7830.D	07/06/2016 08:59

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab File ID: P7839.D Lab Sample ID: MB 480-309873/6

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

Instrument ID: HP5973P Date Analyzed: 07/06/2016 12:29

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 480-309873/4	P7837.D	07/06/2016 11:35
4009-27S	480-102539-16	P7841.D	07/06/2016 14:03
4009-27I	480-102539-17	P7842.D	07/06/2016 14:30
4009-27D	480-102539-18	P7843.D	07/06/2016 14:58
4009-28	480-102539-19	P7844.D	07/06/2016 15:25
4009-29S	480-102539-20	P7845.D	07/06/2016 15:53
4009-29I	480-102539-21	P7846.D	07/06/2016 16:20
4009-29D	480-102539-22	P7847.D	07/06/2016 16:48
4009-30	480-102539-23	P7848.D	07/06/2016 17:16
4009-30A	480-102539-24	P7849.D	07/06/2016 17:43
4009-11A	480-102539-25	P7850.D	07/06/2016 19:48
DUP-2_20160630	480-102539-27	P7852.D	07/06/2016 20:43
4009-27I MS	480-102539-17 MS	P7855.D	07/06/2016 21:10
4009-27I MSD	480-102539-17 MSD	P7856.D	07/06/2016 21:38

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab File ID: P7862.D Lab Sample ID: MB 480-309962/6

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

Instrument ID: HP5973P Date Analyzed: 07/07/2016 00:25

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 480-309962/4	P7860.D	07/06/2016 23:30
DUP-1_20160630	480-102539-26	P7863.D	07/07/2016 01:11
FIELD BLANK	480-102539-28	P7864.D	07/07/2016 01:38
TRIP BLANK	480-102539-29	P7865.D	07/07/2016 02:06
	LCSD 480-309962/10	P7871.D	07/07/2016 04:49

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab File ID: P7349.D BFB Injection Date: 06/19/2016

Instrument ID: HP5973P BFB Injection Time: 21:49

Analysis Batch No.: 307413

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.5	
75	30.0 - 60.0 % of mass 95	49.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	96.1	
175	5.0 - 9.0 % of mass 174	7.4	(7.7) 1
176	95.0 - 101.0 % of mass 174	93.1	(96.9) 1
177	5.0 - 9.0 % of mass 176	7.1	(7.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-307413/4	P7351.D	06/19/2016	22:45
	IC 480-307413/5	P7352.D	06/19/2016	23:13
	IC 480-307413/6	P7353.D	06/19/2016	23:40
	IC 480-307413/7	P7354.D	06/20/2016	00:07
	ICIS 480-307413/8	P7355.D	06/20/2016	00:34
	IC 480-307413/9	P7356.D	06/20/2016	01:02
	IC 480-307413/10	P7357.D	06/20/2016	01:29
	IC 480-307413/12	P7359.D	06/20/2016	02:23
	IC 480-307413/13	P7360.D	06/20/2016	02:50
	IC 480-307413/14	P7361.D	06/20/2016	03:18
	IC 480-307413/15	P7362.D	06/20/2016	03:45
	IC 480-307413/16	P7363.D	06/20/2016	04:12
	IC 480-307413/17	P7364.D	06/20/2016	04:39
	IC 480-307413/18	P7365.D	06/20/2016	05:07

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab File ID: P7805.D BFB Injection Date: 07/05/2016

Instrument ID: HP5973P BFB Injection Time: 21:24

Analysis Batch No.: 309812

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.1	
75	30.0 - 60.0 % of mass 95	47.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	92.1	
175	5.0 - 9.0 % of mass 174	7.0	(7.6) 1
176	95.0 - 101.0 % of mass 174	90.8	(98.6) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.3) 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 480-309812/2	P7806.D	07/05/2016	21:51
	CCV 480-309812/3	P7807.D	07/05/2016	22:18
	LCS 480-309812/4	P7808.D	07/05/2016	22:45
	MB 480-309812/6	P7810.D	07/05/2016	23:40
WELL 1-1	480-102539-1	P7814.D	07/06/2016	01:43
4009-9	480-102539-2	P7815.D	07/06/2016	02:10
4009-10	480-102539-3	P7816.D	07/06/2016	02:37
4009-11	480-102539-4	P7817.D	07/06/2016	03:04
4009-12	480-102539-5	P7818.D	07/06/2016	03:31
4009-13	480-102539-6	P7819.D	07/06/2016	03:59
4009-13A	480-102539-7	P7820.D	07/06/2016	04:26
4009-14	480-102539-8	P7821.D	07/06/2016	04:53
4009-15	480-102539-9	P7822.D	07/06/2016	05:20
4009-16	480-102539-10	P7823.D	07/06/2016	05:48
4009-16A	480-102539-11	P7824.D	07/06/2016	06:15
4009-18	480-102539-12	P7825.D	07/06/2016	06:42
4009-19	480-102539-13	P7826.D	07/06/2016	07:09
4009-21	480-102539-14	P7827.D	07/06/2016	07:37
4009-22	480-102539-15	P7828.D	07/06/2016	08:04
4009-14 MS	480-102539-8 MS	P7829.D	07/06/2016	08:31
4009-14 MSD	480-102539-8 MSD	P7830.D	07/06/2016	08:59

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab File ID: P7834.D BFB Injection Date: 07/06/2016

Instrument ID: HP5973P BFB Injection Time: 09:55

Analysis Batch No.: 309873

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.9	
75	30.0 - 60.0 % of mass 95	48.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	92.8	
175	5.0 - 9.0 % of mass 174	7.5	(8.1) 1
176	95.0 - 101.0 % of mass 174	91.8	(98.9) 1
177	5.0 - 9.0 % of mass 176	6.1	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-309873/2	P7835.D	07/06/2016	10:24
	CCV 480-309873/3	P7836.D	07/06/2016	11:07
	LCS 480-309873/4	P7837.D	07/06/2016	11:35
	MB 480-309873/6	P7839.D	07/06/2016	12:29
4009-27S	480-102539-16	P7841.D	07/06/2016	14:03
4009-27I	480-102539-17	P7842.D	07/06/2016	14:30
4009-27D	480-102539-18	P7843.D	07/06/2016	14:58
4009-28	480-102539-19	P7844.D	07/06/2016	15:25
4009-29S	480-102539-20	P7845.D	07/06/2016	15:53
4009-29I	480-102539-21	P7846.D	07/06/2016	16:20
4009-29D	480-102539-22	P7847.D	07/06/2016	16:48
4009-30	480-102539-23	P7848.D	07/06/2016	17:16
4009-30A	480-102539-24	P7849.D	07/06/2016	17:43
4009-11A	480-102539-25	P7850.D	07/06/2016	19:48
DUP-2_20160630	480-102539-27	P7852.D	07/06/2016	20:43
4009-27I MS	480-102539-17 MS	P7855.D	07/06/2016	21:10
4009-27I MSD	480-102539-17 MSD	P7856.D	07/06/2016	21:38

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab File ID: P7857.D BFB Injection Date: 07/06/2016

Instrument ID: HP5973P BFB Injection Time: 22:09

Analysis Batch No.: 309962

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	48.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	89.7	
175	5.0 - 9.0 % of mass 174	7.0	(7.7) 1
176	95.0 - 101.0 % of mass 174	85.6	(95.4) 1
177	5.0 - 9.0 % of mass 176	6.0	(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 480-309962/2	P7858.D	07/06/2016	22:36
	CCV 480-309962/3	P7859.D	07/06/2016	23:03
	LCS 480-309962/4	P7860.D	07/06/2016	23:30
	MB 480-309962/6	P7862.D	07/07/2016	00:25
DUP-1_20160630	480-102539-26	P7863.D	07/07/2016	01:11
FIELD BLANK	480-102539-28	P7864.D	07/07/2016	01:38
TRIP BLANK	480-102539-29	P7865.D	07/07/2016	02:06
	LCSD 480-309962/10	P7871.D	07/07/2016	04:49

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Sample No.: ICIS 480-307413/8 Date Analyzed: 06/20/2016 00:34

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): P7355.D Heated Purge: (Y/N) N

Calibration ID: 27803

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		136122	9.85	275026	13.79	328607	16.78
UPPER LIMIT		272244	10.35	550052	14.29	657214	17.28
LOWER LIMIT		68061	9.35	137513	13.29	164304	16.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-309812/2		112761	9.85	234674	13.79	288306	16.78
CCVIS 480-309873/2		106774	9.85	233663	13.79	279564	16.78
CCVIS 480-309962/2		105224	9.85	216255	13.79	259542	16.78

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Sample No.: CCVIS 480-309812/2 Date Analyzed: 07/05/2016 21:51

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): P7806.D Heated Purge: (Y/N) N

Calibration ID: 27805

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		112761	9.85	234674	13.79	288306	16.78
UPPER LIMIT		225522	10.35	469348	14.29	576612	17.28
LOWER LIMIT		56381	9.35	117337	13.29	144153	16.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-309812/3		115387	9.85	243846	13.79	301041	16.78
LCS 480-309812/4		116927	9.86	250727	13.79	298389	16.78
MB 480-309812/6		114364	9.86	236686	13.79	286865	16.78
480-102539-1	WELL 1-1	110493	9.86	226217	13.79	268109	16.78
480-102539-2	4009-9	107392	9.86	222585	13.79	266007	16.78
480-102539-3	4009-10	104358	9.86	217522	13.79	262413	16.78
480-102539-4	4009-11	105261	9.85	216241	13.79	255287	16.78
480-102539-5	4009-12	107543	9.85	212146	13.79	255210	16.78
480-102539-6	4009-13	103588	9.86	213232	13.79	257529	16.78
480-102539-7	4009-13A	101129	9.86	205249	13.79	251603	16.78
480-102539-8	4009-14	102462	9.86	211083	13.79	251330	16.78
480-102539-9	4009-15	99188	9.85	208264	13.79	252791	16.78
480-102539-10	4009-16	99302	9.85	203690	13.79	252073	16.78
480-102539-11	4009-16A	99525	9.86	204196	13.79	249267	16.78
480-102539-12	4009-18	98148	9.86	202515	13.79	241868	16.78
480-102539-13	4009-19	99588	9.86	201666	13.79	246685	16.78
480-102539-14	4009-21	98815	9.86	199876	13.79	244626	16.78
480-102539-15	4009-22	98347	9.86	203075	13.79	250806	16.78
480-102539-8 MS	4009-14 MS	105072	9.86	218367	13.79	273221	16.78
480-102539-8 MSD	4009-14 MSD	108849	9.86	227364	13.79	279773	16.78

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Sample No.: CCVIS 480-309873/2 Date Analyzed: 07/06/2016 10:24

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): P7835.D Heated Purge: (Y/N) N

Calibration ID: 27805

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		106774	9.85	233663	13.79	279564	16.78
UPPER LIMIT		213548	10.35	467326	14.29	559128	17.28
LOWER LIMIT		53387	9.35	116832	13.29	139782	16.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-309873/3		111402	9.85	232538	13.79	284894	16.78
LCS 480-309873/4		110308	9.85	238401	13.79	290482	16.78
MB 480-309873/6		110804	9.86	227320	13.79	280978	16.78
480-102539-16	4009-27S	106917	9.85	217786	13.79	269528	16.78
480-102539-17	4009-27I	103605	9.86	222452	13.79	266274	16.78
480-102539-18	4009-27D	103673	9.86	218026	13.79	258947	16.78
480-102539-19	4009-28	101071	9.85	212018	13.79	257244	16.78
480-102539-20	4009-29S	101651	9.86	212771	13.79	249378	16.78
480-102539-21	4009-29I	100468	9.85	206099	13.79	245693	16.78
480-102539-22	4009-29D	98500	9.85	204004	13.79	243451	16.78
480-102539-23	4009-30	98466	9.86	196818	13.79	240515	16.78
480-102539-24	4009-30A	96419	9.86	201243	13.79	238902	16.78
480-102539-25	4009-11A	108996	9.85	216999	13.79	262858	16.78
480-102539-27	DUP-2_20160630	96044	9.86	199381	13.79	236006	16.78
480-102539-17 MS	4009-27I MS	99447	9.86	211232	13.79	270630	16.78
480-102539-17 MSD	4009-27I MSD	104637	9.86	219335	13.79	276343	16.78

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Sample No.: CCVIS 480-309962/2 Date Analyzed: 07/06/2016 22:36

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm)

Lab File ID (Standard): P7858.D Heated Purge: (Y/N) N

Calibration ID: 27805

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		105224	9.85	216255	13.79	259542	16.78
UPPER LIMIT		210448	10.35	432510	14.29	519084	17.28
LOWER LIMIT		52612	9.35	108128	13.29	129771	16.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-309962/3		104765	9.85	220034	13.79	275906	16.78
LCS 480-309962/4		109778	9.86	229027	13.79	281223	16.78
MB 480-309962/6		107160	9.86	212252	13.80	264368	16.78
480-102539-26	DUP-1_20160630	103142	9.85	203833	13.79	251877	16.78
480-102539-28	FIELD BLANK	105051	9.85	207009	13.79	252554	16.78
480-102539-29	TRIP BLANK	103000	9.86	205044	13.79	247761	16.78
LCSD 480-309962/10		106718	9.86	214102	13.79	268114	16.78

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: WELL 1-1 | Lab Sample ID: 480-102539-1

Matrix: Water | Lab File ID: P7814.D

Analysis Method: 8260C | Date Collected: 06/30/2016 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 01:43

Soil Aliquot Vol: | Dilution Factor: 5

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

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

Analysis Batch No.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	210		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4.3	J	5.0	1.6
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	1.2
75-34-3	1,1-Dichloroethane	14		5.0	1.9
75-35-4	1,1-Dichloroethene	5.0	U	5.0	1.5
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	1.3
120-82-1	1,2,4-Trichlorobenzene	5.0	U	5.0	2.1
95-63-6	1,2,4-Trimethylbenzene	5.0	U	5.0	3.8
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.0
106-93-4	1,2-Dibromoethane	5.0	U	5.0	3.7
95-50-1	1,2-Dichlorobenzene	5.0	U	5.0	4.0
107-06-2	1,2-Dichloroethane	5.0	U	5.0	1.1
78-87-5	1,2-Dichloropropane	5.0	U	5.0	3.6
108-67-8	1,3,5-Trimethylbenzene	5.0	U	5.0	3.9
541-73-1	1,3-Dichlorobenzene	5.0	U	5.0	3.9
106-46-7	1,4-Dichlorobenzene	5.0	U	5.0	4.2
78-93-3	2-Butanone (MEK)	50	U	50	6.6
591-78-6	2-Hexanone	25	U	25	6.2
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	11
67-64-1	Acetone	50	U	50	15
71-43-2	Benzene	5.0	U	5.0	2.1
75-27-4	Bromodichloromethane	5.0	U	5.0	2.0
75-25-2	Bromoform	5.0	U	5.0	1.3
74-83-9	Bromomethane	5.0	U	5.0	3.5
75-15-0	Carbon disulfide	5.0	U	5.0	0.95
56-23-5	Carbon tetrachloride	5.0	U	5.0	1.4
108-90-7	Chlorobenzene	5.0	U	5.0	3.8
75-00-3	Chloroethane	5.0	U	5.0	1.6
67-66-3	Chloroform	5.0	U	5.0	1.7
74-87-3	Chloromethane	5.0	U	5.0	1.8
156-59-2	cis-1,2-Dichloroethene	52		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	1.8
110-82-7	Cyclohexane	5.0	U	5.0	0.90
124-48-1	Dibromochloromethane	5.0	U	5.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: WELL 1-1 | Lab Sample ID: 480-102539-1

Matrix: Water | Lab File ID: P7814.D

Analysis Method: 8260C | Date Collected: 06/30/2016 09:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 01:43

Soil Aliquot Vol: | Dilution Factor: 5

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

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

Analysis Batch No.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	5.0	U	5.0	3.4
100-41-4	Ethylbenzene	5.0	U	5.0	3.7
98-82-8	Isopropylbenzene	5.0	U	5.0	4.0
79-20-9	Methyl acetate	13	U	13	6.5
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.80
108-87-2	Methylcyclohexane	5.0	U	5.0	0.80
75-09-2	Methylene Chloride	5.0	U	5.0	2.2
100-42-5	Styrene	5.0	U	5.0	3.7
127-18-4	Tetrachloroethene	5.0	U	5.0	1.8
108-88-3	Toluene	5.0	U	5.0	2.6
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	1.9
79-01-6	Trichloroethene	56		5.0	2.3
75-69-4	Trichlorofluoromethane	5.0	U	5.0	4.4
75-01-4	Vinyl chloride	5.0	U	5.0	4.5
1330-20-7	Xylenes, Total	10	U	10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		66-137
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7814.D
Lims ID: 480-102539-A-1
Client ID: WELL 1-1
Sample Type: Client
Inject. Date: 06-Jul-2016 01:43:30 ALS Bottle#: 10 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 480-102539-a-1
Misc. Info.: 480-0054594-029
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:00:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	110493	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	226217	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	96	268109	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.043	-0.001	93	158924	25.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	98889	25.1	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	510725	23.6	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	94	189424	23.0	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101	6.281	6.274	0.007	36	7055	0.8557	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63	7.789	7.783	0.006	96	42283	2.83	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	82	90501	10.3	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	98	537368	41.5	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.547				ND	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95	10.308	10.302	0.006	94	91374	11.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

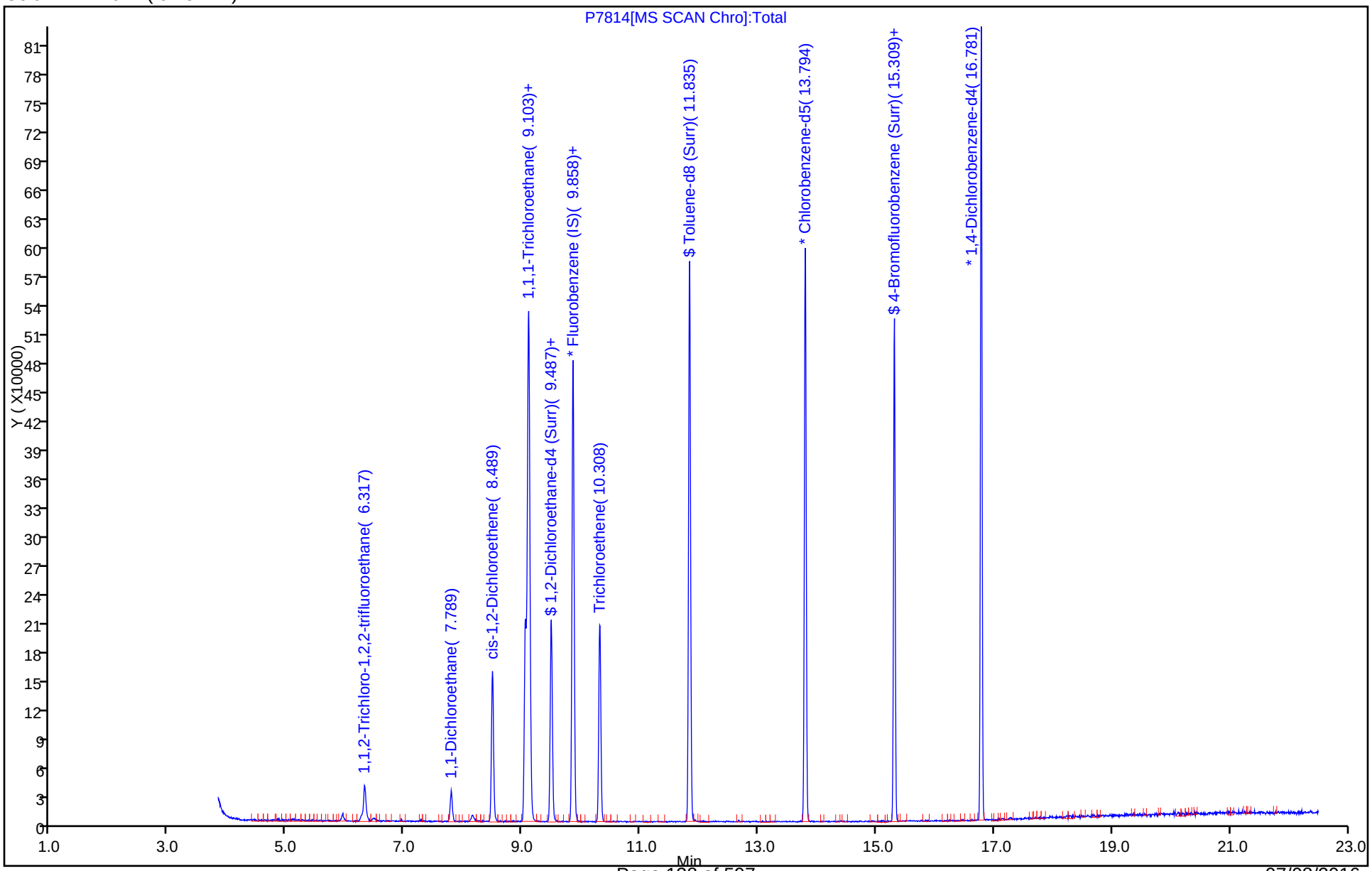
Report Date: 07-Jul-2016 08:00:27 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7814.D

Injection Date:	06-Jul-2016 01:43:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-1	Lab Sample ID:	480-102539-1	Worklist Smp#:	29
Client ID:	WELL 1-1				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	10
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



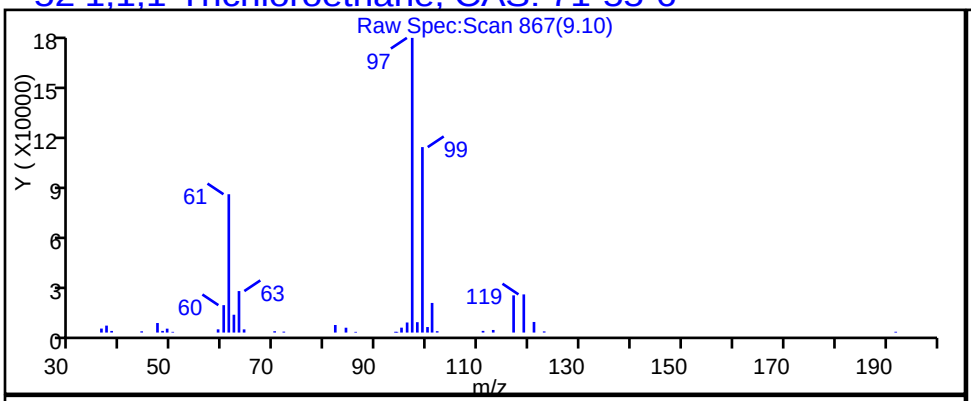
Report Date: 07-Jul-2016 08:00:27 Chrom Revision: 2.2 20-Apr-2016 13:59:46

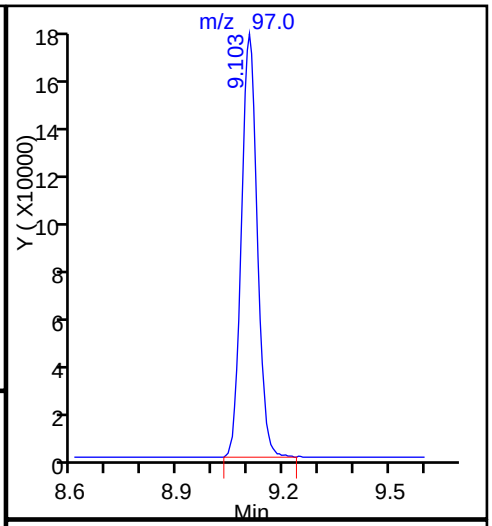
TestAmerica Buffalo

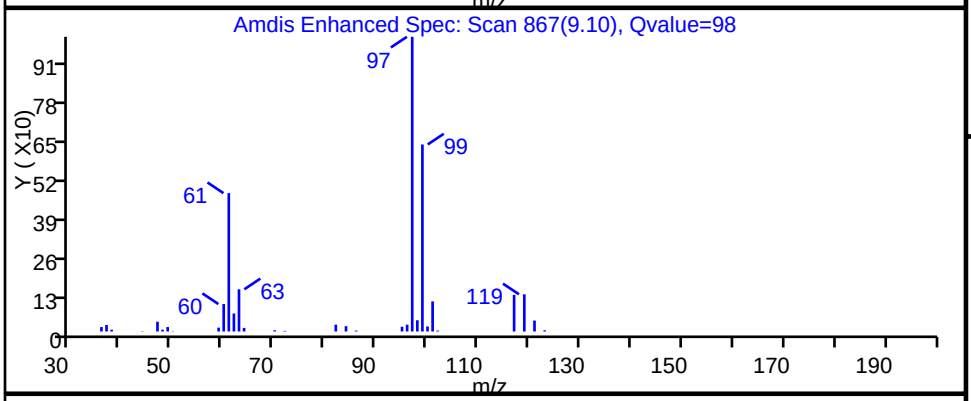
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7814.D

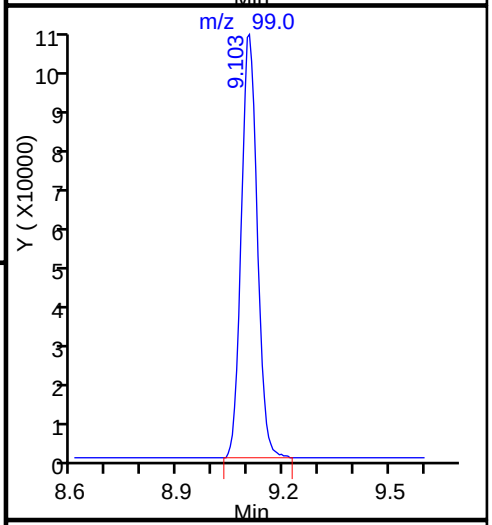
Injection Date:	06-Jul-2016 01:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-1	Lab Sample ID:	480-102539-1		
Client ID:	WELL 1-1				
Operator ID:	SY	ALS Bottle#:	10	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

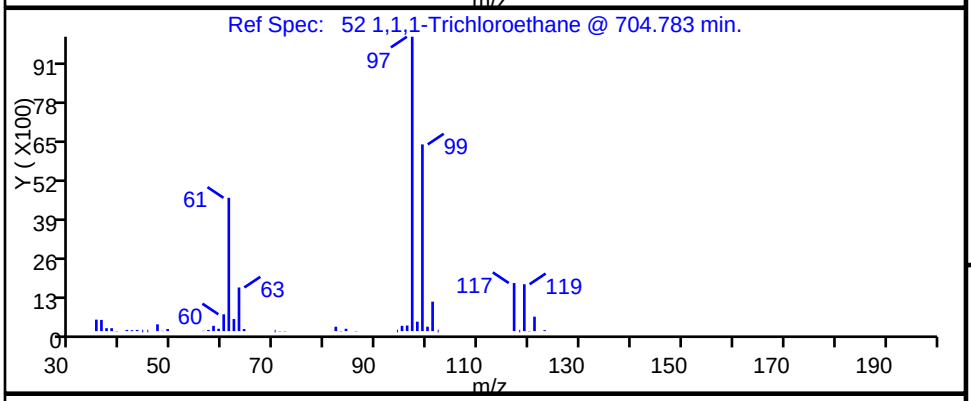
52 1,1,1-Trichloroethane, CAS: 71-55-6

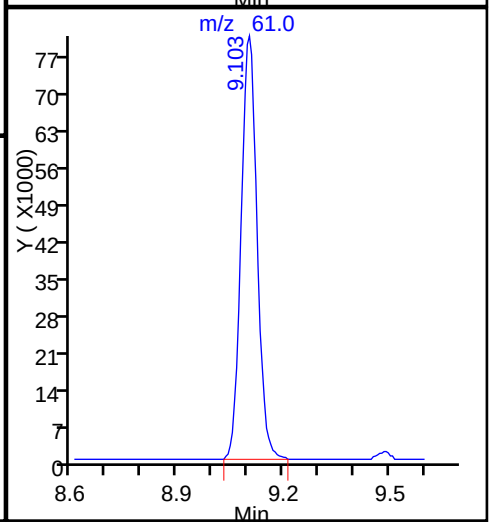


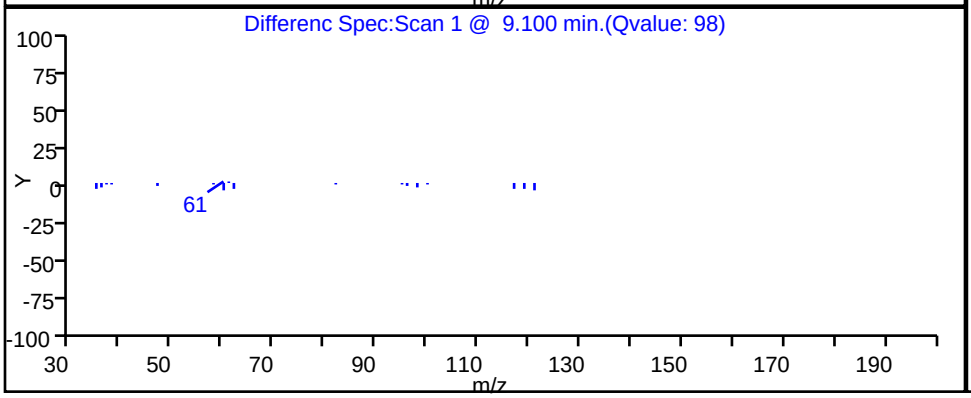












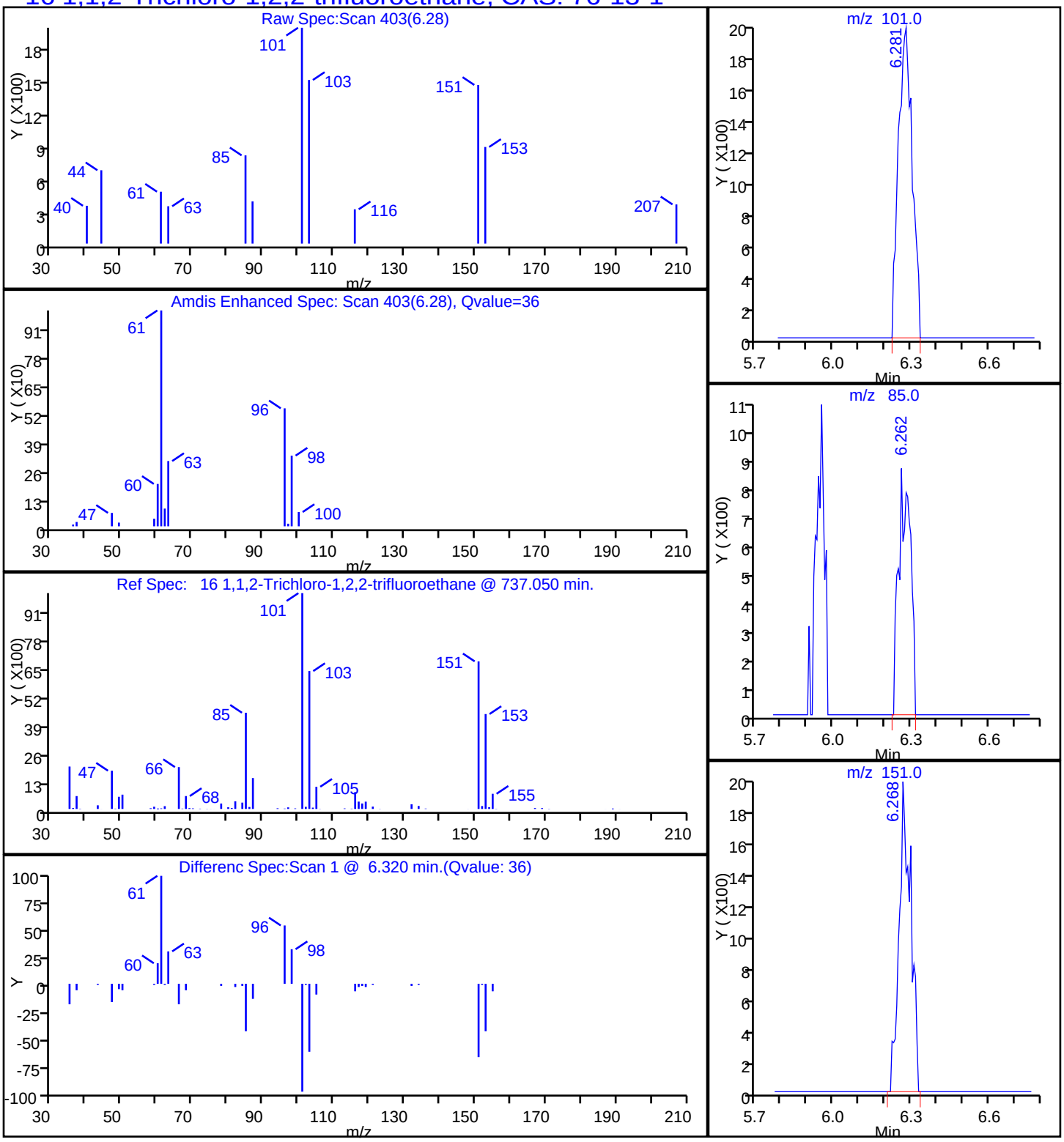
Report Date: 07-Jul-2016 08:00:27 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7814.D

Injection Date:	06-Jul-2016 01:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-1	Lab Sample ID:	480-102539-1		
Client ID:	WELL 1-1				
Operator ID:	SY	ALS Bottle#:	10	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

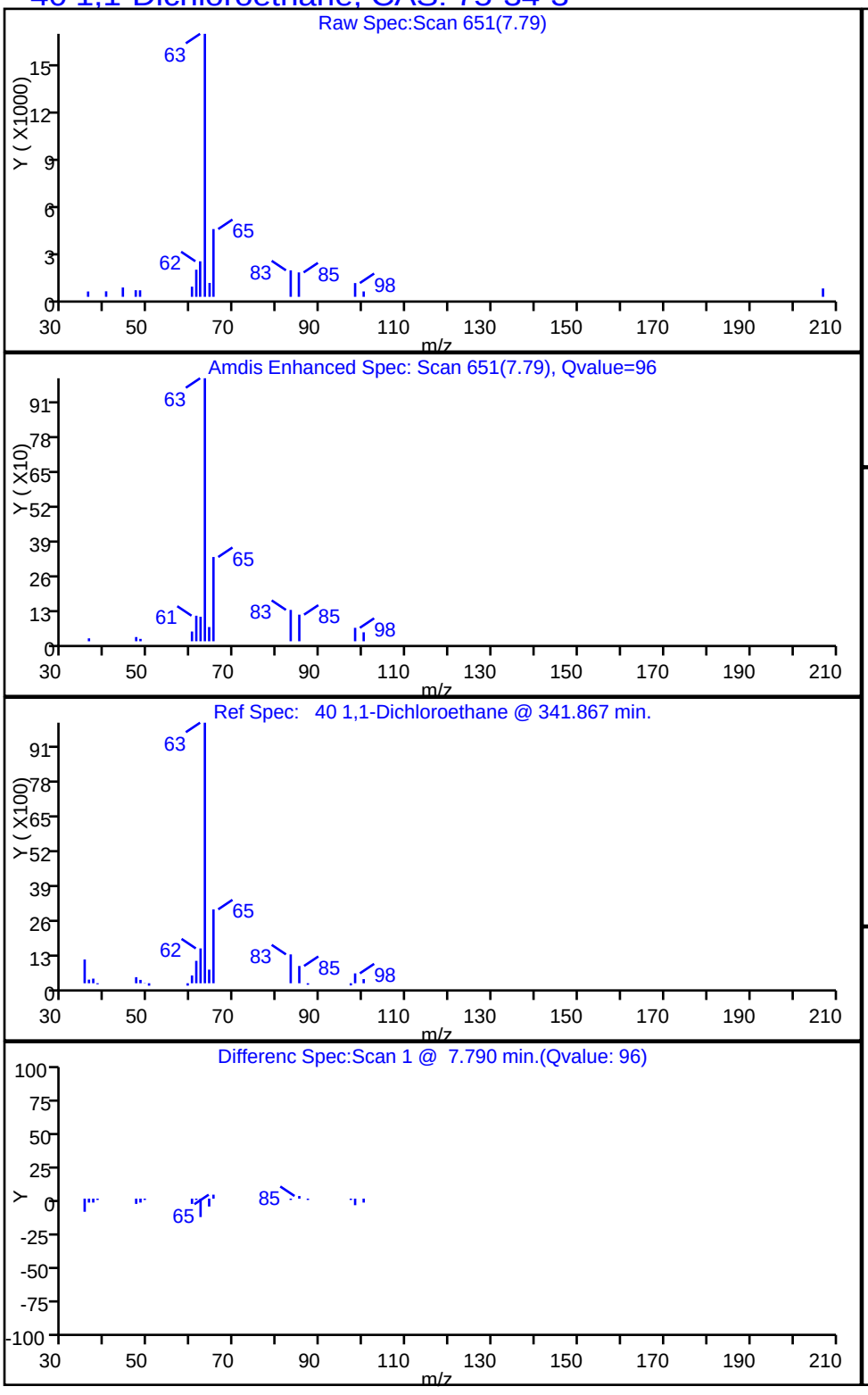


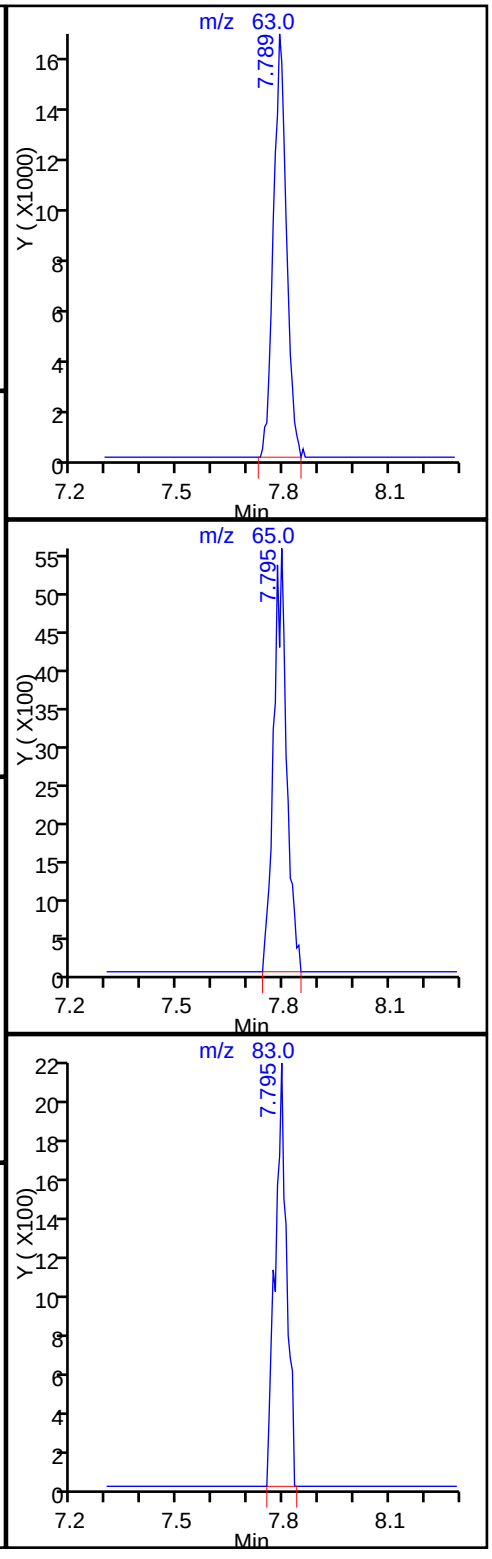
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7814.D

Injection Date:	06-Jul-2016 01:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-1	Lab Sample ID:	480-102539-1		
Client ID:	WELL 1-1				
Operator ID:	SY	ALS Bottle#:	10	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

40 1,1-Dichloroethane, CAS: 75-34-3

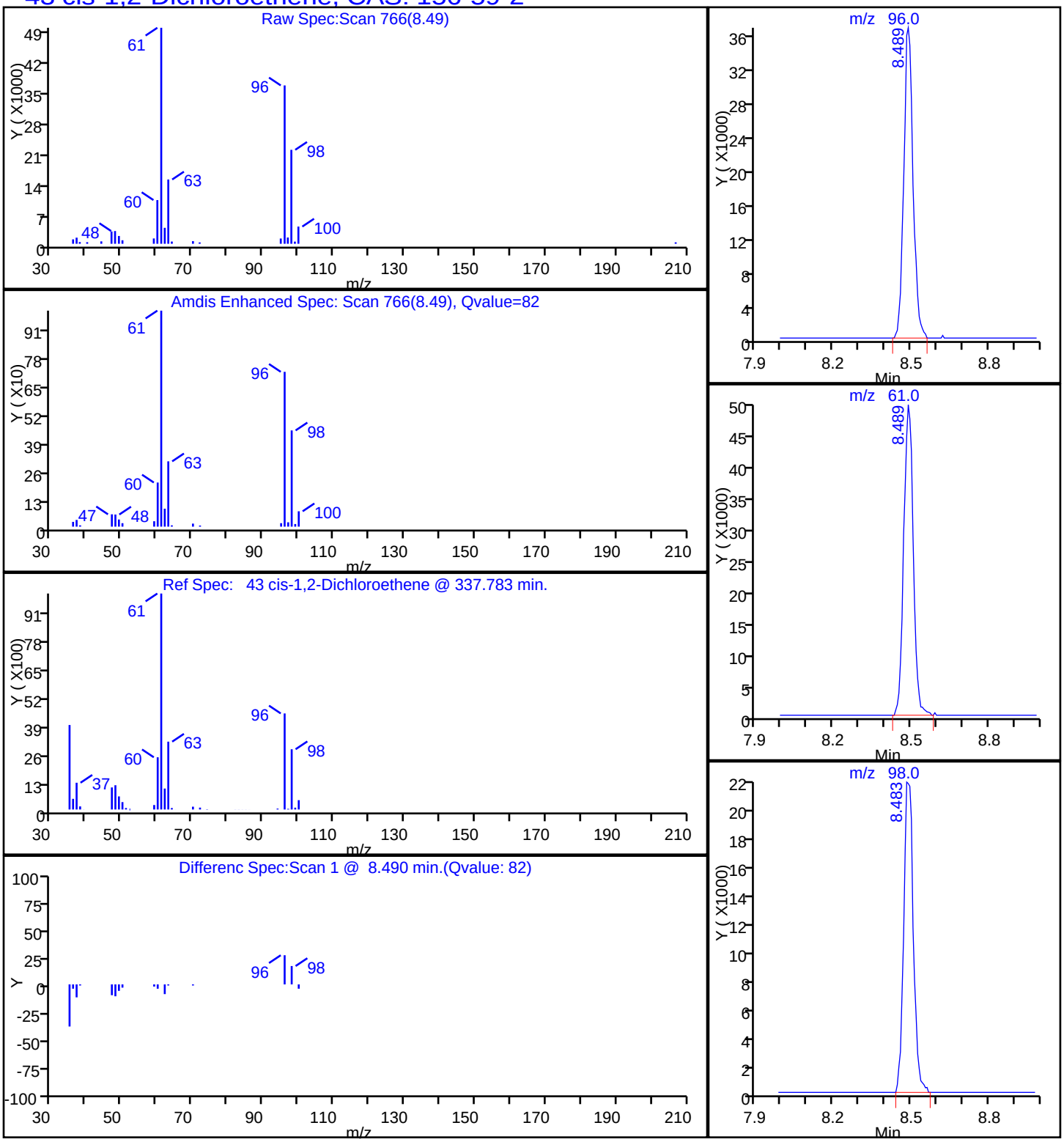




TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7814.D				
Injection Date:	06-Jul-2016 01:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-1	Lab Sample ID:	480-102539-1		
Client ID:	WELL 1-1				
Operator ID:	SY	ALS Bottle#:	10	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

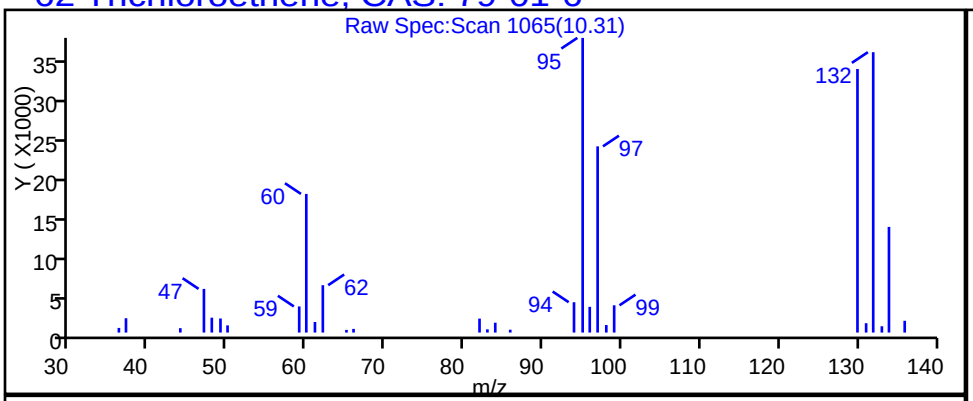
43 cis-1,2-Dichloroethene, CAS: 156-59-2

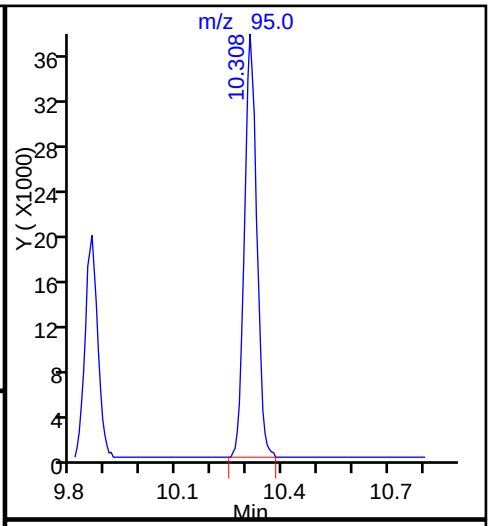


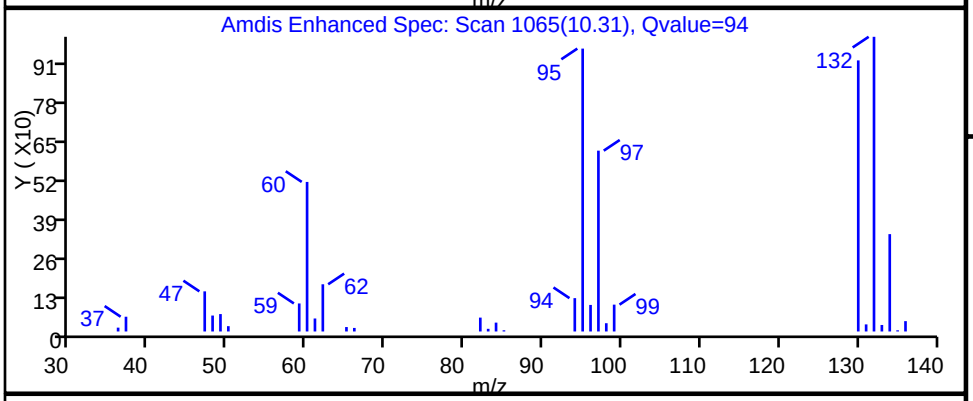
TestAmerica Buffalo

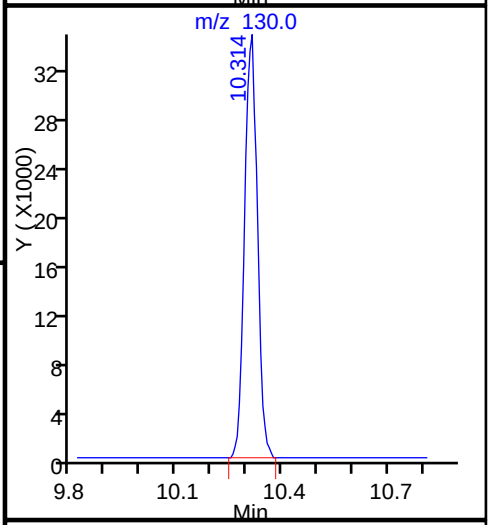
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7814.D				
Injection Date:	06-Jul-2016 01:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-1	Lab Sample ID:	480-102539-1		
Client ID:	WELL 1-1				
Operator ID:	SY	ALS Bottle#:	10	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	5.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

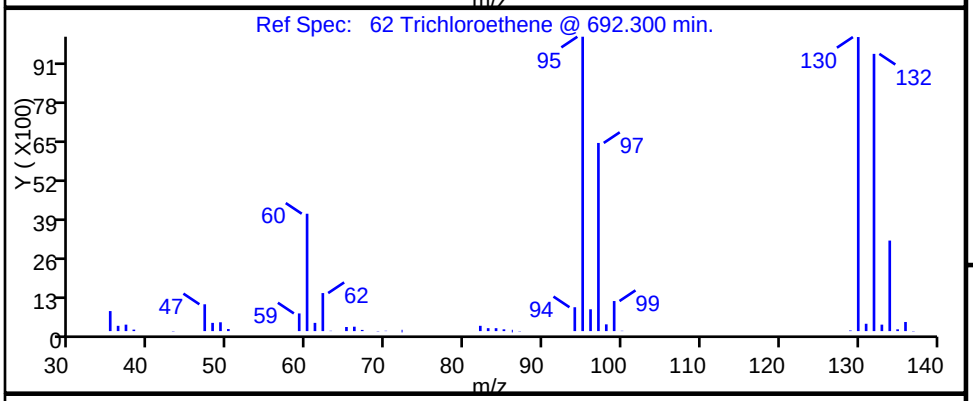
62 Trichloroethene, CAS: 79-01-6

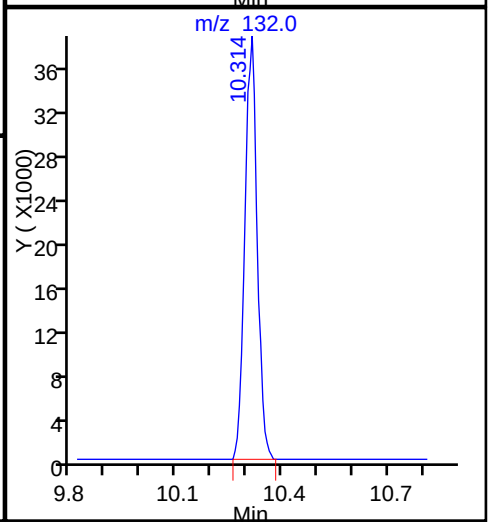


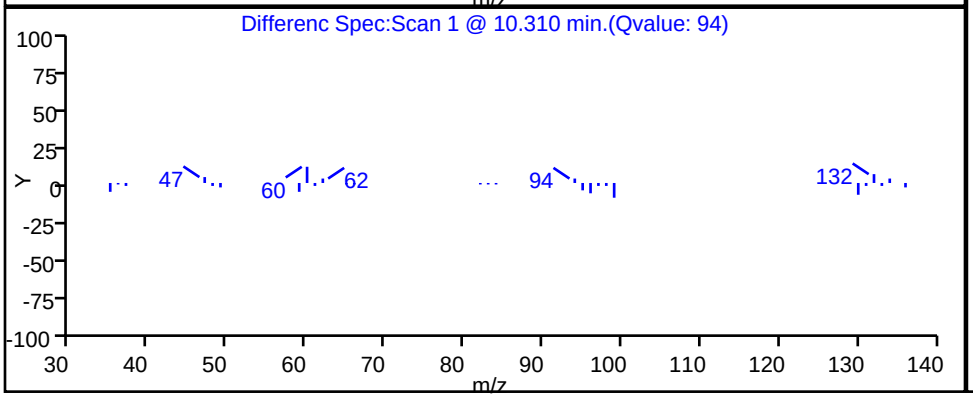












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-9 | Lab Sample ID: 480-102539-2

Matrix: Water | Lab File ID: P7815.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 02:10

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.: 309812 | 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	0.39	J	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	21		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-9 | Lab Sample ID: 480-102539-2

Matrix: Water | Lab File ID: P7815.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 02:10

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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	0.65	J	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)	101		66-137
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		60-140
2037-26-5	Toluene-d8 (Surr)	92		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7815.D
Lims ID: 480-102539-A-2
Client ID: 4009-9
Sample Type: Client
Inject. Date: 06-Jul-2016 02:10:30 ALS Bottle#: 11 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-2
Misc. Info.: 480-0054594-030
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:00:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	107392	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	222585	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	266007	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.048	9.043	0.005	93	158752	25.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.480	9.481	-0.001	0	96841	25.3	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	492358	23.1	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	92	185911	23.0	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63	7.783	7.783	0.000	92	5689	0.3917	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	82	176536	20.8	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	93	8317	0.6605	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.553	9.547	0.006	91	7337	0.2516	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95	10.314	10.302	0.012	91	5141	0.6459	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

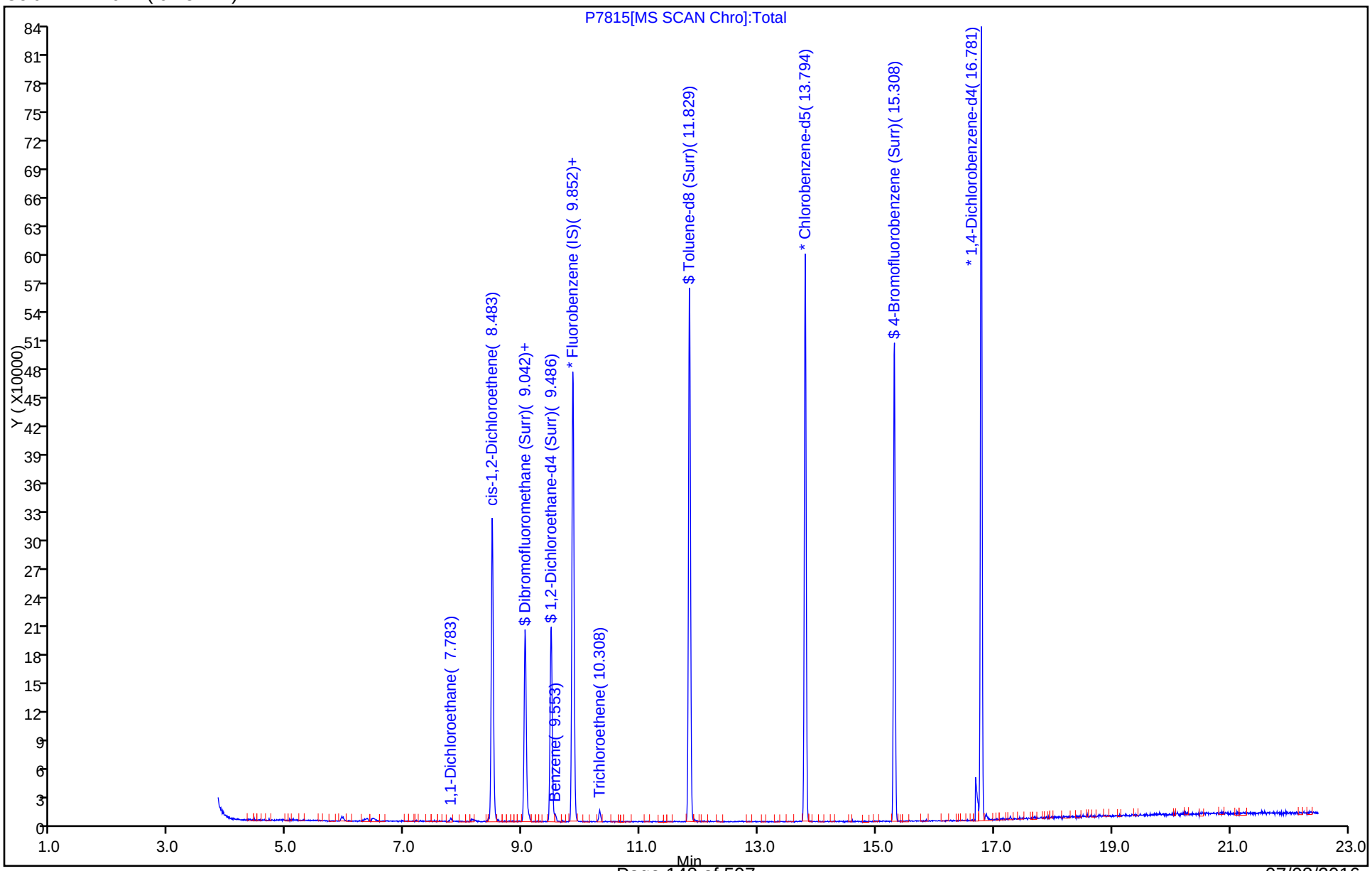
Report Date: 07-Jul-2016 08:00:32 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7815.D

Injection Date:	06-Jul-2016 02:10:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-2	Lab Sample ID:	480-102539-2	Worklist Smp#:	30
Client ID:	4009-9				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

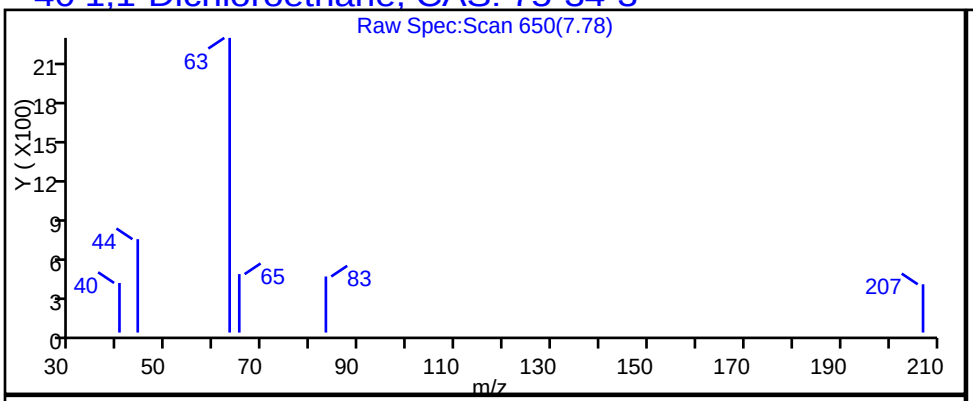


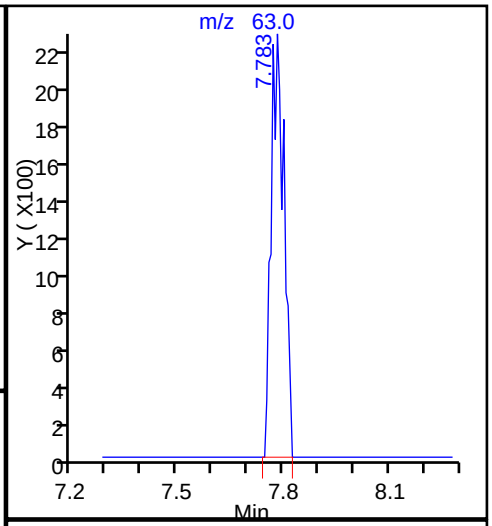
TestAmerica Buffalo

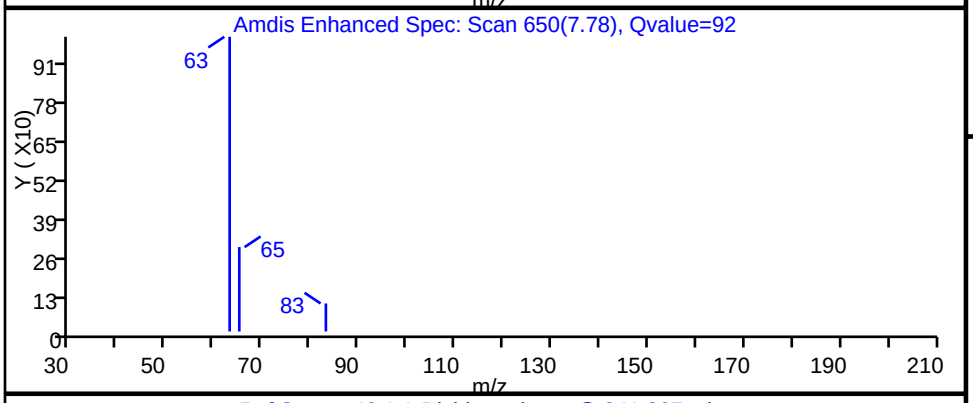
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7815.D

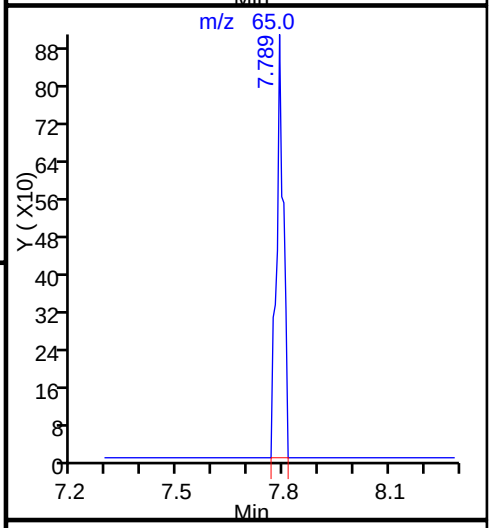
Injection Date:	06-Jul-2016 02:10:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-2	Lab Sample ID:	480-102539-2		
Client ID:	4009-9				
Operator ID:	SY	ALS Bottle#:	11	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

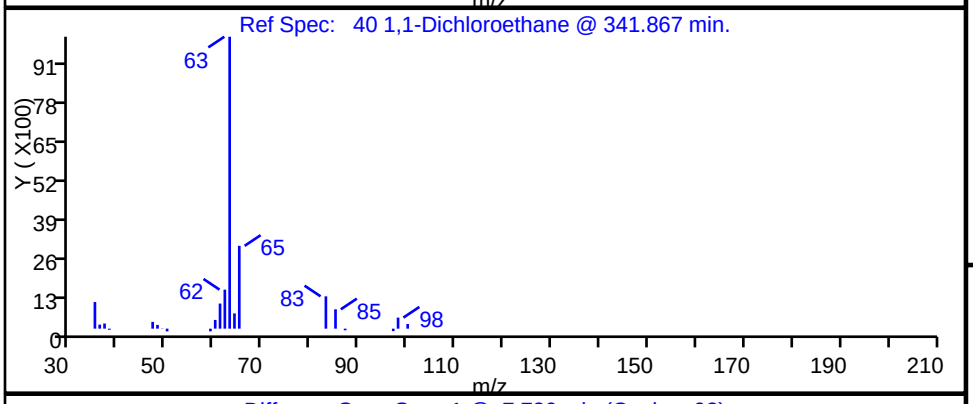
40 1,1-Dichloroethane, CAS: 75-34-3

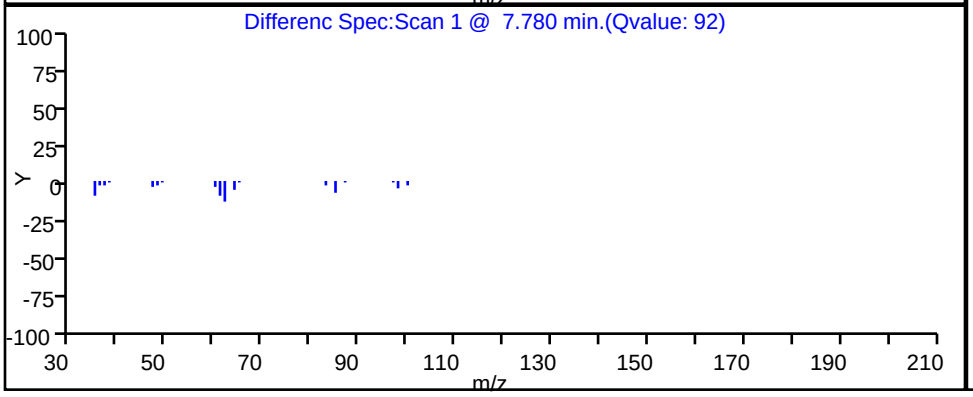


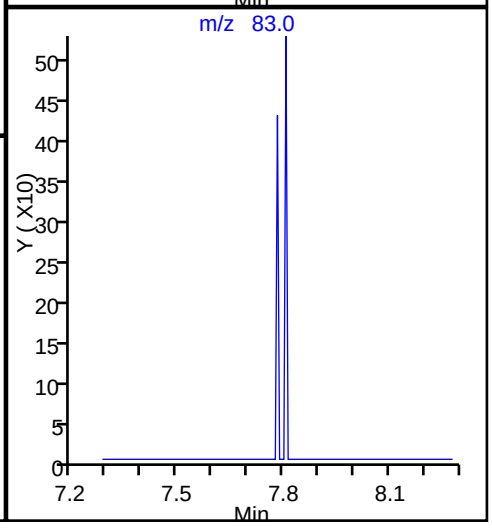








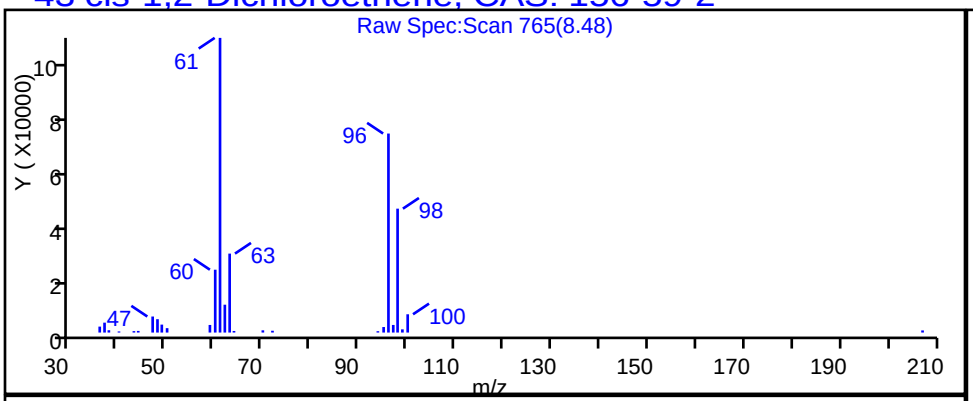


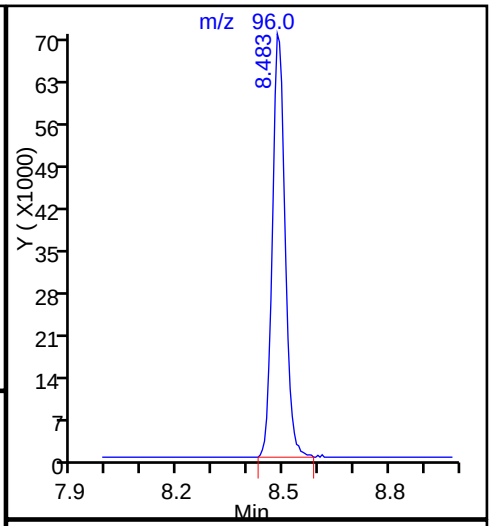


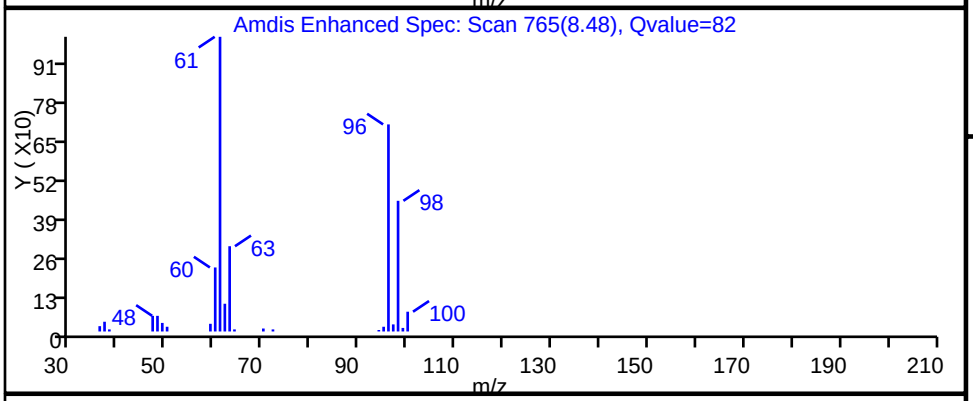
TestAmerica Buffalo

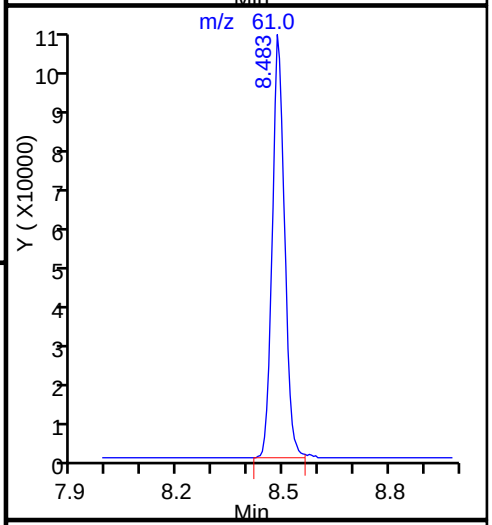
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7815.D				
Injection Date:	06-Jul-2016 02:10:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-2	Lab Sample ID:	480-102539-2		
Client ID:	4009-9				
Operator ID:	SY	ALS Bottle#:	11	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

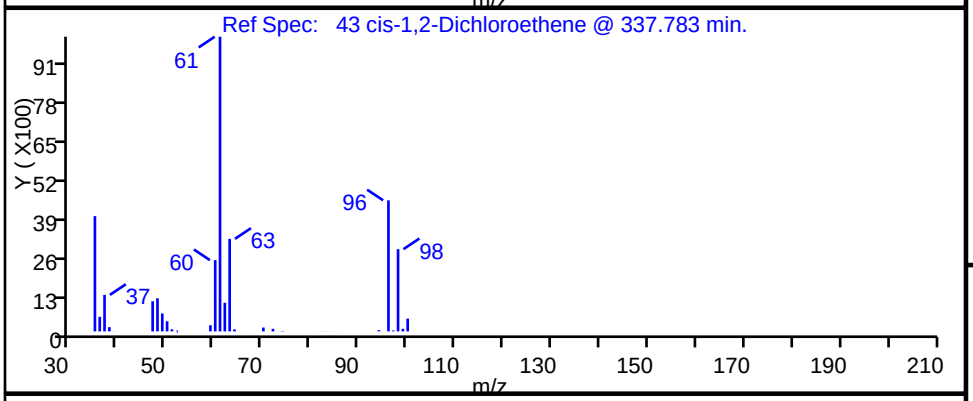
43 cis-1,2-Dichloroethene, CAS: 156-59-2

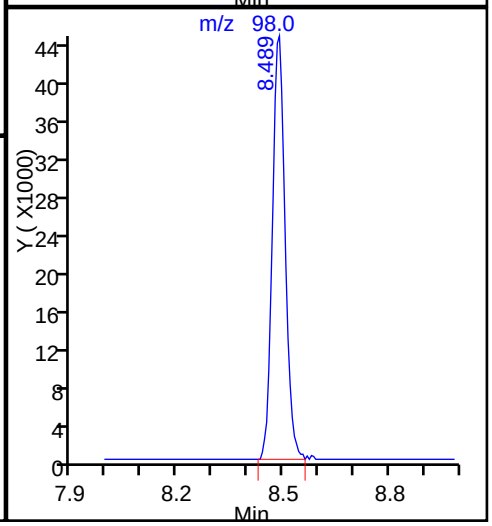


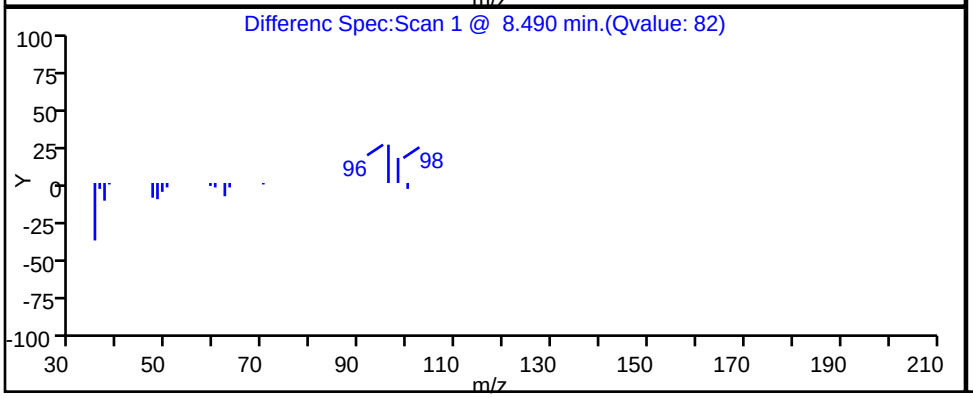










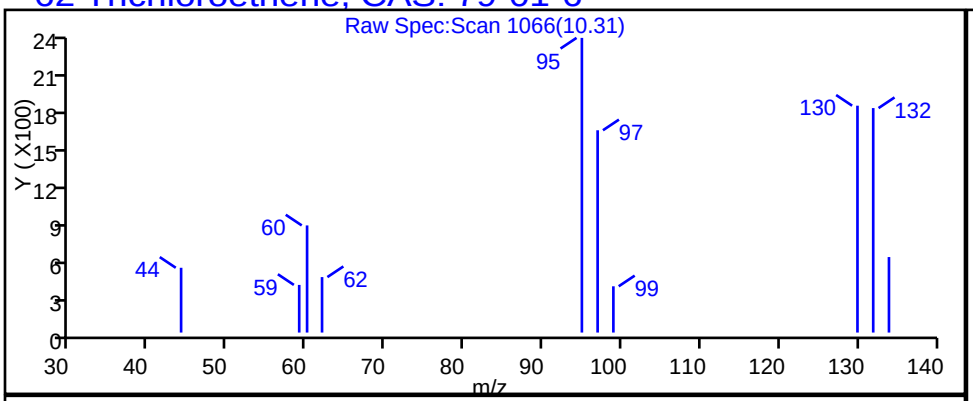


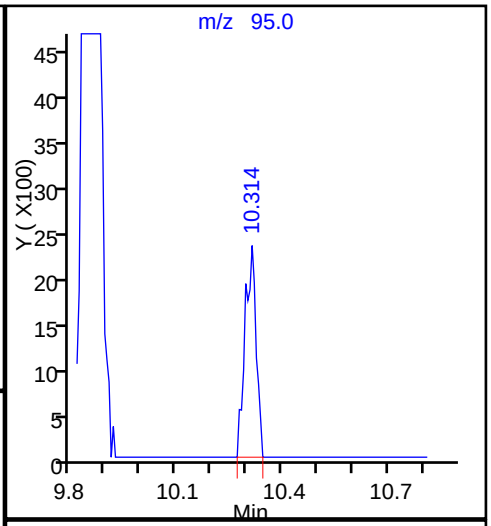
TestAmerica Buffalo

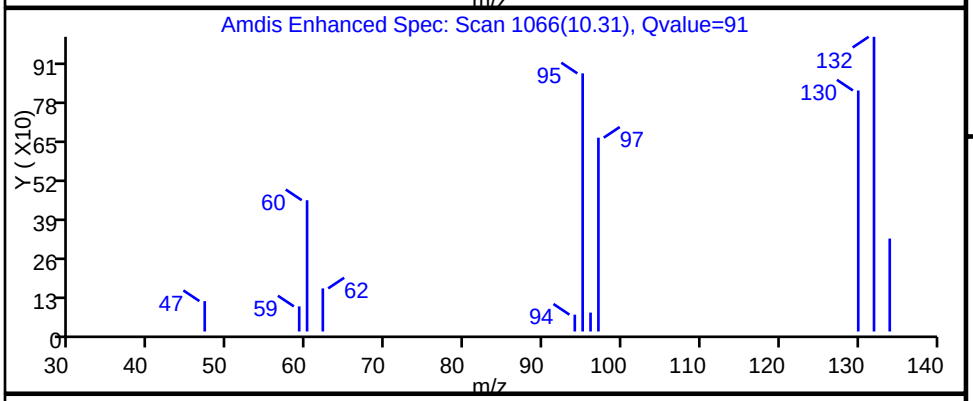
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7815.D

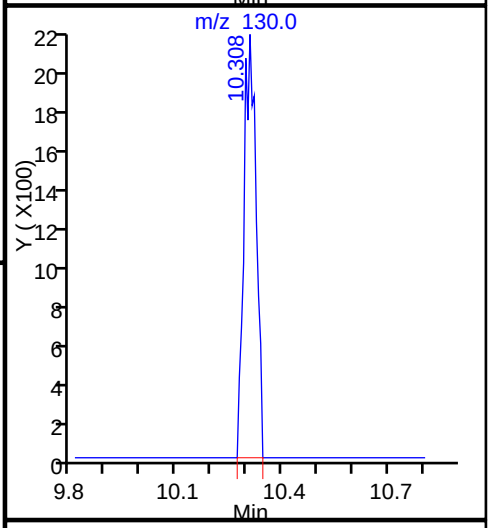
Injection Date:	06-Jul-2016 02:10:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-2	Lab Sample ID:	480-102539-2		
Client ID:	4009-9				
Operator ID:	SY	ALS Bottle#:	11	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

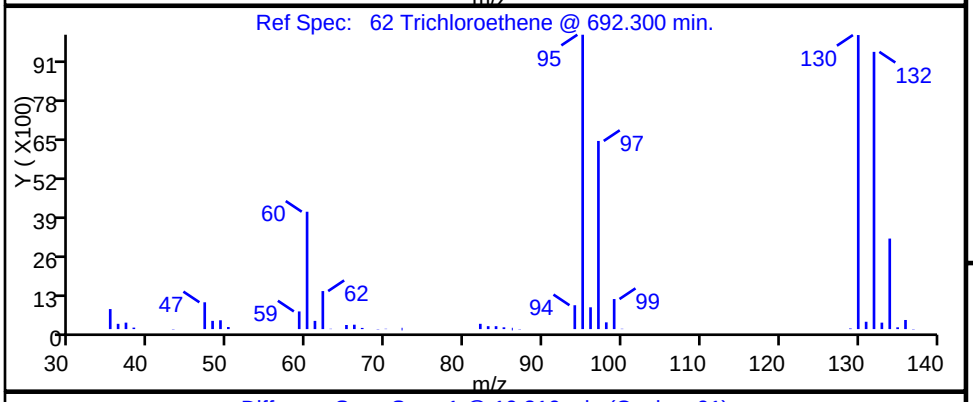
62 Trichloroethene, CAS: 79-01-6

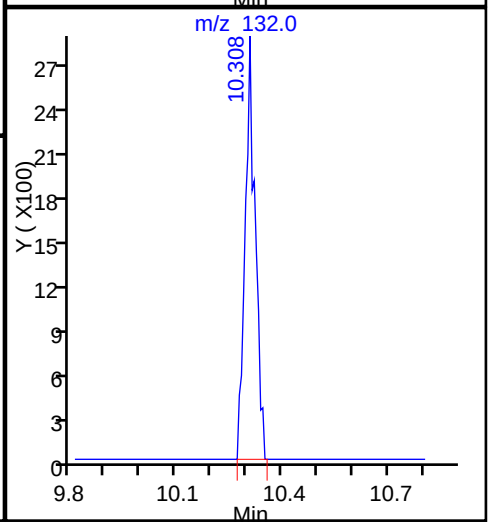


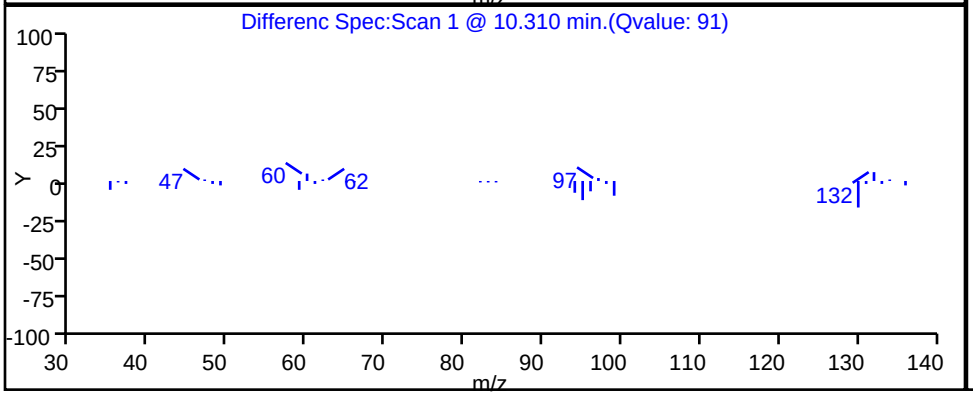












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-10 Lab Sample ID: 480-102539-3

Matrix: Water Lab File ID: P7816.D

Analysis Method: 8260C Date Collected: 06/30/2016 13:40

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2016 02:37

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.: 309812 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	1.9		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-10 | Lab Sample ID: 480-102539-3

Matrix: Water | Lab File ID: P7816.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 02:37

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7816.D
Lims ID: 480-102539-A-3
Client ID: 4009-10
Sample Type: Client
Inject. Date: 06-Jul-2016 02:37:30 ALS Bottle#: 12 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-3
Misc. Info.: 480-0054594-031
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:00:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.857	9.852	0.005	99	104358	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	217522	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	262413	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.048	9.043	0.005	92	154090	25.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.486	9.481	0.005	0	95893	25.8	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	93	488786	23.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	93	182576	23.1	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	79	2474	0.2995	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	9	3893	0.3181	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.559	9.547	0.012	96	53738	1.90	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

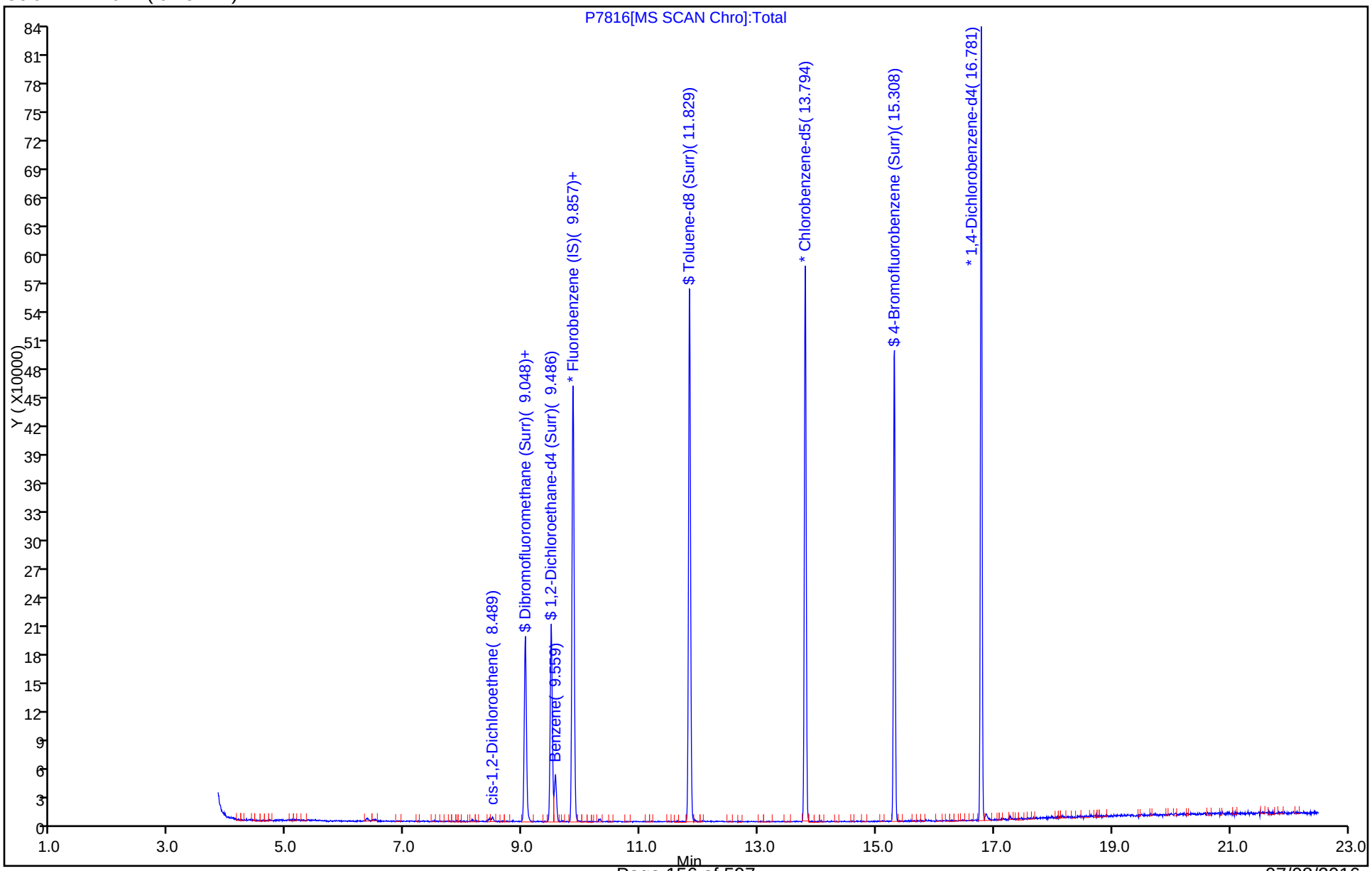
Report Date: 07-Jul-2016 08:00:37 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7816.D

Injection Date:	06-Jul-2016 02:37:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-3	Lab Sample ID:	480-102539-3	Worklist Smp#:	31
Client ID:	4009-10				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

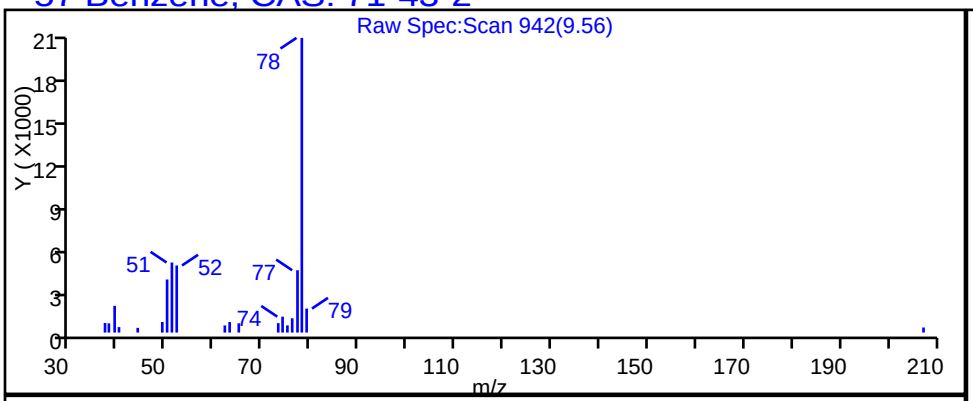
Column: ZB-624 (0.25 mm)

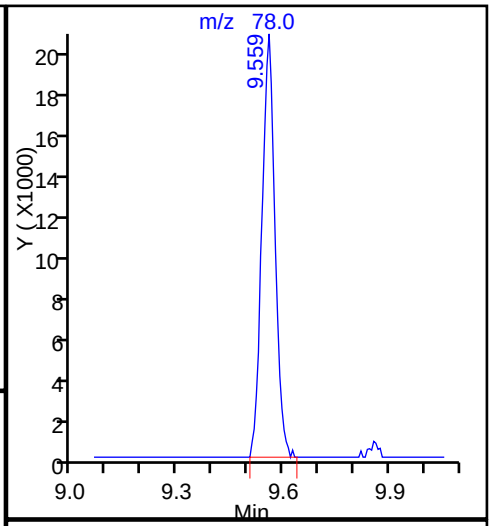


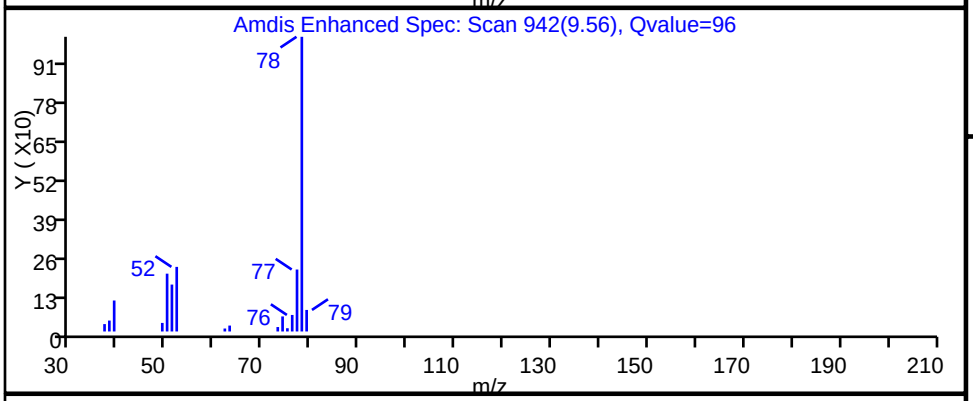
TestAmerica Buffalo

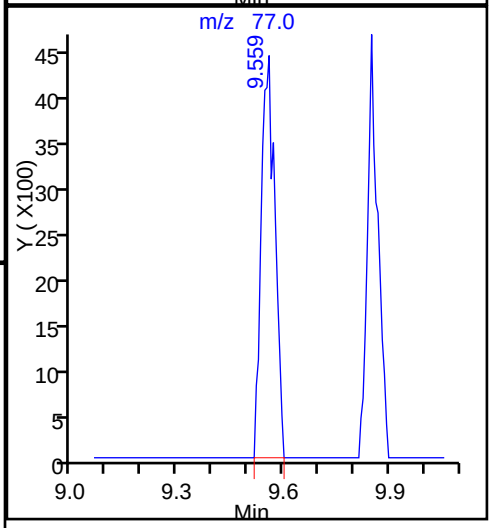
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7816.D				
Injection Date:	06-Jul-2016 02:37:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-3	Lab Sample ID:	480-102539-3		
Client ID:	4009-10				
Operator ID:	SY	ALS Bottle#:	12	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

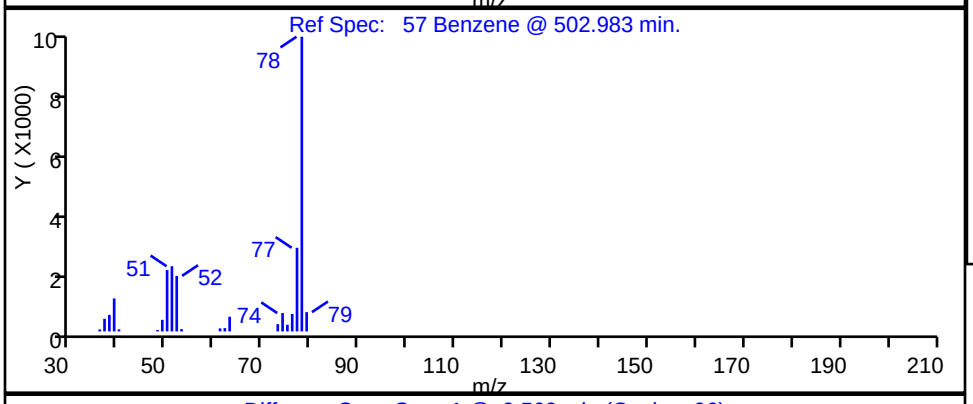
57 Benzene, CAS: 71-43-2

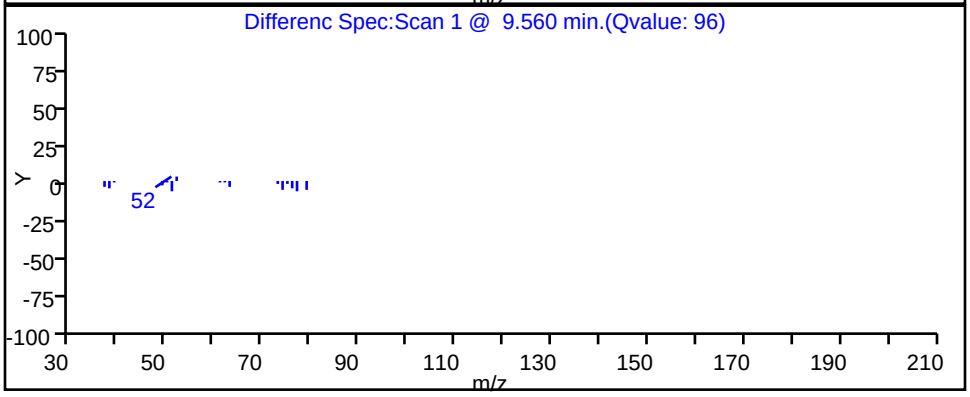












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-11 | Lab Sample ID: 480-102539-4

Matrix: Water | Lab File ID: P7817.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:57

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 03:04

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	57		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	0.74	J	1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	13		1.0	0.38
75-35-4	1,1-Dichloroethene	3.4		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	1.2		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	8.8		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-11 | Lab Sample ID: 480-102539-4

Matrix: Water | Lab File ID: P7817.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:57

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 03:04

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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	14		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)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7817.D
Lims ID: 480-102539-A-4
Client ID: 4009-11
Sample Type: Client
Inject. Date: 06-Jul-2016 03:04:30 ALS Bottle#: 13 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-4
Misc. Info.: 480-0054594-032
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:00:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.851	9.852	-0.001	98	105261	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	216241	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	255287	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.048	9.043	0.005	93	156160	25.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.486	9.481	0.005	0	96240	25.7	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	93	484211	23.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	92	176267	22.4	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62	4.534	4.553	-0.019	98	85562	14.3	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64	5.228	5.228	0.000	97	5276	1.16	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101	6.274	6.274	0.000	71	5810	0.7397	
25 1,1-Dichloroethene	96	6.317	6.311	0.006	96	23454	3.37	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63	7.789	7.783	0.006	97	183763	12.9	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	82	72919	8.75	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	98	708515	57.4	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.547				ND	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95	10.308	10.302	0.006	27	1414	0.1813	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

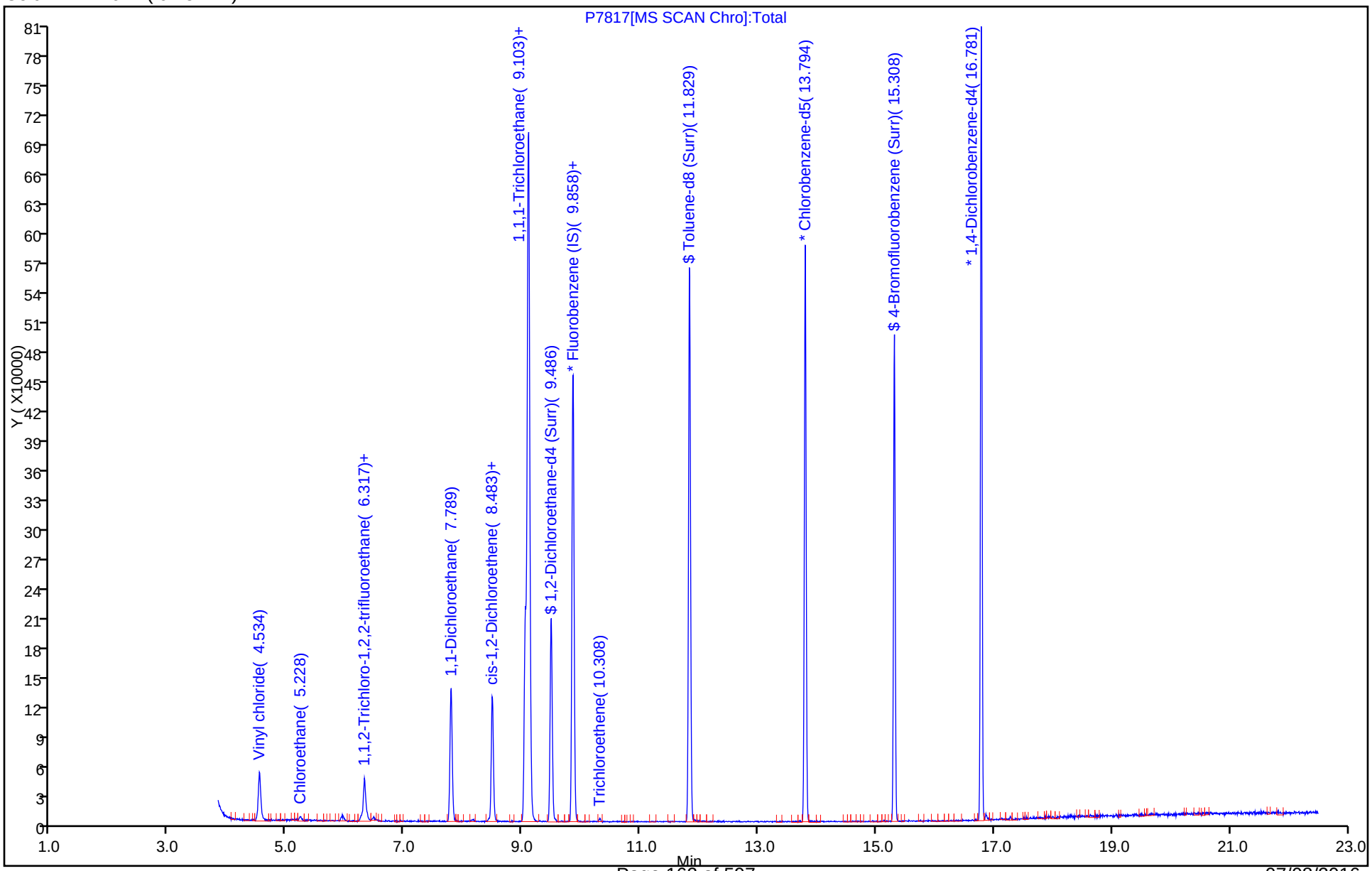
Report Date: 07-Jul-2016 08:00:43 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7817.D

Injection Date:	06-Jul-2016 03:04:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-4	Lab Sample ID:	480-102539-4	Worklist Smp#:	32
Client ID:	4009-11				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

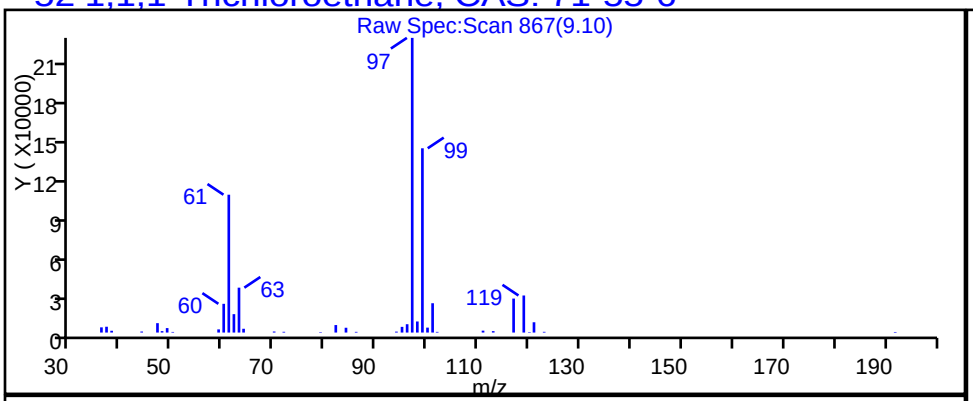
Column: ZB-624 (0.25 mm)

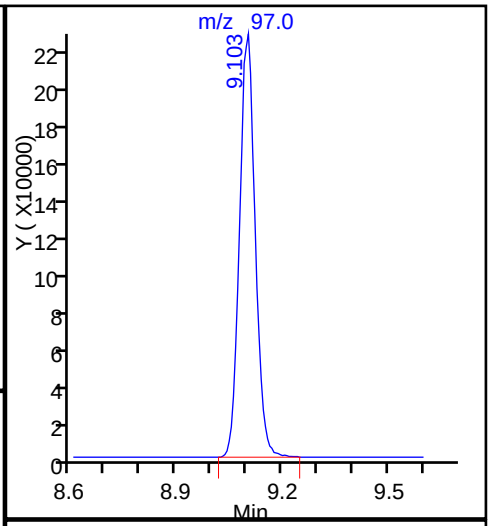


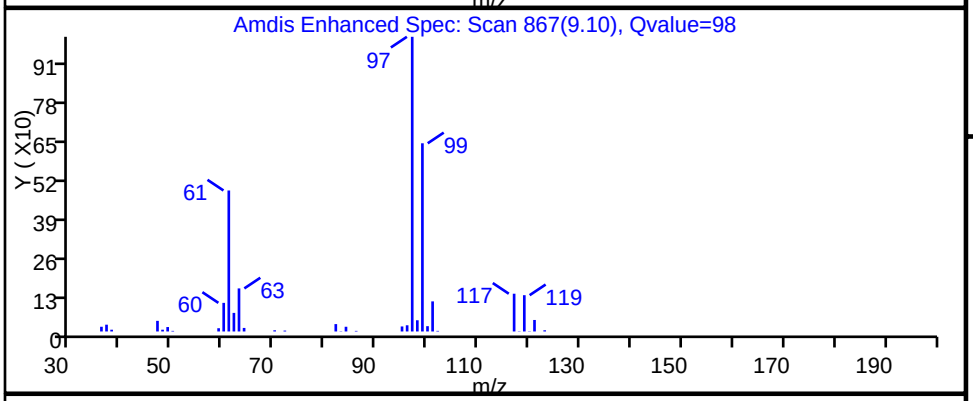
TestAmerica Buffalo

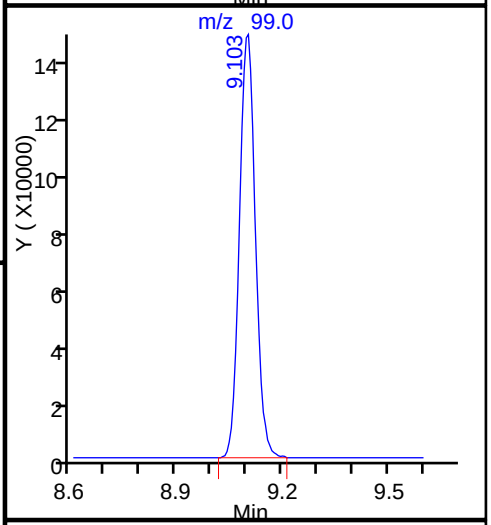
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7817.D				
Injection Date:	06-Jul-2016 03:04:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-4	Lab Sample ID:	480-102539-4		
Client ID:	4009-11				
Operator ID:	SY	ALS Bottle#:	13	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

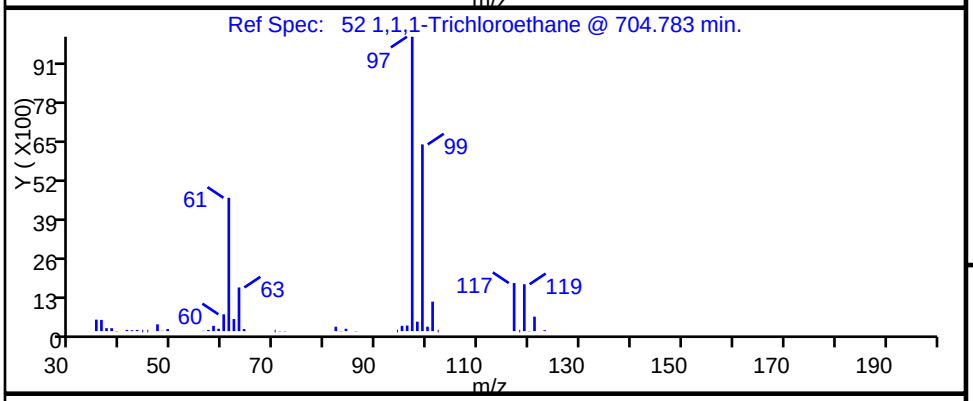
52 1,1,1-Trichloroethane, CAS: 71-55-6

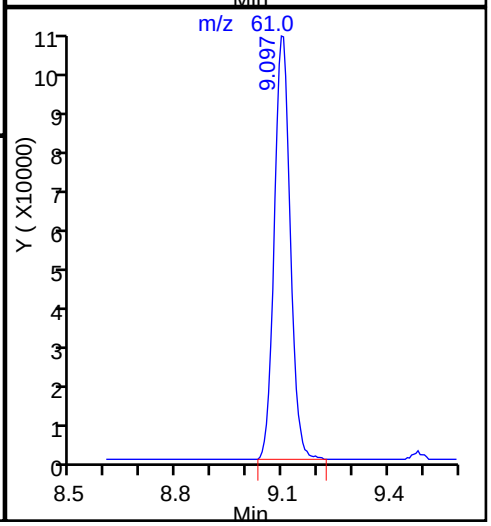


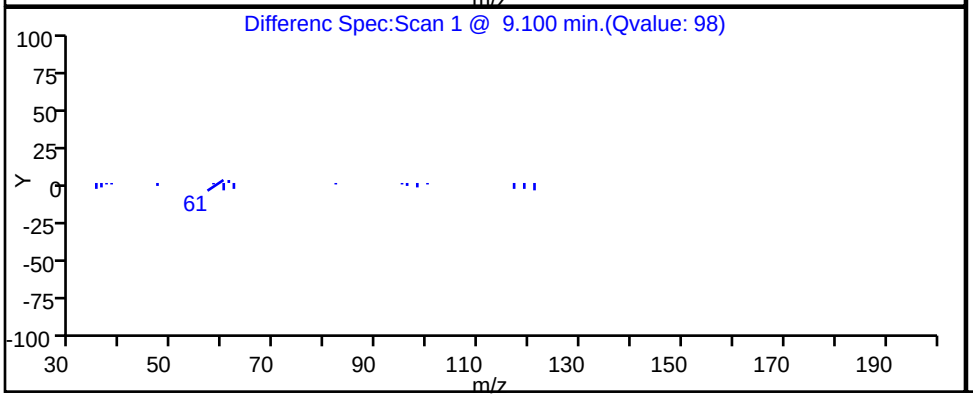










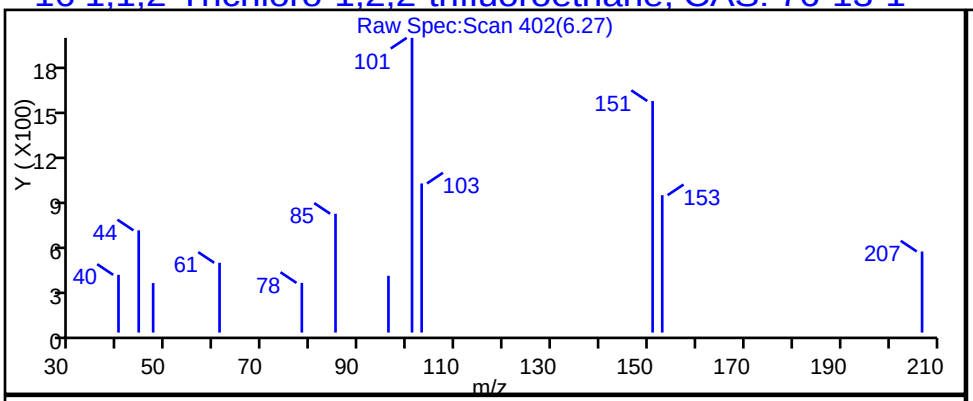


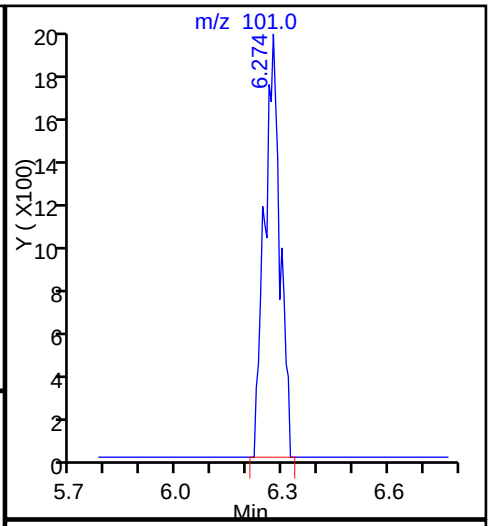
TestAmerica Buffalo

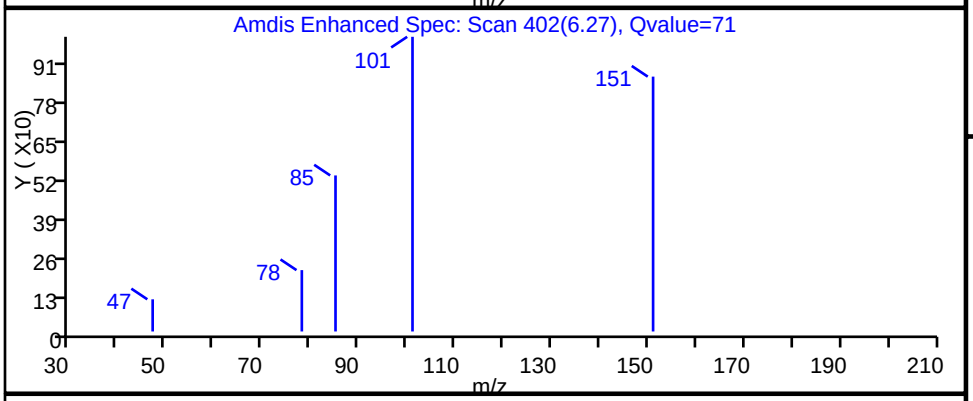
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7817.D

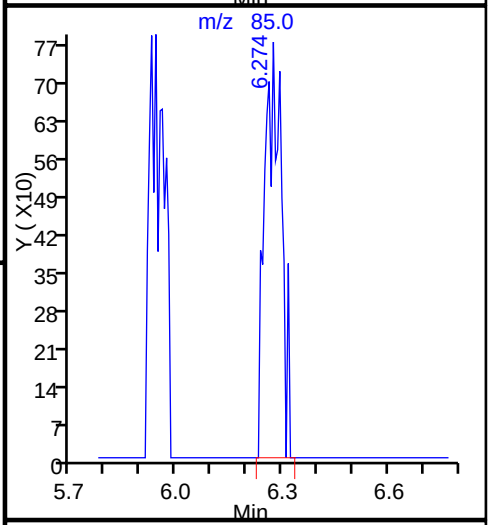
Injection Date:	06-Jul-2016 03:04:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-4	Lab Sample ID:	480-102539-4		
Client ID:	4009-11				
Operator ID:	SY	ALS Bottle#:	13	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

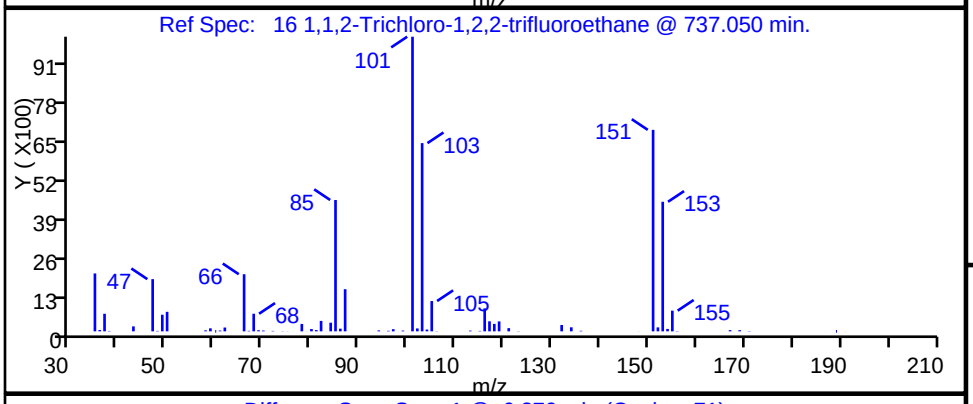
16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

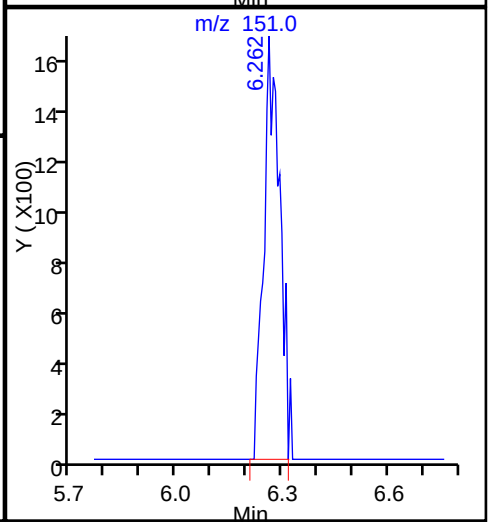


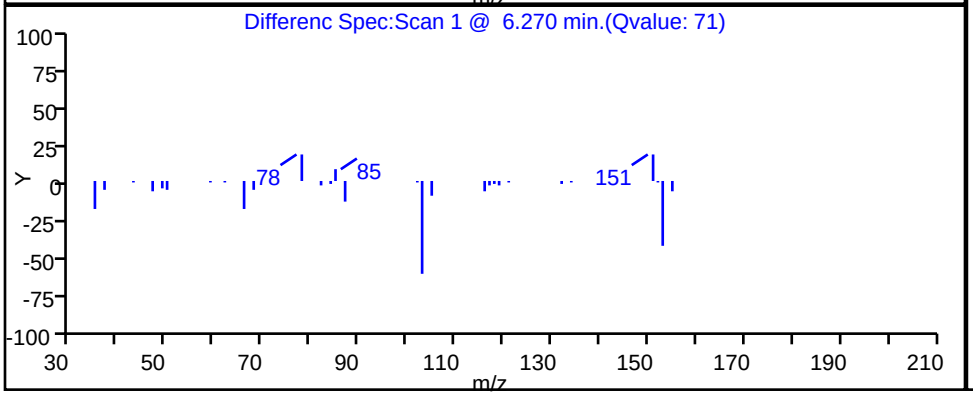










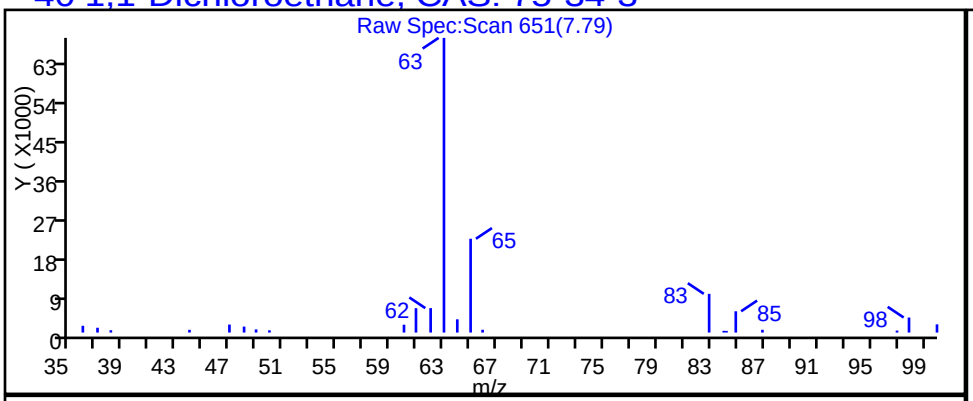


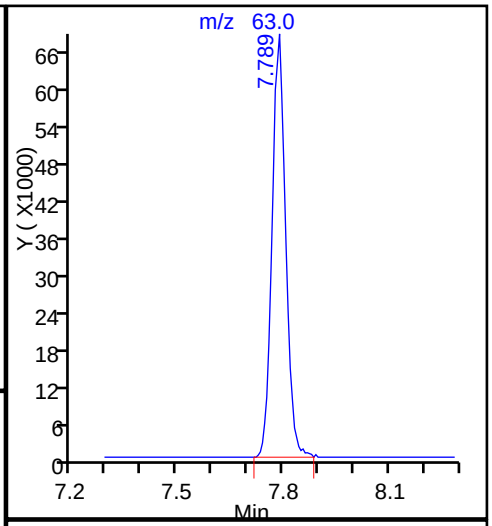
TestAmerica Buffalo

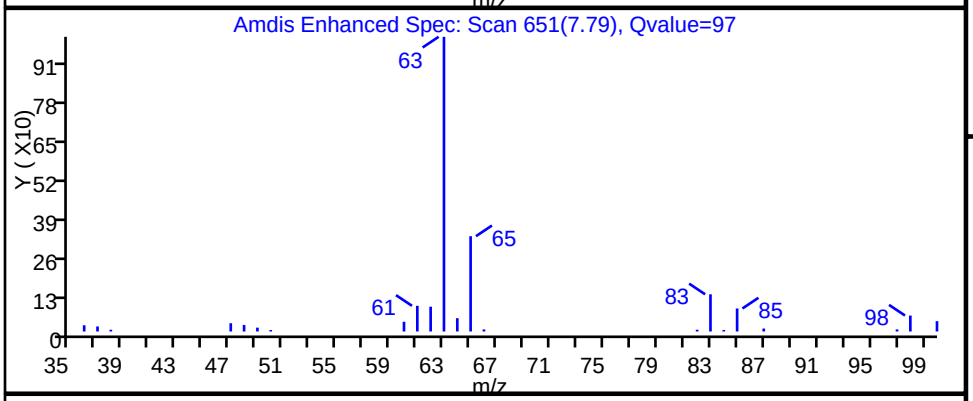
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7817.D

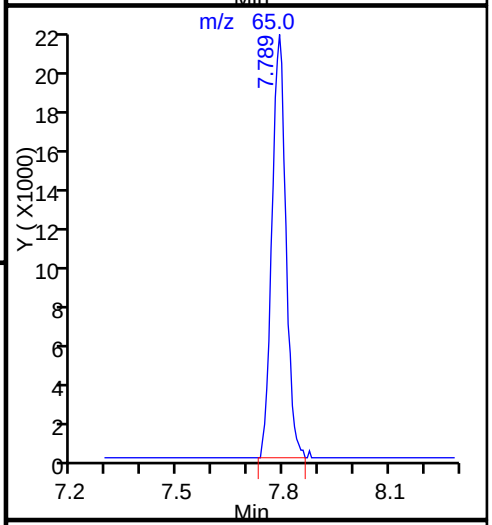
Injection Date:	06-Jul-2016 03:04:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-4	Lab Sample ID:	480-102539-4		
Client ID:	4009-11				
Operator ID:	SY	ALS Bottle#:	13	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

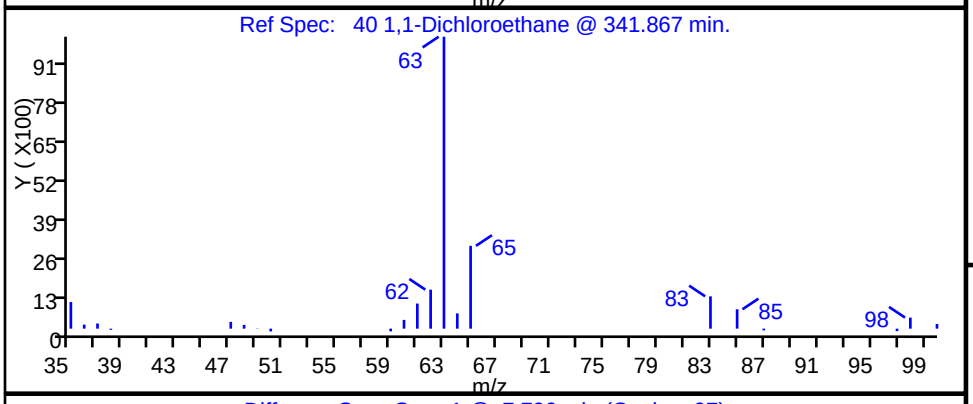
40 1,1-Dichloroethane, CAS: 75-34-3

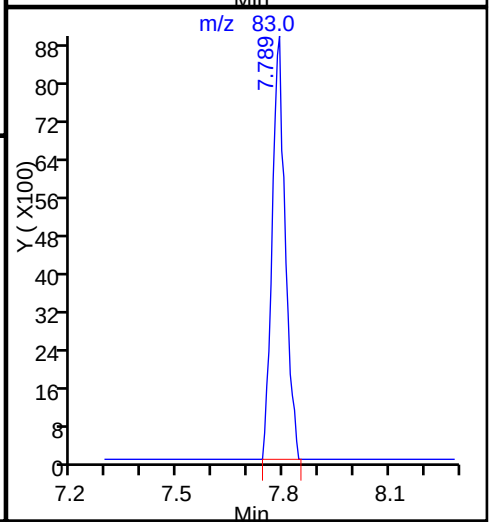


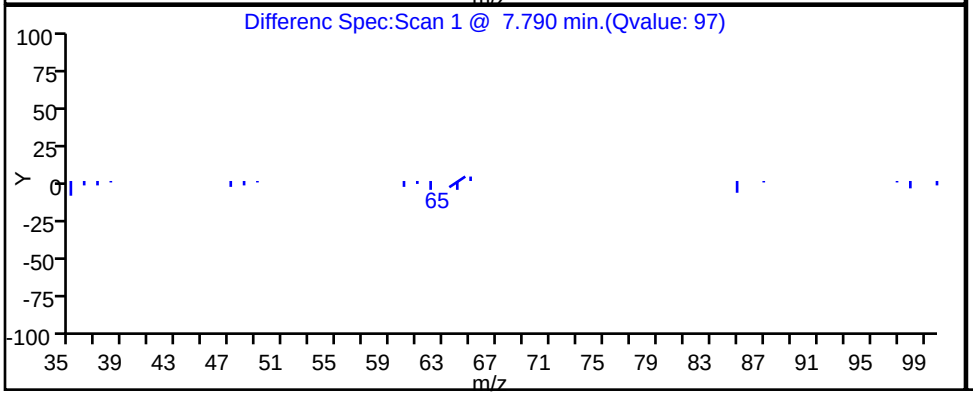












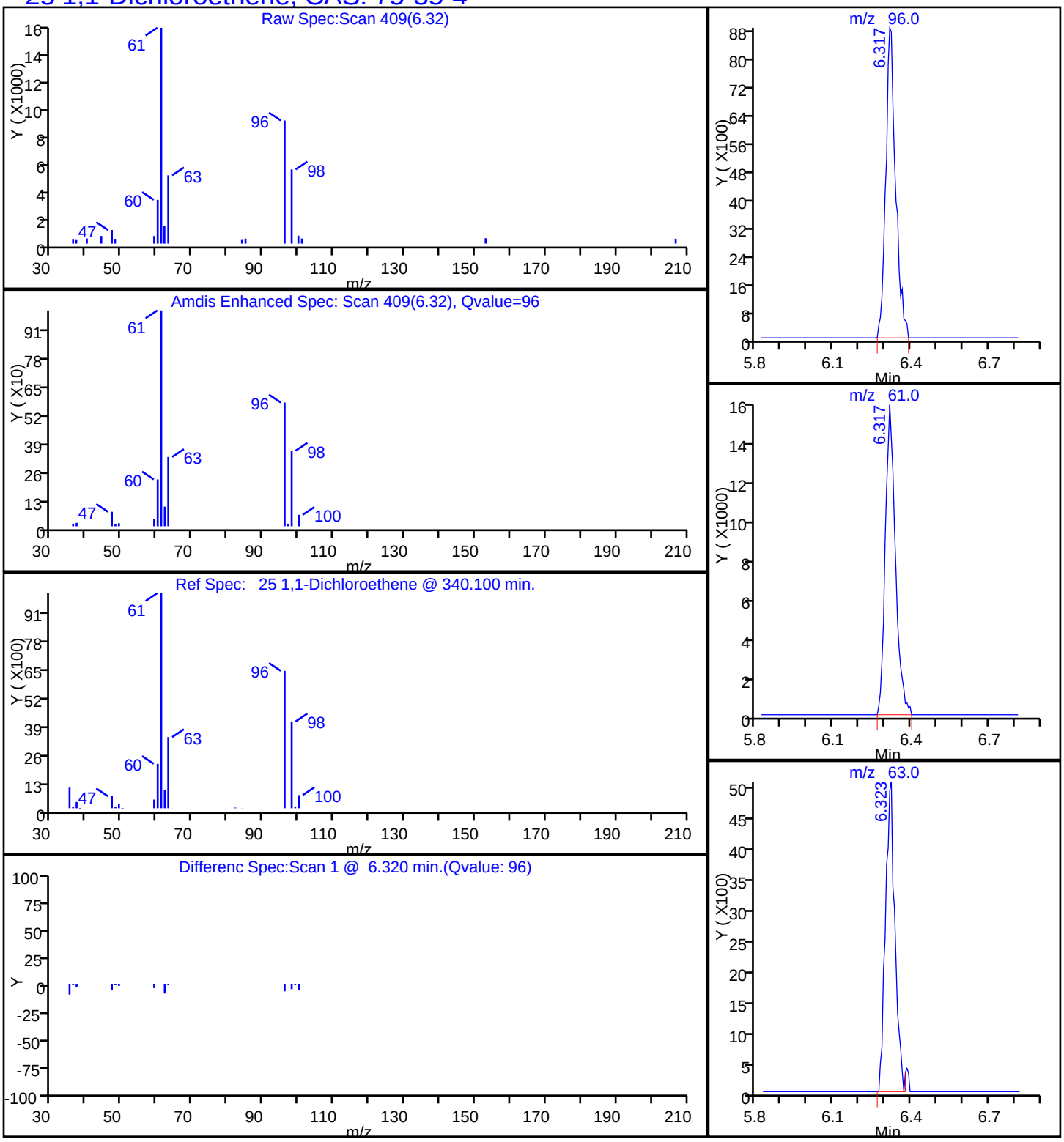
Report Date: 07-Jul-2016 08:00:44 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7817.D

Injection Date:	06-Jul-2016 03:04:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-4	Lab Sample ID:	480-102539-4		
Client ID:	4009-11				
Operator ID:	SY	ALS Bottle#:	13	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

25 1,1-Dichloroethene, CAS: 75-35-4

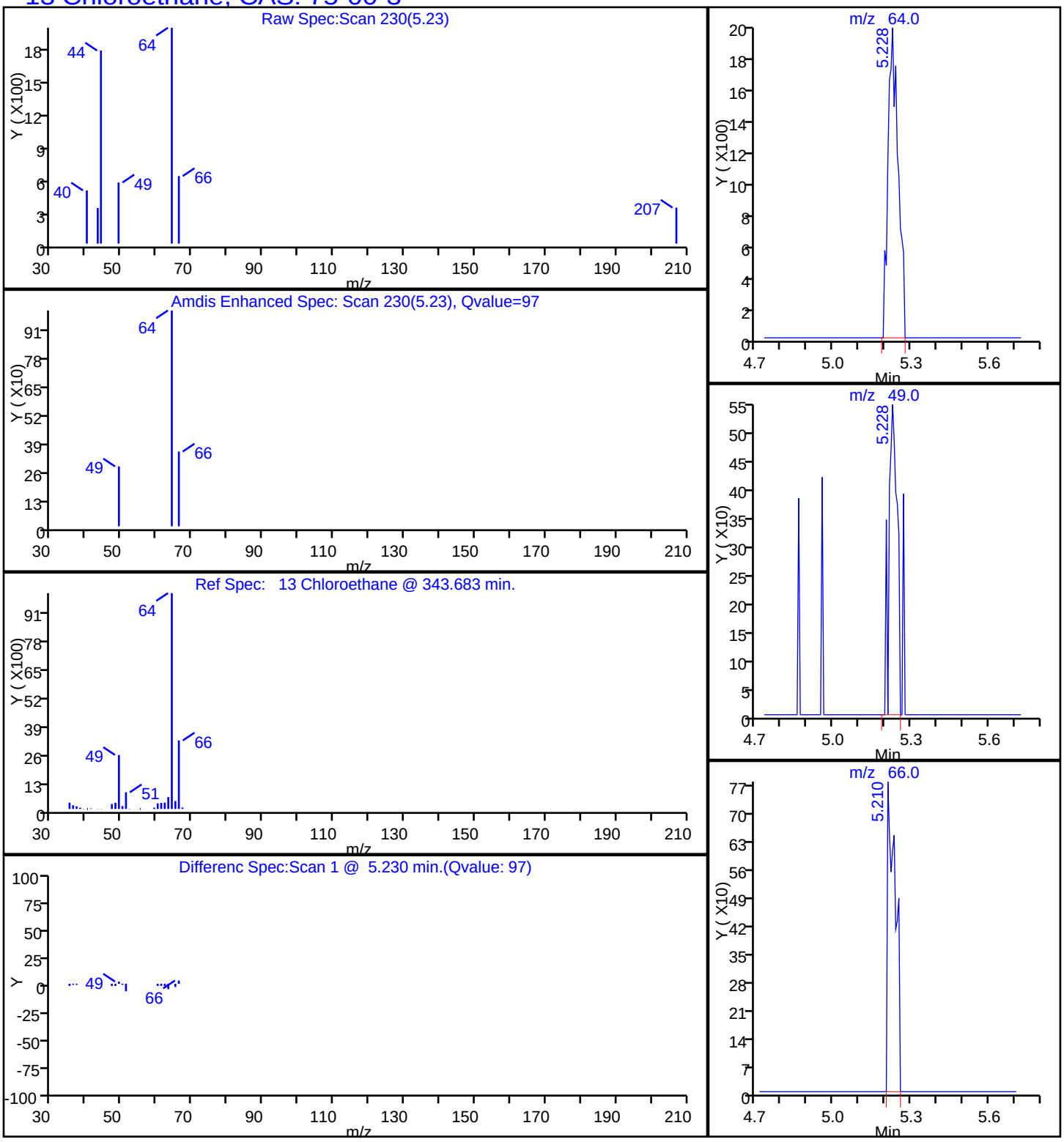


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7817.D

Injection Date:	06-Jul-2016 03:04:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-4	Lab Sample ID:	480-102539-4		
Client ID:	4009-11				
Operator ID:	SY	ALS Bottle#:	13	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

13 Chloroethane, CAS: 75-00-3



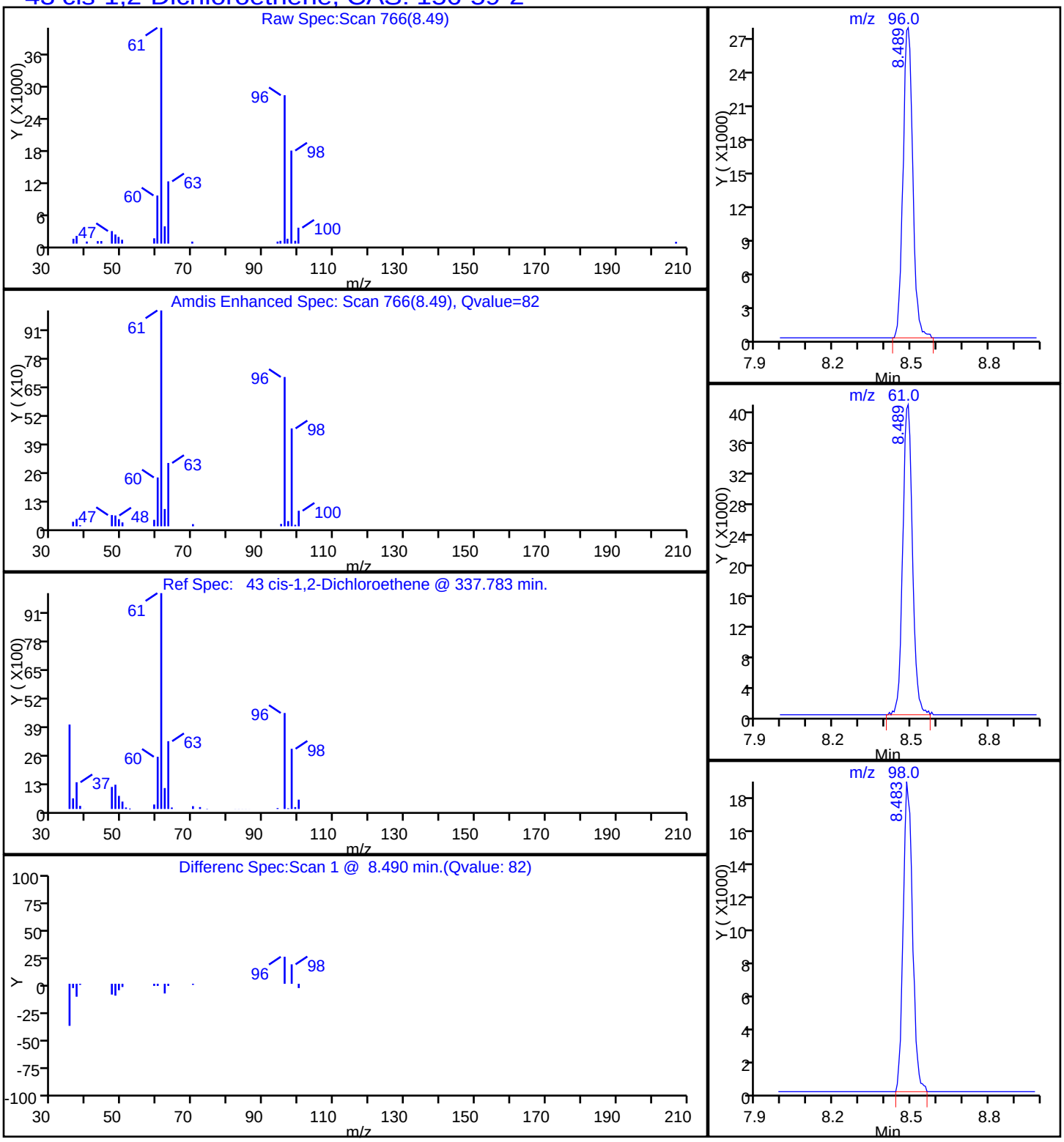
Report Date: 07-Jul-2016 08:00:44 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7817.D

Injection Date:	06-Jul-2016 03:04:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-4	Lab Sample ID:	480-102539-4		
Client ID:	4009-11				
Operator ID:	SY	ALS Bottle#:	13	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2

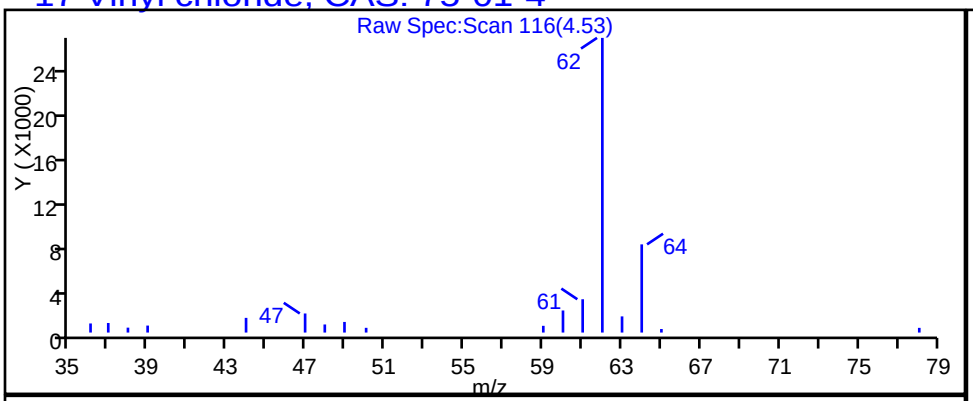


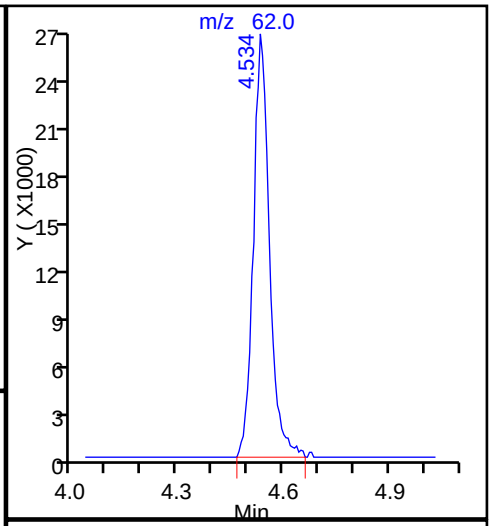
TestAmerica Buffalo

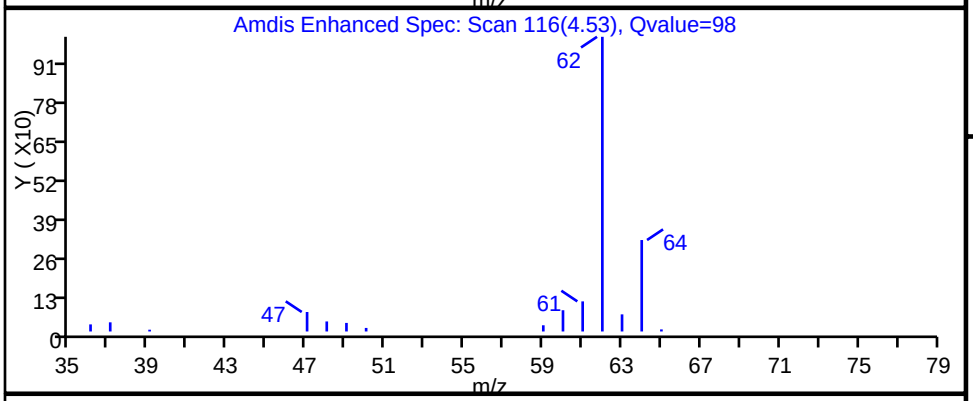
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7817.D

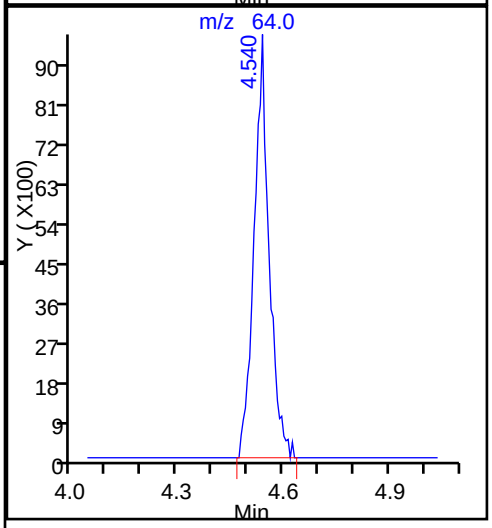
Injection Date:	06-Jul-2016 03:04:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-4	Lab Sample ID:	480-102539-4		
Client ID:	4009-11				
Operator ID:	SY	ALS Bottle#:	13	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

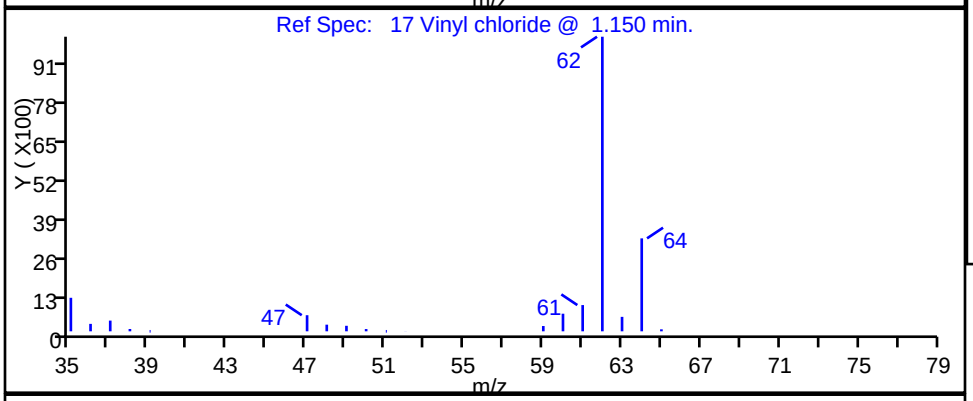
17 Vinyl chloride, CAS: 75-01-4

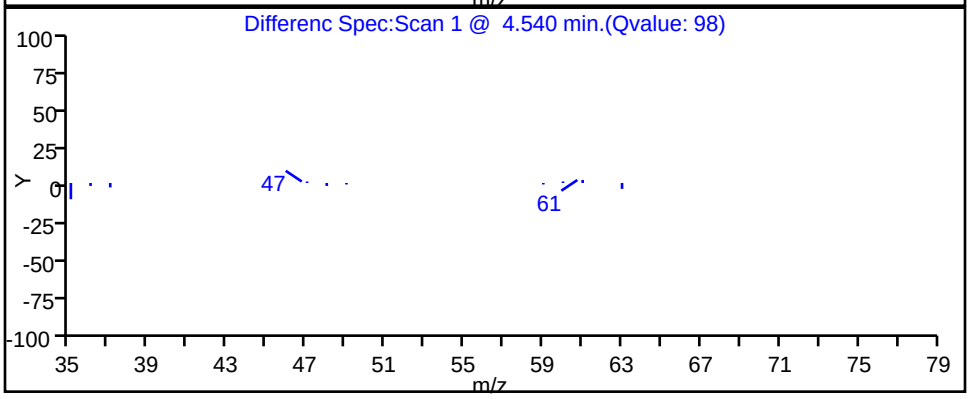












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-12 | Lab Sample ID: 480-102539-5

Matrix: Water | Lab File ID: P7818.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 03:31

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.: 309812 | 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	2.9		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	7.5		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	1.1		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-12 | Lab Sample ID: 480-102539-5

Matrix: Water | Lab File ID: P7818.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 03:31

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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	0.81	J	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.4		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)	100		66-137
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7818.D
Lims ID: 480-102539-A-5
Client ID: 4009-12
Sample Type: Client
Inject. Date: 06-Jul-2016 03:31:30 ALS Bottle#: 14 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-5
Misc. Info.: 480-0054594-033
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:00:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.852	9.852	0.000	98	107543	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	212146	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	255210	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.043	0.006	93	157242	25.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	96103	25.1	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	485666	23.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	92	178975	23.2	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62	4.523	4.553	-0.030	48	8269	1.35	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63	7.789	7.783	0.006	96	42615	2.93	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	82	9374	1.10	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.104	9.097	0.007	94	8415	0.6673	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.560	9.547	0.013	98	219842	7.53	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95	10.302	10.302	0.000	93	6422	0.8058	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

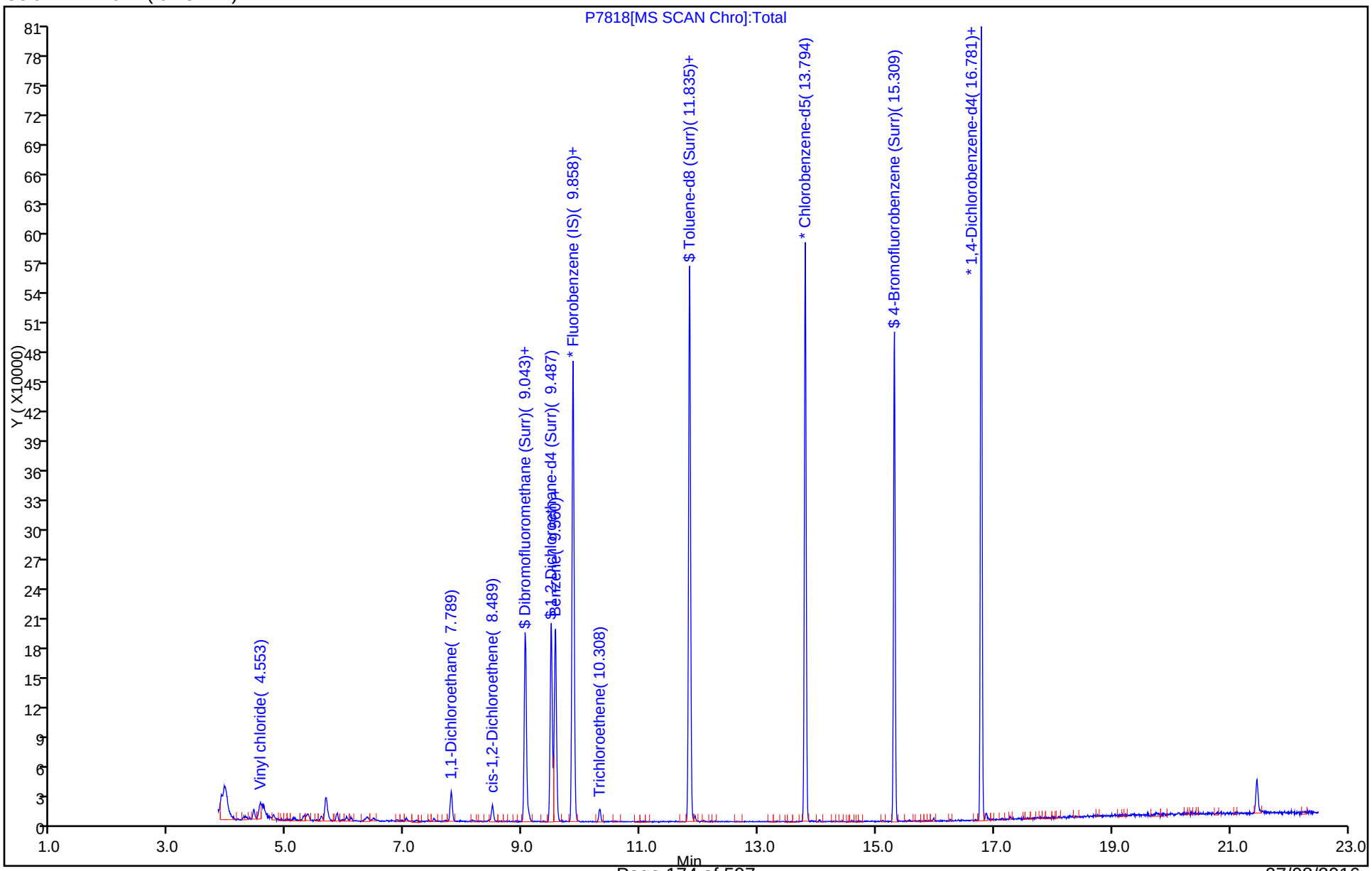
Report Date: 07-Jul-2016 08:00:51 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7818.D

Injection Date:	06-Jul-2016 03:31:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-5	Lab Sample ID:	480-102539-5	Worklist Smp#:	33
Client ID:	4009-12				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

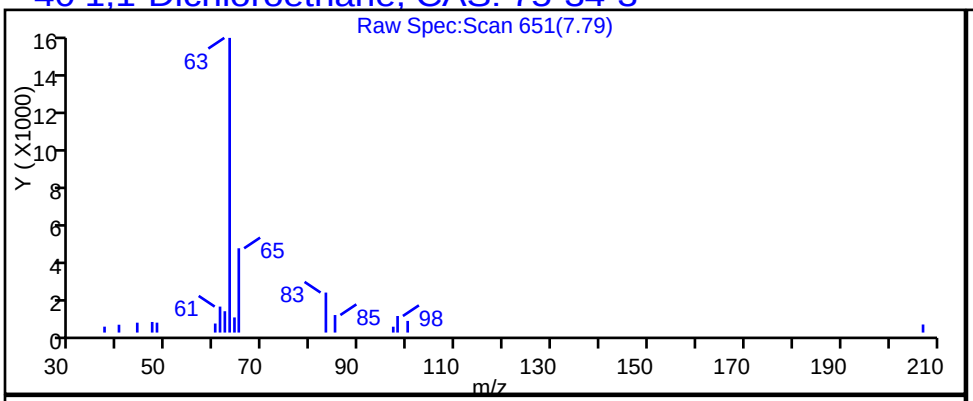


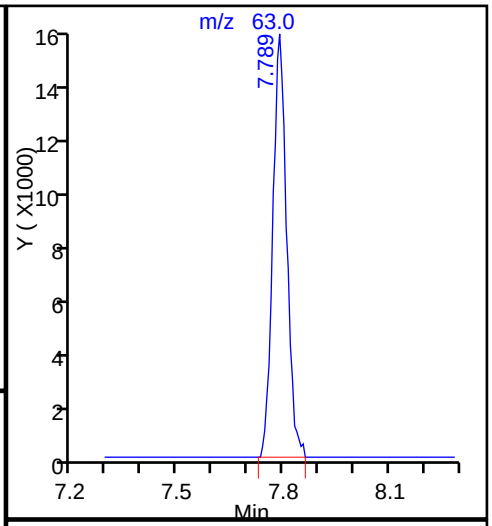
TestAmerica Buffalo

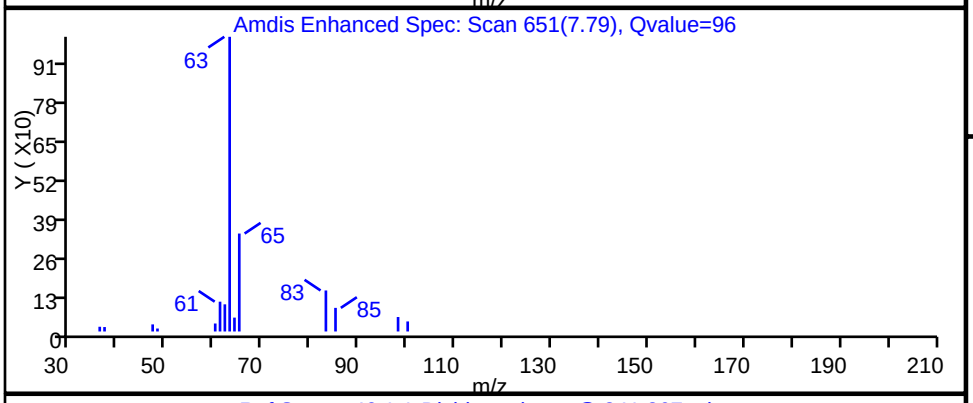
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7818.D

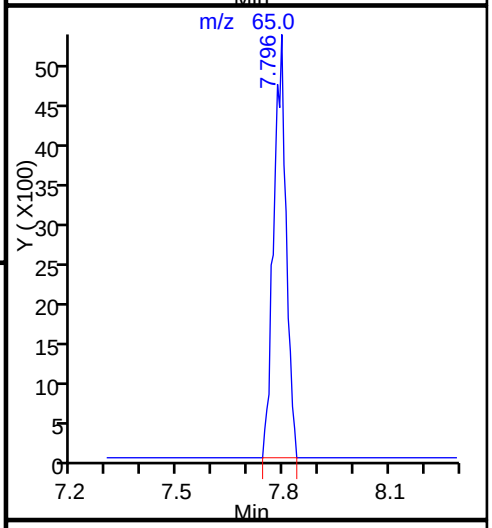
Injection Date:	06-Jul-2016 03:31:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-5	Lab Sample ID:	480-102539-5		
Client ID:	4009-12				
Operator ID:	SY	ALS Bottle#:	14	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

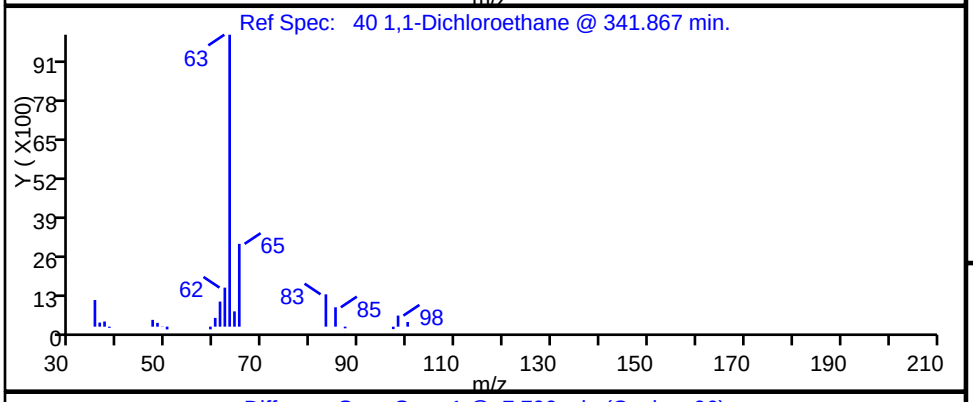
40 1,1-Dichloroethane, CAS: 75-34-3

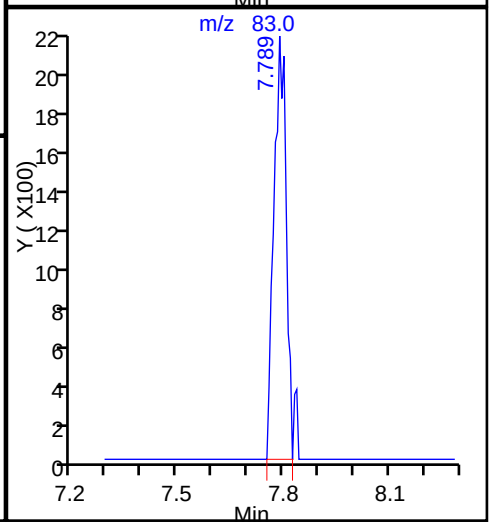


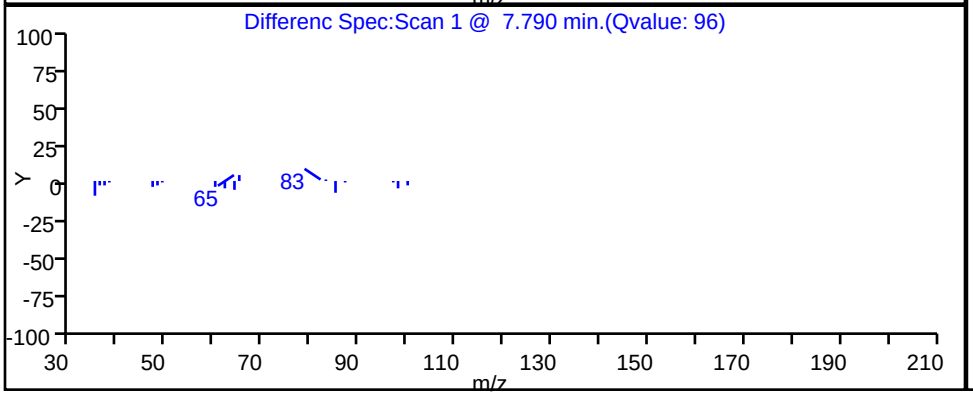








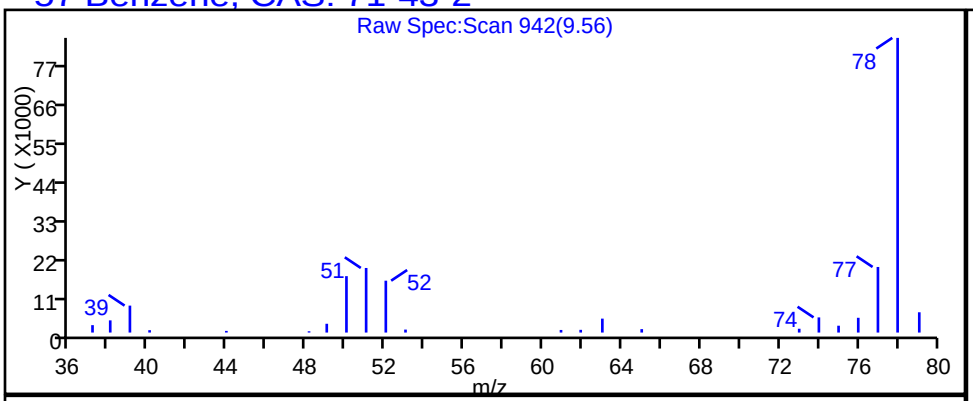


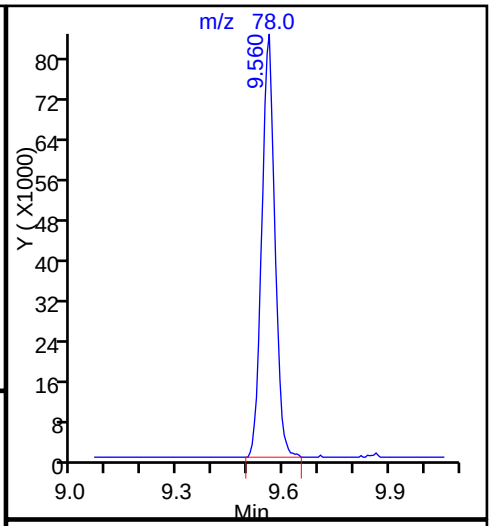


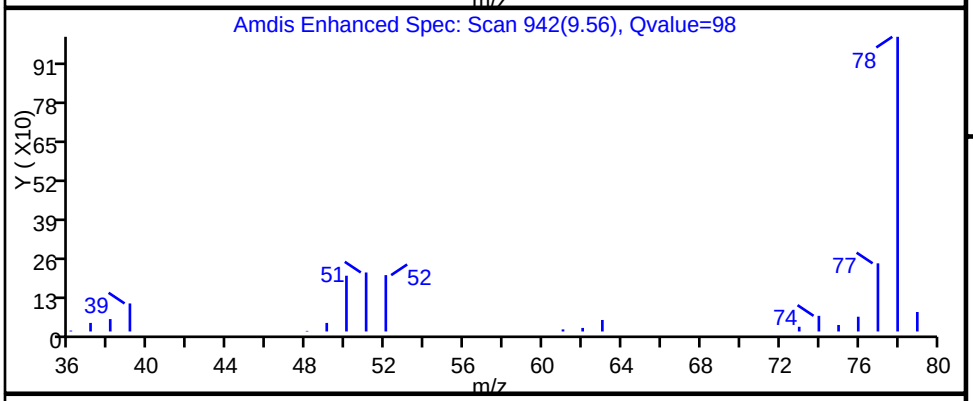
TestAmerica Buffalo

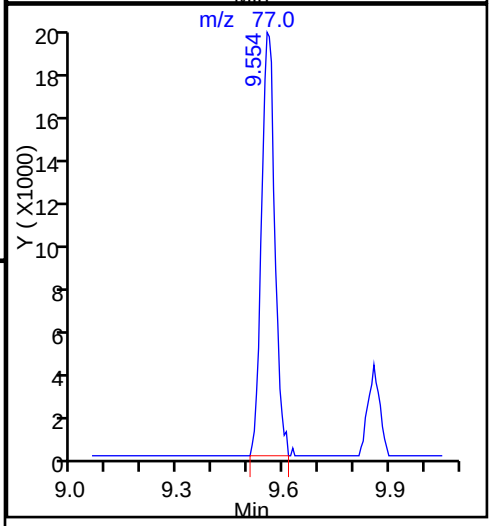
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7818.D				
Injection Date:	06-Jul-2016 03:31:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-5	Lab Sample ID:	480-102539-5		
Client ID:	4009-12				
Operator ID:	SY	ALS Bottle#:	14	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

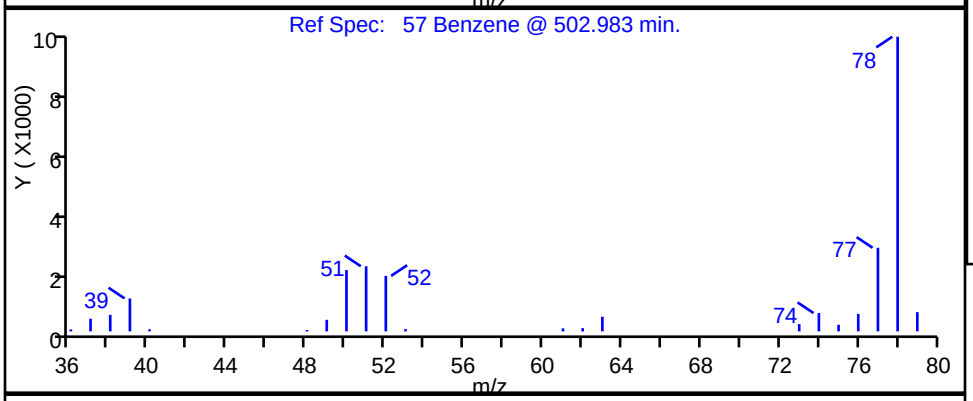
57 Benzene, CAS: 71-43-2

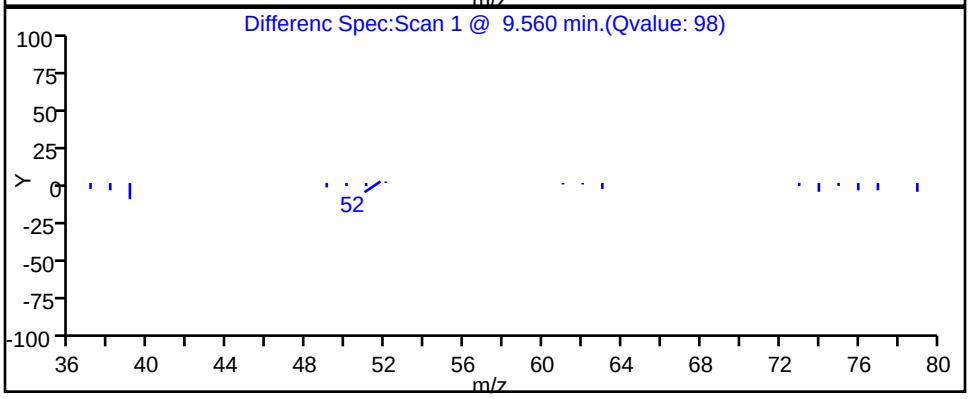








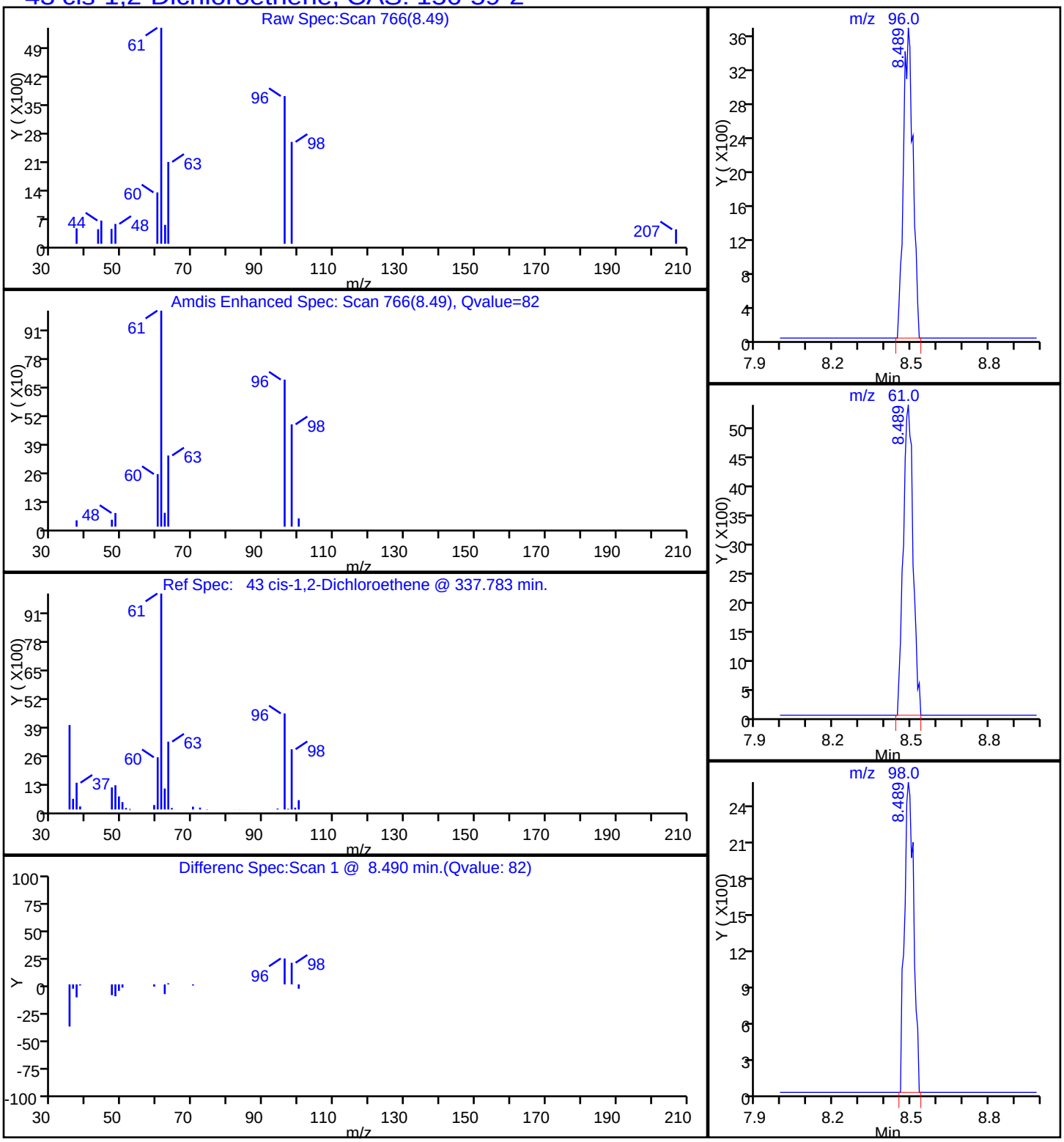




TestAmerica Buffalo

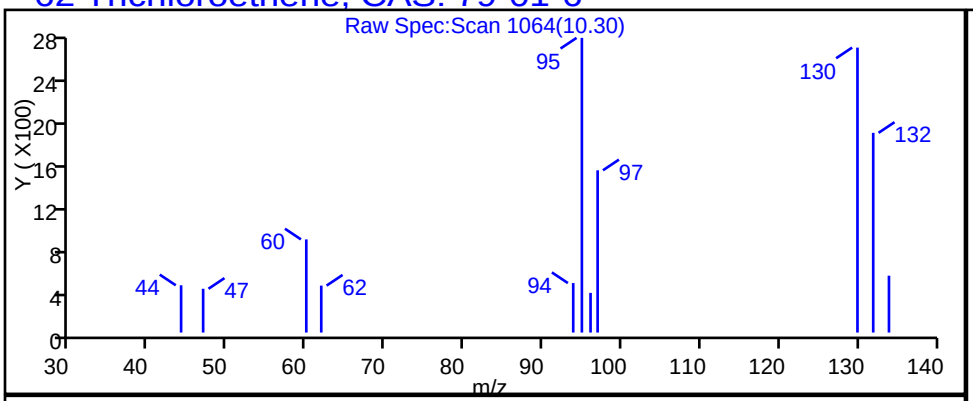
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7818.D				
Injection Date:	06-Jul-2016 03:31:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-5	Lab Sample ID:	480-102539-5		
Client ID:	4009-12				
Operator ID:	SY	ALS Bottle#:	14	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

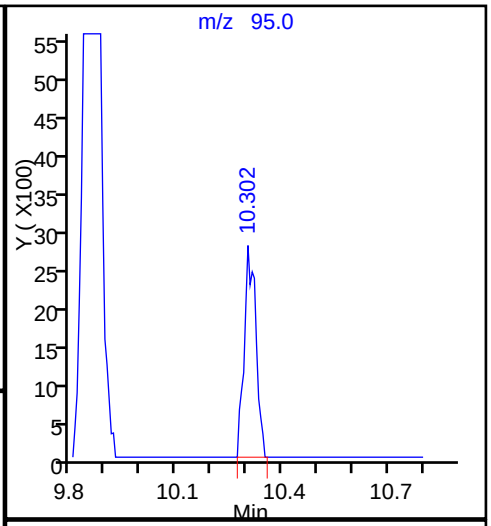
43 cis-1,2-Dichloroethene, CAS: 156-59-2

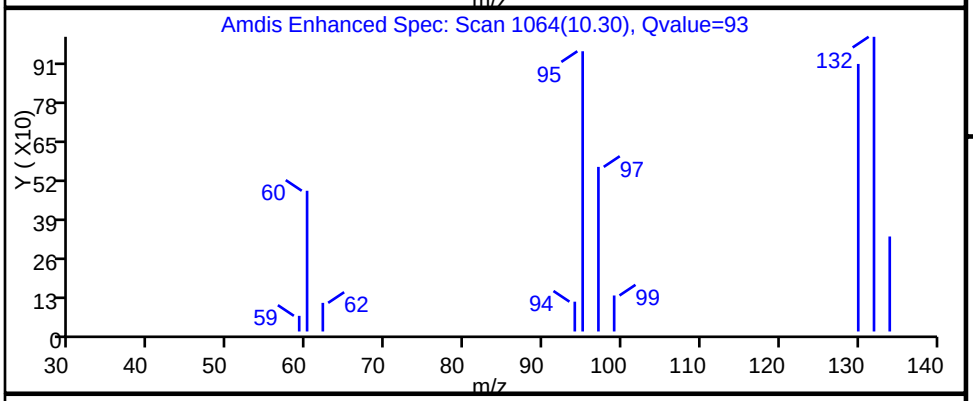


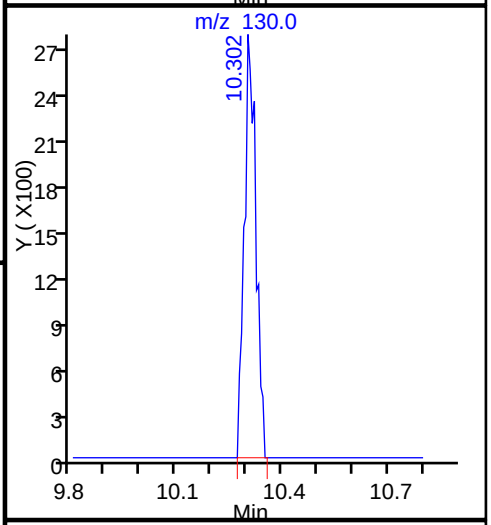
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7818.D
Injection Date: 06-Jul-2016 03:31:30 Instrument ID: HP5973P
Lims ID: 480-102539-A-5 Lab Sample ID: 480-102539-5
Client ID: 4009-12
Operator ID: SY ALS Bottle#: 14 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

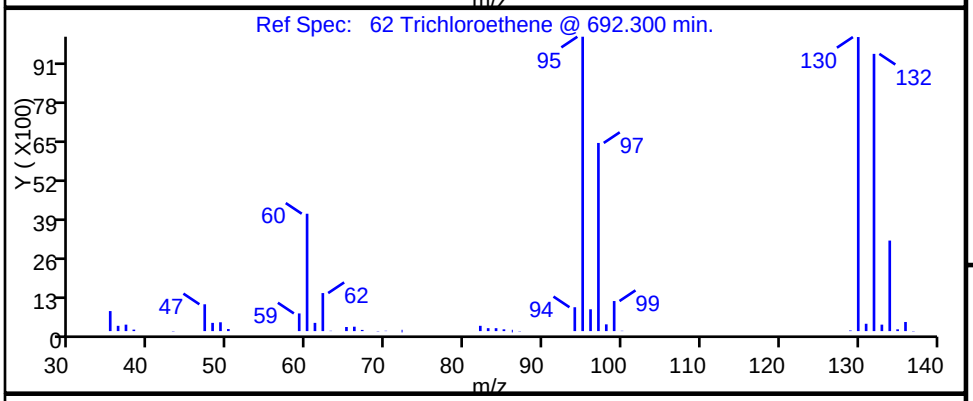
62 Trichloroethene, CAS: 79-01-6

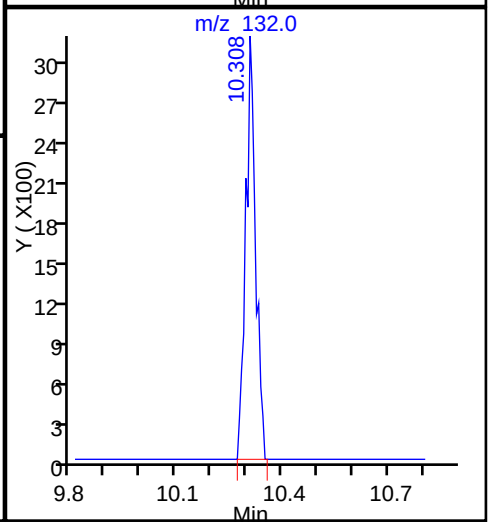


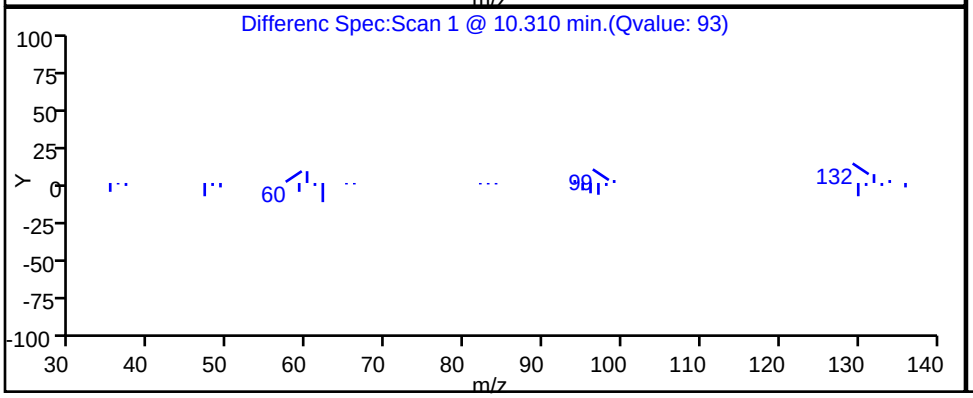








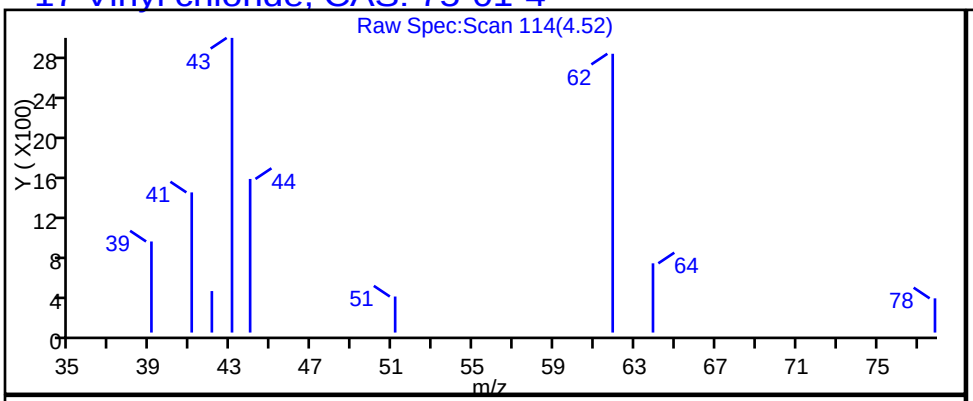


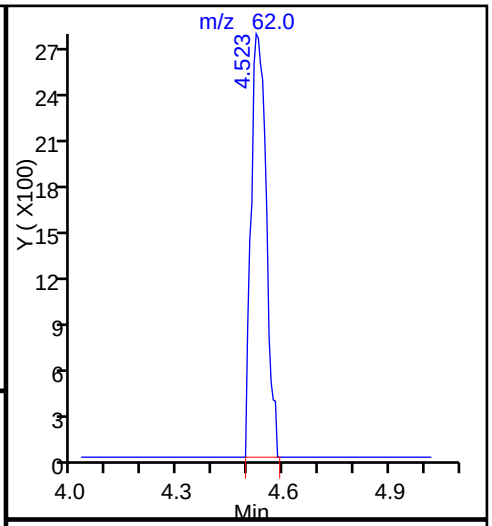


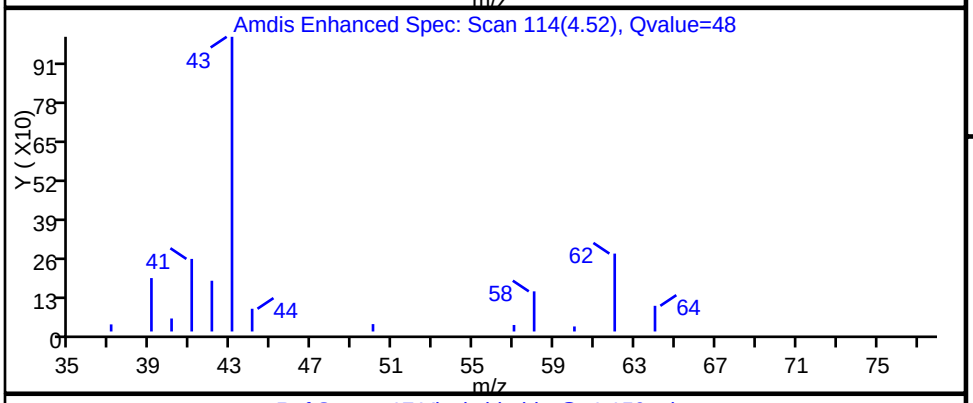
TestAmerica Buffalo

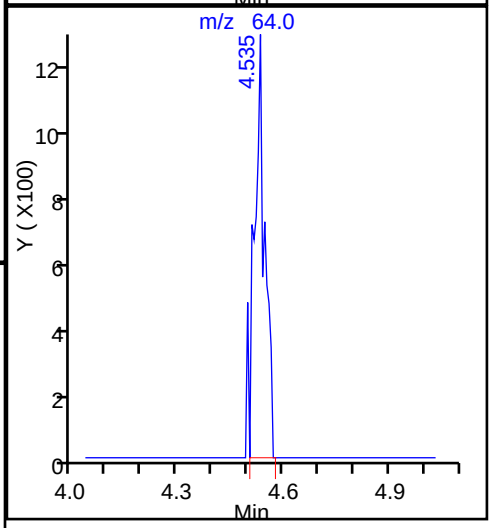
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7818.D				
Injection Date:	06-Jul-2016 03:31:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-5	Lab Sample ID:	480-102539-5		
Client ID:	4009-12				
Operator ID:	SY	ALS Bottle#:	14	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

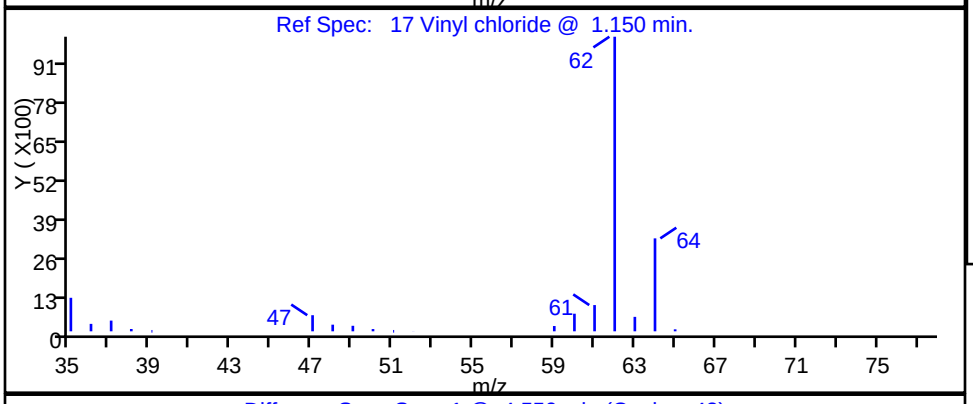
17 Vinyl chloride, CAS: 75-01-4

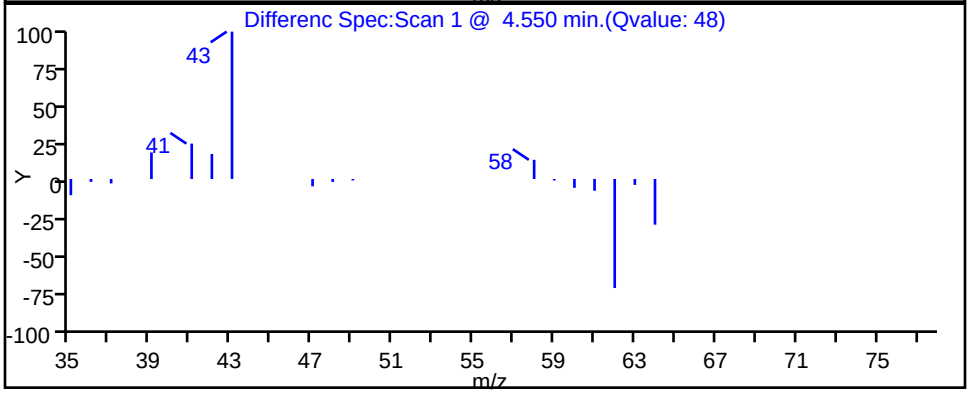












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-13 | Lab Sample ID: 480-102539-6

Matrix: Water | Lab File ID: P7819.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 03:59

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.: 309812 | 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	3.5	J	10	3.0
71-43-2	Benzene	2.4		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-13 | Lab Sample ID: 480-102539-6

Matrix: Water | Lab File ID: P7819.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:05

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 03:59

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7819.D
Lims ID: 480-102539-A-6
Client ID: 4009-13
Sample Type: Client
Inject. Date: 06-Jul-2016 03:59:30 ALS Bottle#: 15 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-6
Misc. Info.: 480-0054594-034
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:00:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	103588	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	213232	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	257529	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	93	149531	25.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	96449	26.1	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	477716	23.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	92	176074	22.7	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.366	6.354	0.012	97	12467	3.51	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.554	9.547	0.007	98	67528	2.40	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

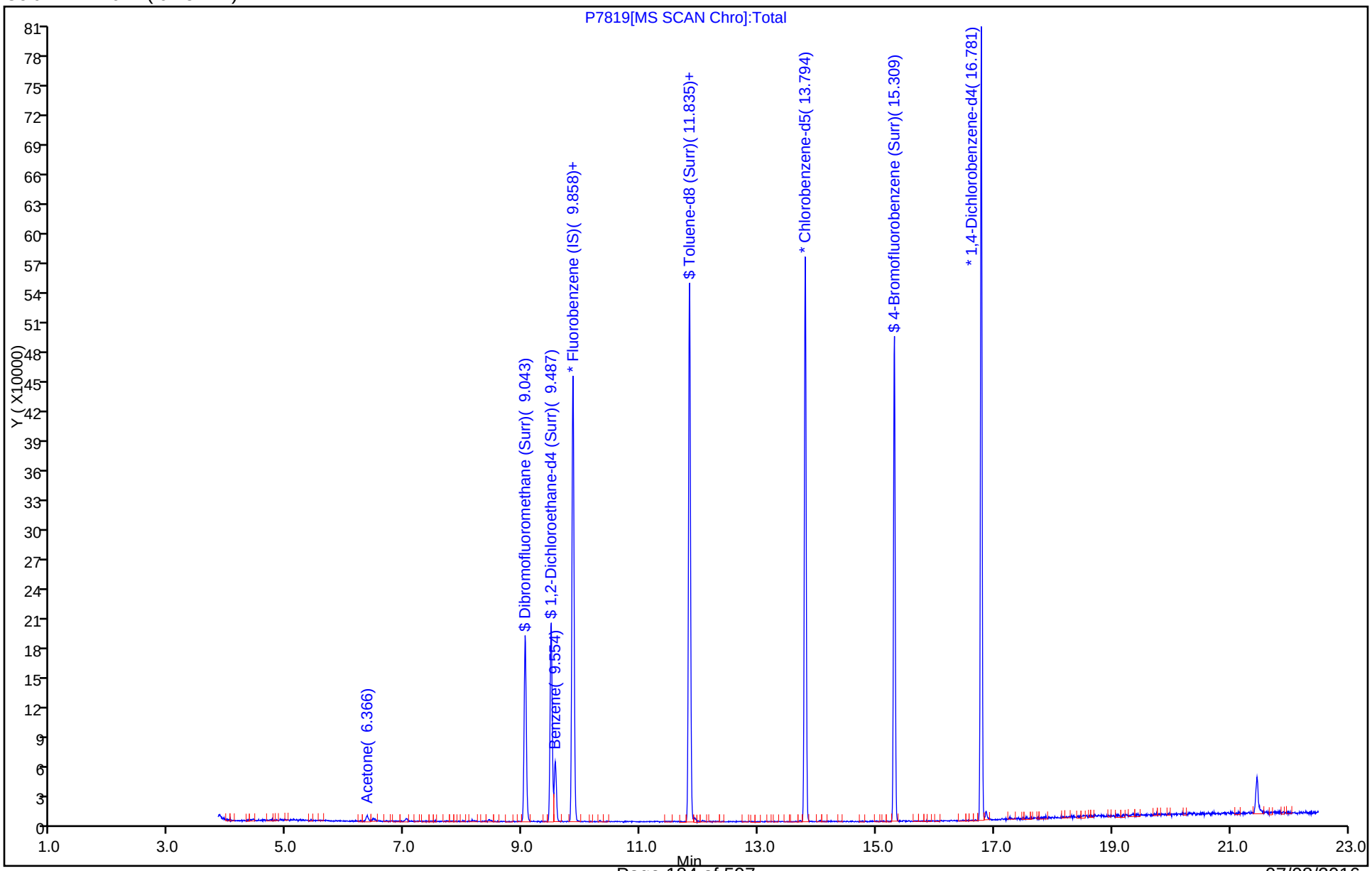
Report Date: 07-Jul-2016 08:00:57 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7819.D

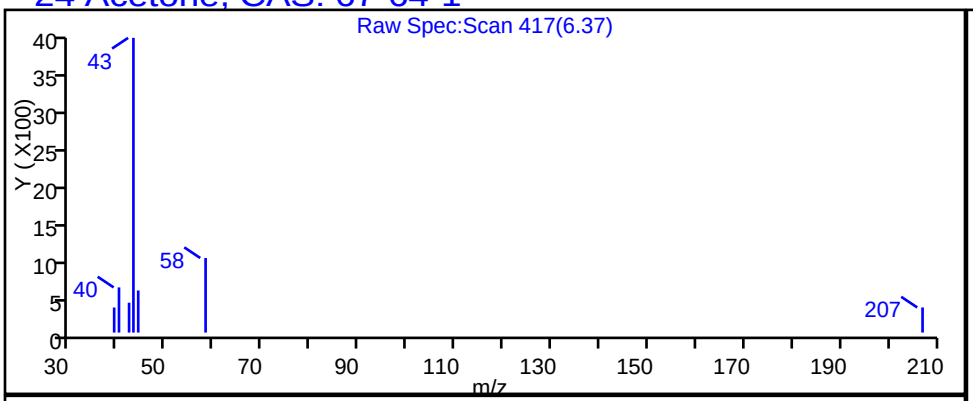
Injection Date:	06-Jul-2016 03:59:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-6	Lab Sample ID:	480-102539-6	Worklist Smp#:	34
Client ID:	4009-13				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

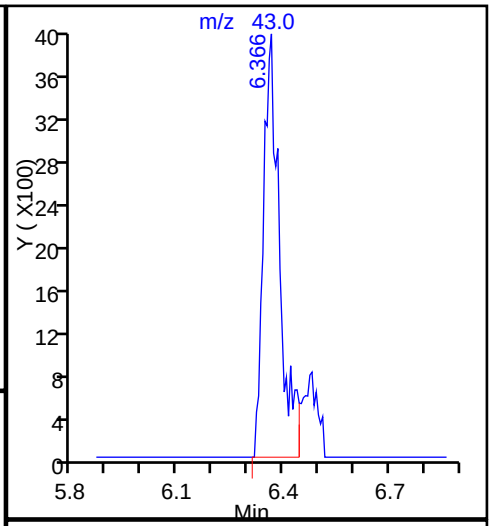
Column: ZB-624 (0.25 mm)

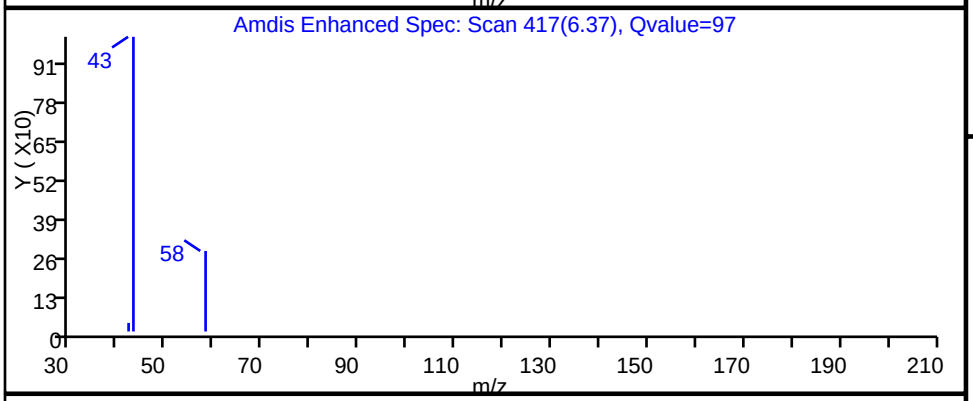


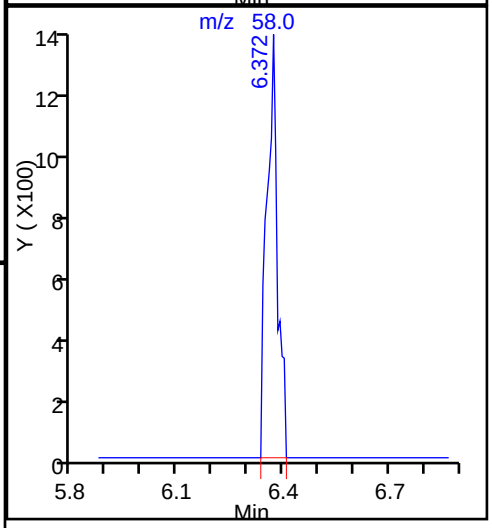
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7819.D
Injection Date: 06-Jul-2016 03:59:30 Instrument ID: HP5973P
Lims ID: 480-102539-A-6 Lab Sample ID: 480-102539-6
Client ID: 4009-13
Operator ID: SY ALS Bottle#: 15 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

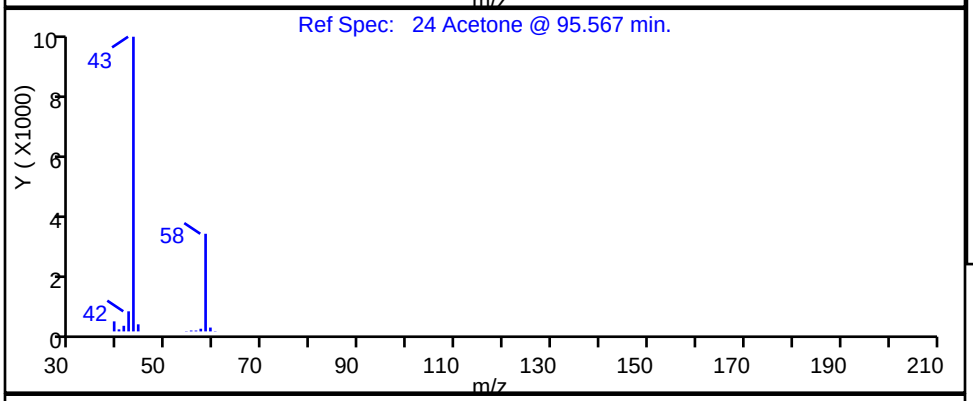
24 Acetone, CAS: 67-64-1

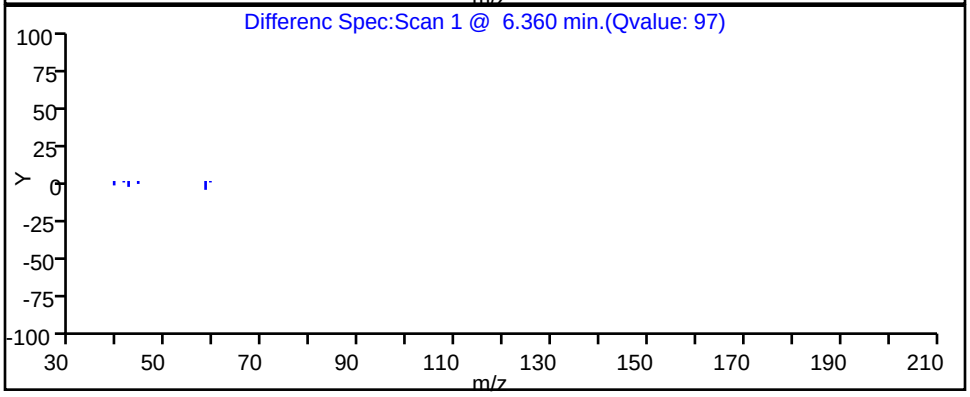








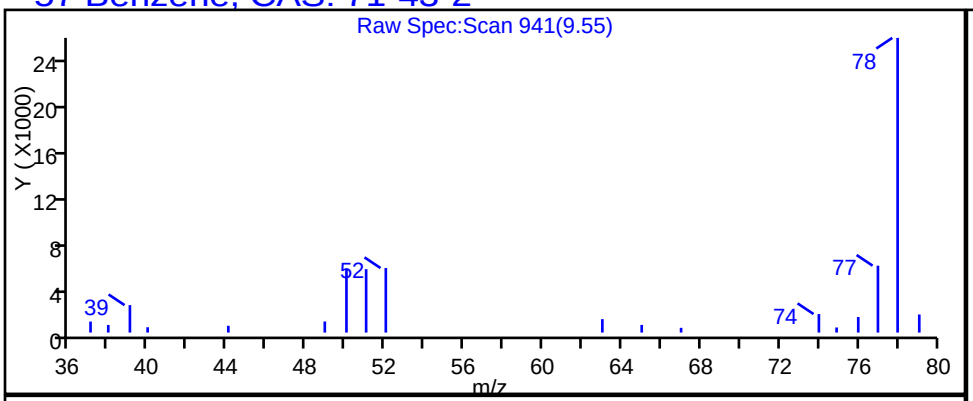


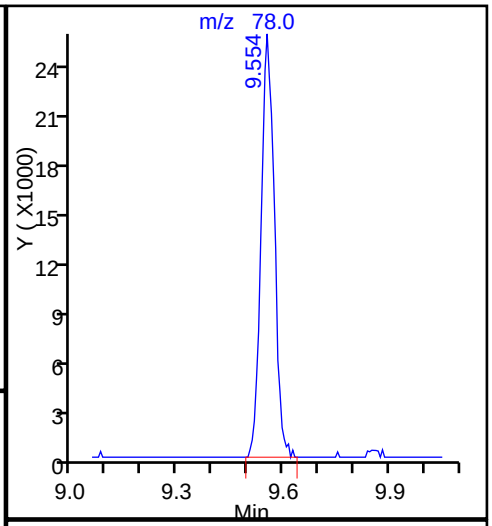


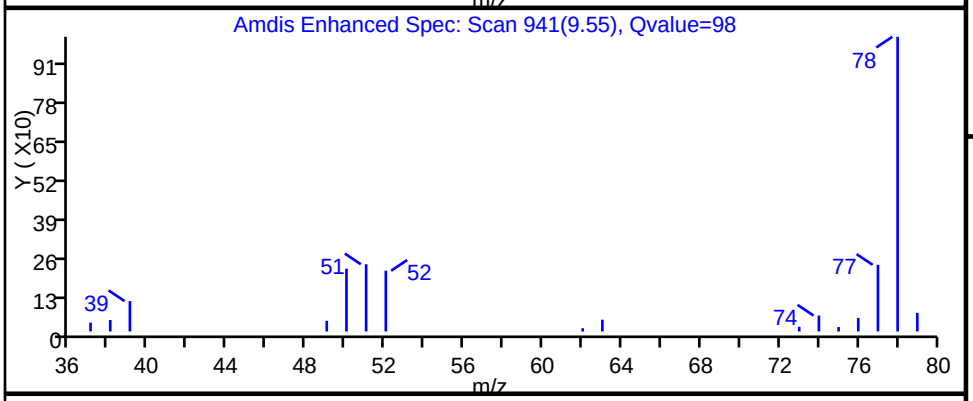
TestAmerica Buffalo

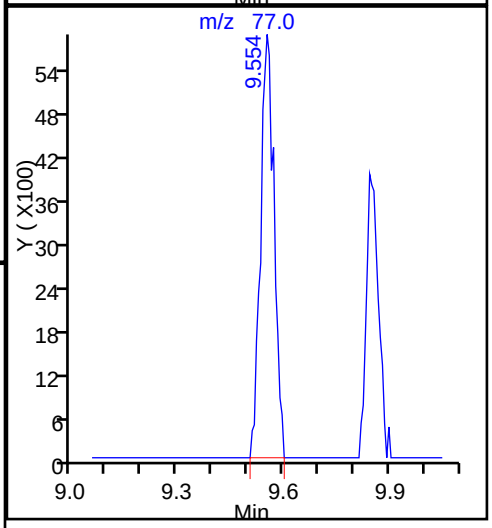
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7819.D				
Injection Date:	06-Jul-2016 03:59:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-6	Lab Sample ID:	480-102539-6		
Client ID:	4009-13				
Operator ID:	SY	ALS Bottle#:	15	Worklist Smp#:	34
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

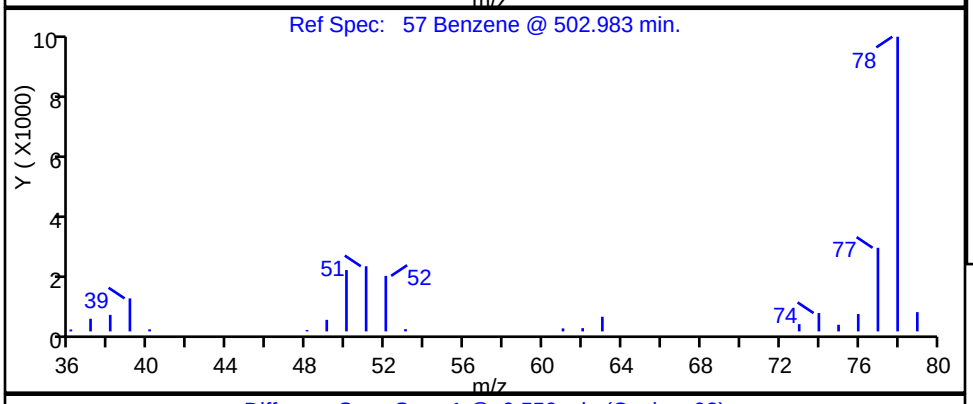
57 Benzene, CAS: 71-43-2

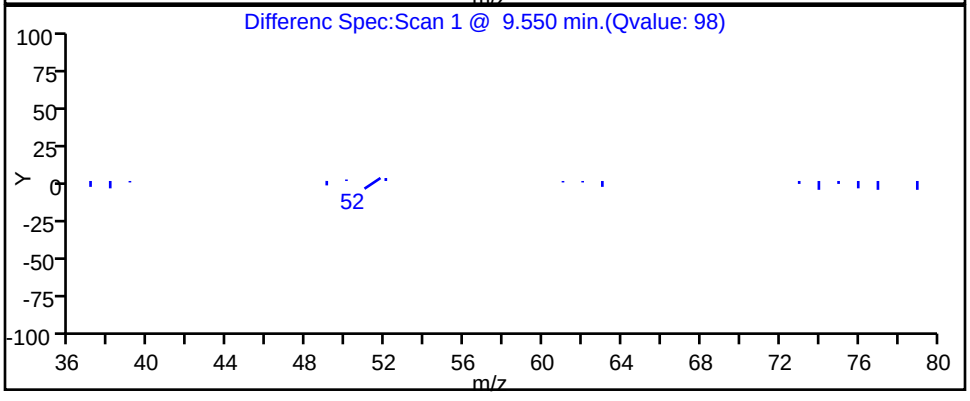












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-13A Lab Sample ID: 480-102539-7

Matrix: Water Lab File ID: P7820.D

Analysis Method: 8260C Date Collected: 06/30/2016 13:10

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2016 04:26

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.: 309812 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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-13A | Lab Sample ID: 480-102539-7

Matrix: Water | Lab File ID: P7820.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 04:26

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7820.D
Lims ID: 480-102539-A-7
Client ID: 4009-13A
Sample Type: Client
Inject. Date: 06-Jul-2016 04:26:30 ALS Bottle#: 16 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-7
Misc. Info.: 480-0054594-035
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:01:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	101129	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	205249	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	251603	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.043	-0.001	93	152024	26.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	92701	25.7	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	476595	24.3	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	93	175122	23.5	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.554	9.547	0.007	11	6688	0.2435	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

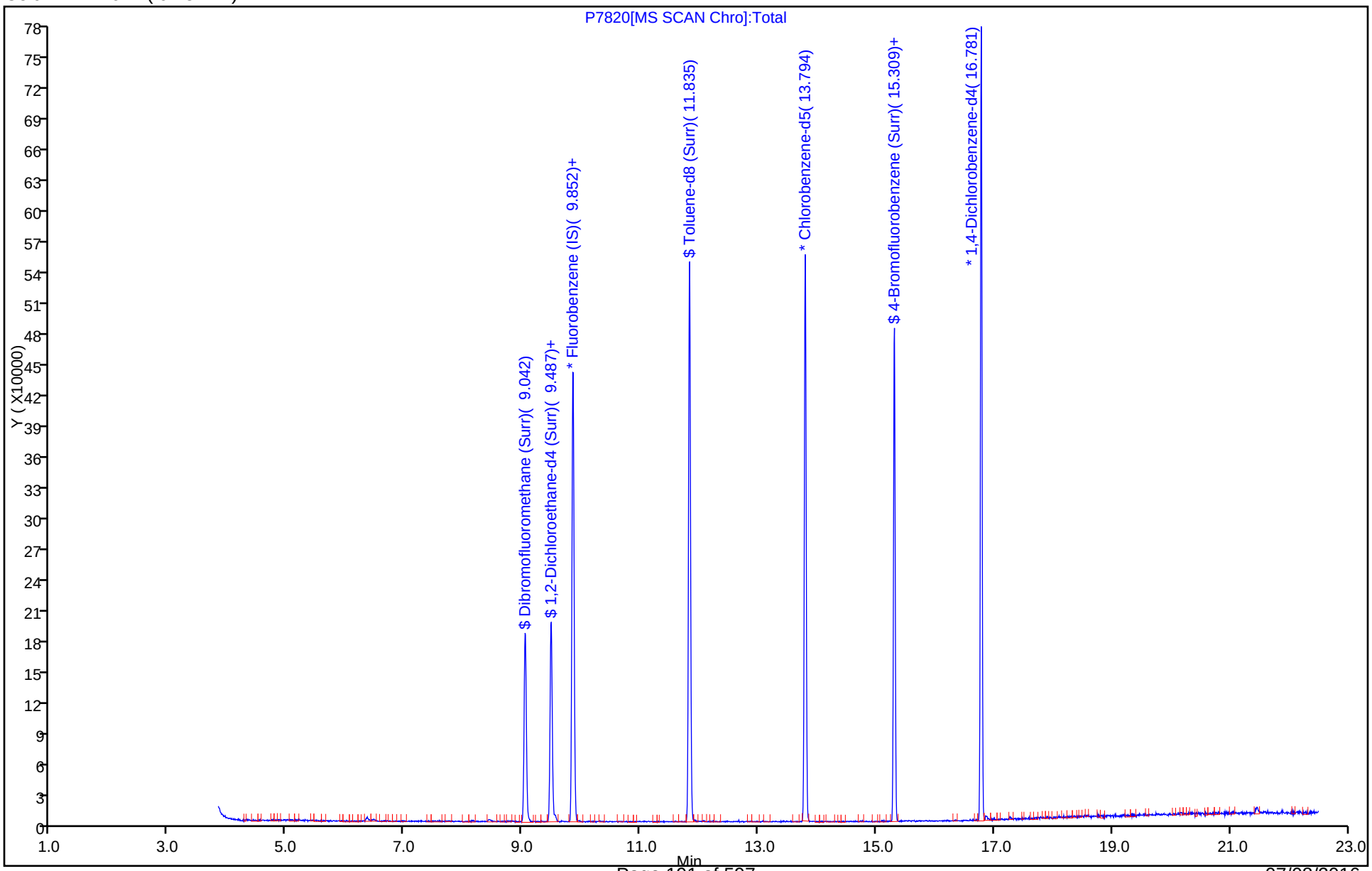
Report Date: 07-Jul-2016 08:01:01 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7820.D

Injection Date:	06-Jul-2016 04:26:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-7	Lab Sample ID:	480-102539-7	Worklist Smp#:	35
Client ID:	4009-13A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-14 Lab Sample ID: 480-102539-8

Matrix: Water Lab File ID: P7821.D

Analysis Method: 8260C Date Collected: 06/30/2016 10:15

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2016 04:53

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.: 309812 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	4.1	J	10	3.0
71-43-2	Benzene	14		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-14 | Lab Sample ID: 480-102539-8

Matrix: Water | Lab File ID: P7821.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 04:53

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	102		66-137
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7821.D
Lims ID: 480-102539-A-8
Client ID: 4009-14
Sample Type: Client
Inject. Date: 06-Jul-2016 04:53:30 ALS Bottle#: 17 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-8
Misc. Info.: 480-0054594-036
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:01:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	102462	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	211083	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	251330	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.043	-0.001	93	152497	26.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	93089	25.5	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	93	476564	23.6	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	93	172970	22.5	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.372	6.354	0.018	96	14585	4.15	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.560	9.547	0.013	98	401458	14.4	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92	11.920	11.920	0.000	97	11091	0.2708	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

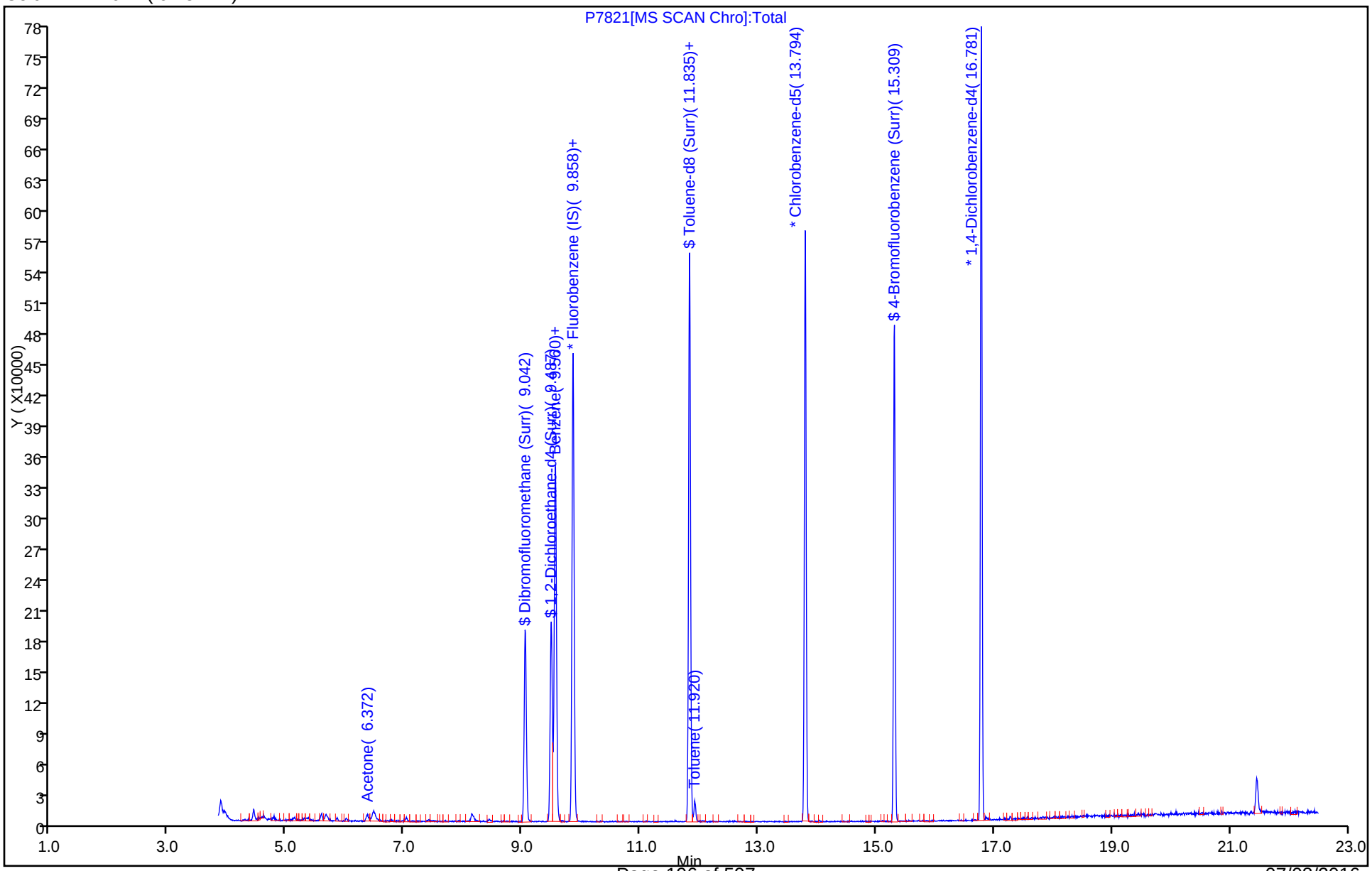
Report Date: 07-Jul-2016 08:01:06 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7821.D

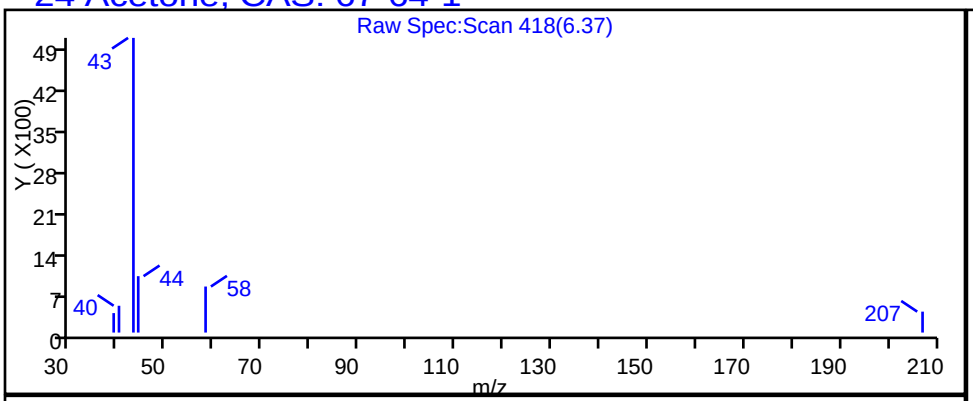
Injection Date:	06-Jul-2016 04:53:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-8	Lab Sample ID:	480-102539-8	Worklist Smp#:	36
Client ID:	4009-14				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

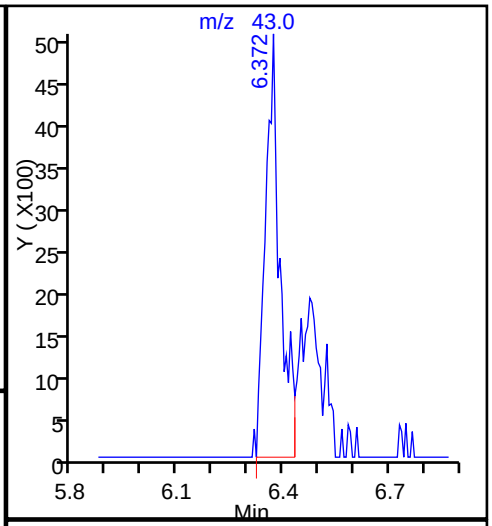
Column: ZB-624 (0.25 mm)

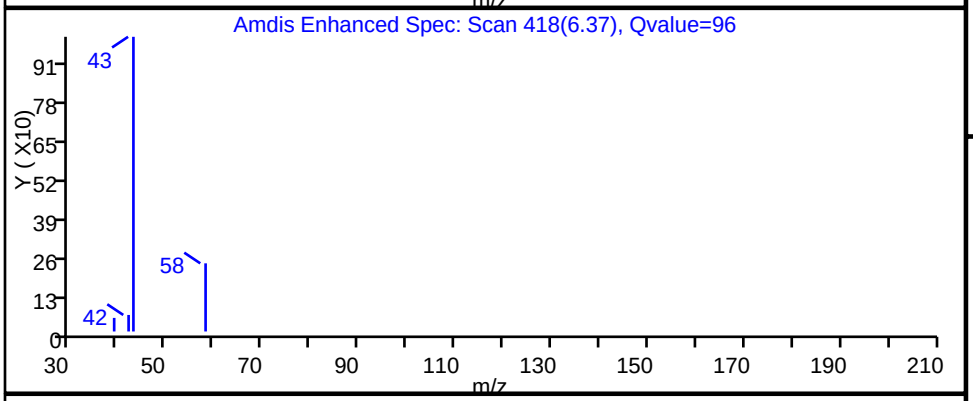


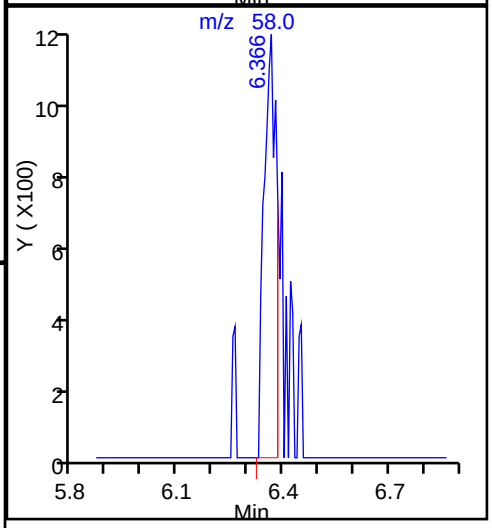
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7821.D
Injection Date: 06-Jul-2016 04:53:30 Instrument ID: HP5973P
Lims ID: 480-102539-A-8 Lab Sample ID: 480-102539-8
Client ID: 4009-14
Operator ID: SY ALS Bottle#: 17 Worklist Smp#: 36
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

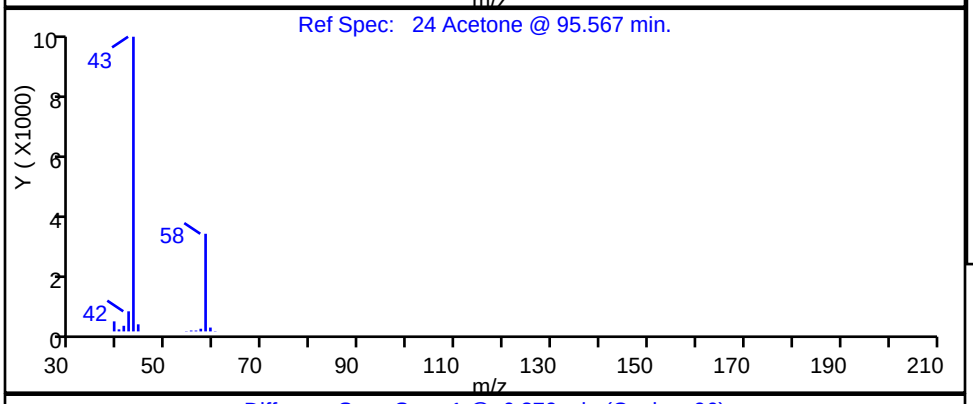
24 Acetone, CAS: 67-64-1

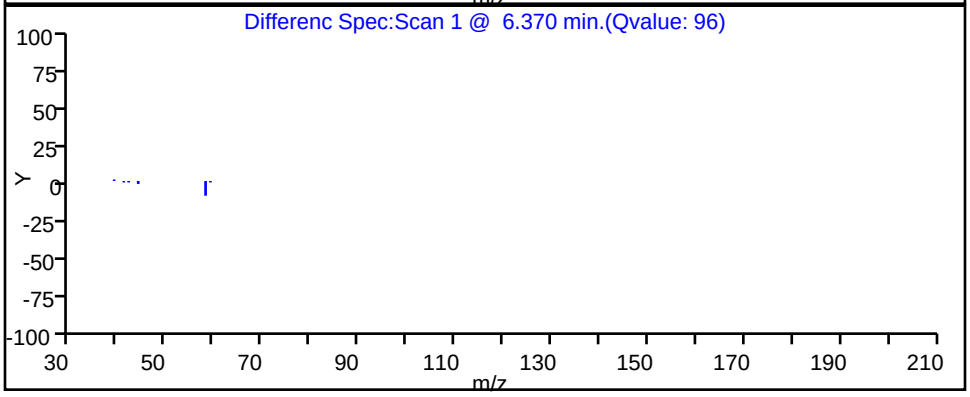








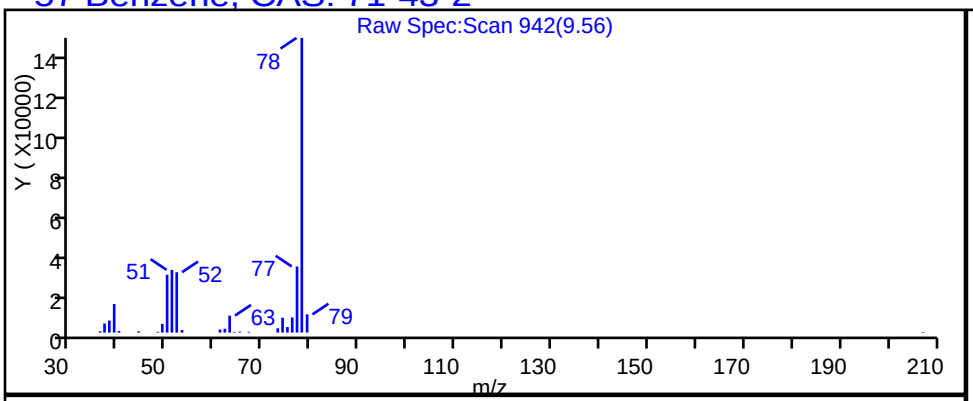


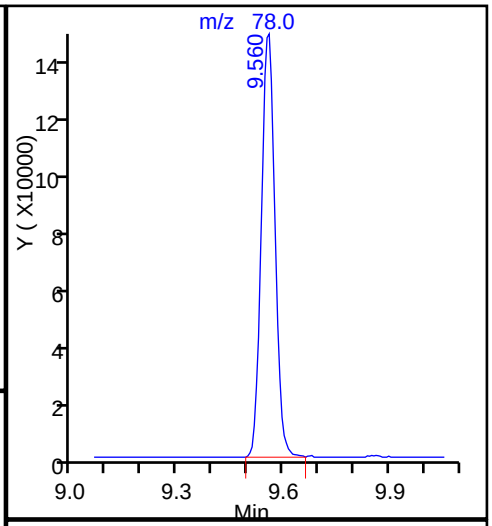


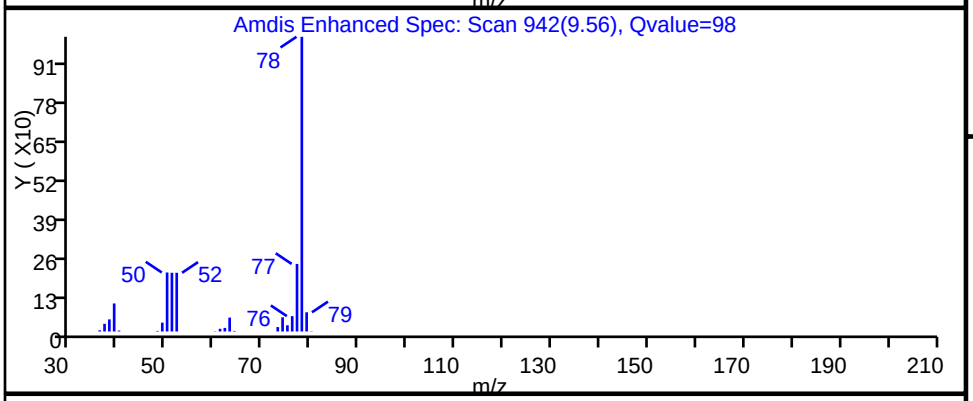
TestAmerica Buffalo

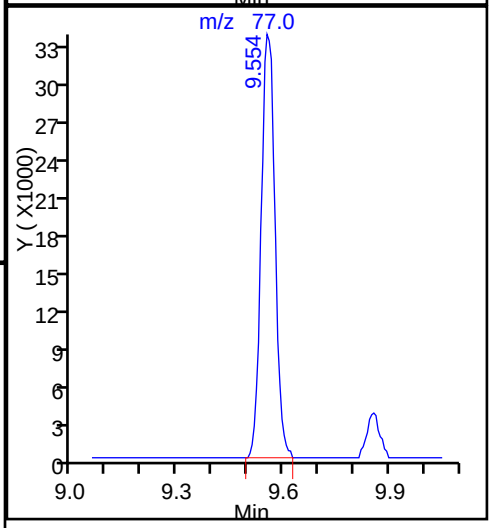
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7821.D				
Injection Date:	06-Jul-2016 04:53:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-8	Lab Sample ID:	480-102539-8		
Client ID:	4009-14				
Operator ID:	SY	ALS Bottle#:	17	Worklist Smp#:	36
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

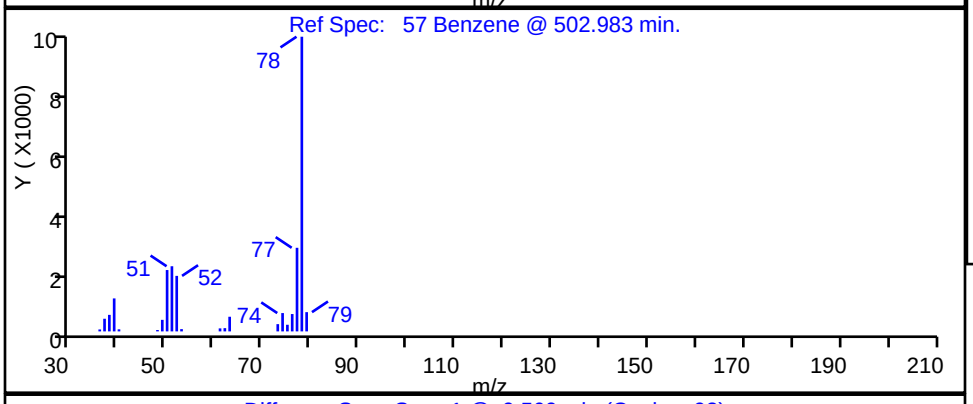
57 Benzene, CAS: 71-43-2

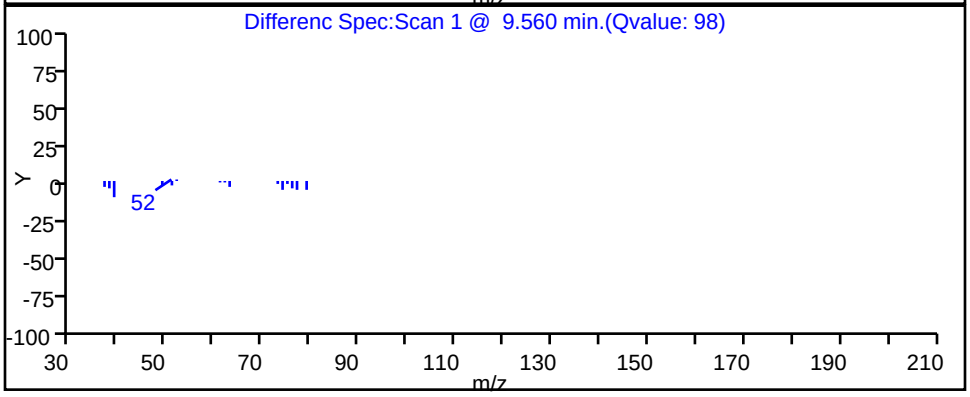












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-15 | Lab Sample ID: 480-102539-9

Matrix: Water | Lab File ID: P7822.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 05:20

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.: 309812 | 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	9.1	J	10	3.0
71-43-2	Benzene	8.5		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-15 | Lab Sample ID: 480-102539-9

Matrix: Water | Lab File ID: P7822.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 05:20

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7822.D
Lims ID: 480-102539-A-9
Client ID: 4009-15
Sample Type: Client
Inject. Date: 06-Jul-2016 05:20:30 ALS Bottle#: 18 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-9
Misc. Info.: 480-0054594-037
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:01:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.852	9.852	0.000	99	99188	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	208264	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	252791	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	92	150532	26.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	92276	26.1	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	470371	23.6	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	91	171227	22.6	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.366	6.354	0.012	99	31041	9.12	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.560	9.547	0.013	98	228752	8.49	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

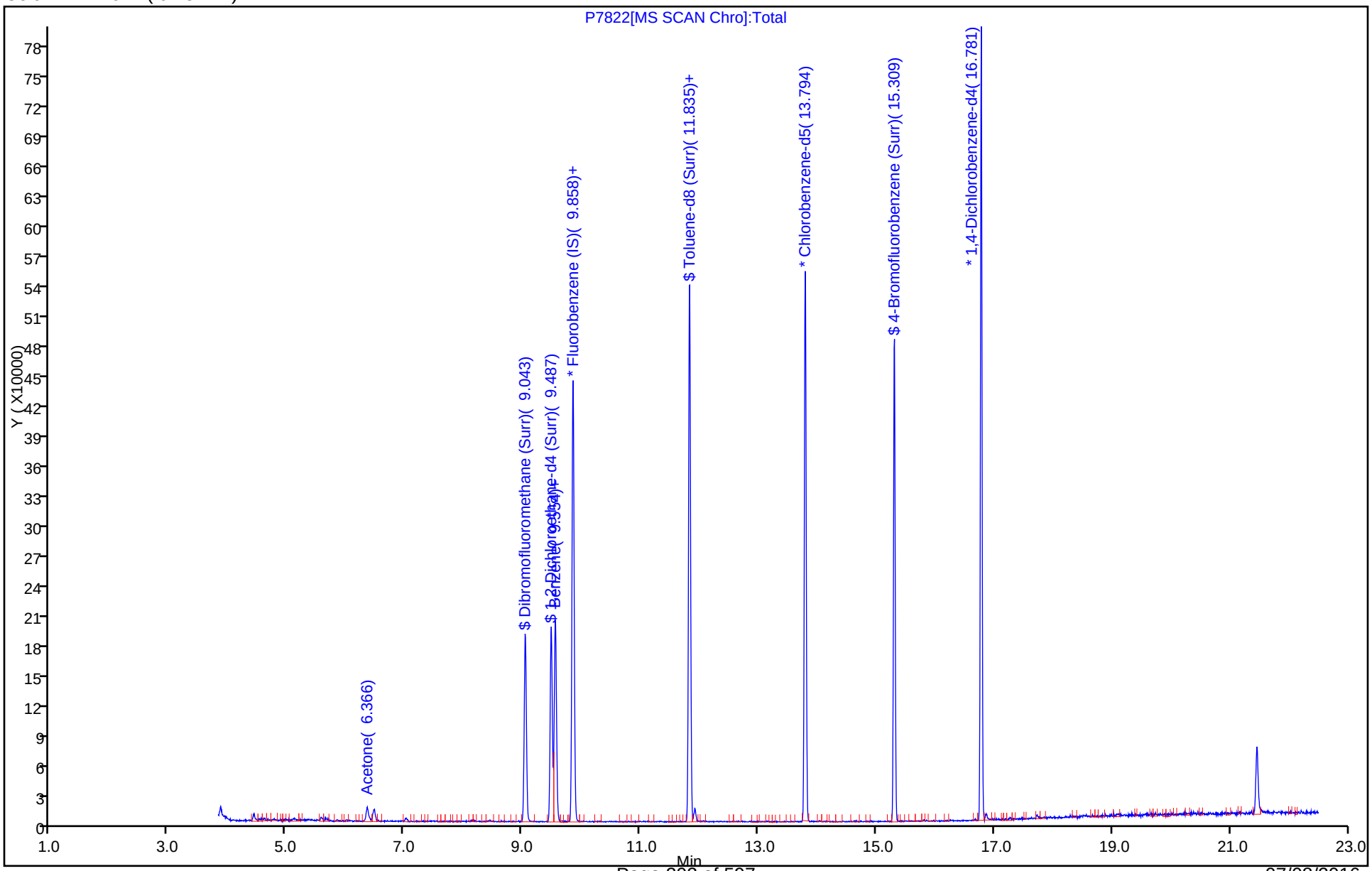
Report Date: 07-Jul-2016 08:01:13 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7822.D

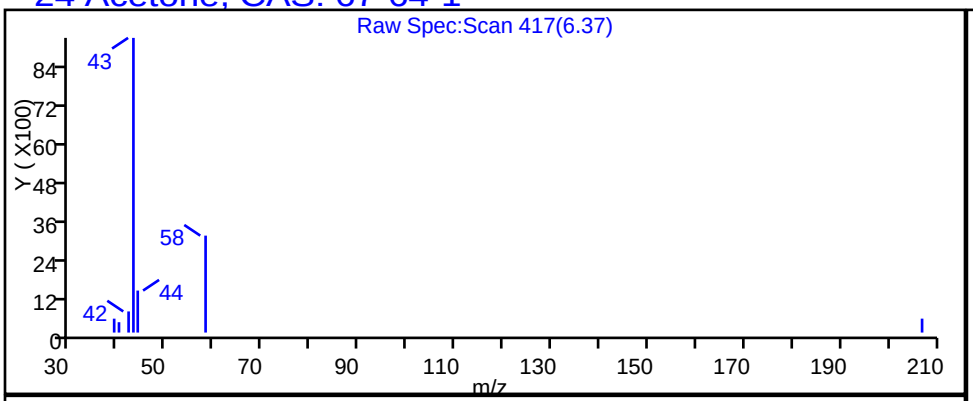
Injection Date:	06-Jul-2016 05:20:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-9	Lab Sample ID:	480-102539-9	Worklist Smp#:	37
Client ID:	4009-15				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

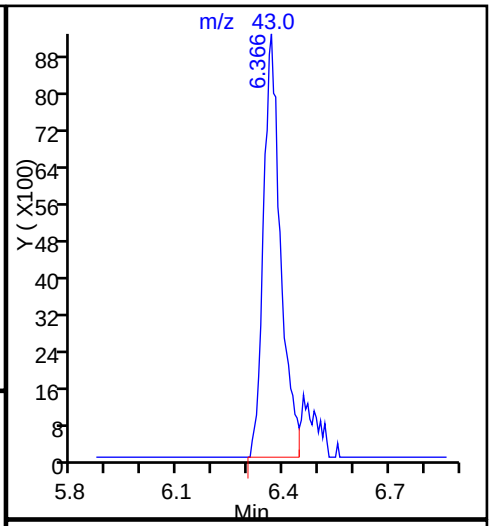
Column: ZB-624 (0.25 mm)

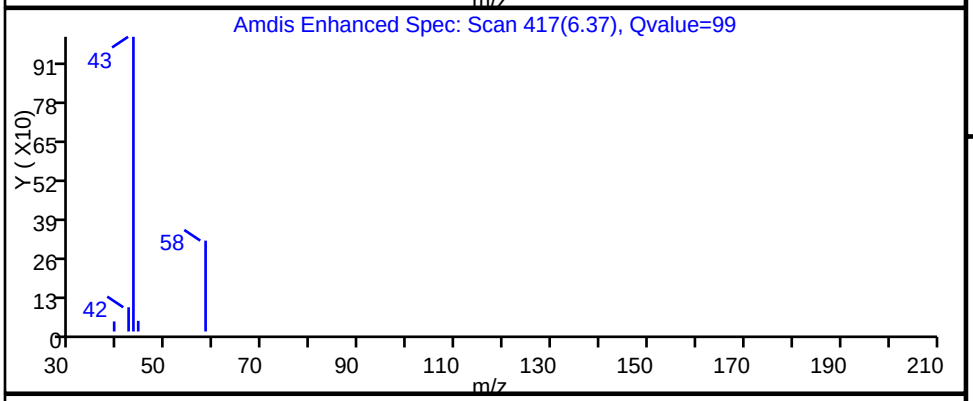


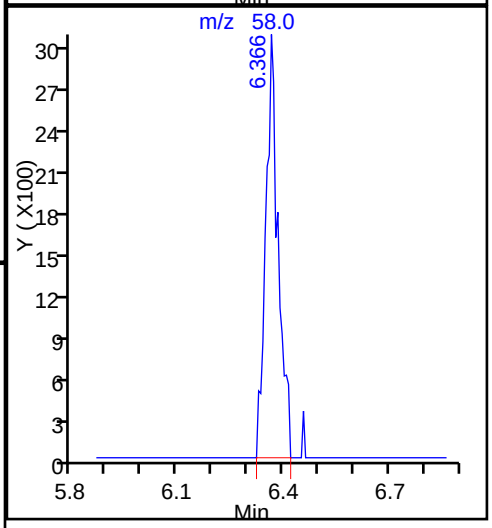
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7822.D
Injection Date: 06-Jul-2016 05:20:30 Instrument ID: HP5973P
Lims ID: 480-102539-A-9 Lab Sample ID: 480-102539-9
Client ID: 4009-15
Operator ID: SY ALS Bottle#: 18 Worklist Smp#: 37
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

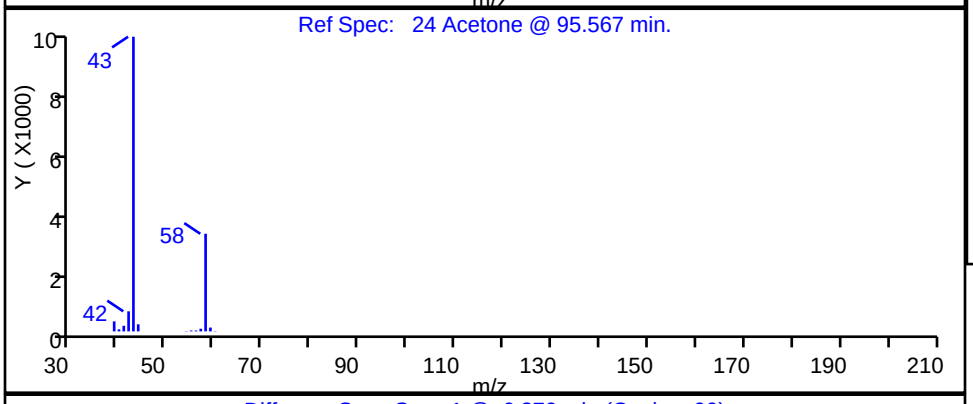
24 Acetone, CAS: 67-64-1

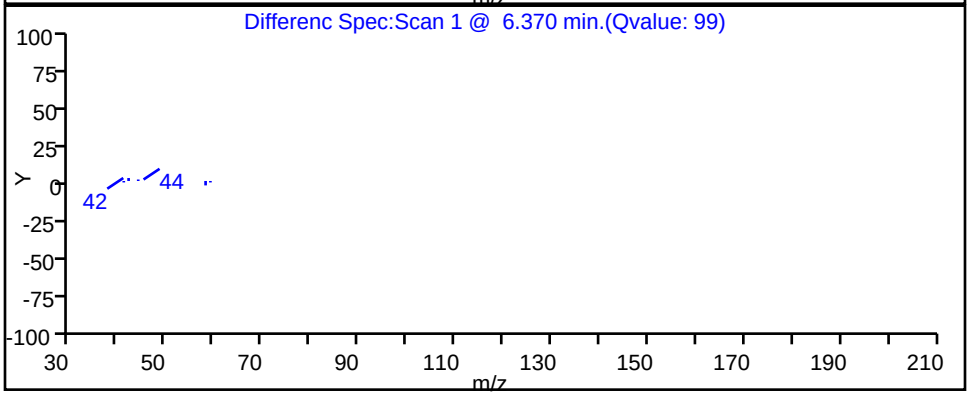








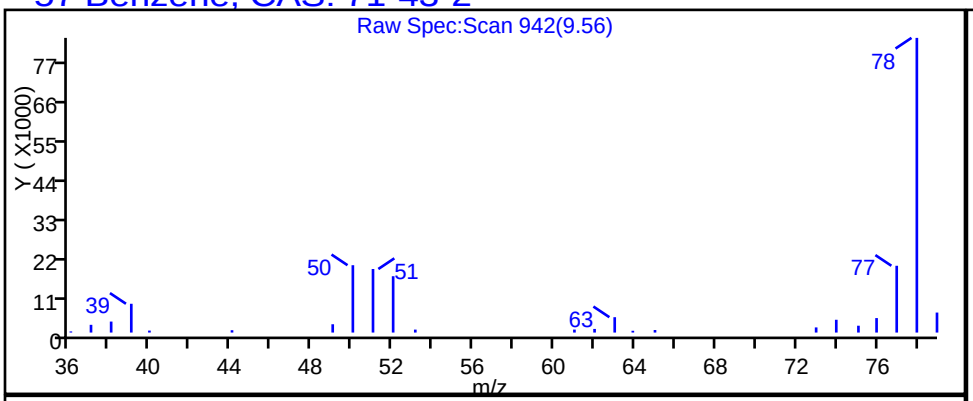


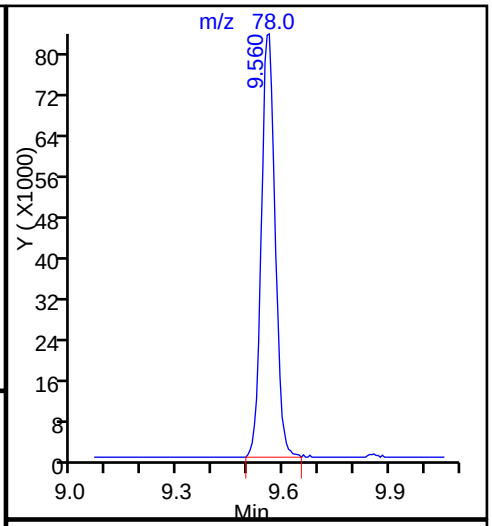


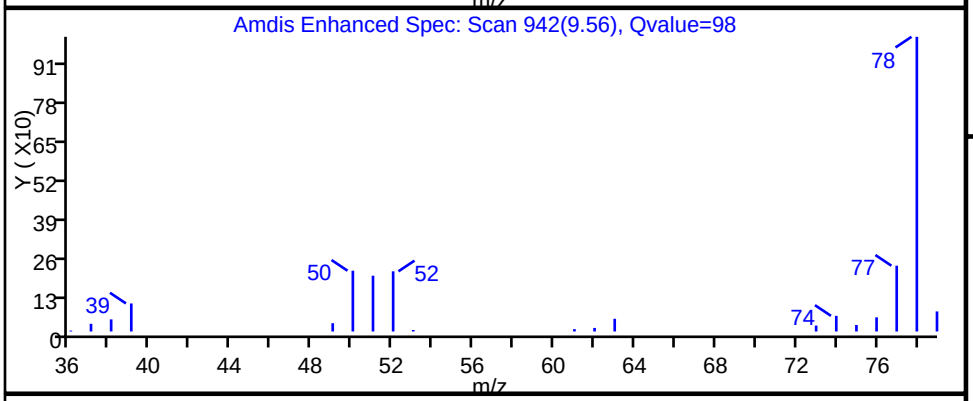
TestAmerica Buffalo

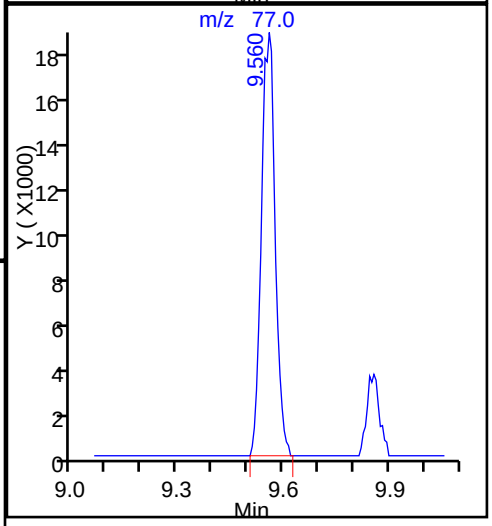
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7822.D				
Injection Date:	06-Jul-2016 05:20:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-9	Lab Sample ID:	480-102539-9		
Client ID:	4009-15				
Operator ID:	SY	ALS Bottle#:	18	Worklist Smp#:	37
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

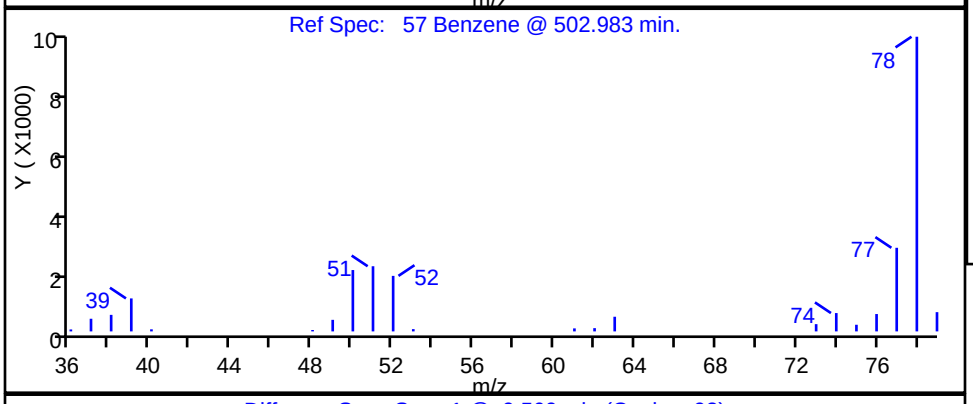
57 Benzene, CAS: 71-43-2

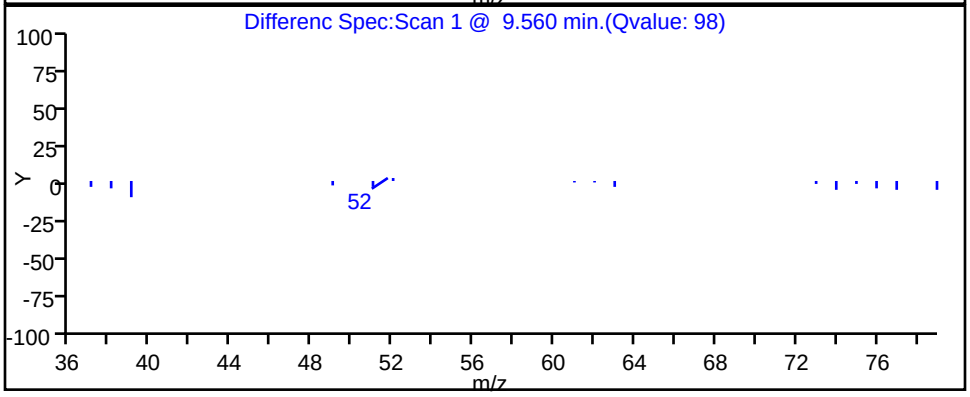












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-16 | Lab Sample ID: 480-102539-10

Matrix: Water | Lab File ID: P7823.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 05:48

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.: 309812 | 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	4.5	J	10	3.0
71-43-2	Benzene	8.4		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-16 | Lab Sample ID: 480-102539-10

Matrix: Water | Lab File ID: P7823.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 05:48

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7823.D
Lims ID: 480-102539-A-10
Client ID: 4009-16
Sample Type: Client
Inject. Date: 06-Jul-2016 05:48:30 ALS Bottle#: 19 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-10
Misc. Info.: 480-0054594-038
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:01:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.851	9.852	-0.001	98	99302	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	203690	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	252073	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.043	-0.001	93	151167	26.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.480	9.481	-0.001	0	92039	26.0	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	463441	23.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	92	170264	23.0	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.360	6.354	0.006	99	15227	4.47	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.553	9.547	0.006	98	226302	8.39	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92	11.926	11.920	0.006	97	9760	0.2117	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

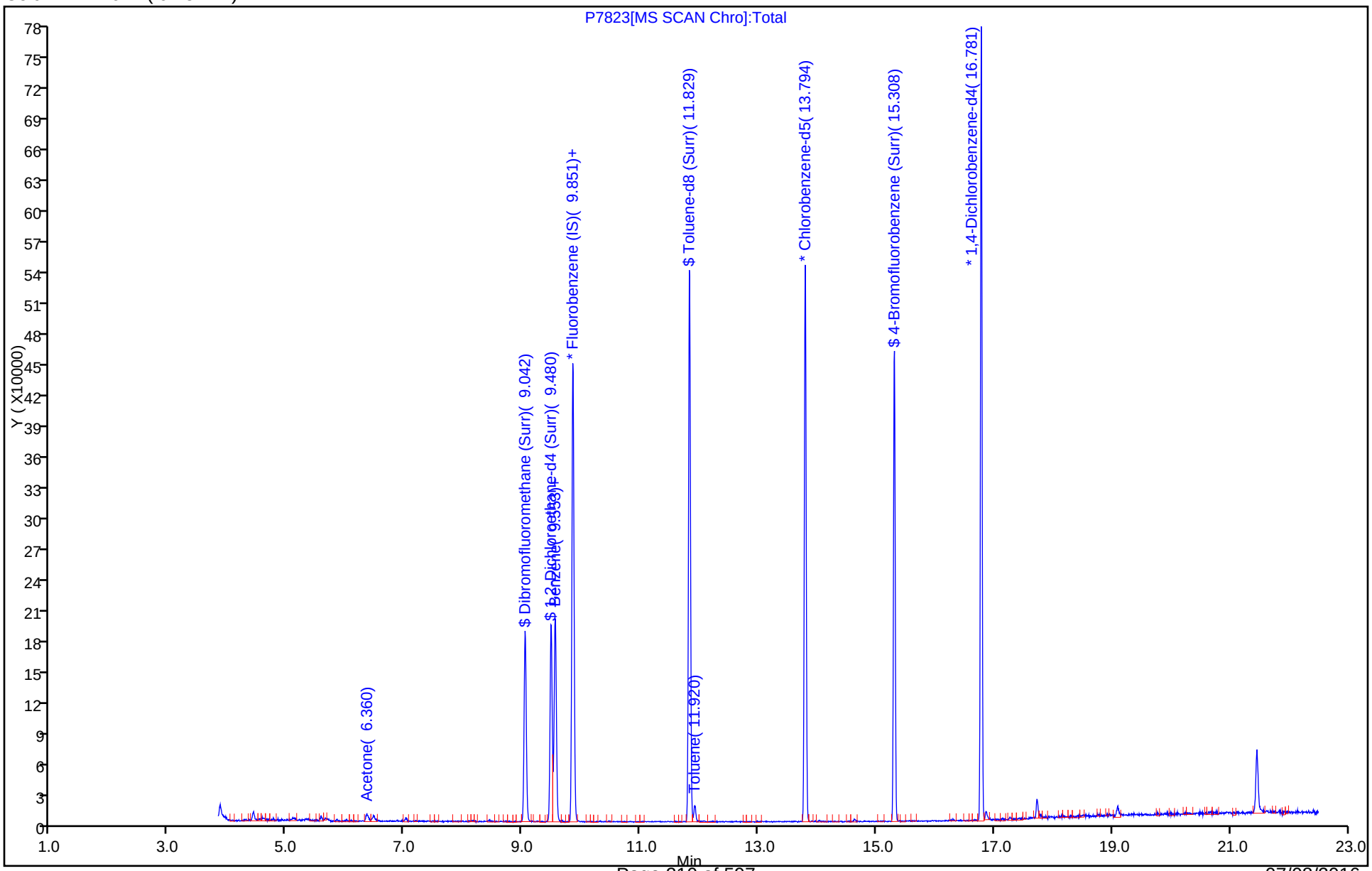
Report Date: 07-Jul-2016 08:01:19 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7823.D

Injection Date:	06-Jul-2016 05:48:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-10	Lab Sample ID:	480-102539-10	Worklist Smp#:	38
Client ID:	4009-16				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

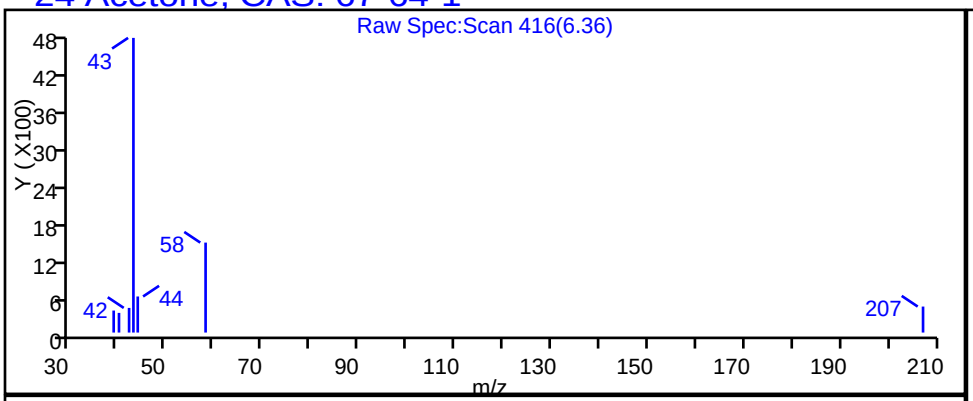


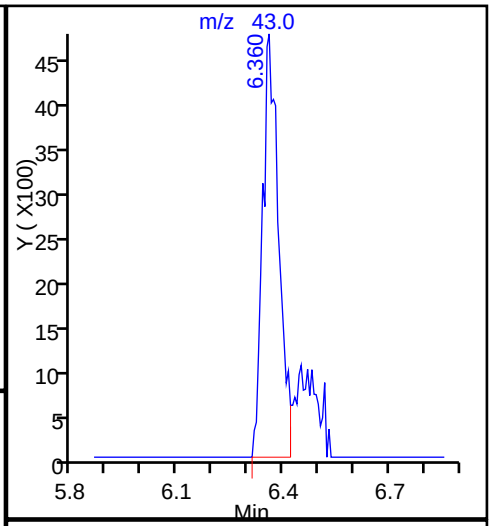
TestAmerica Buffalo

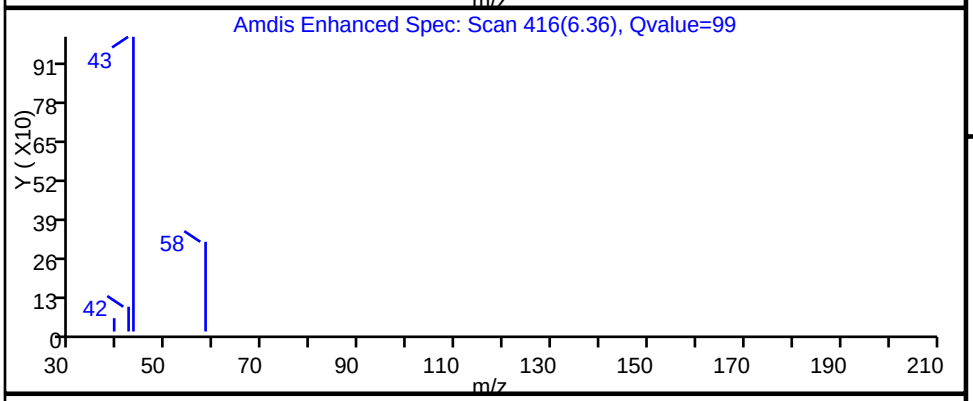
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7823.D

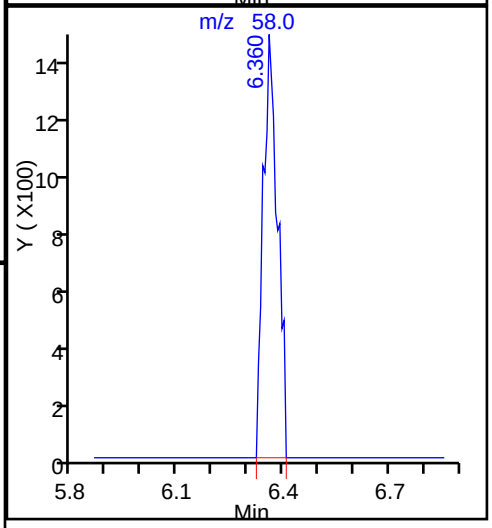
Injection Date:	06-Jul-2016 05:48:30	Instrument ID:	HP5973P
Lims ID:	480-102539-A-10	Lab Sample ID:	480-102539-10
Client ID:	4009-16		
Operator ID:	SY	ALS Bottle#:	19 Worklist Smp#: 38
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

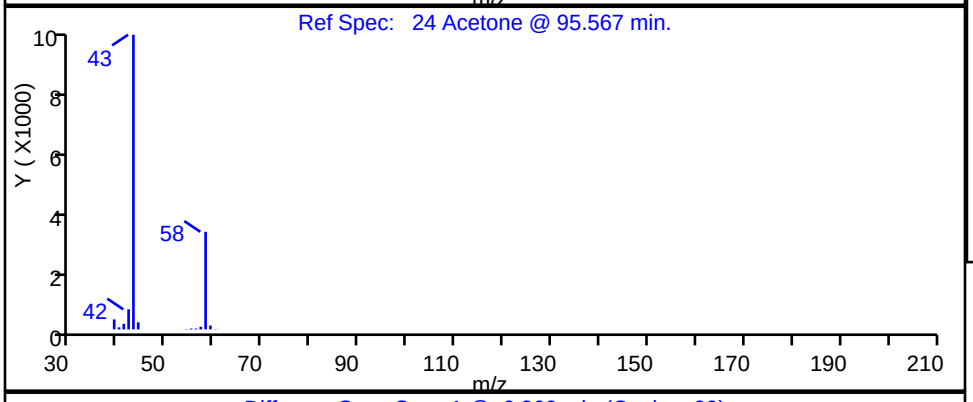
24 Acetone, CAS: 67-64-1

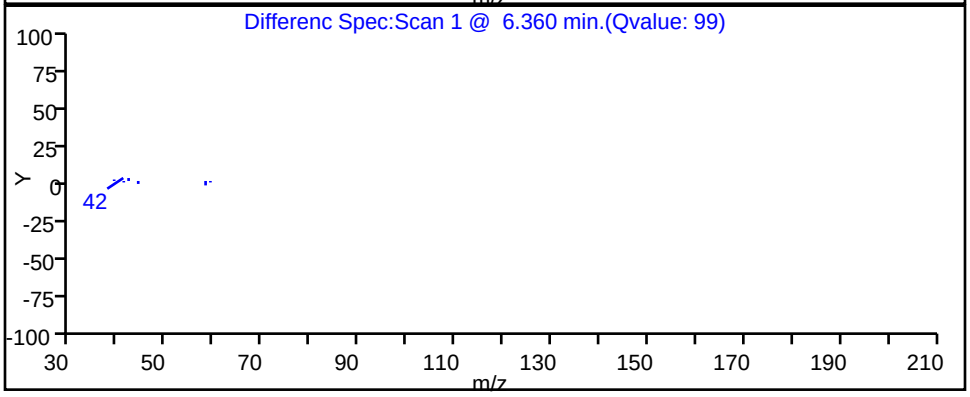








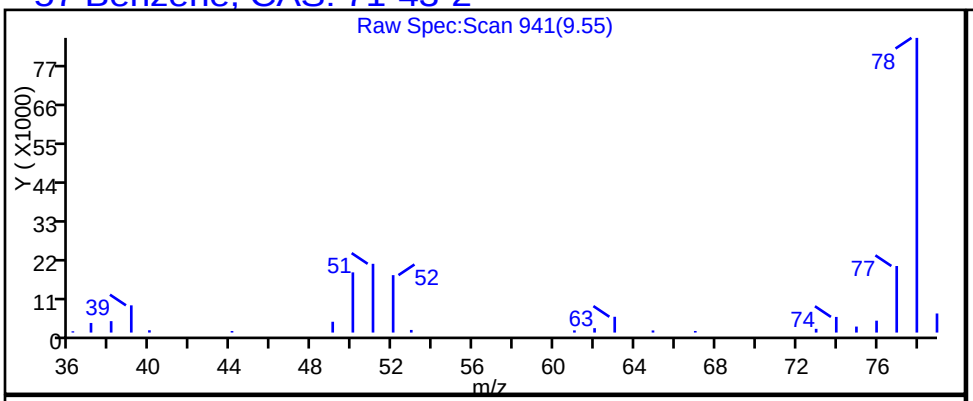


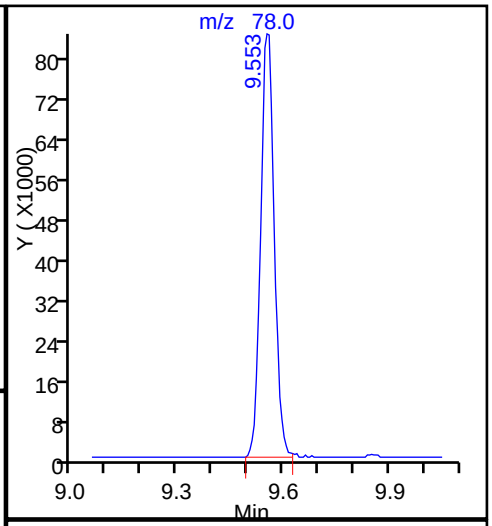


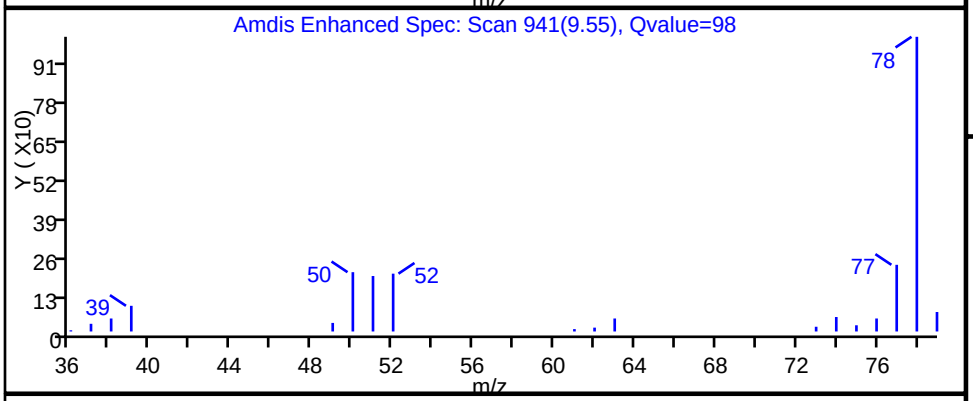
TestAmerica Buffalo

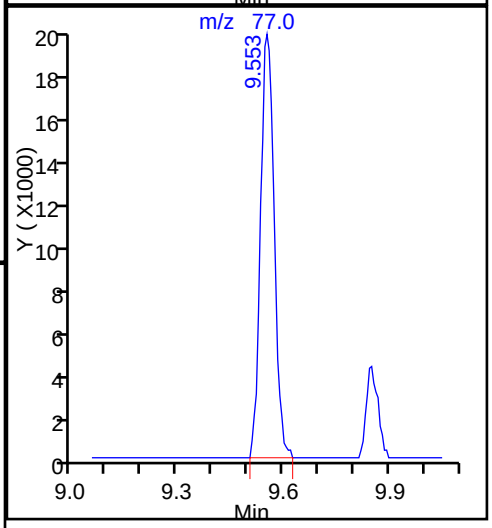
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7823.D				
Injection Date:	06-Jul-2016 05:48:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-10	Lab Sample ID:	480-102539-10		
Client ID:	4009-16				
Operator ID:	SY	ALS Bottle#:	19	Worklist Smp#:	38
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

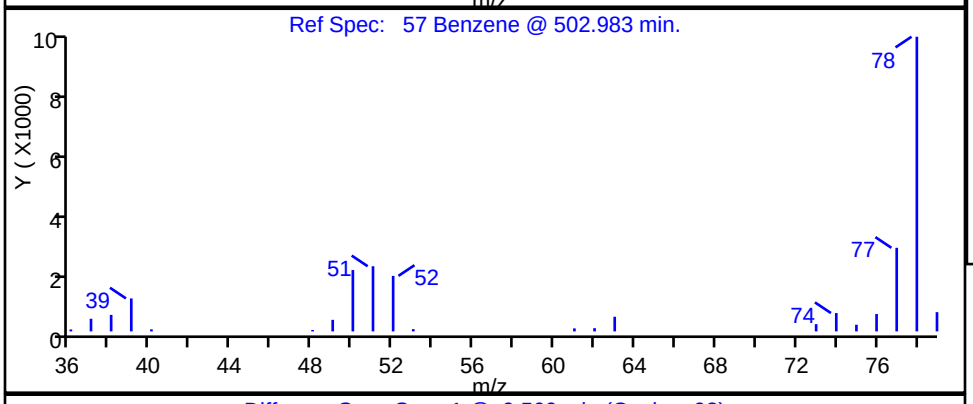
57 Benzene, CAS: 71-43-2

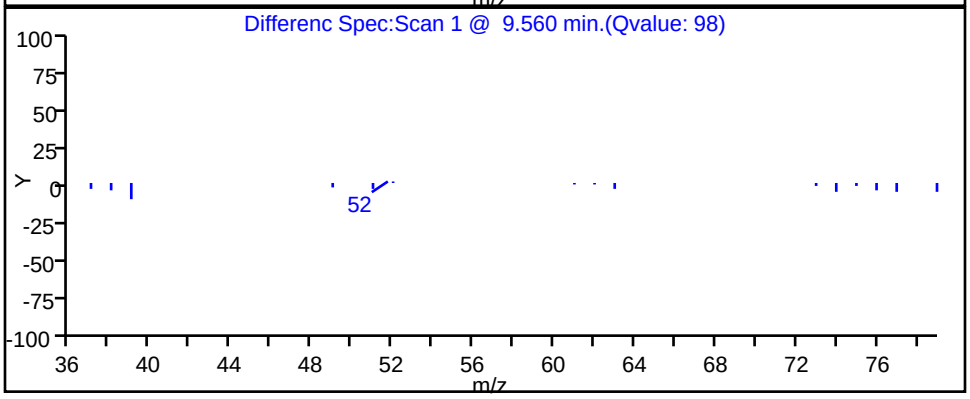












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-16A | Lab Sample ID: 480-102539-11

Matrix: Water | Lab File ID: P7824.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 06:15

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.: 309812 | 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	0.49	J	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-16A | Lab Sample ID: 480-102539-11

Matrix: Water | Lab File ID: P7824.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 06:15

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	106		66-137
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7824.D
Lims ID: 480-102539-A-11
Client ID: 4009-16A
Sample Type: Client
Inject. Date: 06-Jul-2016 06:15:30 ALS Bottle#: 20 Worklist Smp#: 39
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-11
Misc. Info.: 480-0054594-039
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:01:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	99525	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	204196	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	249267	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.048	9.043	0.005	93	150585	26.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.480	9.481	-0.001	0	93738	26.4	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	471562	24.1	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	96	172223	23.2	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.091	9.097	-0.006	7	3098	0.2655	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.553	9.547	0.006	93	13300	0.4921	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

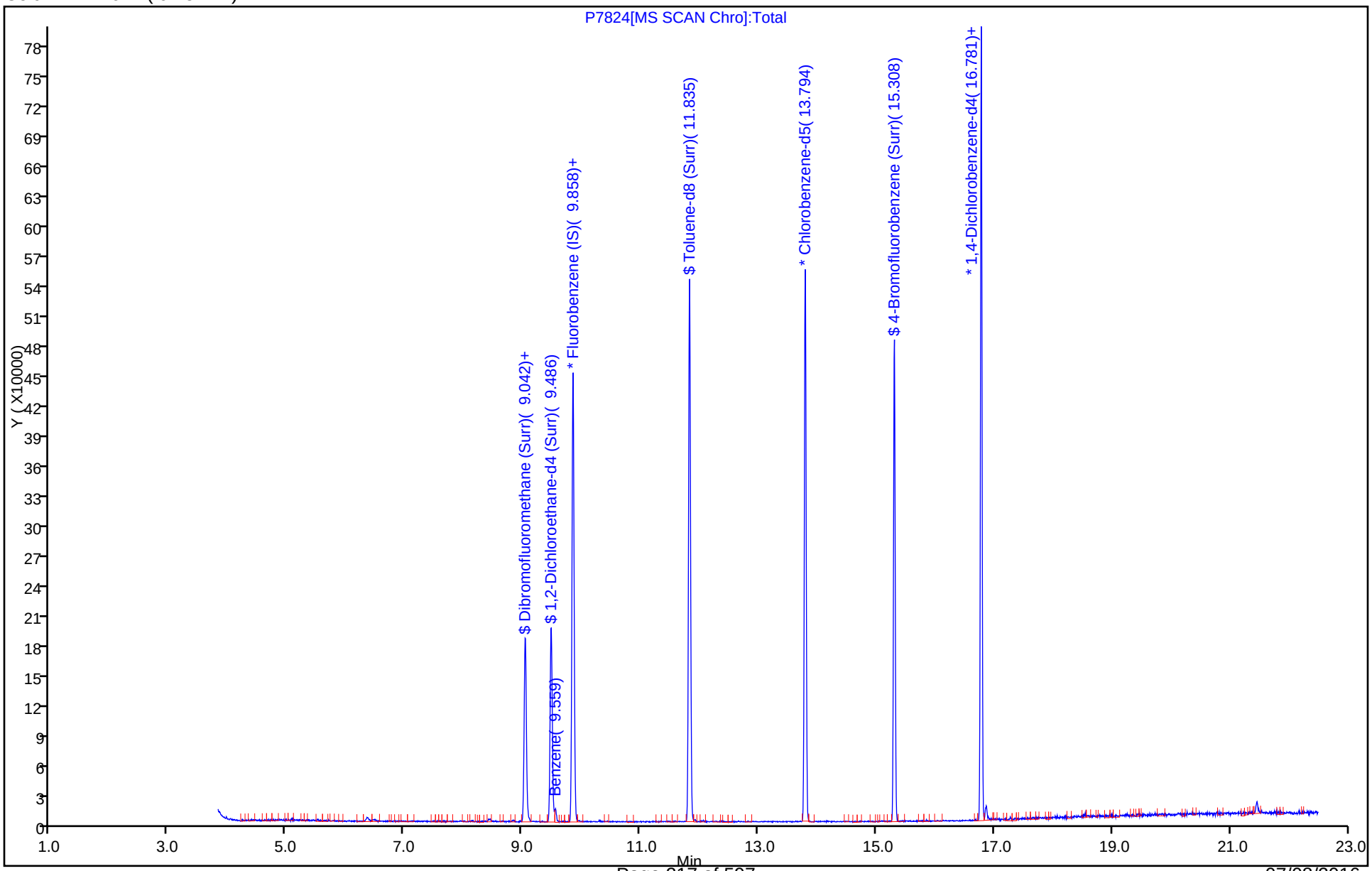
Report Date: 07-Jul-2016 08:01:24 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7824.D

Injection Date:	06-Jul-2016 06:15:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-11	Lab Sample ID:	480-102539-11	Worklist Smp#:	39
Client ID:	4009-16A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

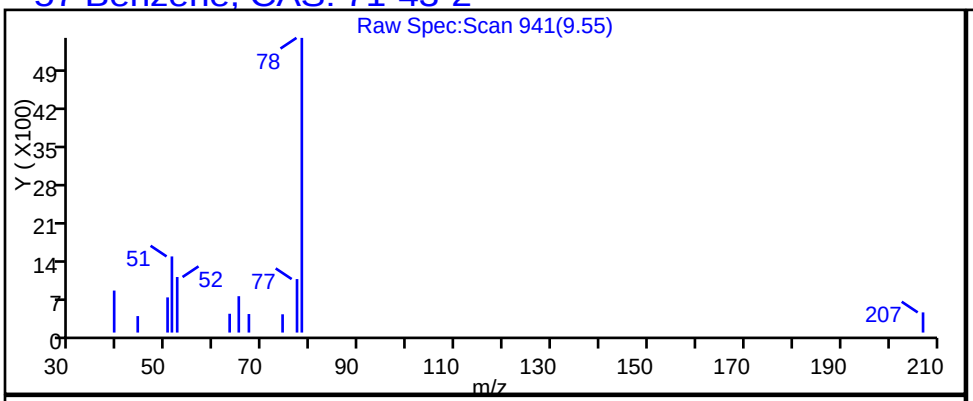
Column: ZB-624 (0.25 mm)

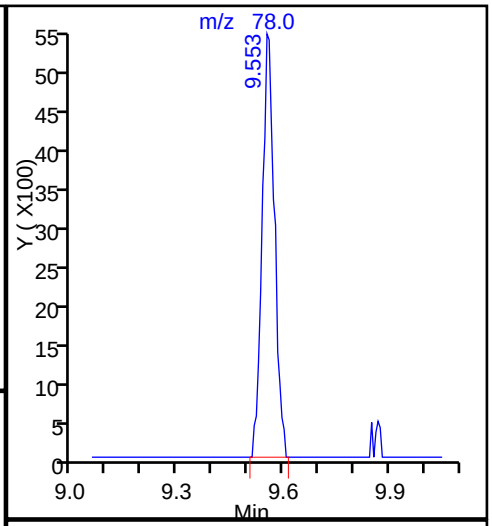


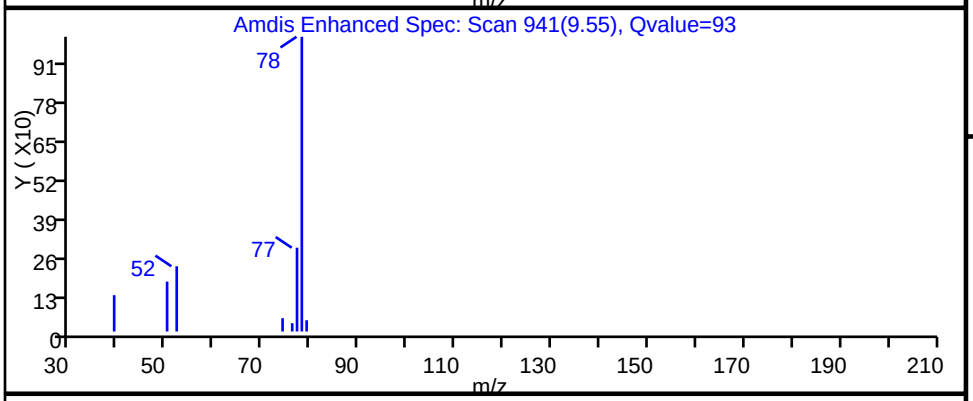
TestAmerica Buffalo

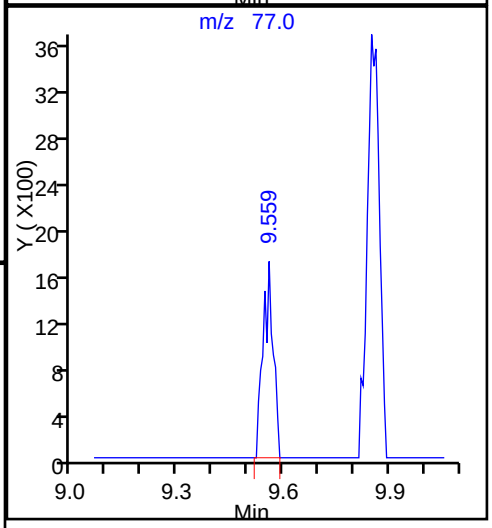
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7824.D				
Injection Date:	06-Jul-2016 06:15:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-11	Lab Sample ID:	480-102539-11		
Client ID:	4009-16A				
Operator ID:	SY	ALS Bottle#:	20	Worklist Smp#:	39
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

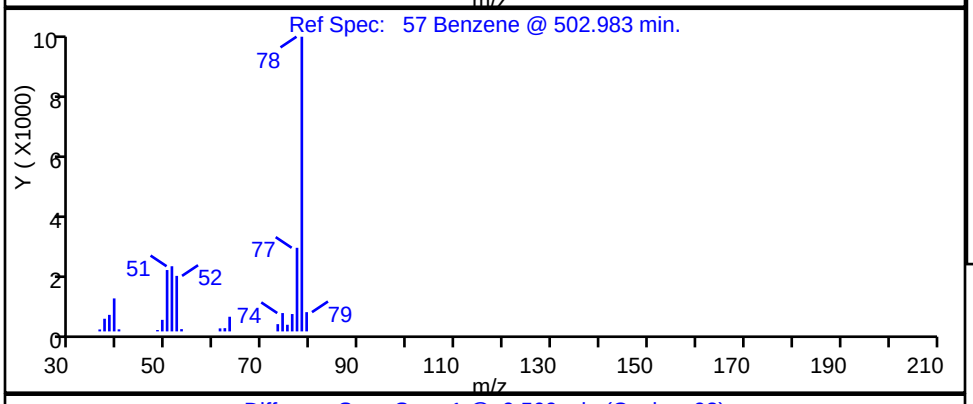
57 Benzene, CAS: 71-43-2

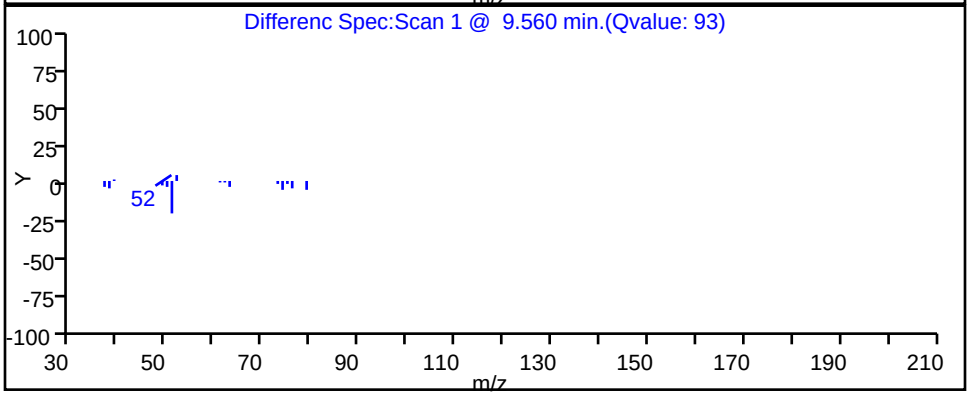












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-18 | Lab Sample ID: 480-102539-12

Matrix: Water | Lab File ID: P7825.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 06:42

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.83	J	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-18 | Lab Sample ID: 480-102539-12

Matrix: Water | Lab File ID: P7825.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 06:42

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7825.D
Lims ID: 480-102539-A-12
Client ID: 4009-18
Sample Type: Client
Inject. Date: 06-Jul-2016 06:42:30 ALS Bottle#: 21 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-12
Misc. Info.: 480-0054594-040
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:01:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	98148	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	202515	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	241868	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.043	-0.001	93	148450	26.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.005	0	91900	26.3	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	461871	23.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	92	169092	23.0	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	95	9571	0.8316	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.560	9.547	0.013	92	6035	0.2264	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

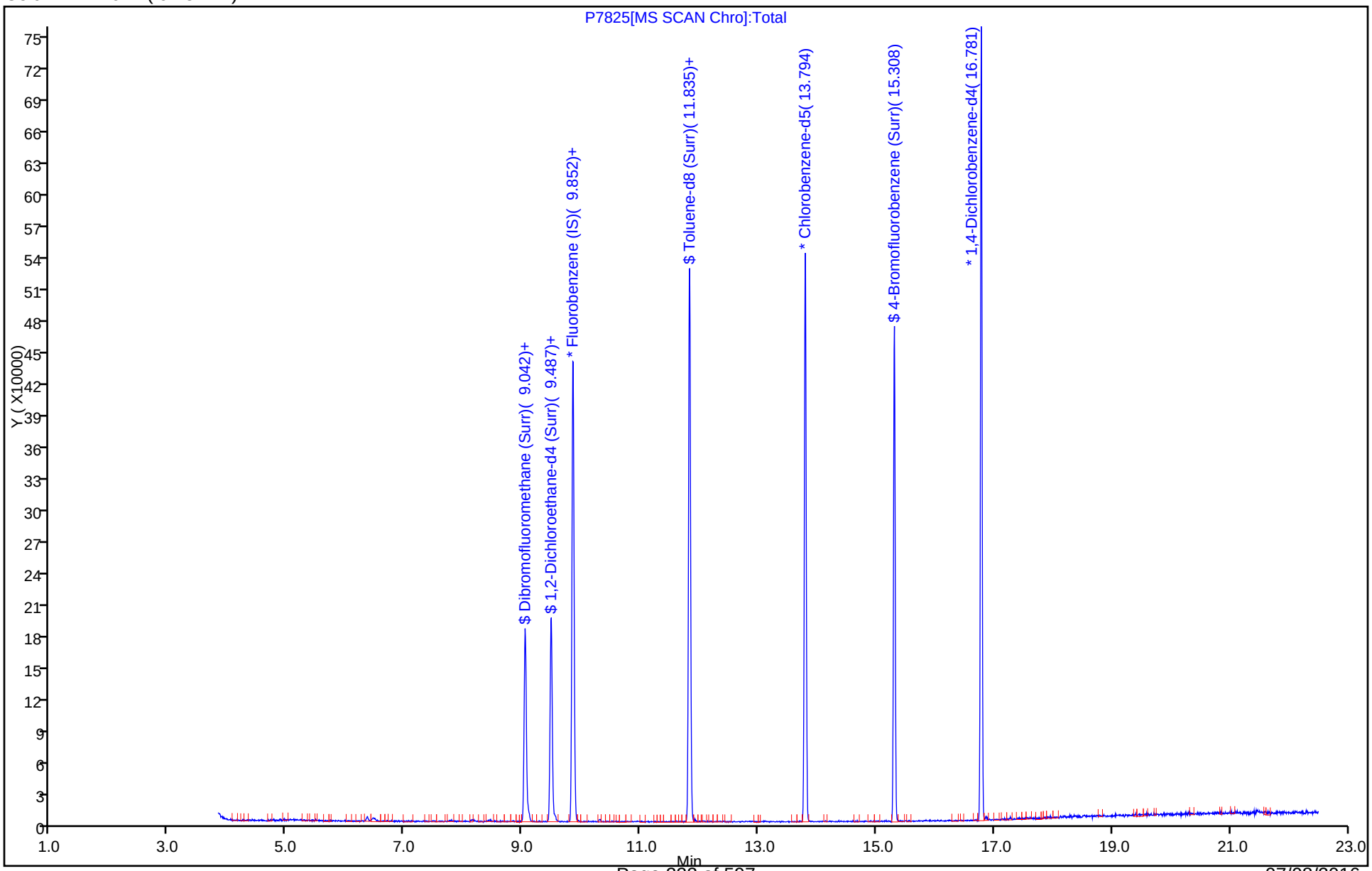
Report Date: 07-Jul-2016 08:01:29 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7825.D

Injection Date:	06-Jul-2016 06:42:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-12	Lab Sample ID:	480-102539-12	Worklist Smp#:	40
Client ID:	4009-18				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



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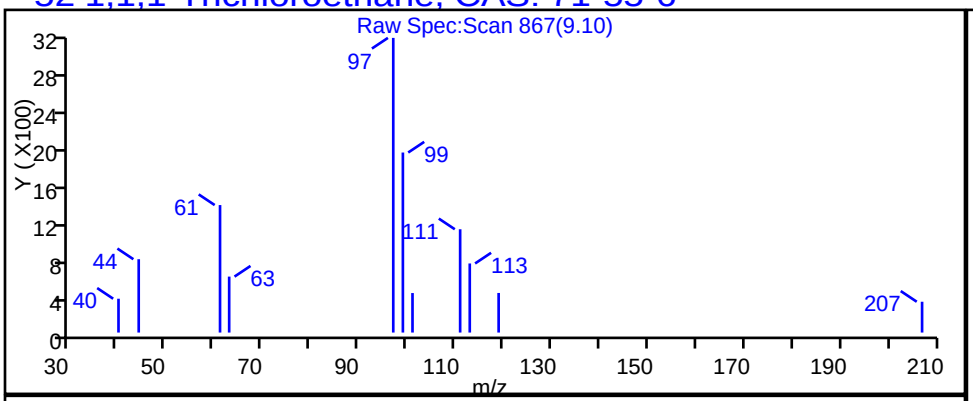
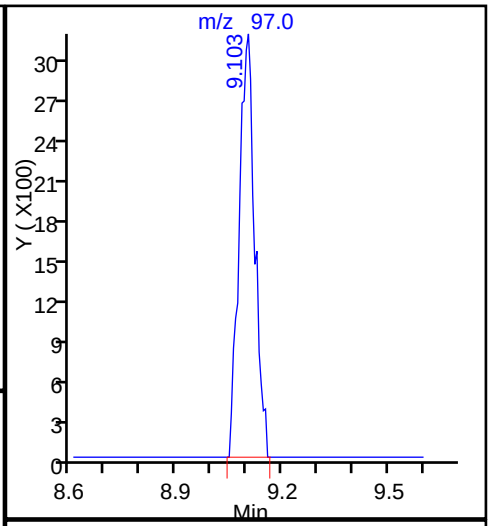
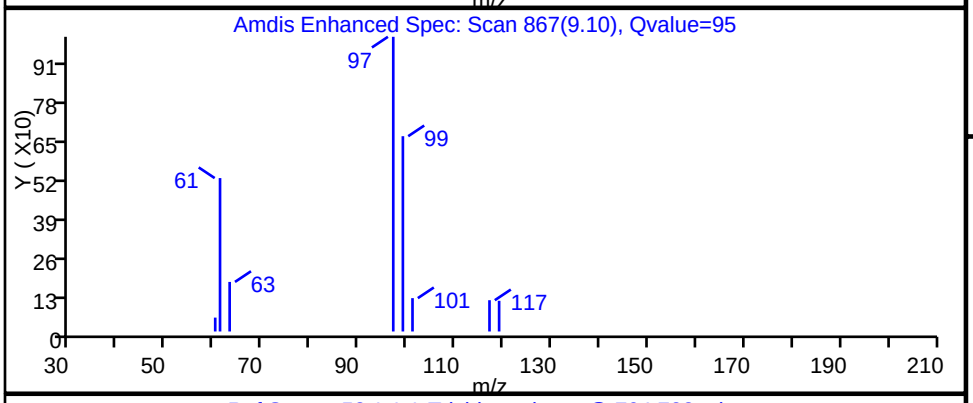
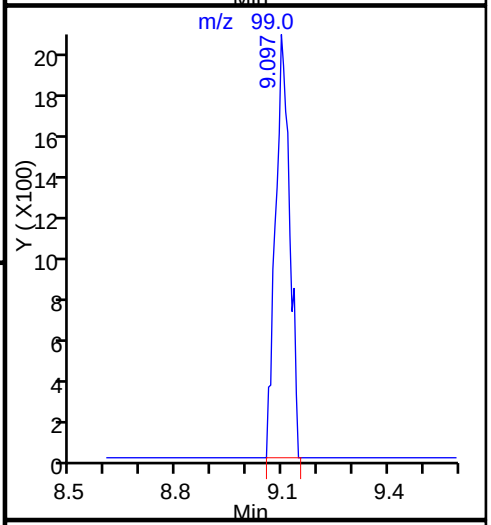
Injection Date: 06-Jul-2016 06:42:30 Instrument ID: HP5973P
Lims ID: 480-102539-A-12 Lab Sample ID: 480-102539-12
Client ID: 4009-18
Operator ID: SY ALS Bottle#: 21 Worklist Smp#: 40
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

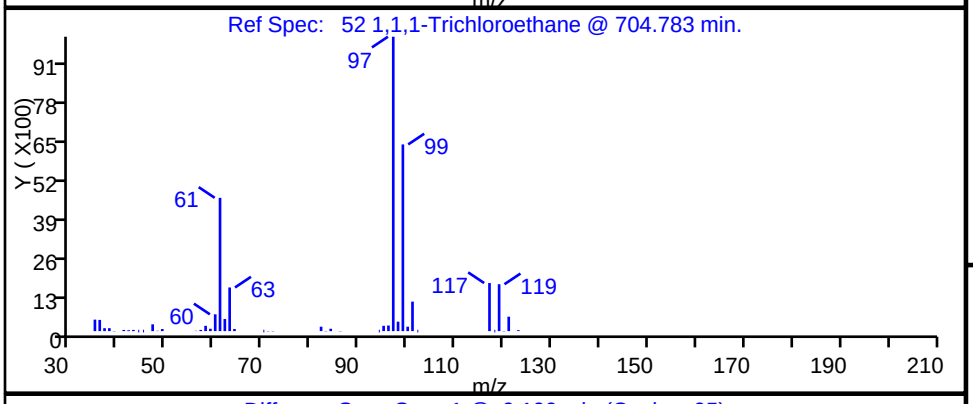
52 1,1,1-Trichloroethane, CAS: 71-55-6

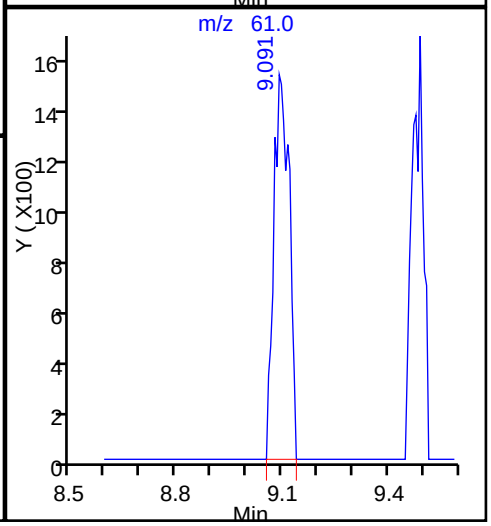


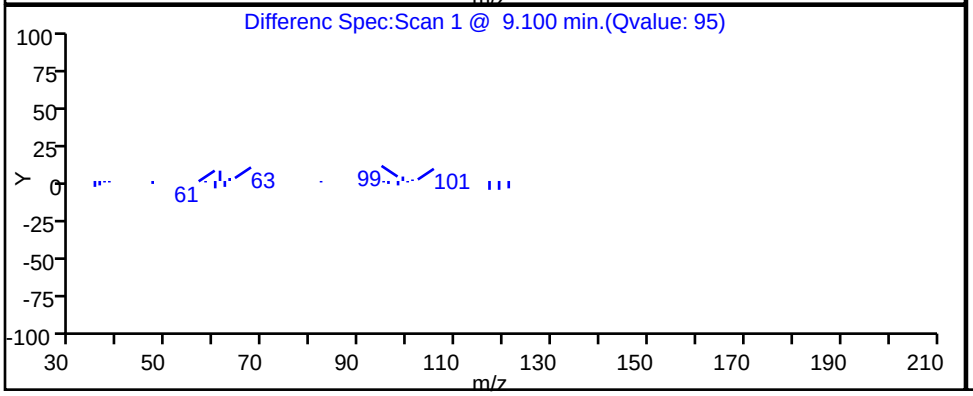












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-19 | Lab Sample ID: 480-102539-13

Matrix: Water | Lab File ID: P7826.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 07:09

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.: 309812 | 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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-19 | Lab Sample ID: 480-102539-13

Matrix: Water | Lab File ID: P7826.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 07:09

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7826.D
Lims ID: 480-102539-A-13
Client ID: 4009-19
Sample Type: Client
Inject. Date: 06-Jul-2016 07:09:30 ALS Bottle#: 22 Worklist Smp#: 41
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-13
Misc. Info.: 480-0054594-041
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:01:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	99588	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	201666	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	96	246685	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.043	0.006	92	152563	26.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	91988	25.9	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	468940	24.3	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	92	170317	23.2	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.547				ND	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

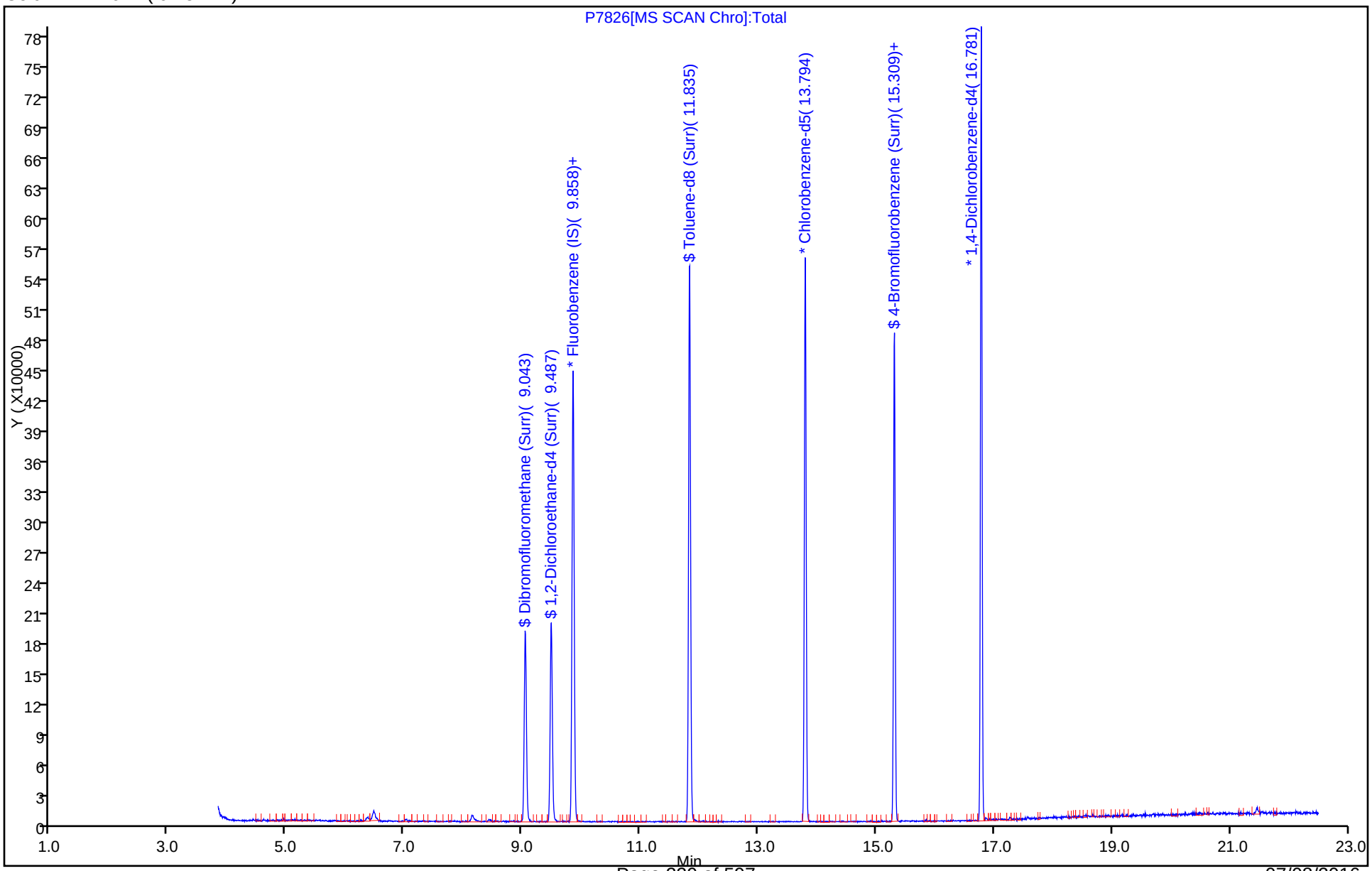
Report Date: 07-Jul-2016 08:01:35 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7826.D

Injection Date:	06-Jul-2016 07:09:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-13	Lab Sample ID:	480-102539-13	Worklist Smp#:	41
Client ID:	4009-19				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-21 | Lab Sample ID: 480-102539-14

Matrix: Water | Lab File ID: P7827.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 07:37

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.: 309812 | 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	21		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-21 | Lab Sample ID: 480-102539-14

Matrix: Water | Lab File ID: P7827.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 07:37

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7827.D
Lims ID: 480-102539-A-14
Client ID: 4009-21
Sample Type: Client
Inject. Date: 06-Jul-2016 07:37:30 ALS Bottle#: 23 Worklist Smp#: 42
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-14
Misc. Info.: 480-0054594-042
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:01:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	98815	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	199876	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	244626	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.043	0.006	93	148408	26.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.481	0.000	0	92400	26.2	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	453564	23.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	95	169396	23.3	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.554	9.547	0.007	98	562274	21.0	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

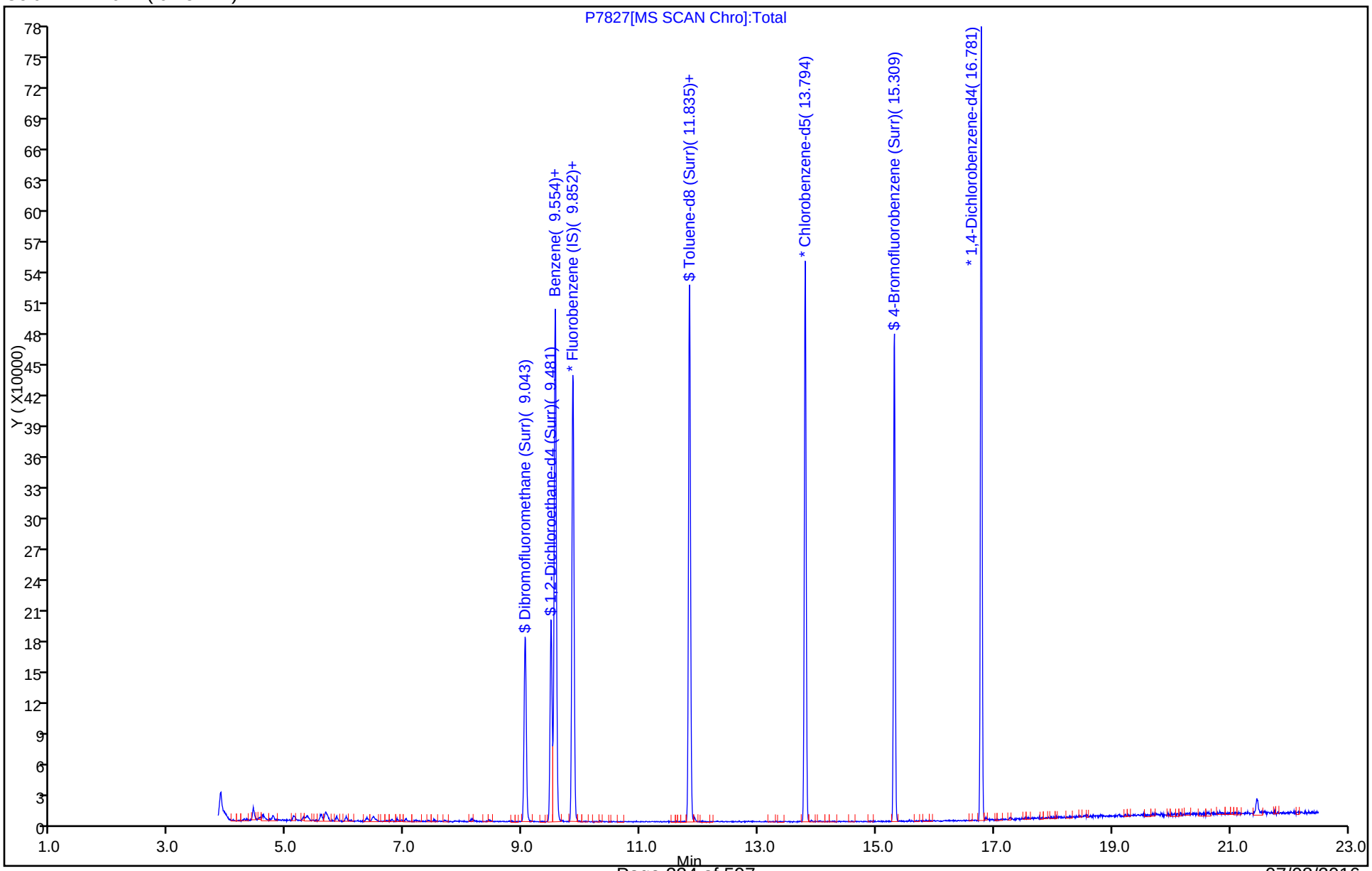
Report Date: 07-Jul-2016 08:01:39 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7827.D

Injection Date:	06-Jul-2016 07:37:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-14	Lab Sample ID:	480-102539-14	Worklist Smp#:	42
Client ID:	4009-21				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

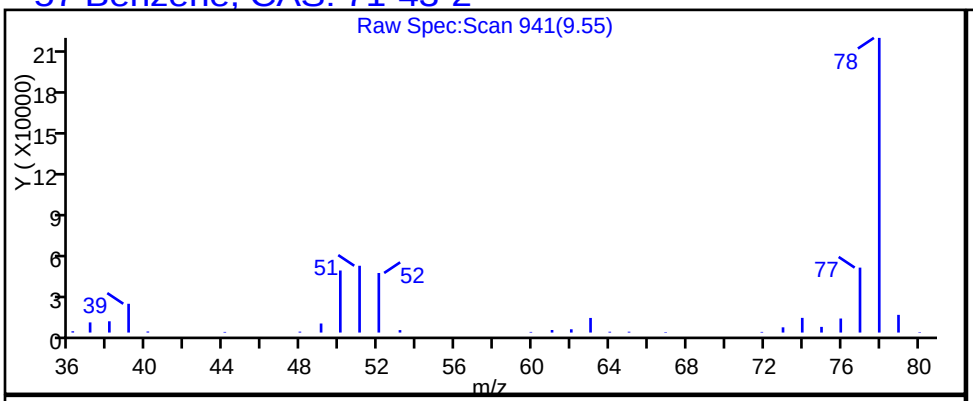
Column: ZB-624 (0.25 mm)

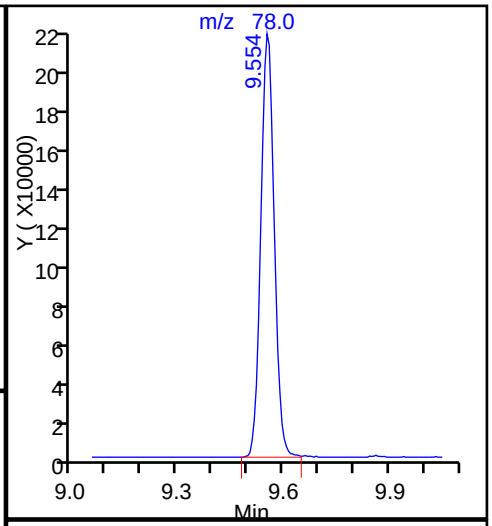


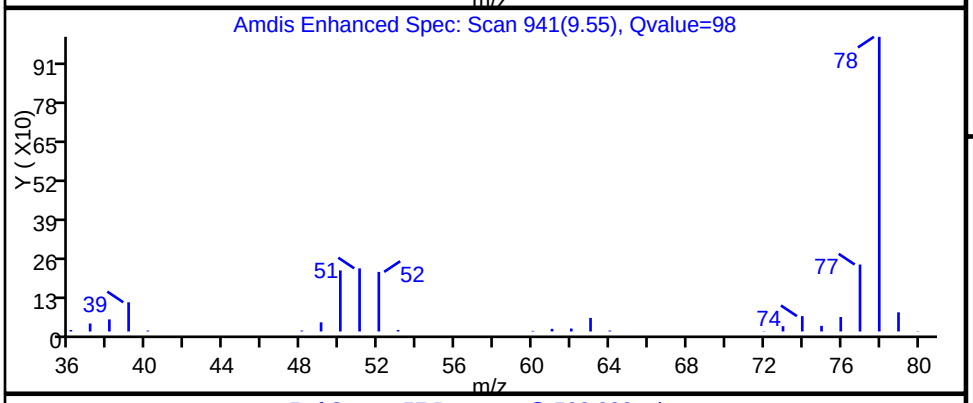
TestAmerica Buffalo

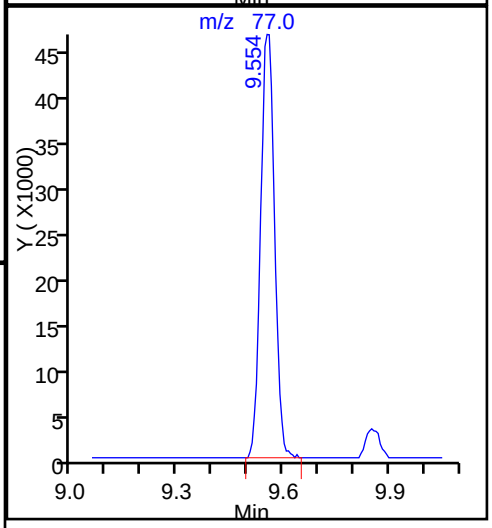
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7827.D				
Injection Date:	06-Jul-2016 07:37:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-14	Lab Sample ID:	480-102539-14		
Client ID:	4009-21				
Operator ID:	SY	ALS Bottle#:	23	Worklist Smp#:	42
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

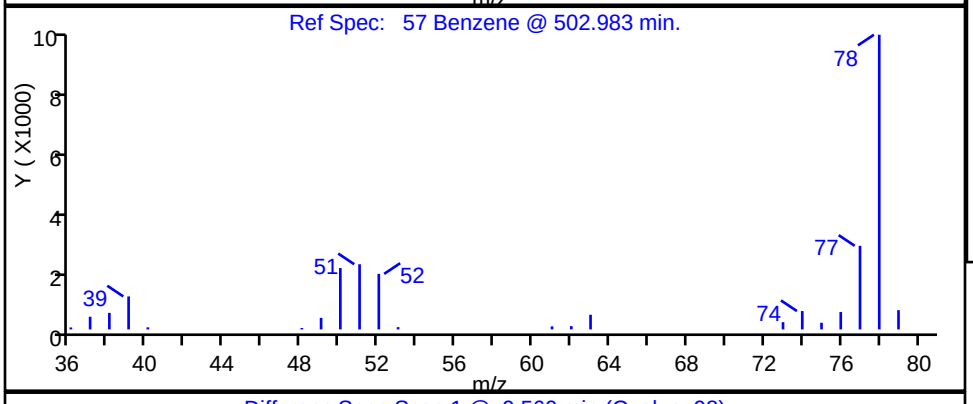
57 Benzene, CAS: 71-43-2

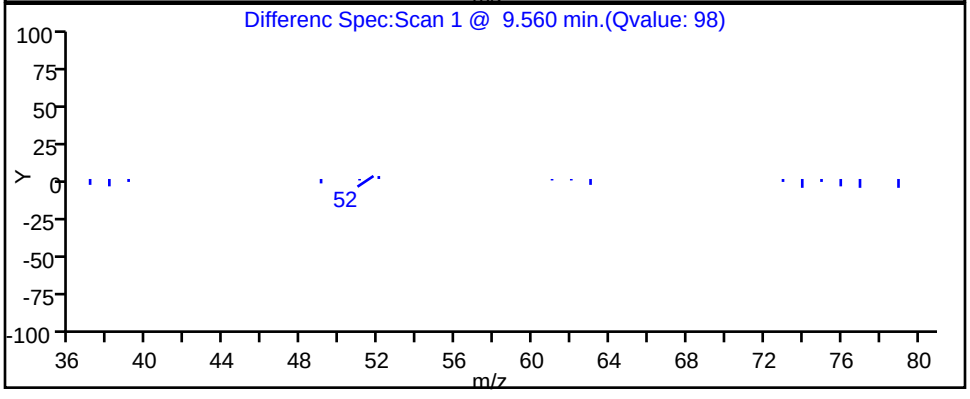












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-22 | Lab Sample ID: 480-102539-15

Matrix: Water | Lab File ID: P7828.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 08:04

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.: 309812 | 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	4.0	J	10	3.0
71-43-2	Benzene	1.3		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-22 | Lab Sample ID: 480-102539-15

Matrix: Water | Lab File ID: P7828.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 08:04

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	92		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7828.D
Lims ID: 480-102539-A-15
Client ID: 4009-22
Sample Type: Client
Inject. Date: 06-Jul-2016 08:04:30 ALS Bottle#: 24 Worklist Smp#: 43
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-15
Misc. Info.: 480-0054594-043
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:01:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	98347	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	203075	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	250806	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.043	0.006	92	147155	26.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	92048	26.3	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	448139	23.0	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	94	173749	23.5	
10 Dichlorodifluoromethane	85		4.017				ND	
11 Chloromethane	50		4.322				ND	
17 Vinyl chloride	62		4.553				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.360	6.354	0.006	95	13645	4.04	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.254				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.554	9.547	0.007	97	35185	1.32	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585				ND	
76 Toluene	92	11.926	11.920	0.006	97	12698	0.3984	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.461				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.674				ND	
81 Chlorodibromomethane	129		13.045				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.836				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.043				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.035				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.818				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277				ND	
119 1,2,4-Trichlorobenzene	180		19.354				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

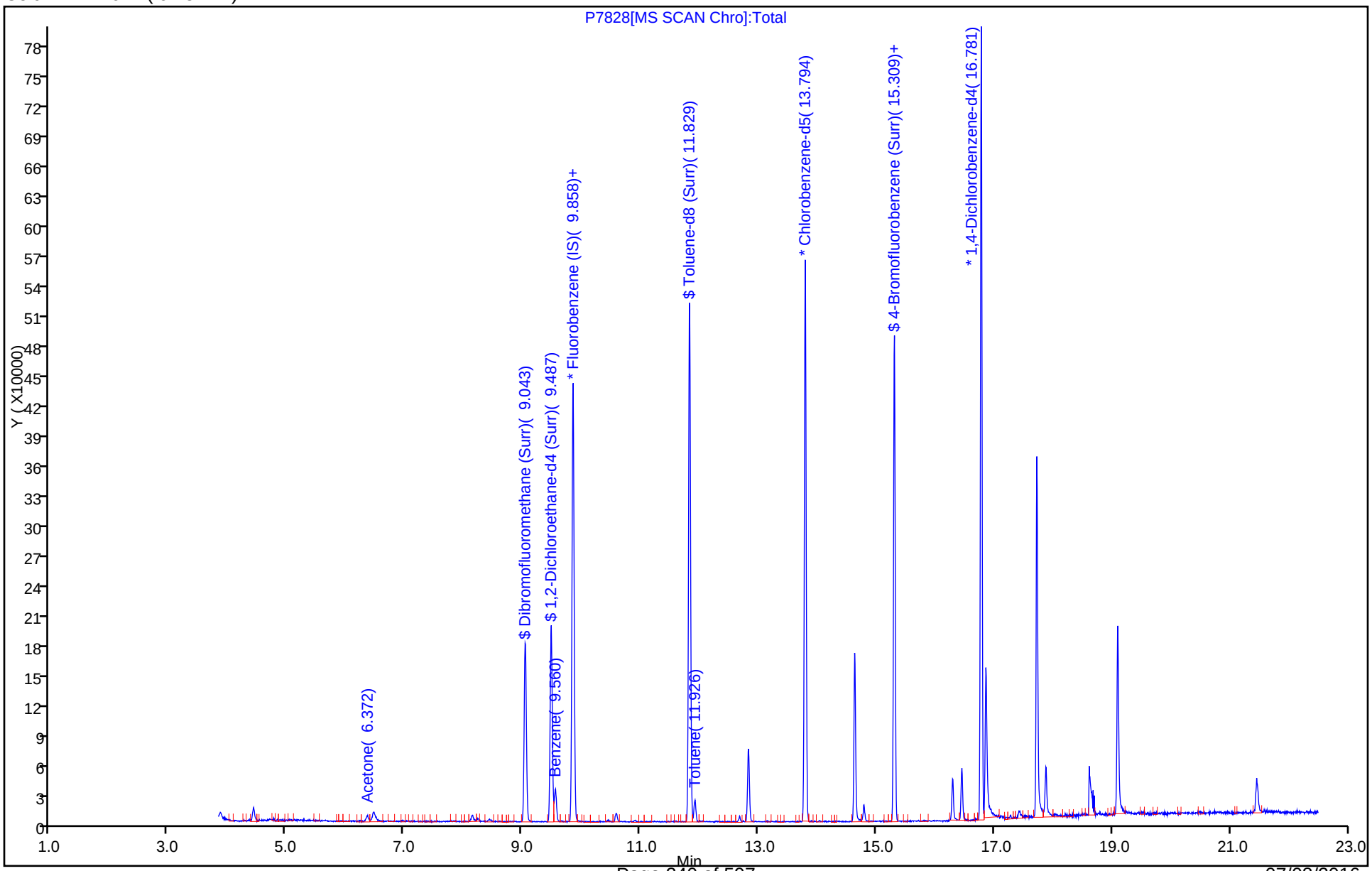
Report Date: 07-Jul-2016 08:01:45 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7828.D

Injection Date:	06-Jul-2016 08:04:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-15	Lab Sample ID:	480-102539-15	Worklist Smp#:	43
Client ID:	4009-22				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

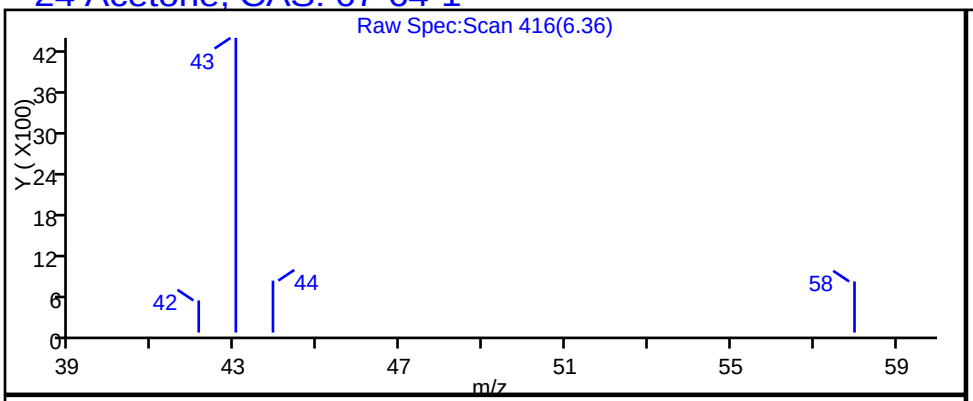


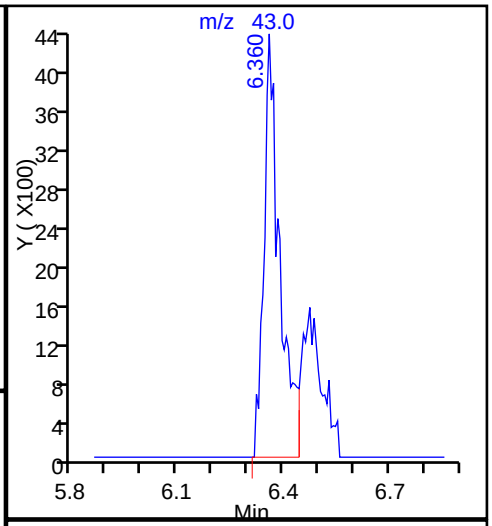
TestAmerica Buffalo

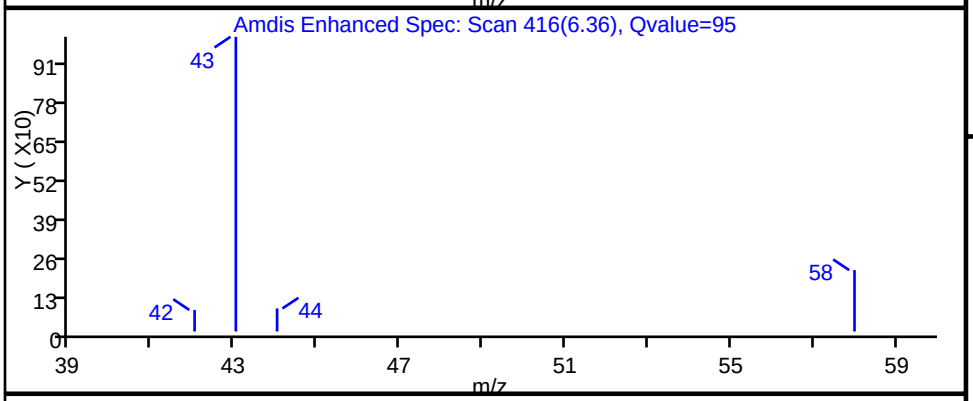
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7828.D

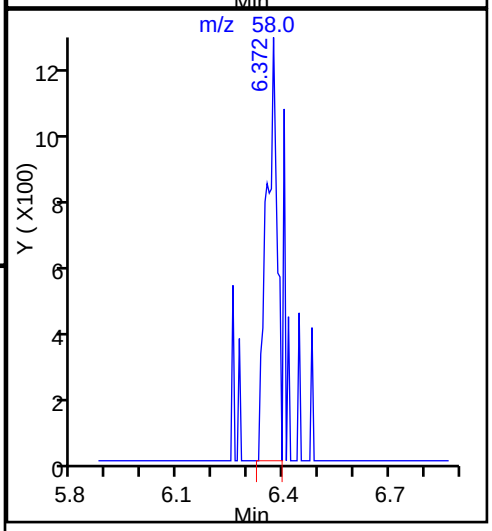
Injection Date:	06-Jul-2016 08:04:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-15	Lab Sample ID:	480-102539-15		
Client ID:	4009-22				
Operator ID:	SY	ALS Bottle#:	24	Worklist Smp#:	43
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

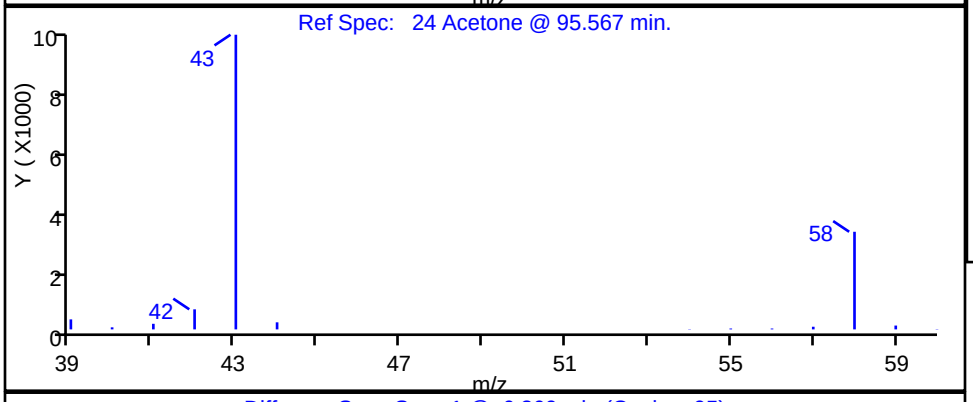
24 Acetone, CAS: 67-64-1

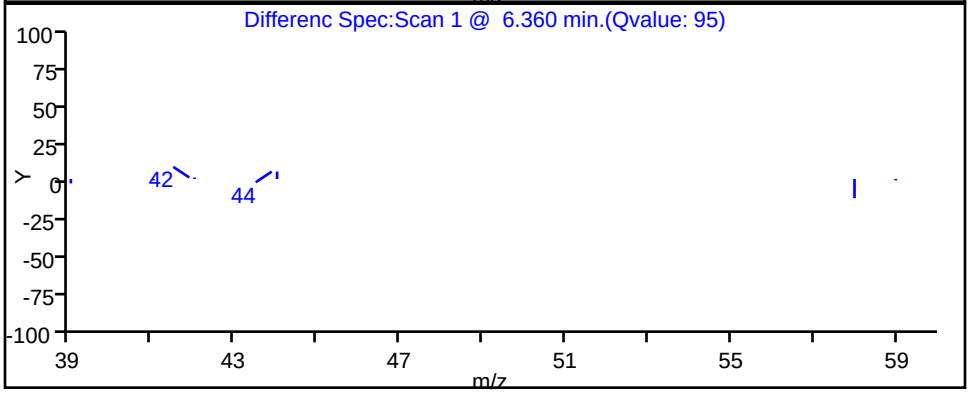








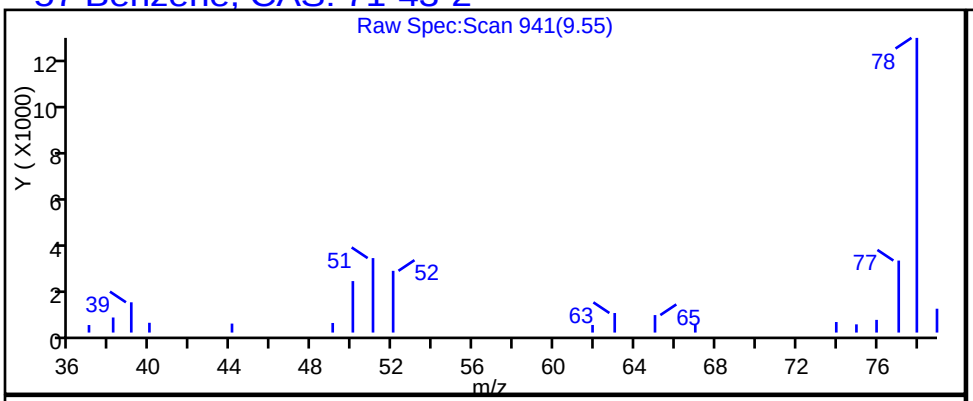


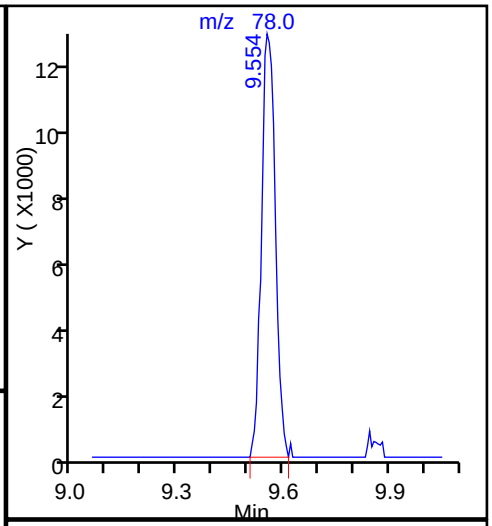


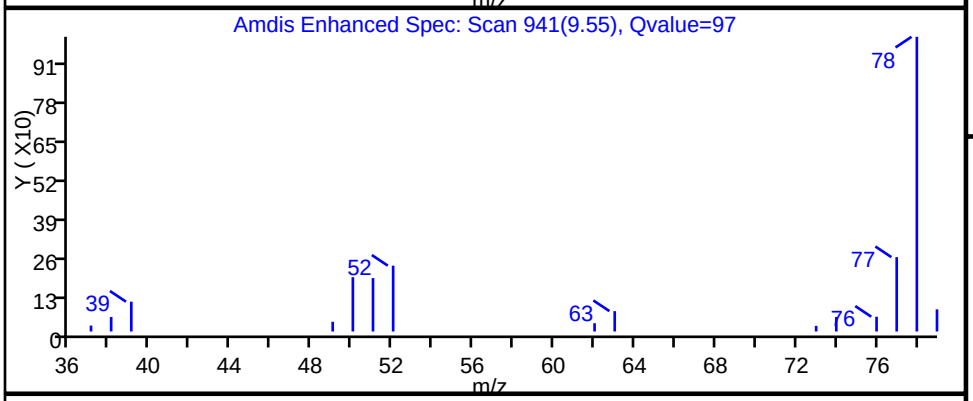
TestAmerica Buffalo

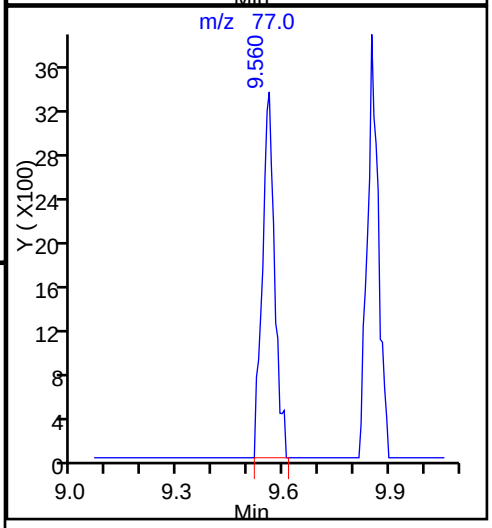
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7828.D				
Injection Date:	06-Jul-2016 08:04:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-15	Lab Sample ID:	480-102539-15		
Client ID:	4009-22				
Operator ID:	SY	ALS Bottle#:	24	Worklist Smp#:	43
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

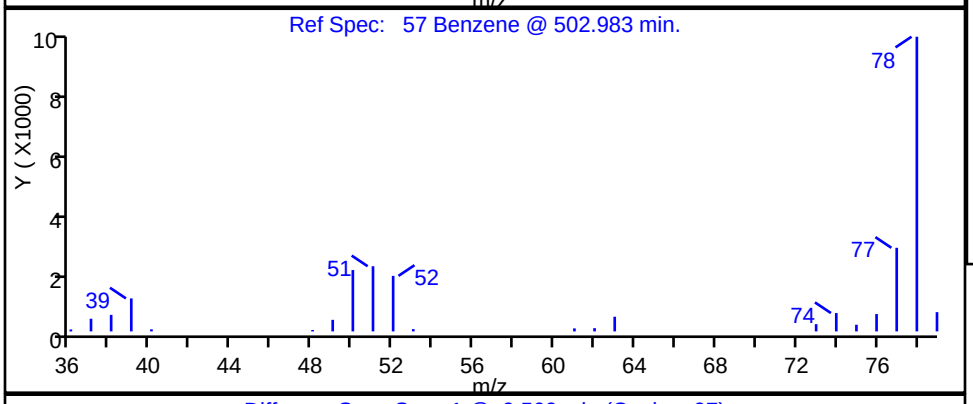
57 Benzene, CAS: 71-43-2

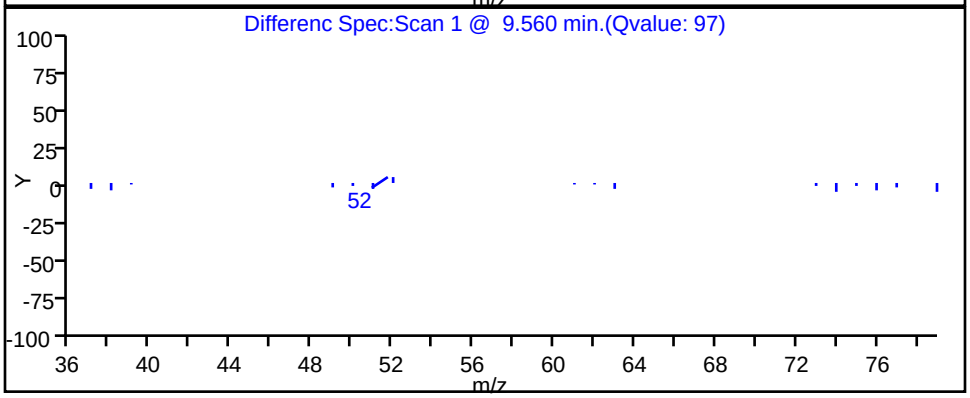












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-27S | Lab Sample ID: 480-102539-16

Matrix: Water | Lab File ID: P7841.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 14:03

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	54		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	2.7		1.0	0.31
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.23
75-34-3	1,1-Dichloroethane	2.1		1.0	0.38
75-35-4	1,1-Dichloroethene	5.0		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	20		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-27S | Lab Sample ID: 480-102539-16

Matrix: Water | Lab File ID: P7841.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 14:03

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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	23		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.2		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)	101		66-137
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		60-140
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7841.D
Lims ID: 480-102539-A-16
Client ID: 4009-27S
Sample Type: Client
Inject. Date: 06-Jul-2016 14:03:30 ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-16
Misc. Info.: 480-0054607-008
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:38:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.852	9.851	0.001	98	106917	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	217786	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	269528	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.042	0.000	93	152157	24.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.480	0.000	0	96091	25.2	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	511097	24.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.007	92	187535	23.7	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.528	4.547	-0.019	21	7247	1.19	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101	6.262	6.269	-0.007	90	21919	2.75	
25 1,1-Dichloroethene	96	6.317	6.311	0.006	94	35386	5.01	
24 Acetone	43	6.360	6.354	0.006	64	10038	2.74	7
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63	7.789	7.783	0.006	97	29992	2.07	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	83	166324	19.7	
49 Chloroform	83	8.836	8.836	0.000	50	2786	0.2079	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	98	675426	53.9	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.554				ND	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95	10.308	10.302	0.006	95	180565	22.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

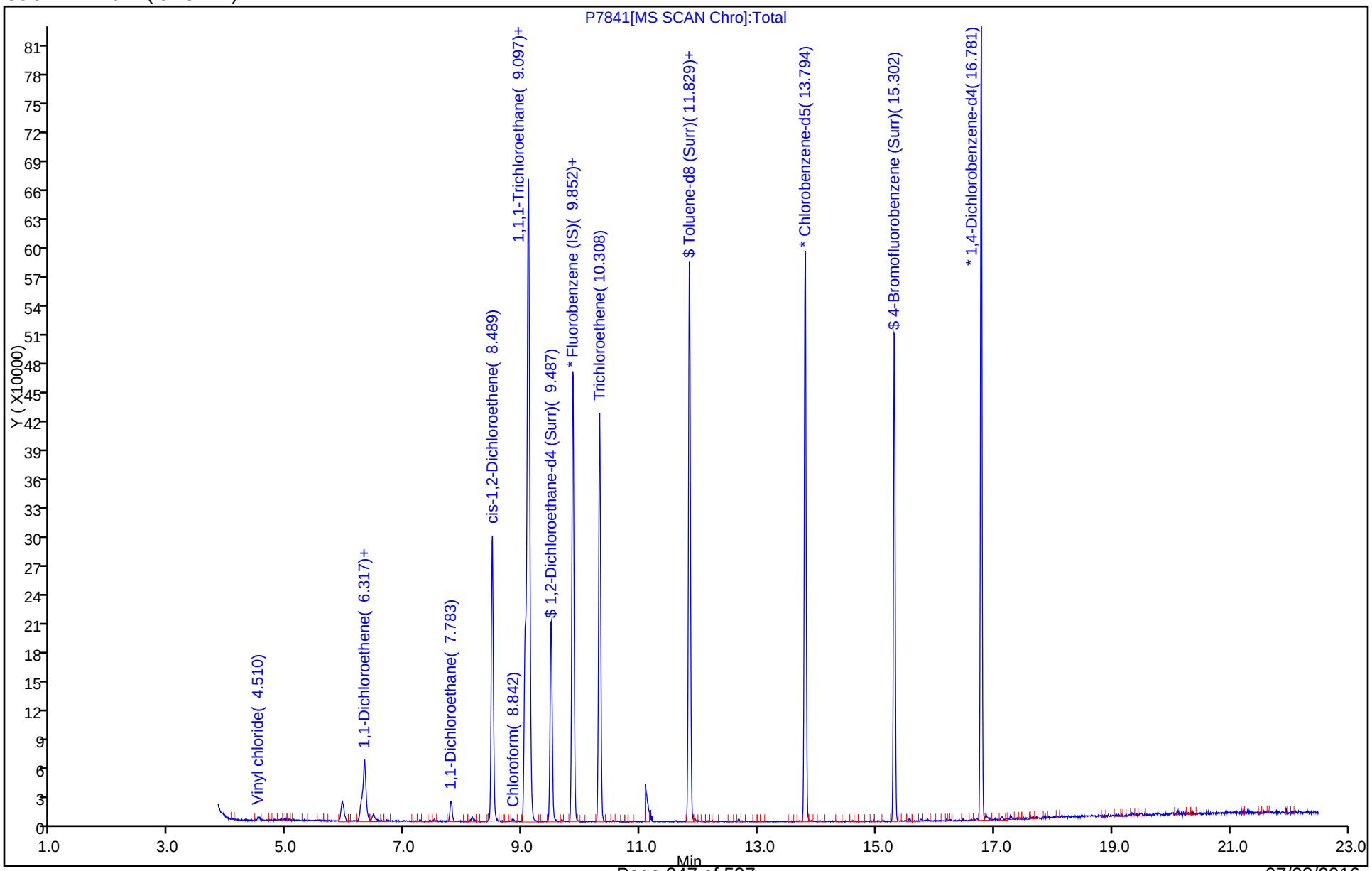
Report Date: 06-Jul-2016 21:38:33 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7841.D

Injection Date:	06-Jul-2016 14:03:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-16	Lab Sample ID:	480-102539-16	Worklist Smp#:	8
Client ID:	4009-27S				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



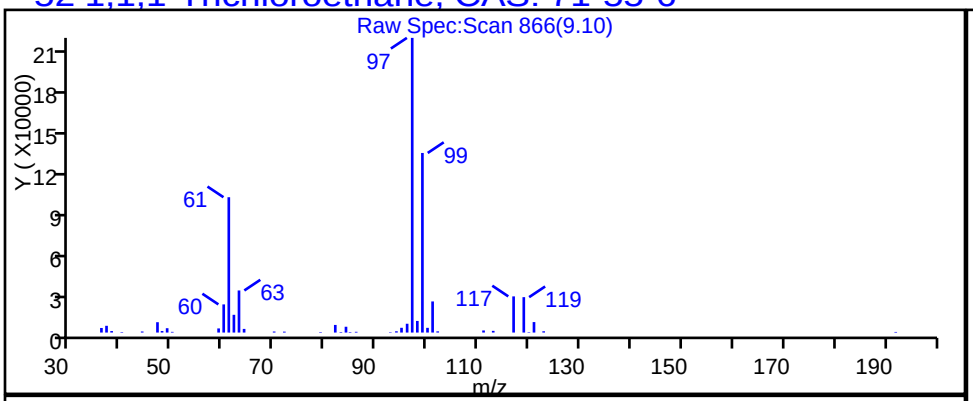
Report Date: 06-Jul-2016 21:38:33 Chrom Revision: 2.2 20-Apr-2016 13:59:46

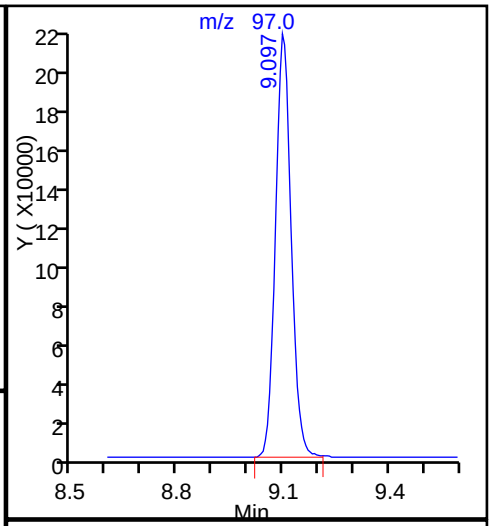
TestAmerica Buffalo

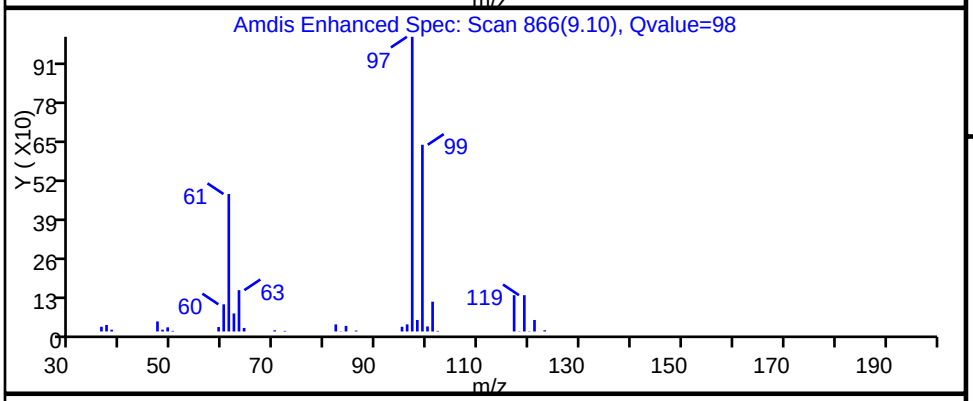
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7841.D

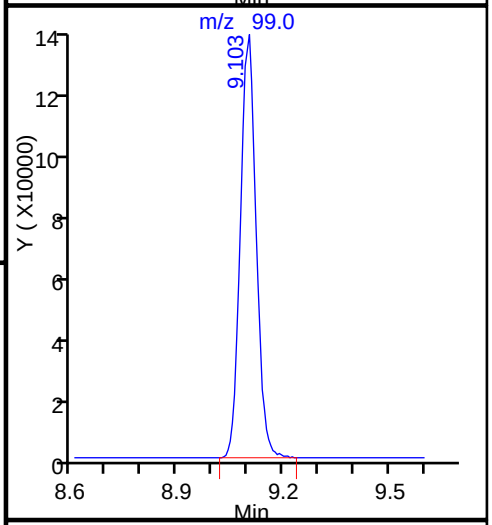
Injection Date:	06-Jul-2016 14:03:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-16	Lab Sample ID:	480-102539-16		
Client ID:	4009-27S				
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

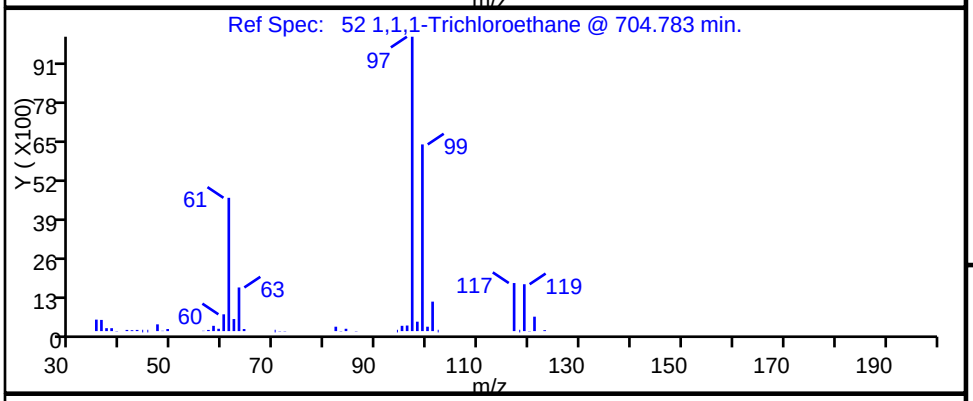
52 1,1,1-Trichloroethane, CAS: 71-55-6

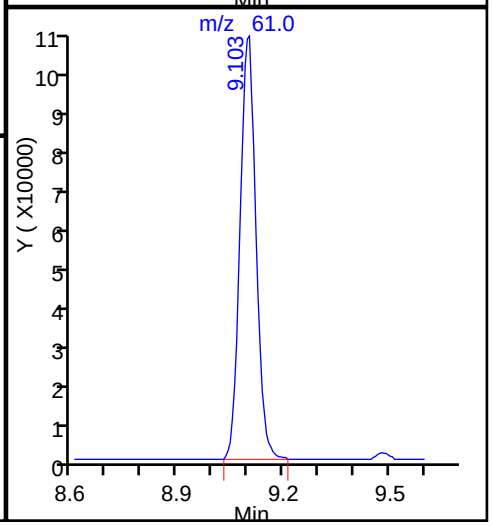


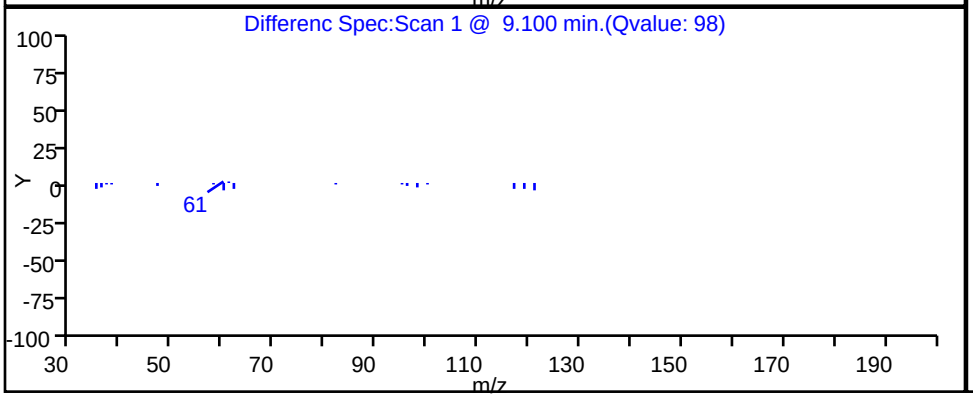












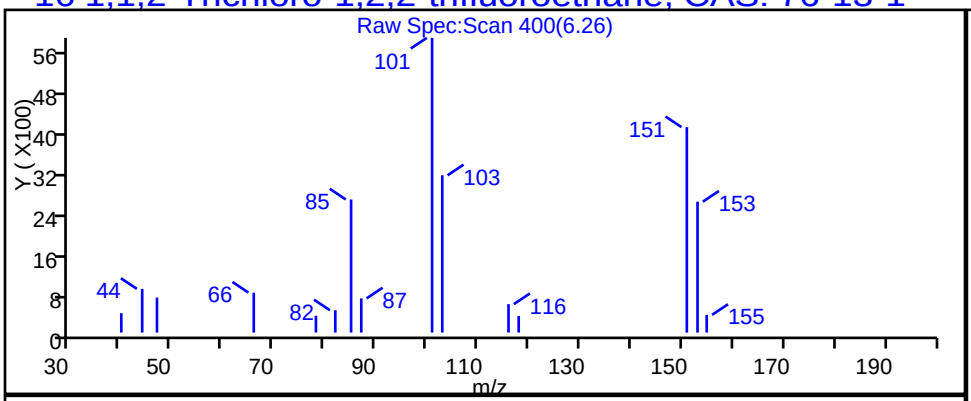
Report Date: 06-Jul-2016 21:38:33 Chrom Revision: 2.2 20-Apr-2016 13:59:46

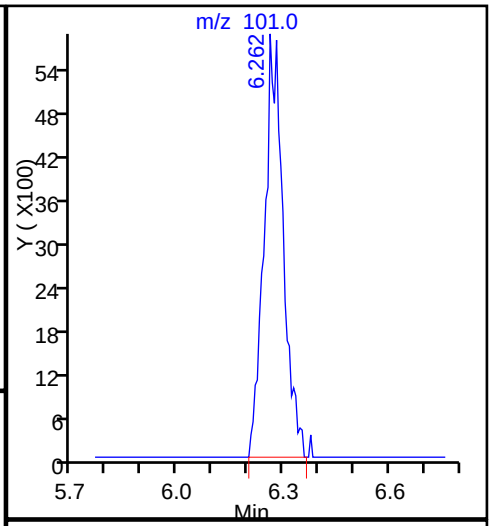
TestAmerica Buffalo

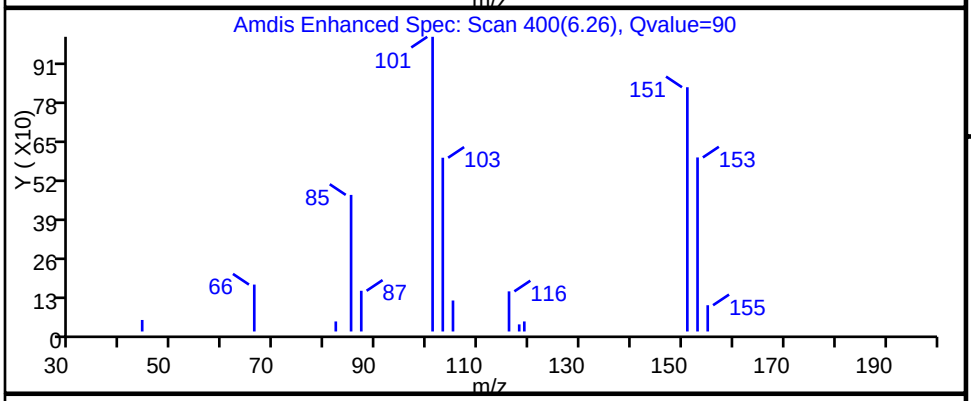
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7841.D

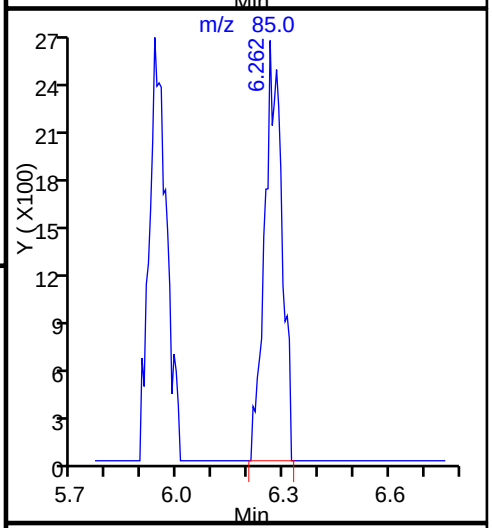
Injection Date:	06-Jul-2016 14:03:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-16	Lab Sample ID:	480-102539-16		
Client ID:	4009-27S				
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

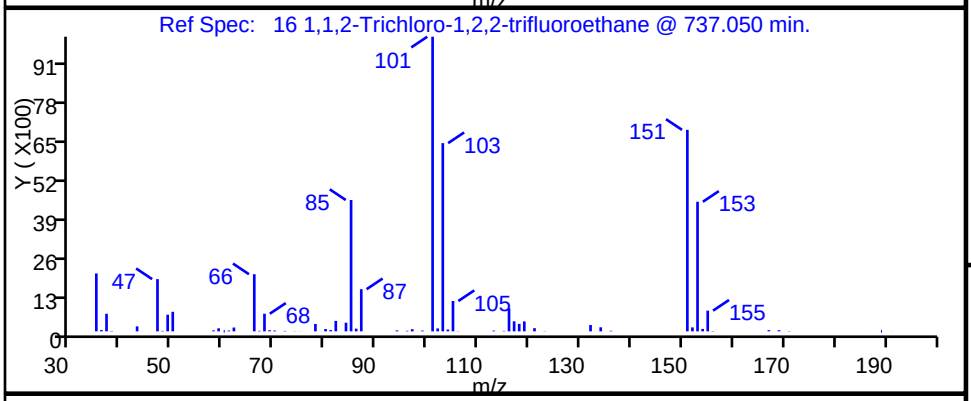
16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

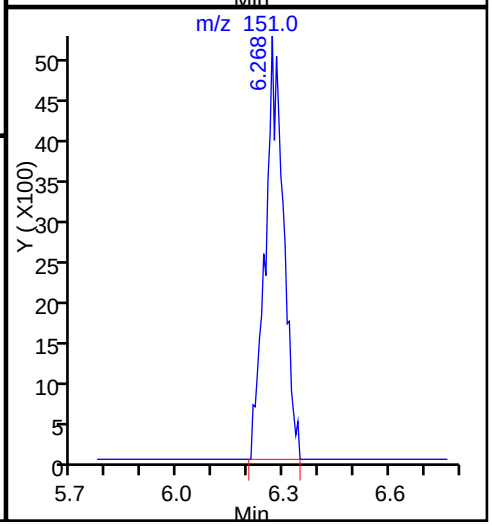


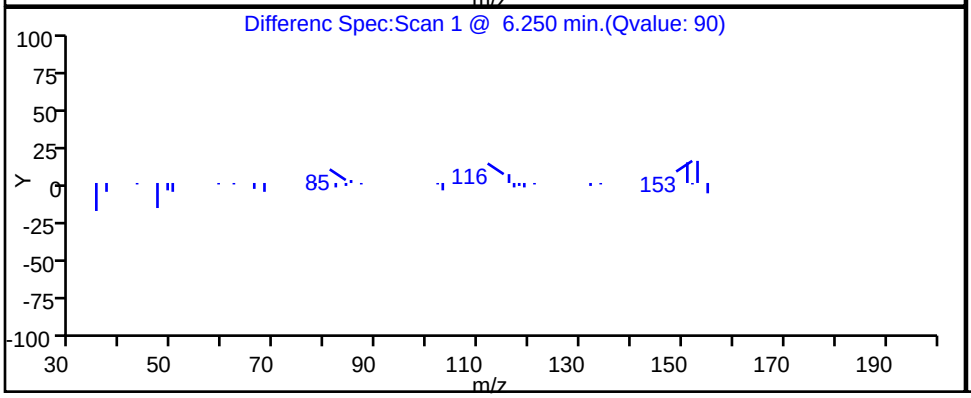










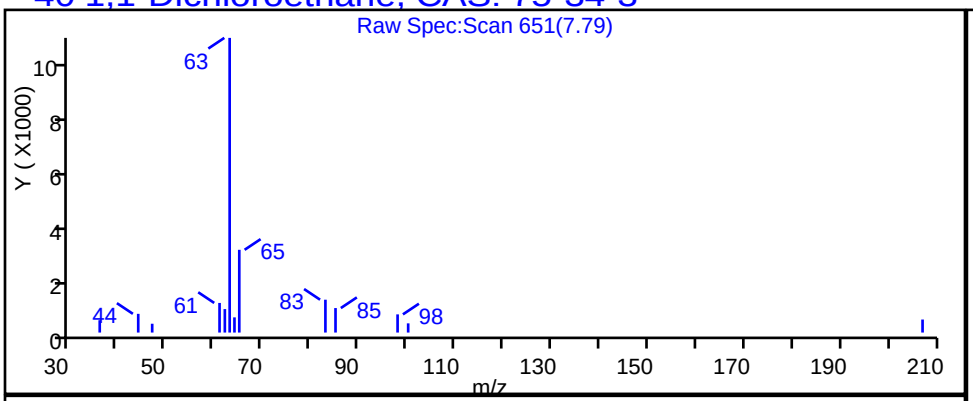


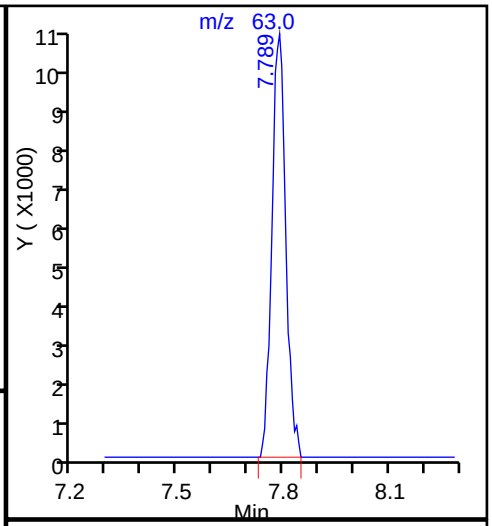
TestAmerica Buffalo

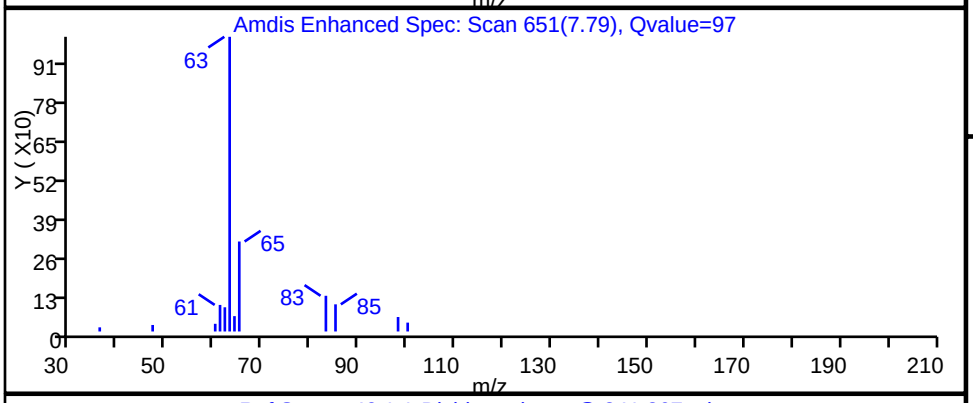
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7841.D

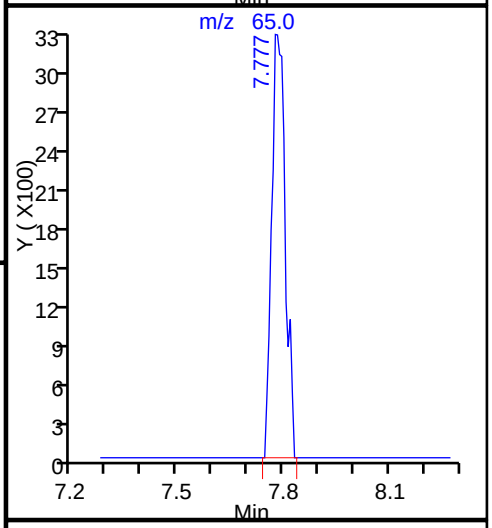
Injection Date:	06-Jul-2016 14:03:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-16	Lab Sample ID:	480-102539-16		
Client ID:	4009-27S				
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

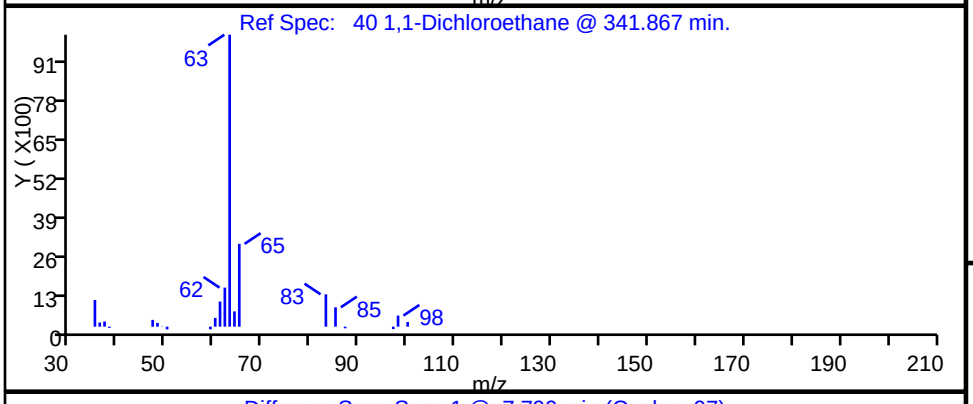
40 1,1-Dichloroethane, CAS: 75-34-3

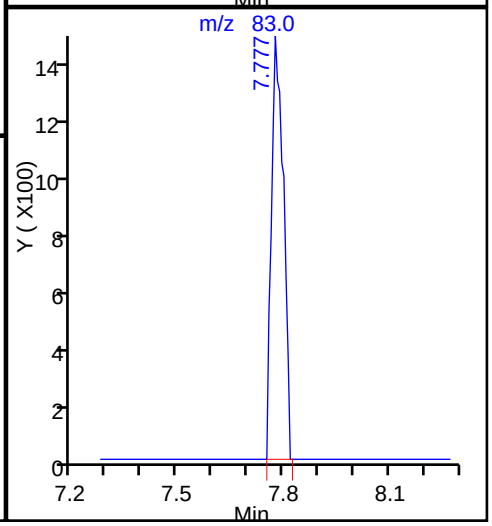


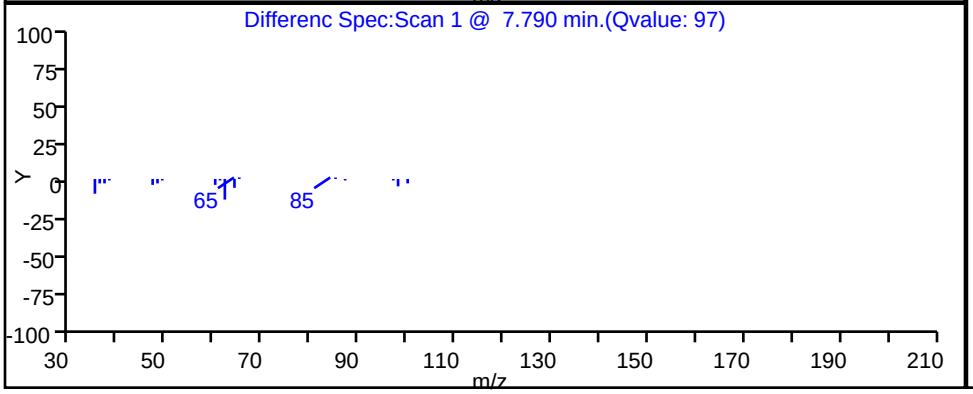








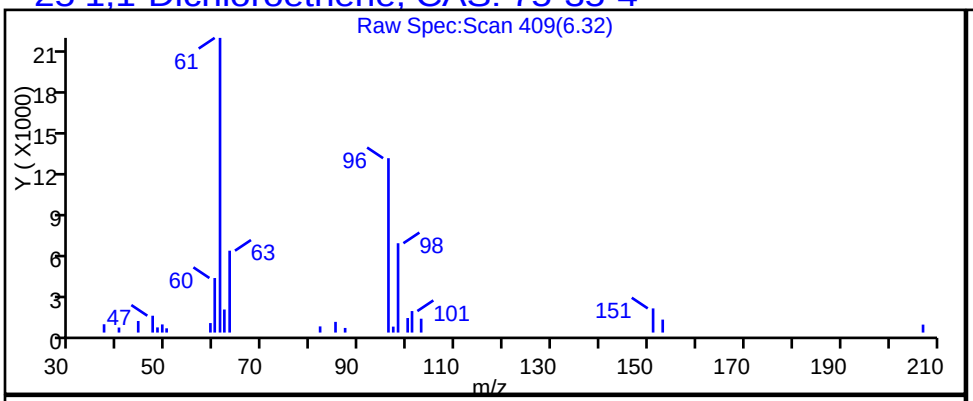


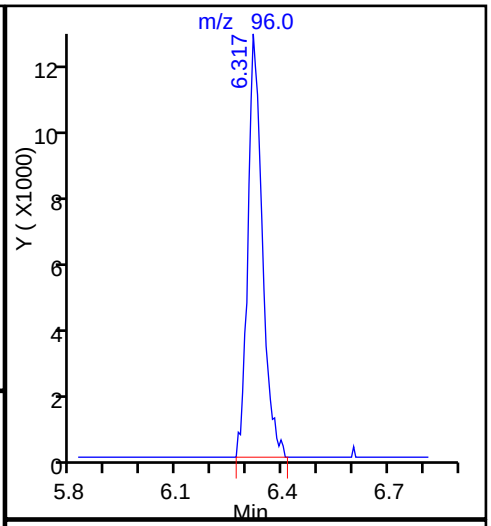


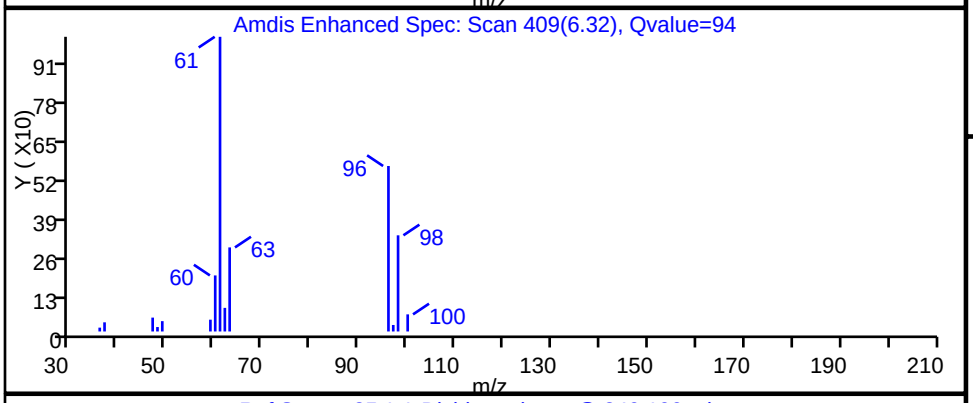
TestAmerica Buffalo

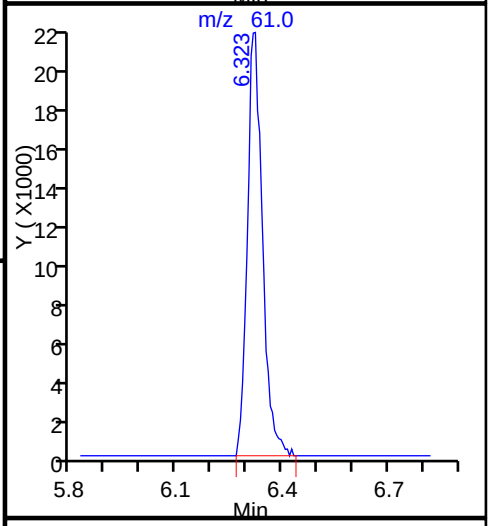
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7841.D				
Injection Date:	06-Jul-2016 14:03:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-16	Lab Sample ID:	480-102539-16		
Client ID:	4009-27S				
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

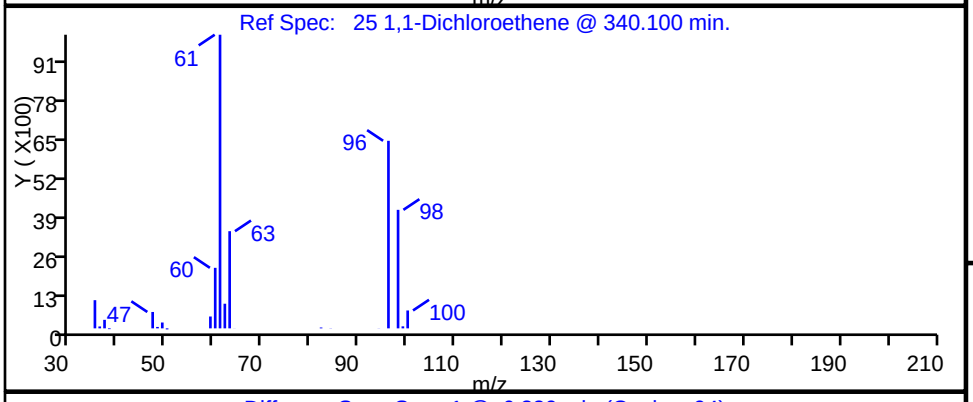
25 1,1-Dichloroethene, CAS: 75-35-4

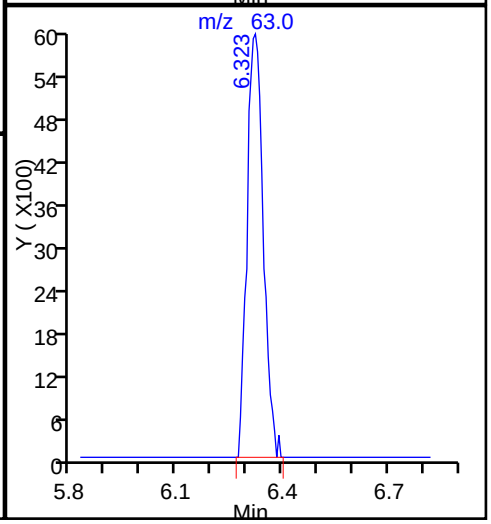


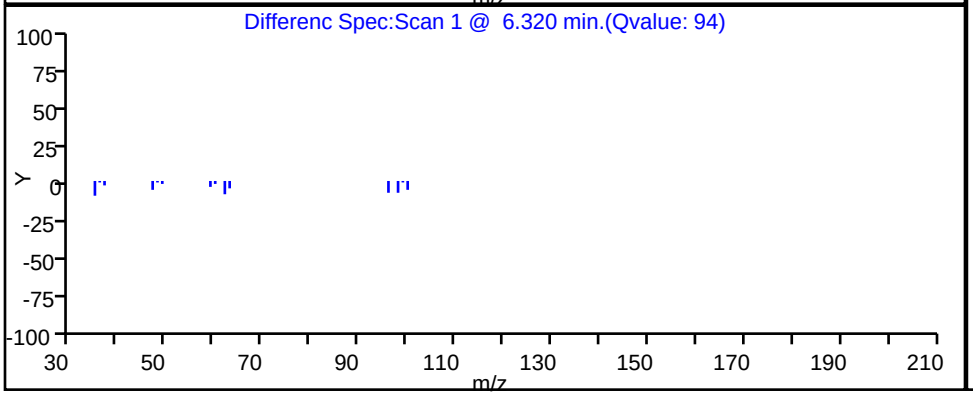






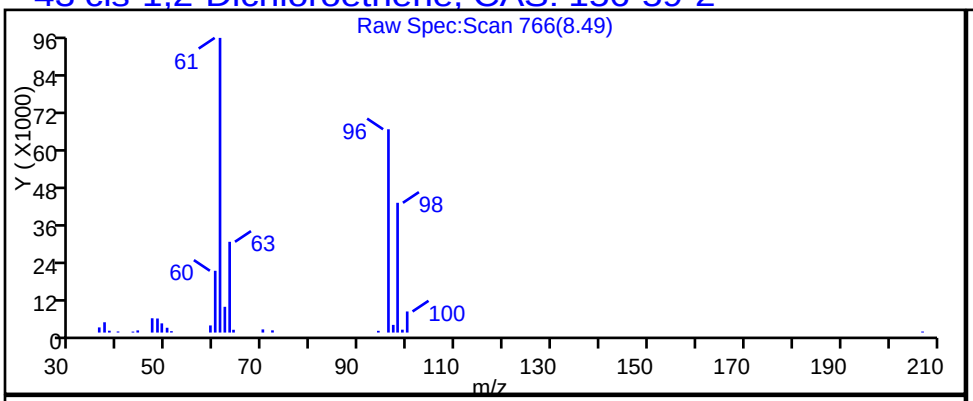


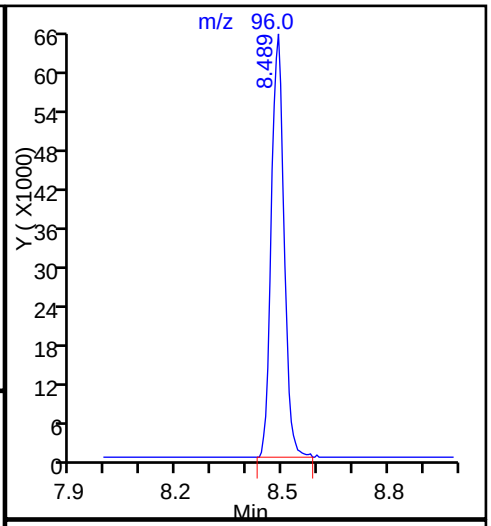


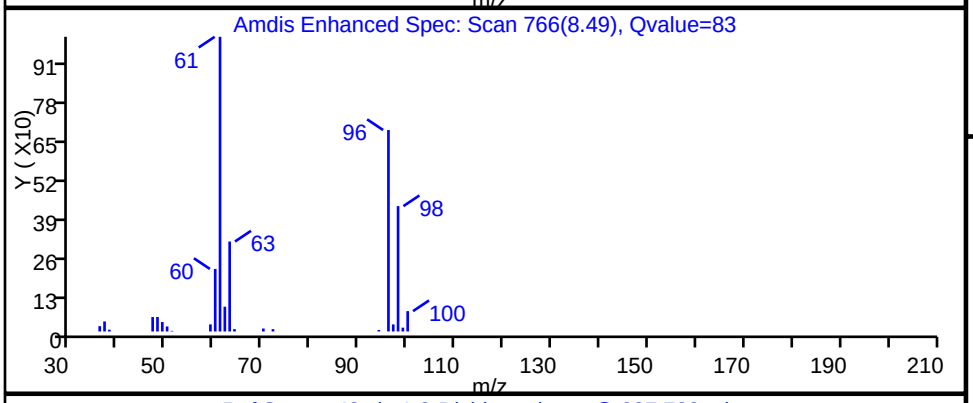


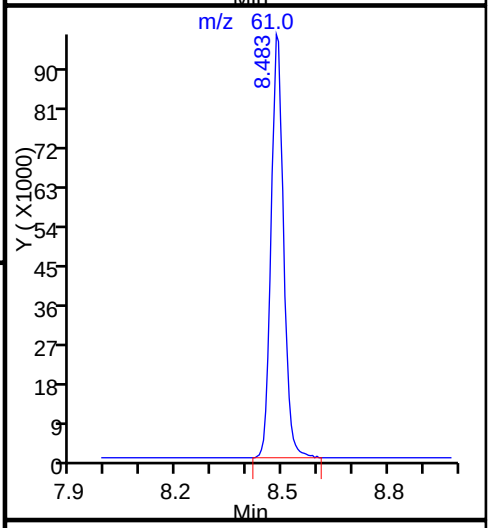
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7841.D
Injection Date: 06-Jul-2016 14:03:30 Instrument ID: HP5973P
Lims ID: 480-102539-A-16 Lab Sample ID: 480-102539-16
Client ID: 4009-27S
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

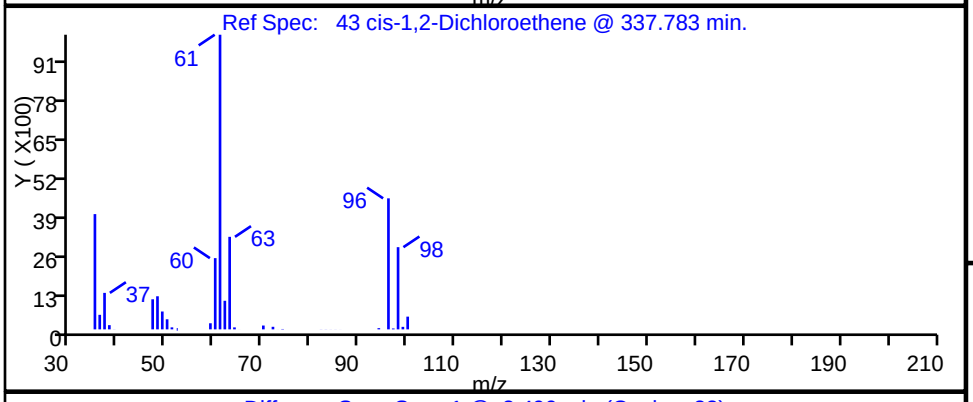
43 cis-1,2-Dichloroethene, CAS: 156-59-2

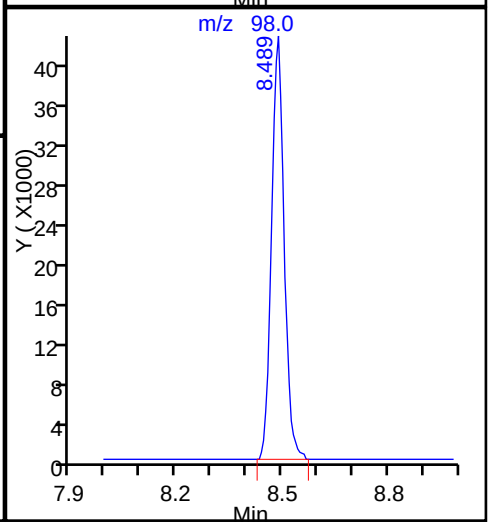


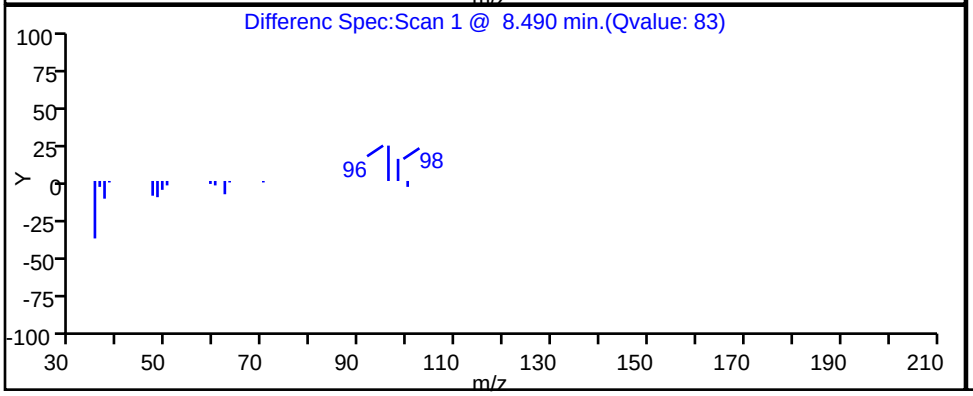








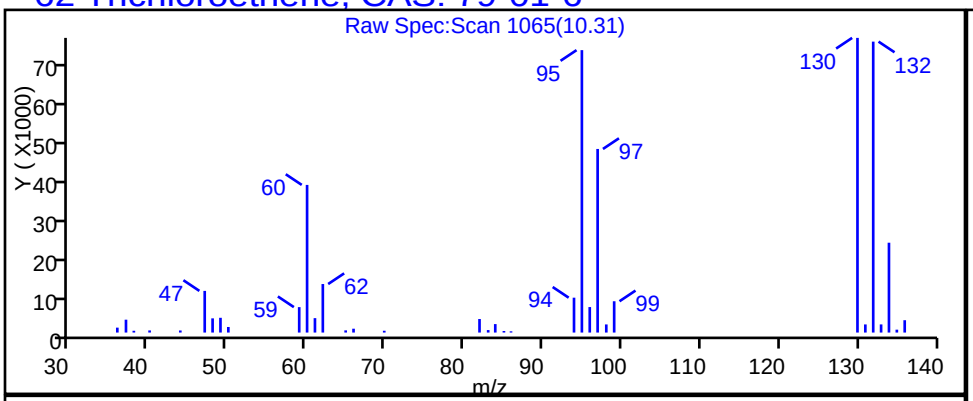


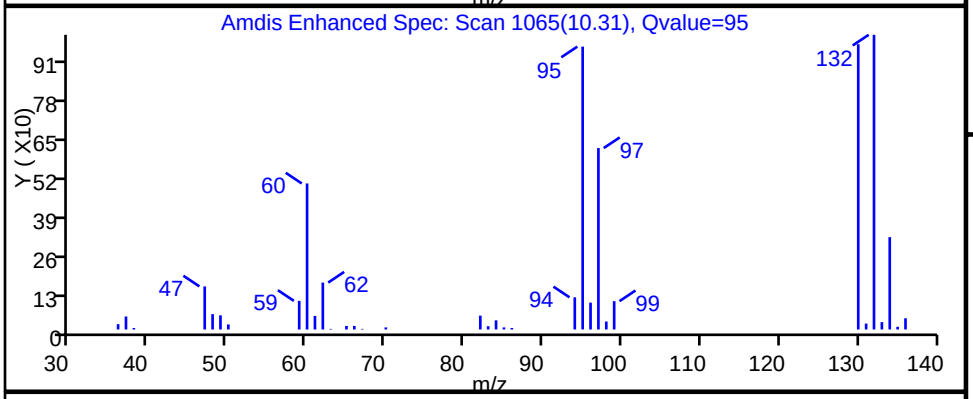


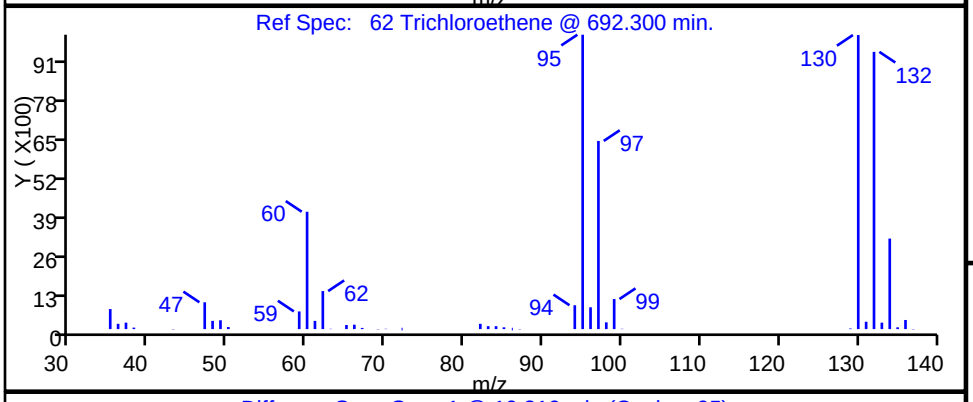
TestAmerica Buffalo

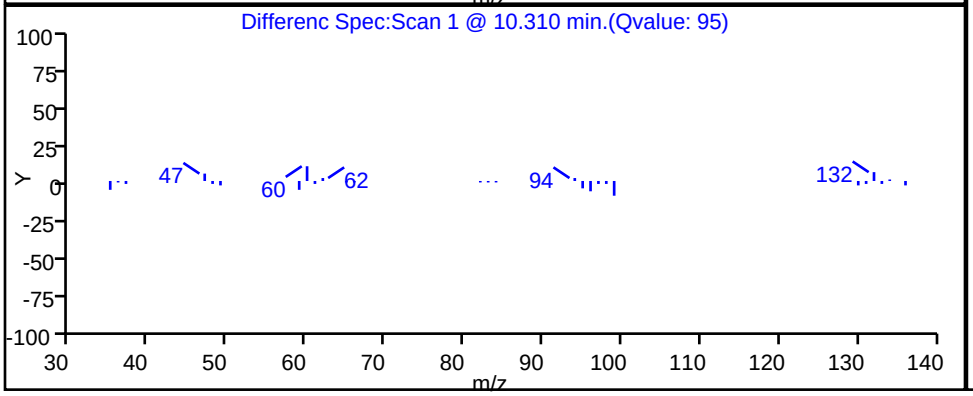
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7841.D				
Injection Date:	06-Jul-2016 14:03:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-16	Lab Sample ID:	480-102539-16		
Client ID:	4009-27S				
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

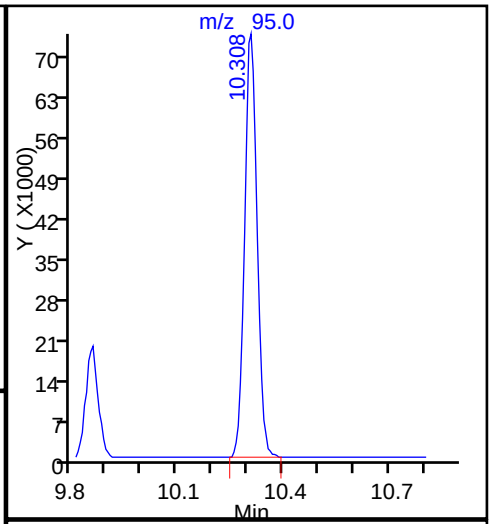
62 Trichloroethene, CAS: 79-01-6

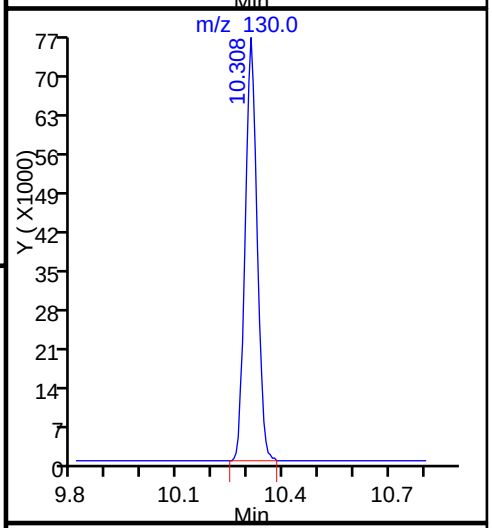


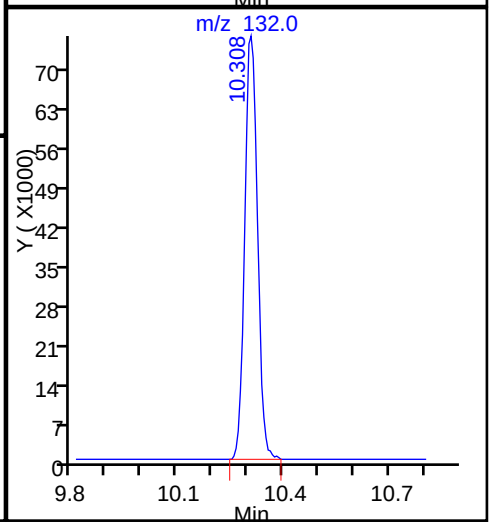








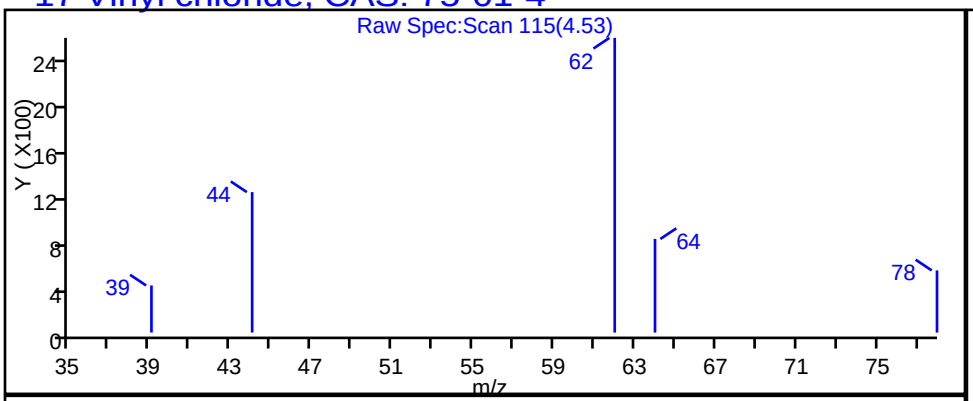


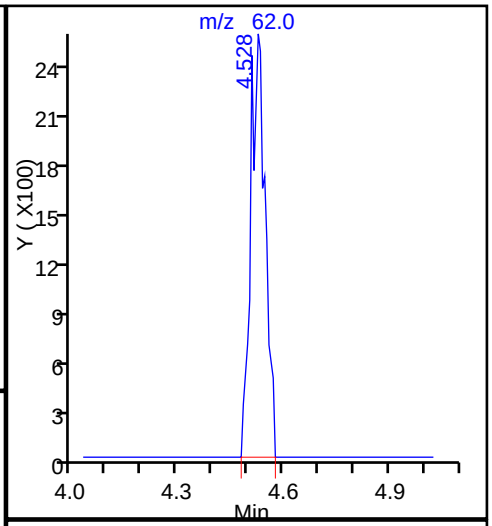


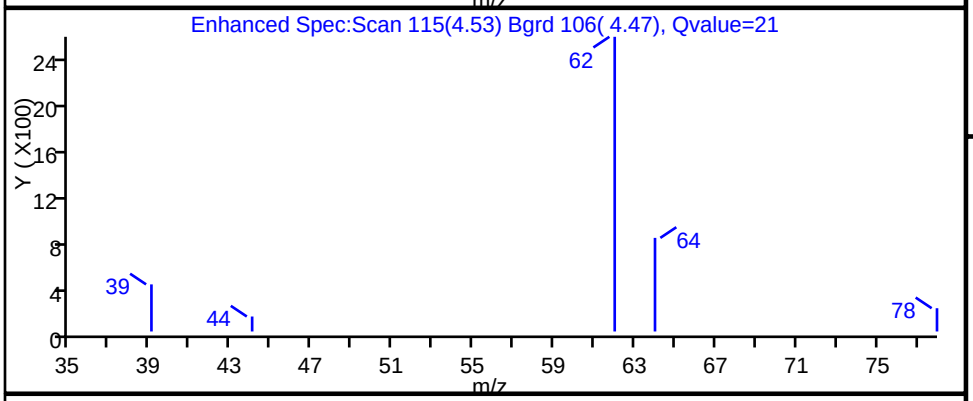
TestAmerica Buffalo

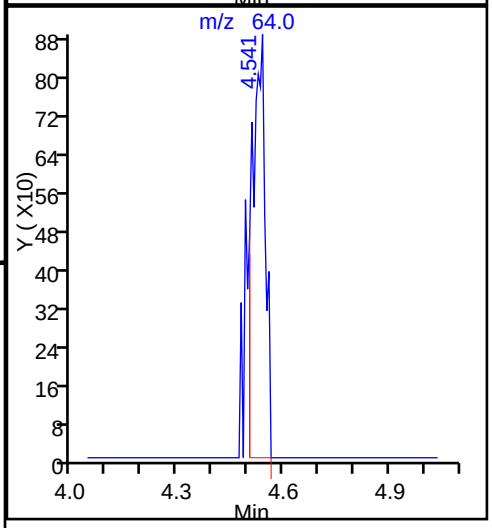
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7841.D				
Injection Date:	06-Jul-2016 14:03:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-16	Lab Sample ID:	480-102539-16		
Client ID:	4009-27S				
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

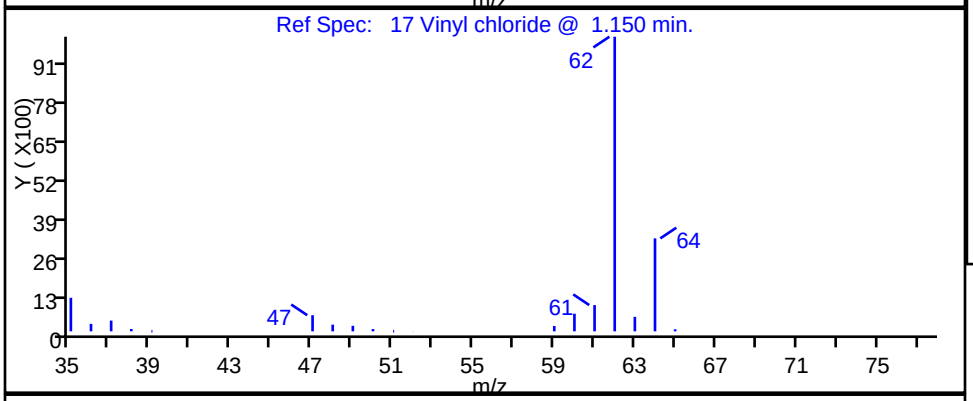
17 Vinyl chloride, CAS: 75-01-4

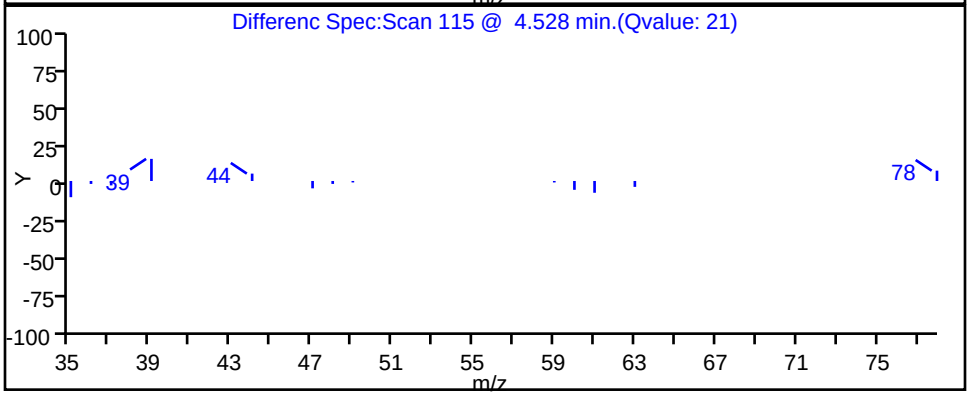












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-27I | Lab Sample ID: 480-102539-17

Matrix: Water | Lab File ID: P7842.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 14:30

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.3		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	0.40	J	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	0.95	J	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-27I | Lab Sample ID: 480-102539-17

Matrix: Water | Lab File ID: P7842.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 14:30

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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	0.84	J	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)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7842.D
Lims ID: 480-102539-A-17
Client ID: 4009-27I
Sample Type: Client
Inject. Date: 06-Jul-2016 14:30:30 ALS Bottle#: 3 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-17
Misc. Info.: 480-0054607-009
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:38:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.857	9.851	0.006	99	103605	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	222452	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	266274	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.042	0.000	93	153642	25.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.486	9.480	0.006	0	95475	25.9	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	93	501323	23.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.302	0.006	93	187204	23.1	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62		4.547				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101	6.274	6.269	0.005	14	3057	0.3954	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.378	6.354	0.024	97	8421	2.37	7
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.495	8.483	0.012	80	3205	0.3908	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.109	9.097	0.012	60	15596	1.28	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.559	9.554	0.005	97	26762	0.9512	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95	10.302	10.302	0.000	92	6422	0.8364	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

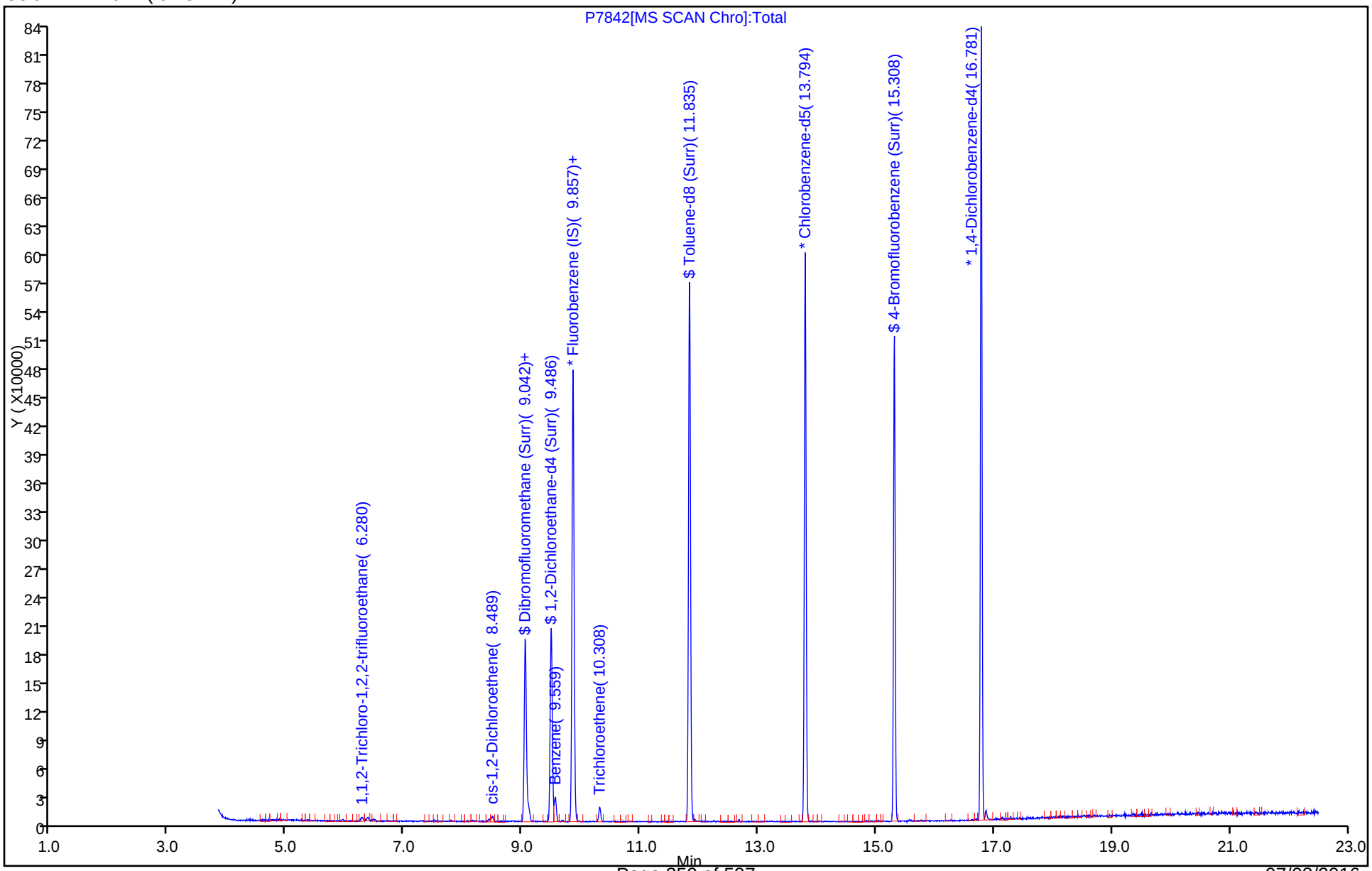
Report Date: 06-Jul-2016 21:38:37 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7842.D

Injection Date:	06-Jul-2016 14:30:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-17	Lab Sample ID:	480-102539-17	Worklist Smp#:	9
Client ID:	4009-27I				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

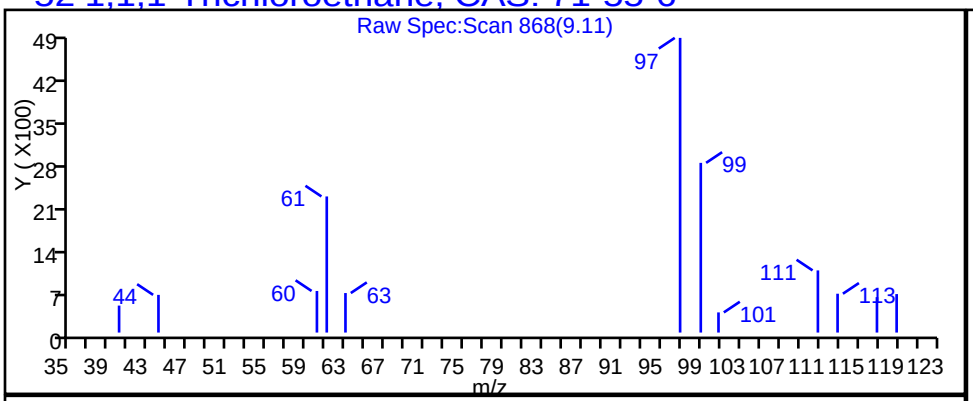
Column: ZB-624 (0.25 mm)

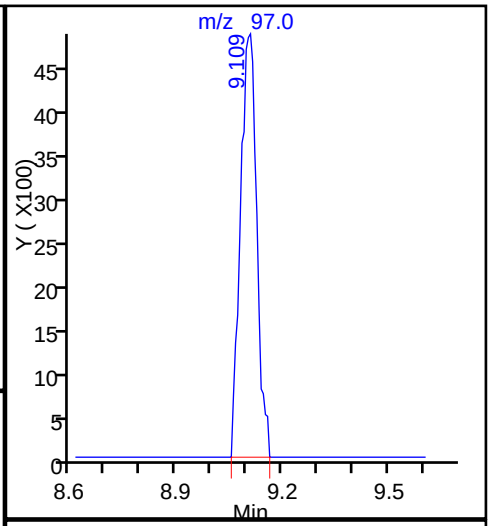


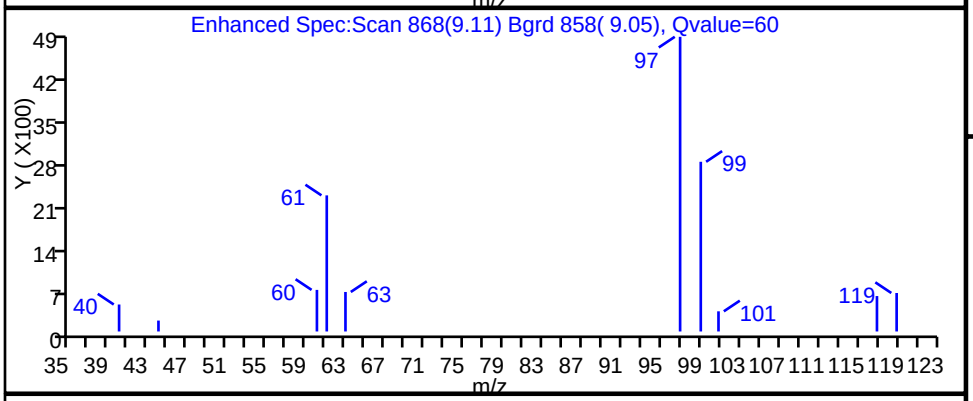
TestAmerica Buffalo

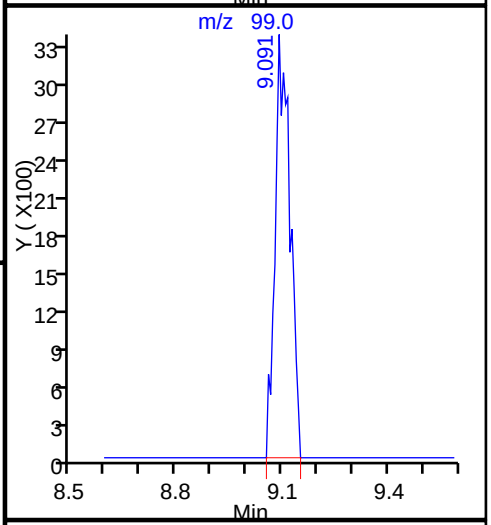
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7842.D				
Injection Date:	06-Jul-2016 14:30:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-17	Lab Sample ID:	480-102539-17		
Client ID:	4009-27I				
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

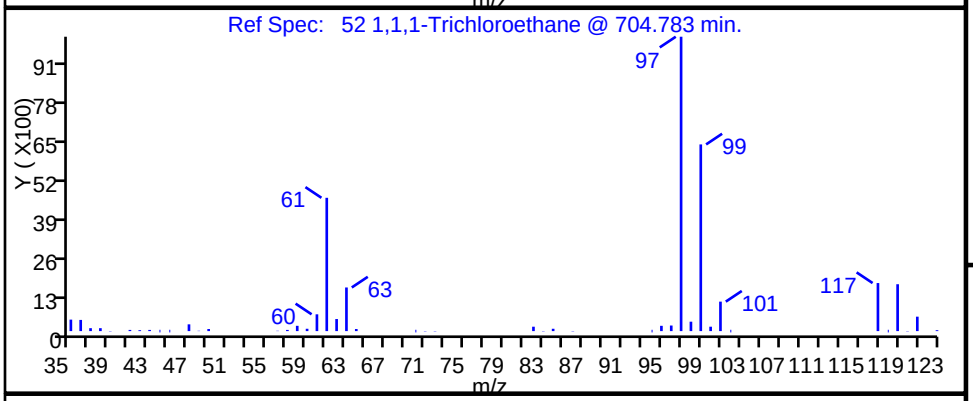
52 1,1,1-Trichloroethane, CAS: 71-55-6

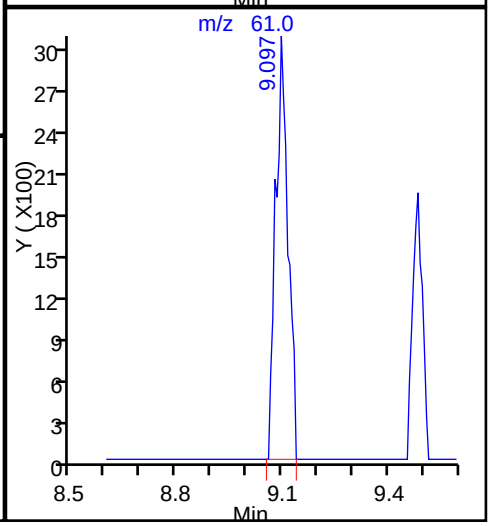


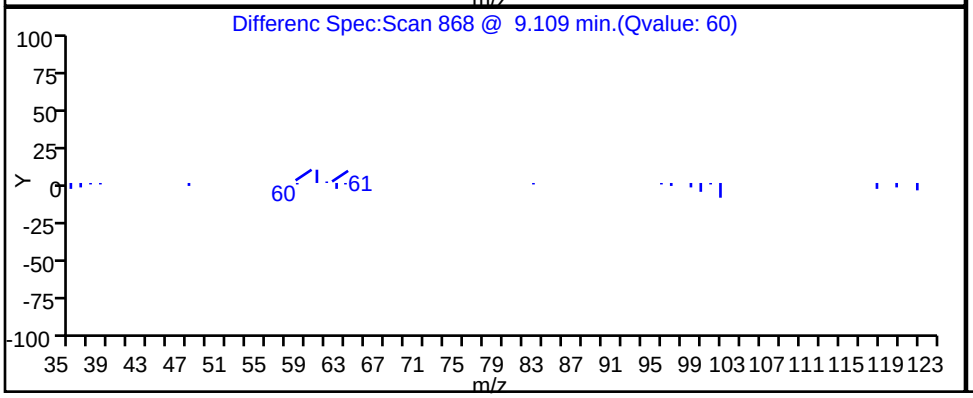










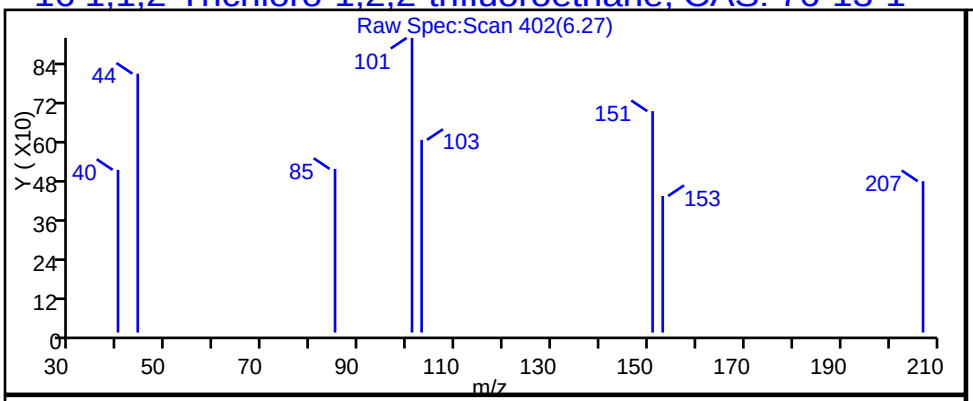


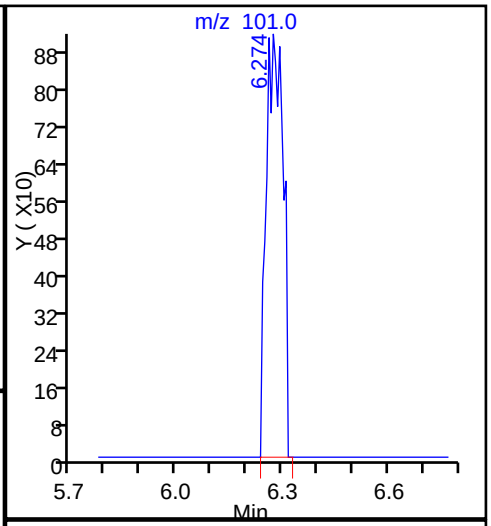
TestAmerica Buffalo

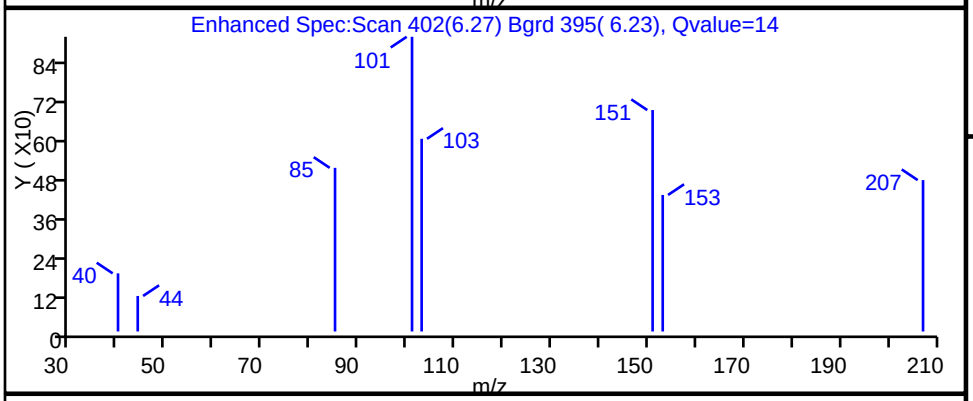
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7842.D

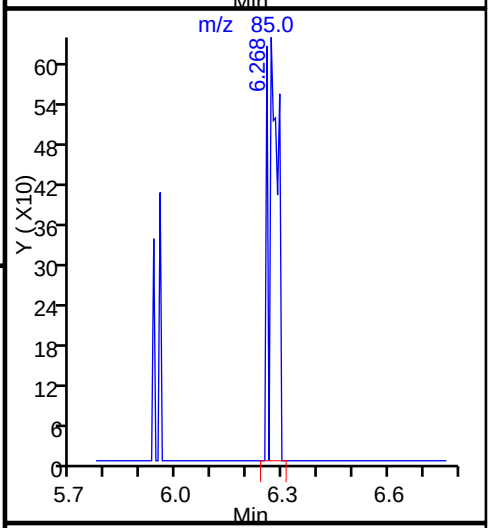
Injection Date:	06-Jul-2016 14:30:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-17	Lab Sample ID:	480-102539-17		
Client ID:	4009-27I				
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

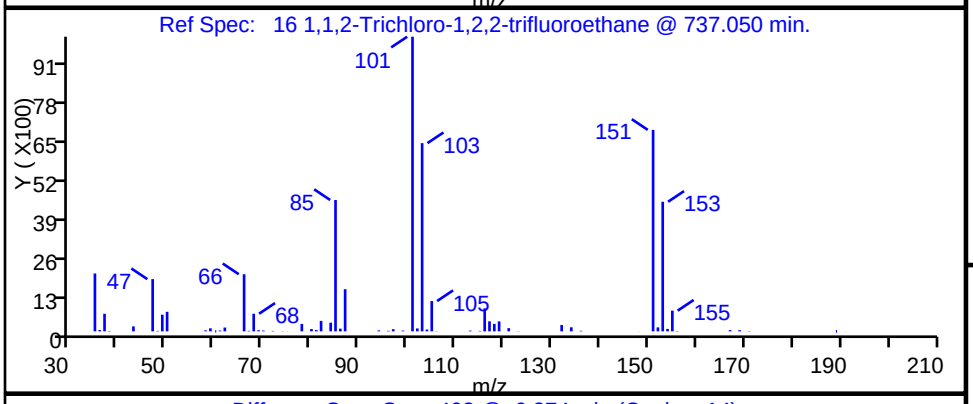
16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

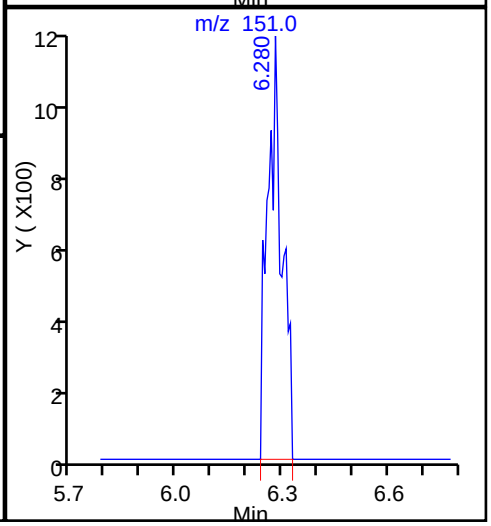


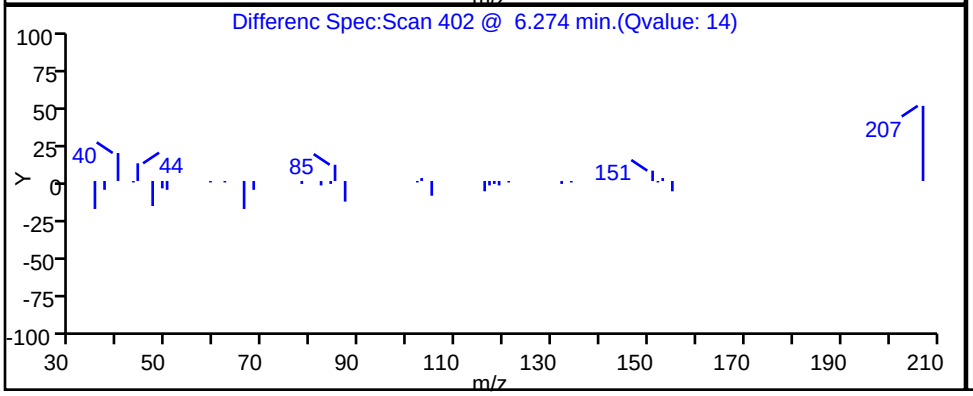










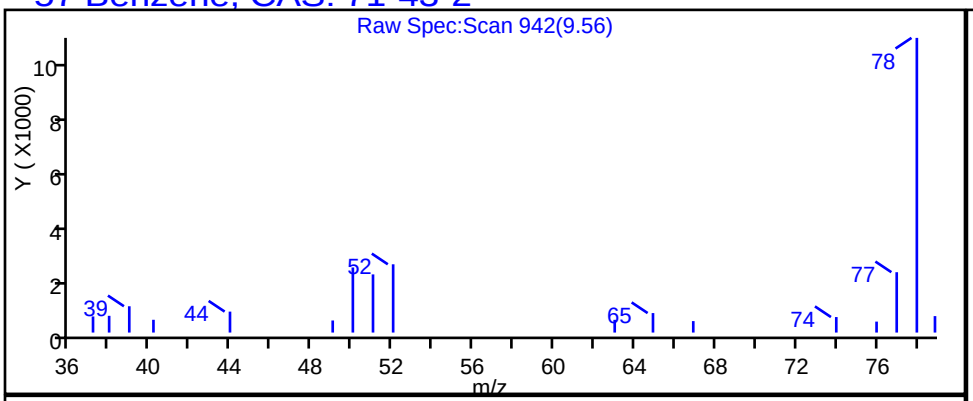


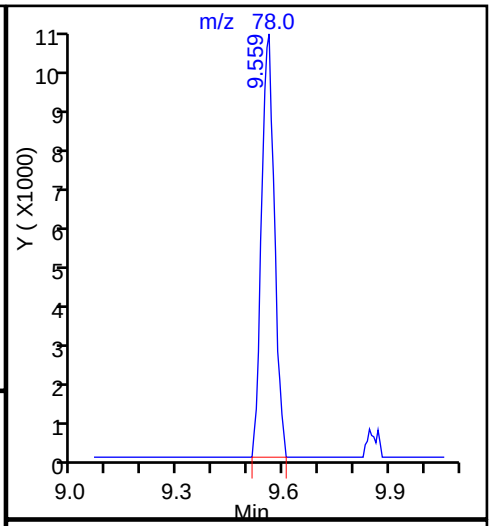
TestAmerica Buffalo

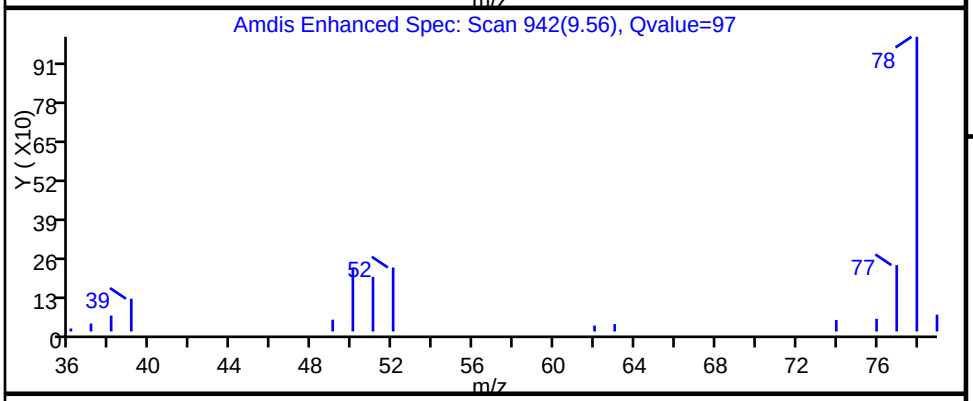
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7842.D

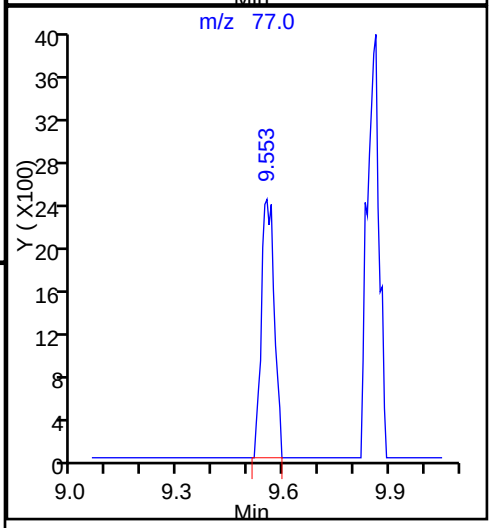
Injection Date:	06-Jul-2016 14:30:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-17	Lab Sample ID:	480-102539-17		
Client ID:	4009-27I				
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

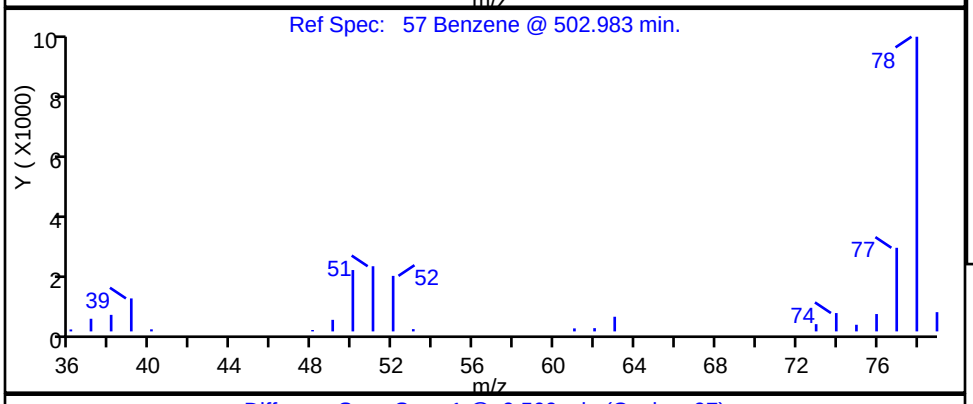
57 Benzene, CAS: 71-43-2

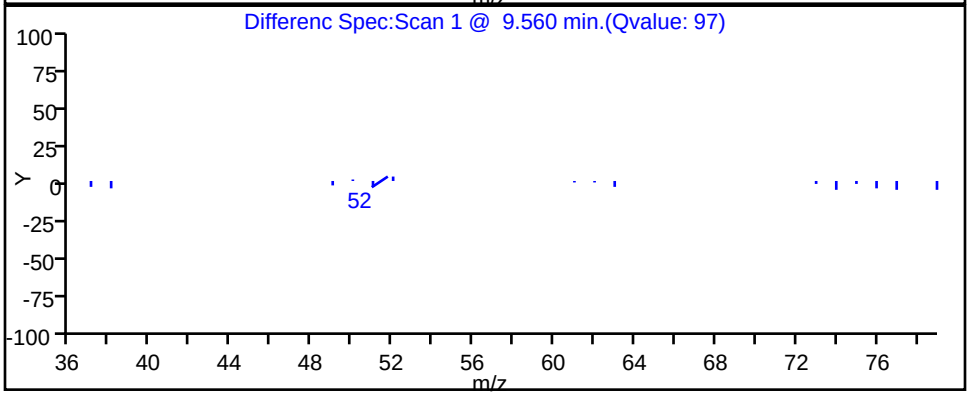










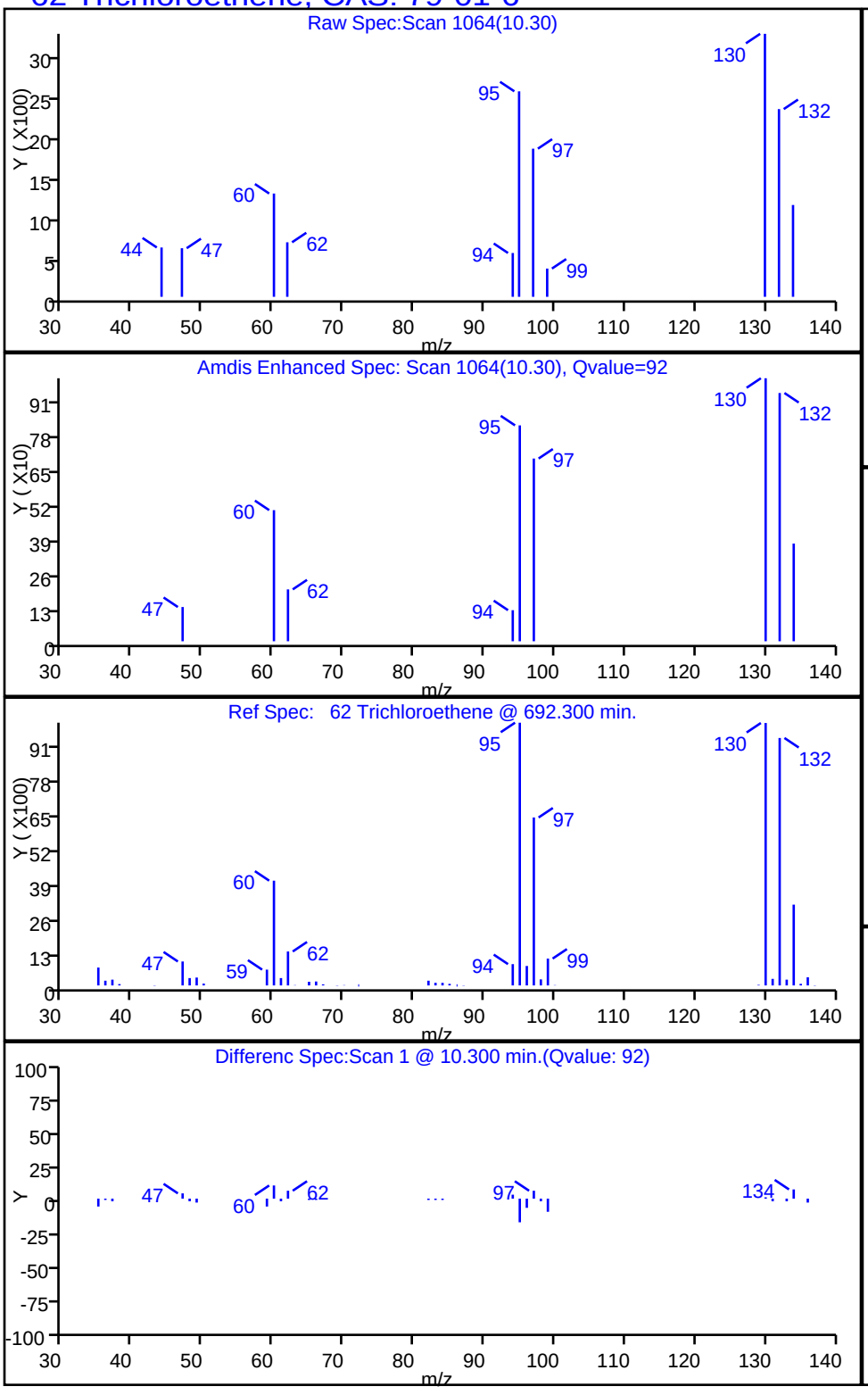


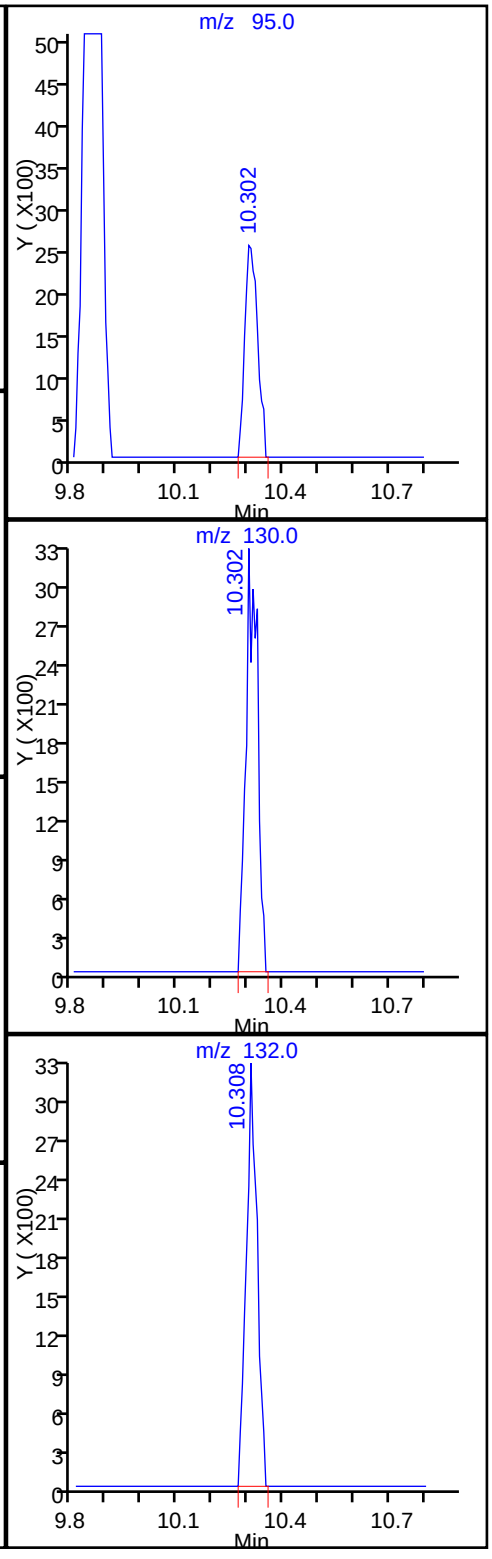
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7842.D

Injection Date:	06-Jul-2016 14:30:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-17	Lab Sample ID:	480-102539-17		
Client ID:	4009-27I				
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-27D Lab Sample ID: 480-102539-18

Matrix: Water Lab File ID: P7843.D

Analysis Method: 8260C Date Collected: 06/30/2016 12:50

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2016 14:58

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.: 309873 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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-27D | Lab Sample ID: 480-102539-18

Matrix: Water | Lab File ID: P7843.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:50

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 14:58

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	102		66-137
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		60-140
2037-26-5	Toluene-d8 (Surr)	92		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7843.D
Lims ID: 480-102539-A-18
Client ID: 4009-27D
Sample Type: Client
Inject. Date: 06-Jul-2016 14:58:30 ALS Bottle#: 4 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-18
Misc. Info.: 480-0054607-010
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:38:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.851	0.007	99	103673	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	218026	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	258947	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.042	0.007	93	153567	25.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.493	9.480	0.013	0	94004	25.4	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	481949	23.1	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.007	92	180318	22.7	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62		4.547				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.366	6.354	0.012	99	8019	2.25	7
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.554				ND	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

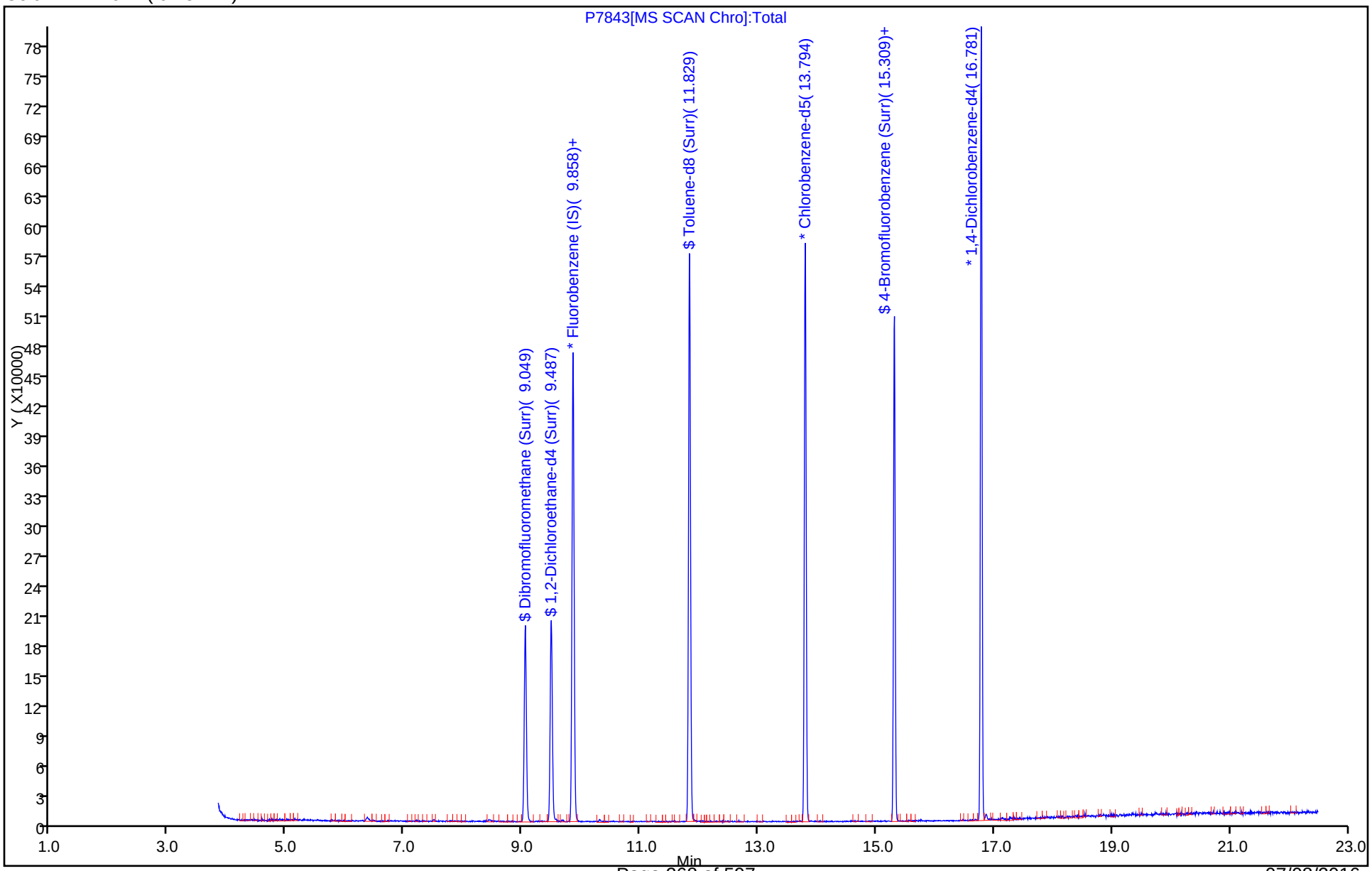
Report Date: 06-Jul-2016 21:38:42 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7843.D

Injection Date:	06-Jul-2016 14:58:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-18	Lab Sample ID:	480-102539-18	Worklist Smp#:	10
Client ID:	4009-27D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-28 | Lab Sample ID: 480-102539-19

Matrix: Water | Lab File ID: P7844.D

Analysis Method: 8260C | Date Collected: 06/30/2016 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 15:25

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.5		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-28 | Lab Sample ID: 480-102539-19

Matrix: Water | Lab File ID: P7844.D

Analysis Method: 8260C | Date Collected: 06/30/2016 09:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 15:25

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7844.D
Lims ID: 480-102539-A-19
Client ID: 4009-28
Sample Type: Client
Inject. Date: 06-Jul-2016 15:25:30 ALS Bottle#: 5 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-19
Misc. Info.: 480-0054607-011
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:38:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.852	9.851	0.001	99	101071	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	212018	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	257244	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.042	0.000	93	149469	25.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.480	0.007	0	94238	26.2	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	481696	23.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.007	93	178492	23.1	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62		4.547				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.366	6.354	0.012	98	8559	2.47	7
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63	7.789	7.783	0.006	1	2560	0.1873	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	75	2271	0.2838	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	97	29691	2.51	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.554				ND	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

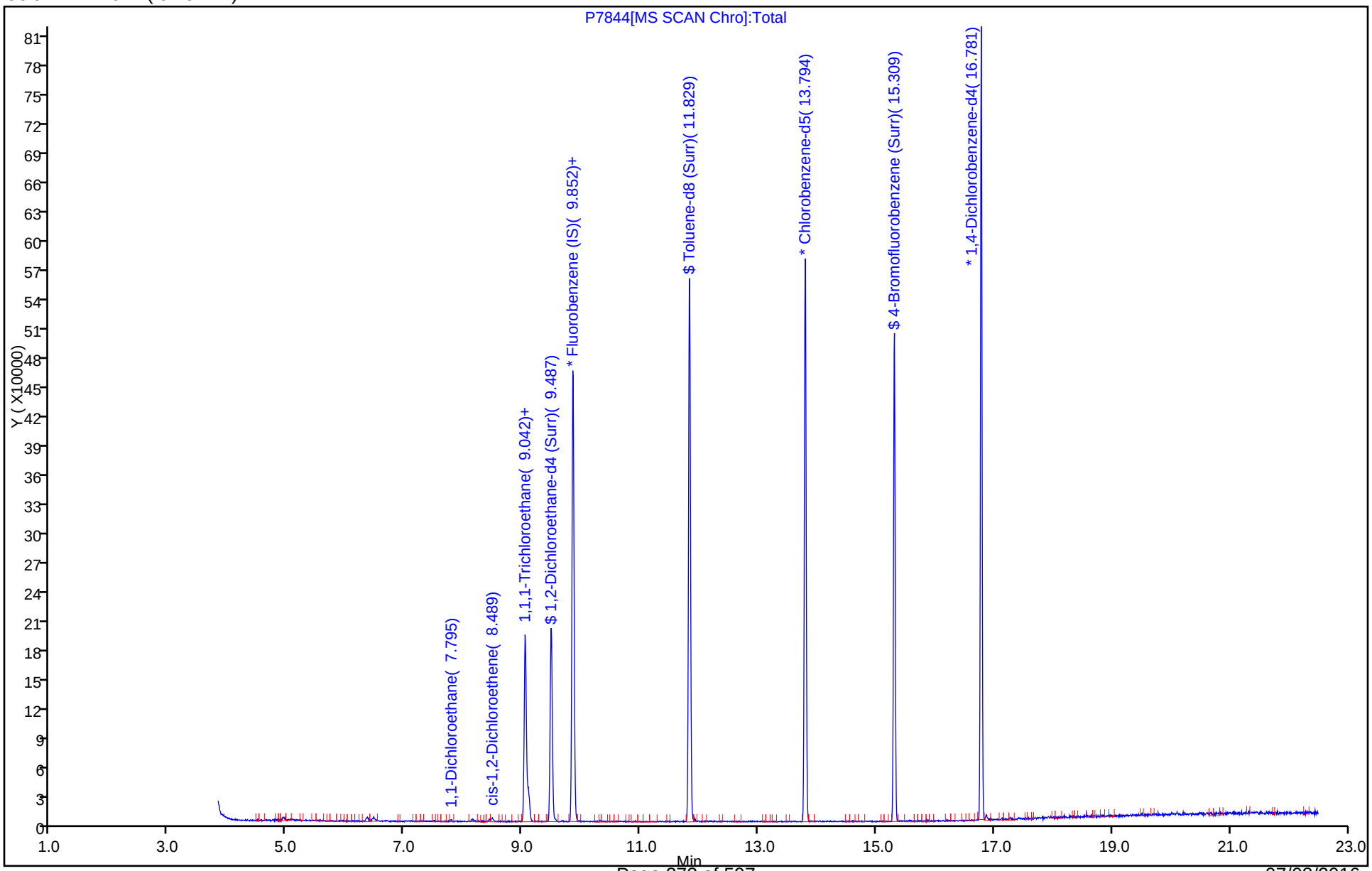
Report Date: 06-Jul-2016 21:38:45 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7844.D

Injection Date:	06-Jul-2016 15:25:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-19	Lab Sample ID:	480-102539-19	Worklist Smp#:	11
Client ID:	4009-28				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

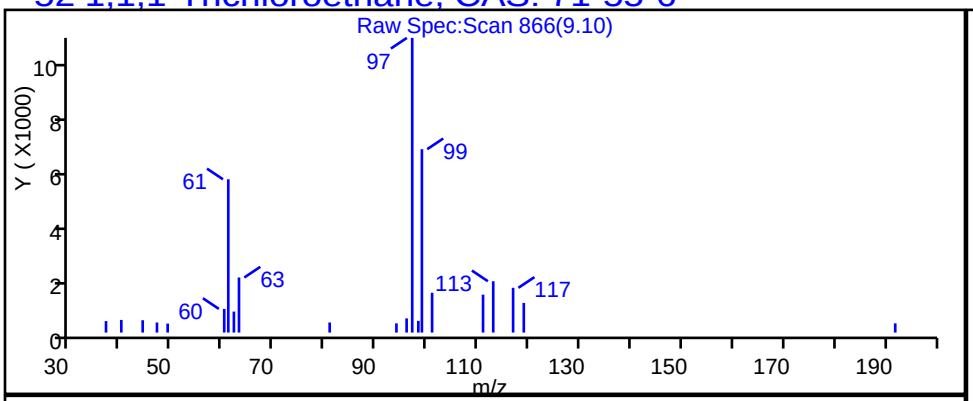


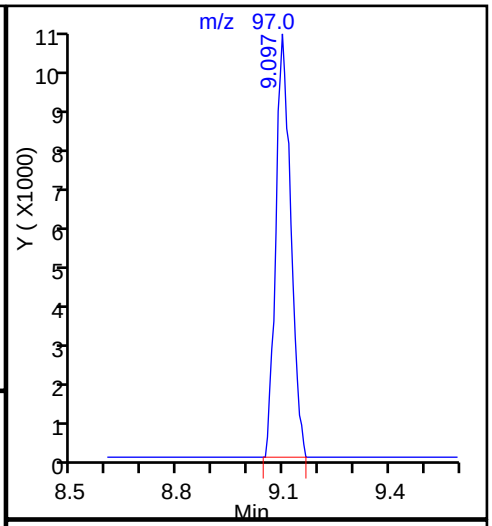
TestAmerica Buffalo

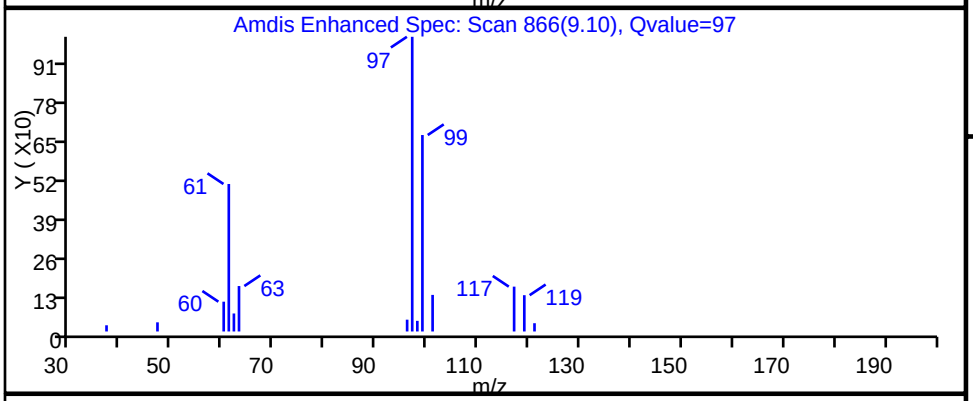
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7844.D

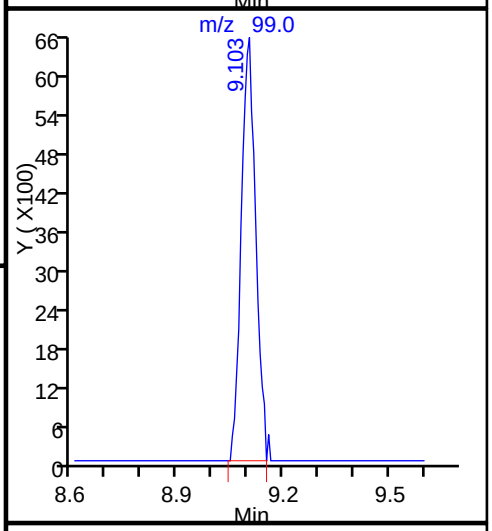
Injection Date:	06-Jul-2016 15:25:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-19	Lab Sample ID:	480-102539-19		
Client ID:	4009-28				
Operator ID:	CDC	ALS Bottle#:	5	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

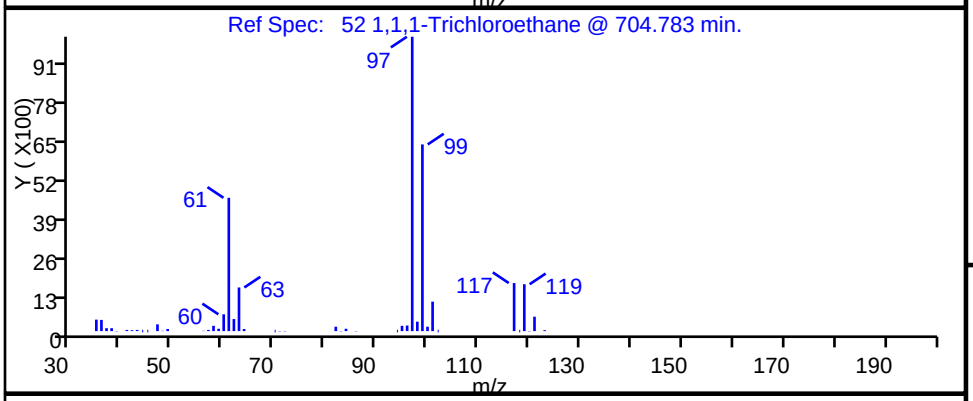
52 1,1,1-Trichloroethane, CAS: 71-55-6

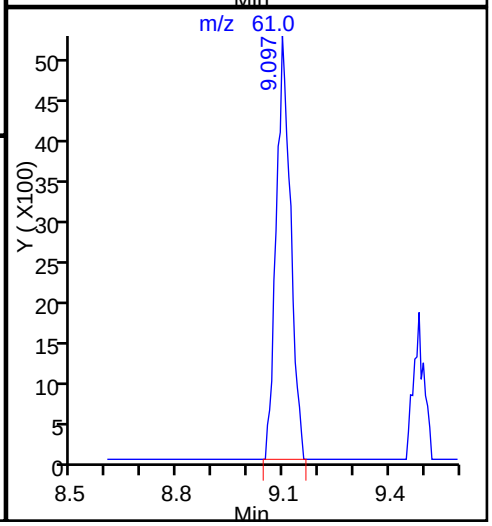


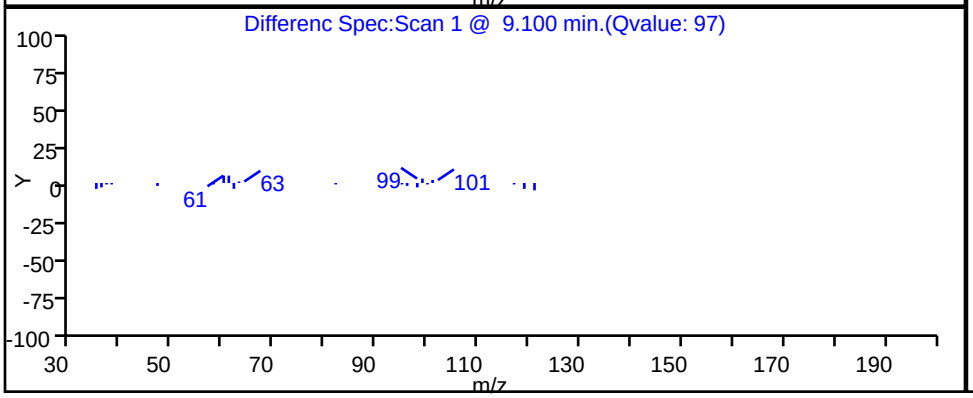












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-29S Lab Sample ID: 480-102539-20

Matrix: Water Lab File ID: P7845.D

Analysis Method: 8260C Date Collected: 06/30/2016 12:30

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2016 15:53

Soil Aliquot Vol: Dilution Factor: 20

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 309873 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	460		20	16
79-34-5	1,1,2,2-Tetrachloroethane	20	U	20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	6.2
79-00-5	1,1,2-Trichloroethane	20	U	20	4.6
75-34-3	1,1-Dichloroethane	69		20	7.6
75-35-4	1,1-Dichloroethene	33		20	5.8
526-73-8	1,2,3-Trimethylbenzene	20	U	20	5.2
120-82-1	1,2,4-Trichlorobenzene	20	U	20	8.2
95-63-6	1,2,4-Trimethylbenzene	20	U	20	15
96-12-8	1,2-Dibromo-3-Chloropropane	20	U	20	7.8
106-93-4	1,2-Dibromoethane	20	U	20	15
95-50-1	1,2-Dichlorobenzene	20	U	20	16
107-06-2	1,2-Dichloroethane	20	U	20	4.2
78-87-5	1,2-Dichloropropane	20	U	20	14
108-67-8	1,3,5-Trimethylbenzene	20	U	20	15
541-73-1	1,3-Dichlorobenzene	20	U	20	16
106-46-7	1,4-Dichlorobenzene	20	U	20	17
78-93-3	2-Butanone (MEK)	200	U	200	26
591-78-6	2-Hexanone	100	U	100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	42
67-64-1	Acetone	200	U	200	60
71-43-2	Benzene	20	U	20	8.2
75-27-4	Bromodichloromethane	20	U	20	7.8
75-25-2	Bromoform	20	U	20	5.2
74-83-9	Bromomethane	20	U	20	14
75-15-0	Carbon disulfide	20	U	20	3.8
56-23-5	Carbon tetrachloride	20	U	20	5.4
108-90-7	Chlorobenzene	20	U	20	15
75-00-3	Chloroethane	20	U	20	6.4
67-66-3	Chloroform	20	U	20	6.8
74-87-3	Chloromethane	20	U	20	7.0
156-59-2	cis-1,2-Dichloroethene	190		20	16
10061-01-5	cis-1,3-Dichloropropene	20	U	20	7.2
110-82-7	Cyclohexane	20	U	20	3.6
124-48-1	Dibromochloromethane	20	U	20	6.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-29S | Lab Sample ID: 480-102539-20

Matrix: Water | Lab File ID: P7845.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 15:53

Soil Aliquot Vol: | Dilution Factor: 20

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

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

Analysis Batch No.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	20	U	20	14
100-41-4	Ethylbenzene	20	U	20	15
98-82-8	Isopropylbenzene	20	U	20	16
79-20-9	Methyl acetate	50	U	50	26
1634-04-4	Methyl tert-butyl ether	20	U	20	3.2
108-87-2	Methylcyclohexane	20	U	20	3.2
75-09-2	Methylene Chloride	20	U	20	8.8
100-42-5	Styrene	20	U	20	15
127-18-4	Tetrachloroethene	20	U	20	7.2
108-88-3	Toluene	20	U	20	10
156-60-5	trans-1,2-Dichloroethene	20	U	20	18
10061-02-6	trans-1,3-Dichloropropene	20	U	20	7.4
79-01-6	Trichloroethene	20	U	20	9.2
75-69-4	Trichlorofluoromethane	20	U	20	18
75-01-4	Vinyl chloride	78		20	18
1330-20-7	Xylenes, Total	40	U	40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		60-140
2037-26-5	Toluene-d8 (Surr)	93		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7845.D
Lims ID: 480-102539-A-20
Client ID: 4009-29S
Sample Type: Client
Inject. Date: 06-Jul-2016 15:53:30 ALS Bottle#: 6 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 480-102539-A-20
Misc. Info.: 480-0054607-012
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:38:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.851	0.007	99	101651	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	212771	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	249378	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.042	0.001	93	150627	25.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.480	0.007	0	93397	25.8	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	93	474940	23.3	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.007	93	177086	22.9	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.553	4.547	0.006	97	22629	3.92	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269				ND	
25 1,1-Dichloroethene	96	6.323	6.311	0.012	93	11138	1.66	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63	7.783	7.783	0.000	96	47727	3.47	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	83	76281	9.48	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	98	274892	23.1	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.554				ND	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

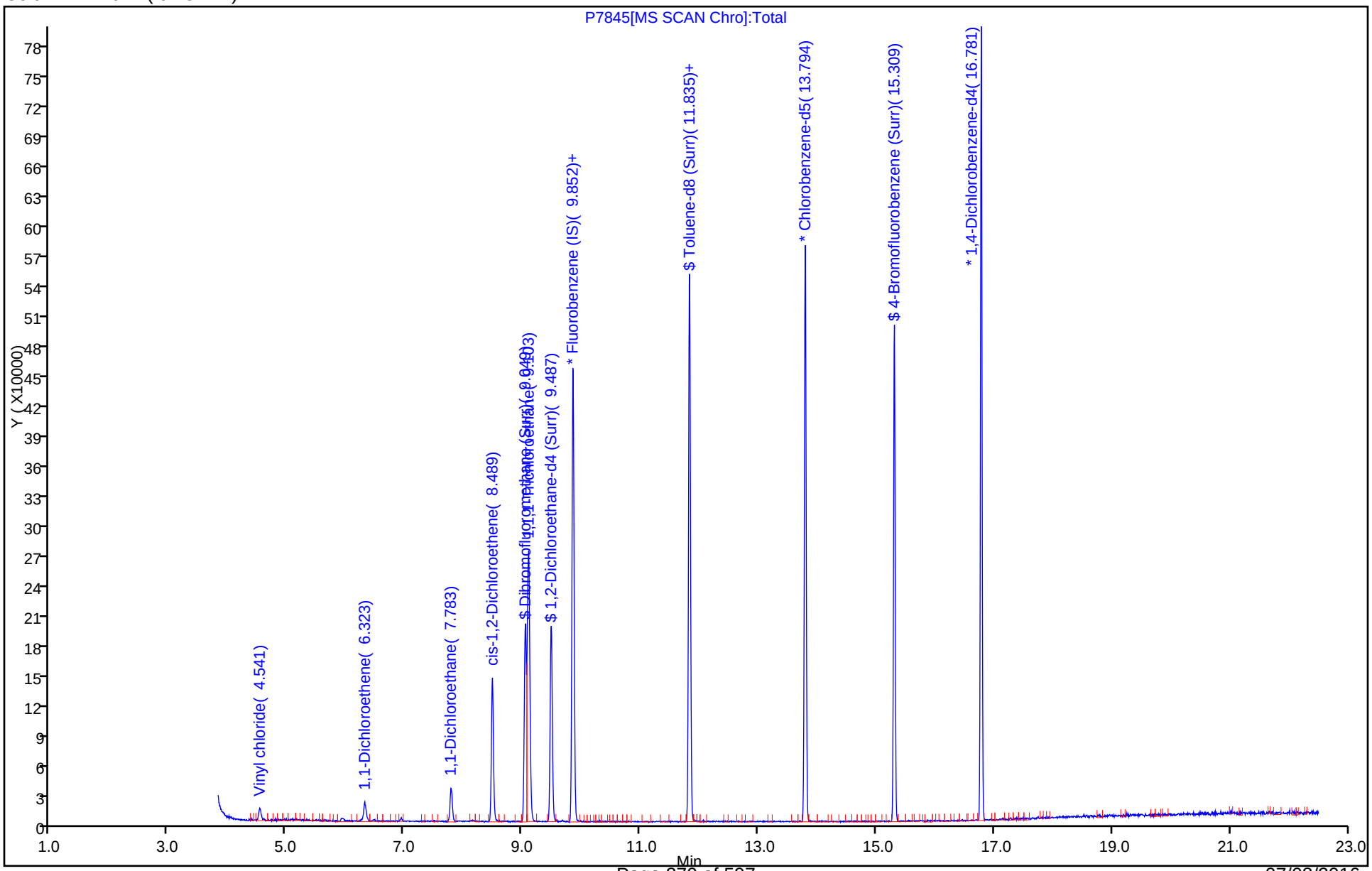
Report Date: 06-Jul-2016 21:38:49 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7845.D

Injection Date:	06-Jul-2016 15:53:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-20	Lab Sample ID:	480-102539-20	Worklist Smp#:	12
Client ID:	4009-29S				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	6
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

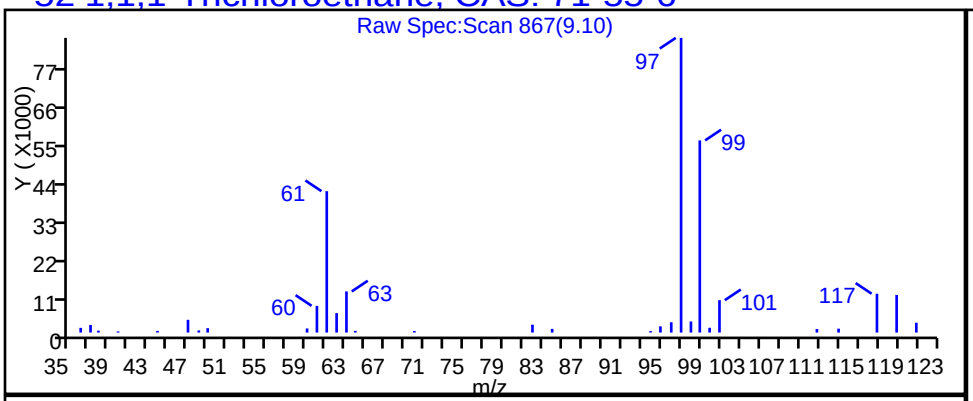
Column: ZB-624 (0.25 mm)

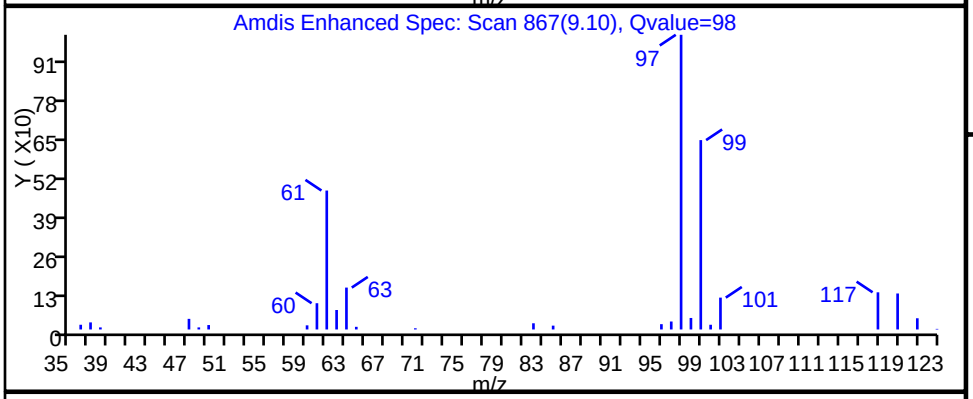


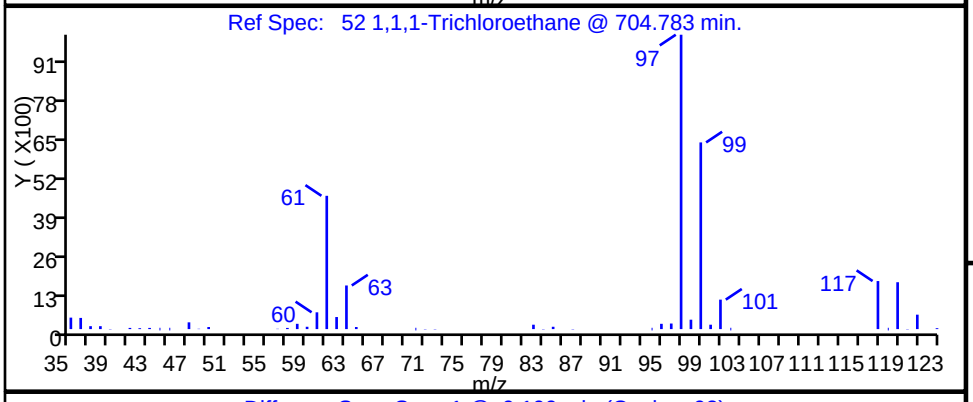
TestAmerica Buffalo

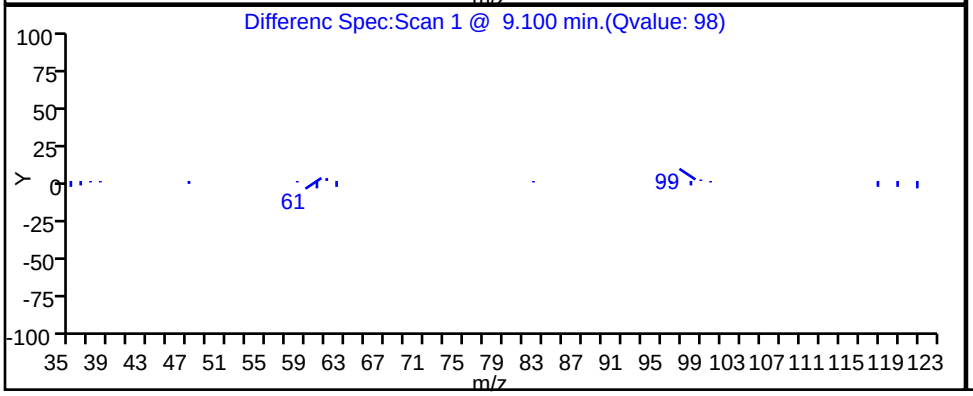
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7845.D				
Injection Date:	06-Jul-2016 15:53:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-20	Lab Sample ID:	480-102539-20		
Client ID:	4009-29S				
Operator ID:	CDC	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

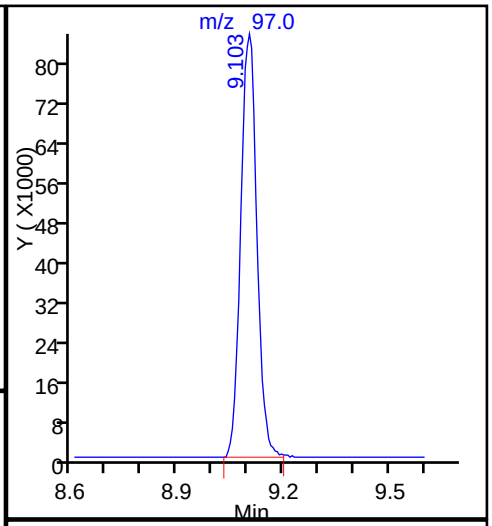
52 1,1,1-Trichloroethane, CAS: 71-55-6

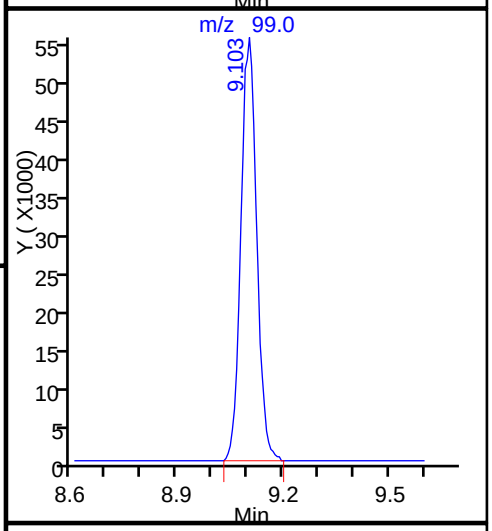


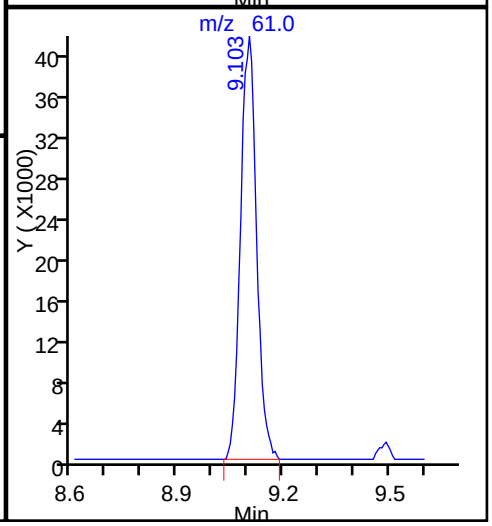








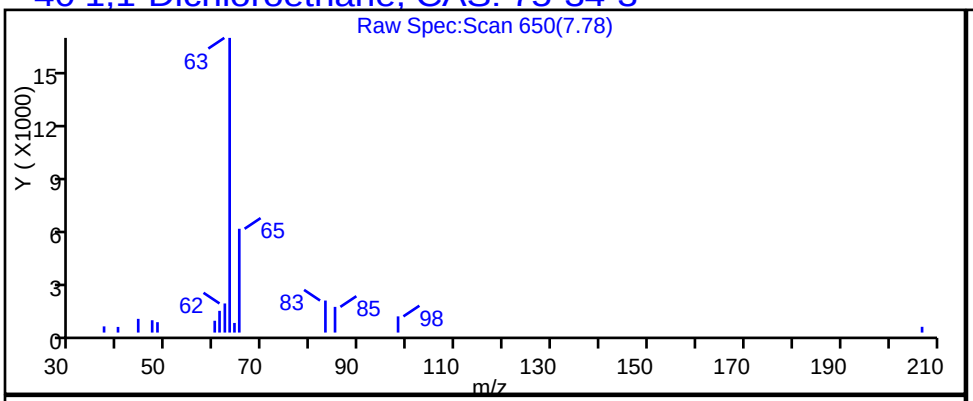


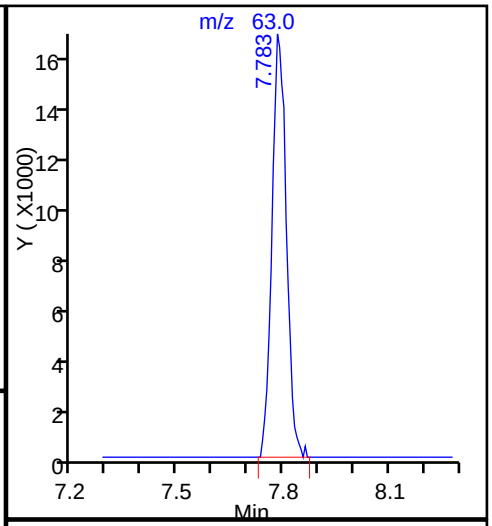


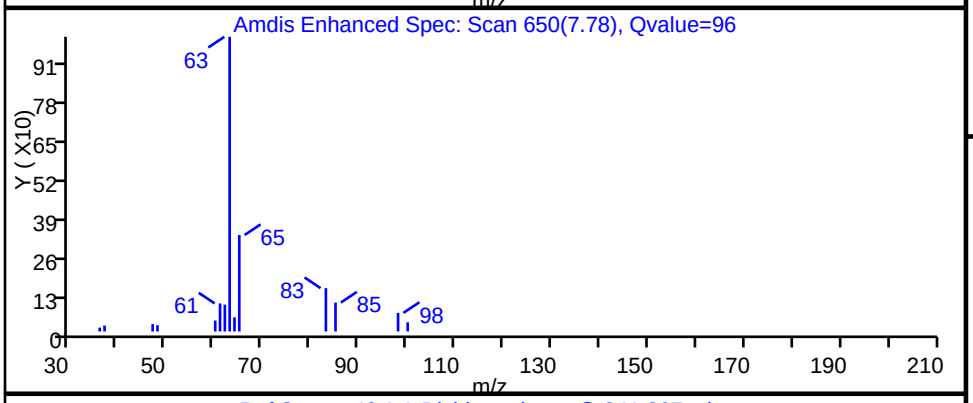
TestAmerica Buffalo

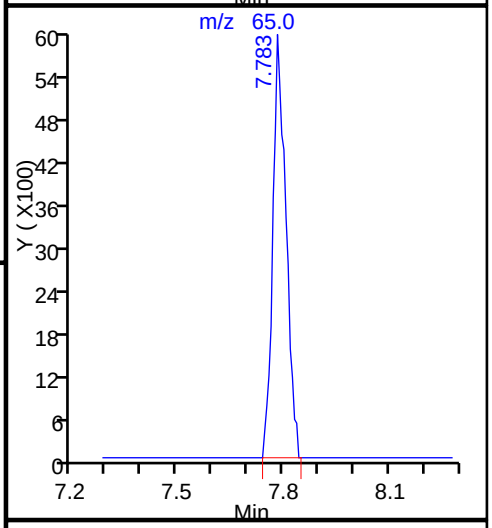
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7845.D				
Injection Date:	06-Jul-2016 15:53:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-20	Lab Sample ID:	480-102539-20		
Client ID:	4009-29S				
Operator ID:	CDC	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

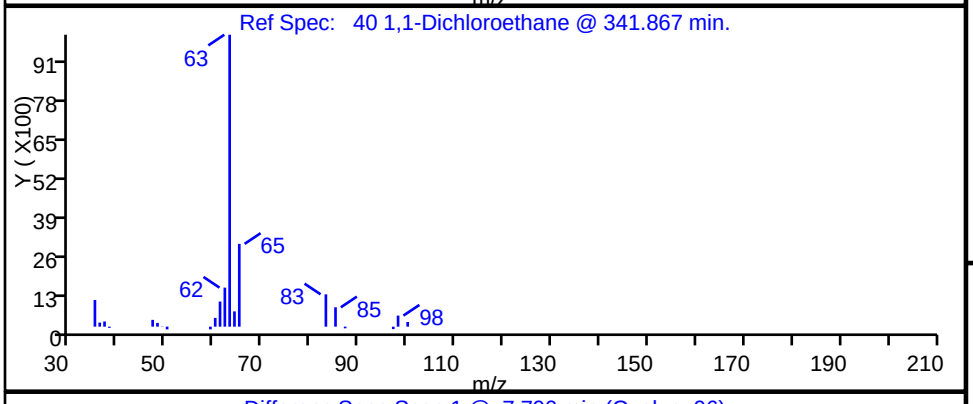
40 1,1-Dichloroethane, CAS: 75-34-3

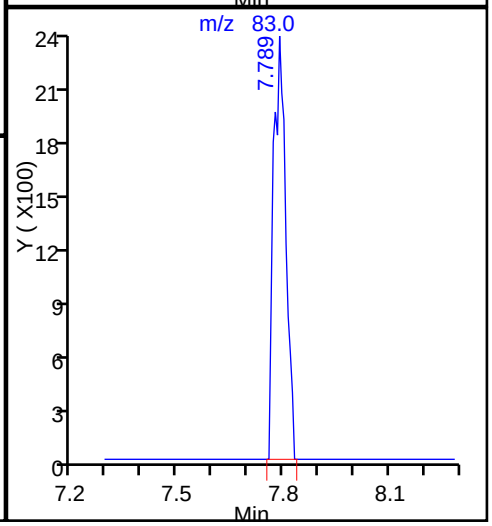


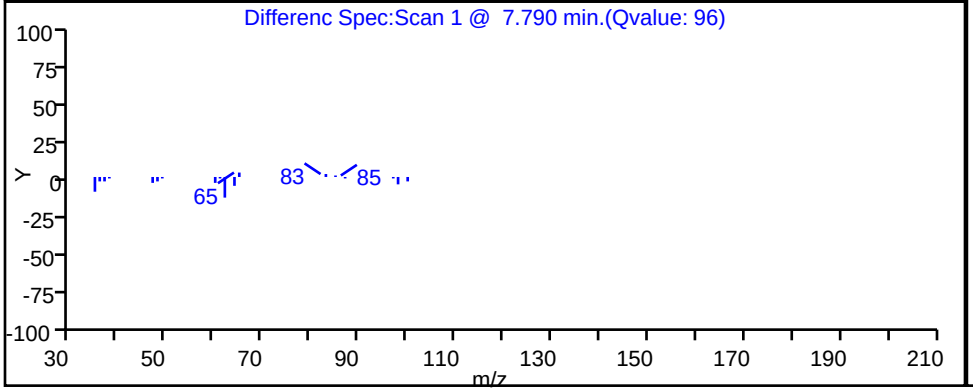








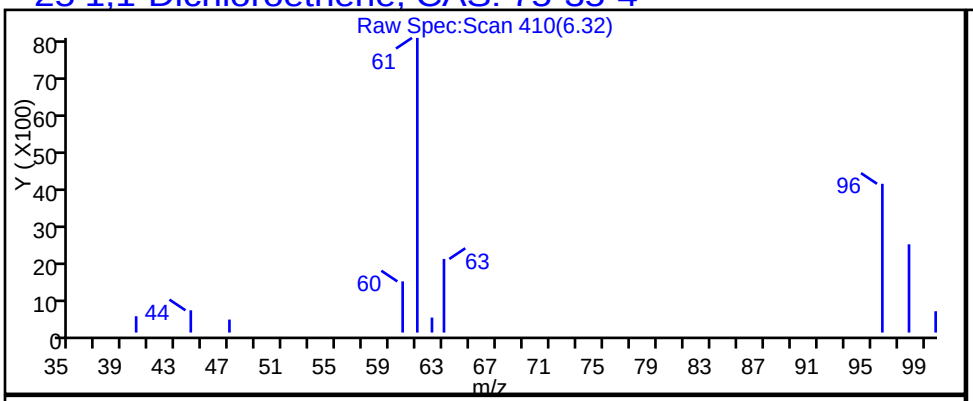


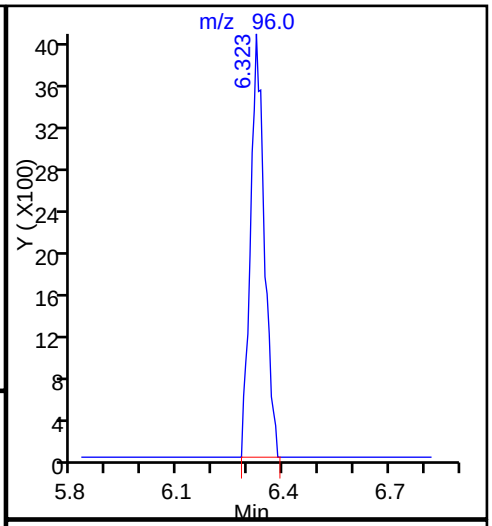


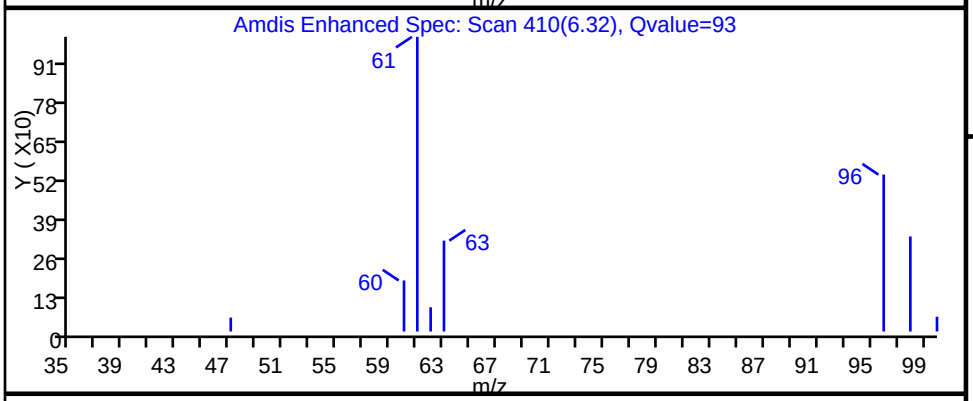
TestAmerica Buffalo

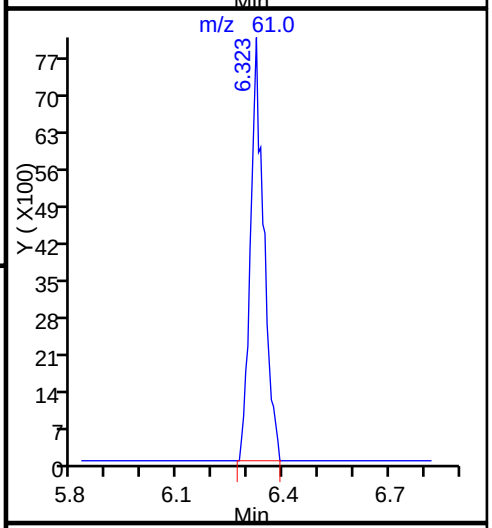
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7845.D				
Injection Date:	06-Jul-2016 15:53:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-20	Lab Sample ID:	480-102539-20		
Client ID:	4009-29S				
Operator ID:	CDC	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

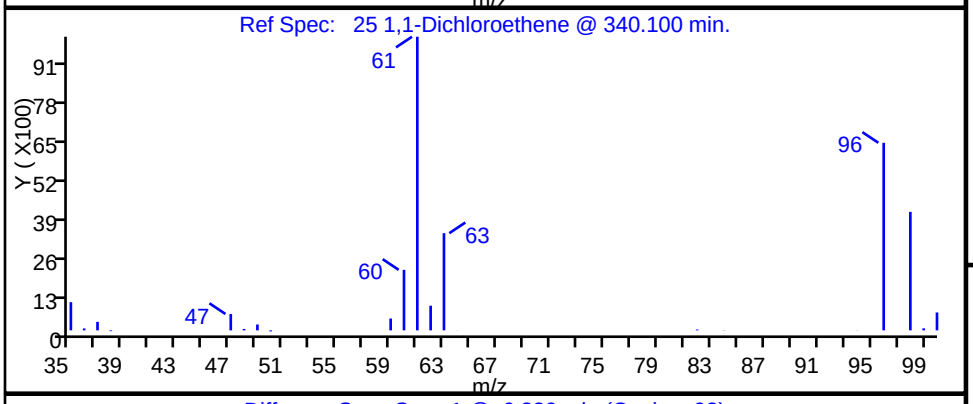
25 1,1-Dichloroethene, CAS: 75-35-4

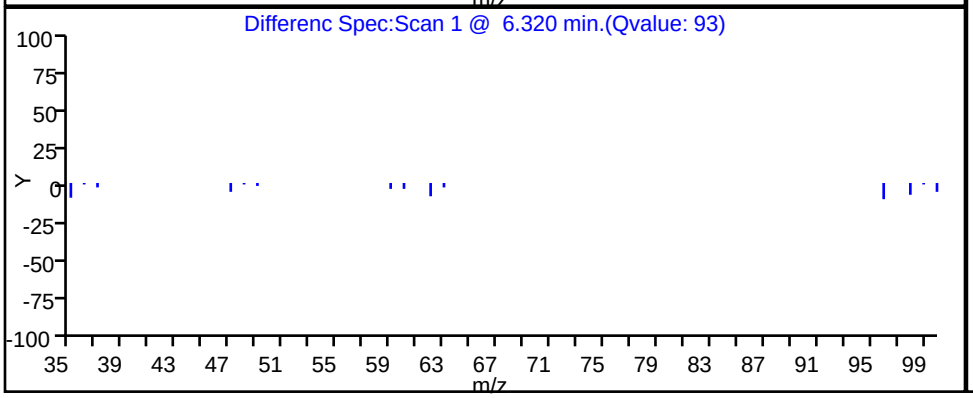


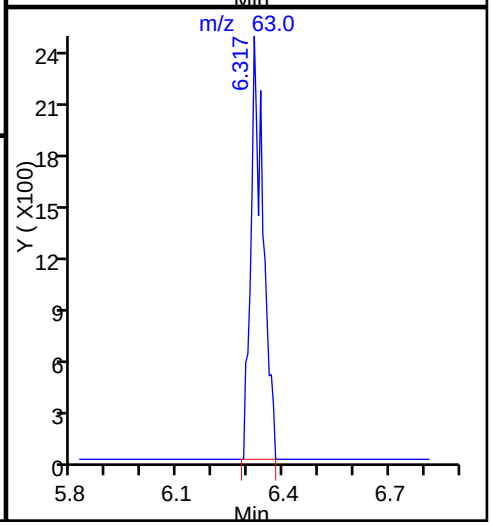












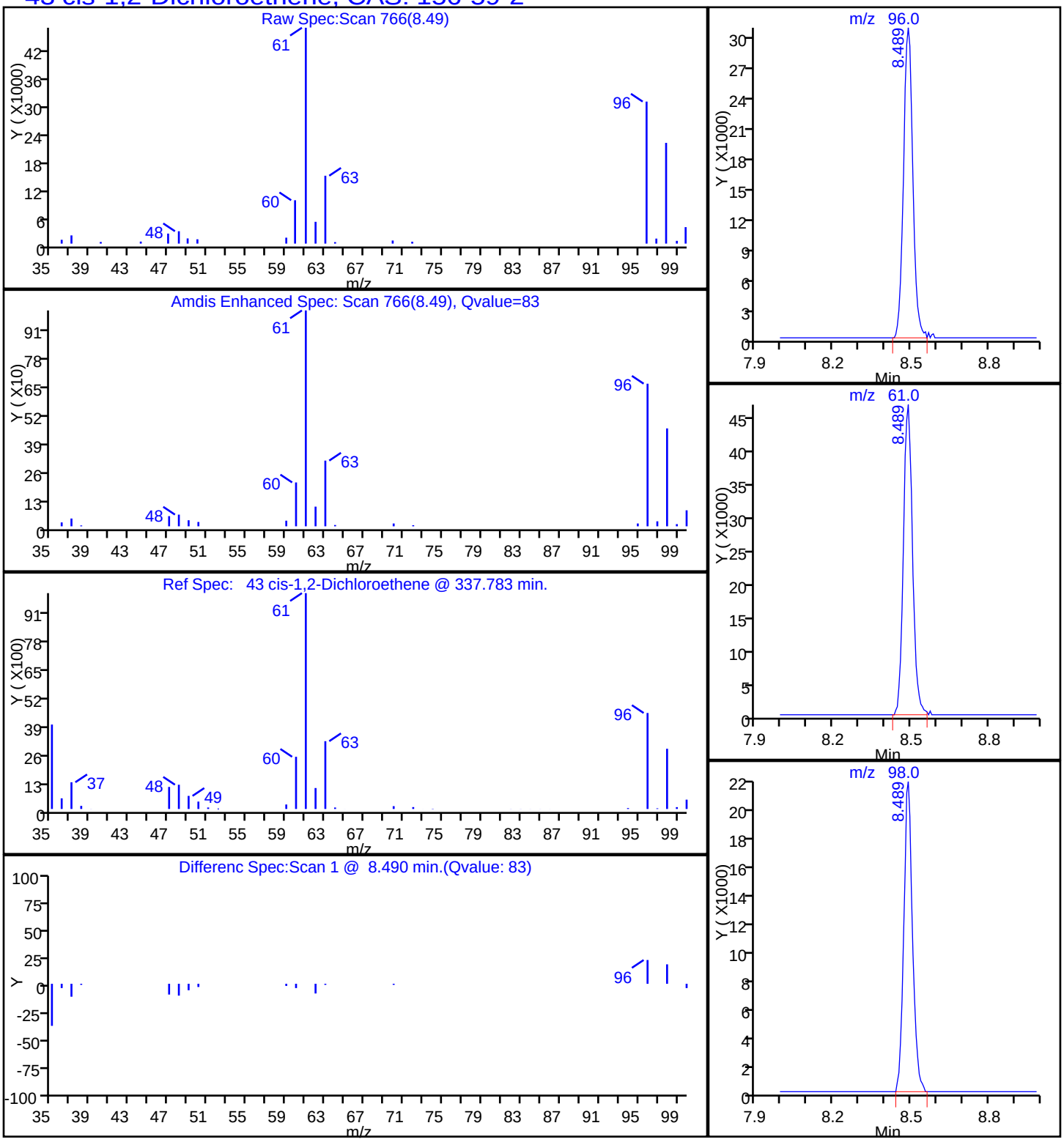
Report Date: 06-Jul-2016 21:38:49 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7845.D

Injection Date:	06-Jul-2016 15:53:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-20	Lab Sample ID:	480-102539-20		
Client ID:	4009-29S				
Operator ID:	CDC	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

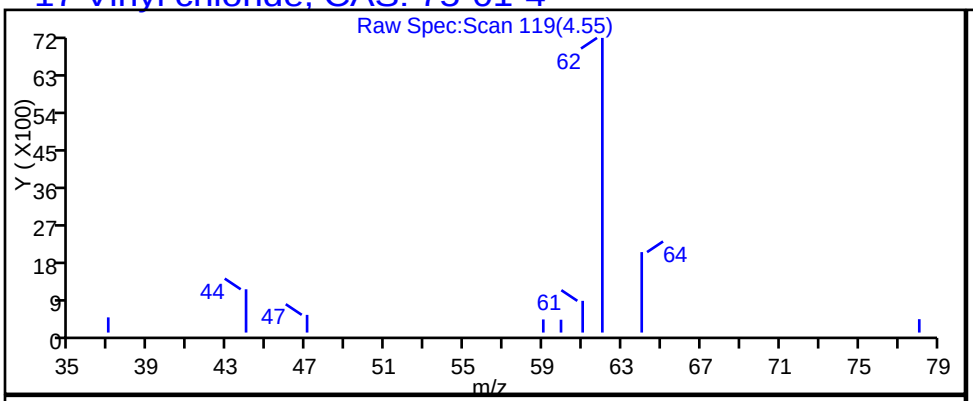
43 cis-1,2-Dichloroethene, CAS: 156-59-2

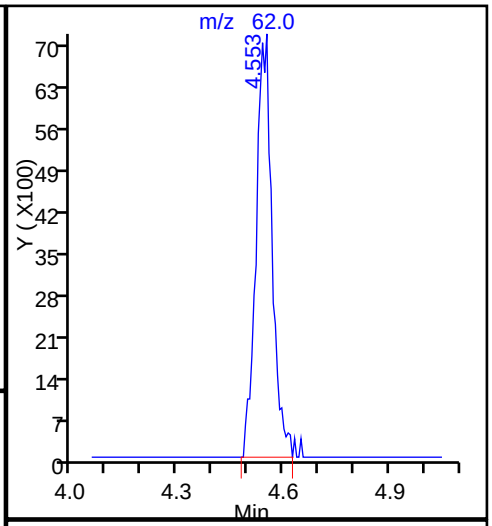


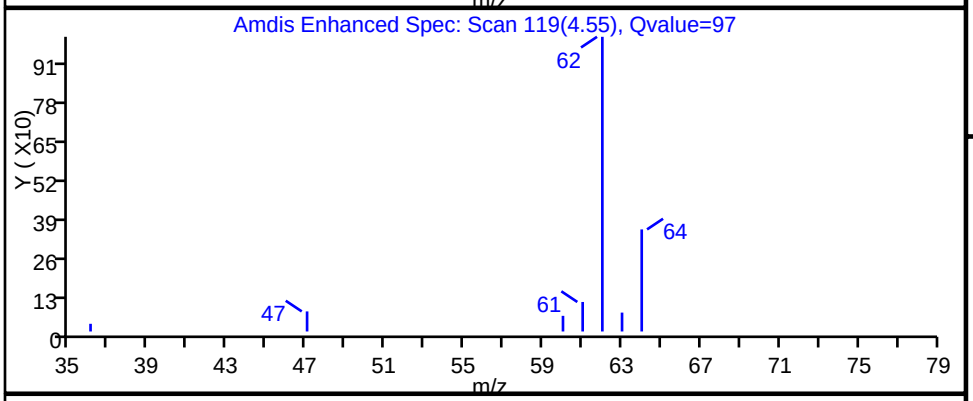
TestAmerica Buffalo

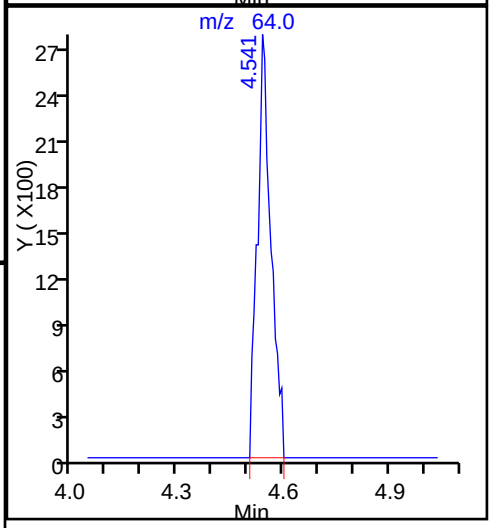
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7845.D				
Injection Date:	06-Jul-2016 15:53:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-20	Lab Sample ID:	480-102539-20		
Client ID:	4009-29S				
Operator ID:	CDC	ALS Bottle#:	6	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

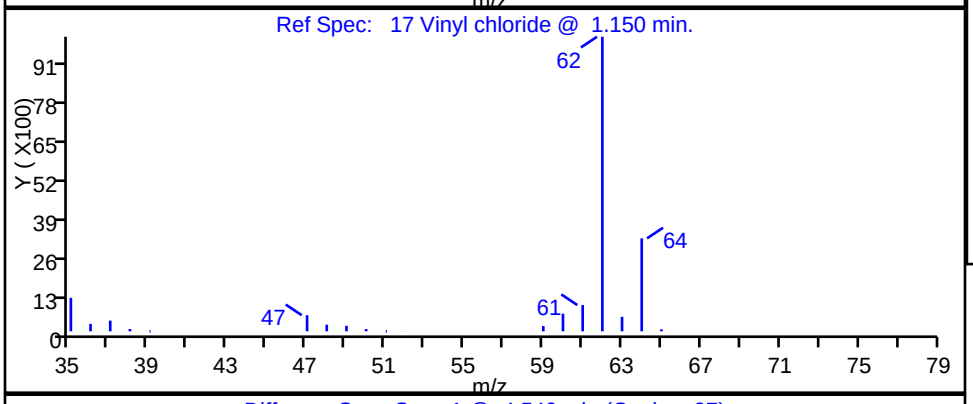
17 Vinyl chloride, CAS: 75-01-4

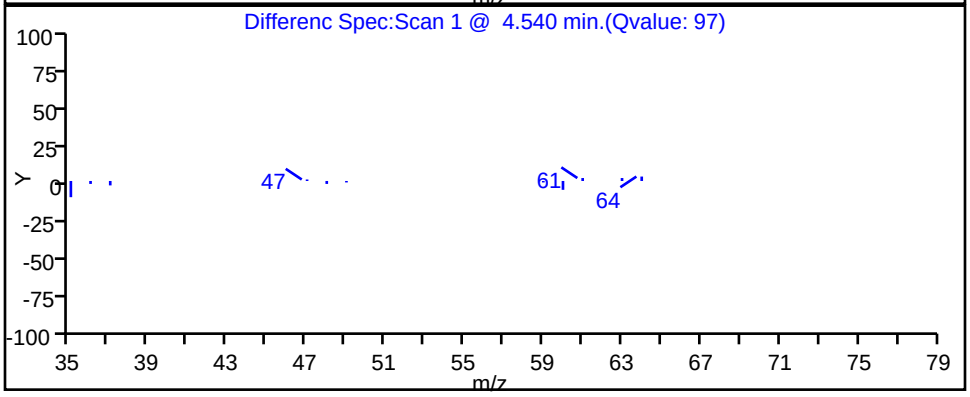












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-29I | Lab Sample ID: 480-102539-21

Matrix: Water | Lab File ID: P7846.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 16:20

Soil Aliquot Vol: | Dilution Factor: 25

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

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

Analysis Batch No.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1200		25	21
79-34-5	1,1,2,2-Tetrachloroethane	25	U	25	5.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	25	7.8
79-00-5	1,1,2-Trichloroethane	25	U	25	5.8
75-34-3	1,1-Dichloroethane	71		25	9.5
75-35-4	1,1-Dichloroethene	93		25	7.3
526-73-8	1,2,3-Trimethylbenzene	25	U	25	6.5
120-82-1	1,2,4-Trichlorobenzene	25	U	25	10
95-63-6	1,2,4-Trimethylbenzene	25	U	25	19
96-12-8	1,2-Dibromo-3-Chloropropane	25	U	25	9.8
106-93-4	1,2-Dibromoethane	25	U	25	18
95-50-1	1,2-Dichlorobenzene	25	U	25	20
107-06-2	1,2-Dichloroethane	25	U	25	5.3
78-87-5	1,2-Dichloropropane	25	U	25	18
108-67-8	1,3,5-Trimethylbenzene	25	U	25	19
541-73-1	1,3-Dichlorobenzene	25	U	25	20
106-46-7	1,4-Dichlorobenzene	25	U	25	21
78-93-3	2-Butanone (MEK)	250	U	250	33
591-78-6	2-Hexanone	130	U	130	31
108-10-1	4-Methyl-2-pentanone (MIBK)	130	U	130	53
67-64-1	Acetone	250	U	250	75
71-43-2	Benzene	25	U	25	10
75-27-4	Bromodichloromethane	25	U	25	9.8
75-25-2	Bromoform	25	U	25	6.5
74-83-9	Bromomethane	25	U	25	17
75-15-0	Carbon disulfide	25	U	25	4.8
56-23-5	Carbon tetrachloride	25	U	25	6.8
108-90-7	Chlorobenzene	25	U	25	19
75-00-3	Chloroethane	25	U	25	8.0
67-66-3	Chloroform	25	U	25	8.5
74-87-3	Chloromethane	25	U	25	8.8
156-59-2	cis-1,2-Dichloroethene	340		25	20
10061-01-5	cis-1,3-Dichloropropene	25	U	25	9.0
110-82-7	Cyclohexane	25	U	25	4.5
124-48-1	Dibromochloromethane	25	U	25	8.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-29I | Lab Sample ID: 480-102539-21

Matrix: Water | Lab File ID: P7846.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 16:20

Soil Aliquot Vol: | Dilution Factor: 25

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

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

Analysis Batch No.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	25	U	25	17
100-41-4	Ethylbenzene	25	U	25	19
98-82-8	Isopropylbenzene	25	U	25	20
79-20-9	Methyl acetate	63	U	63	33
1634-04-4	Methyl tert-butyl ether	25	U	25	4.0
108-87-2	Methylcyclohexane	25	U	25	4.0
75-09-2	Methylene Chloride	25	U	25	11
100-42-5	Styrene	25	U	25	18
127-18-4	Tetrachloroethene	25	U	25	9.0
108-88-3	Toluene	25	U	25	13
156-60-5	trans-1,2-Dichloroethene	25	U	25	23
10061-02-6	trans-1,3-Dichloropropene	25	U	25	9.3
79-01-6	Trichloroethene	370		25	12
75-69-4	Trichlorofluoromethane	25	U	25	22
75-01-4	Vinyl chloride	85		25	23
1330-20-7	Xylenes, Total	50	U	50	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		66-137
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7846.D
Lims ID: 480-102539-A-21
Client ID: 4009-29I
Sample Type: Client
Inject. Date: 06-Jul-2016 16:20:30 ALS Bottle#: 7 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 25.0000
Sample Info: 480-102539-A-21
Misc. Info.: 480-0054607-013
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:38:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.851	9.851	0.000	98	100468	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	206099	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	245693	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.048	9.042	0.006	93	152772	26.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.486	9.480	0.006	0	96659	27.0	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	469753	23.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.302	0.006	95	173681	23.2	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.541	4.547	-0.006	98	19359	3.39	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101	6.262	6.269	-0.007	42	4438	0.5920	
25 1,1-Dichloroethene	96	6.323	6.311	0.012	94	24589	3.70	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63	7.789	7.783	0.006	97	38596	2.84	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	82	108842	13.7	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	98	570755	48.4	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.554				ND	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95	10.308	10.302	0.006	94	109443	14.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

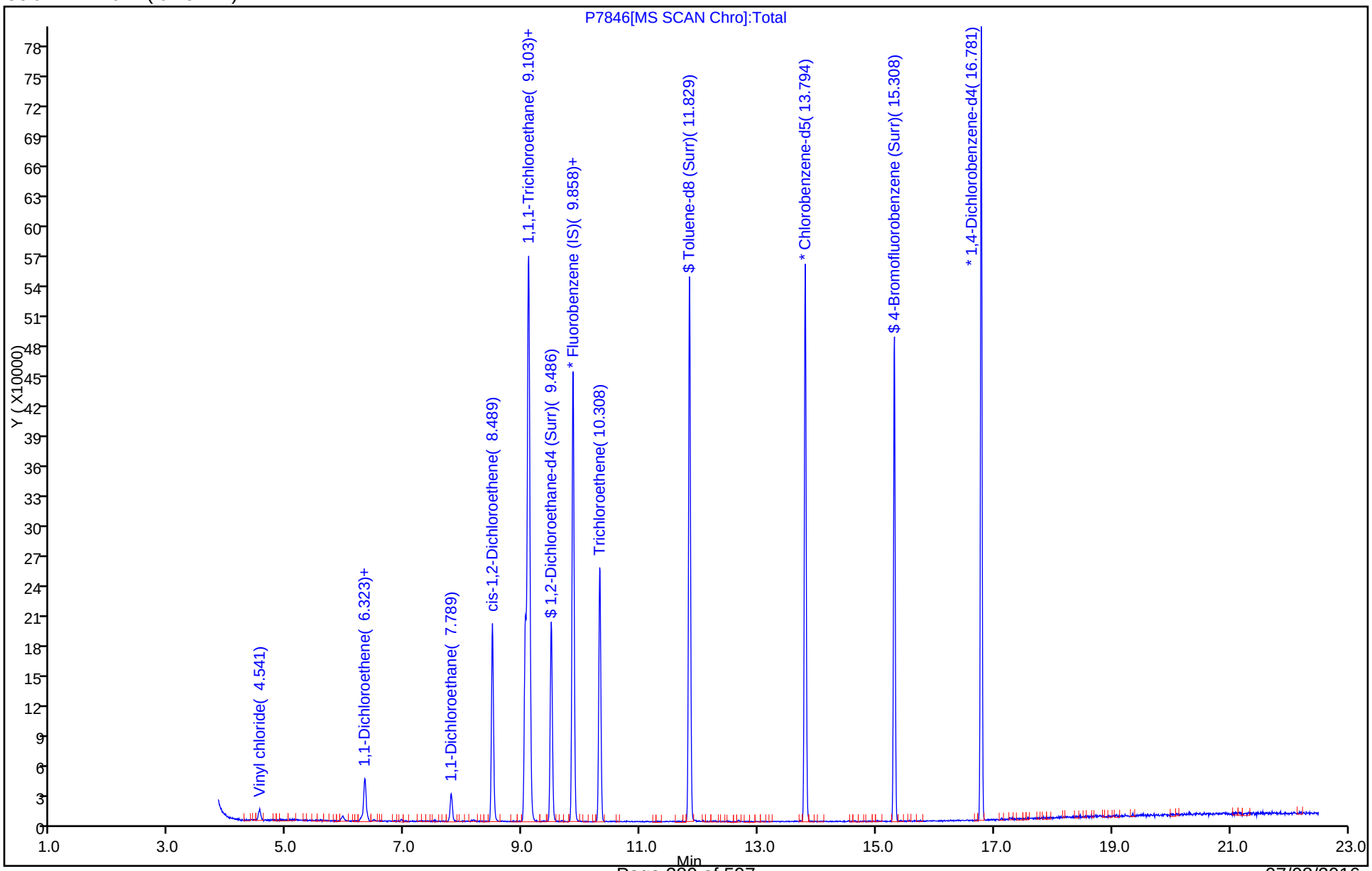
Report Date: 06-Jul-2016 21:38:52 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7846.D

Injection Date:	06-Jul-2016 16:20:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-21	Lab Sample ID:	480-102539-21	Worklist Smp#:	13
Client ID:	4009-29I				
Purge Vol:	5.000 mL	Dil. Factor:	25.0000	ALS Bottle#:	7
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

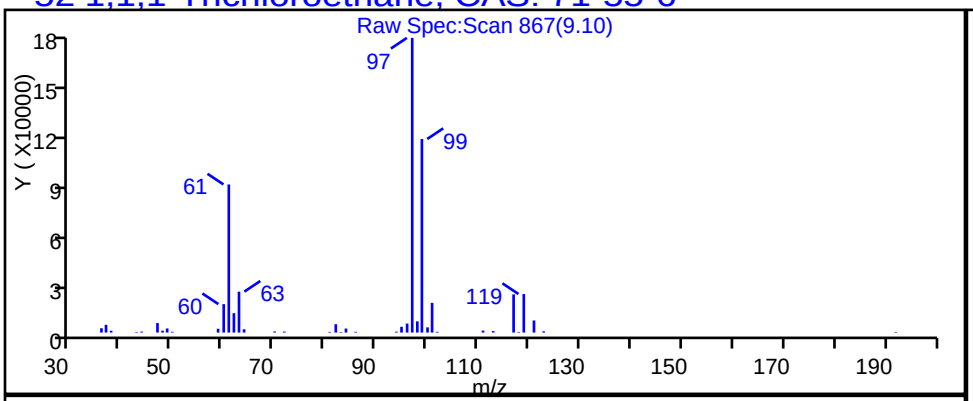
Column: ZB-624 (0.25 mm)

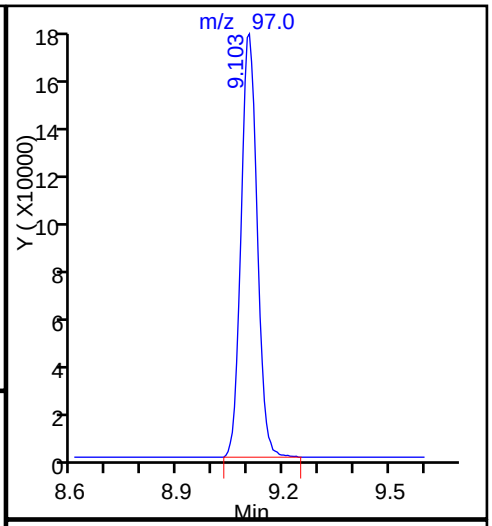


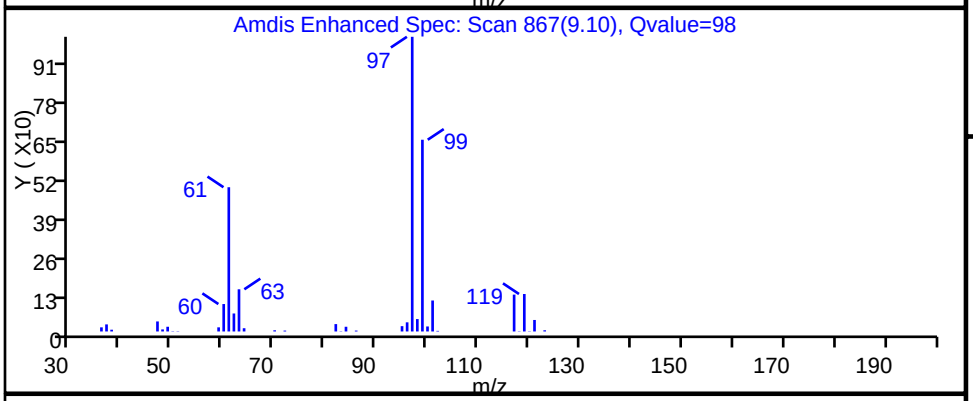
TestAmerica Buffalo

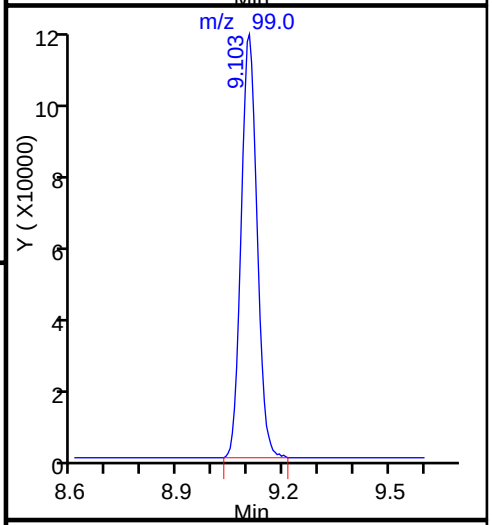
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7846.D				
Injection Date:	06-Jul-2016 16:20:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-21	Lab Sample ID:	480-102539-21		
Client ID:	4009-29I				
Operator ID:	CDC	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

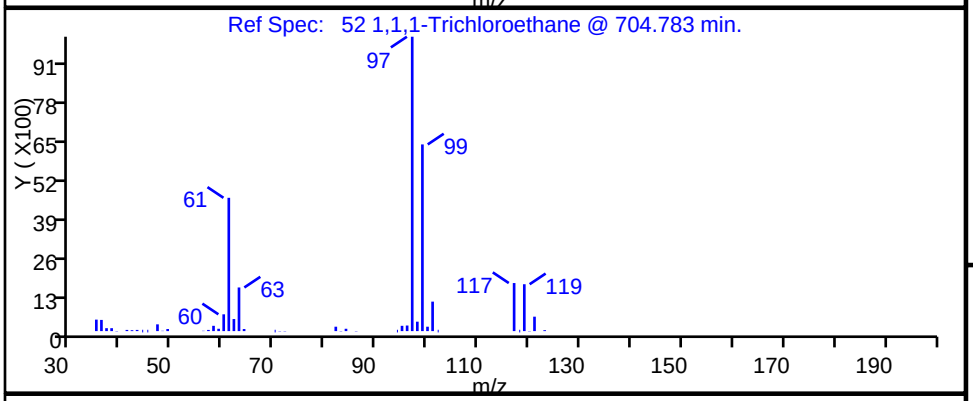
52 1,1,1-Trichloroethane, CAS: 71-55-6

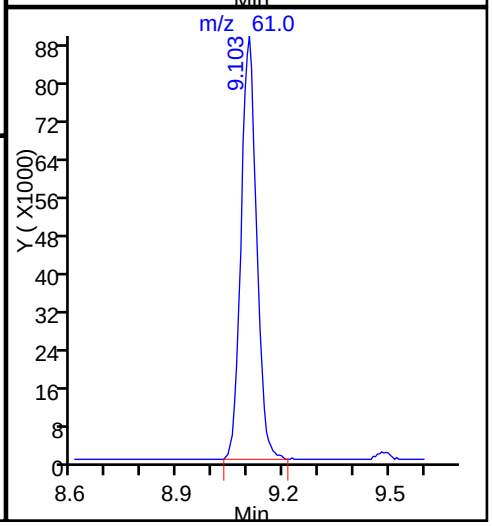


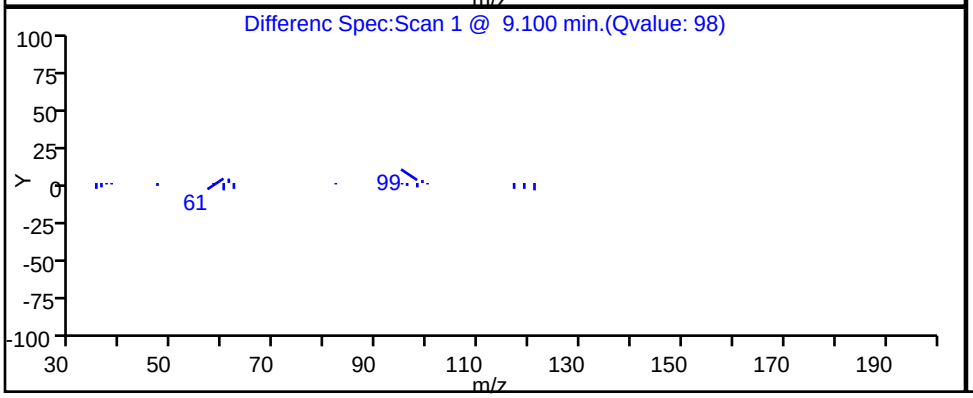










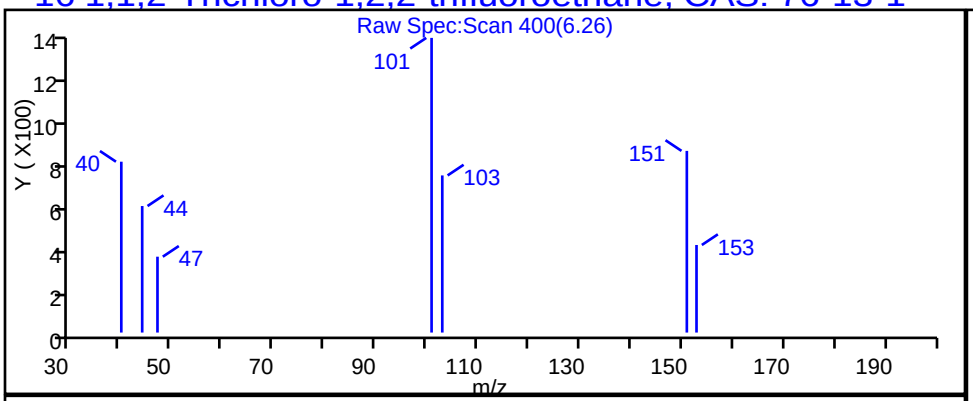


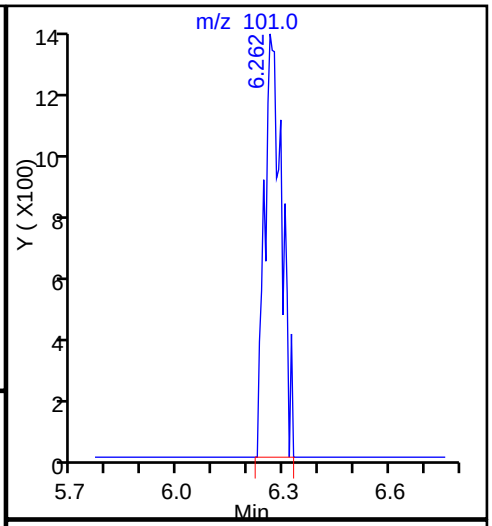
TestAmerica Buffalo

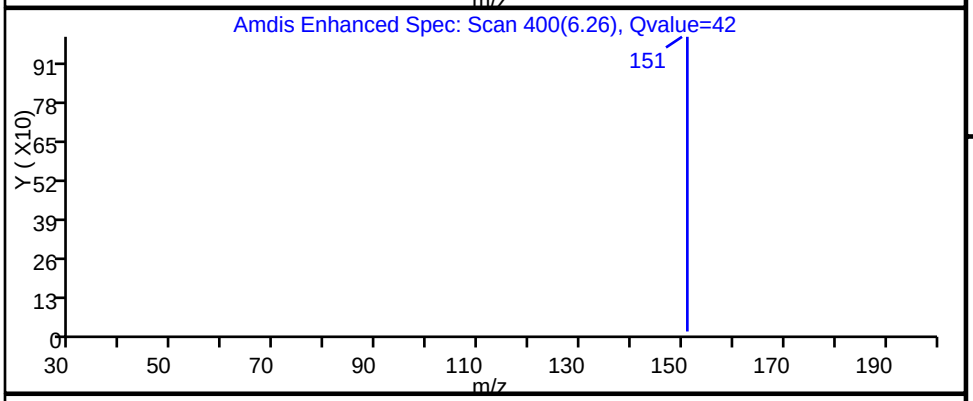
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7846.D

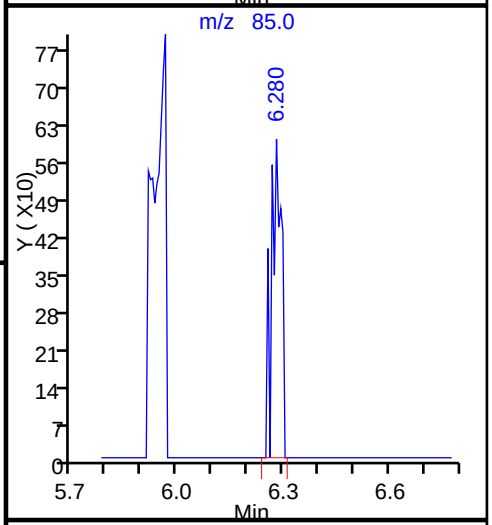
Injection Date:	06-Jul-2016 16:20:30	Instrument ID:	HP5973P
Lims ID:	480-102539-A-21	Lab Sample ID:	480-102539-21
Client ID:	4009-29I		
Operator ID:	CDC	ALS Bottle#:	7 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	25.0000
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

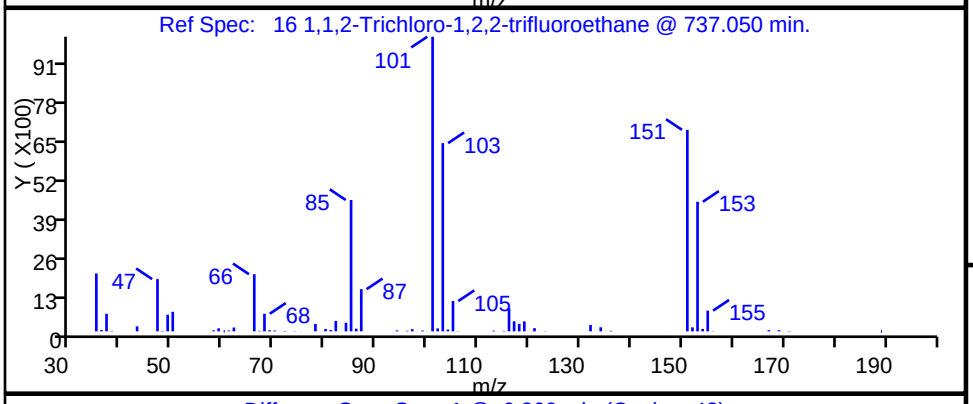
16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

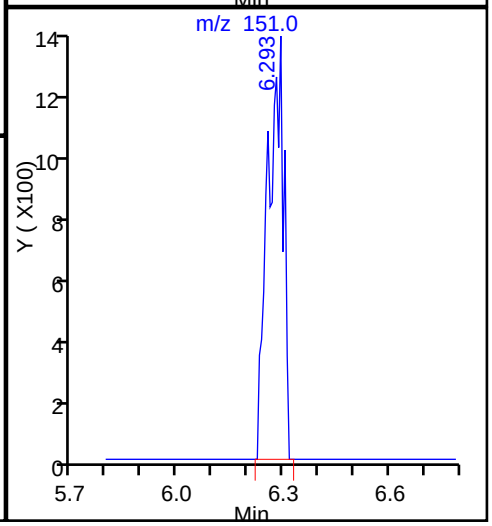


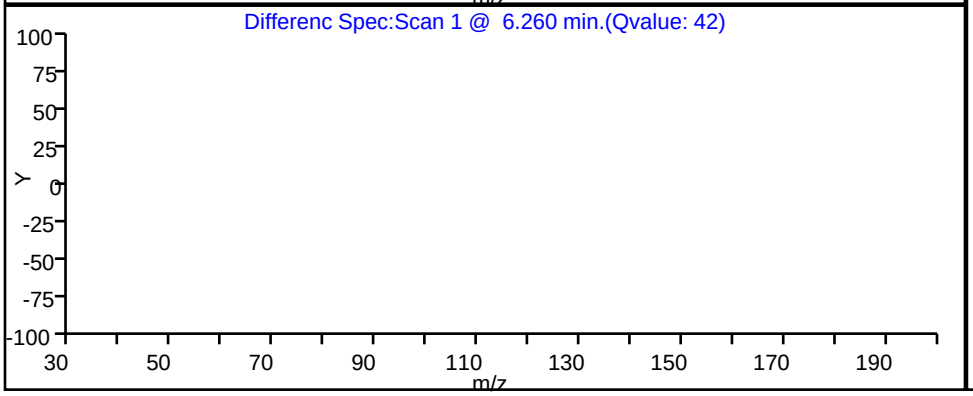










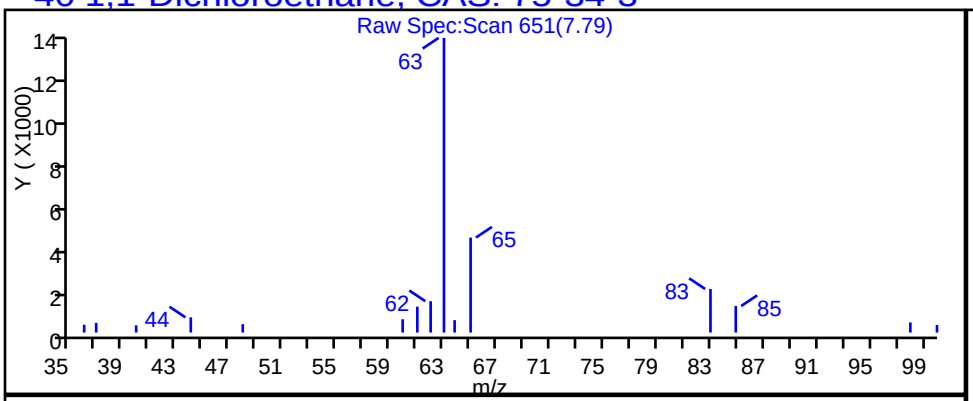


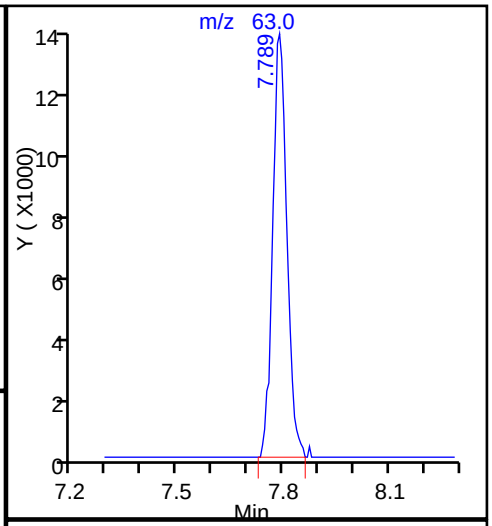
TestAmerica Buffalo

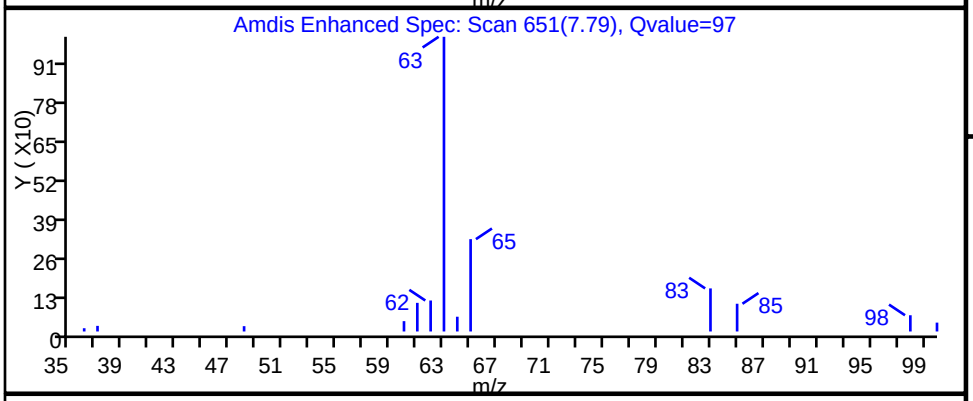
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7846.D

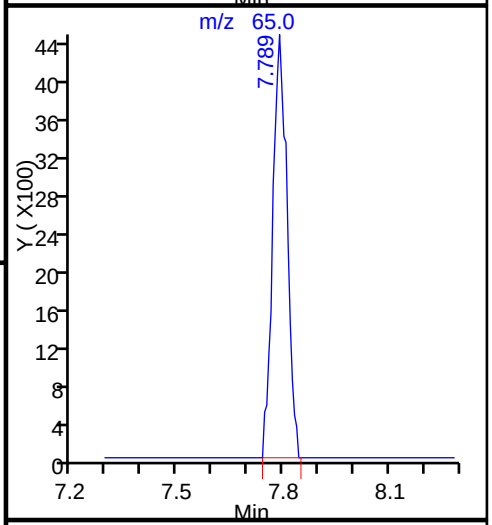
Injection Date:	06-Jul-2016 16:20:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-21	Lab Sample ID:	480-102539-21		
Client ID:	4009-29I				
Operator ID:	CDC	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

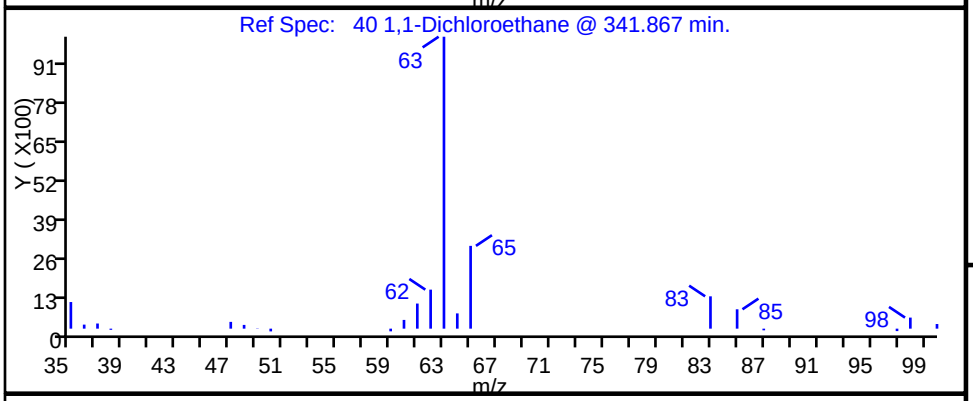
40 1,1-Dichloroethane, CAS: 75-34-3

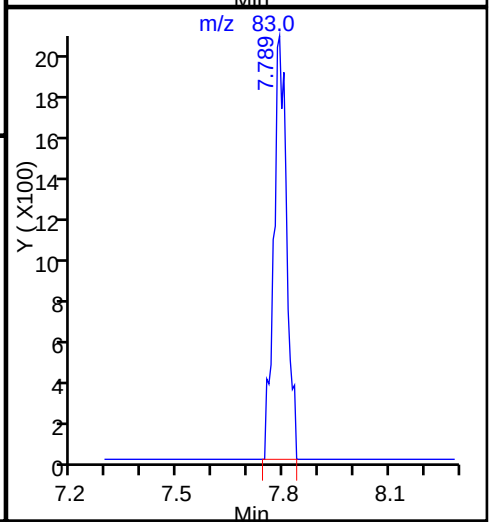


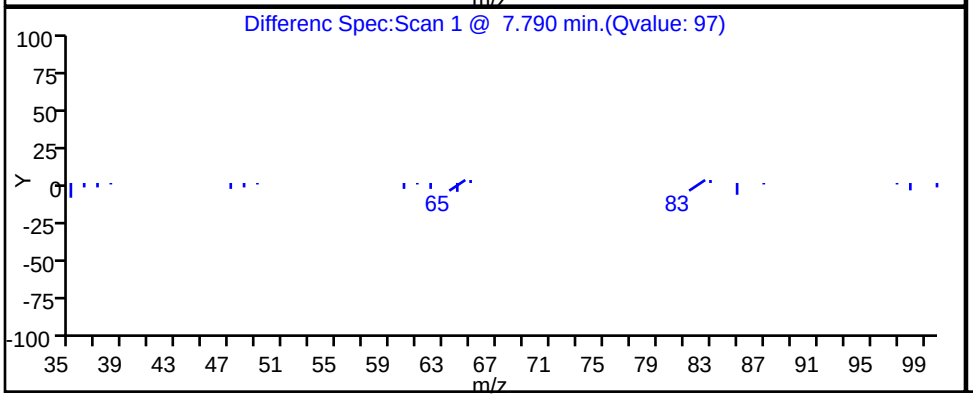








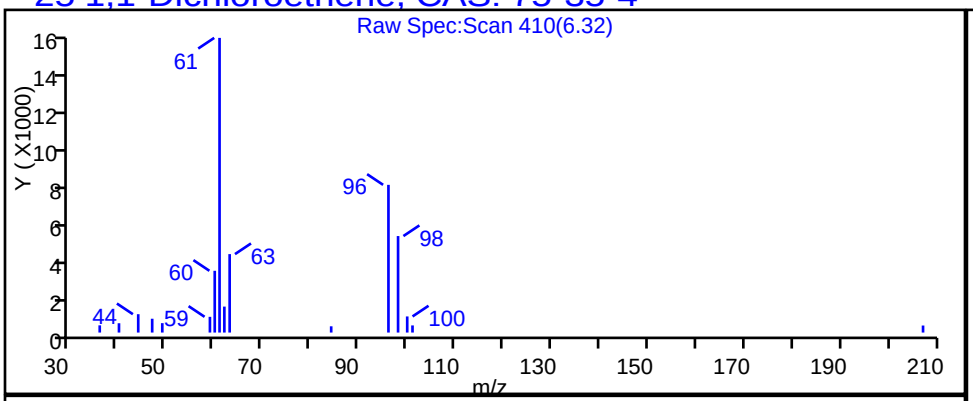


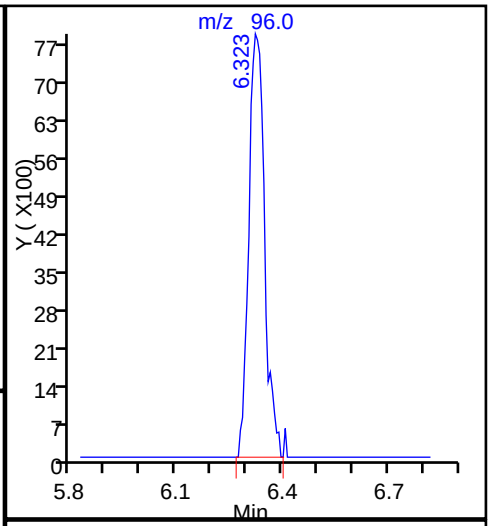


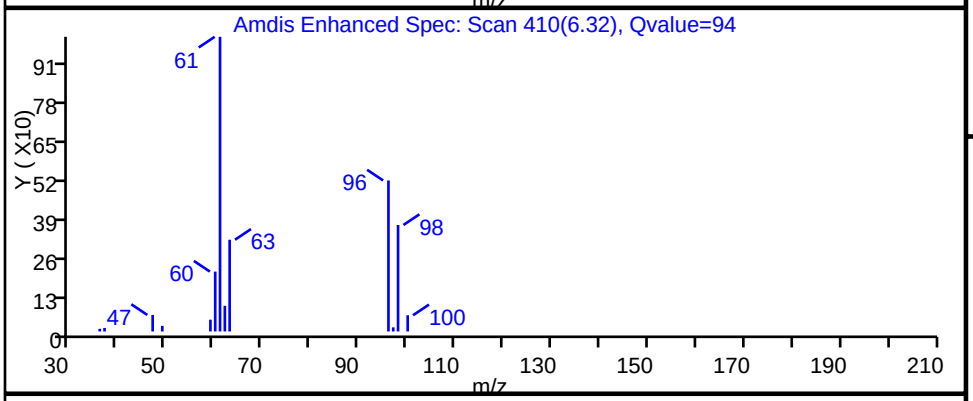
TestAmerica Buffalo

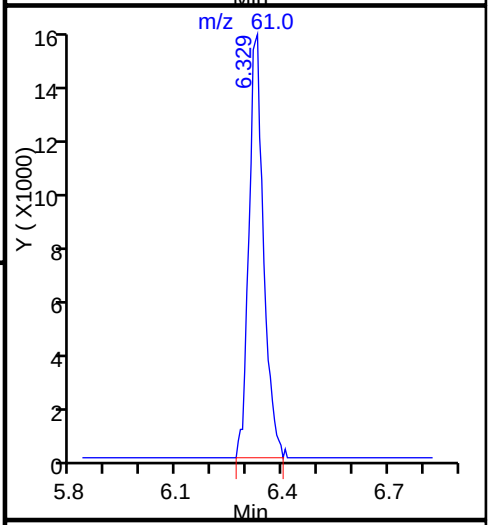
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7846.D		
Injection Date:	06-Jul-2016 16:20:30	Instrument ID:	HP5973P
Lims ID:	480-102539-A-21	Lab Sample ID:	480-102539-21
Client ID:	4009-29I		
Operator ID:	CDC	ALS Bottle#:	7 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	25.0000
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

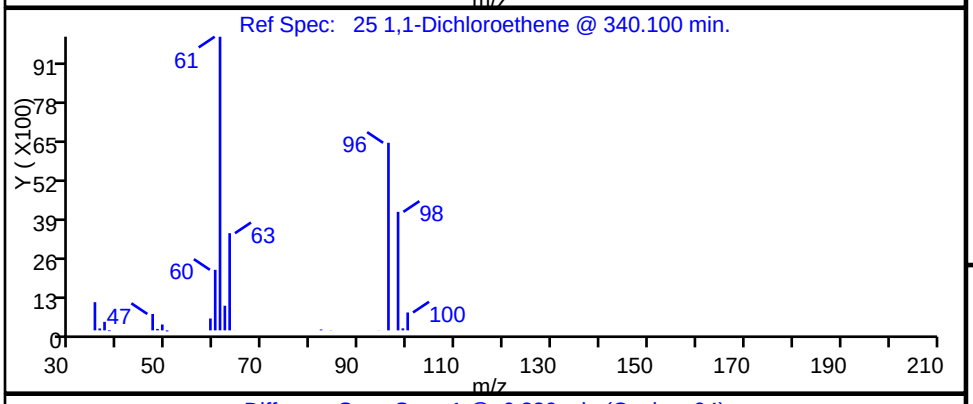
25 1,1-Dichloroethene, CAS: 75-35-4

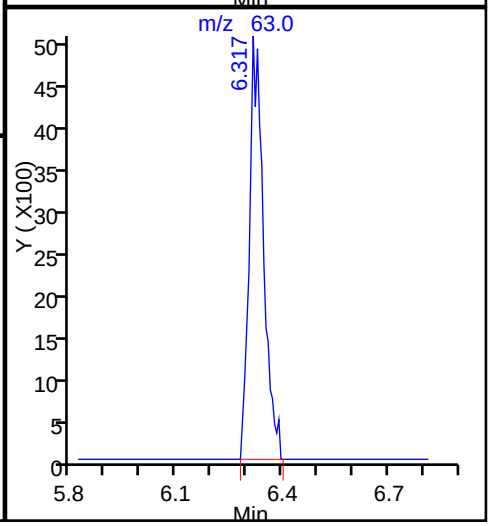


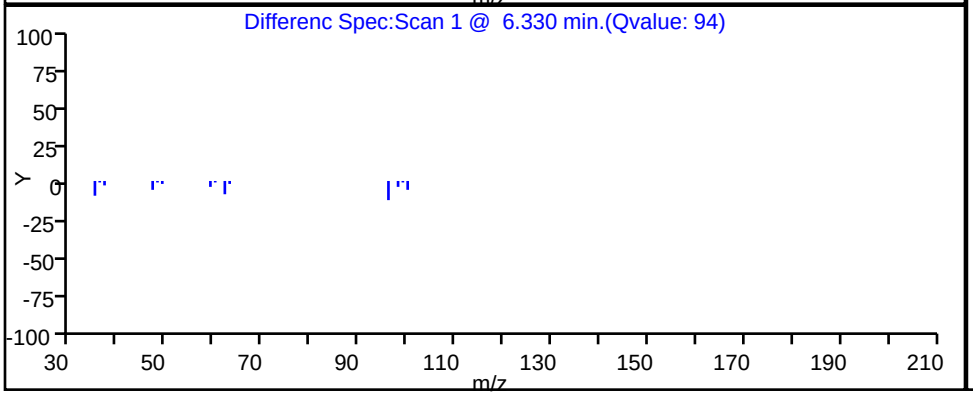








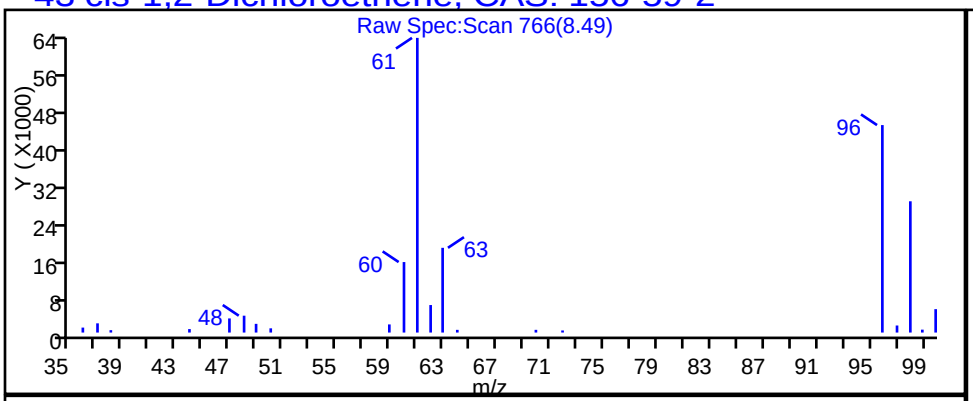


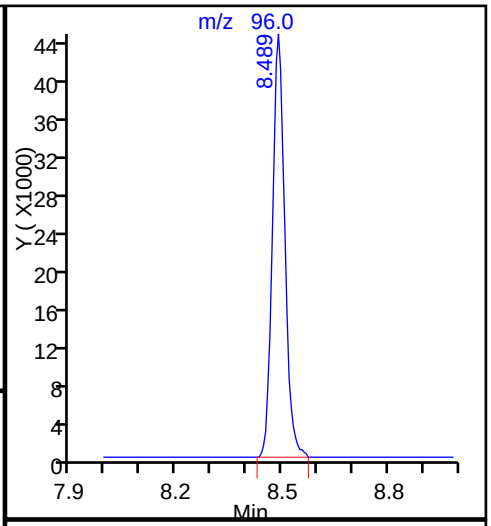


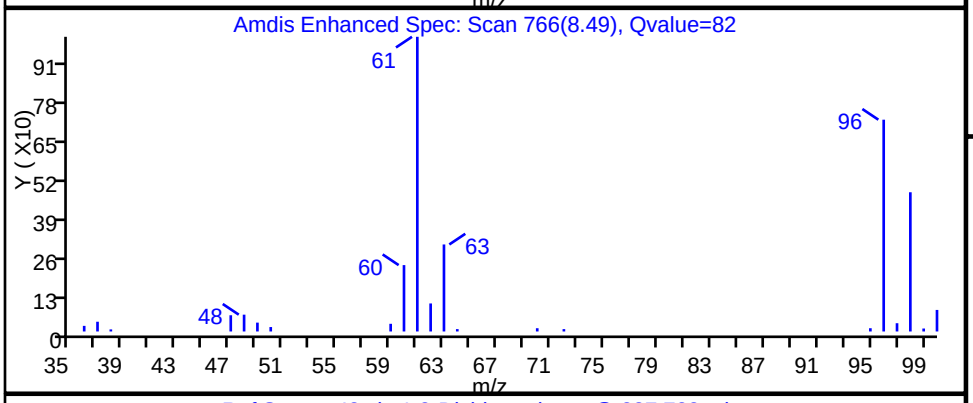
TestAmerica Buffalo

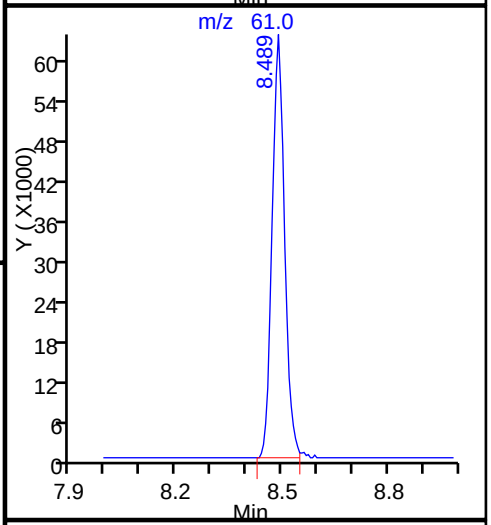
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7846.D				
Injection Date:	06-Jul-2016 16:20:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-21	Lab Sample ID:	480-102539-21		
Client ID:	4009-29I				
Operator ID:	CDC	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

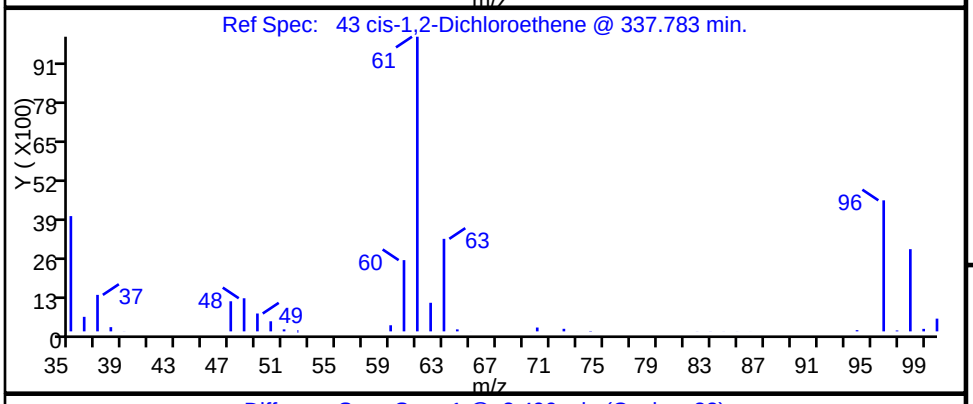
43 cis-1,2-Dichloroethene, CAS: 156-59-2

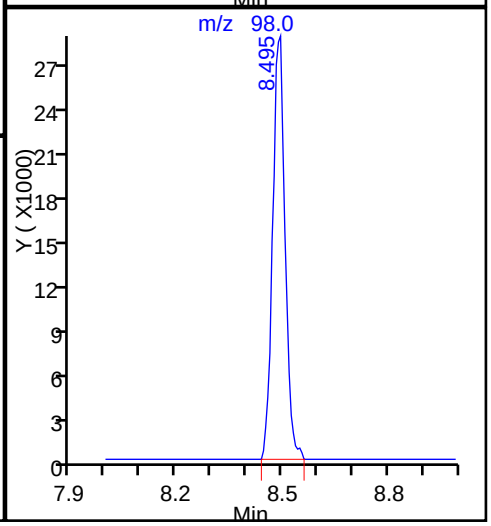


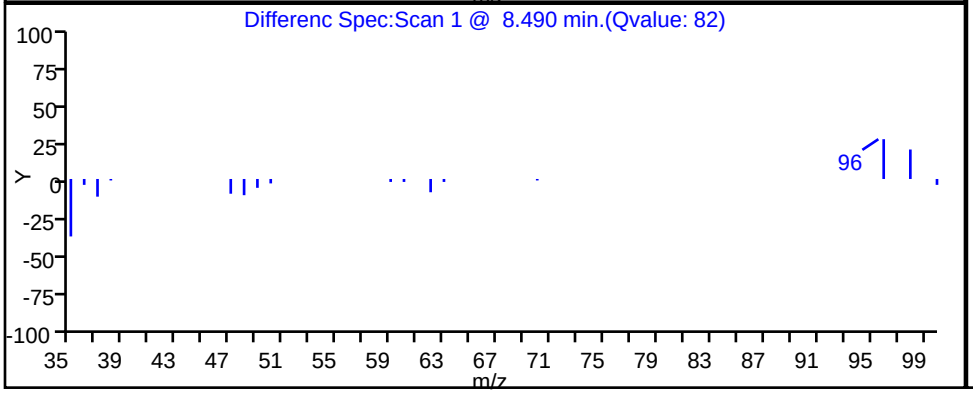








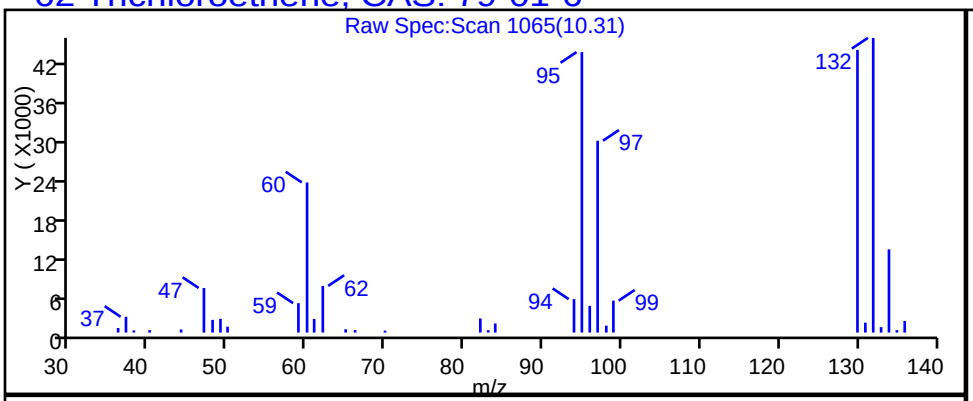


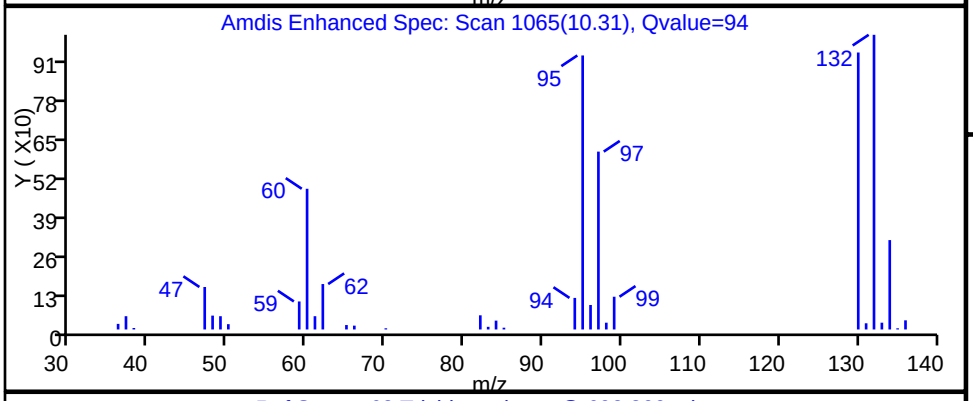


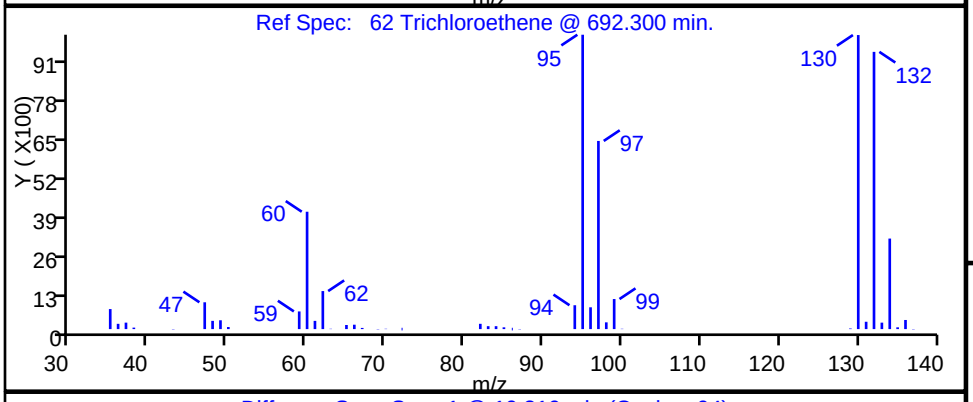
TestAmerica Buffalo

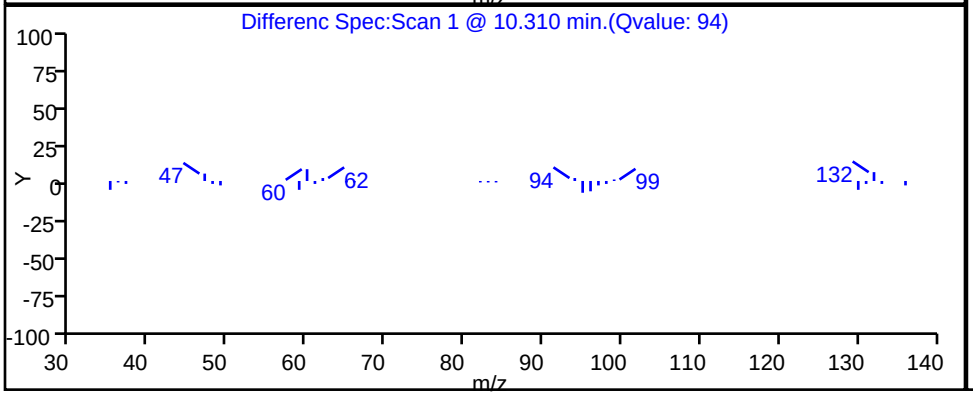
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7846.D				
Injection Date:	06-Jul-2016 16:20:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-21	Lab Sample ID:	480-102539-21		
Client ID:	4009-29I				
Operator ID:	CDC	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

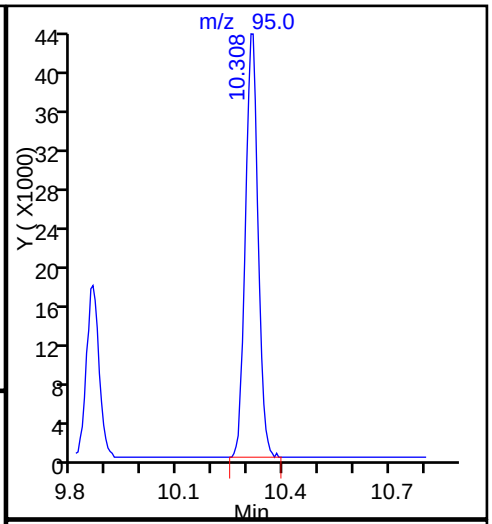
62 Trichloroethene, CAS: 79-01-6

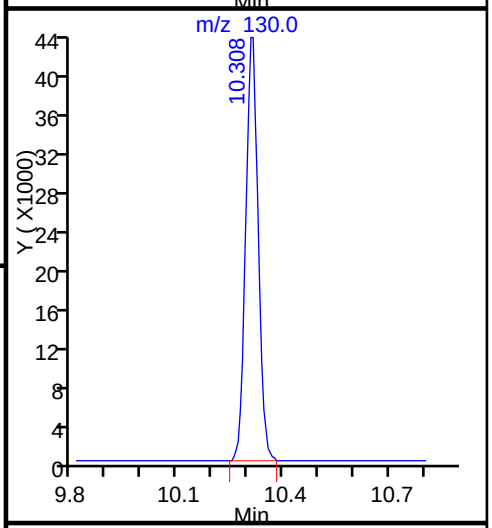


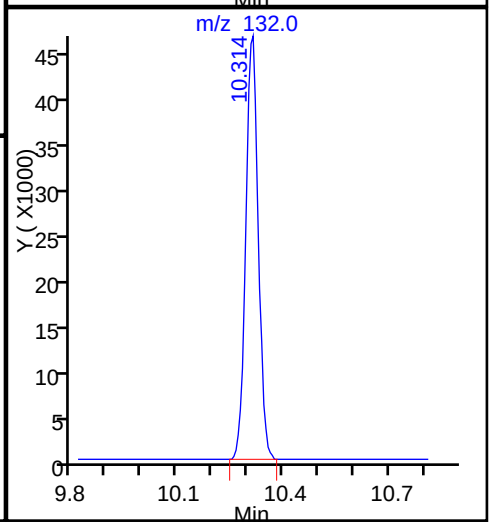








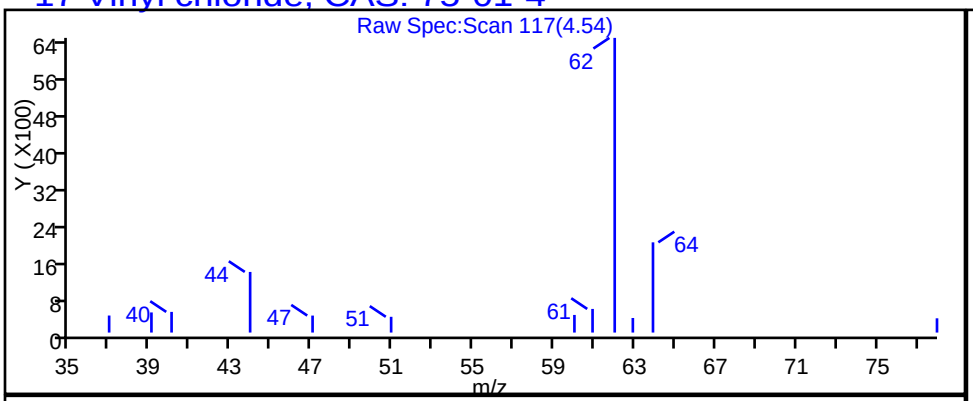


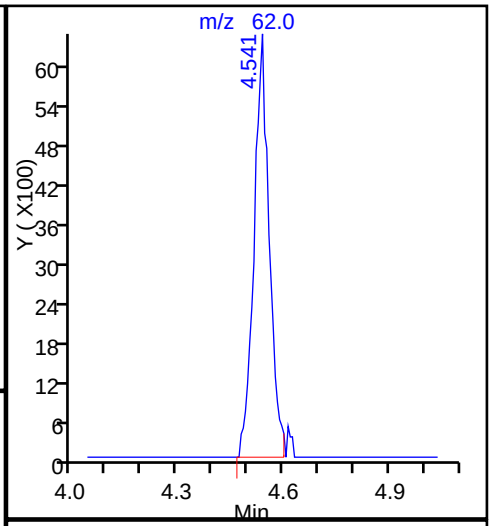


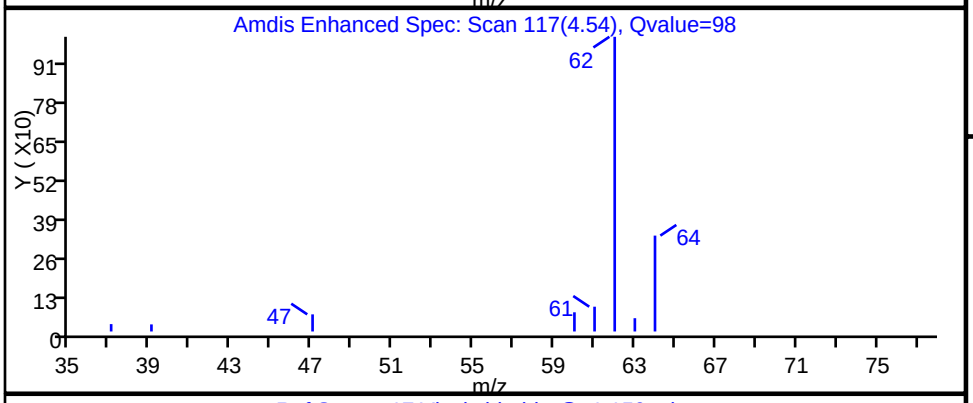
TestAmerica Buffalo

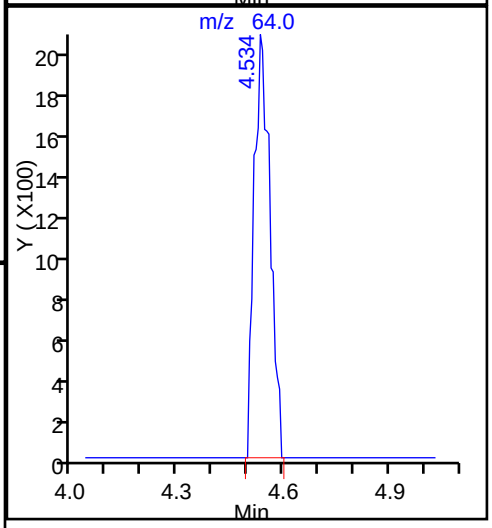
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7846.D				
Injection Date:	06-Jul-2016 16:20:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-21	Lab Sample ID:	480-102539-21		
Client ID:	4009-29I				
Operator ID:	CDC	ALS Bottle#:	7	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

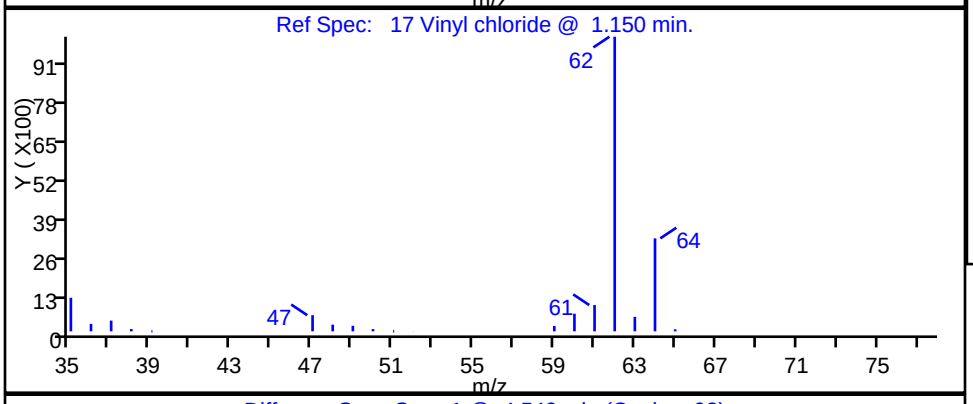
17 Vinyl chloride, CAS: 75-01-4

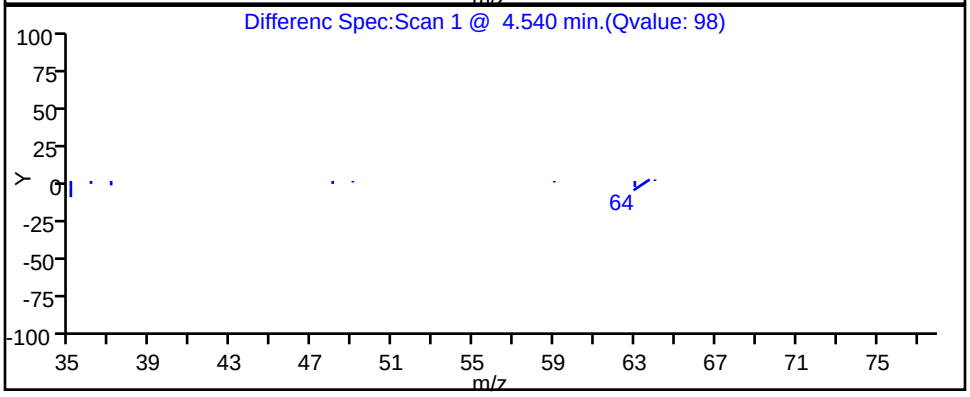












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-29D Lab Sample ID: 480-102539-22

Matrix: Water Lab File ID: P7847.D

Analysis Method: 8260C Date Collected: 06/30/2016 12:40

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2016 16:48

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.: 309873 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	16		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	4.0		1.0	0.38
75-35-4	1,1-Dichloroethene	1.3		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	1.5		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	5.7		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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-29D | Lab Sample ID: 480-102539-22

Matrix: Water | Lab File ID: P7847.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 16:48

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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	2.0		1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	7.5		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)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7847.D
Lims ID: 480-102539-A-22
Client ID: 4009-29D
Sample Type: Client
Inject. Date: 06-Jul-2016 16:48:30 ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-22
Misc. Info.: 480-0054607-014
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:38:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.852	9.851	0.001	98	98500	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	204004	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	243451	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.042	0.007	93	150790	26.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.480	0.007	0	91890	26.2	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	458997	23.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.007	93	169481	22.8	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.541	4.547	-0.006	98	41934	7.49	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64	5.234	5.228	0.006	98	6385	1.50	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269				ND	
25 1,1-Dichloroethene	96	6.323	6.311	0.012	92	8359	1.28	
24 Acetone	43	6.360	6.354	0.006	66	5732	1.70	7
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63	7.789	7.783	0.006	97	53867	4.04	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	82	44235	5.67	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	98	186420	16.1	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.554				ND	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95	10.308	10.302	0.006	93	14601	2.00	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

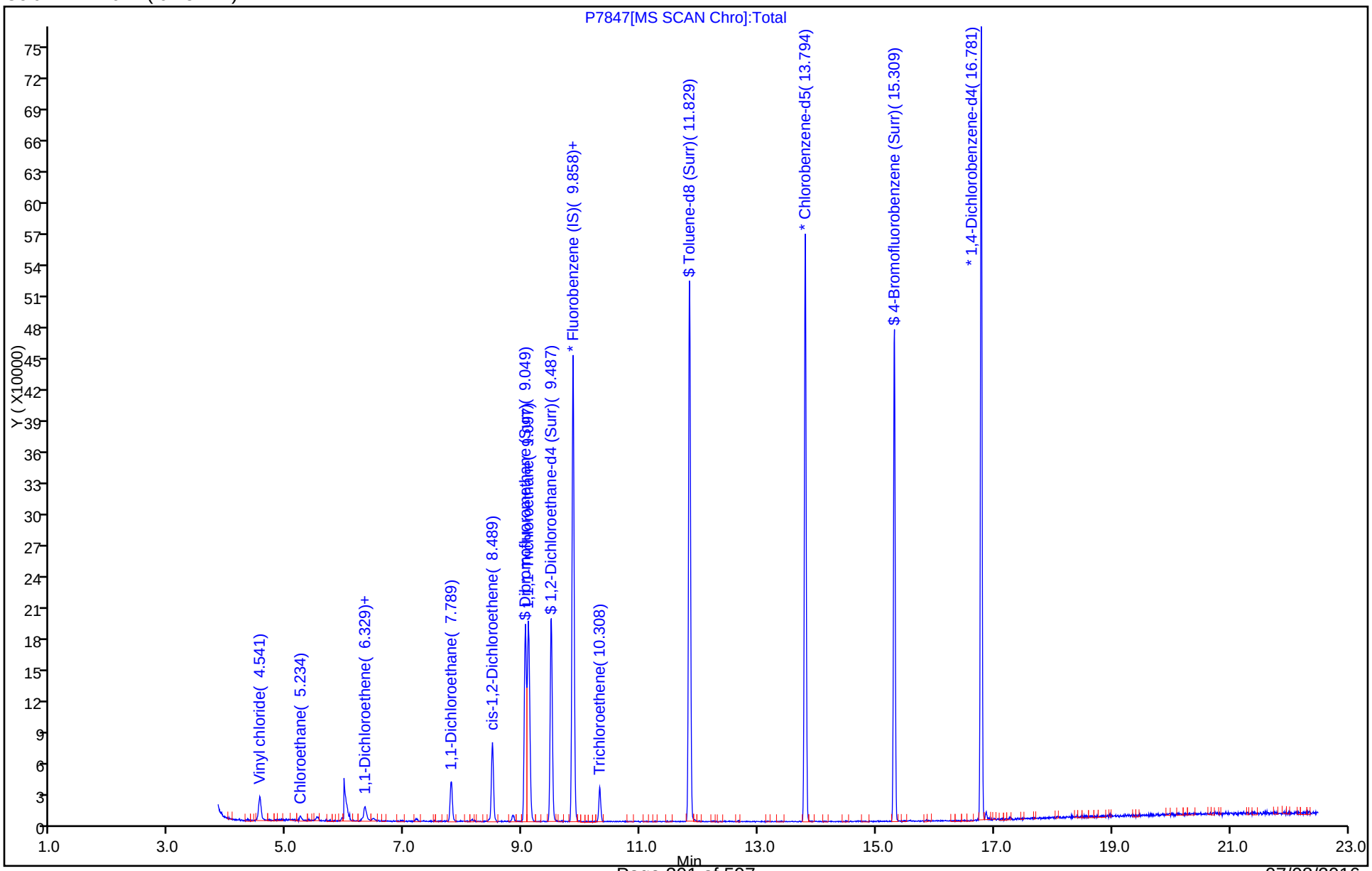
Report Date: 06-Jul-2016 21:38:56 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7847.D

Injection Date:	06-Jul-2016 16:48:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-22	Lab Sample ID:	480-102539-22	Worklist Smp#:	14
Client ID:	4009-29D				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



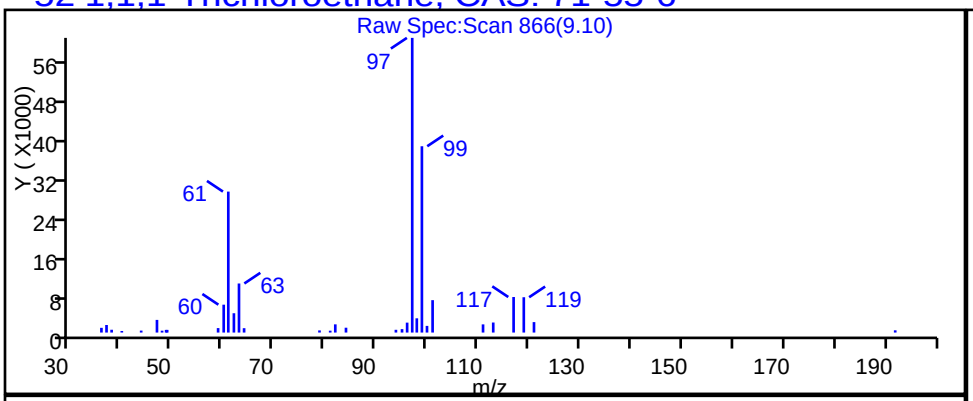
Report Date: 06-Jul-2016 21:38:56 Chrom Revision: 2.2 20-Apr-2016 13:59:46

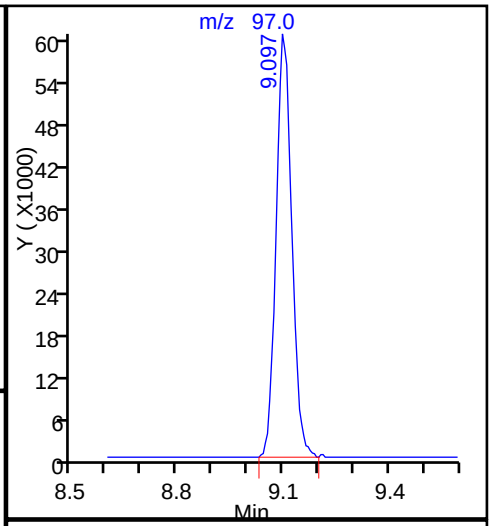
TestAmerica Buffalo

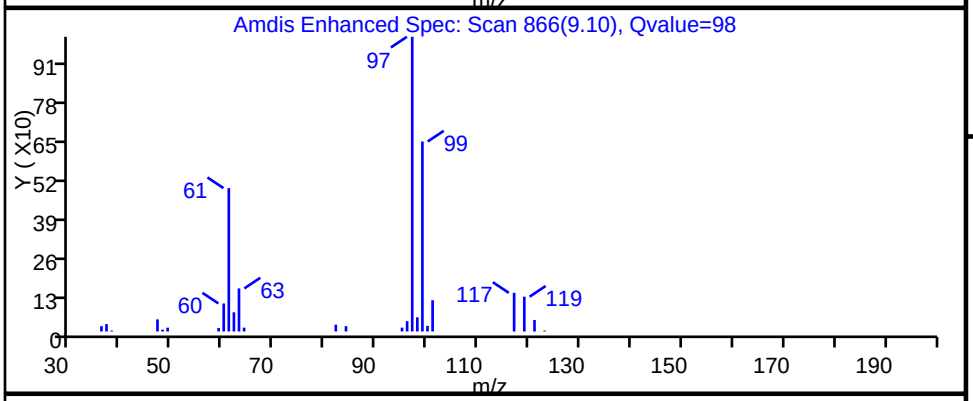
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7847.D

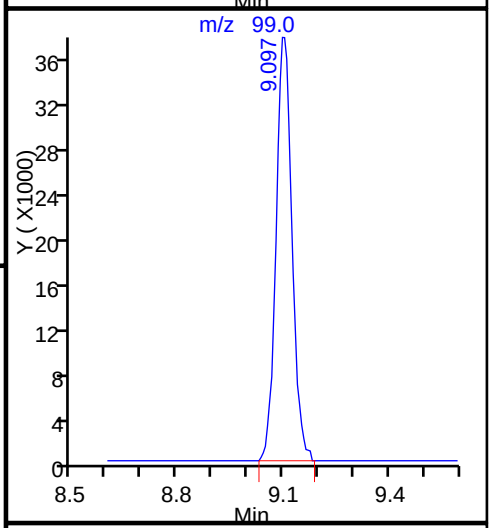
Injection Date:	06-Jul-2016 16:48:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-22	Lab Sample ID:	480-102539-22		
Client ID:	4009-29D				
Operator ID:	CDC	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

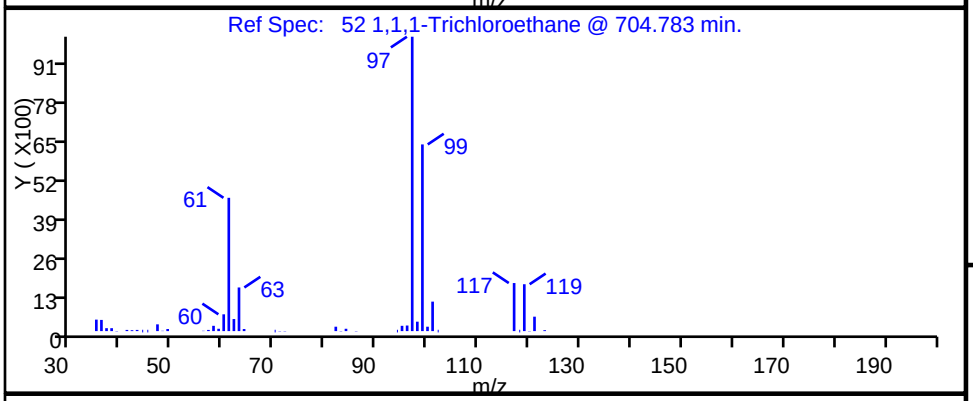
52 1,1,1-Trichloroethane, CAS: 71-55-6

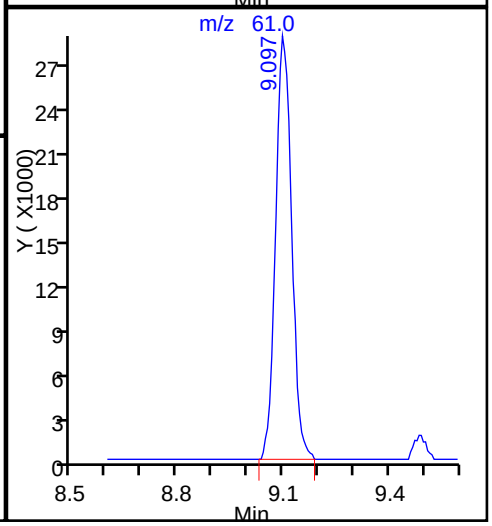


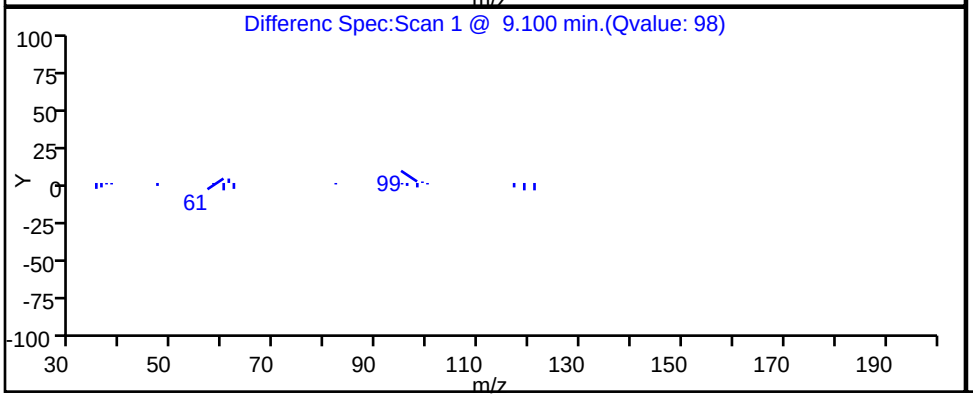










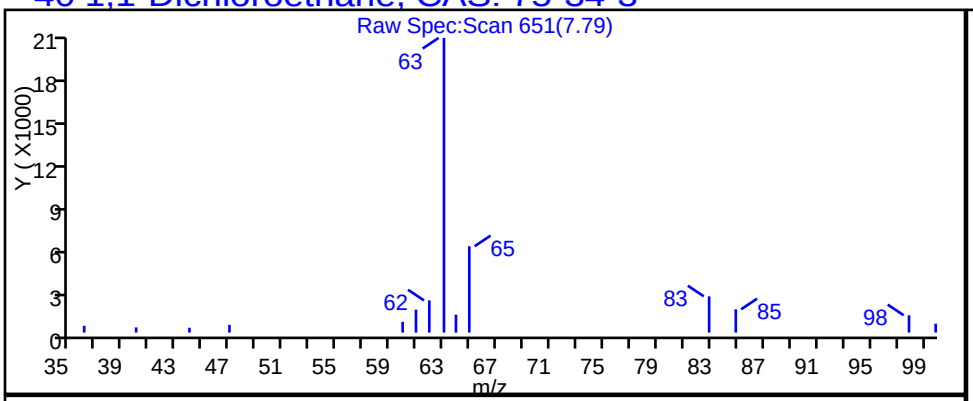


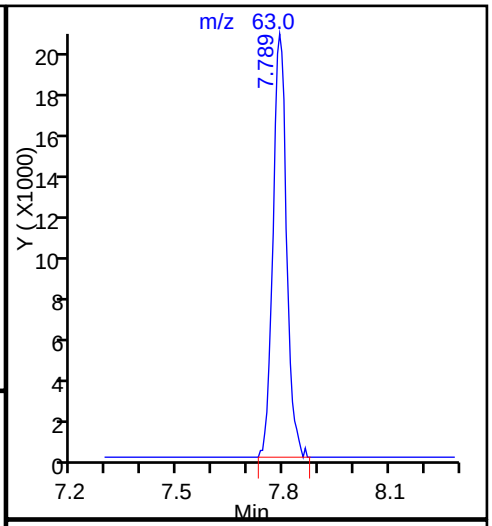
TestAmerica Buffalo

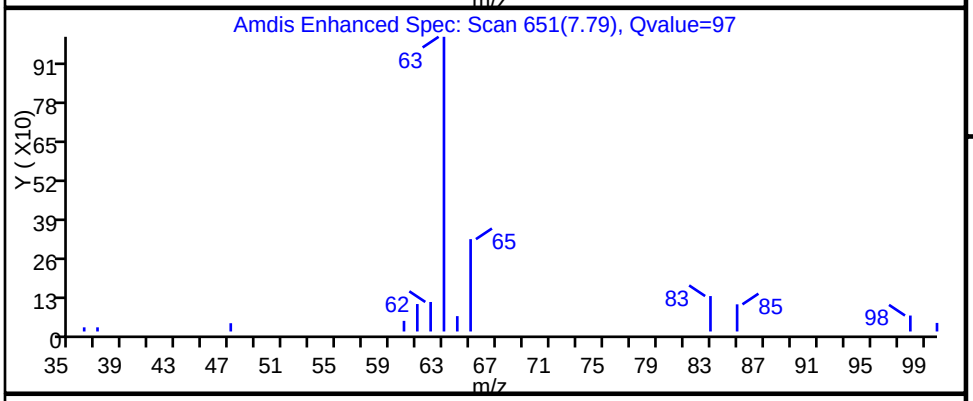
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7847.D

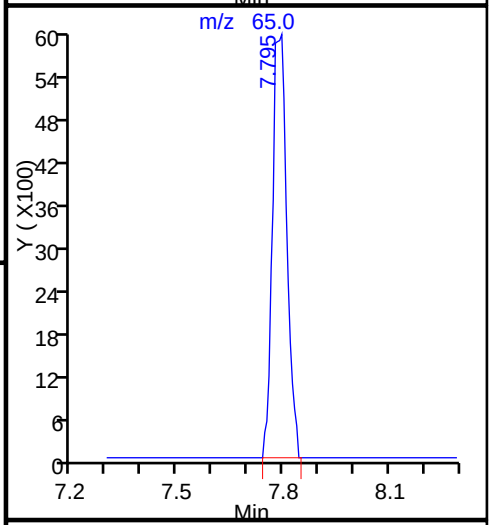
Injection Date:	06-Jul-2016 16:48:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-22	Lab Sample ID:	480-102539-22		
Client ID:	4009-29D				
Operator ID:	CDC	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

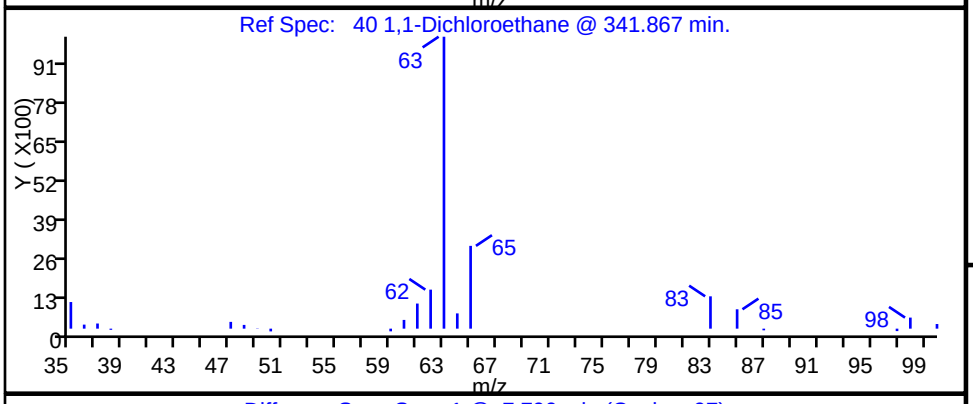
40 1,1-Dichloroethane, CAS: 75-34-3

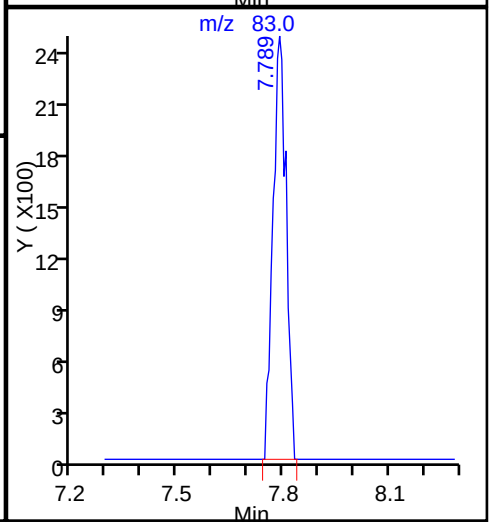


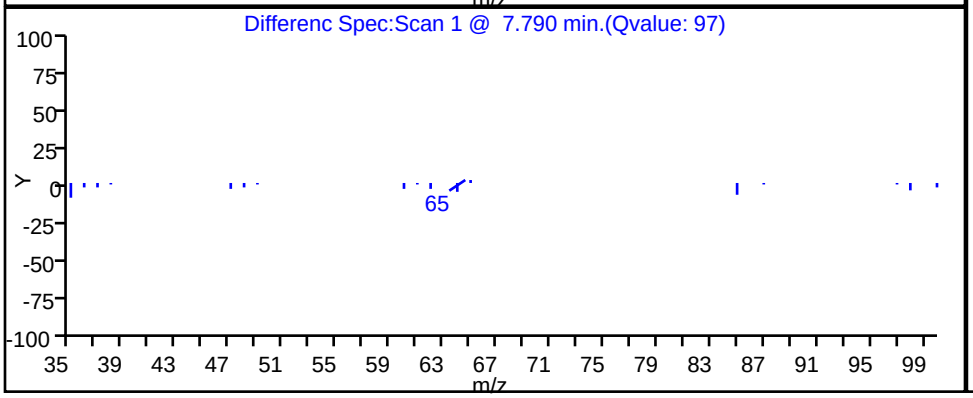








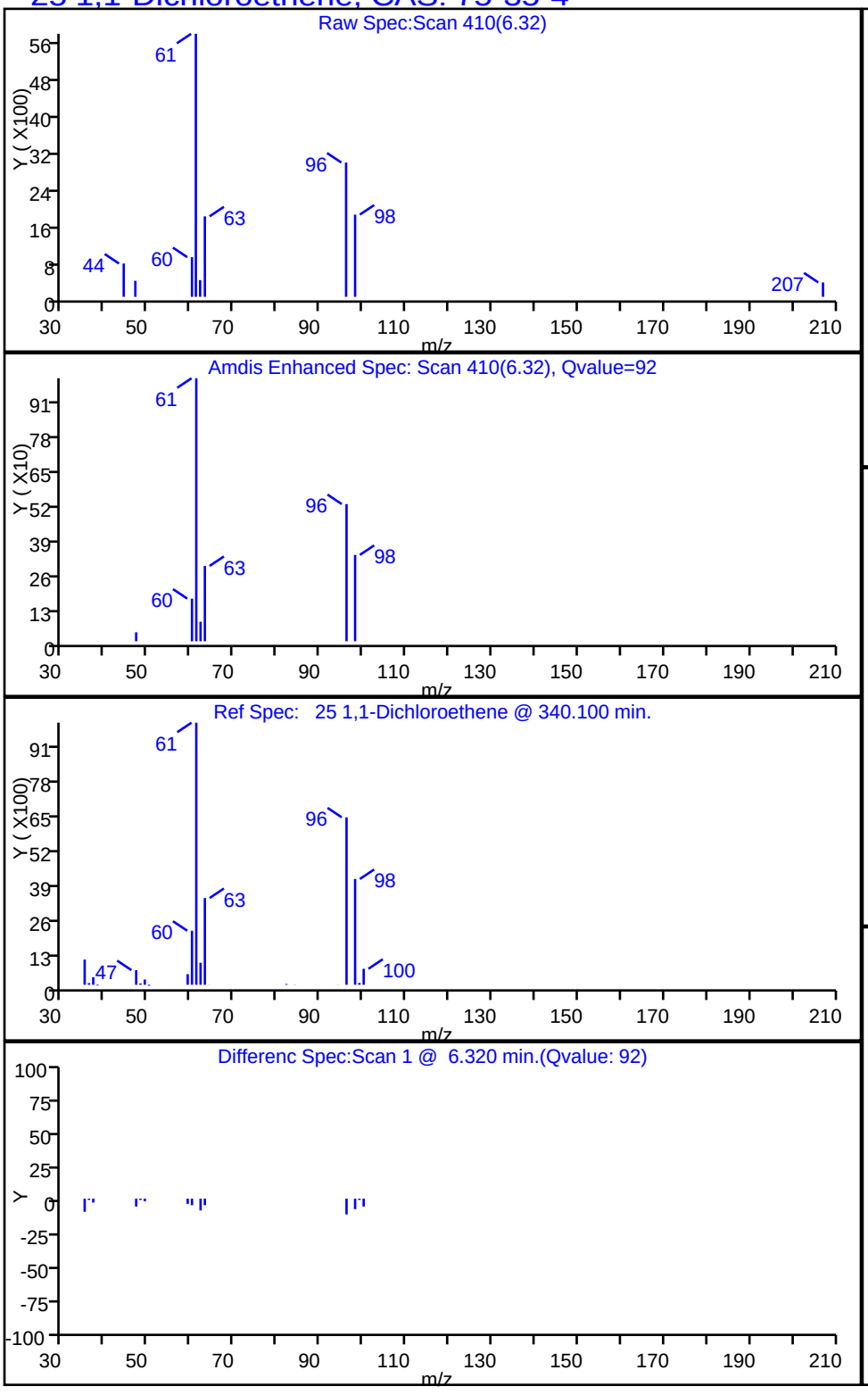


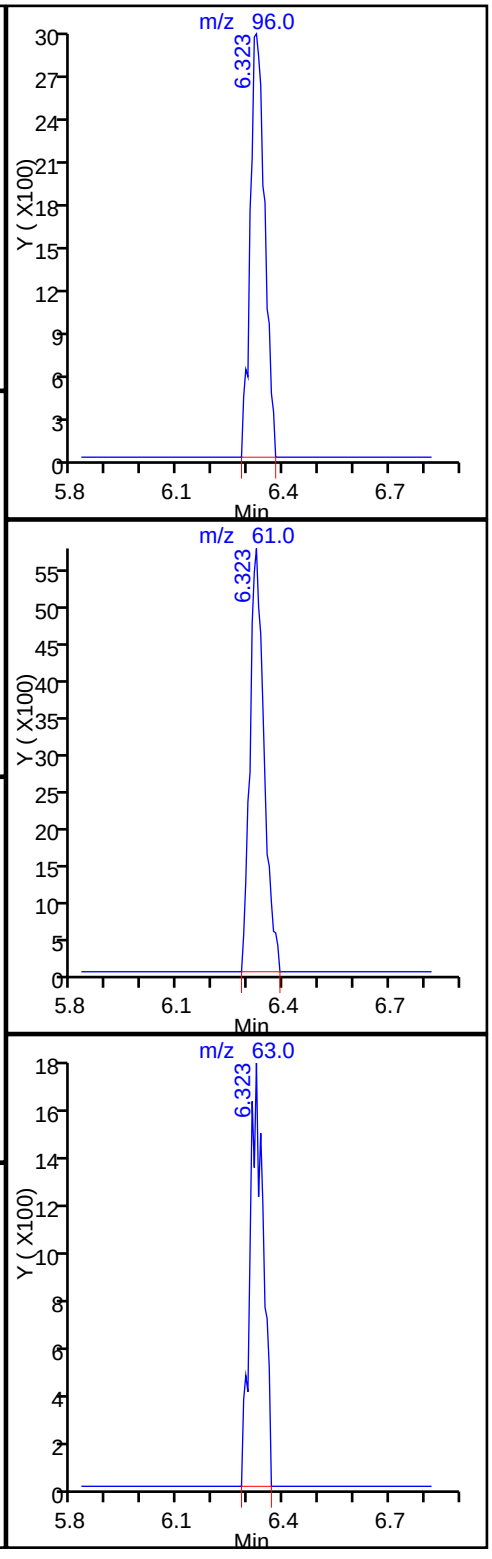


TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7847.D				
Injection Date:	06-Jul-2016 16:48:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-22	Lab Sample ID:	480-102539-22		
Client ID:	4009-29D				
Operator ID:	CDC	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

25 1,1-Dichloroethene, CAS: 75-35-4

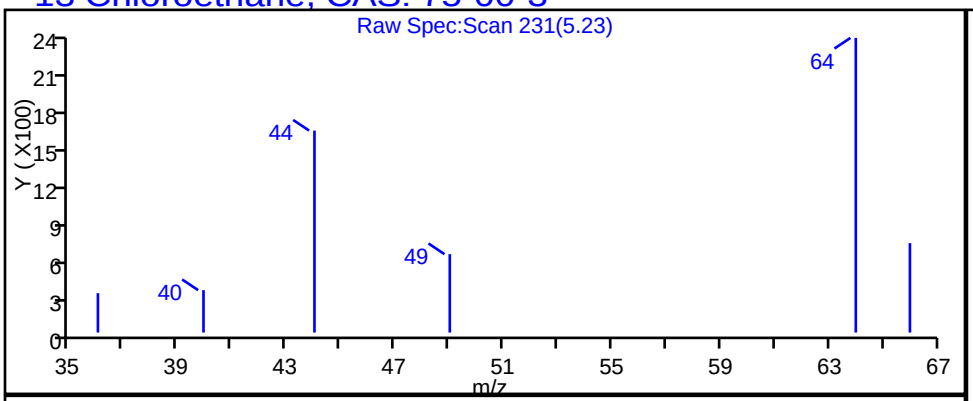


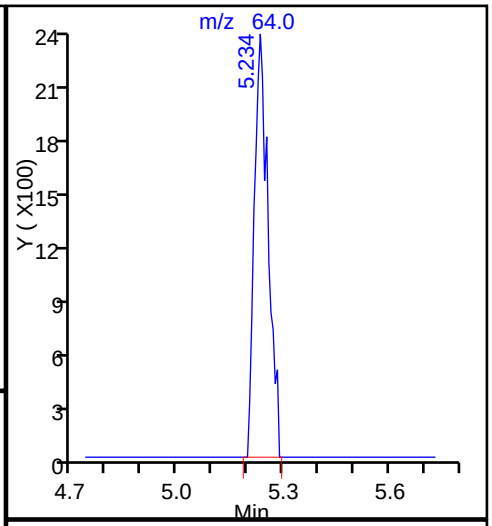


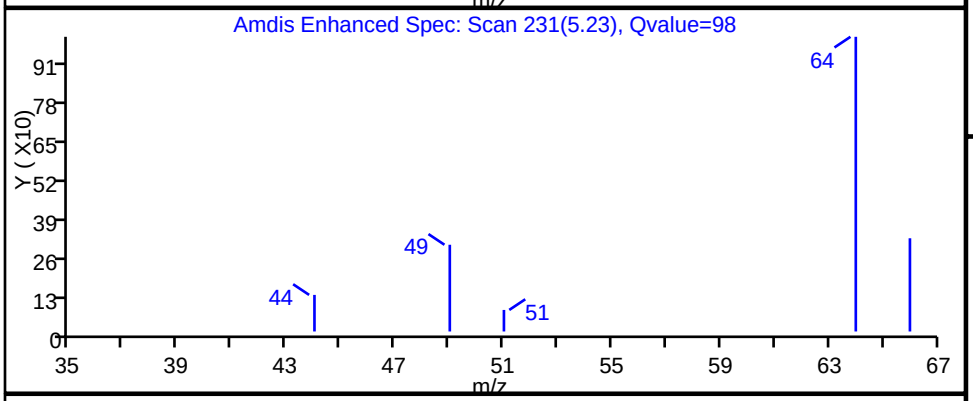
TestAmerica Buffalo

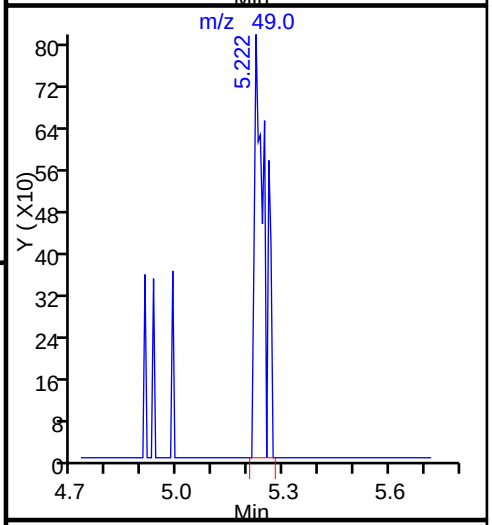
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7847.D				
Injection Date:	06-Jul-2016 16:48:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-22	Lab Sample ID:	480-102539-22		
Client ID:	4009-29D				
Operator ID:	CDC	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

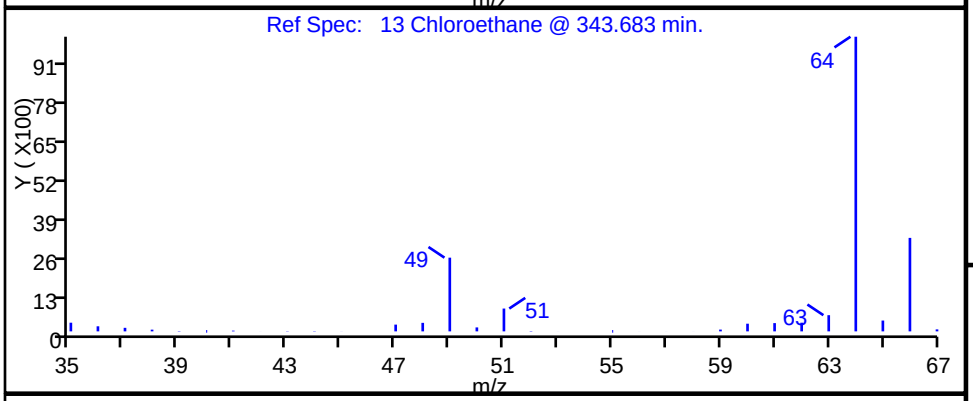
13 Chloroethane, CAS: 75-00-3

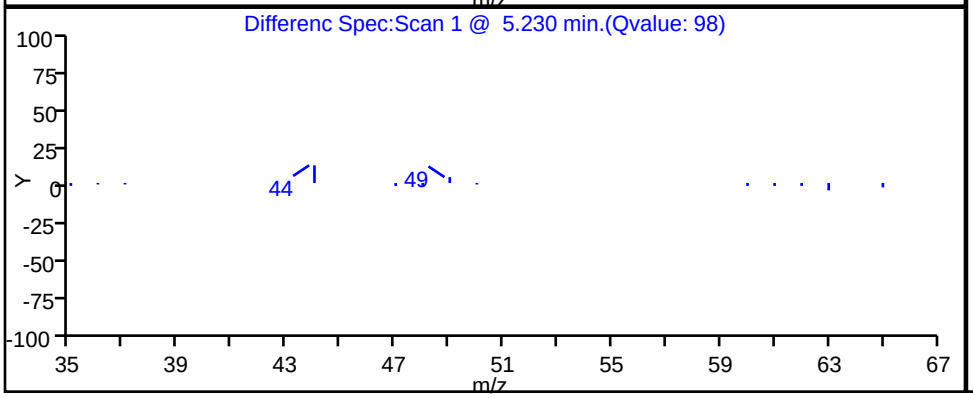


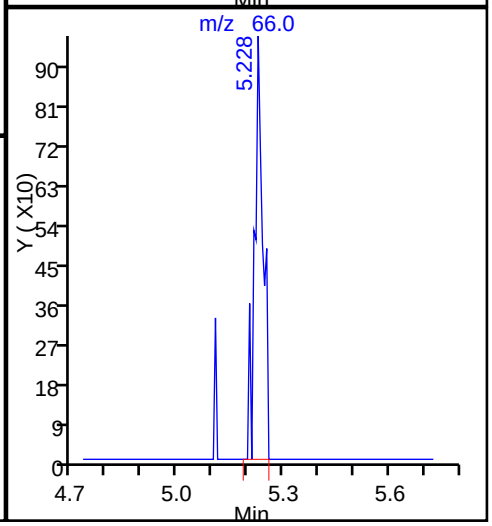






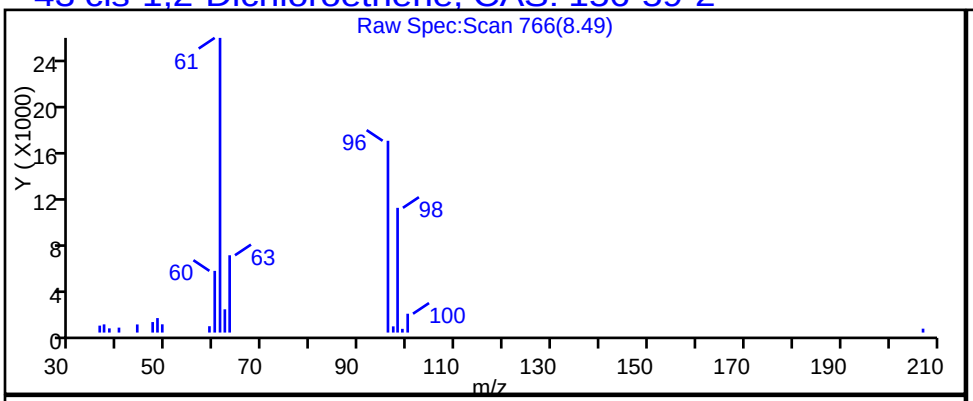


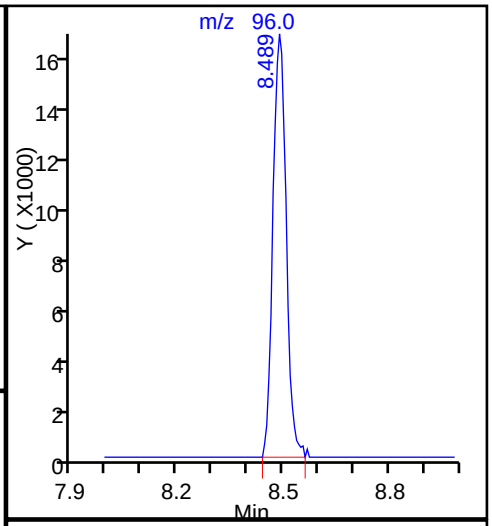


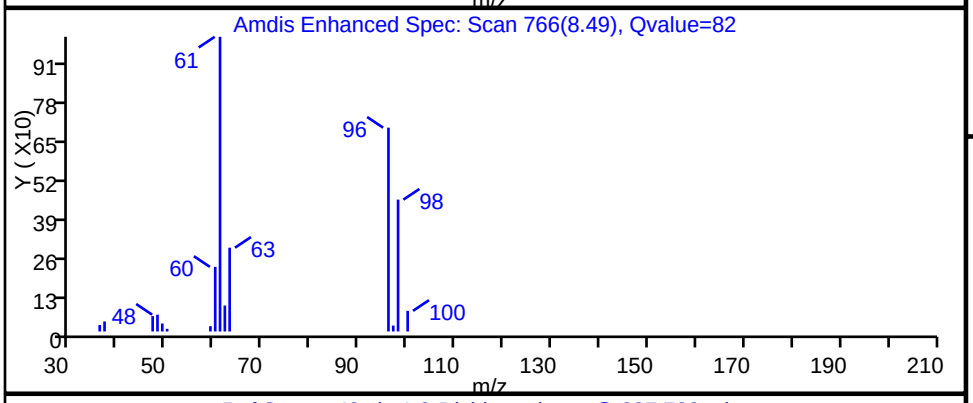


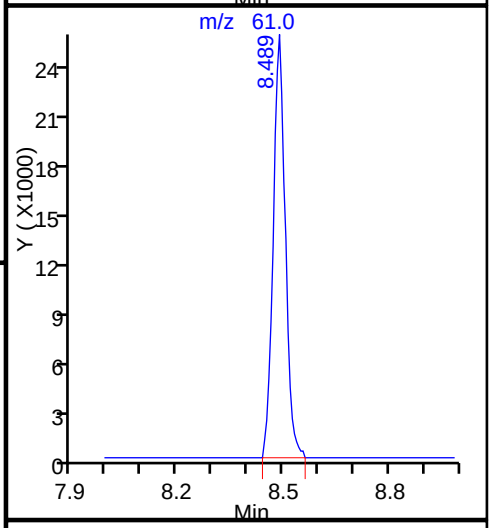
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7847.D
Injection Date: 06-Jul-2016 16:48:30 Instrument ID: HP5973P
Lims ID: 480-102539-A-22 Lab Sample ID: 480-102539-22
Client ID: 4009-29D
Operator ID: CDC ALS Bottle#: 8 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

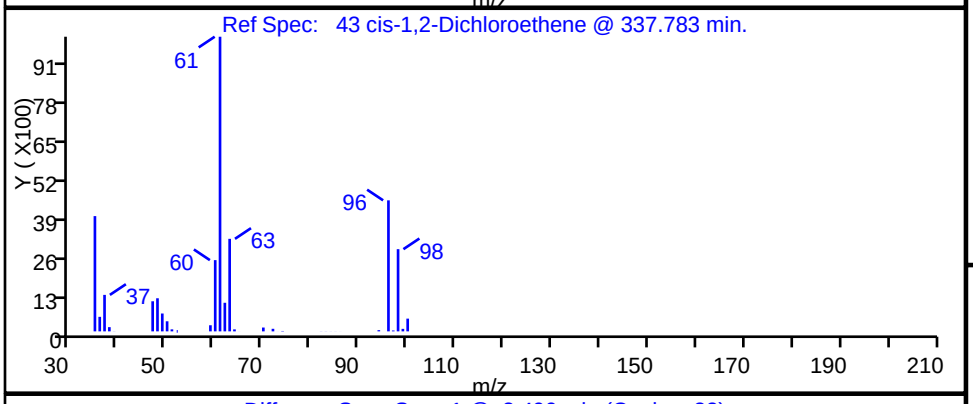
43 cis-1,2-Dichloroethene, CAS: 156-59-2

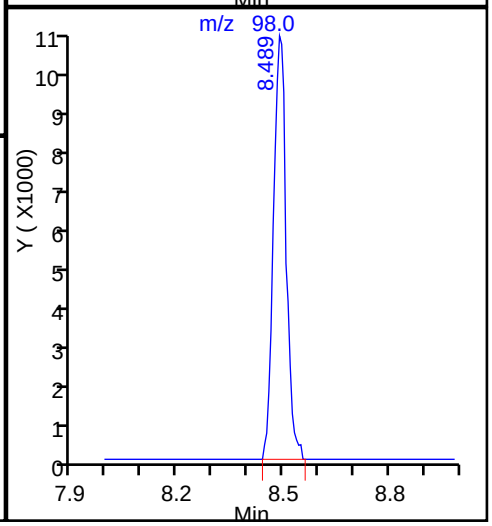


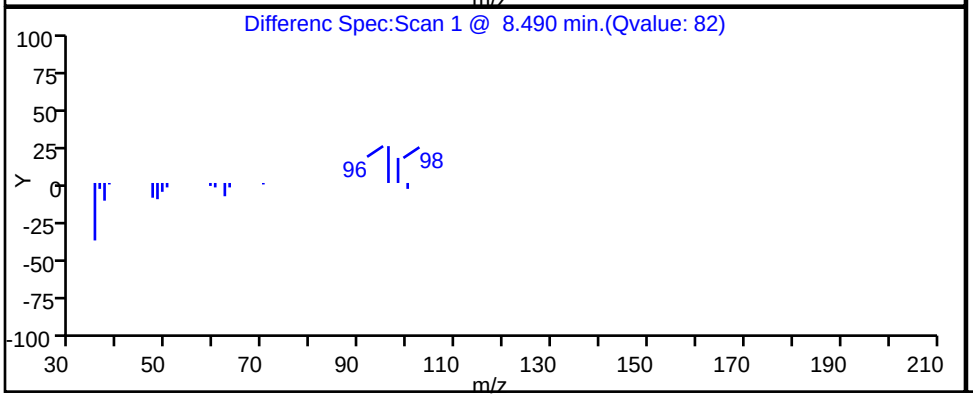








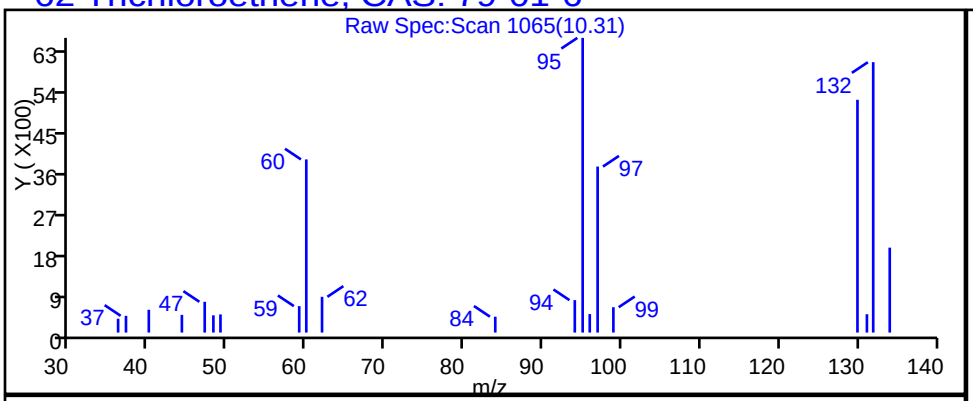


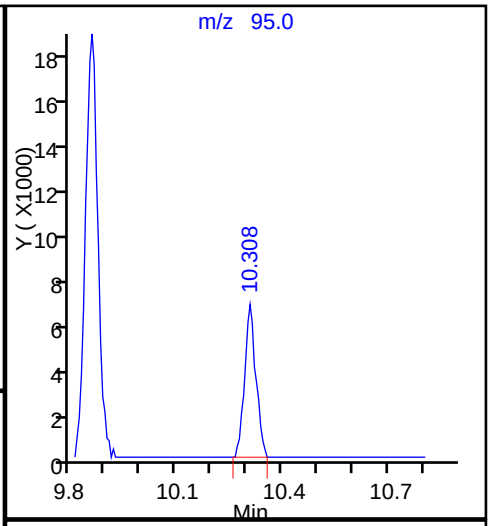


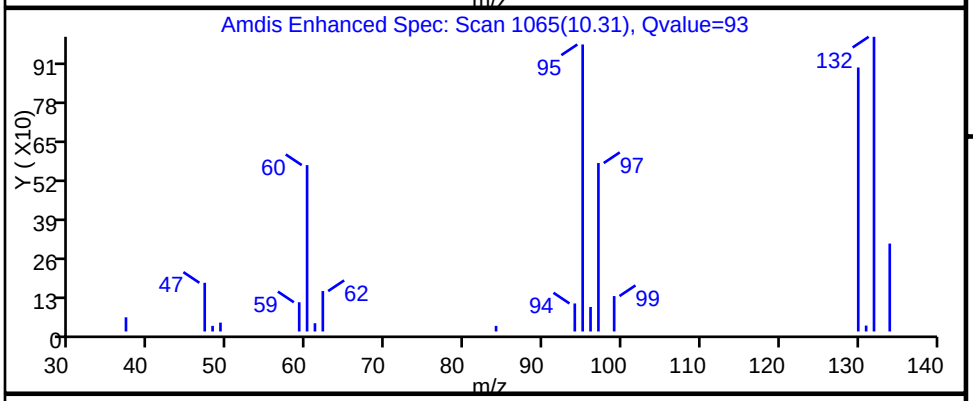
TestAmerica Buffalo

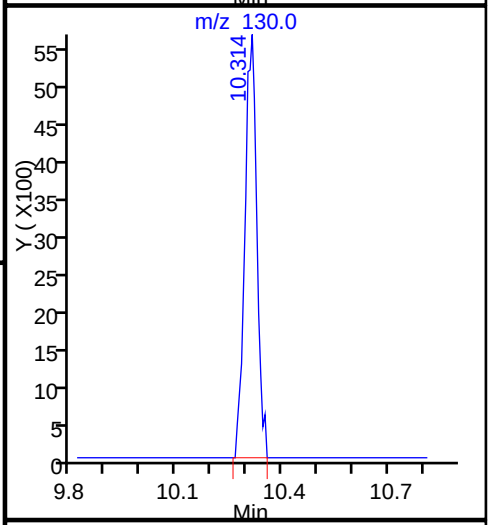
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7847.D				
Injection Date:	06-Jul-2016 16:48:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-22	Lab Sample ID:	480-102539-22		
Client ID:	4009-29D				
Operator ID:	CDC	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

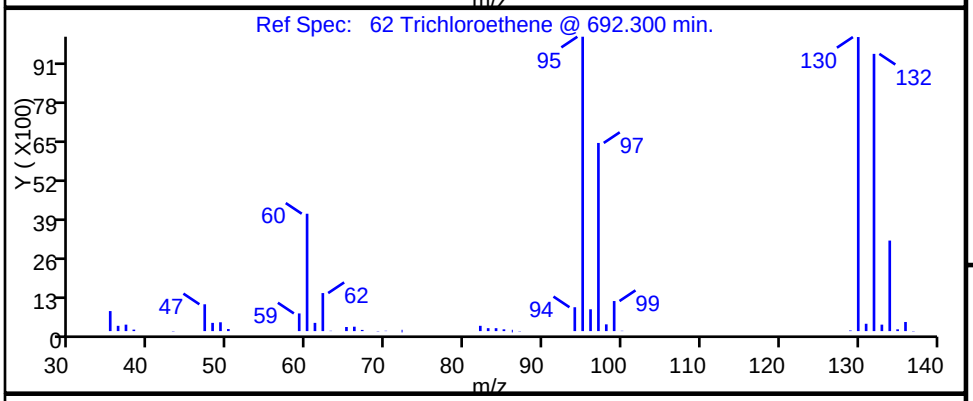
62 Trichloroethene, CAS: 79-01-6

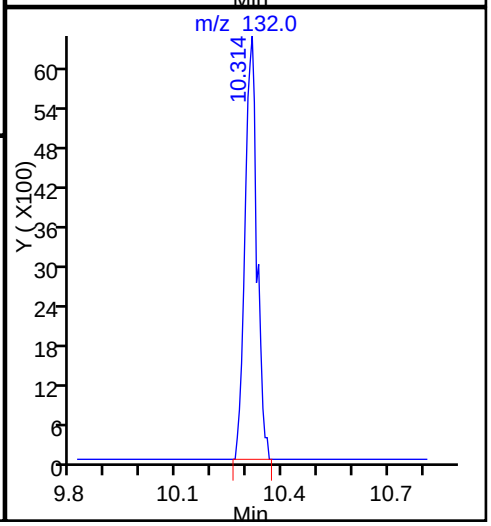


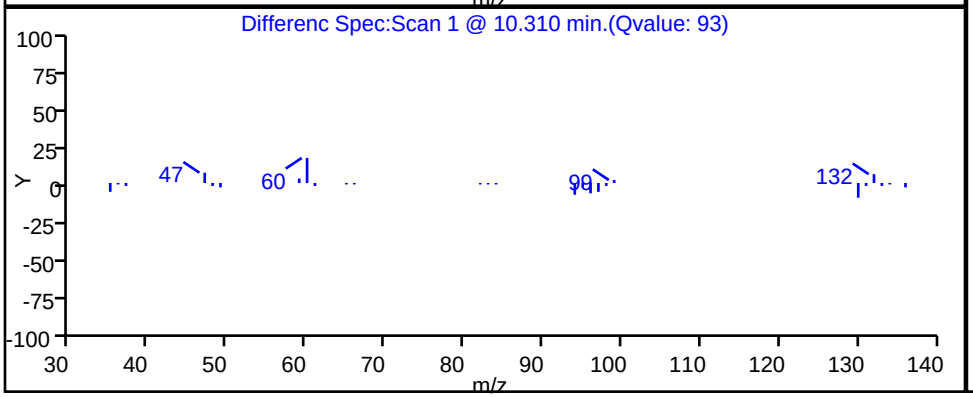








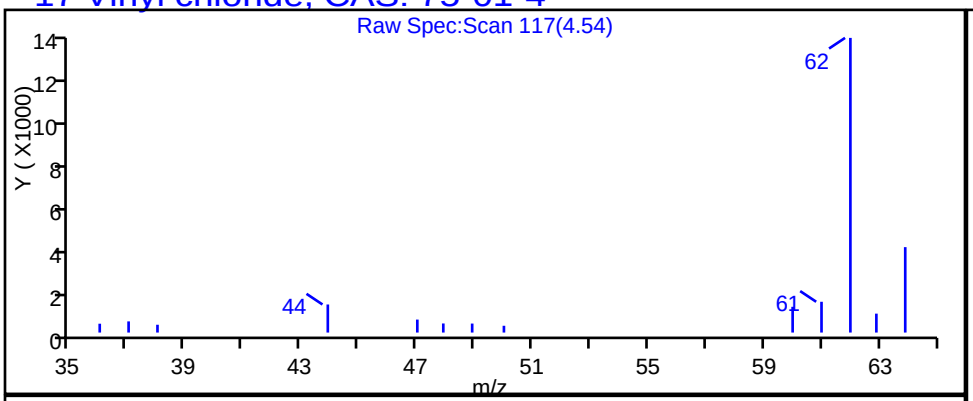


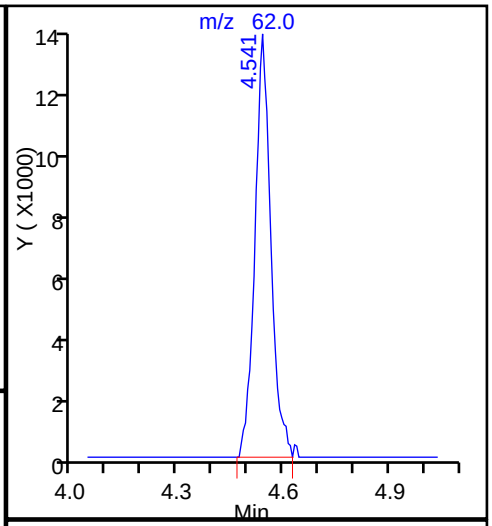


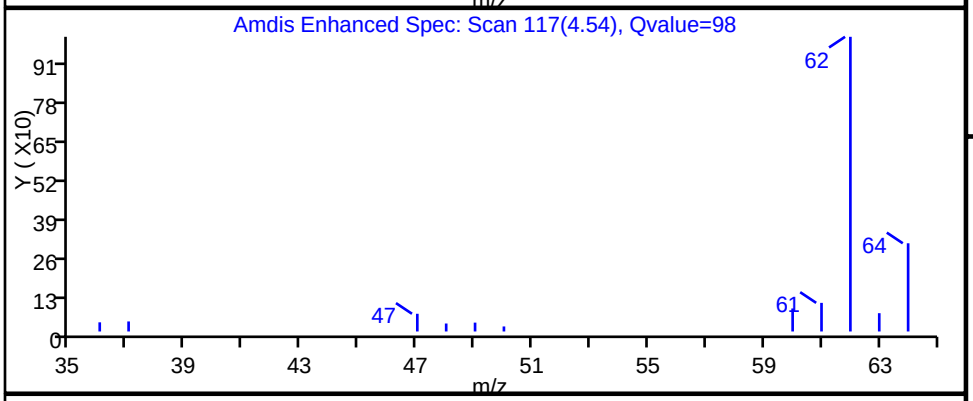
TestAmerica Buffalo

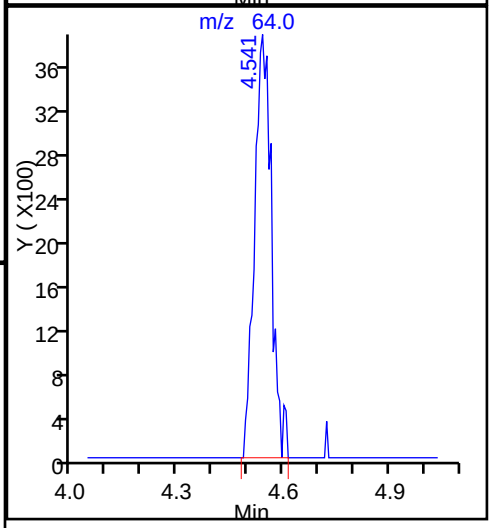
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7847.D				
Injection Date:	06-Jul-2016 16:48:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-22	Lab Sample ID:	480-102539-22		
Client ID:	4009-29D				
Operator ID:	CDC	ALS Bottle#:	8	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

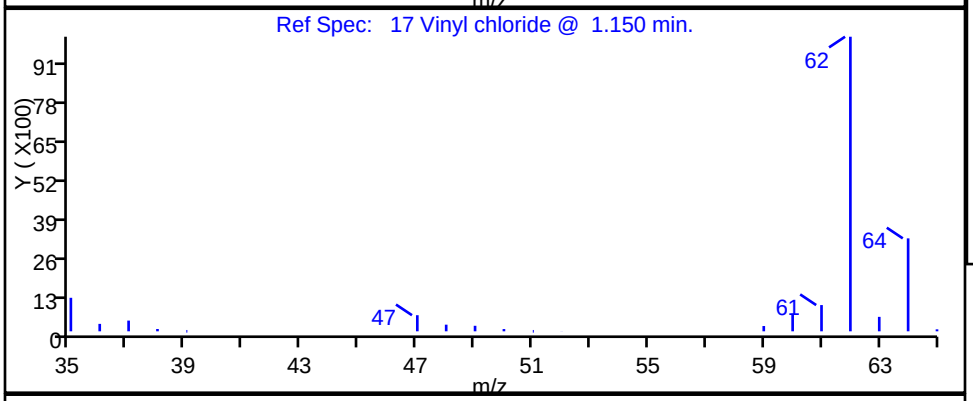
17 Vinyl chloride, CAS: 75-01-4

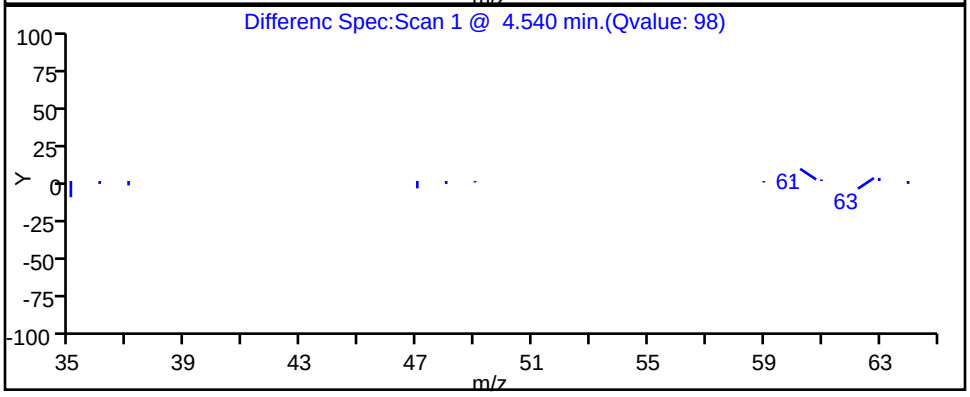












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-30 | Lab Sample ID: 480-102539-23

Matrix: Water | Lab File ID: P7848.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 17:16

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.: 309873 | 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	0.65	J	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	7.3	J	10	3.0
71-43-2	Benzene	0.44	J	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-30 | Lab Sample ID: 480-102539-23

Matrix: Water | Lab File ID: P7848.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 17:16

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	102		66-137
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7848.D
Lims ID: 480-102539-A-23
Client ID: 4009-30
Sample Type: Client
Inject. Date: 06-Jul-2016 17:16:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-23
Misc. Info.: 480-0054607-015
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:38:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.857	9.851	0.006	98	98466	25.0	
* 2 Chlorobenzene-d5	82	13.793	13.794	-0.001	87	196818	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.780	16.781	-0.001	95	240515	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.048	9.042	0.006	93	146157	25.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.480	9.480	0.000	0	89520	25.5	
$ 5 Toluene-d8 (Surr)	98	11.828	11.829	-0.001	94	446988	23.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.302	0.006	92	167921	23.5	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62		4.547				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.371	6.354	0.017	97	24567	7.27	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63	7.783	7.783	0.000	9	8614	0.6468	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.559	9.554	0.005	92	11767	0.4401	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95	10.301	10.302	-0.001	18	1440	0.1973	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

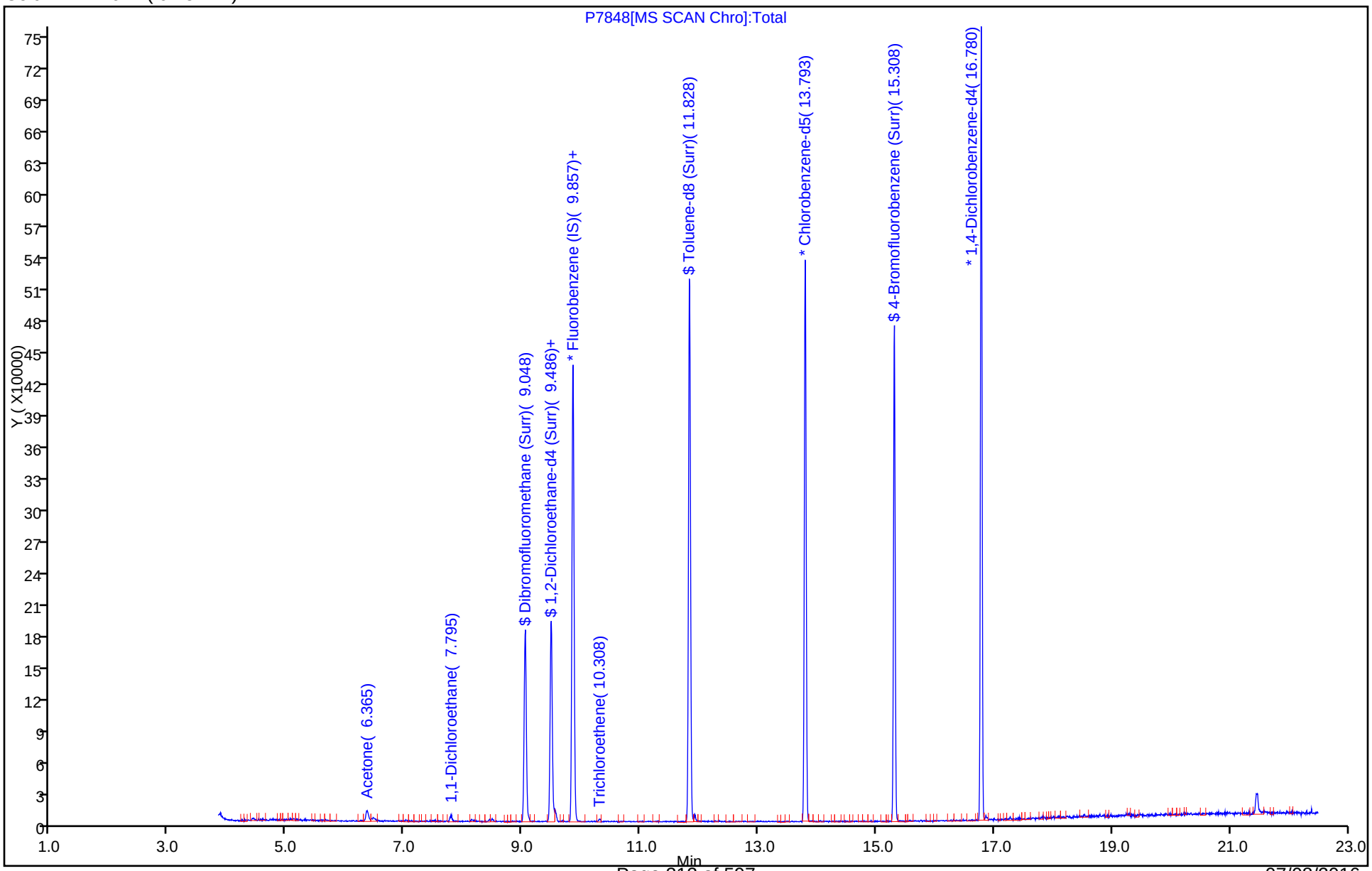
Report Date: 06-Jul-2016 21:38:59 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7848.D

Injection Date:	06-Jul-2016 17:16:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-23	Lab Sample ID:	480-102539-23	Worklist Smp#:	15
Client ID:	4009-30				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

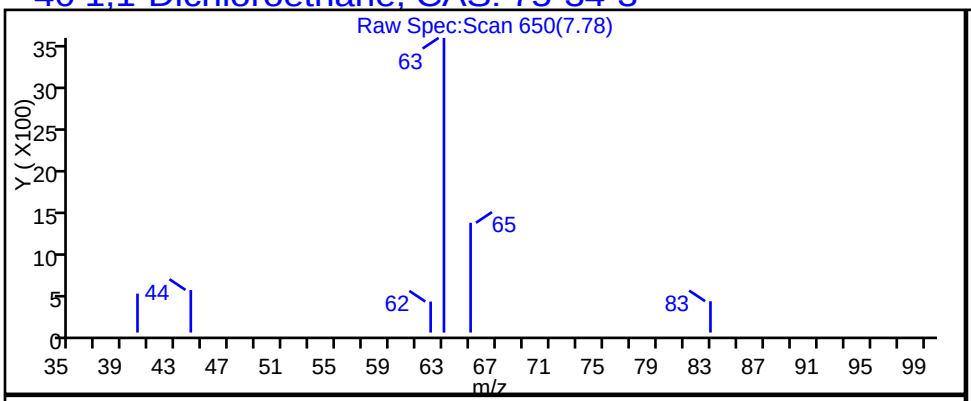


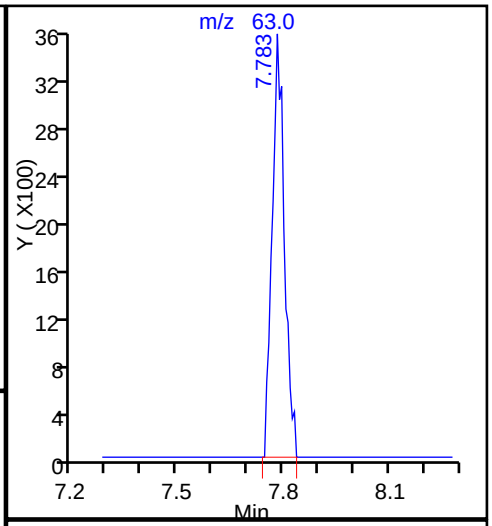
TestAmerica Buffalo

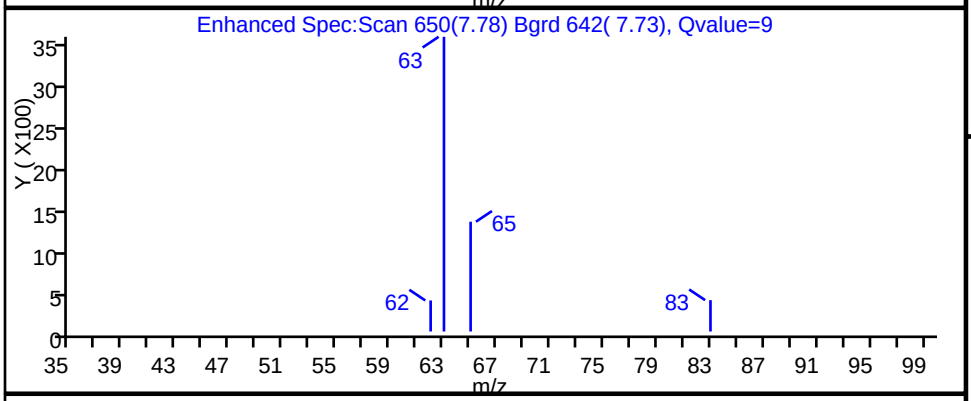
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7848.D

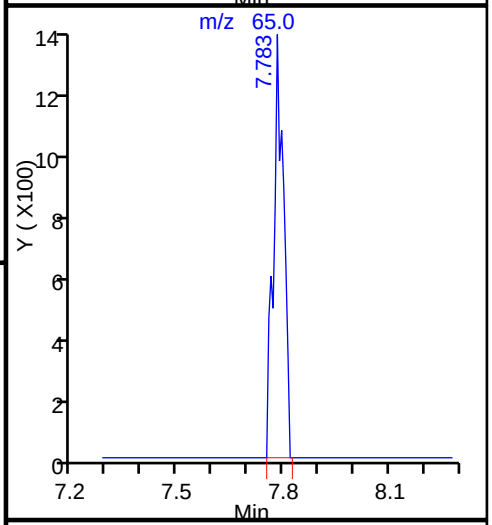
Injection Date:	06-Jul-2016 17:16:30	Instrument ID:	HP5973P
Lims ID:	480-102539-A-23	Lab Sample ID:	480-102539-23
Client ID:	4009-30		
Operator ID:	CDC	ALS Bottle#:	9 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

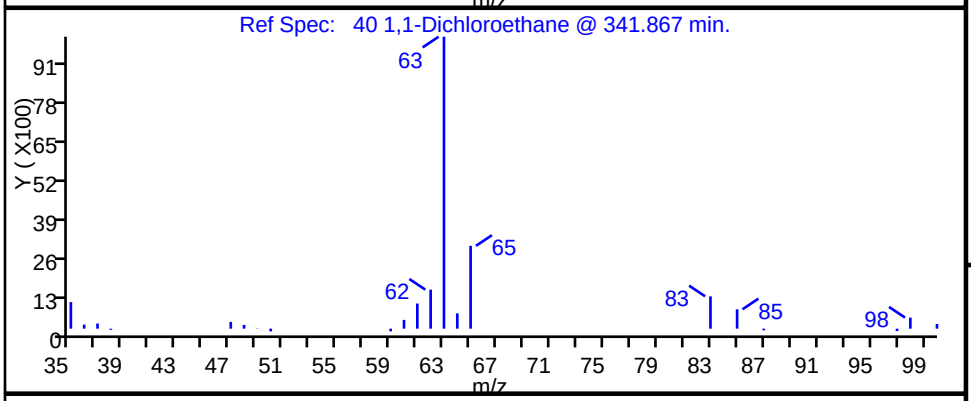
40 1,1-Dichloroethane, CAS: 75-34-3

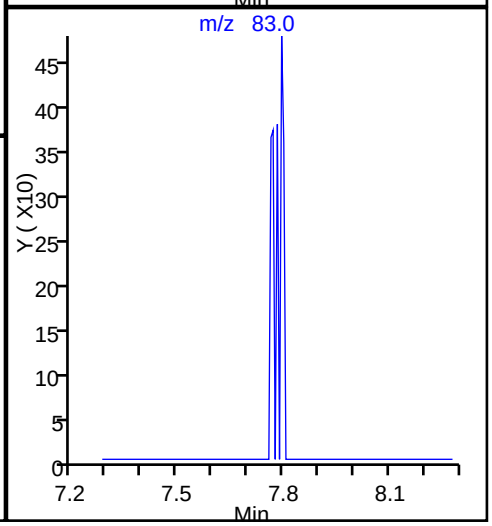


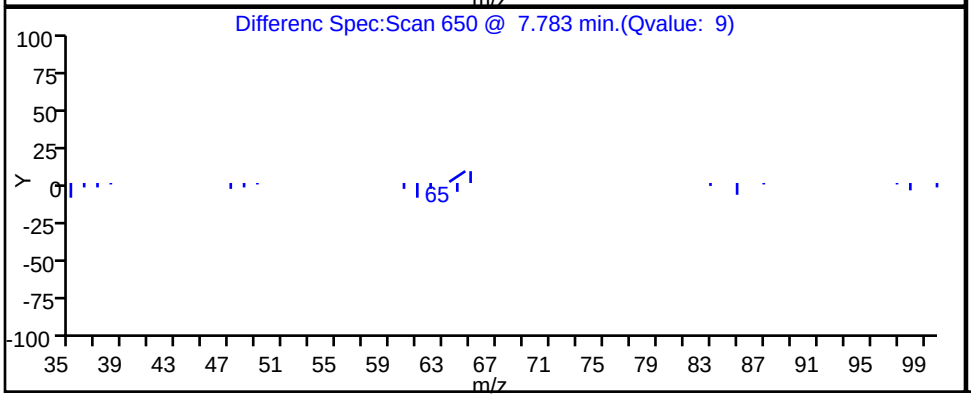










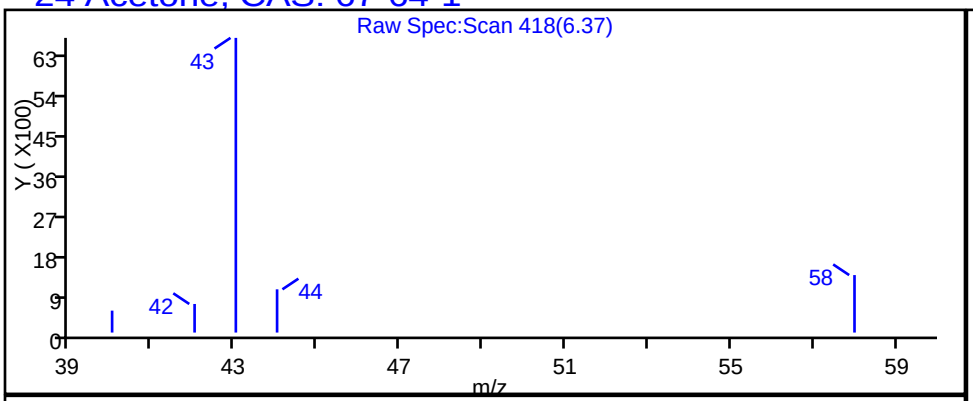


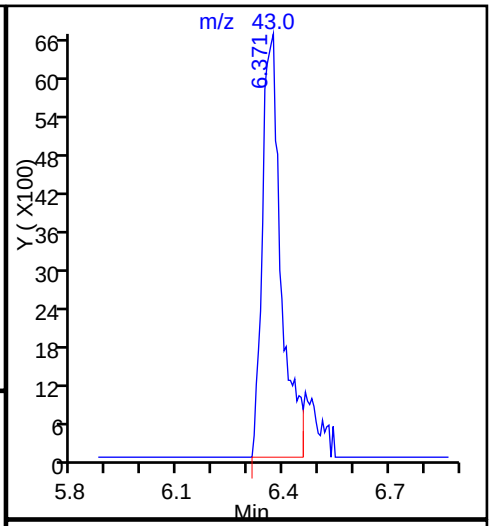
TestAmerica Buffalo

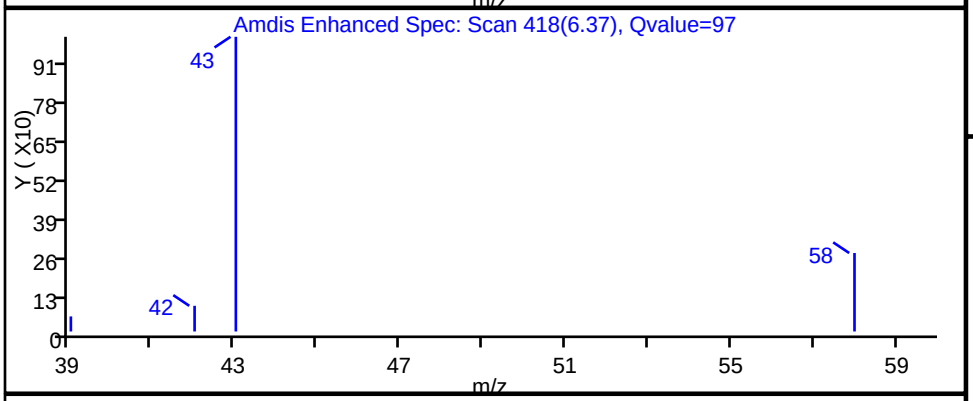
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7848.D

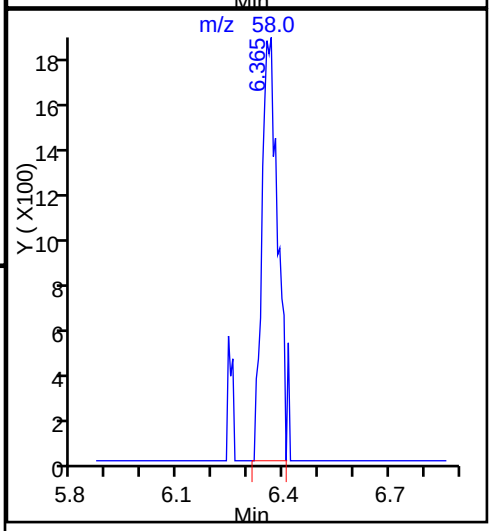
Injection Date:	06-Jul-2016 17:16:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-23	Lab Sample ID:	480-102539-23		
Client ID:	4009-30				
Operator ID:	CDC	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

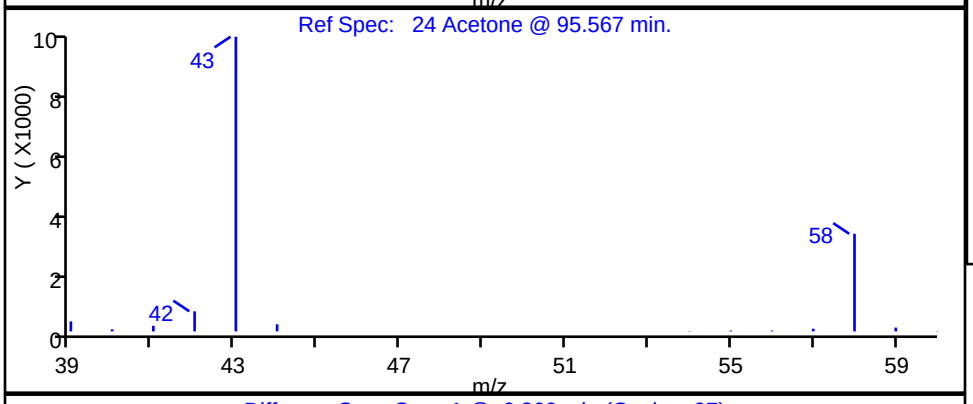
24 Acetone, CAS: 67-64-1

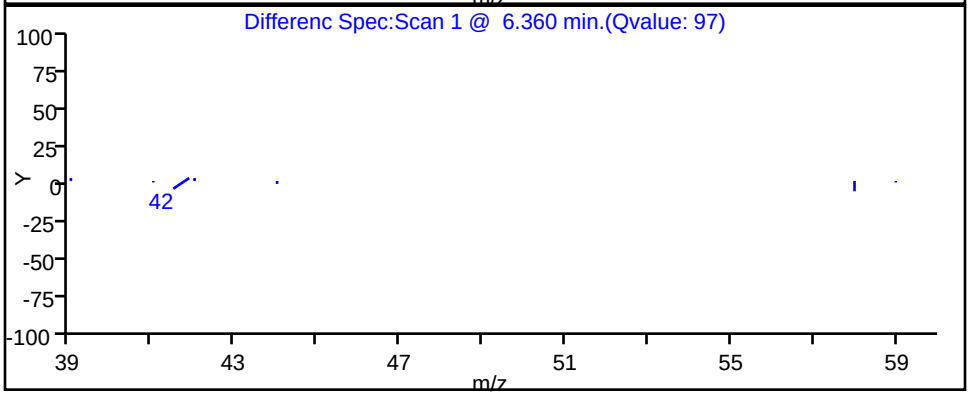










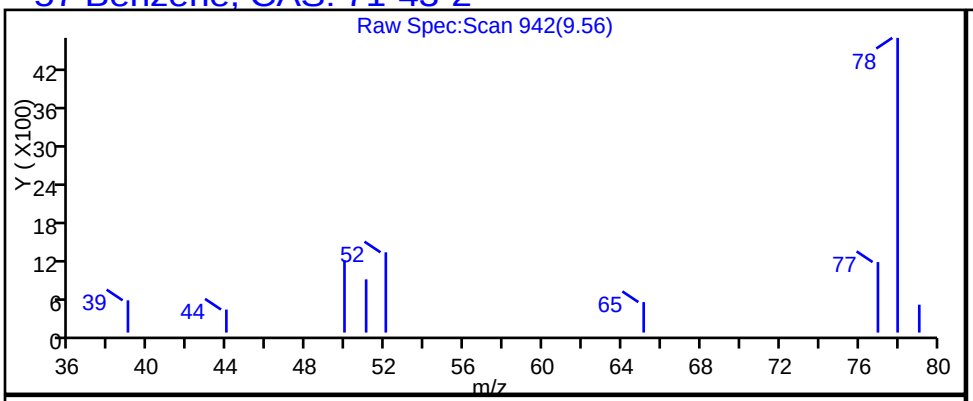


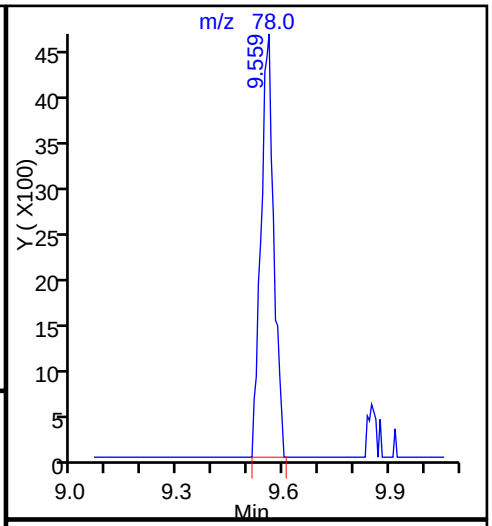
TestAmerica Buffalo

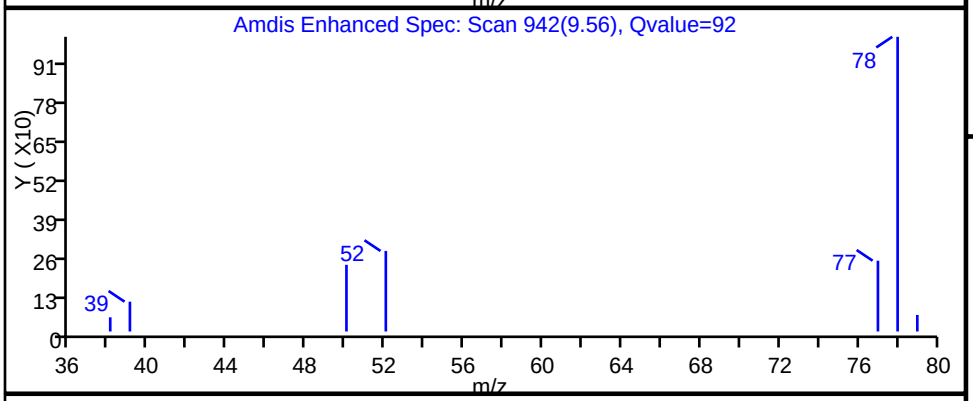
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7848.D

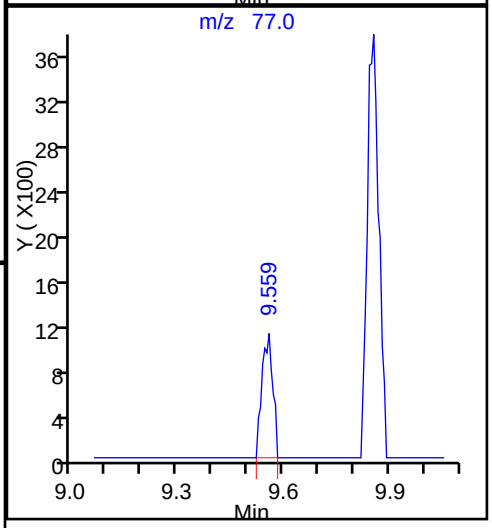
Injection Date:	06-Jul-2016 17:16:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-23	Lab Sample ID:	480-102539-23		
Client ID:	4009-30				
Operator ID:	CDC	ALS Bottle#:	9	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

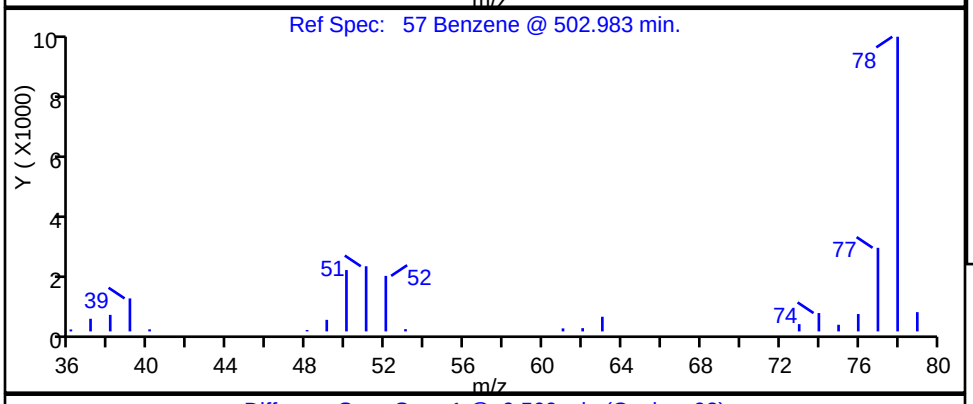
57 Benzene, CAS: 71-43-2

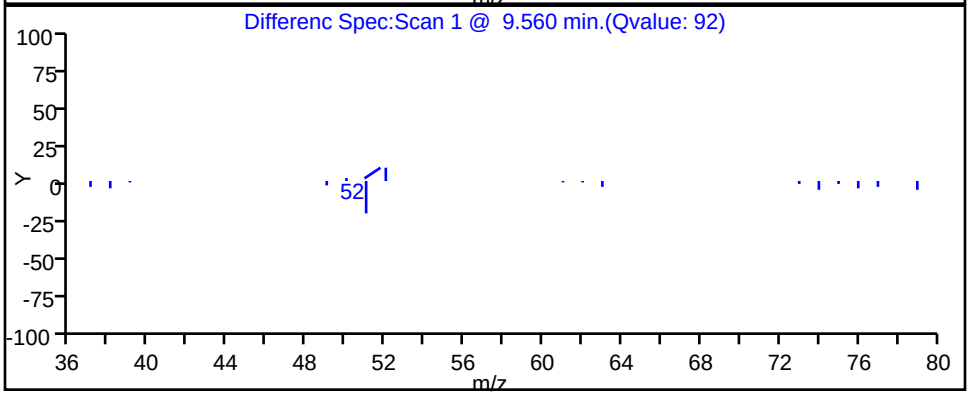












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-30A | Lab Sample ID: 480-102539-24

Matrix: Water | Lab File ID: P7849.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 17:43

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.: 309873 | 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	0.43	J	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-30A | Lab Sample ID: 480-102539-24

Matrix: Water | Lab File ID: P7849.D

Analysis Method: 8260C | Date Collected: 06/30/2016 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 17:43

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7849.D
Lims ID: 480-102539-A-24
Client ID: 4009-30A
Sample Type: Client
Inject. Date: 06-Jul-2016 17:43:30 ALS Bottle#: 10 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-24
Misc. Info.: 480-0054607-016
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:39:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.851	0.007	98	96419	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	201243	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	238902	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.042	0.001	93	145702	26.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.480	0.007	0	89364	26.0	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	451740	23.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.007	92	166312	22.7	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62		4.547				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.372	6.354	0.018	97	8895	2.69	7
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78	9.548	9.554	-0.006	91	11363	0.4340	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

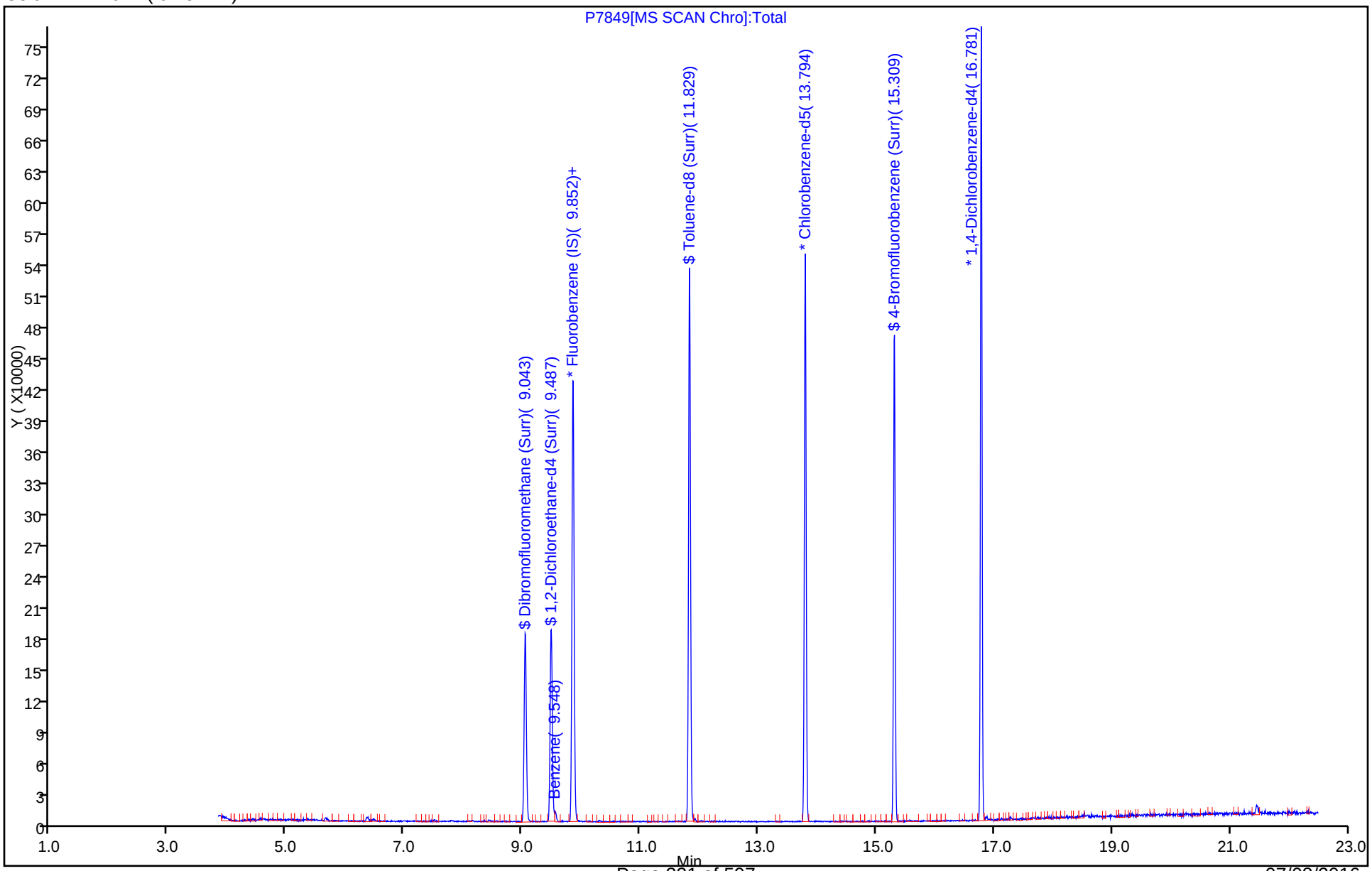
Report Date: 06-Jul-2016 21:39:03 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7849.D

Injection Date:	06-Jul-2016 17:43:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-24	Lab Sample ID:	480-102539-24	Worklist Smp#:	16
Client ID:	4009-30A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

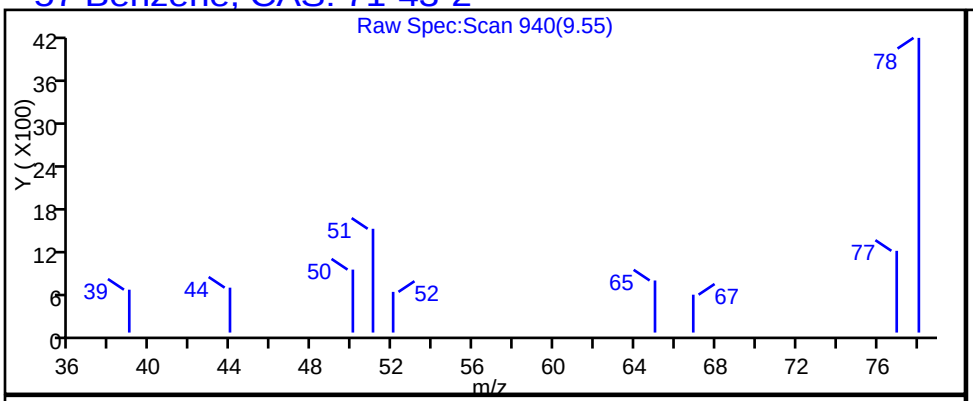
Column: ZB-624 (0.25 mm)

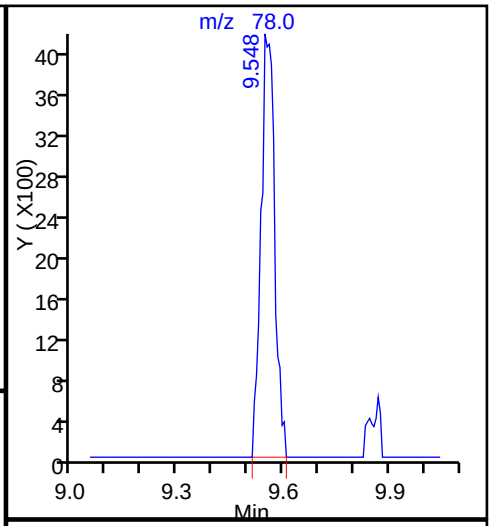


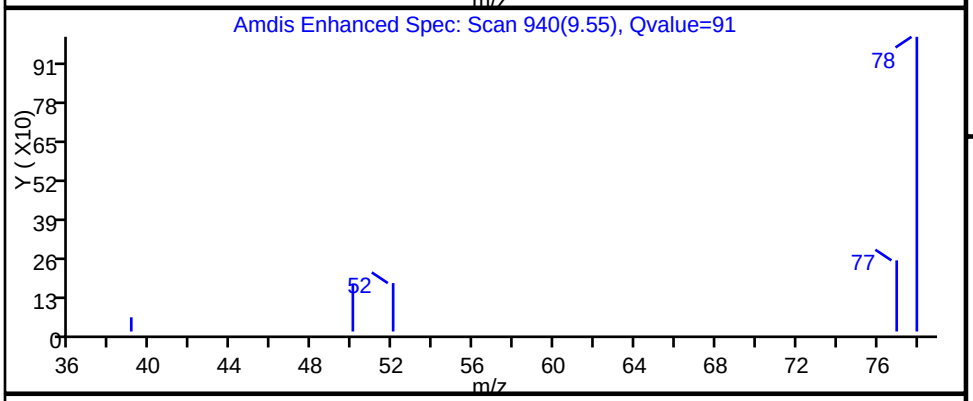
TestAmerica Buffalo

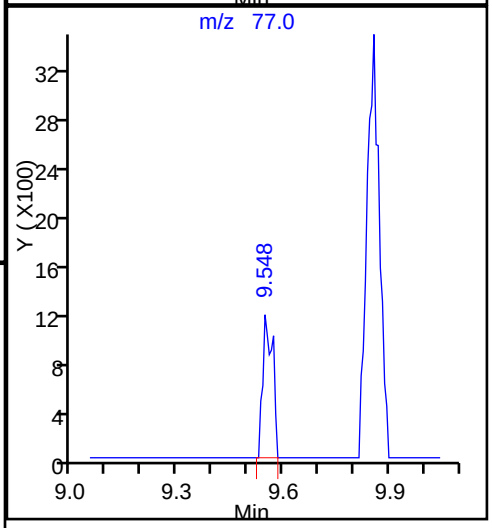
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7849.D				
Injection Date:	06-Jul-2016 17:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-24	Lab Sample ID:	480-102539-24		
Client ID:	4009-30A				
Operator ID:	CDC	ALS Bottle#:	10	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

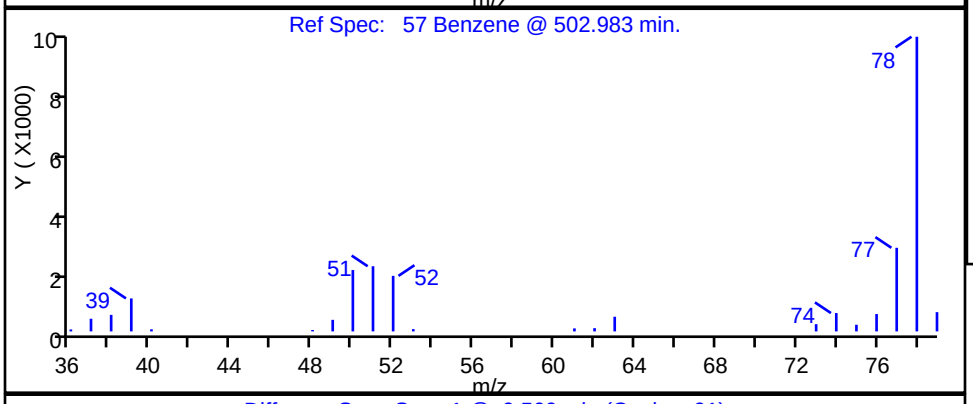
57 Benzene, CAS: 71-43-2

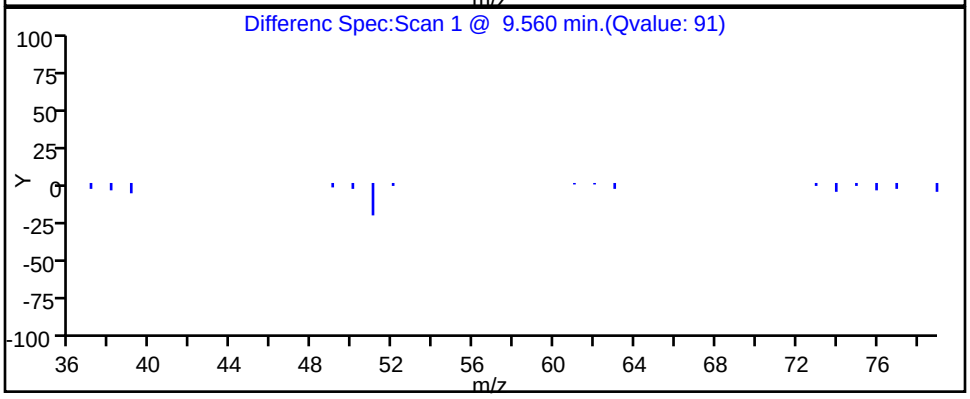












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-11A | Lab Sample ID: 480-102539-25

Matrix: Water | Lab File ID: P7850.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 19:48

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.: 309873 | 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	3.5	J	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-11A | Lab Sample ID: 480-102539-25

Matrix: Water | Lab File ID: P7850.D

Analysis Method: 8260C | Date Collected: 06/30/2016 13:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 19:48

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	102		66-137
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7850.D
Lims ID: 480-102539-A-25
Client ID: 4009-11A
Sample Type: Client
Inject. Date: 06-Jul-2016 19:48:30 ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-25
Misc. Info.: 480-0054607-017
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:39:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.852	9.851	0.001	98	108996	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	216999	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	262858	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.042	0.001	92	162168	26.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.480	0.001	0	98982	25.5	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	496027	23.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.007	92	181122	22.9	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62		4.547				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.360	6.354	0.006	99	13144	3.52	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63		7.783				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.554				ND	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

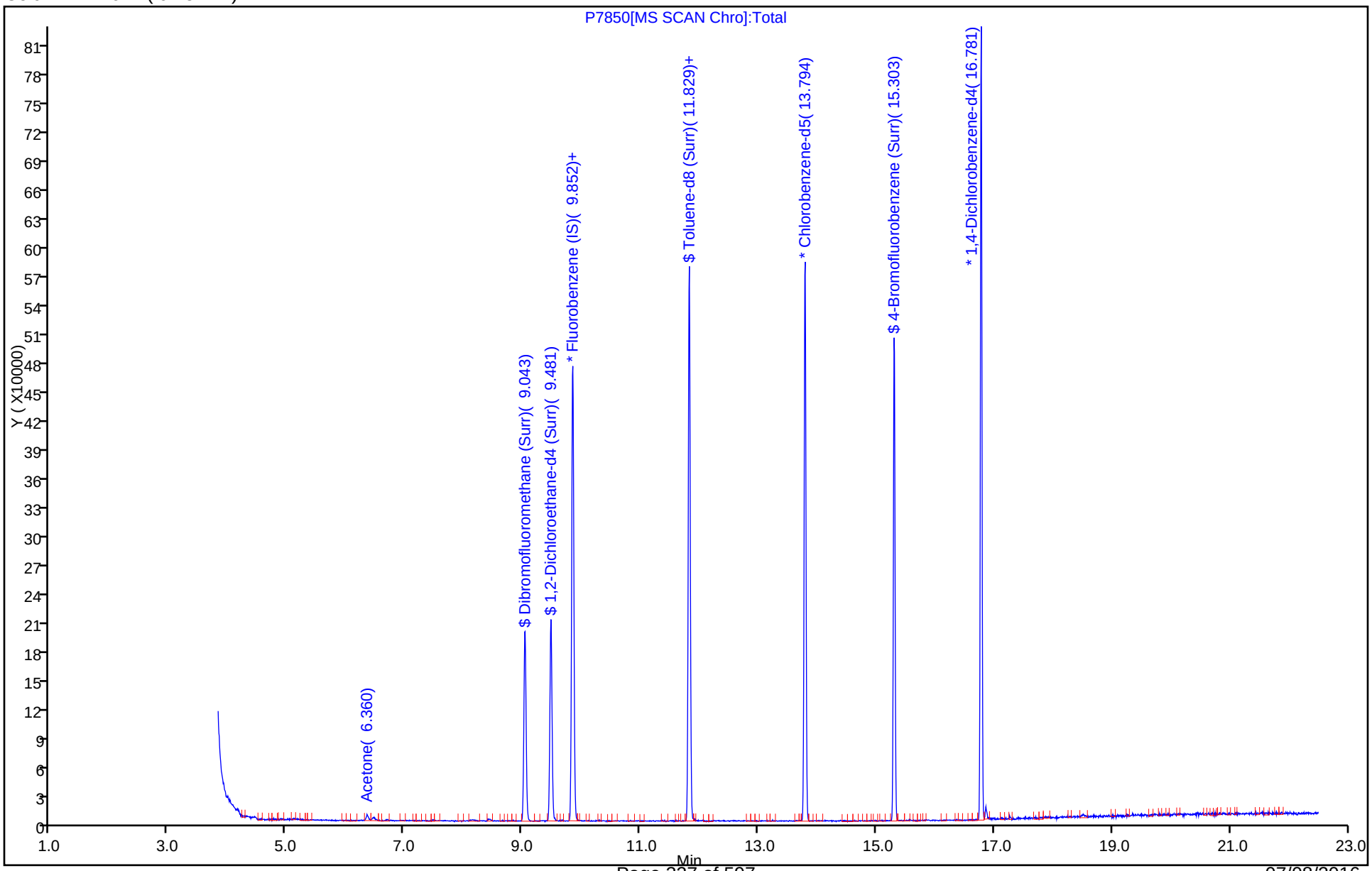
Report Date: 06-Jul-2016 21:39:07 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7850.D

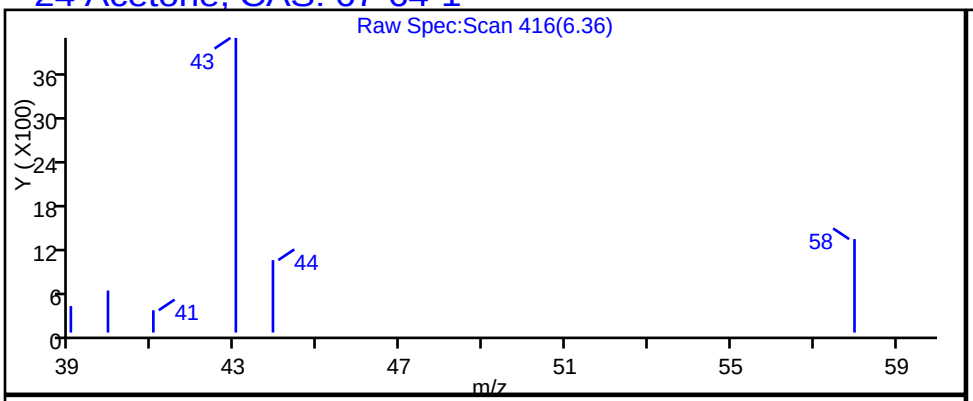
Injection Date:	06-Jul-2016 19:48:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-25	Lab Sample ID:	480-102539-25	Worklist Smp#:	17
Client ID:	4009-11A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

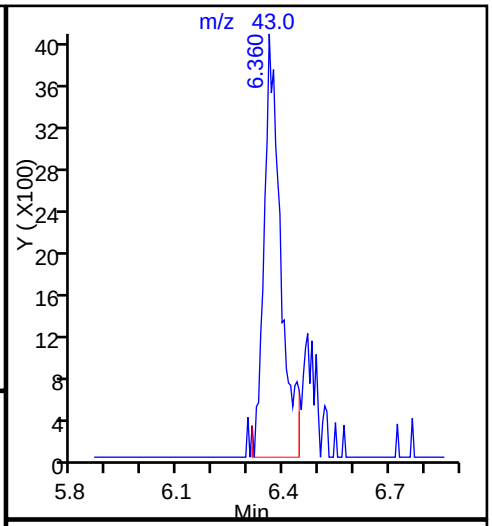
Column: ZB-624 (0.25 mm)

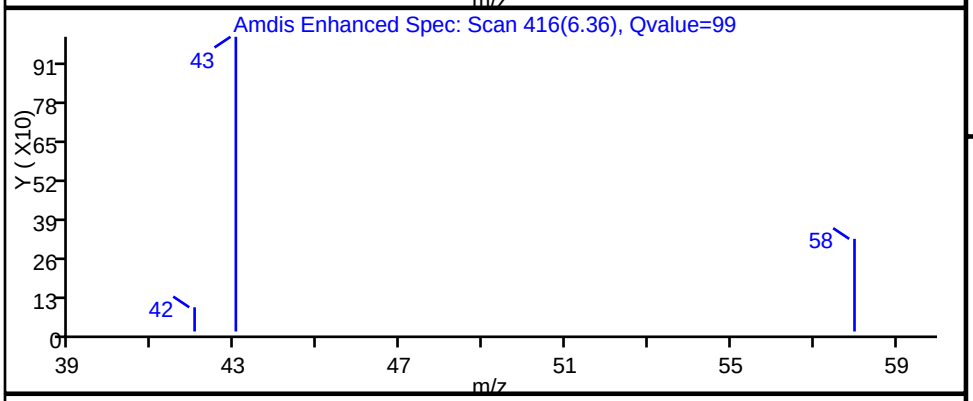


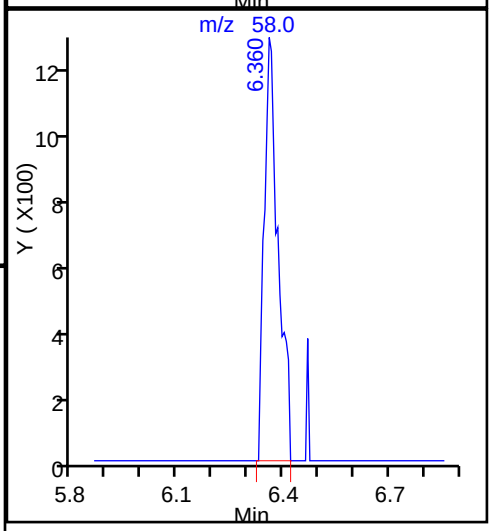
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7850.D
Injection Date: 06-Jul-2016 19:48:30 Instrument ID: HP5973P
Lims ID: 480-102539-A-25 Lab Sample ID: 480-102539-25
Client ID: 4009-11A
Operator ID: CDC ALS Bottle#: 11 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

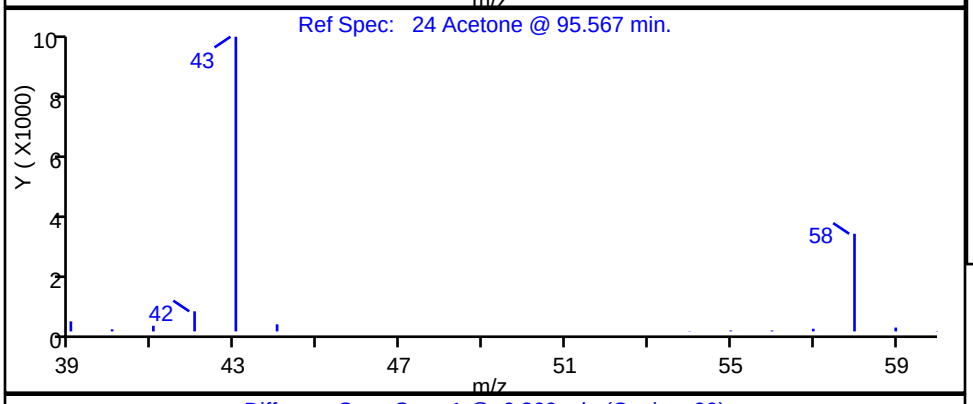
24 Acetone, CAS: 67-64-1

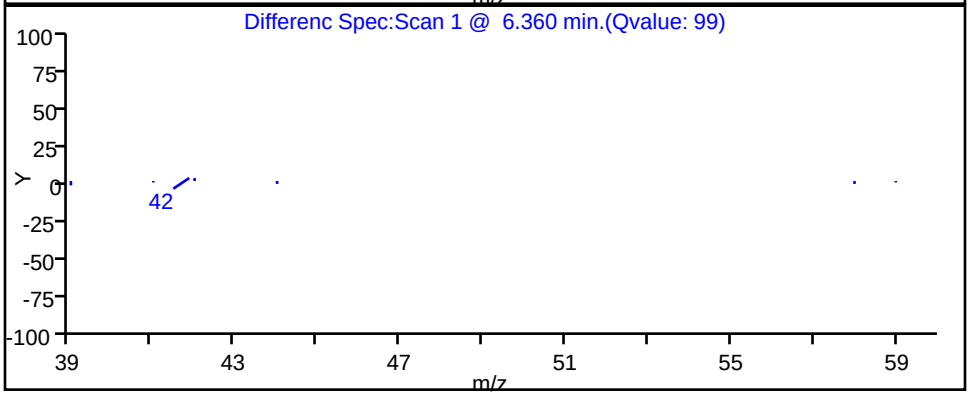












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Client Sample ID: DUP-1_20160630 Lab Sample ID: 480-102539-26

Matrix: Water Lab File ID: P7863.D

Analysis Method: 8260C Date Collected: 06/30/2016 00:00

Sample wt/vol: 5(mL) Date Analyzed: 07/07/2016 01:11

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.: 309962 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	2.8		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	3.1	J *	10	3.0
71-43-2	Benzene	8.0		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	0.25	J	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	1.2		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.: 480-102539-1

SDG No.:

Client Sample ID: DUP-1_20160630 | Lab Sample ID: 480-102539-26

Matrix: Water | Lab File ID: P7863.D

Analysis Method: 8260C | Date Collected: 06/30/2016 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2016 01:11

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.: 309962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U *	2.5	1.3
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
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	0.81	J	1.0	0.46
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.88
75-01-4	Vinyl chloride	1.3		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)	106		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		60-140
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7863.D
Lims ID: 480-102539-B-26
Client ID: DUP-1_20160630
Sample Type: Client
Inject. Date: 07-Jul-2016 01:11:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-B-26
Misc. Info.: 480-0054624-007
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 04:04:07 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 09:20:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.852	9.852	0.000	98	103142	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	203833	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	251877	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.037	9.049	-0.012	93	155095	26.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.475	9.493	-0.018	0	97048	26.4	
$ 5 Toluene-d8 (Surr)	98	11.823	11.835	-0.012	94	486276	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	95	182292	24.6	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.310				ND	
17 Vinyl chloride	62	4.516	4.541	-0.025	42	7464	1.27	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.222				ND	
14 Trichlorofluoromethane	101		5.630				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.366	6.354	0.012	96	11022	3.12	
27 Carbon disulfide	76	6.694	6.694	0.000	97	5452	0.2462	
30 Methyl acetate	43		6.725				ND	
31 Methylene Chloride	84		6.932				ND	
32 Methyl tert-butyl ether	73		7.187				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63	7.783	7.777	0.006	96	39605	2.84	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	82	9516	1.17	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.304				ND	
57 Benzene	78	9.548	9.548	0.000	98	223259	7.97	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95	10.308	10.302	0.006	88	6224	0.8142	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.618				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.271				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00152	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

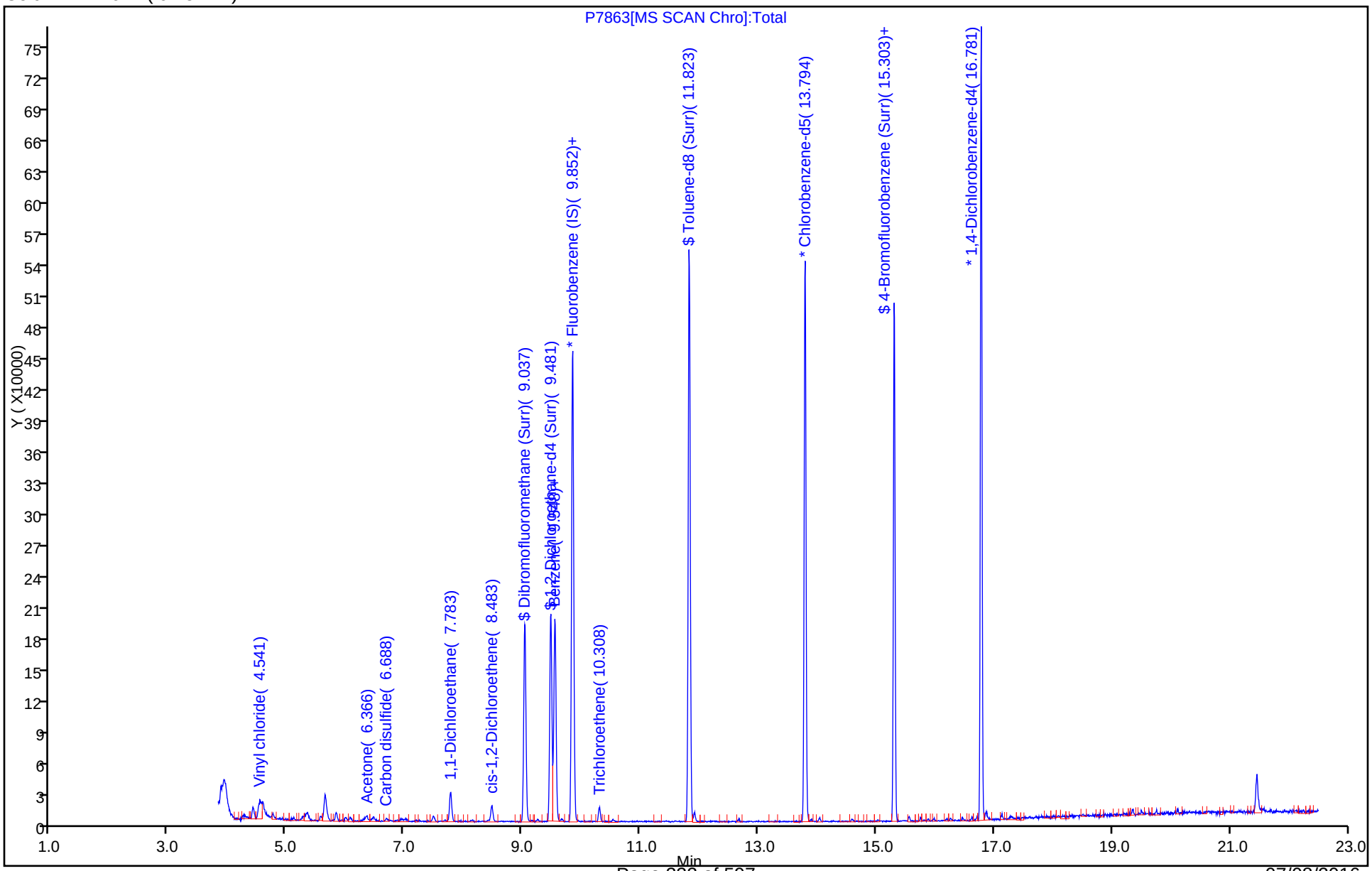
Report Date: 07-Jul-2016 09:20:53 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7863.D

Injection Date:	07-Jul-2016 01:11:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-B-26	Lab Sample ID:	480-102539-26	Worklist Smp#:	7
Client ID:	DUP-1_20160630				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

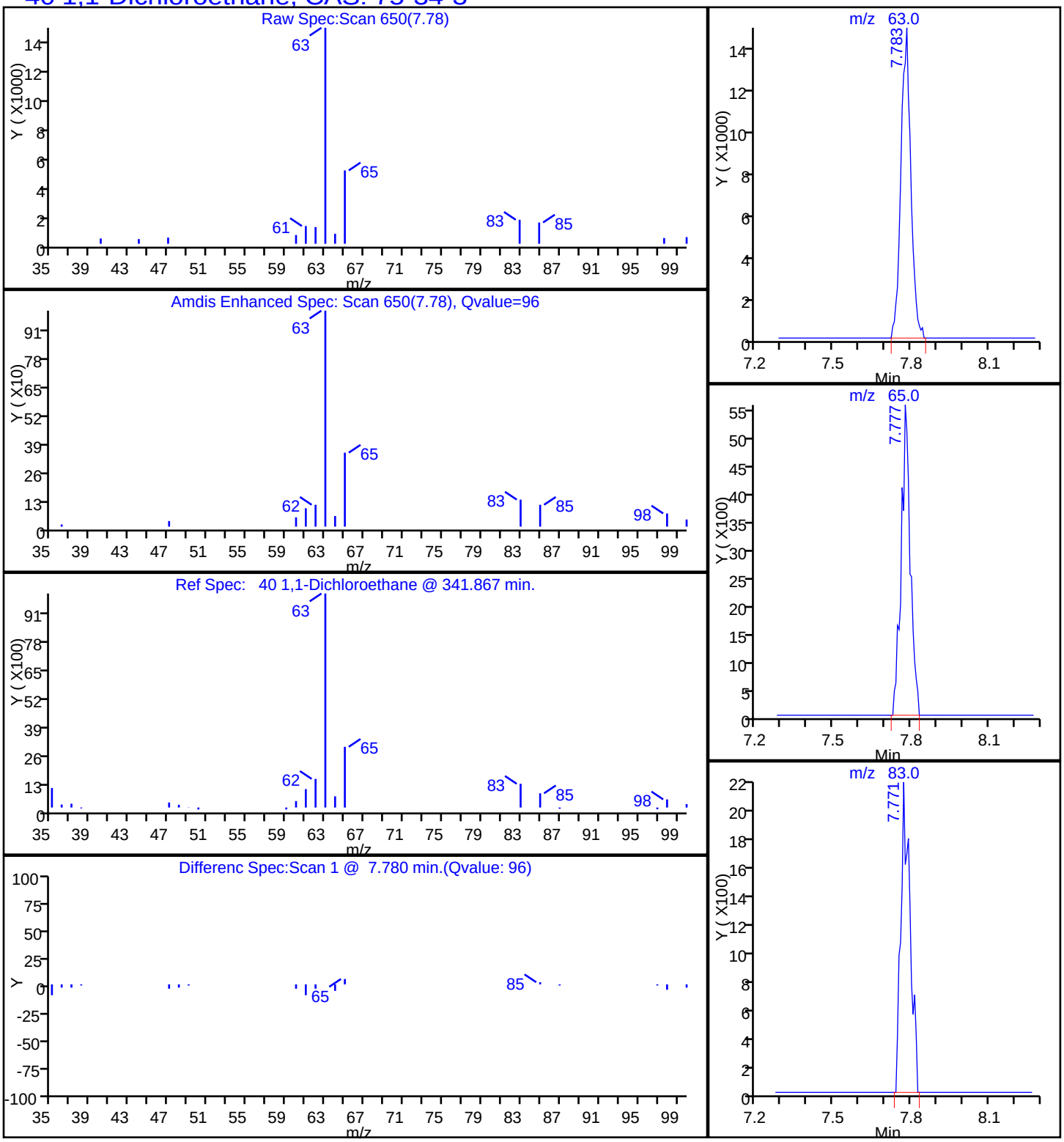
Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7863.D				
Injection Date:	07-Jul-2016 01:11:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-B-26	Lab Sample ID:	480-102539-26		
Client ID:	DUP-1_20160630				
Operator ID:	SY	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

40 1,1-Dichloroethane, CAS: 75-34-3

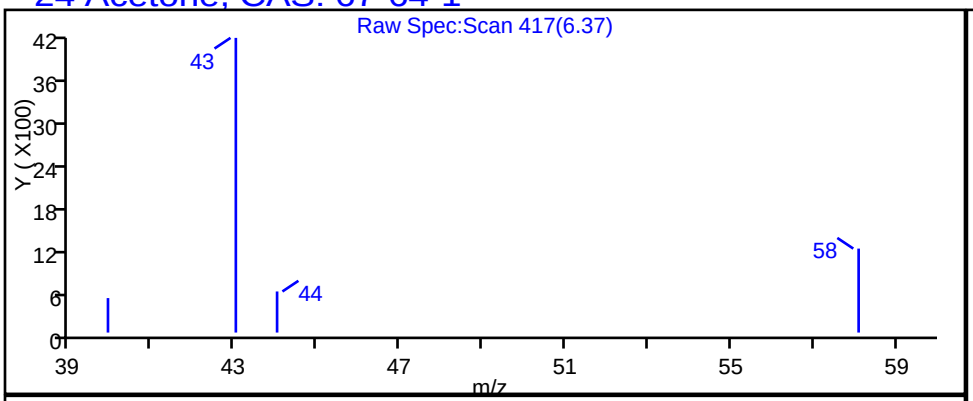


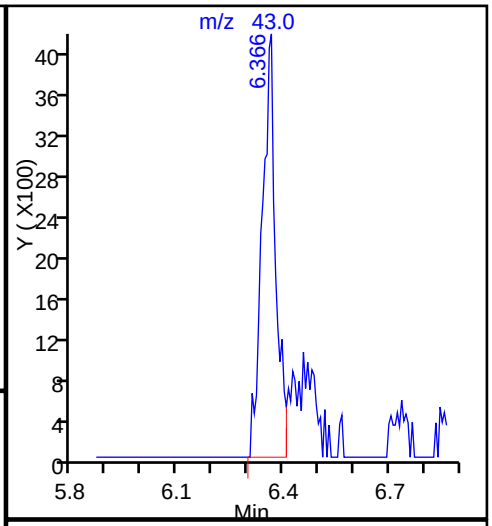
TestAmerica Buffalo

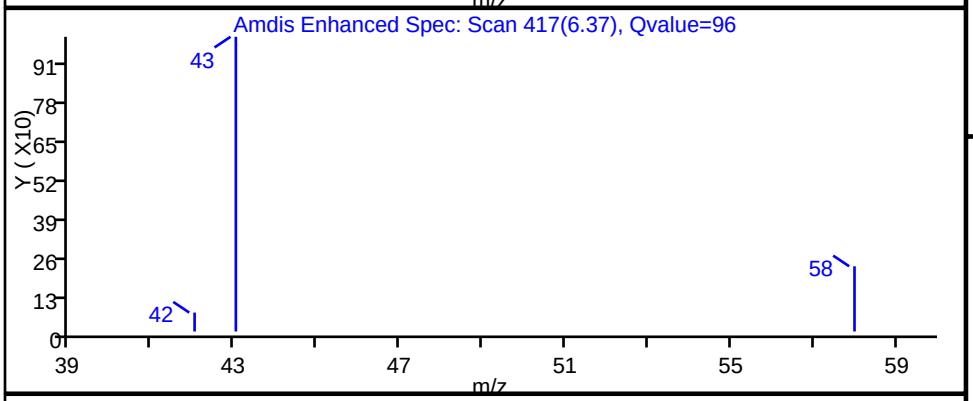
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7863.D

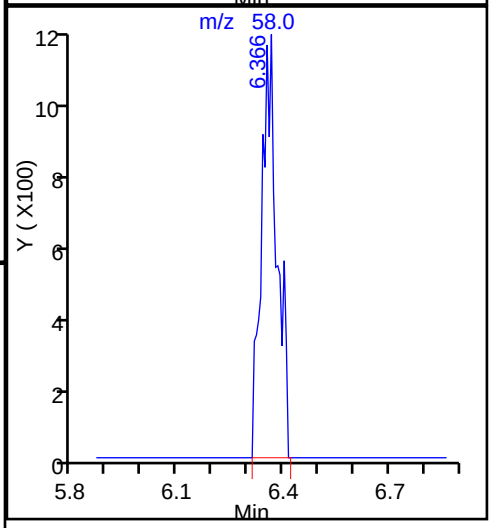
Injection Date:	07-Jul-2016 01:11:30	Instrument ID:	HP5973P
Lims ID:	480-102539-B-26	Lab Sample ID:	480-102539-26
Client ID:	DUP-1_20160630		
Operator ID:	SY	ALS Bottle#:	7 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

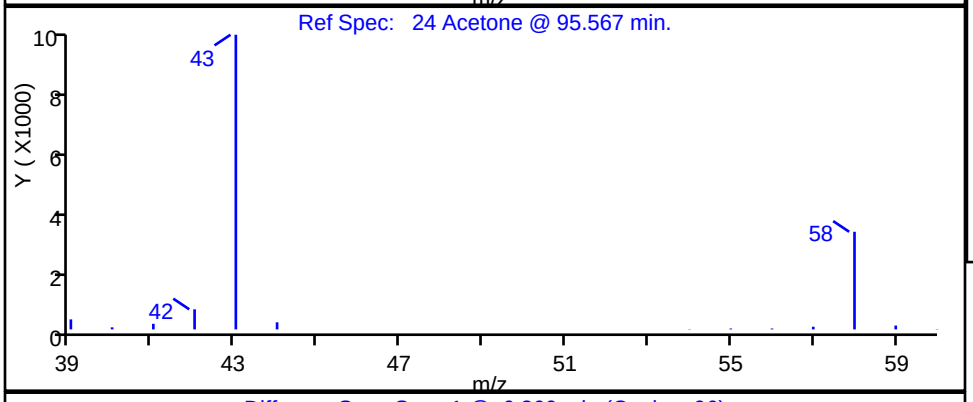
24 Acetone, CAS: 67-64-1

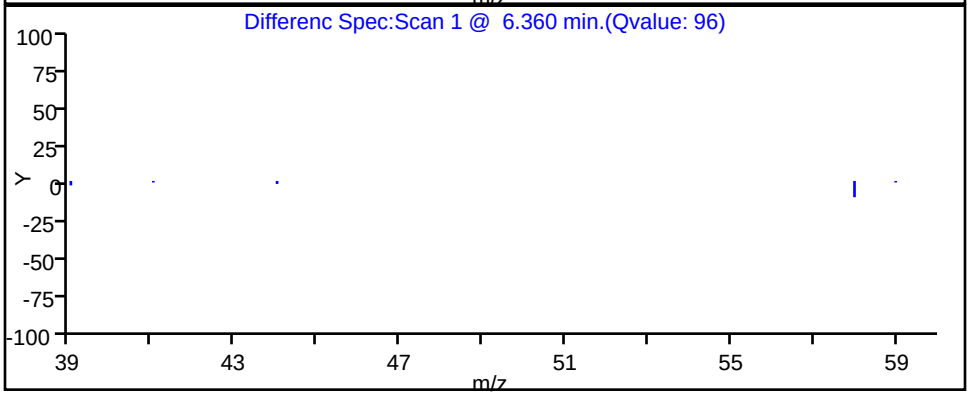








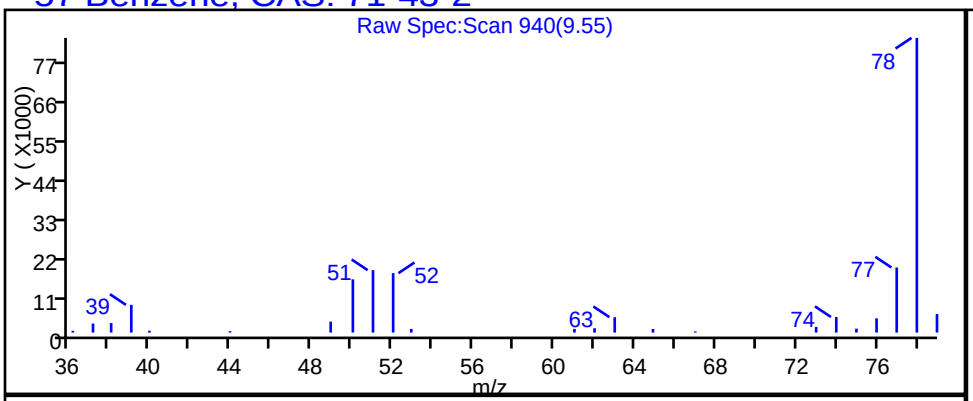


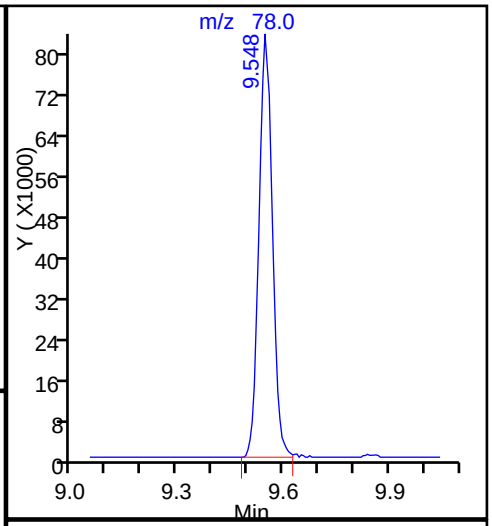


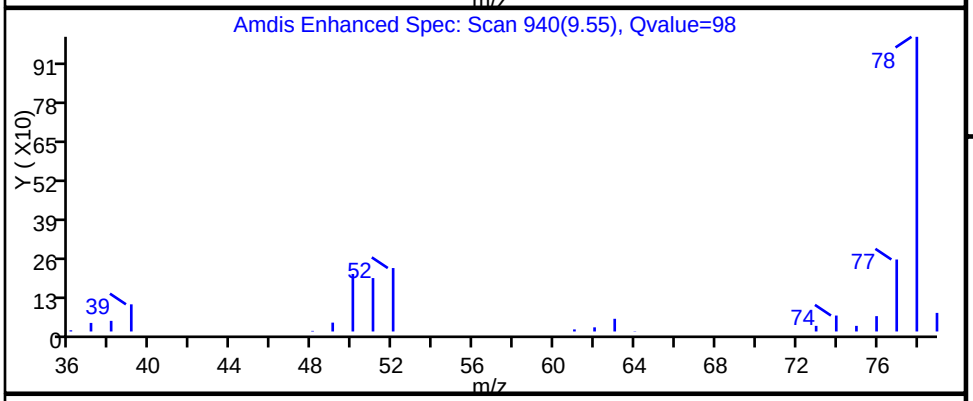
TestAmerica Buffalo

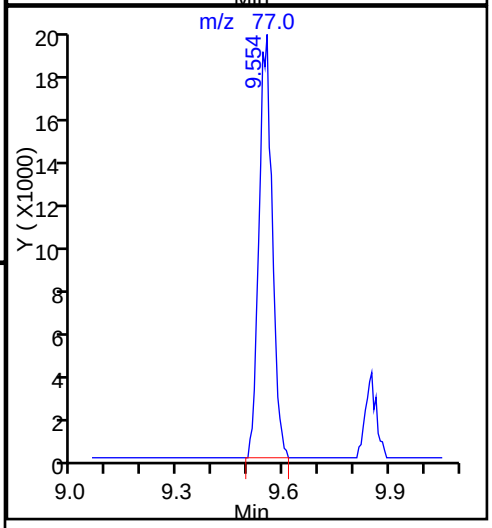
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7863.D		
Injection Date:	07-Jul-2016 01:11:30	Instrument ID:	HP5973P
Lims ID:	480-102539-B-26	Lab Sample ID:	480-102539-26
Client ID:	DUP-1_20160630		
Operator ID:	SY	ALS Bottle#:	7 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

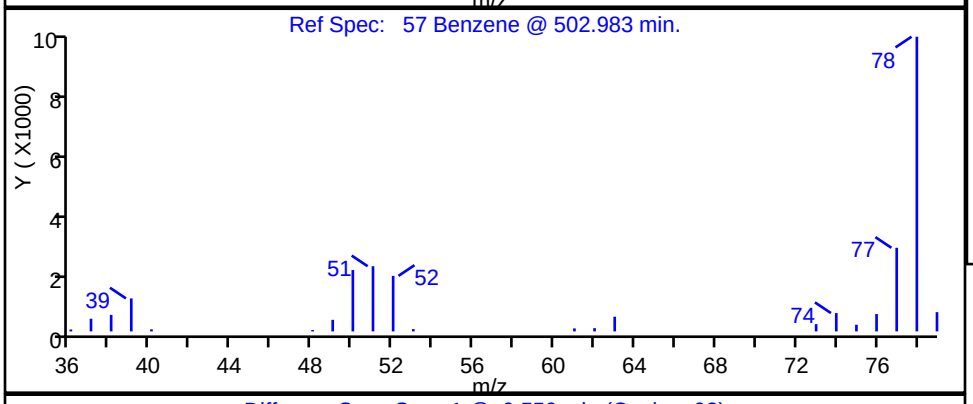
57 Benzene, CAS: 71-43-2

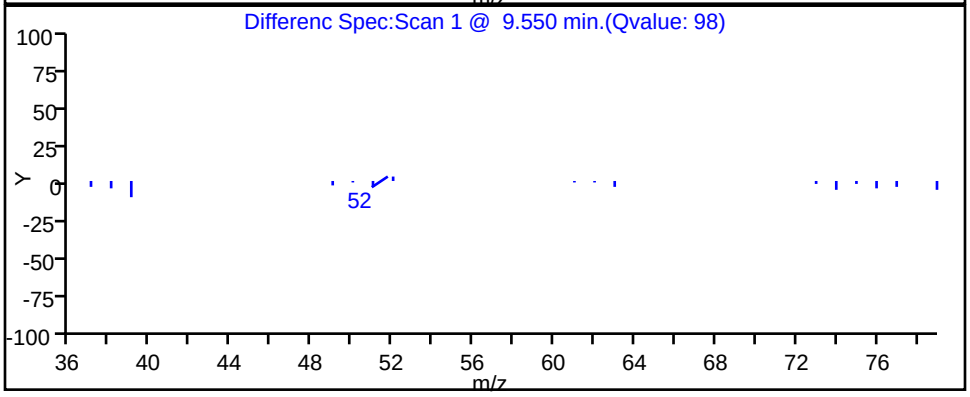








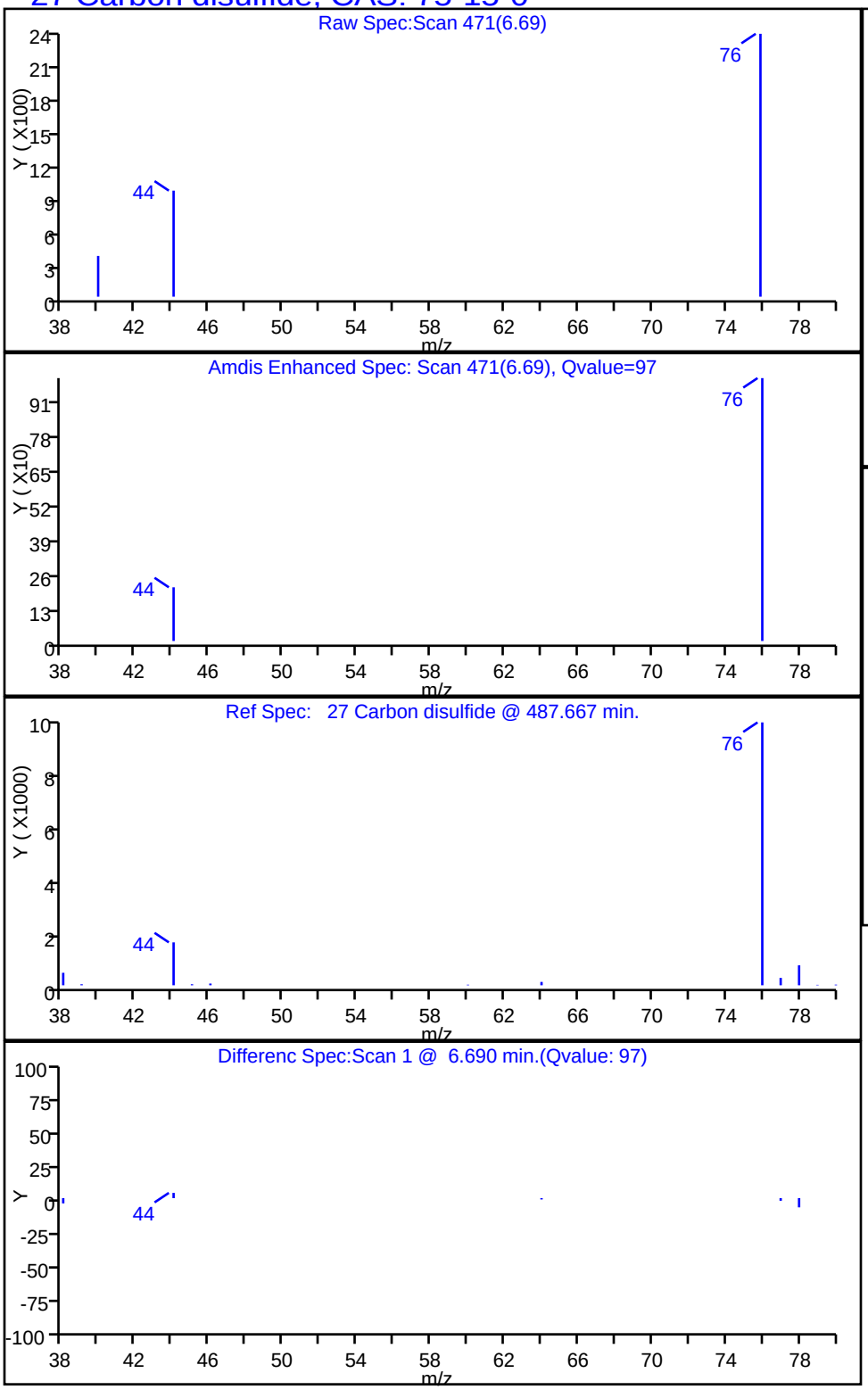


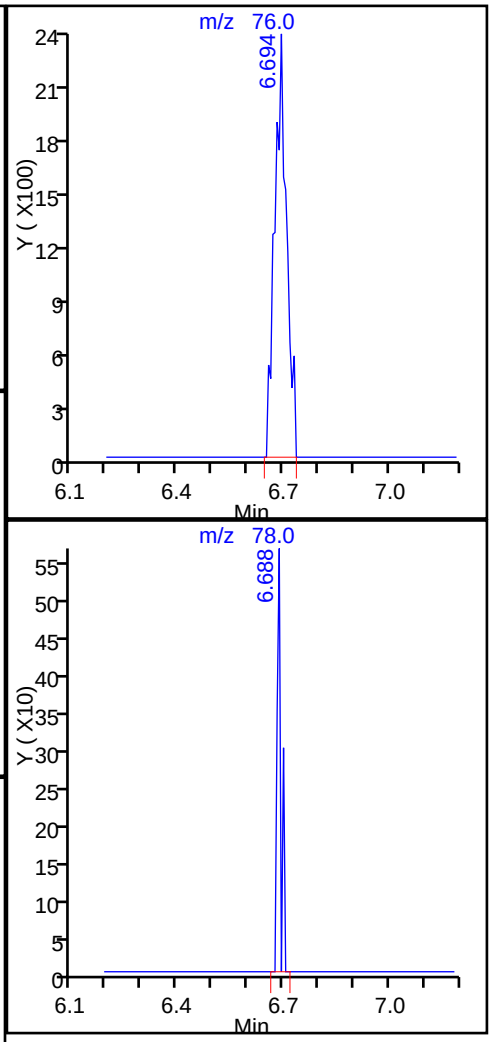


TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7863.D		
Injection Date:	07-Jul-2016 01:11:30	Instrument ID:	HP5973P
Lims ID:	480-102539-B-26	Lab Sample ID:	480-102539-26
Client ID:	DUP-1_20160630		
Operator ID:	SY	ALS Bottle#:	7 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

27 Carbon disulfide, CAS: 75-15-0





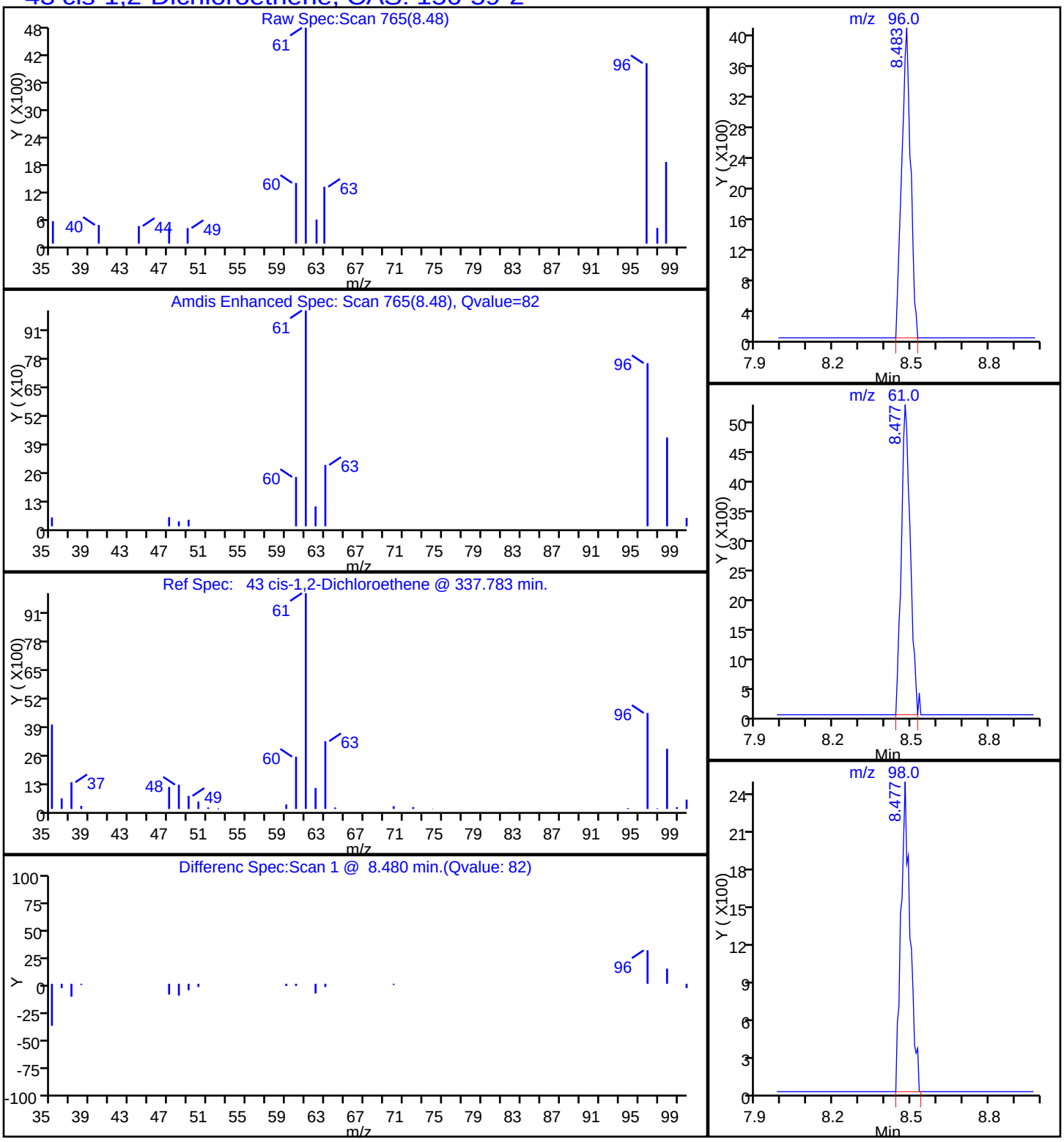
Report Date: 07-Jul-2016 09:20:53 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7863.D

Injection Date:	07-Jul-2016 01:11:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-B-26	Lab Sample ID:	480-102539-26		
Client ID:	DUP-1_20160630				
Operator ID:	SY	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

43 cis-1,2-Dichloroethene, CAS: 156-59-2

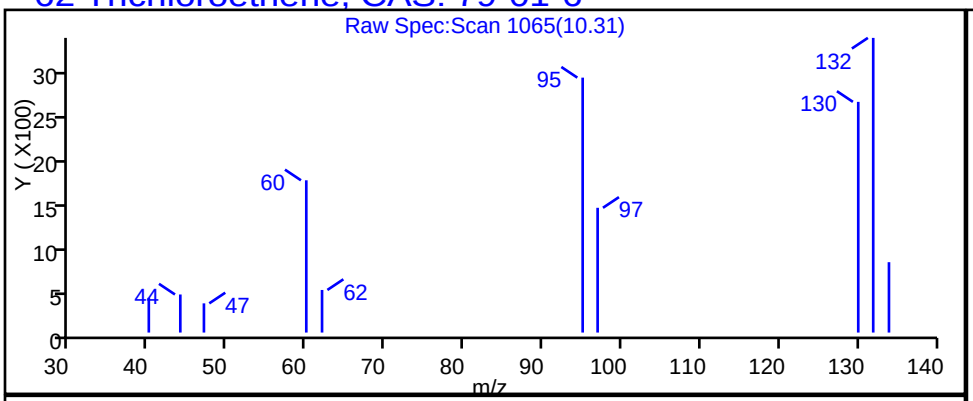


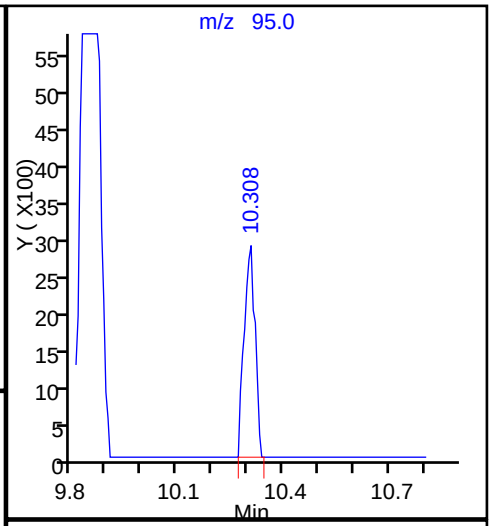
TestAmerica Buffalo

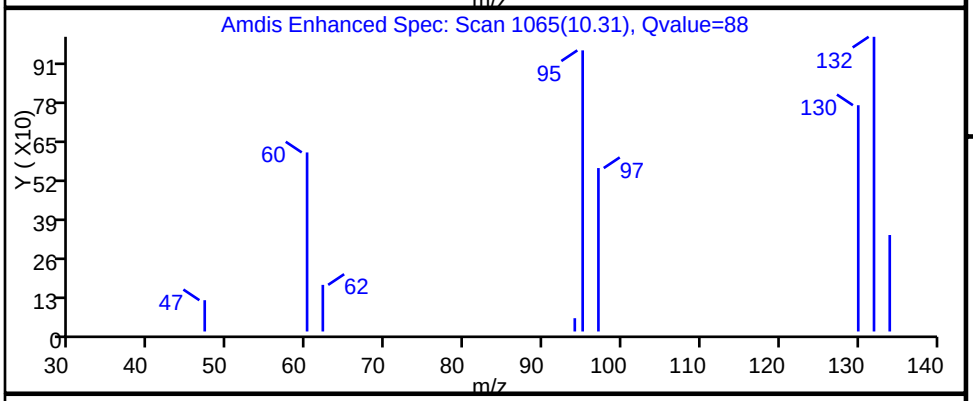
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7863.D

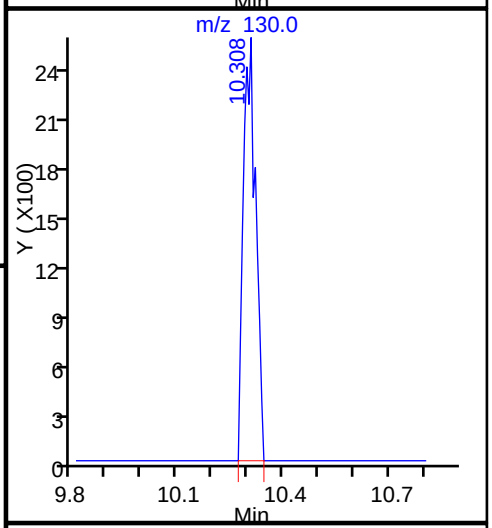
Injection Date:	07-Jul-2016 01:11:30	Instrument ID:	HP5973P
Lims ID:	480-102539-B-26	Lab Sample ID:	480-102539-26
Client ID:	DUP-1_20160630		
Operator ID:	SY	ALS Bottle#:	7 Worklist Smp#: 7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

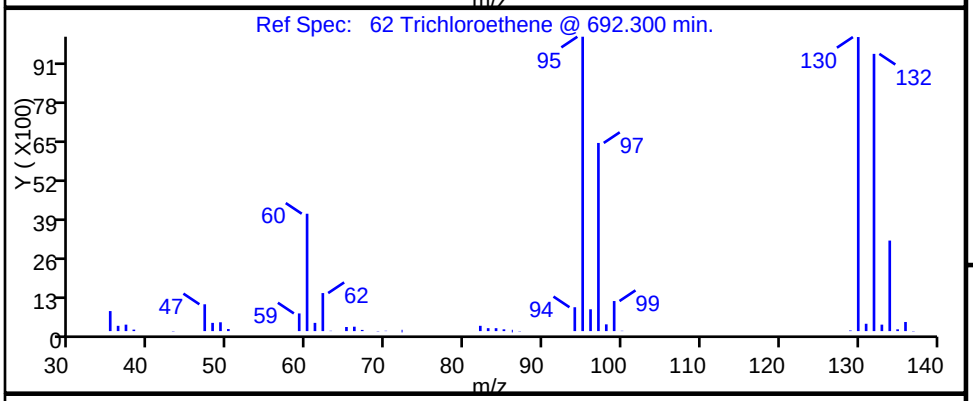
62 Trichloroethene, CAS: 79-01-6

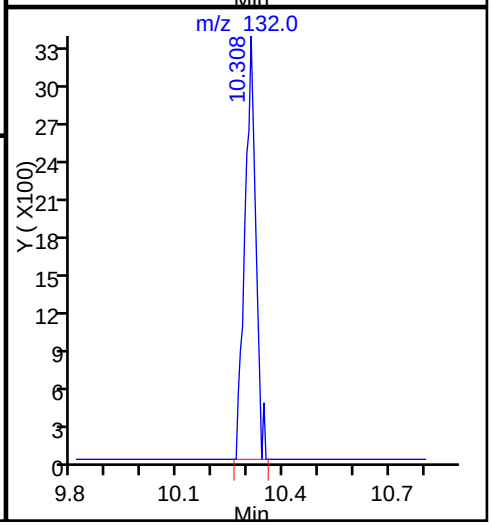


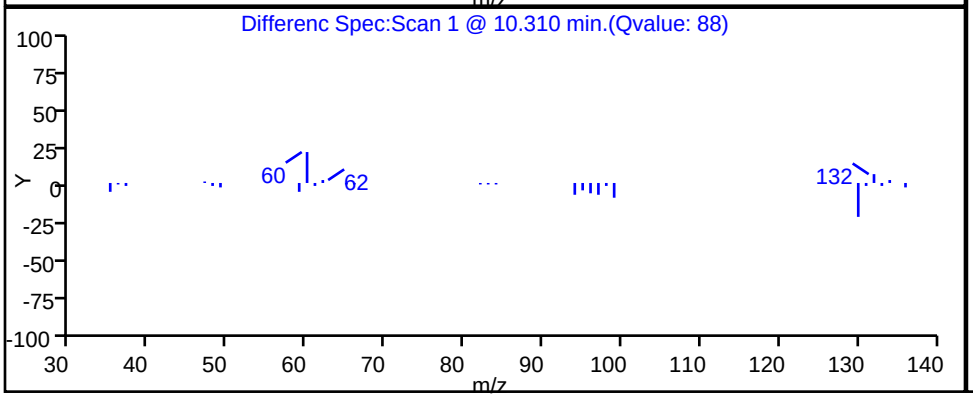








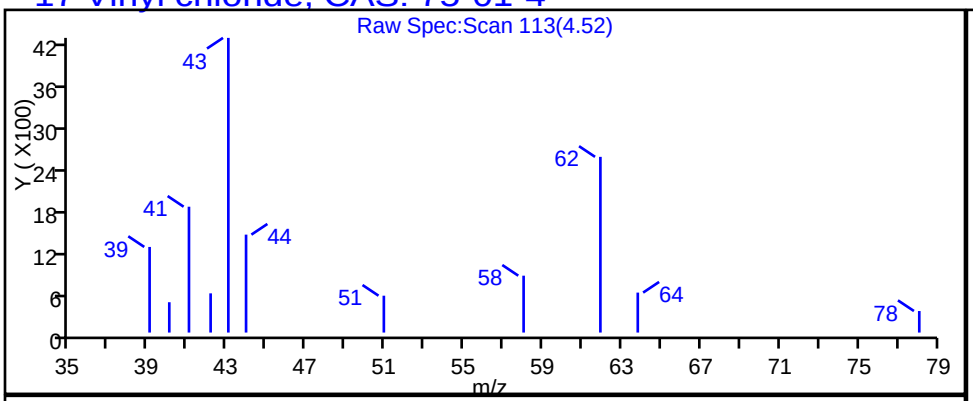


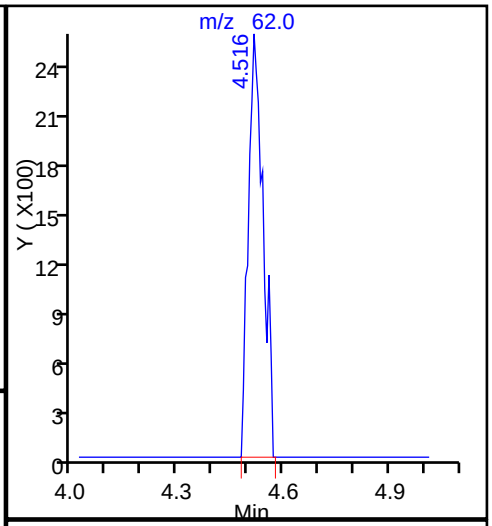


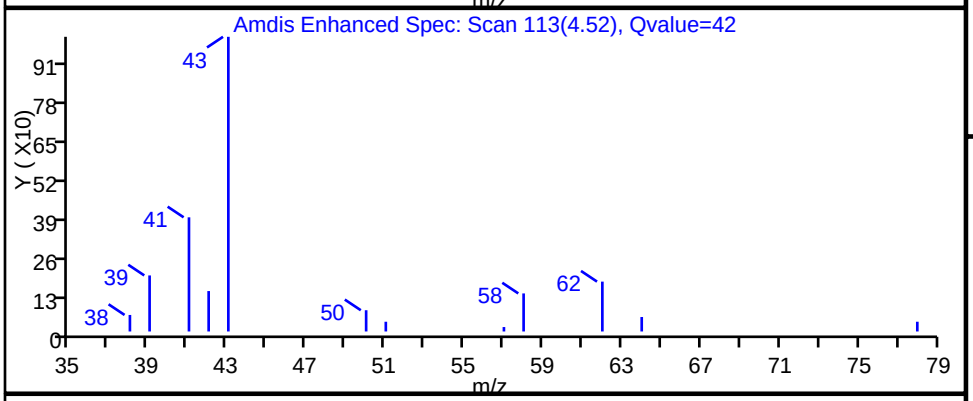
TestAmerica Buffalo

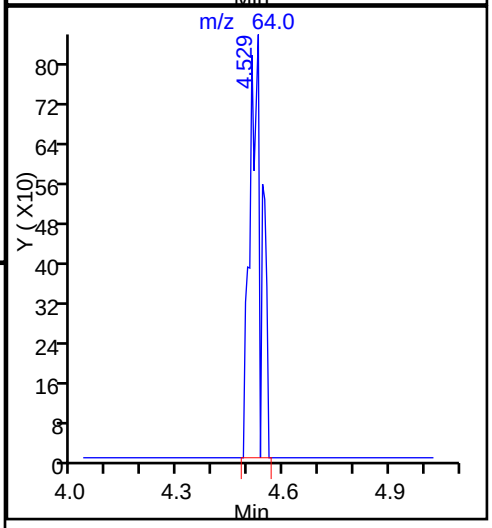
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7863.D				
Injection Date:	07-Jul-2016 01:11:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-B-26	Lab Sample ID:	480-102539-26		
Client ID:	DUP-1_20160630				
Operator ID:	SY	ALS Bottle#:	7	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

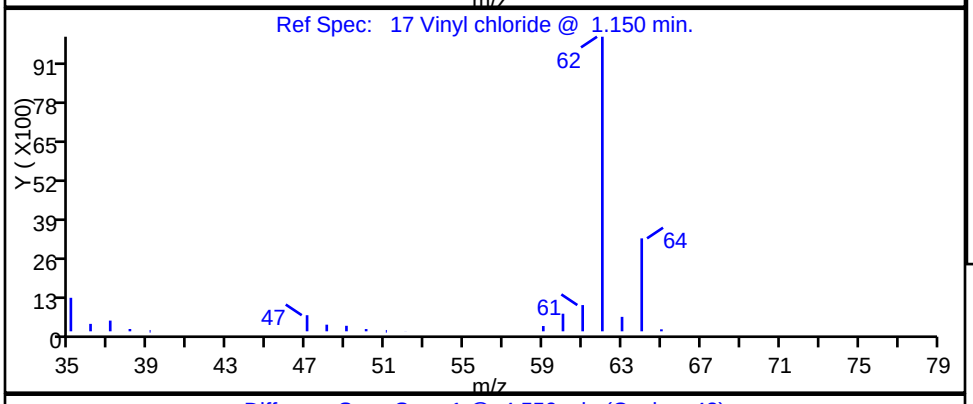
17 Vinyl chloride, CAS: 75-01-4

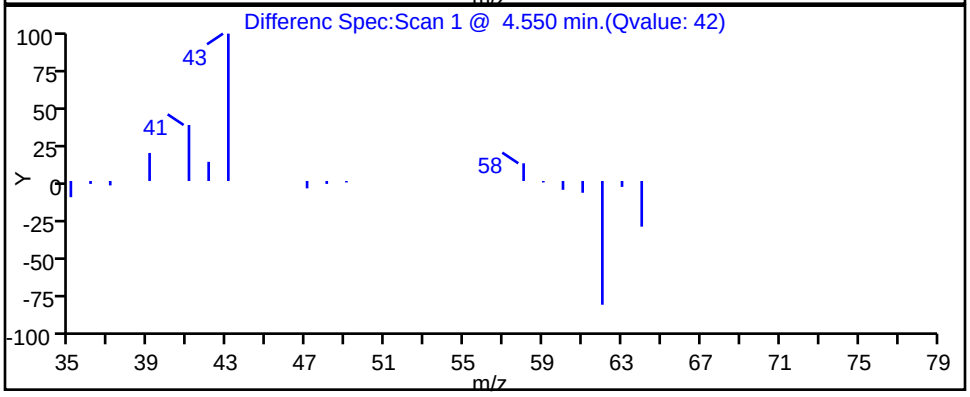












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Client Sample ID: DUP-2_20160630 Lab Sample ID: 480-102539-27

Matrix: Water Lab File ID: P7852.D

Analysis Method: 8260C Date Collected: 06/30/2016 00:00

Sample wt/vol: 5(mL) Date Analyzed: 07/06/2016 20:43

Soil Aliquot Vol: Dilution Factor: 25

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 309873 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1300		25	21
79-34-5	1,1,2,2-Tetrachloroethane	25	U	25	5.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	25	7.8
79-00-5	1,1,2-Trichloroethane	25	U	25	5.8
75-34-3	1,1-Dichloroethane	74		25	9.5
75-35-4	1,1-Dichloroethene	92		25	7.3
526-73-8	1,2,3-Trimethylbenzene	25	U	25	6.5
120-82-1	1,2,4-Trichlorobenzene	25	U	25	10
95-63-6	1,2,4-Trimethylbenzene	25	U	25	19
96-12-8	1,2-Dibromo-3-Chloropropane	25	U	25	9.8
106-93-4	1,2-Dibromoethane	25	U	25	18
95-50-1	1,2-Dichlorobenzene	25	U	25	20
107-06-2	1,2-Dichloroethane	25	U	25	5.3
78-87-5	1,2-Dichloropropane	25	U	25	18
108-67-8	1,3,5-Trimethylbenzene	25	U	25	19
541-73-1	1,3-Dichlorobenzene	25	U	25	20
106-46-7	1,4-Dichlorobenzene	25	U	25	21
78-93-3	2-Butanone (MEK)	250	U	250	33
591-78-6	2-Hexanone	130	U	130	31
108-10-1	4-Methyl-2-pentanone (MIBK)	130	U	130	53
67-64-1	Acetone	250	U	250	75
71-43-2	Benzene	25	U	25	10
75-27-4	Bromodichloromethane	25	U	25	9.8
75-25-2	Bromoform	25	U	25	6.5
74-83-9	Bromomethane	25	U	25	17
75-15-0	Carbon disulfide	25	U	25	4.8
56-23-5	Carbon tetrachloride	25	U	25	6.8
108-90-7	Chlorobenzene	25	U	25	19
75-00-3	Chloroethane	25	U	25	8.0
67-66-3	Chloroform	25	U	25	8.5
74-87-3	Chloromethane	25	U	25	8.8
156-59-2	cis-1,2-Dichloroethene	340		25	20
10061-01-5	cis-1,3-Dichloropropene	25	U	25	9.0
110-82-7	Cyclohexane	25	U	25	4.5
124-48-1	Dibromochloromethane	25	U	25	8.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: DUP-2_20160630 | Lab Sample ID: 480-102539-27

Matrix: Water | Lab File ID: P7852.D

Analysis Method: 8260C | Date Collected: 06/30/2016 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 20:43

Soil Aliquot Vol: | Dilution Factor: 25

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

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

Analysis Batch No.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	25	U	25	17
100-41-4	Ethylbenzene	25	U	25	19
98-82-8	Isopropylbenzene	25	U	25	20
79-20-9	Methyl acetate	63	U	63	33
1634-04-4	Methyl tert-butyl ether	25	U	25	4.0
108-87-2	Methylcyclohexane	25	U	25	4.0
75-09-2	Methylene Chloride	25	U	25	11
100-42-5	Styrene	25	U	25	18
127-18-4	Tetrachloroethene	25	U	25	9.0
108-88-3	Toluene	25	U	25	13
156-60-5	trans-1,2-Dichloroethene	25	U	25	23
10061-02-6	trans-1,3-Dichloropropene	25	U	25	9.3
79-01-6	Trichloroethene	390		25	12
75-69-4	Trichlorofluoromethane	25	U	25	22
75-01-4	Vinyl chloride	100		25	23
1330-20-7	Xylenes, Total	50	U	50	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		66-137
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7852.D
Lims ID: 480-102539-A-27
Client ID: DUP-2_20160630
Sample Type: Client
Inject. Date: 06-Jul-2016 20:43:30 ALS Bottle#: 13 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 25.0000
Sample Info: 480-102539-A-27
Misc. Info.: 480-0054607-019
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:39:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.851	0.007	99	96044	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	199381	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	96	236006	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.042	0.007	93	147110	26.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.480	0.007	0	91864	26.8	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	448442	23.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.007	92	163041	22.5	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.316				ND	
17 Vinyl chloride	62	4.541	4.547	-0.006	96	22200	4.07	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.228				ND	
14 Trichlorofluoromethane	101		5.636				ND	
16 1,1,2-Trichloro-1,2,2-trif	101	6.269	6.269	0.000	16	4167	0.5814	
25 1,1-Dichloroethene	96	6.323	6.311	0.012	93	23253	3.66	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.731				ND	
31 Methylene Chloride	84		6.938				ND	
32 Methyl tert-butyl ether	73		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63	7.789	7.783	0.006	97	38438	2.96	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	83	104171	13.7	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	98	572859	50.9	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.298				ND	
57 Benzene	78		9.554				ND	
60 1,2-Dichloroethane	62		9.578				ND	
62 Trichloroethene	95	10.308	10.302	0.006	93	109900	15.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.612				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.182				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.669				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.278				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

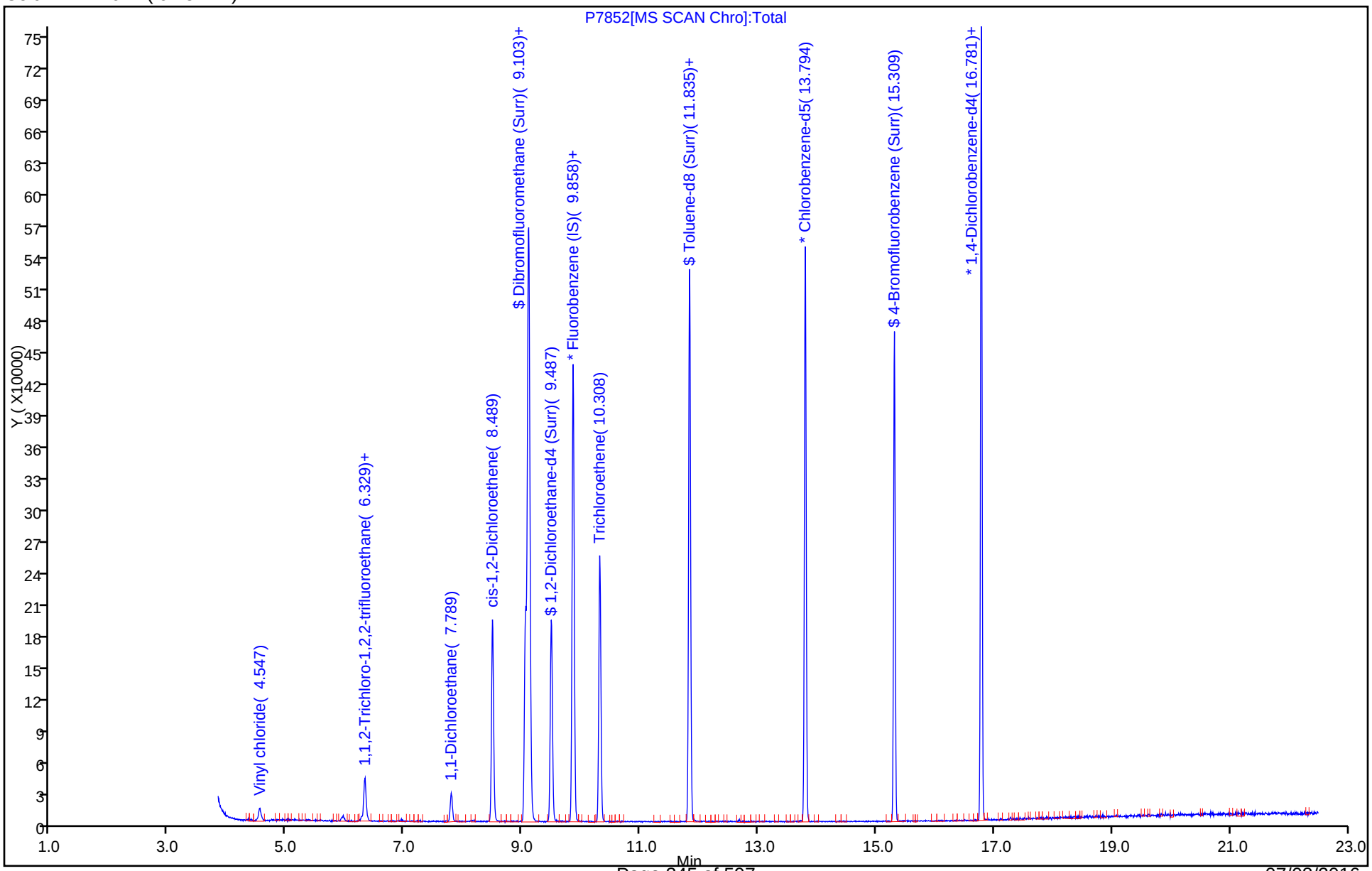
Report Date: 06-Jul-2016 21:39:40 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7852.D

Injection Date:	06-Jul-2016 20:43:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-27	Lab Sample ID:	480-102539-27	Worklist Smp#:	19
Client ID:	DUP-2_20160630				
Purge Vol:	5.000 mL	Dil. Factor:	25.0000	ALS Bottle#:	13
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

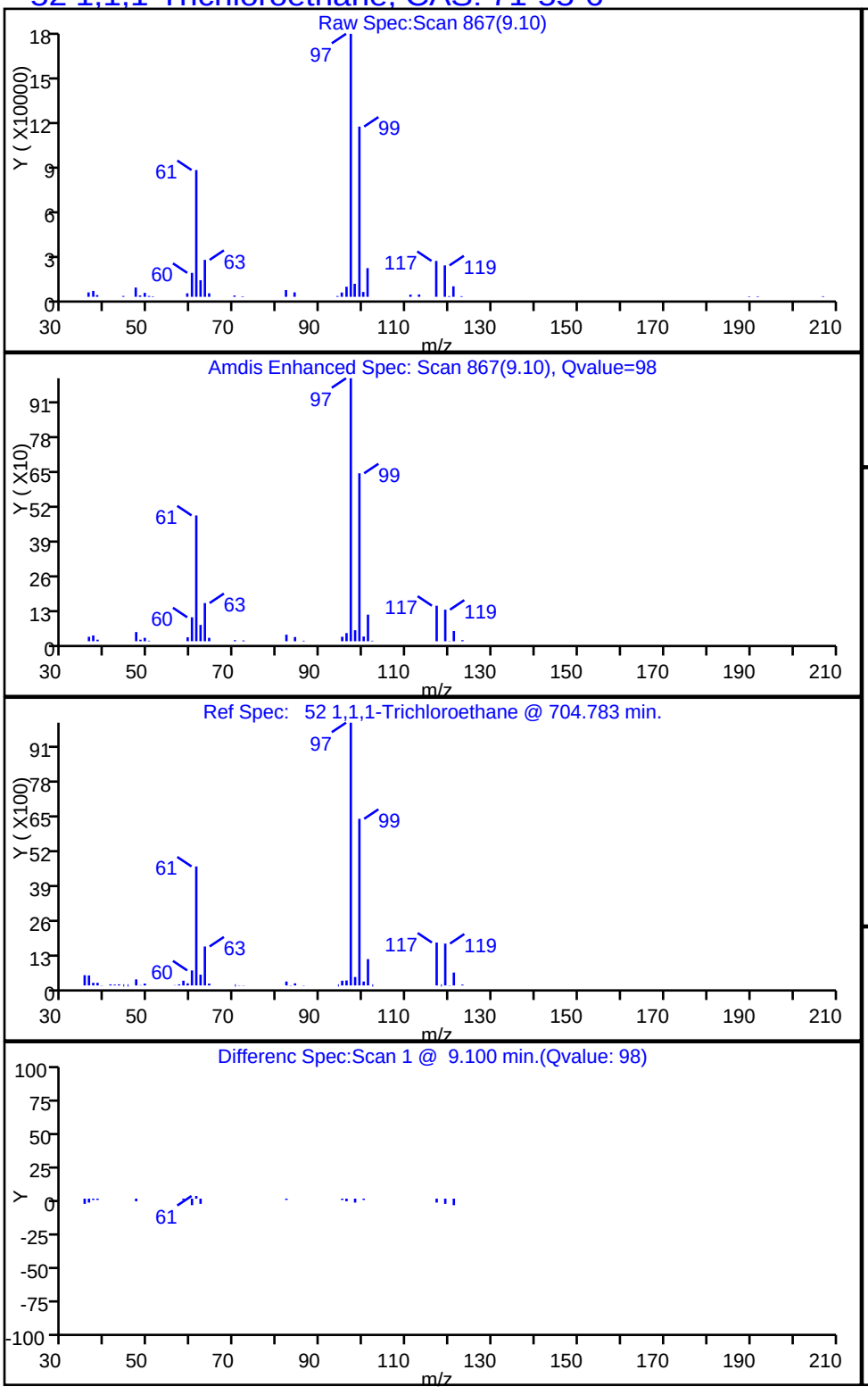
Column: ZB-624 (0.25 mm)

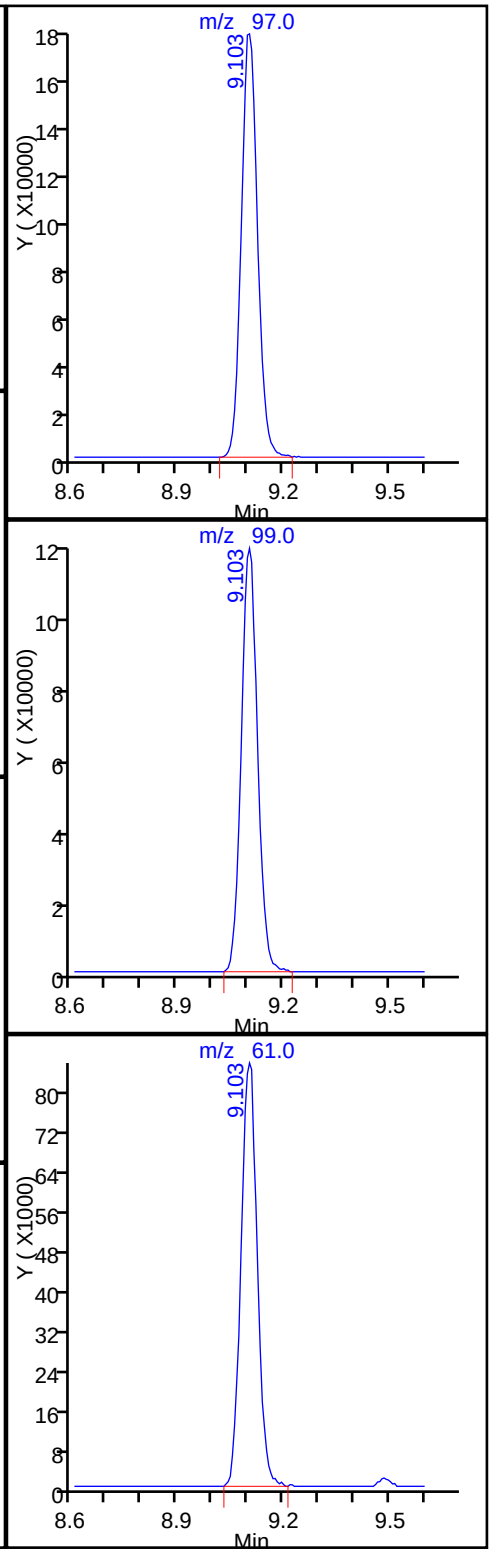


TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7852.D				
Injection Date:	06-Jul-2016 20:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-27	Lab Sample ID:	480-102539-27		
Client ID:	DUP-2_20160630				
Operator ID:	CDC	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

52 1,1,1-Trichloroethane, CAS: 71-55-6

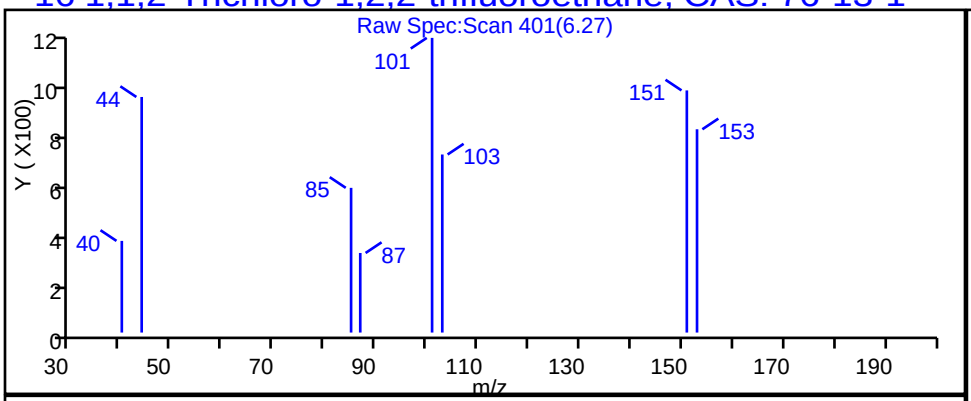


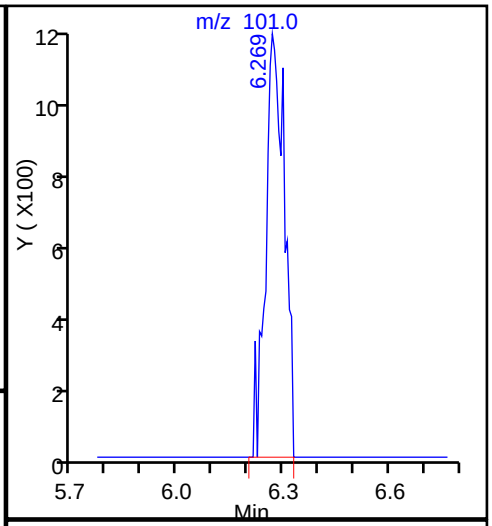


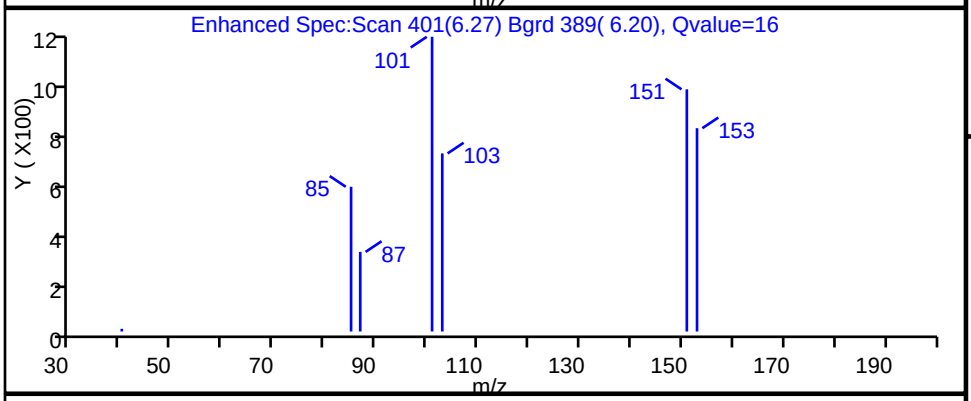
TestAmerica Buffalo

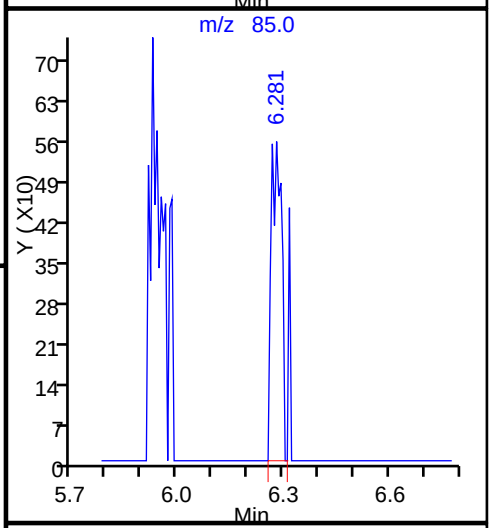
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7852.D				
Injection Date:	06-Jul-2016 20:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-27	Lab Sample ID:	480-102539-27		
Client ID:	DUP-2_20160630				
Operator ID:	CDC	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

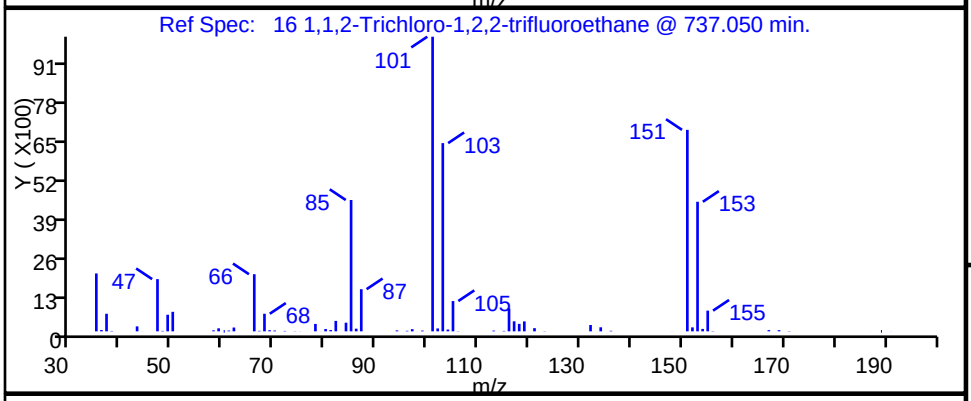
16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

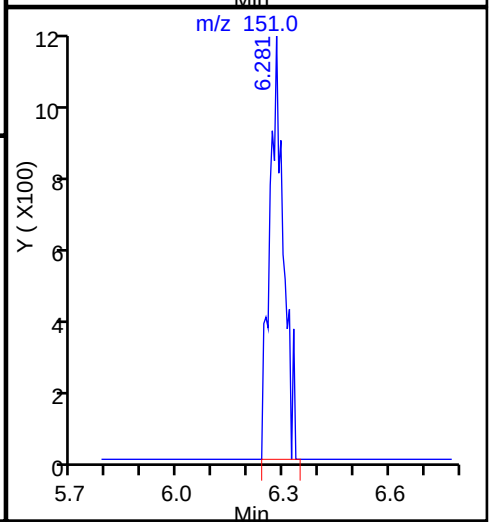


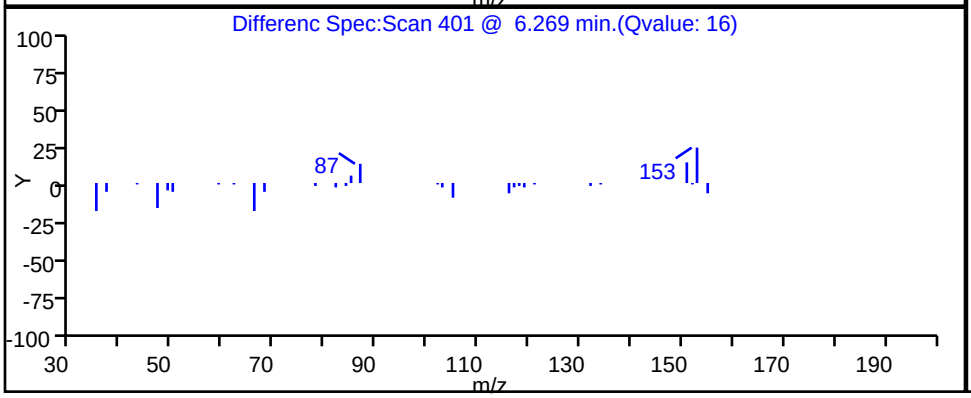










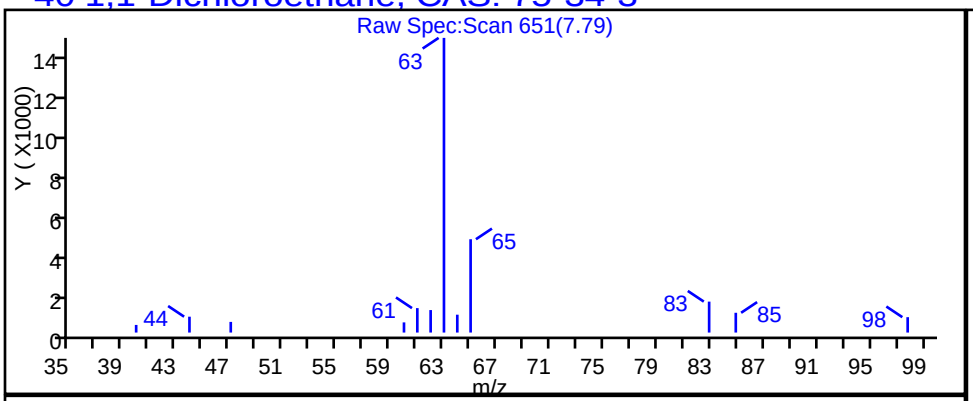


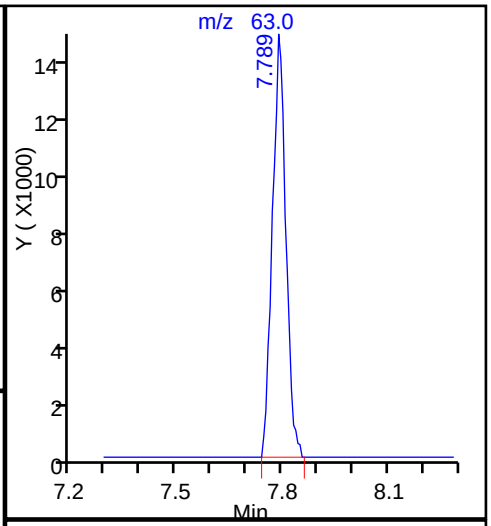
TestAmerica Buffalo

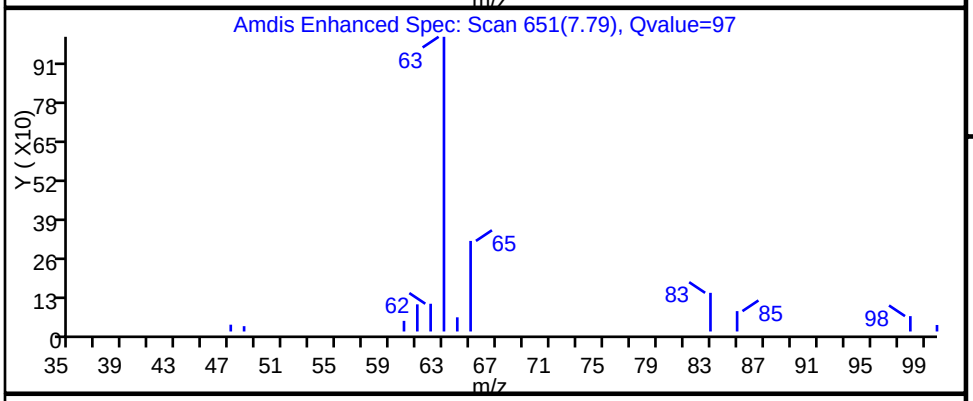
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7852.D

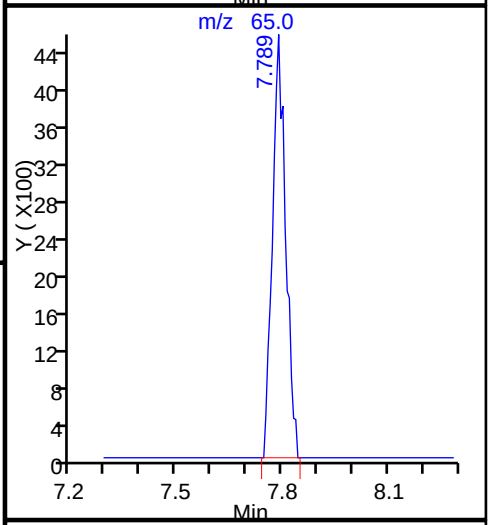
Injection Date:	06-Jul-2016 20:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-27	Lab Sample ID:	480-102539-27		
Client ID:	DUP-2_20160630				
Operator ID:	CDC	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

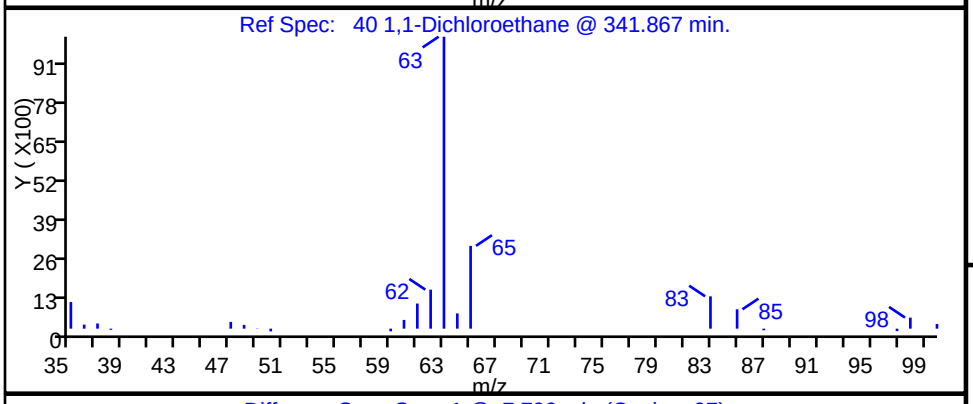
40 1,1-Dichloroethane, CAS: 75-34-3

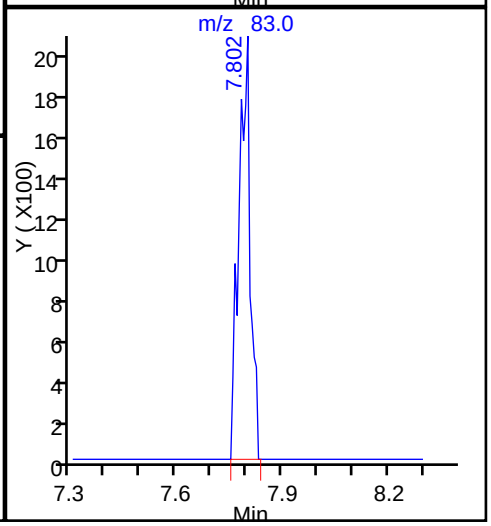


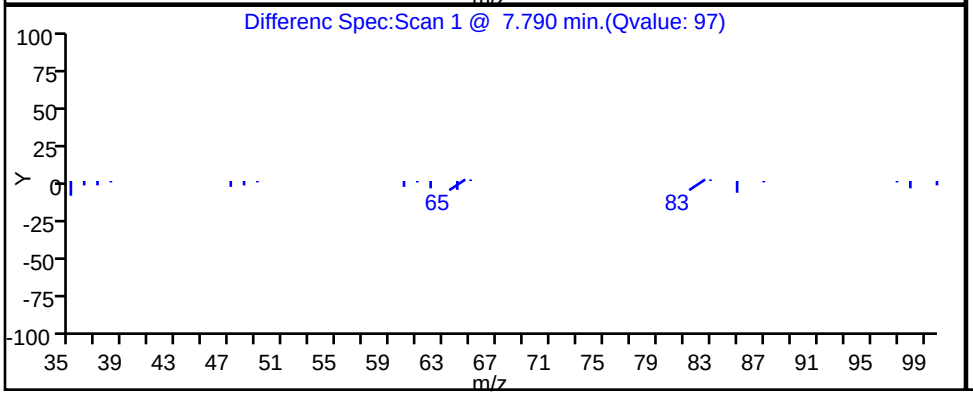








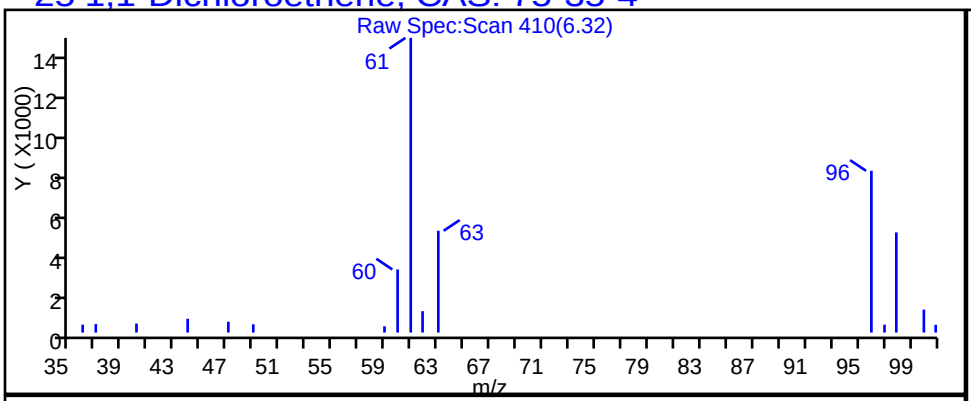


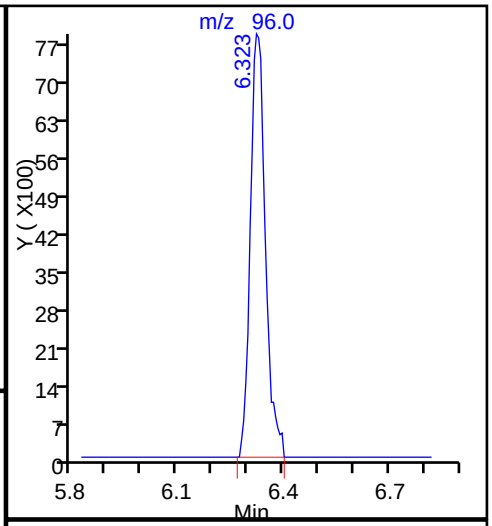


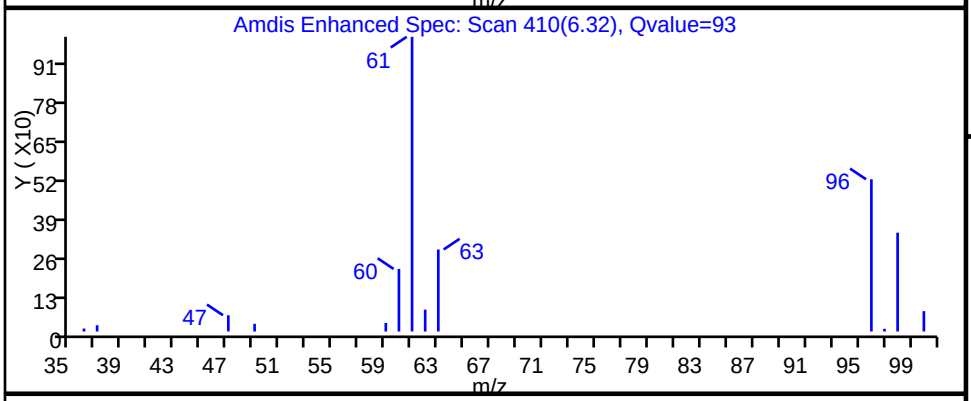
TestAmerica Buffalo

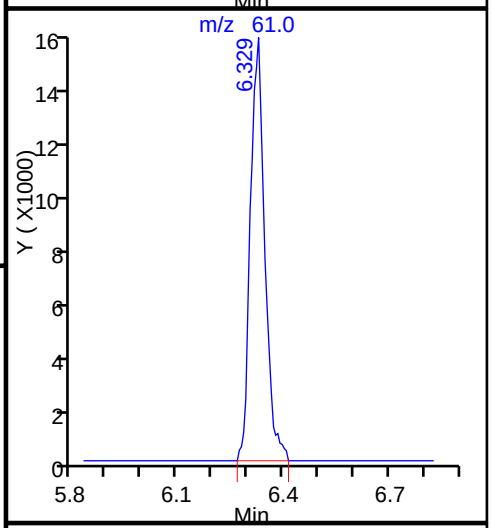
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7852.D				
Injection Date:	06-Jul-2016 20:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-27	Lab Sample ID:	480-102539-27		
Client ID:	DUP-2_20160630				
Operator ID:	CDC	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

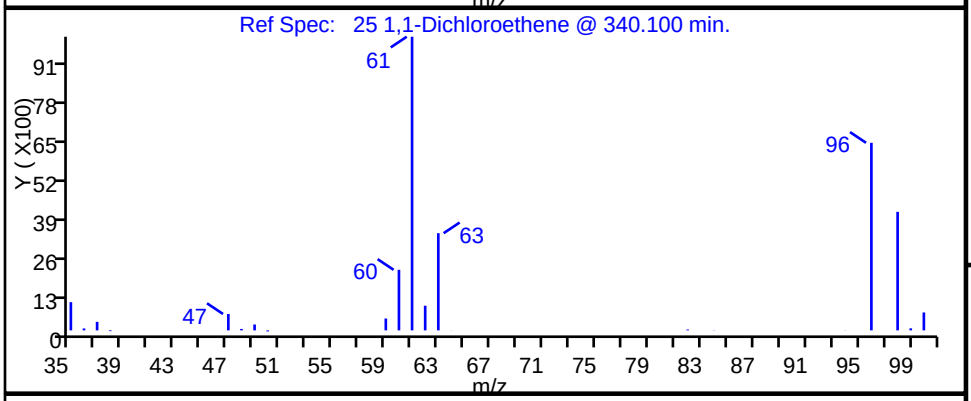
25 1,1-Dichloroethene, CAS: 75-35-4

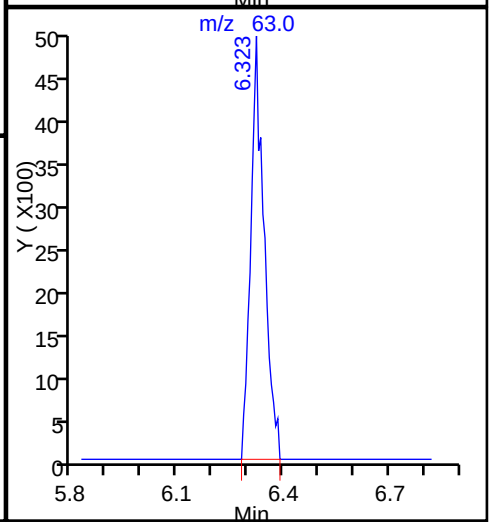


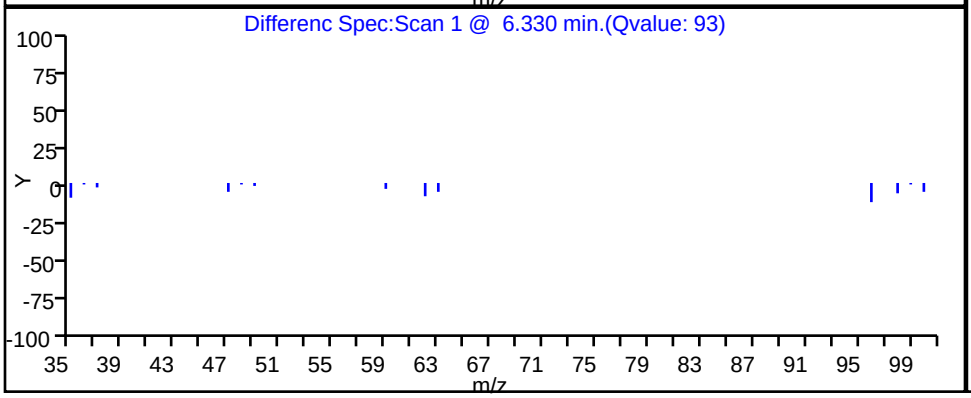






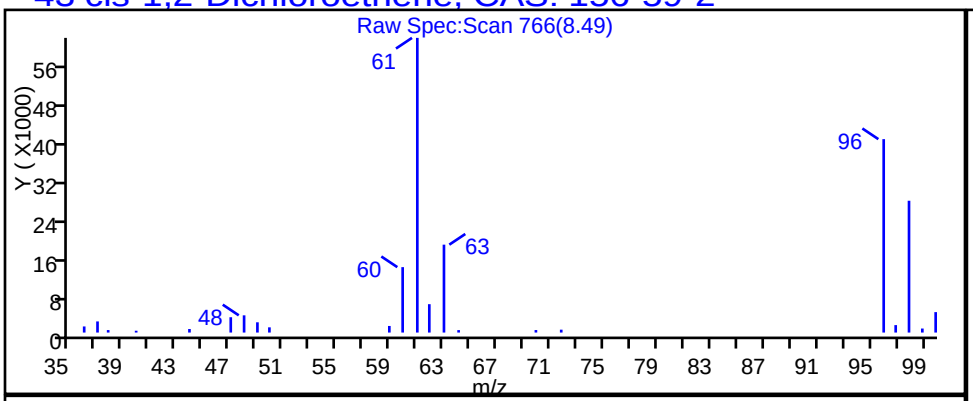


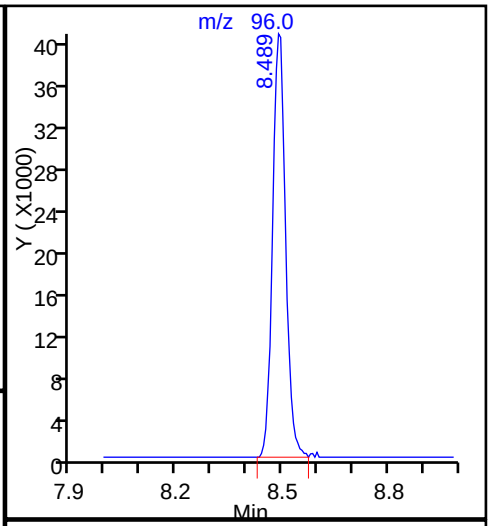


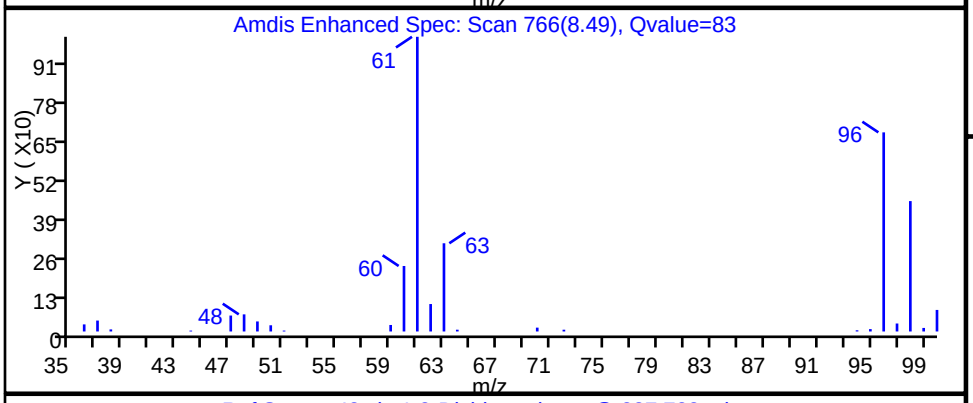


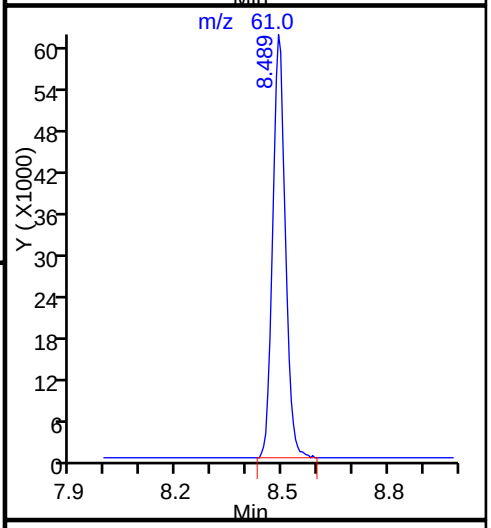
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7852.D
Injection Date: 06-Jul-2016 20:43:30 Instrument ID: HP5973P
Lims ID: 480-102539-A-27 Lab Sample ID: 480-102539-27
Client ID: DUP-2_20160630
Operator ID: CDC ALS Bottle#: 13 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 25.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

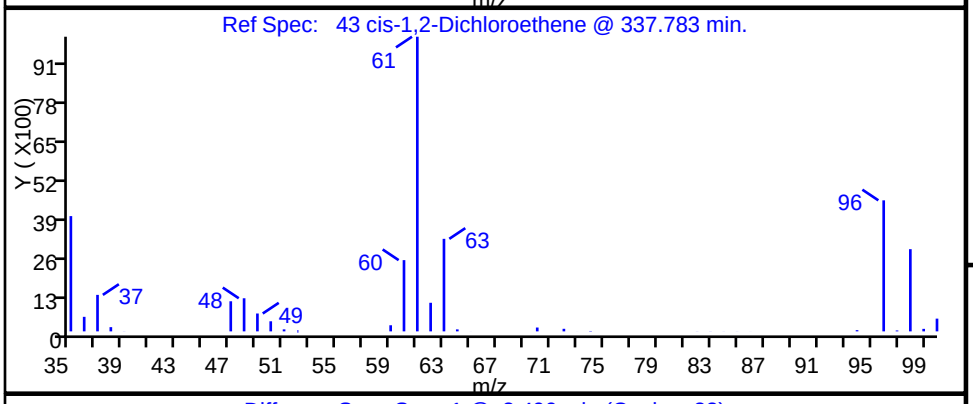
43 cis-1,2-Dichloroethene, CAS: 156-59-2

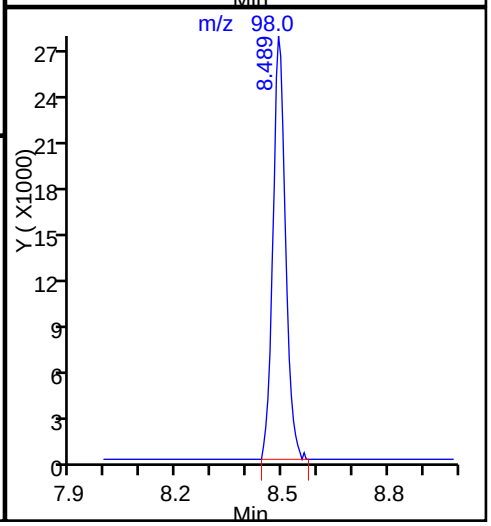


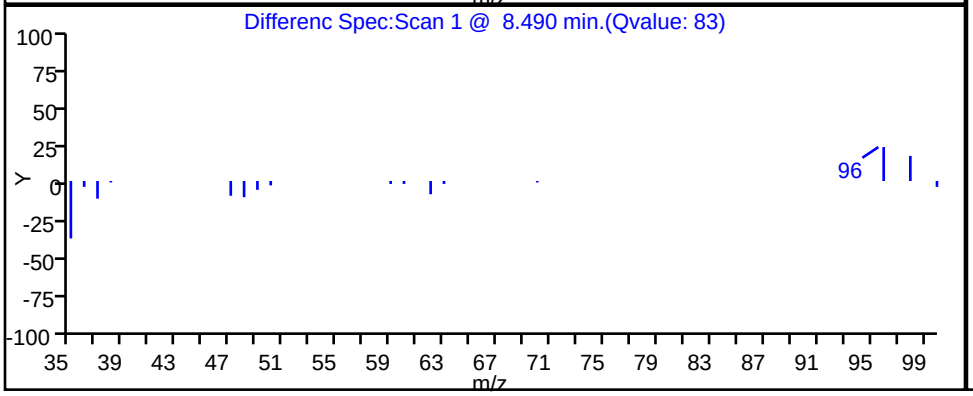








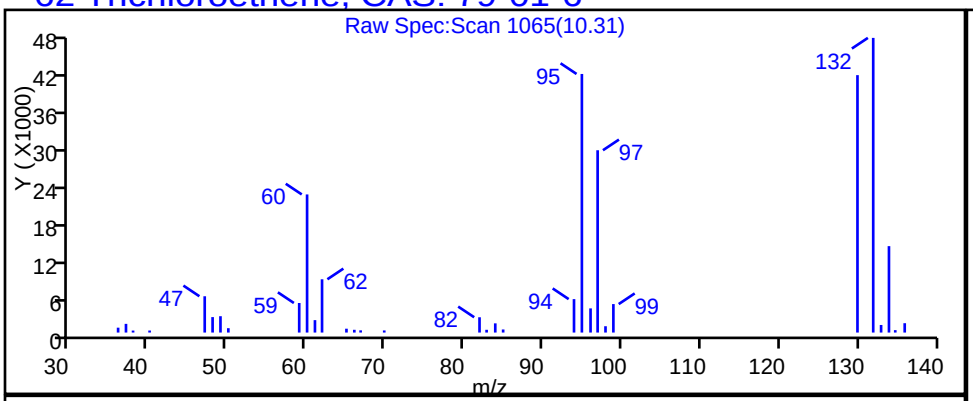


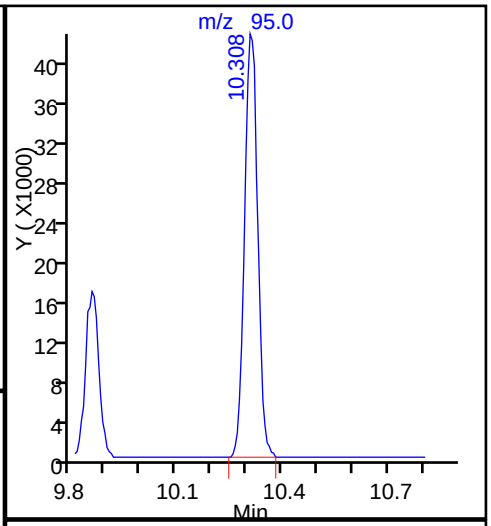


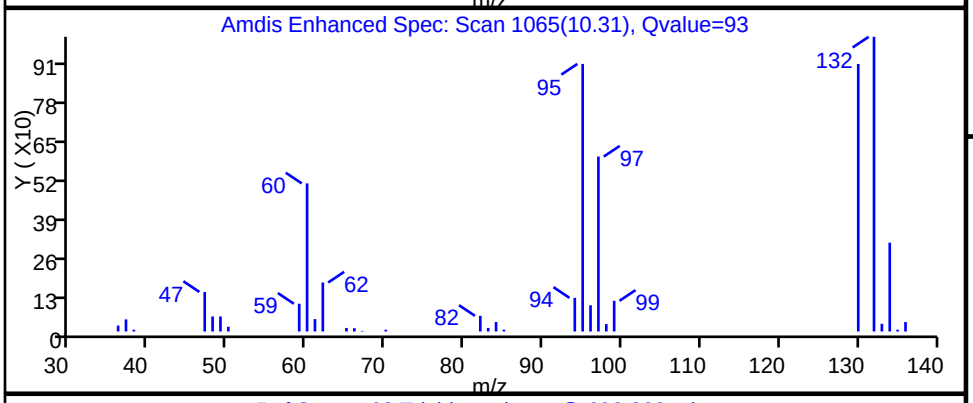
TestAmerica Buffalo

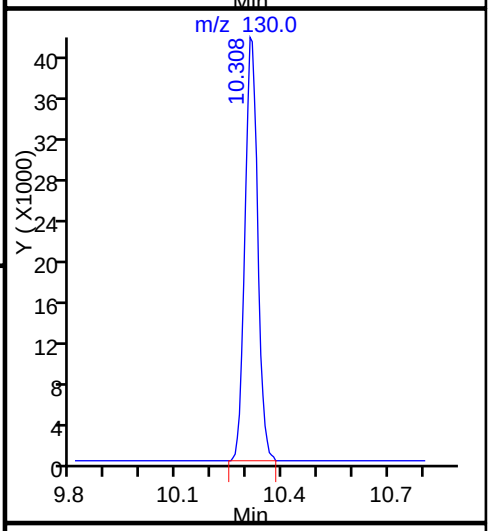
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7852.D				
Injection Date:	06-Jul-2016 20:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-27	Lab Sample ID:	480-102539-27		
Client ID:	DUP-2_20160630				
Operator ID:	CDC	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

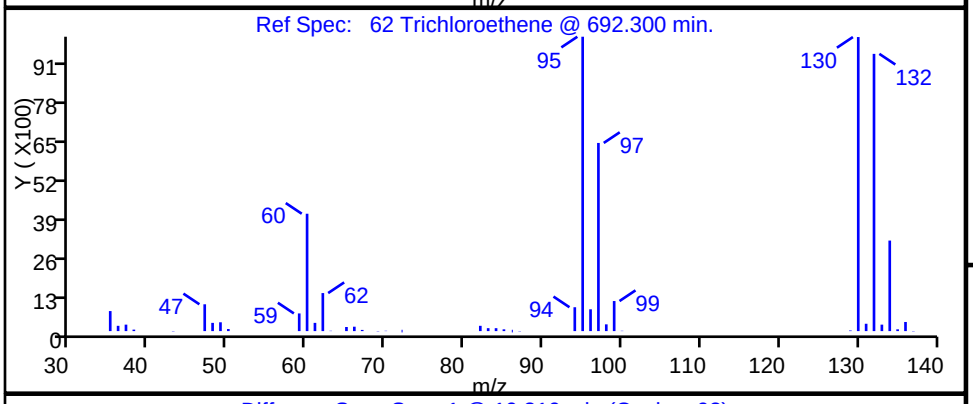
62 Trichloroethene, CAS: 79-01-6

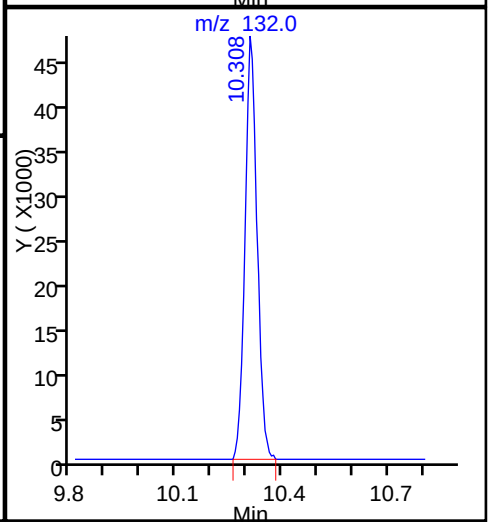


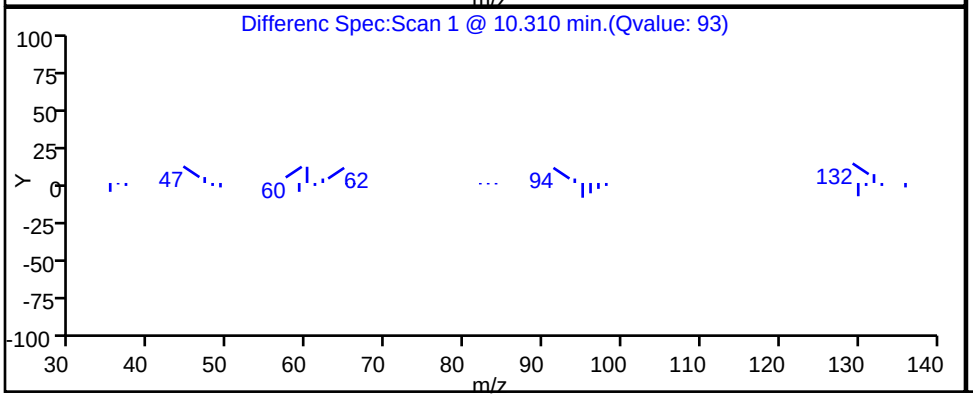








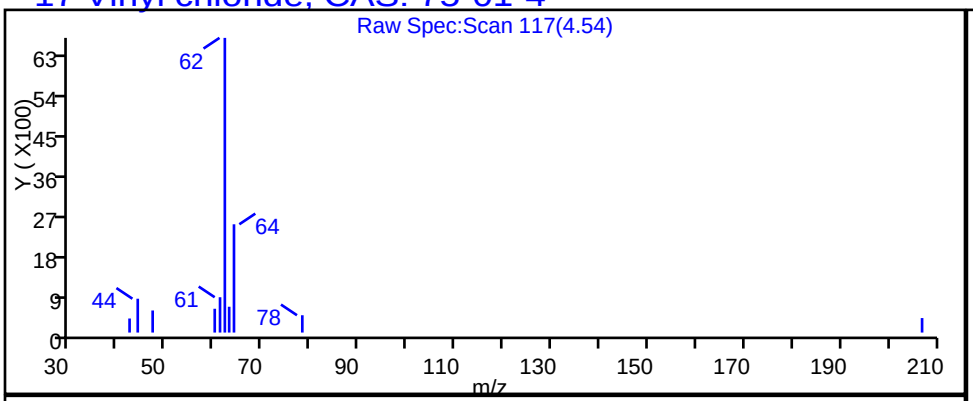


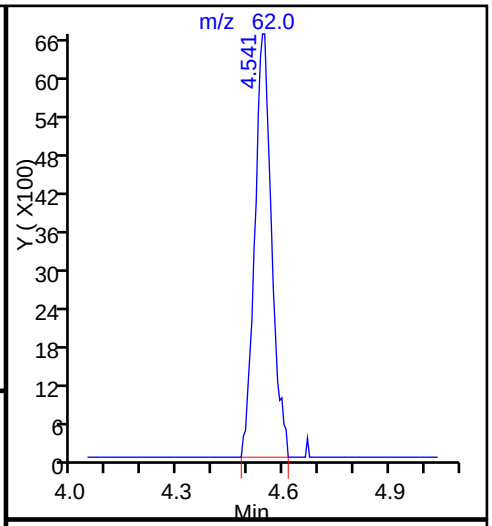


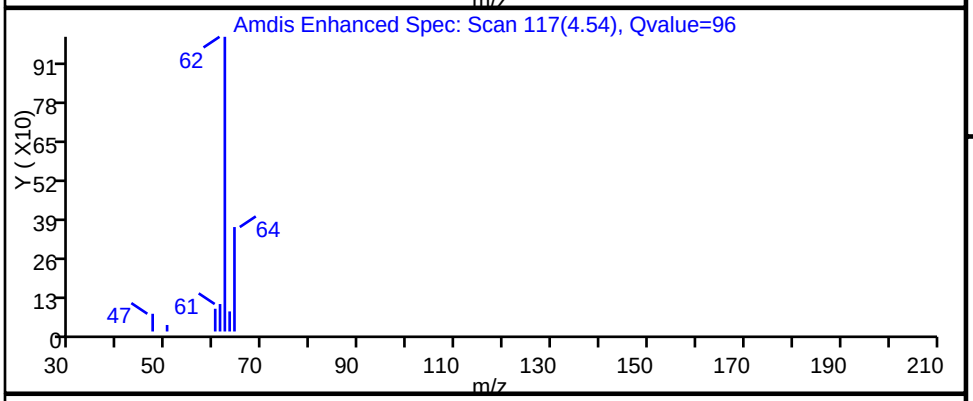
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7852.D

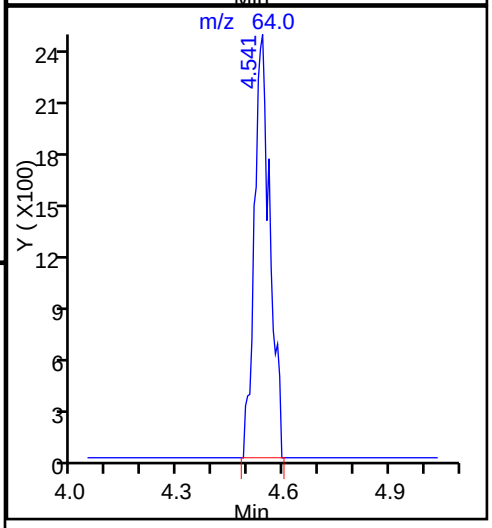
Injection Date:	06-Jul-2016 20:43:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-27	Lab Sample ID:	480-102539-27		
Client ID:	DUP-2_20160630				
Operator ID:	CDC	ALS Bottle#:	13	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	25.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

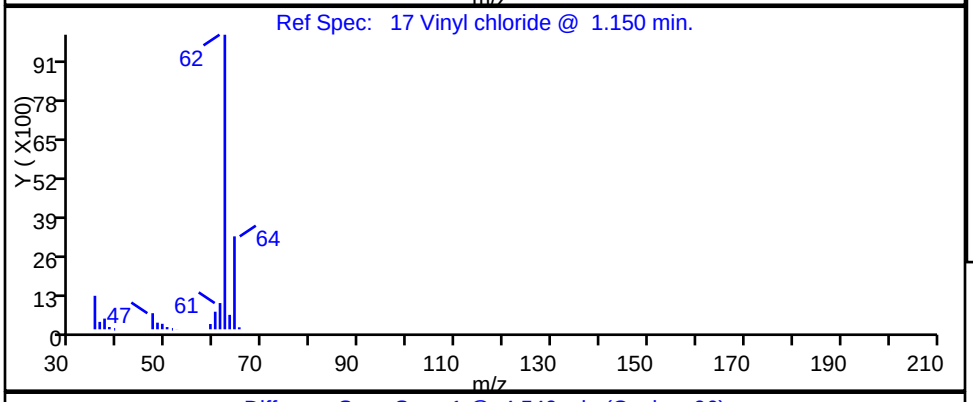
17 Vinyl chloride, CAS: 75-01-4

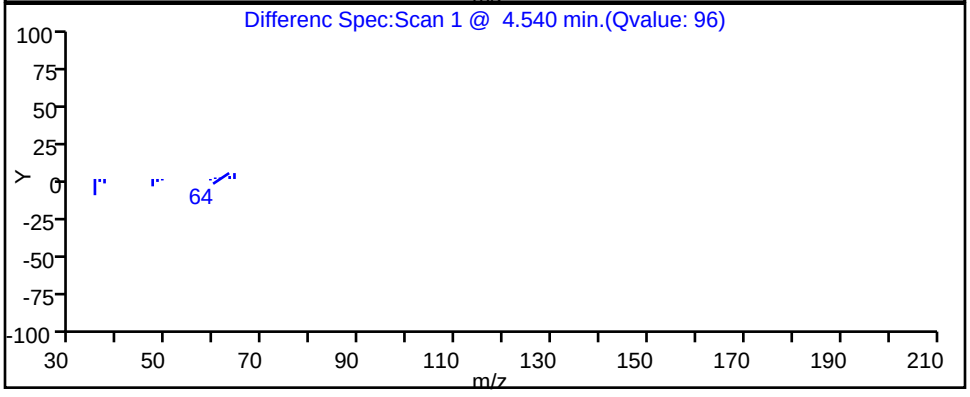












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: FIELD BLANK | Lab Sample ID: 480-102539-28

Matrix: Water | Lab File ID: P7864.D

Analysis Method: 8260C | Date Collected: 06/30/2016 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2016 01:38

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.: 309962 | 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	4.2	J *	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.: 480-102539-1

SDG No.:

Client Sample ID: FIELD BLANK | Lab Sample ID: 480-102539-28

Matrix: Water | Lab File ID: P7864.D

Analysis Method: 8260C | Date Collected: 06/30/2016 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2016 01:38

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.: 309962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U *	2.5	1.3
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
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)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		60-140
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7864.D
Lims ID: 480-102539-A-28
Client ID: FIELD BLANK
Sample Type: Client
Inject. Date: 07-Jul-2016 01:38:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-28
Misc. Info.: 480-0054624-008
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 04:04:07 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 09:21:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.851	9.852	-0.001	98	105051	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	207009	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	252554	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.049	-0.007	93	155141	25.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.486	9.493	-0.007	0	96540	25.8	
$ 5 Toluene-d8 (Surr)	98	11.829	11.835	-0.006	94	493581	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	93	187756	24.9	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.310				ND	
17 Vinyl chloride	62		4.541				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.222				ND	
14 Trichlorofluoromethane	101		5.630				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43	6.359	6.354	0.005	98	14992	4.16	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.725				ND	
31 Methylene Chloride	84		6.932				ND	
32 Methyl tert-butyl ether	73		7.187				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63		7.777				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.304				ND	
57 Benzene	78	9.553	9.548	0.005	91	8571	0.3004	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.618				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.271				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00152	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

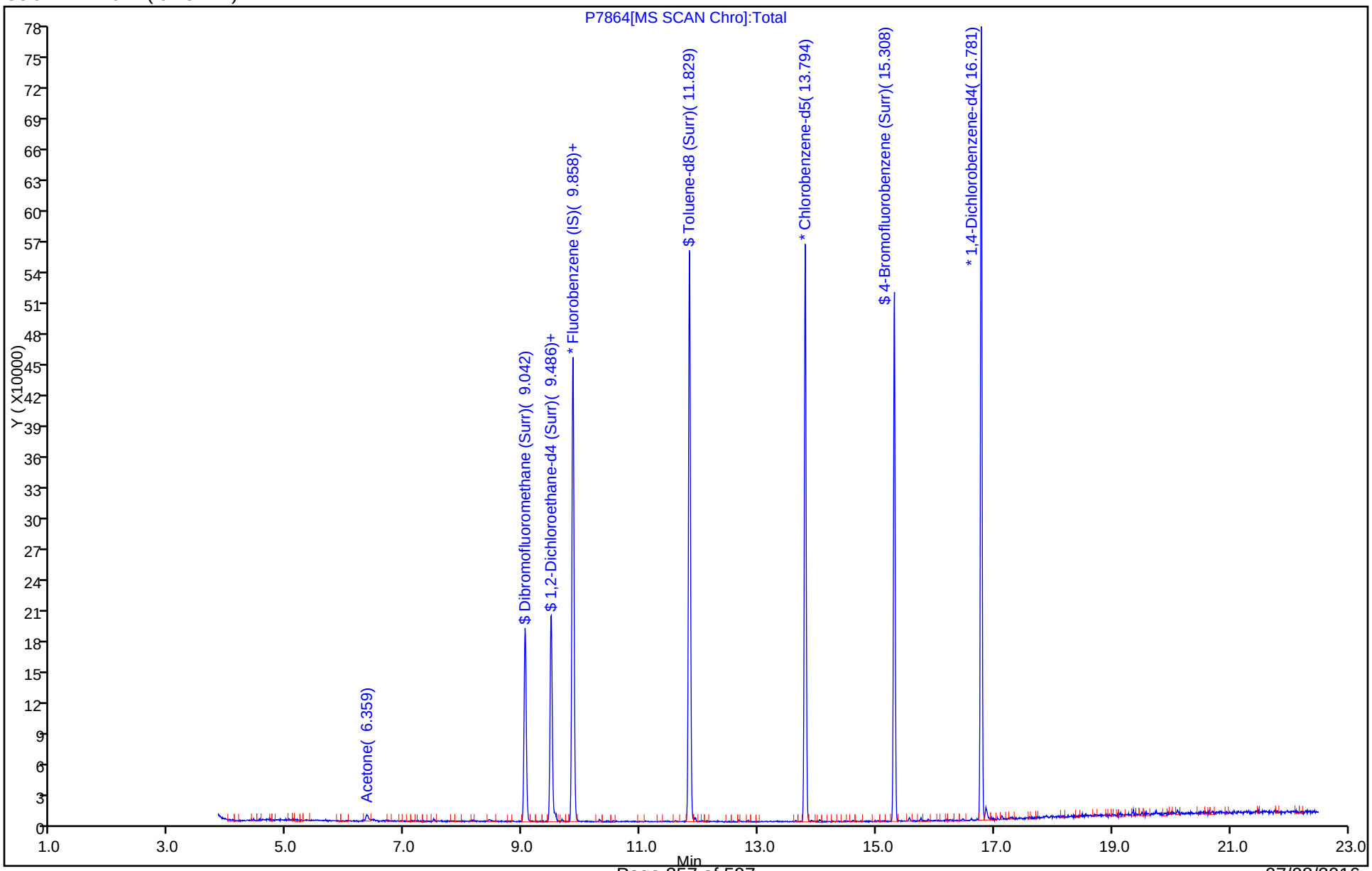
Report Date: 07-Jul-2016 09:21:38 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7864.D

Injection Date:	07-Jul-2016 01:38:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-28	Lab Sample ID:	480-102539-28	Worklist Smp#:	8
Client ID:	FIELD BLANK				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

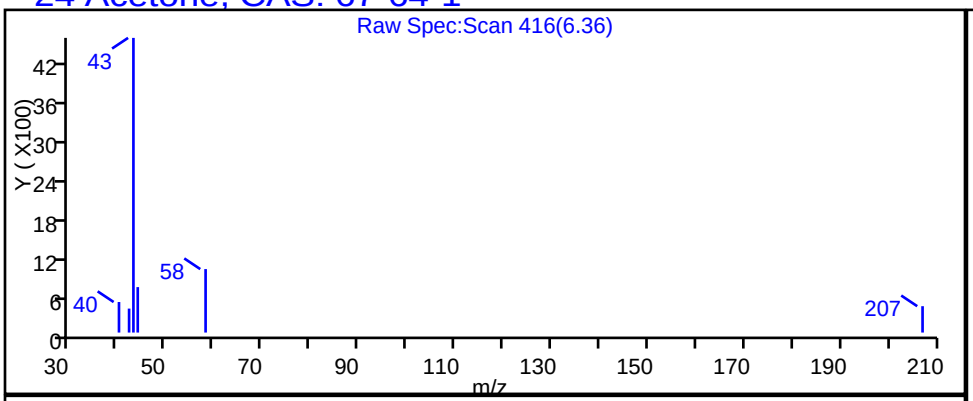
Column: ZB-624 (0.25 mm)

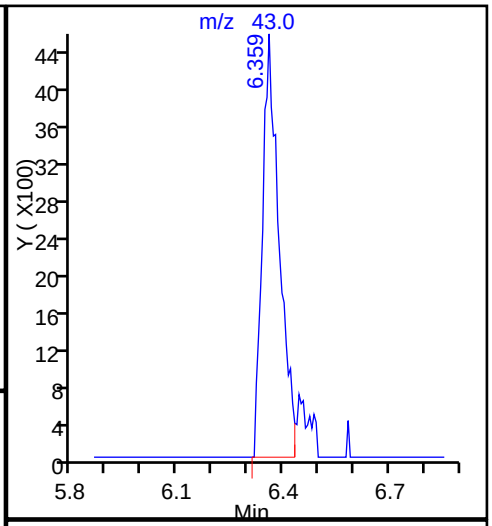


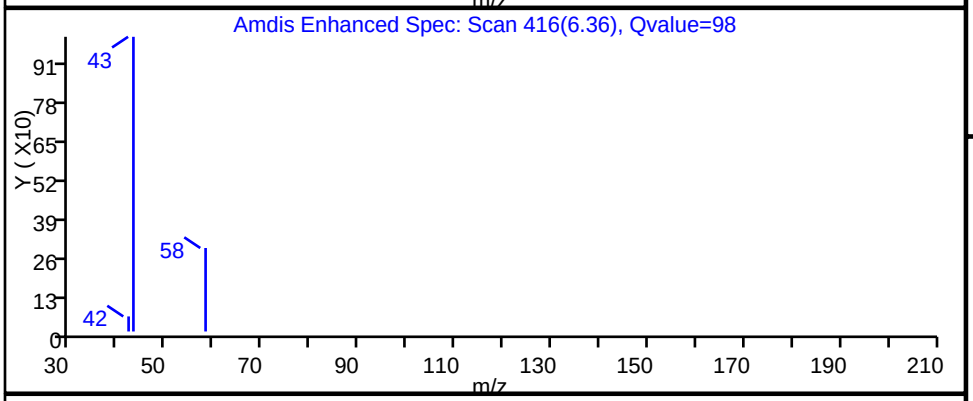
TestAmerica Buffalo

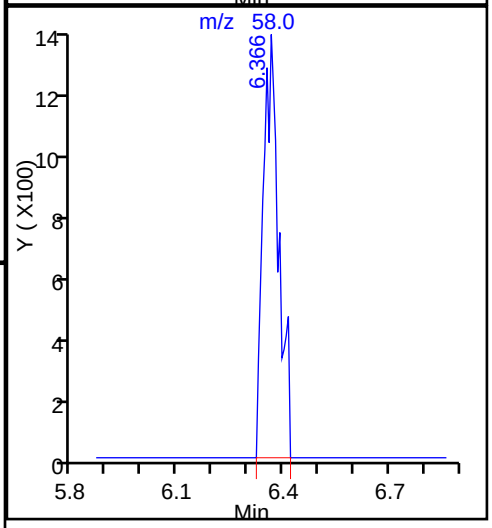
Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7864.D				
Injection Date:	07-Jul-2016 01:38:30	Instrument ID:	HP5973P		
Lims ID:	480-102539-A-28	Lab Sample ID:	480-102539-28		
Client ID:	FIELD BLANK				
Operator ID:	SY	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

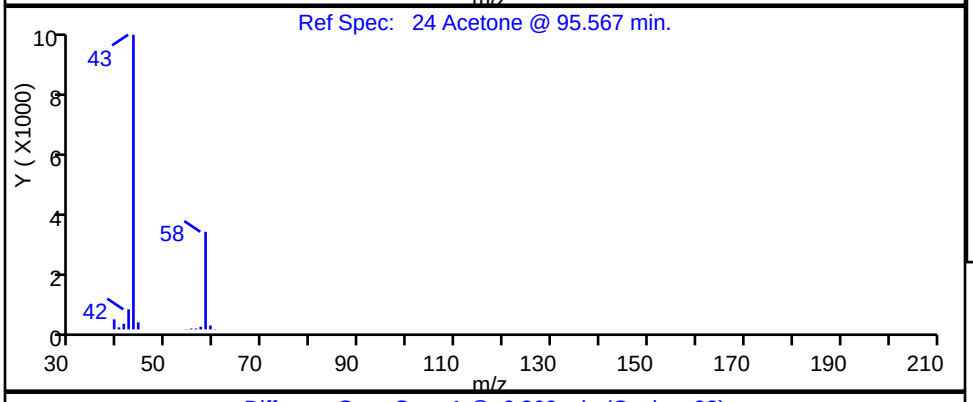
24 Acetone, CAS: 67-64-1

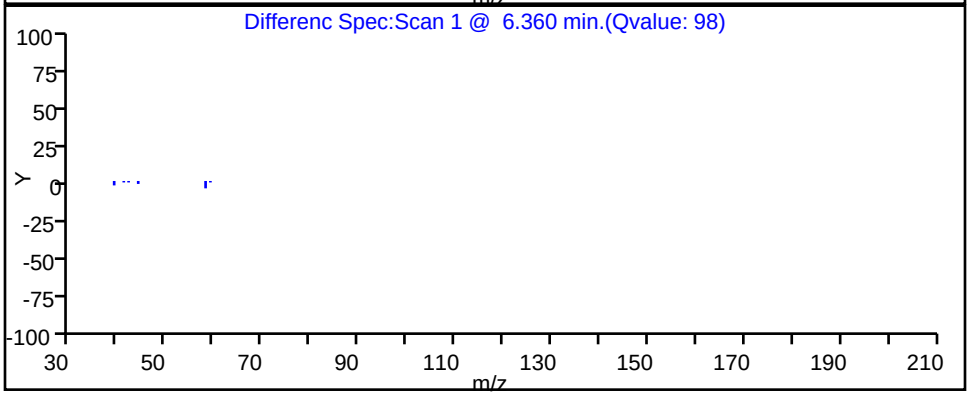












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-102539-29

Matrix: Water Lab File ID: P7865.D

Analysis Method: 8260C Date Collected: 06/30/2016 00:00

Sample wt/vol: 5(mL) Date Analyzed: 07/07/2016 02:06

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.: 309962 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.: 480-102539-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-102539-29

Matrix: Water | Lab File ID: P7865.D

Analysis Method: 8260C | Date Collected: 06/30/2016 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2016 02:06

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.: 309962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U *	2.5	1.3
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
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)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7865.D
Lims ID: 480-102539-A-29
Client ID: TRIP BLANK
Sample Type: Client
Inject. Date: 07-Jul-2016 02:06:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-29
Misc. Info.: 480-0054624-009
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 04:04:07 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 09:22:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.858	9.852	0.006	98	103000	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	205044	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	247761	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.049	-0.007	93	154074	26.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.486	9.493	-0.007	0	96278	26.2	
$ 5 Toluene-d8 (Surr)	98	11.835	11.835	0.000	94	485497	24.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	91	180006	24.1	
10 Dichlorodifluoromethane	85		4.018				ND	
11 Chloromethane	50		4.310				ND	
17 Vinyl chloride	62		4.541				ND	
12 Bromomethane	94		5.094				ND	
13 Chloroethane	64		5.222				ND	
14 Trichlorofluoromethane	101		5.630				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269				ND	
25 1,1-Dichloroethene	96		6.311				ND	
24 Acetone	43		6.354				ND	
27 Carbon disulfide	76		6.694				ND	
30 Methyl acetate	43		6.725				ND	
31 Methylene Chloride	84		6.932				ND	
32 Methyl tert-butyl ether	73		7.187				ND	
35 trans-1,2-Dichloroethene	96		7.260				ND	
40 1,1-Dichloroethane	63		7.777				ND	
44 2-Butanone (MEK)	43		8.428				ND	
43 cis-1,2-Dichloroethene	96		8.483				ND	
49 Chloroform	83		8.836				ND	
52 1,1,1-Trichloroethane	97		9.097				ND	
54 Cyclohexane	56		9.164				ND	
55 Carbon tetrachloride	117		9.304				ND	
57 Benzene	78		9.548				ND	
60 1,2-Dichloroethane	62		9.572				ND	
62 Trichloroethene	95		10.302				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.539				ND	
63 1,2-Dichloropropane	63		10.618				ND	
70 Dichlorobromomethane	83		10.941				ND	
73 cis-1,3-Dichloropropene	75		11.476				ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586				ND	
76 Toluene	92		11.920				ND	
78 trans-1,3-Dichloropropene	75		12.176				ND	
79 1,1,2-Trichloroethane	83		12.462				ND	
80 Tetrachloroethene	166		12.668				ND	
83 2-Hexanone	43		12.675				ND	
81 Chlorodibromomethane	129		13.046				ND	
85 Ethylene Dibromide	107		13.240				ND	
87 Chlorobenzene	112		13.837				ND	
89 Ethylbenzene	91		13.897				ND	
90 m-Xylene & p-Xylene	106		14.037				ND	
93 o-Xylene	106		14.591				ND	
94 Styrene	104		14.609				ND	
92 Bromoform	173		14.962				ND	
95 Isopropylbenzene	105		15.029				ND	
97 1,1,2,2-Tetrachloroethane	83		15.455				ND	
102 1,3,5-Trimethylbenzene	105		15.759				ND	
107 1,2,4-Trimethylbenzene	105		16.258				ND	
110 1,3-Dichlorobenzene	146		16.708				ND	
111 1,4-Dichlorobenzene	146		16.811				ND	
113 1,2,3-Trimethylbenzene	105		16.817				ND	
116 1,2-Dichlorobenzene	146		17.298				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.271				ND	
119 1,2,4-Trichlorobenzene	180		19.348				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00152	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

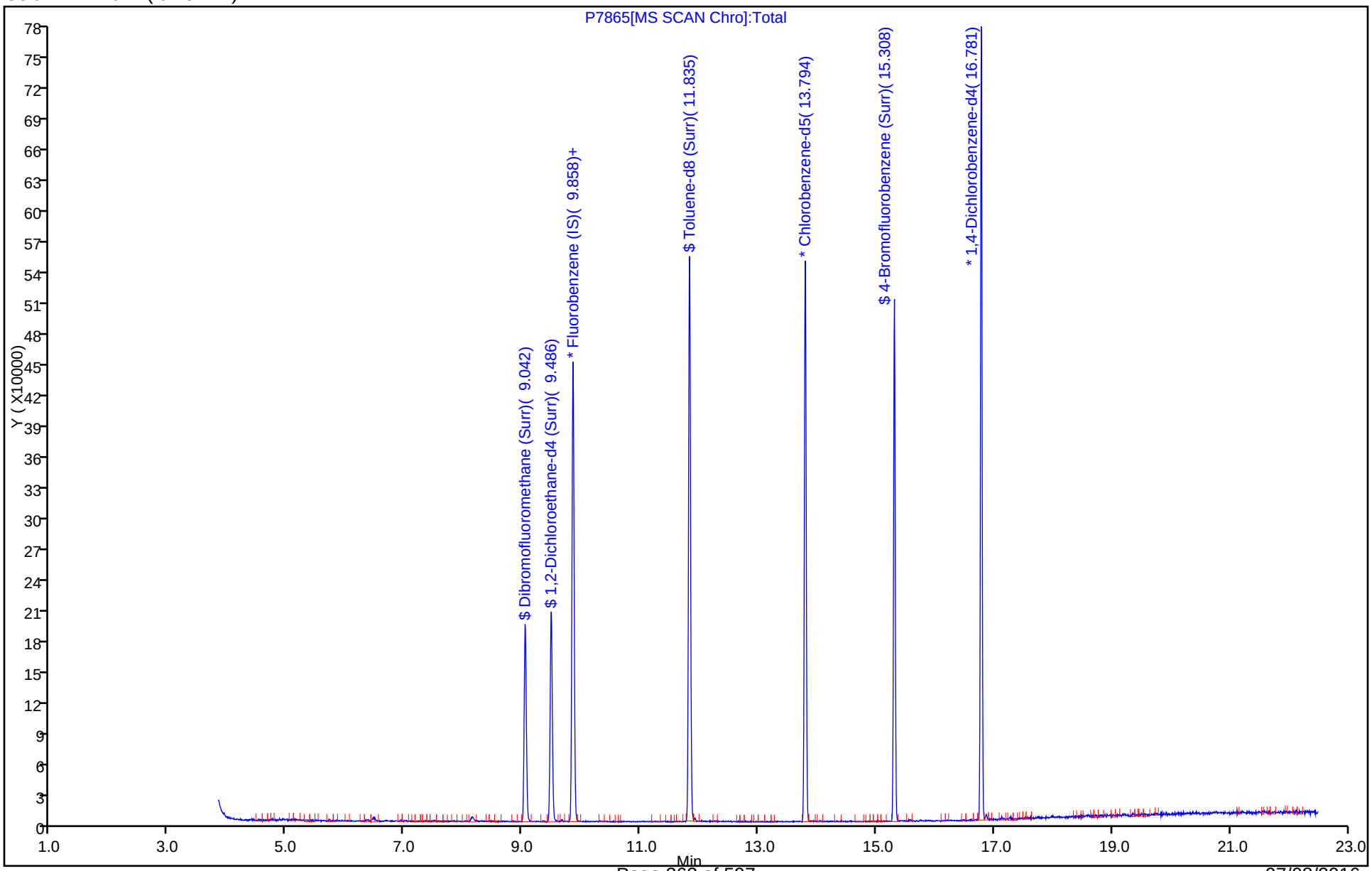
Report Date: 07-Jul-2016 09:22:06 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7865.D

Injection Date:	07-Jul-2016 02:06:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-29	Lab Sample ID:	480-102539-29	Worklist Smp#:	9
Client ID:	TRIP BLANK				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2016 22:45 Calibration End Date: 06/20/2016 01:29 Calibration ID: 27803

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-307413/4	P7351.D
Level 2	IC 480-307413/5	P7352.D
Level 3	IC 480-307413/6	P7353.D
Level 4	IC 480-307413/7	P7354.D
Level 5	ICIS 480-307413/8	P7355.D
Level 6	IC 480-307413/9	P7356.D
Level 7	IC 480-307413/10	P7357.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	2.4961 2.1323	2.3734 2.0561	2.3906	2.2692	2.0851	Ave		2.2576			0.1000	7.5		20.0			
Chloromethane	1.8970 1.5329	2.0736 1.5278	1.6417	1.6301	1.5335	Ave		1.6909			0.1000	12.6		20.0			
Vinyl chloride	1.6488 1.3201	1.6216 1.3255	1.4030	1.3474	1.2741	Ave		1.4201			0.1000	10.7		20.0			
Butadiene	1.3560 1.2262	1.3514 1.2124	1.2633	1.2457	1.2022	Ave		1.2653				5.0		20.0			
Bromomethane	1.0323 1.1332	1.0232 1.0674	0.9924	0.9765	1.0643	Ave		1.0413			0.1000	5.1		20.0			
Chloroethane	1.1695 1.0019	1.2317 1.0300	1.0810	1.0010	1.0638	Ave		1.0827			0.1000	8.1		20.0			
Dichlorofluoromethane	3.5758 2.9120	3.5431 2.9214	3.1366	2.9622	2.9840	Ave		3.1479				9.2		20.0			
Trichlorofluoromethane	3.3627 3.0814	3.6174 2.9734	3.2137	3.1243	3.0170	Ave		3.1986			0.1000	7.1		20.0			
Ethyl ether	+++++ 1.6705	1.9543 1.5835	1.7933	1.7622	1.7398	Ave		1.7506				7.1		20.0			
Acrolein	0.5225 0.5029	0.4724 0.4753	0.5163	0.5129	0.5182	Ave		0.5029				4.1		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0603 1.7297	2.0584 1.6168	1.9392	1.8934	1.7604	Ave		1.8655			0.1000	9.1		20.0			
1,1-Dichloroethene	+++++ 1.5441	1.8465 1.4578	1.7631	1.6786	1.6219	Ave		1.6520			0.1000	8.6		20.0			
Acetone	+++++ 0.7858	0.9633 0.7542	0.9051	0.8482	0.8890	Ave		0.8576			0.1000	9.1		20.0			
Iodomethane	3.3839 3.0039	3.3636 2.9309	3.2269	3.1806	3.1160	Ave		3.1723				5.4		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2016 22:45 Calibration End Date: 06/20/2016 01:29 Calibration ID: 27803

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	6.2893 4.9906	5.7153 4.6560	5.5615	5.3173	5.0370	Ave		5.3667			0.1000	10.1		20.0			
Methyl acetate	2.8557 2.1117	2.5054 1.9089	2.4519	2.3620	2.3041	Ave		2.3571			0.1000	12.8		20.0			
Allyl chloride	3.6055 2.7660	3.2674 2.5171	3.1178	3.0715	2.9878	Ave		3.0476				11.4		20.0			
Methylene Chloride	+++++ 1.6454	2.4575 1.5768	1.9524	1.8613	1.7223	Lin1	1.1484	1.6071			0.1000				0.9980		0.9900
2-Methyl-2-propanol	0.3830 0.3113	0.3353 0.3232	0.3658	0.3152	0.3594	Ave		0.3419				8.1		20.0			
Methyl tert-butyl ether	6.2257 5.4778	5.9489 5.2356	5.5885	5.8138	5.6148	Ave		5.7007			0.1000	5.7		20.0			
Acrylonitrile	1.3163 1.0139	1.2240 0.9043	1.2145	1.1471	1.1237	Ave		1.1348				12.2		20.0			
trans-1,2-Dichloroethene	1.9937 1.6135	1.9314 1.4752	1.8486	1.8215	1.6969	Ave		1.7687			0.1000	10.4		20.0			
Hexane	2.9235 2.4492	3.0176 2.3527	2.8948	2.6733	2.5641	Ave		2.6964				9.5		20.0			
Vinyl acetate	4.4262 4.5030	4.1151 4.1692	4.2353	4.5058	4.6536	Ave		4.3726				4.6		20.0			
1,1-Dichloroethane	3.4421 3.1253	3.7658 2.9834	3.5489	3.4833	3.3201	Ave		3.3813			0.2000	7.8		20.0			
2-Butanone (MEK)	1.5709 1.3448	1.4095 1.2835	1.4943	1.4134	1.4567	Ave		1.4247			0.1000	6.7		20.0			
cis-1,2-Dichloroethene	2.2125 1.8238	2.1279 1.7266	2.0213	2.0286	1.9134	Ave		1.9792			0.1000	8.6		20.0			
2,2-Dichloropropane	2.5732 2.4786	2.9331 2.3672	2.6317	2.6550	2.5641	Ave		2.6004				6.8		20.0			
Chlorobromomethane	1.1648 0.9641	1.0989 0.9172	1.0264	0.9963	0.9953	Ave		1.0233				8.2		20.0			
Tetrahydrofuran	1.3367 0.9030	1.0914 0.8446	1.0127	0.9993	0.9823	Lin1	0.5908	0.8821							0.9960		0.9900
Chloroform	3.4965 2.8872	3.3644 2.7668	3.2205	3.1613	3.0388	Ave		3.1336			0.2000	8.2		20.0			
1,1,1-Trichloroethane	3.0302 2.8244	3.3790 2.7494	2.8666	2.8357	2.8354	Ave		2.9315			0.1000	7.3		20.0			
Cyclohexane	3.4880 3.2720	3.4710 3.0737	3.5762	3.4843	3.3384	Ave		3.3862			0.1000	5.1		20.0			
Isobutyl alcohol	0.0680 0.1126	0.0814 0.1134	0.0688	0.1092	0.1276	Lin1	-0.903	0.1147							0.9940		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2016 22:45 Calibration End Date: 06/20/2016 01:29 Calibration ID: 27803

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	2.5601 2.2232	2.5755 2.0884	2.4476	2.3423	2.3000	Ave		2.3625				7.5		20.0			
Carbon tetrachloride	2.5050 2.5769	2.5405 2.4666	2.6060	2.5796	2.5739	Ave		2.5498			0.1000	1.9		20.0			
Benzene	8.1323 6.1889	7.1773 5.9078	7.0402	6.6066	6.4705	Ave		6.7891			0.5000	10.9		20.0			
1,2-Dichloroethane	+++++ 2.7689	3.5974 2.6507	3.0434	2.9917	2.9268	Ave		2.9965			0.1000	11.0		20.0			
n-Heptane	+++++ 2.3066	3.4542 2.1368	2.6338	2.5199	2.3791	Lin1	1.6189	2.2021							0.9980		0.9900
Trichloroethene	+++++ 1.7996	2.0492 1.7450	1.8811	1.8284	1.8133	Ave		1.8528			0.2000	5.7		20.0			
Methylcyclohexane	2.8846 2.7320	2.8276 2.6222	2.9432	2.8182	2.7508	Ave		2.7970			0.1000	3.8		20.0			
1,2-Dichloropropane	+++++ 1.7076	1.7973 1.6331	1.8666	1.7943	1.7509	Ave		1.7583			0.1000	4.6		20.0			
1,4-Dioxane	+++++ 0.0089	0.0088 0.0082	0.0108	0.0094	0.0107	Ave		0.0094				11.3		20.0			
Dibromomethane	1.3779 1.2531	1.3702 1.2051	1.2601	1.2859	1.2644	Ave		1.2881			0.1000	4.9		20.0			
Bromodichloromethane	2.0761 2.2225	2.1866 2.2216	2.0938	2.0930	2.1974	Ave		2.1558			0.2000	3.0		20.0			
2-Chloroethyl vinyl ether	+++++ 1.3286	1.0152 1.3413	1.2543	1.2663	1.3490	Ave		1.2591				10.0		20.0			
cis-1,3-Dichloropropene	2.4326 2.7061	2.4456 2.6880	2.5911	2.6322	2.7064	Ave		2.6003			0.2000	4.5		20.0			
4-Methyl-2-pentanone (MIBK)	1.4054 1.2902	1.4094 1.1130	1.4392	1.4567	1.4559	Ave		1.3671			0.1000	9.2		20.0			
Toluene	3.2617 1.9984	2.7051 1.9054	2.2084	2.1395	2.1230	Lin1	0.7835	1.9573			0.4000				0.9980		0.9900
Ethyl methacrylate	0.8692 1.1570	0.8547 1.1161	0.9816	1.0499	1.1724	Ave		1.0287				12.7		20.0			
trans-1,3-Dichloropropene	1.1772 1.2388	1.1656 1.2006	1.2184	1.2123	1.3080	Ave		1.2173			0.1000	3.9		20.0			
1,1,2-Trichloroethane	0.7172 0.6233	0.7488 0.6078	0.6752	0.6358	0.6514	Ave		0.6657			0.1000	7.7		20.0			
Tetrachloroethene	1.1930 0.9074	1.0865 0.8531	1.0403	1.0058	0.9836	Ave		1.0100			0.2000	11.2		20.0			
2-Hexanone	0.9835 0.8933	0.9715 0.7514	1.0236	1.0285	1.0318	Ave		0.9548			0.1000	10.7		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2016 22:45 Calibration End Date: 06/20/2016 01:29 Calibration ID: 27803

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Dichloropropane	1.4487 1.2049	1.4375 1.0988	1.4141	1.3824	1.3330	Ave		1.3313				9.9		20.0			
Dibromochloromethane	0.8108 0.9207	0.7390 0.9311	0.7555	0.8228	0.9054	Ave		0.8407			0.1000	9.4		20.0			
1,2-Dibromoethane	0.8800 0.8485	0.8437 0.8373	0.8069	0.8504	0.8904	Ave		0.8510				3.2		20.0			
Chlorobenzene	3.0533 2.3898	2.9217 2.2793	2.6263	2.5372	2.5361	Ave		2.6205			0.5000	10.6		20.0			
Ethylbenzene	4.2888 3.7616	4.4197 3.4817	4.0532	4.0343	4.0093	Ave		4.0070			0.1000	7.8		20.0			
1,1,1,2-Tetrachloroethane	0.8574 0.8817	0.8358 0.8359	0.8597	0.8822	0.9072	Ave		0.8657				3.0		20.0			
m,p-Xylene	1.5939 1.4526	1.4285 1.3783	1.4939	1.5251	1.5361	Ave		1.4869			0.1000	4.9		20.0			
o-Xylene	1.4711 1.4832	1.5685 1.3691	1.5217	1.5674	1.5766	Ave		1.5082			0.3000	4.9		20.0			
Styrene	2.1120 2.3080	2.1260 2.1842	2.2112	2.3546	2.4518	Ave		2.2497			0.3000	5.6		20.0			
Bromoform	0.6412 0.7485	0.5981 0.7725	0.5506	0.6241	0.7108	Ave		0.6637			0.1000	12.4		20.0			
Isopropylbenzene	3.2830 3.2709	3.2504 2.9139	3.3079	3.2926	3.3469	Ave		3.2380			0.1000	4.5		20.0			
1,1,2,2-Tetrachloroethane	1.1674 1.0383	1.0864 0.9505	1.0487	1.0363	1.0693	Ave		1.0567			0.3000	6.2		20.0			
trans-1,4-Dichloro-2-butene	0.4094 0.4430	0.3879 0.3963	0.4225	0.4368	0.4481	Ave		0.4206				5.6		20.0			
1,2,3-Trichloropropane	0.3182 0.3085	0.2937 0.2691	0.3294	0.3355	0.3391	Ave		0.3134				8.0		20.0			
Bromobenzene	1.0451 0.9564	0.9834 0.8449	1.0353	1.0124	0.9977	Ave		0.9822				6.9		20.0			
N-Propylbenzene	4.2514 3.8516	4.0799 3.3693	4.1877	4.2349	4.0860	Ave		4.0087				7.8		20.0			
2-Chlorotoluene	0.9403 0.7820	0.8629 0.7366	0.8457	0.8649	0.8402	Ave		0.8390				7.7		20.0			
1,3,5-Trimethylbenzene	2.5875 2.7517	2.7513 2.5839	2.8680	2.8400	2.8655	Ave		2.7497				4.4		20.0			
4-Chlorotoluene	0.9356 0.8349	0.8995 0.8112	0.8550	0.8500	0.8791	Ave		0.8665				4.8		20.0			
tert-Butylbenzene	0.6472 0.6614	0.5816 0.6194	0.6441	0.6438	0.6546	Ave		0.6360				4.3		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2016 22:45 Calibration End Date: 06/20/2016 01:29 Calibration ID: 27803

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	2.6167 2.9289	2.7346 2.7863	2.9308	3.0239	3.0406	Ave		2.8660				5.5		20.0			
sec-Butylbenzene	3.5163 3.5876	3.2674 3.3625	3.6330	3.5914	3.6684	Ave		3.5181				4.2		20.0			
4-Isopropyltoluene	2.9188 3.2386	2.8937 3.0874	3.2054	3.2570	3.3243	Ave		3.1322				5.4		20.0			
1,3-Dichlorobenzene	1.9352 1.7328	1.9579 1.6762	1.8588	1.8178	1.7853	Ave		1.8234			0.6000	5.6		20.0			
1,4-Dichlorobenzene	2.1035 1.7196	1.9274 1.6947	1.8514	1.8249	1.8087	Ave		1.8472			0.5000	7.5		20.0			
n-Butylbenzene	2.8493 2.9049	2.9361 2.7043	2.8535	2.8569	2.9641	Ave		2.8670				2.9		20.0			
1,2-Dichlorobenzene	2.0414 1.7795	1.9497 1.7197	1.8413	1.8434	1.8400	Ave		1.8593			0.4000	5.7		20.0			
1,2-Dibromo-3-Chloropropane	0.2702 0.2803	0.2754 0.2785	0.2397	0.2394	0.2829	Ave		0.2666			0.0500	7.1		20.0			
1,2,4-Trichlorobenzene	1.7053 1.5514	1.5253 1.4955	1.4585	1.5070	1.5547	Ave		1.5425			0.2000	5.1		20.0			
Hexachlorobutadiene	0.8036 0.7149	0.7106 0.6890	0.6793	0.6878	0.6994	Ave		0.7121				5.9		20.0			
Naphthalene	3.9515 4.3101	3.8353 4.0973	4.0312	4.1453	4.4052	Ave		4.1108				4.8		20.0			
1,2,3-Trichlorobenzene	1.6300 1.5107	1.4998 1.4696	1.4109	1.4484	1.5228	Ave		1.4989				4.6		20.0			
Dibromofluoromethane (Surr)	1.4192 1.4276	1.4338 1.4275	1.4684	1.4331	1.4189	Ave		1.4326				1.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.9086 0.8777	0.9004 0.8780	0.9030	0.8789	0.8910	Ave		0.8911				1.5		20.0			
Toluene-d8 (Surr)	2.4061 2.3761	2.4310 2.3661	2.3803	2.3868	2.4090	Ave		2.3936				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.8937 0.9220	0.9022 0.9195	0.9062	0.8993	0.9228	Ave		0.9094				1.3		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2016 22:45 Calibration End Date: 06/20/2016 01:29 Calibration ID: 27803

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-307413/4	P7351.D
Level 2	IC 480-307413/5	P7352.D
Level 3	IC 480-307413/6	P7353.D
Level 4	IC 480-307413/7	P7354.D
Level 5	ICIS 480-307413/8	P7355.D
Level 6	IC 480-307413/9	P7356.D
Level 7	IC 480-307413/10	P7357.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	6478 585351	12333 1146832	62027	120427	283829	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloromethane	FB	Ave	4923 420805	10775 852155	42595	86509	208739	0.500 50.0	1.00 100	5.00	10.0	25.0
Vinyl chloride	FB	Ave	4279 362375	8426 739336	36403	71508	173439	0.500 50.0	1.00 100	5.00	10.0	25.0
Butadiene	FB	Ave	3519 336597	7022 676225	32779	66110	163642	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromomethane	FB	Ave	2679 311087	5317 595346	25749	51825	144869	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloroethane	FB	Ave	3035 275024	6400 574510	28048	53121	144813	0.500 50.0	1.00 100	5.00	10.0	25.0
Dichlorofluoromethane	FB	Ave	9280 799370	18411 1629448	81382	157203	406194	0.500 50.0	1.00 100	5.00	10.0	25.0
Trichlorofluoromethane	FB	Ave	8727 845877	18797 1658456	83383	165808	410675	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl ether	FB	Ave	+++++ 458566	10155 883242	46529	93519	236822	+++++ 50.0	1.00 100	5.00	10.0	25.0
Acrolein	FB	Ave	6780 690284	12274 1325468	66983	136101	352724	2.50 250	5.00 500	25.0	50.0	125
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	5347 474836	10696 901788	50314	100482	239624	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethene	FB	Ave	+++++ 423862	9595 813103	45745	89085	220771	+++++ 50.0	1.00 100	5.00	10.0	25.0
Acetone	FB	Ave	+++++ 1078504	25027 2103269	117423	225068	605076	+++++ 250	5.00 500	25.0	50.0	125
Iodomethane	FB	Ave	8782 824600	17478 1634763	83726	168793	424157	0.500 50.0	1.00 100	5.00	10.0	25.0
Carbon disulfide	FB	Ave	16322 1369973	29698 2596979	144299	282188	685653	0.500 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2016 22:45 Calibration End Date: 06/20/2016 01:29 Calibration ID: 27803

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
Methyl acetate	FB	Ave	37055 2898469	65093 5323606	318093	626755	1568216	2.50 250	5.00 500	25.0	50.0	125
Allyl chloride	FB	Ave	9357 759301	16978 1403983	80894	163006	406711	0.500 50.0	1.00 100	5.00	10.0	25.0
Methylene Chloride	FB	Lin1	+++++ 451675	12770 879489	50657	98777	234442	+++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methyl-2-propanol	FB	Ave	9939 854451	17421 1802532	94899	167264	489202	5.00 500	10.0 1000	50.0	100	250
Methyl tert-butyl ether	FB	Ave	16157 1503715	30912 2920225	145001	308539	764295	0.500 50.0	1.00 100	5.00	10.0	25.0
Acrylonitrile	FB	Ave	34160 2783394	63602 5044072	315112	608775	1529577	5.00 500	10.0 1000	50.0	100	250
trans-1,2-Dichloroethene	FB	Ave	5174 442918	10036 822847	47964	96667	230992	0.500 50.0	1.00 100	5.00	10.0	25.0
Hexane	FB	Ave	7587 672325	15680 1312246	75108	141873	349025	0.500 50.0	1.00 100	5.00	10.0	25.0
Vinyl acetate	FB	Ave	22974 2472258	42766 4650902	219782	478250	1266921	1.00 100	2.00 200	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	8933 857930	19568 1664022	92081	184857	451935	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Butanone (MEK)	FB	Ave	20384 1845878	36620 3579492	193857	375058	991469	2.50 250	5.00 500	25.0	50.0	125
cis-1,2-Dichloroethene	FB	Ave	5742 500642	11057 963069	52446	107659	260459	0.500 50.0	1.00 100	5.00	10.0	25.0
2,2-Dichloropropane	FB	Ave	6678 680416	15241 1320358	68282	140903	349034	0.500 50.0	1.00 100	5.00	10.0	25.0
Chlorobromomethane	FB	Ave	3023 264669	5710 511560	26630	52871	135476	0.500 50.0	1.00 100	5.00	10.0	25.0
Tetrahydrofuran	FB	Lin1	6938 495765	11342 942194	52551	106062	267416	1.00 100	2.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	9074 792581	17482 1543221	83560	167771	413644	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,1-Trichloroethane	FB	Ave	7864 775331	17558 1533519	74378	150488	385956	0.500 50.0	1.00 100	5.00	10.0	25.0
Cyclohexane	FB	Ave	9052 898201	18036 1714433	92788	184913	454433	0.500 50.0	1.00 100	5.00	10.0	25.0
Isobutyl alcohol	FB	Lin1	4414 772962	10578 1580980	44657	144818	434157	12.5 1250	25.0 2500	125	250	625
1,1-Dichloropropene	FB	Ave	6644 610303	13383 1164839	63507	124304	313082	0.500 50.0	1.00 100	5.00	10.0	25.0
Carbon tetrachloride	FB	Ave	6501 707383	13201 1375788	67617	136901	350368	0.500 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2016 22:45 Calibration End Date: 06/20/2016 01:29 Calibration ID: 27803

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	21105 1698931	37295 3295203	182666	350610	880781	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloroethane	FB	Ave	+++++ 760083	18693 1478484	78964	158771	398403	+++++ 50.0	1.00 100	5.00	10.0	25.0
n-Heptane	FB	Lin1	+++++ 633199	17949 1191829	68336	133730	323847	+++++ 50.0	1.00 100	5.00	10.0	25.0
Trichloroethene	FB	Ave	+++++ 494002	10648 973297	48808	97034	246825	+++++ 50.0	1.00 100	5.00	10.0	25.0
Methylcyclohexane	FB	Ave	7486 749974	14693 1462585	76365	149564	374446	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloropropane	FB	Ave	+++++ 468753	9339 910911	48431	95222	238338	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,4-Dioxane	CBZ	Ave	+++++ 101015	1825 189057	11628	20389	58687	+++++ 1000	20.0 2000	100	200	500
Dibromomethane	FB	Ave	3576 343986	7120 672184	32696	68243	172113	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromodichloromethane	FB	Ave	5388 610106	11362 1239111	54326	111073	299114	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 364723	5275 748143	32544	67203	183626	+++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	6313 742863	12708 1499306	67230	139693	368401	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	36484 3651839	73106 6454551	388083	792659	2002085	2.50 250	5.00 500	25.0	50.0	125
Toluene	CBZ	Lin1	16935 1131242	28063 2209900	119100	232833	583888	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl methacrylate	CBZ	Ave	4513 654943	8867 1294508	52937	114258	322437	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,3-Dichloropropene	CBZ	Ave	6112 701257	12092 1392436	65711	131929	359722	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloroethane	CBZ	Ave	3724 352844	7768 704942	36416	69197	179143	0.500 50.0	1.00 100	5.00	10.0	25.0
Tetrachloroethene	CBZ	Ave	6194 513683	11272 989430	56104	109454	270511	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Hexanone	CBZ	Ave	25533 2528270	50391 4357381	276010	559640	1418850	2.50 250	5.00 500	25.0	50.0	125
1,3-Dichloropropane	CBZ	Ave	7522 682080	14913 1274373	76266	150437	366596	0.500 50.0	1.00 100	5.00	10.0	25.0
Dibromochloromethane	CBZ	Ave	4210 521170	7666 1079880	40745	89540	249016	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromoethane	CBZ	Ave	4569 480320	8753 971124	43516	92544	244873	0.500 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2016 22:45 Calibration End Date: 06/20/2016 01:29 Calibration ID: 27803

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	15853 1352795	30310 2643557	141638	276111	697484	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethylbenzene	CBZ	Ave	22268 2129394	45851 4038139	218595	439035	1102673	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	4452 499085	8671 969460	46363	96012	249516	0.500 50.0	1.00 100	5.00	10.0	25.0
m,p-Xylene	CBZ	Ave	8276 822285	14819 1598645	80569	165969	422465	0.500 50.0	1.00 100	5.00	10.0	25.0
o-Xylene	CBZ	Ave	7638 839633	16272 1587893	82068	170570	433600	0.500 50.0	1.00 100	5.00	10.0	25.0
Styrene	CBZ	Ave	10966 1306540	22055 2533301	119250	256244	674304	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromoform	CBZ	Ave	3329 423727	6205 895965	29696	67917	195476	0.500 50.0	1.00 100	5.00	10.0	25.0
Isopropylbenzene	DCB	Ave	20170 2158899	40650 4200886	210097	426761	1099811	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,2,2-Tetrachloroethane	DCB	Ave	7172 685335	13587 1370311	66609	134324	351392	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,4-Dichloro-2-butene	DCB	Ave	2515 292365	4851 571362	26837	56610	147256	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichloropropane	DCB	Ave	1955 203625	3673 387935	20922	43483	111434	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromobenzene	DCB	Ave	6421 631254	12298 1218097	65753	131218	327855	0.500 50.0	1.00 100	5.00	10.0	25.0
N-Propylbenzene	DCB	Ave	26119 2542190	51023 4857346	265977	548899	1342686	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chlorotoluene	DCB	Ave	5777 516144	10791 1061977	53716	112108	276100	0.500 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trimethylbenzene	DCB	Ave	15897 1816252	34408 3725093	182158	368104	941612	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Chlorotoluene	DCB	Ave	5748 551048	11249 1169479	54301	110171	288880	0.500 50.0	1.00 100	5.00	10.0	25.0
tert-Butylbenzene	DCB	Ave	3976 436564	7273 892929	40908	83446	215117	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trimethylbenzene	DCB	Ave	16076 1933159	34199 4016919	186144	391932	999159	0.500 50.0	1.00 100	5.00	10.0	25.0
sec-Butylbenzene	DCB	Ave	21603 2367963	40862 4847632	230744	465496	1205453	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Isopropyltoluene	DCB	Ave	17932 2137617	36189 4450928	203589	422144	1092388	0.500 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichlorobenzene	DCB	Ave	11889 1143706	24485 2416517	118061	235610	586672	0.500 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2016 22:45 Calibration End Date: 06/20/2016 01:29 Calibration ID: 27803

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	12923 1134978	24104 2443250	117590	236524	594339	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Butylbenzene	DCB	Ave	17505 1917336	36719 3898619	181234	370290	974031	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichlorobenzene	DCB	Ave	12542 1174560	24383 2479162	116945	238932	604627	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	1660 184981	3444 401487	15224	31034	92979	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trichlorobenzene	DCB	Ave	10477 1023973	19075 2155994	92636	195328	510877	0.500 50.0	1.00 100	5.00	10.0	25.0
Hexachlorobutadiene	DCB	Ave	4937 471876	8887 993241	43145	89153	229814	0.500 50.0	1.00 100	5.00	10.0	25.0
Naphthalene	DCB	Ave	24277 2844829	47964 5906942	256036	537279	1447573	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichlorobenzene	DCB	Ave	10014 997102	18756 2118683	89608	187734	500417	0.500 50.0	1.00 100	5.00	10.0	25.0
Dibromofluoromethane (Surr)	FB	Ave	184152 195941	186254 199049	190497	190140	193147	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	117902 120476	116967 122427	117145	116604	121281	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBZ	Ave	624634 672521	630490 686061	641868	649378	662537	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	232016 260970	233986 266617	244361	244660	253803	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

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7351.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 19-Jun-2016 22:45:30 ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0054167-004
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:25 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:01:46

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	9.846	9.852	-0.006	98	129760	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	259607	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	307184	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	93	184152	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.487	-0.006	0	117902	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	11.829	11.835	-0.006	93	624634	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	15.303	15.309	-0.006	93	232016	25.0	24.6	
10 Dichlorodifluoromethane	85	3.999	4.005	-0.006	28	6478	0.5000	0.5528	
11 Chloromethane	50	4.303	4.322	-0.019	80	4923	0.5000	0.5609	
17 Vinyl chloride	62	4.522	4.541	-0.019	53	4279	0.5000	0.5805	
144 Butadiene	54	4.547	4.565	-0.018	85	3519	0.5000	0.5358	
12 Bromomethane	94	5.070	5.100	-0.030	37	2679	0.5000	0.4957	
13 Chloroethane	64	5.216	5.228	-0.012	45	3035	0.5000	0.5401	
19 Dichlorofluoromethane	67	5.508	5.514	-0.006	95	9280	0.5000	0.5680	
14 Trichlorofluoromethane	101	5.617	5.636	-0.019	13	8727	0.5000	0.5257	
20 Ethyl ether	59	5.934	5.928	0.006	93	5685	0.5000	0.6257	
22 Acrolein	56	6.189	6.183	0.006	69	6780	2.50	2.60	
16 1,1,2-Trichloro-1,2,2-trif	101	6.268	6.269	-0.001	73	5347	0.5000	0.5522	
25 1,1-Dichloroethene	96	6.299	6.317	-0.018	95	5173	0.5000	0.6033	
24 Acetone	43	6.360	6.360	0.000	83	14162	2.50	3.18	
18 Iodomethane	142	6.579	6.585	-0.006	98	8782	0.5000	0.5334	
27 Carbon disulfide	76	6.694	6.700	-0.006	98	16322	0.5000	0.5860	
30 Methyl acetate	43	6.731	6.737	-0.006	99	37055	2.50	3.03	
28 3-Chloro-1-propene	41	6.761	6.767	-0.006	79	9357	0.5000	0.5915	
31 Methylene Chloride	84	6.938	6.938	0.000	96	7208	0.5000	0.1495	
33 2-Methyl-2-propanol	59	6.980	6.968	0.012	91	9939	5.00	5.60	
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	67	16157	0.5000	0.5460	
34 Acrylonitrile	53	7.236	7.236	0.000	100	34160	5.00	5.80	
35 trans-1,2-Dichloroethene	96	7.254	7.260	-0.006	92	5174	0.5000	0.5636	
36 Hexane	57	7.491	7.497	-0.006	91	7587	0.5000	0.5421	

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	7.735	7.735	0.000	98	22974	1.00	1.01	
40 1,1-Dichloroethane	63	7.777	7.789	-0.012	90	8933	0.5000	0.5090	
44 2-Butanone (MEK)	43	8.440	8.434	0.006	80	20384	2.50	2.76	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	81	5742	0.5000	0.5590	
45 2,2-Dichloropropane	77	8.483	8.489	-0.006	65	6678	0.5000	0.4948	
50 Chlorobromomethane	128	8.805	8.805	0.000	95	3023	0.5000	0.5692	
51 Tetrahydrofuran	42	8.836	8.830	0.006	70	6938	1.00	0.8457	
49 Chloroform	83	8.842	8.836	0.006	93	9074	0.5000	0.5579	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	40	7864	0.5000	0.5168	
54 Cyclohexane	56	9.170	9.170	0.000	87	9052	0.5000	0.5150	
53 Isobutyl alcohol	43	9.255	9.249	0.006	39	4414	12.5	15.3	
56 1,1-Dichloropropene	75	9.274	9.274	0.000	92	6644	0.5000	0.5418	
55 Carbon tetrachloride	117	9.298	9.304	-0.006	89	6501	0.5000	0.4912	
57 Benzene	78	9.554	9.554	0.000	93	21105	0.5000	0.5989	
60 1,2-Dichloroethane	62	9.572	9.578	-0.006	95	9678	0.5000	0.6223	
59 n-Heptane	43	9.669	9.675	-0.006	90	9792	0.5000	0.1215	
62 Trichloroethene	95	10.308	10.302	0.006	95	6027	0.5000	0.6267	
64 Methylcyclohexane	83	10.545	10.545	0.000	93	7486	0.5000	0.5157	
63 1,2-Dichloropropane	63	10.612	10.618	-0.006	90	4676	0.5000	0.5124	
68 1,4-Dioxane	88		10.734				ND	ND	
69 Dibromomethane	93	10.801	10.807	-0.006	94	3576	0.5000	0.5349	
70 Dichlorobromomethane	83	10.935	10.941	-0.006	81	5388	0.5000	0.4815	
71 2-Chloroethyl vinyl ether	63	11.208	11.202	0.006	84	2225	0.5000	0.3405	
73 cis-1,3-Dichloropropene	75	11.476	11.482	-0.006	84	6313	0.5000	0.4677	
75 4-Methyl-2-pentanone (MIBK	43	11.585	11.586	-0.001	98	36484	2.50	2.57	
76 Toluene	92	11.926	11.920	0.006	97	16935	0.5000	0.4329	
77 Ethyl methacrylate	69	12.151	12.151	0.000	39	4513	0.5000	0.4225	
78 trans-1,3-Dichloropropene	75	12.182	12.182	0.000	95	6112	0.5000	0.4835	
79 1,1,2-Trichloroethane	83	12.468	12.462	0.006	89	3724	0.5000	0.5387	
80 Tetrachloroethene	166	12.674	12.668	0.006	66	6194	0.5000	0.5906	
83 2-Hexanone	43	12.674	12.675	-0.001	97	25533	2.50	2.58	
82 1,3-Dichloropropane	76	12.699	12.705	-0.006	65	7522	0.5000	0.5441	
81 Chlorodibromomethane	129	13.046	13.046	0.000	87	4210	0.5000	0.4822	
85 Ethylene Dibromide	107	13.246	13.246	0.000	97	4569	0.5000	0.5170	
87 Chlorobenzene	112	13.830	13.836	-0.006	94	15853	0.5000	0.5826	
89 Ethylbenzene	91	13.903	13.897	0.006	98	22268	0.5000	0.5352	
88 1,1,1,2-Tetrachloroethane	131	13.915	13.916	-0.001	50	4452	0.5000	0.4952	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	8276	0.5000	0.5360	
93 o-Xylene	106	14.585	14.591	-0.006	98	7638	0.5000	0.4877	
94 Styrene	104	14.609	14.609	0.000	92	10966	0.5000	0.4694	
92 Bromoform	173	14.962	14.962	0.000	94	3329	0.5000	0.4830	
95 Isopropylbenzene	105	15.035	15.029	0.006	96	20170	0.5000	0.5070	
97 1,1,2,2-Tetrachloroethane	83	15.455	15.455	0.000	93	7172	0.5000	0.5524	
98 trans-1,4-Dichloro-2-buten	53	15.515	15.509	0.006	56	2515	0.5000	0.4867	
101 1,2,3-Trichloropropane	110	15.546	15.546	0.000	66	1955	0.5000	0.5077	
100 Bromobenzene	156	15.558	15.552	0.006	91	6421	0.5000	0.5321	
99 N-Propylbenzene	91	15.564	15.564	0.000	98	26119	0.5000	0.5303	
103 2-Chlorotoluene	126	15.753	15.753	0.000	94	5777	0.5000	0.5604	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	86	15897	0.5000	0.4705	
105 4-Chlorotoluene	126	15.874	15.881	-0.007	98	5748	0.5000	0.5399	
106 tert-Butylbenzene	134	16.191	16.197	-0.006	91	3976	0.5000	0.5088	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	16076	0.5000	0.4565	

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	16.465	16.465	-0.001	94	21603	0.5000	0.4997	
112 4-Isopropyltoluene	119	16.623	16.617	0.006	96	17932	0.5000	0.4659	
110 1,3-Dichlorobenzene	146	16.702	16.708	-0.006	96	11889	0.5000	0.5306	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	92	12923	0.5000	0.5694	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	17505	0.5000	0.4969	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	95	12542	0.5000	0.5490	
117 1,2-Dibromo-3-Chloropropan	75	18.277	18.271	0.006	1	1660	0.5000	0.5067	M
119 1,2,4-Trichlorobenzene	180	19.354	19.354	0.000	93	10477	0.5000	0.5528	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	90	4937	0.5000	0.5643	
121 Naphthalene	128	19.750	19.750	0.000	97	24277	0.5000	0.4806	
122 1,2,3-Trichlorobenzene	180	20.102	20.109	-0.007	93	10014	0.5000	0.5437	
S 123 1,2-Dichloroethene, Total	1				0			1.12	
S 124 1,3-Dichloropropene, Total	1				0			0.9513	
S 125 Total BTEX	1				0			2.59	
S 126 Xylenes, Total	1				0			1.02	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00076	Amount Added:	0.50	Units: uL	
GAS CORP mix_00161	Amount Added:	0.50	Units: uL	
P 8260 IS_00149	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00184	Amount Added:	1.25	Units: uL	Run Reagent

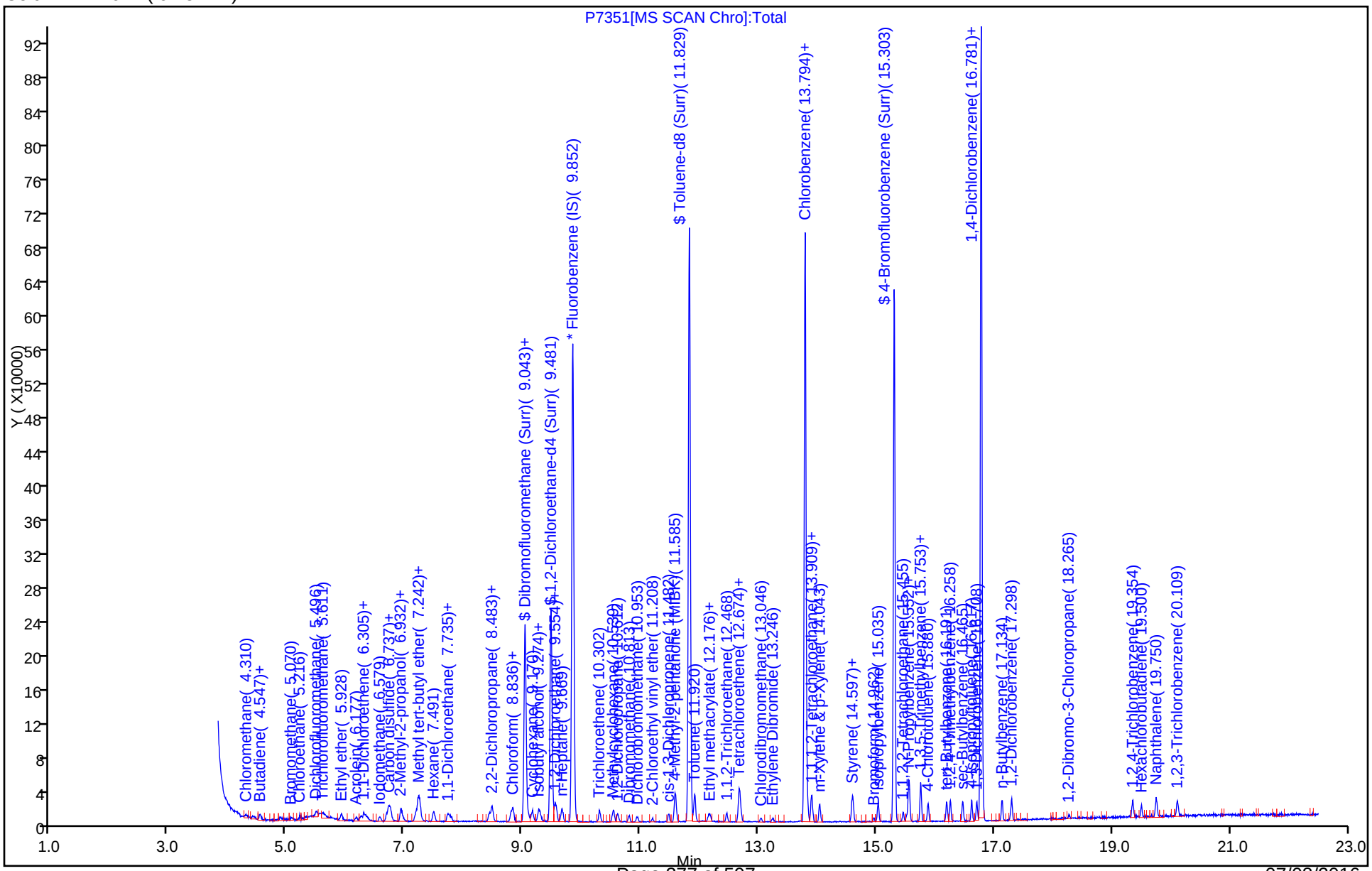
Report Date: 20-Jun-2016 12:36:26 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7351.D

Injection Date:	19-Jun-2016 22:45:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

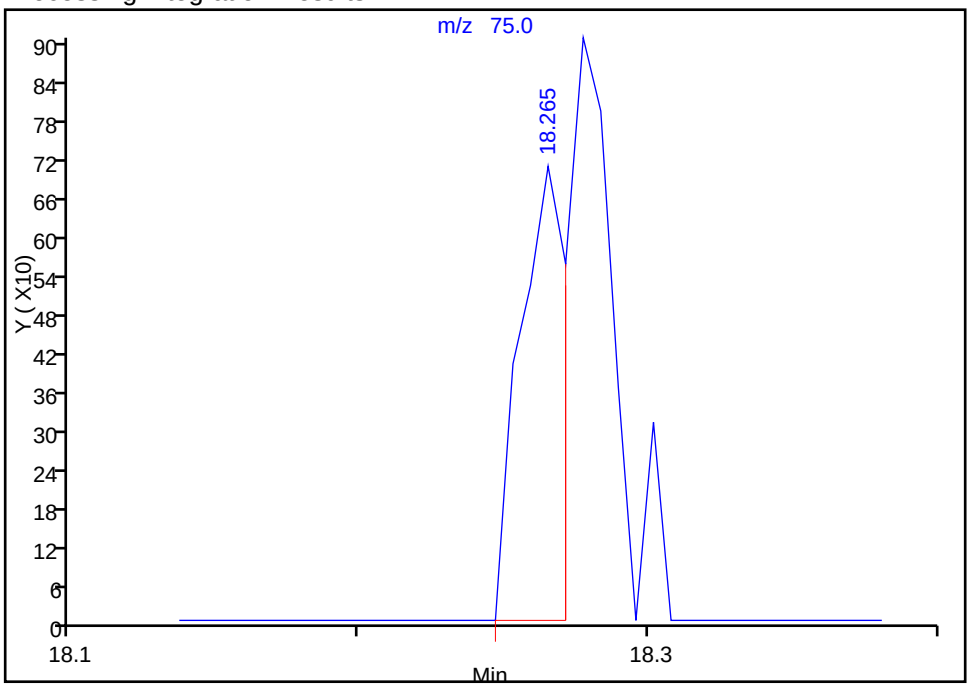
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7351.D
Injection Date: 19-Jun-2016 22:45:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: NMD ALS Bottle#: 6 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

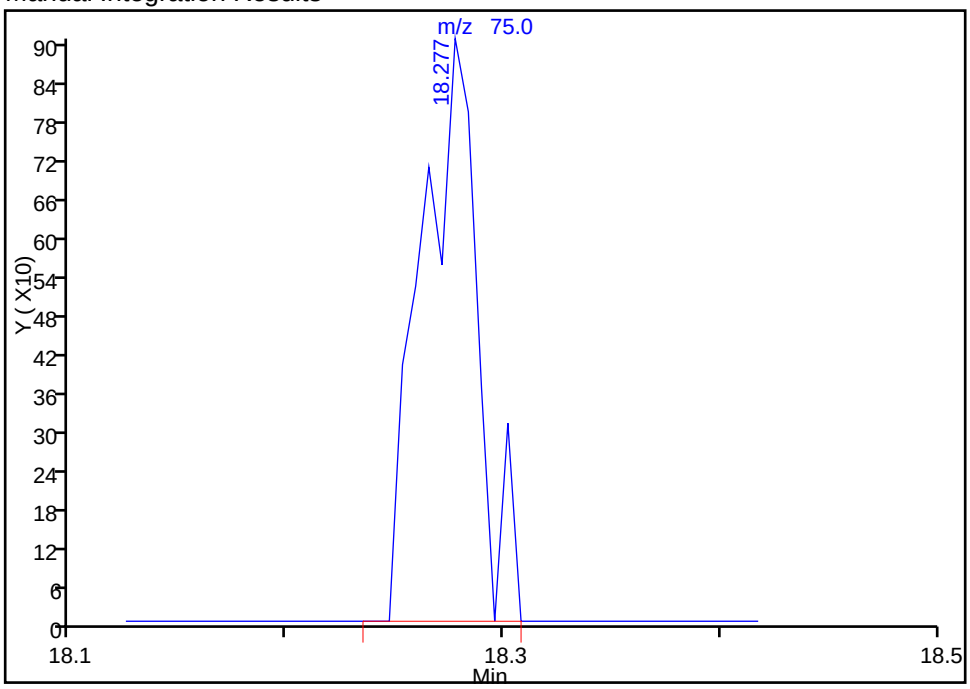
Processing Integration Results

RT: 18.27
Area: 796
Amount: 0.493778
Amount Units: ug/L



Manual Integration Results

RT: 18.28
Area: 1660
Amount: 0.506687
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:01:46
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7352.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Jun-2016 23:13:30 ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0054167-005
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:28 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:03:48

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	9.852	9.852	0.000	98	129906	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	259354	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	312651	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	93	186254	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.487	-0.006	0	116967	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	11.829	11.835	-0.006	93	630490	25.0	25.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	96	233986	25.0	24.8	
10 Dichlorodifluoromethane	85	4.011	4.005	0.006	40	12333	1.00	1.05	
11 Chloromethane	50	4.310	4.322	-0.012	97	10775	1.00	1.23	
17 Vinyl chloride	62	4.516	4.541	-0.025	68	8426	1.00	1.14	
144 Butadiene	54	4.559	4.565	-0.006	94	7022	1.00	1.07	
12 Bromomethane	94	5.082	5.100	-0.018	93	5317	1.00	0.9826	
13 Chloroethane	64	5.216	5.228	-0.012	96	6400	1.00	1.14	
19 Dichlorofluoromethane	67	5.508	5.514	-0.006	95	18411	1.00	1.13	
14 Trichlorofluoromethane	101	5.630	5.636	-0.006	43	18797	1.00	1.13	
20 Ethyl ether	59	5.922	5.928	-0.006	93	10155	1.00	1.12	
22 Acrolein	56	6.177	6.183	-0.006	97	12274	5.00	4.70	
16 1,1,2-Trichloro-1,2,2-trif	101	6.262	6.269	-0.007	57	10696	1.00	1.10	
25 1,1-Dichloroethene	96	6.317	6.317	0.000	94	9595	1.00	1.12	
24 Acetone	43	6.360	6.360	0.000	100	25027	5.00	5.62	
18 Iodomethane	142	6.579	6.585	-0.006	98	17478	1.00	1.06	
27 Carbon disulfide	76	6.694	6.700	-0.006	100	29698	1.00	1.06	
30 Methyl acetate	43	6.731	6.737	-0.006	98	65093	5.00	5.31	
28 3-Chloro-1-propene	41	6.767	6.767	0.000	81	16978	1.00	1.07	
31 Methylene Chloride	84	6.938	6.938	0.000	98	12770	1.00	0.8146	
33 2-Methyl-2-propanol	59	6.968	6.968	0.000	63	17421	10.0	9.81	M
32 Methyl tert-butyl ether	73	7.199	7.193	0.006	96	30912	1.00	1.04	
34 Acrylonitrile	53	7.236	7.236	0.000	99	63602	10.0	10.8	
35 trans-1,2-Dichloroethene	96	7.260	7.260	0.000	93	10036	1.00	1.09	
36 Hexane	57	7.491	7.497	-0.006	93	15680	1.00	1.12	

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	7.735	7.735	0.000	98	42766	2.00	1.88	
40 1,1-Dichloroethane	63	7.789	7.789	0.000	95	19568	1.00	1.11	
44 2-Butanone (MEK)	43	8.434	8.434	0.000	95	36620	5.00	4.95	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	82	11057	1.00	1.08	
45 2,2-Dichloropropane	77	8.483	8.489	-0.006	64	15241	1.00	1.13	
50 Chlorobromomethane	128	8.799	8.805	-0.006	91	5710	1.00	1.07	
51 Tetrahydrofuran	42	8.830	8.830	0.000	83	11342	2.00	1.80	
49 Chloroform	83	8.836	8.836	0.000	95	17482	1.00	1.07	
52 1,1,1-Trichloroethane	97	9.091	9.097	-0.006	96	17558	1.00	1.15	
54 Cyclohexane	56	9.164	9.170	-0.006	93	18036	1.00	1.03	
53 Isobutyl alcohol	43	9.262	9.249	0.013	35	10578	25.0	25.6	
56 1,1-Dichloropropene	75	9.268	9.274	-0.006	89	13383	1.00	1.09	
55 Carbon tetrachloride	117	9.298	9.304	-0.006	58	13201	1.00	1.00	
57 Benzene	78	9.554	9.554	0.000	98	37295	1.00	1.06	
60 1,2-Dichloroethane	62	9.578	9.578	0.000	96	18693	1.00	1.20	
59 n-Heptane	43	9.675	9.675	0.000	94	17949	1.00	0.8334	
62 Trichloroethene	95	10.308	10.302	0.006	95	10648	1.00	1.11	
64 Methylcyclohexane	83	10.545	10.545	0.000	92	14693	1.00	1.01	
63 1,2-Dichloropropane	63	10.606	10.618	-0.012	43	9339	1.00	1.02	
68 1,4-Dioxane	88	10.740	10.734	0.006	1	1825	20.0	18.6	M
69 Dibromomethane	93	10.807	10.807	0.000	93	7120	1.00	1.06	
70 Dichlorobromomethane	83	10.941	10.941	0.000	94	11362	1.00	1.01	
71 2-Chloroethyl vinyl ether	63	11.208	11.202	0.006	92	5275	1.00	0.8062	
73 cis-1,3-Dichloropropene	75	11.476	11.482	-0.006	91	12708	1.00	0.9405	
75 4-Methyl-2-pentanone (MIBK	43	11.592	11.586	0.006	99	73106	5.00	5.15	
76 Toluene	92	11.920	11.920	0.000	98	28063	1.00	0.9818	
77 Ethyl methacrylate	69	12.151	12.151	0.000	90	8867	1.00	0.8309	
78 trans-1,3-Dichloropropene	75	12.188	12.182	0.006	92	12092	1.00	0.9576	
79 1,1,2-Trichloroethane	83	12.455	12.462	-0.007	54	7768	1.00	1.12	
80 Tetrachloroethene	166	12.668	12.668	0.000	92	11272	1.00	1.08	
83 2-Hexanone	43	12.681	12.675	0.006	98	50391	5.00	5.09	
82 1,3-Dichloropropane	76	12.705	12.705	0.000	95	14913	1.00	1.08	
81 Chlorodibromomethane	129	13.052	13.046	0.006	86	7666	1.00	0.8789	
85 Ethylene Dibromide	107	13.234	13.246	-0.012	98	8753	1.00	0.99	
87 Chlorobenzene	112	13.830	13.836	-0.006	95	30310	1.00	1.11	
89 Ethylbenzene	91	13.903	13.897	0.006	99	45851	1.00	1.10	
88 1,1,1,2-Tetrachloroethane	131	13.922	13.916	0.006	54	8671	1.00	0.9655	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	14819	1.00	0.9607	
93 o-Xylene	106	14.591	14.591	0.000	97	16272	1.00	1.04	
94 Styrene	104	14.609	14.609	0.000	94	22055	1.00	0.9450	
92 Bromoform	173	14.956	14.962	-0.006	92	6205	1.00	0.9012	
95 Isopropylbenzene	105	15.029	15.029	0.000	97	40650	1.00	1.00	
97 1,1,2,2-Tetrachloroethane	83	15.461	15.455	0.006	95	13587	1.00	1.03	
98 trans-1,4-Dichloro-2-buten	53	15.509	15.509	0.000	60	4851	1.00	0.9223	
101 1,2,3-Trichloropropane	110	15.552	15.546	0.006	60	3673	1.00	0.9373	
100 Bromobenzene	156	15.552	15.552	0.000	91	12298	1.00	1.00	
99 N-Propylbenzene	91	15.564	15.564	0.000	98	51023	1.00	1.02	
103 2-Chlorotoluene	126	15.759	15.753	0.006	93	10791	1.00	1.03	
102 1,3,5-Trimethylbenzene	105	15.753	15.759	-0.006	86	34408	1.00	1.00	
105 4-Chlorotoluene	126	15.881	15.881	-0.001	98	11249	1.00	1.04	
106 tert-Butylbenzene	134	16.197	16.197	0.000	93	7273	1.00	0.9144	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	96	34199	1.00	0.9542	

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	16.465	16.465	0.000	95	40862	1.00	0.9287	
112 4-Isopropyltoluene	119	16.617	16.617	0.000	96	36189	1.00	0.9239	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	97	24485	1.00	1.07	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	88	24104	1.00	1.04	
115 n-Butylbenzene	91	17.140	17.134	0.006	97	36719	1.00	1.02	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	96	24383	1.00	1.05	
117 1,2-Dibromo-3-Chloropropan	75	18.277	18.271	0.006	74	3444	1.00	1.03	M
119 1,2,4-Trichlorobenzene	180	19.348	19.354	-0.006	92	19075	1.00	0.9888	
120 Hexachlorobutadiene	225	19.494	19.500	-0.006	94	8887	1.00	1.00	
121 Naphthalene	128	19.756	19.750	0.006	97	47964	1.00	0.9330	
122 1,2,3-Trichlorobenzene	180	20.109	20.109	0.000	96	18756	1.00	1.00	
S 123 1,2-Dichloroethene, Total	1				0			2.17	
S 124 1,3-Dichloropropene, Total	1				0			1.90	
S 125 Total BTEX	1				0			5.14	
S 126 Xylenes, Total	1				0			2.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00076	Amount Added:	1.00	Units: uL	
GAS CORP mix_00161	Amount Added:	1.00	Units: uL	
P 8260 IS_00149	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00184	Amount Added:	1.25	Units: uL	Run Reagent

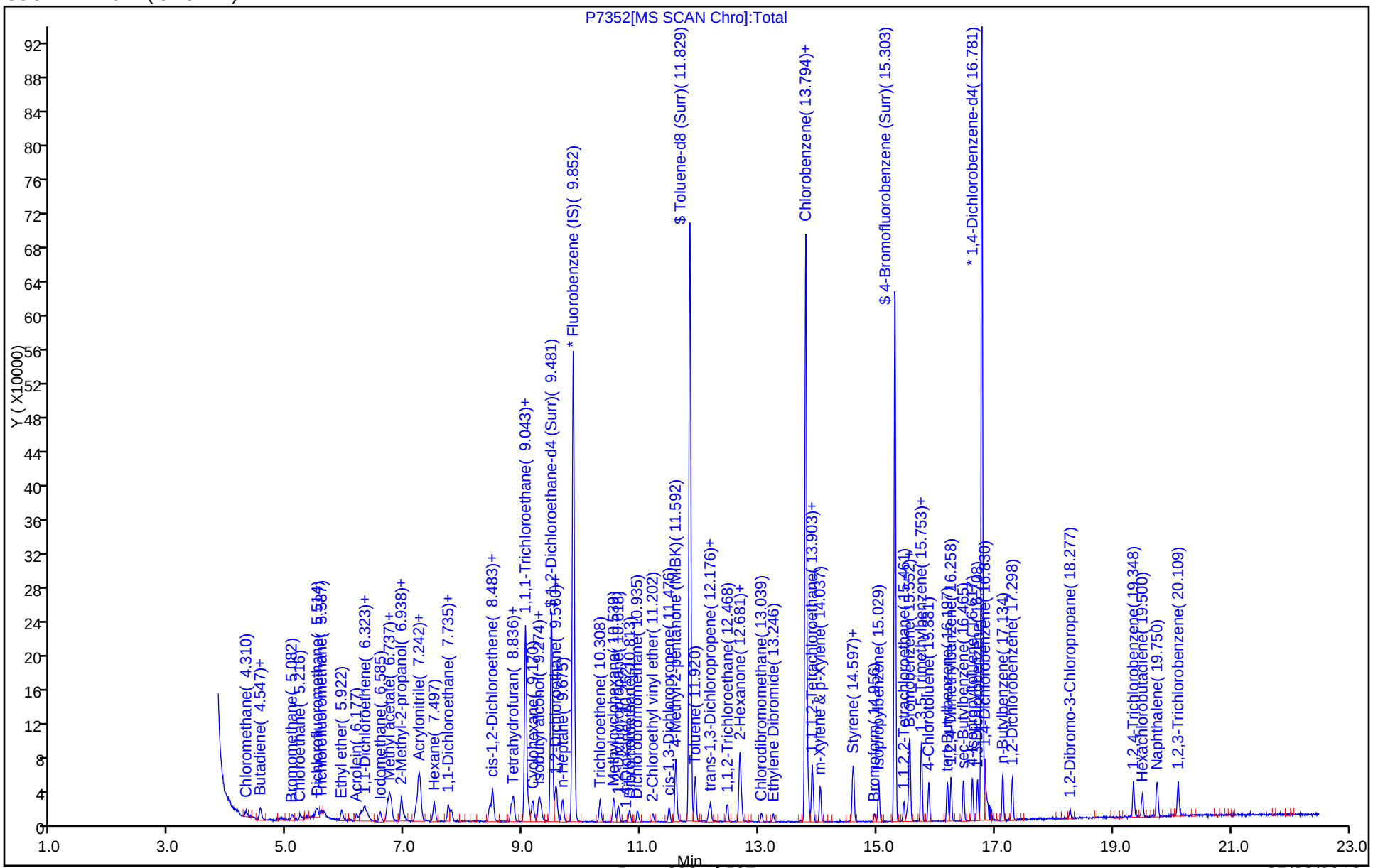
Report Date: 20-Jun-2016 12:36:29 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7352.D

Injection Date:	19-Jun-2016 23:13:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

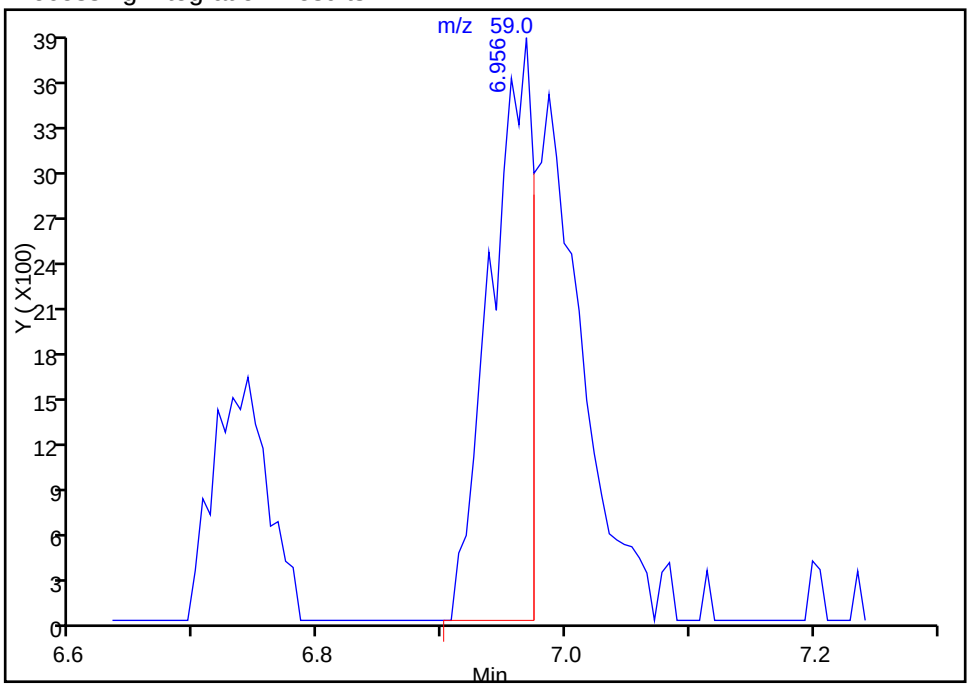
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7352.D
Injection Date: 19-Jun-2016 23:13:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: NMD ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

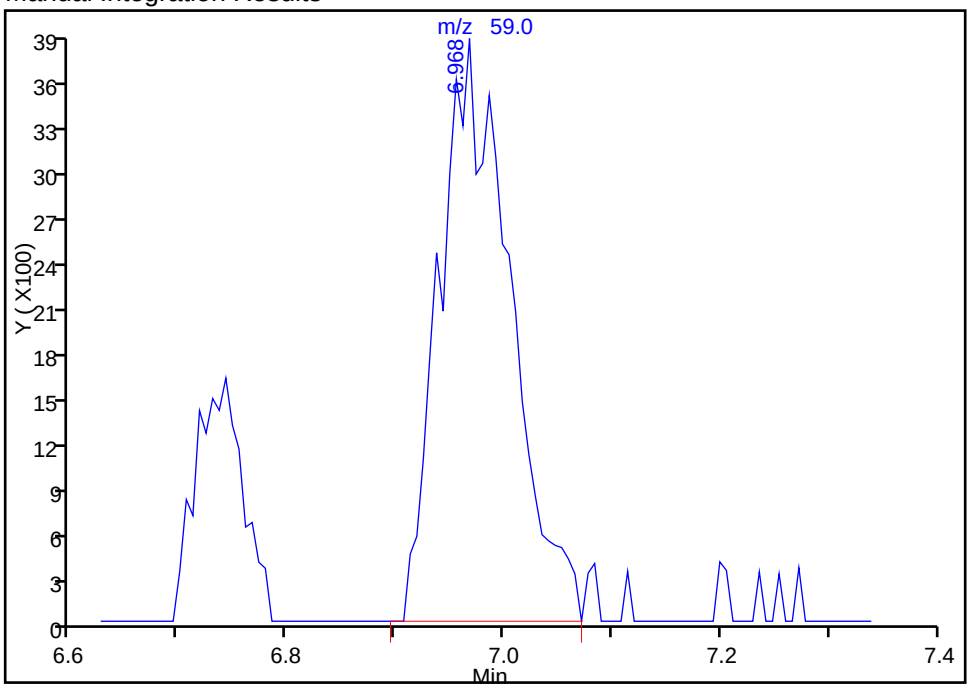
Processing Integration Results

RT: 6.96
Area: 9117
Amount: 5.838963
Amount Units: ug/L



Manual Integration Results

RT: 6.97
Area: 17421
Amount: 9.807140
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:03:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

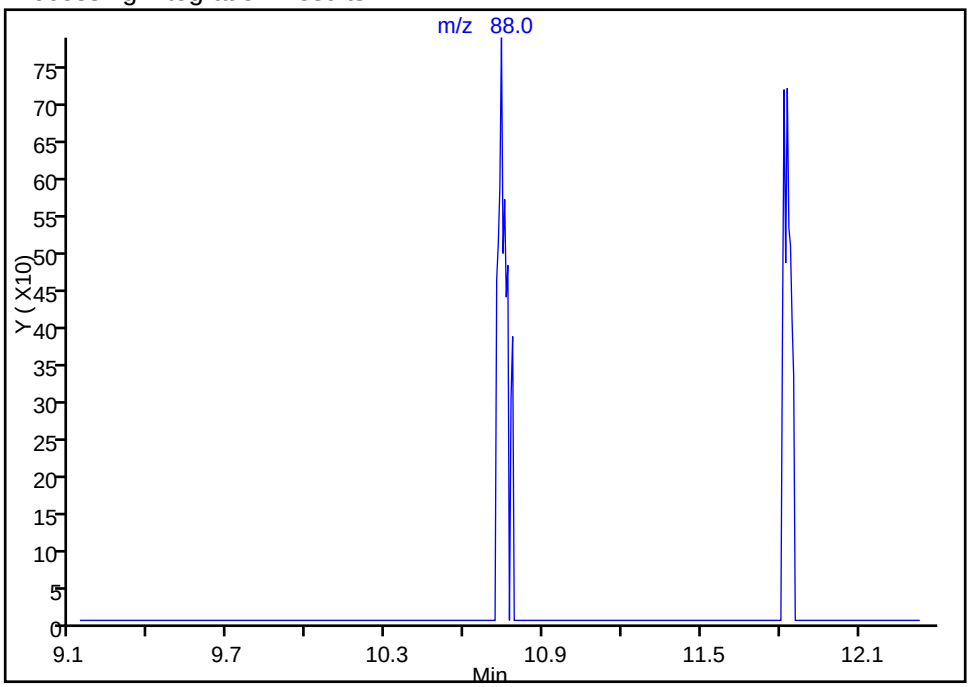
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7352.D
Injection Date: 19-Jun-2016 23:13:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: NMD ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

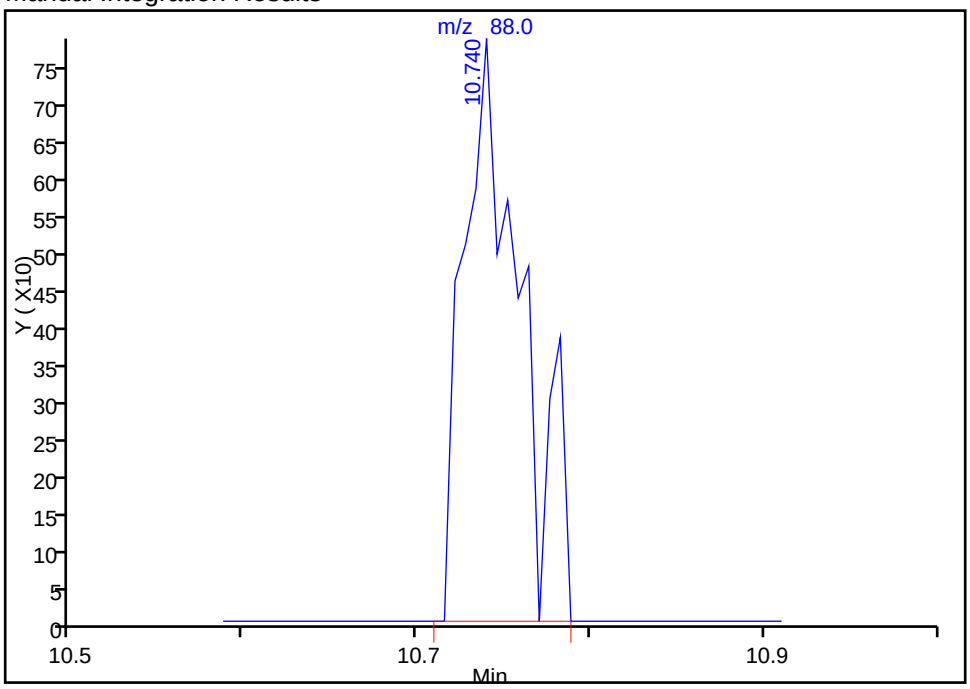
Not Detected
Expected RT: 10.73

Processing Integration Results



Manual Integration Results

RT: 10.74
Area: 1825
Amount: 18.620262
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:03:48
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

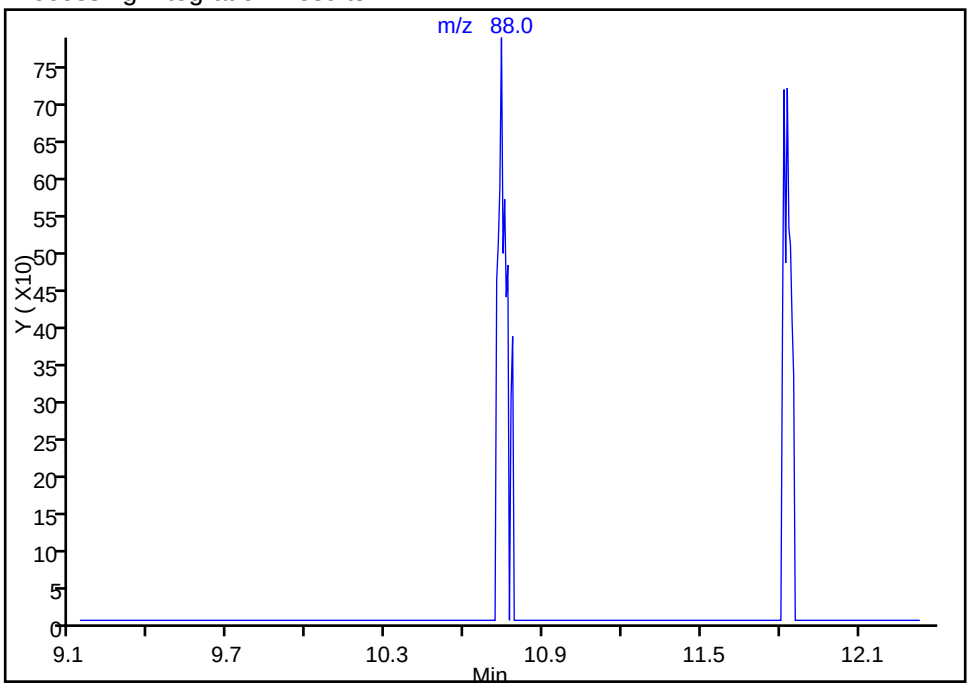
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7352.D
Injection Date: 19-Jun-2016 23:13:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: NMD ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

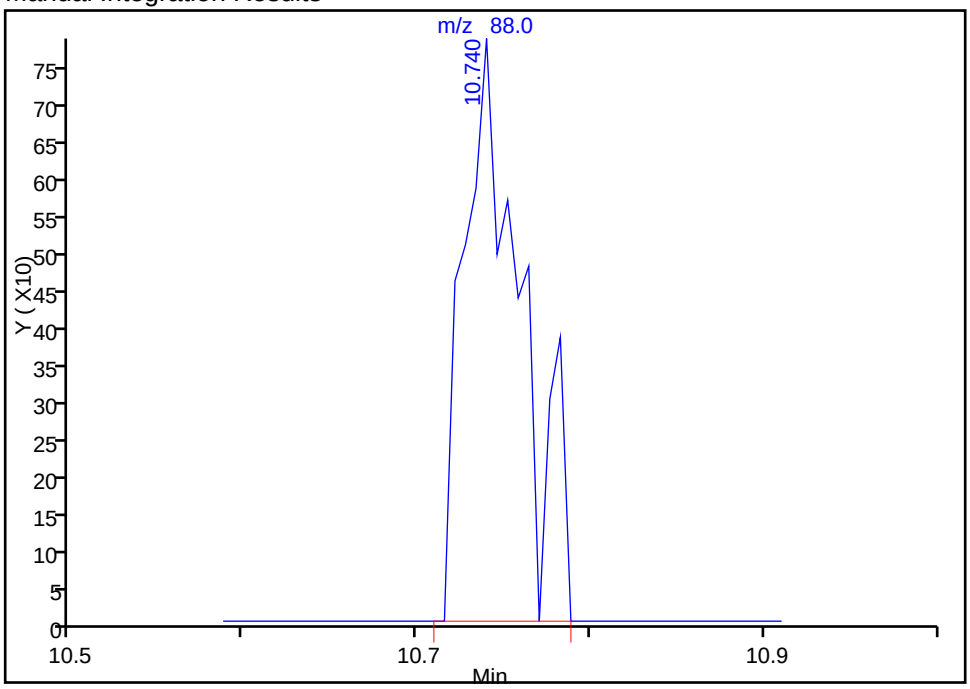
Not Detected
Expected RT: 10.73

Processing Integration Results



Manual Integration Results

RT: 10.74
Area: 1825
Amount: 18.620262
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:03:48
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

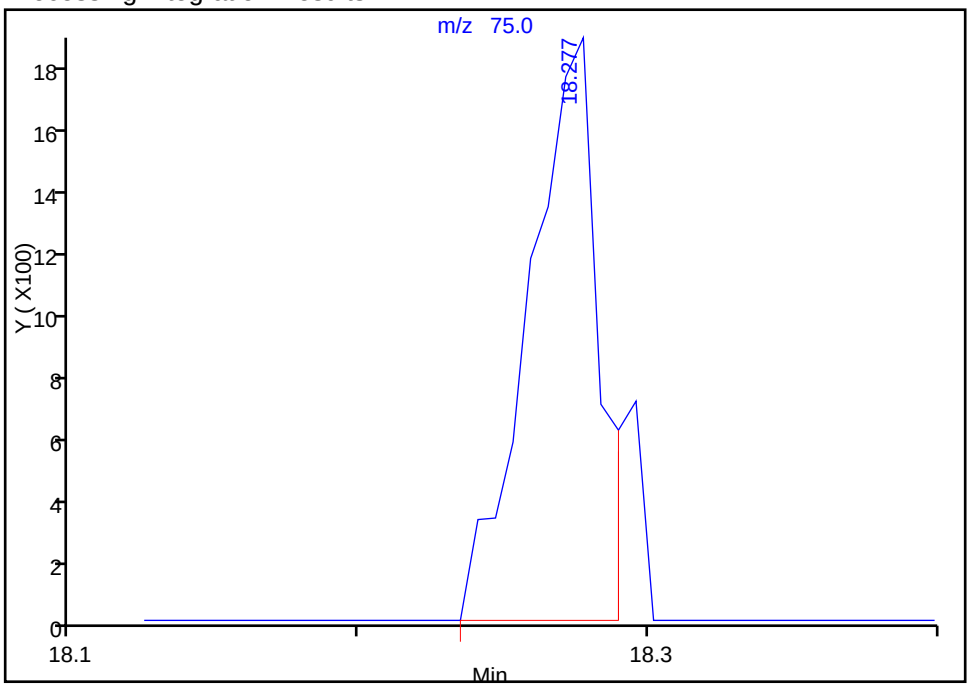
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7352.D
Injection Date: 19-Jun-2016 23:13:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: NMD ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

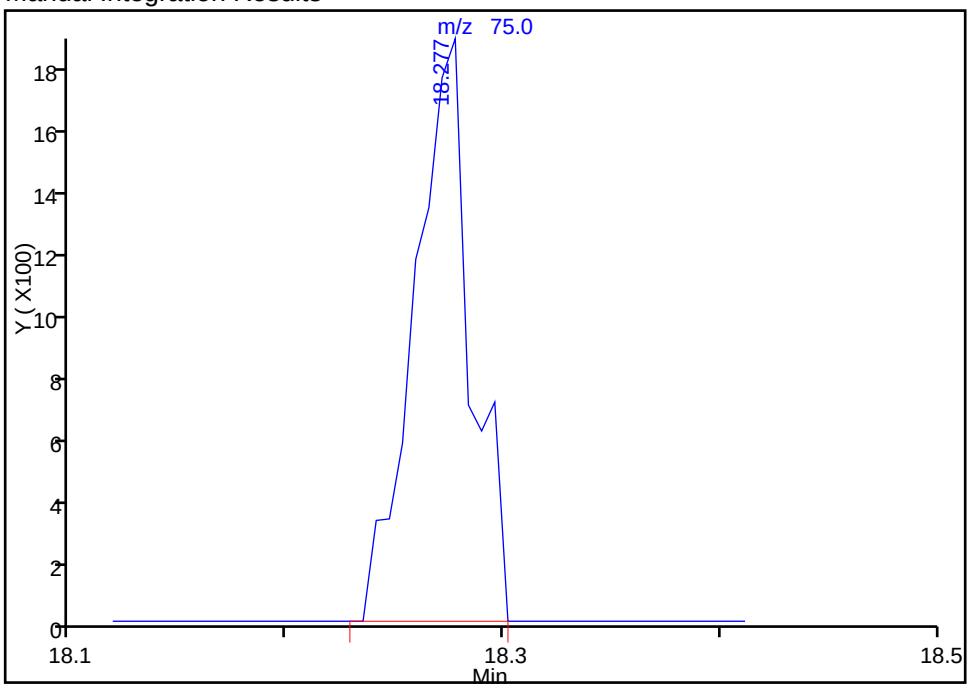
Processing Integration Results

RT: 18.28
Area: 3185
Amount: 0.965886
Amount Units: ug/L



Manual Integration Results

RT: 18.28
Area: 3444
Amount: 1.032842
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:03:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7353.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Jun-2016 23:40:30 ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0054167-006
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:31 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:04:39

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	9.852	9.852	0.000	98	129731	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	269654	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	317567	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	93	190497	25.0	25.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.487	0.000	0	117145	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	11.829	11.835	-0.006	93	641868	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	94	244361	25.0	24.9	
10 Dichlorodifluoromethane	85	3.999	4.005	-0.006	98	62027	5.00	5.29	
11 Chloromethane	50	4.310	4.322	-0.012	96	42595	5.00	4.85	
17 Vinyl chloride	62	4.535	4.541	-0.006	98	36403	5.00	4.94	
144 Butadiene	54	4.553	4.565	-0.012	90	32779	5.00	4.99	
12 Bromomethane	94	5.088	5.100	-0.012	94	25749	5.00	4.77	
13 Chloroethane	64	5.222	5.228	-0.006	97	28048	5.00	4.99	
19 Dichlorofluoromethane	67	5.514	5.514	0.000	97	81382	5.00	4.98	
14 Trichlorofluoromethane	101	5.611	5.636	-0.025	98	83383	5.00	5.02	
20 Ethyl ether	59	5.928	5.928	0.000	96	46529	5.00	5.12	
22 Acrolein	56	6.183	6.183	0.000	99	66983	25.0	25.7	
16 1,1,2-Trichloro-1,2,2-trif	101	6.275	6.269	0.005	90	50314	5.00	5.20	
25 1,1-Dichloroethene	96	6.317	6.317	0.000	95	45745	5.00	5.34	
24 Acetone	43	6.360	6.360	0.000	99	117423	25.0	26.4	
18 Iodomethane	142	6.579	6.585	-0.006	99	83726	5.00	5.09	
27 Carbon disulfide	76	6.694	6.700	-0.006	100	144299	5.00	5.18	
30 Methyl acetate	43	6.731	6.737	-0.006	99	318093	25.0	26.0	
28 3-Chloro-1-propene	41	6.767	6.767	0.000	88	80894	5.00	5.12	
31 Methylene Chloride	84	6.938	6.938	0.000	96	50657	5.00	5.36	
33 2-Methyl-2-propanol	59	6.968	6.968	0.000	98	94899	50.0	53.5	
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	99	145001	5.00	4.90	
34 Acrylonitrile	53	7.236	7.236	0.000	99	315112	50.0	53.5	
35 trans-1,2-Dichloroethene	96	7.260	7.260	0.000	95	47964	5.00	5.23	
36 Hexane	57	7.497	7.497	0.000	94	75108	5.00	5.37	

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	7.735	7.735	0.000	97	219782	10.0	9.69	
40 1,1-Dichloroethane	63	7.783	7.789	-0.006	97	92081	5.00	5.25	
44 2-Butanone (MEK)	43	8.434	8.434	0.000	99	193857	25.0	26.2	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	85	52446	5.00	5.11	
45 2,2-Dichloropropane	77	8.483	8.489	-0.006	64	68282	5.00	5.06	
50 Chlorobromomethane	128	8.799	8.805	-0.006	96	26630	5.00	5.02	
51 Tetrahydrofuran	42	8.836	8.830	0.006	79	52551	10.0	10.8	
49 Chloroform	83	8.836	8.836	0.000	96	83560	5.00	5.14	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	98	74378	5.00	4.89	
54 Cyclohexane	56	9.164	9.170	-0.006	94	92788	5.00	5.28	M
53 Isobutyl alcohol	43	9.262	9.249	0.013	93	44657	125.0	82.9	
56 1,1-Dichloropropene	75	9.274	9.274	0.000	92	63507	5.00	5.18	
55 Carbon tetrachloride	117	9.298	9.304	-0.006	97	67617	5.00	5.11	
57 Benzene	78	9.554	9.554	0.000	97	182666	5.00	5.18	
60 1,2-Dichloroethane	62	9.578	9.578	0.000	96	78964	5.00	5.08	
59 n-Heptane	43	9.669	9.675	-0.006	92	68336	5.00	5.24	
62 Trichloroethene	95	10.308	10.302	0.006	95	48808	5.00	5.08	
64 Methylcyclohexane	83	10.539	10.545	-0.006	96	76365	5.00	5.26	
63 1,2-Dichloropropane	63	10.612	10.618	-0.006	89	48431	5.00	5.31	
68 1,4-Dioxane	88	10.740	10.734	0.006	97	11628	100.0	114.1	
69 Dibromomethane	93	10.807	10.807	0.000	93	32696	5.00	4.89	
70 Dichlorobromomethane	83	10.947	10.941	0.006	97	54326	5.00	4.86	
71 2-Chloroethyl vinyl ether	63	11.208	11.202	0.006	93	32544	5.00	4.98	
73 cis-1,3-Dichloropropene	75	11.482	11.482	0.000	93	67230	5.00	4.98	
75 4-Methyl-2-pentanone (MIBK	43	11.585	11.586	-0.001	98	388083	25.0	26.3	
76 Toluene	92	11.920	11.920	0.000	98	119100	5.00	5.24	
77 Ethyl methacrylate	69	12.151	12.151	0.000	90	52937	5.00	4.77	
78 trans-1,3-Dichloropropene	75	12.182	12.182	0.000	94	65711	5.00	5.00	
79 1,1,2-Trichloroethane	83	12.468	12.462	0.006	92	36416	5.00	5.07	
80 Tetrachloroethene	166	12.668	12.668	0.000	95	56104	5.00	5.15	
83 2-Hexanone	43	12.681	12.675	0.005	99	276010	25.0	26.8	
82 1,3-Dichloropropane	76	12.699	12.705	-0.006	98	76266	5.00	5.31	
81 Chlorodibromomethane	129	13.039	13.046	-0.007	90	40745	5.00	4.49	
85 Ethylene Dibromide	107	13.240	13.246	-0.006	98	43516	5.00	4.74	
87 Chlorobenzene	112	13.836	13.836	0.000	97	141638	5.00	5.01	
89 Ethylbenzene	91	13.897	13.897	0.000	99	218595	5.00	5.06	
88 1,1,1,2-Tetrachloroethane	131	13.922	13.916	0.006	92	46363	5.00	4.97	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	80569	5.00	5.02	
93 o-Xylene	106	14.591	14.591	0.000	98	82068	5.00	5.04	
94 Styrene	104	14.609	14.609	0.000	95	119250	5.00	4.91	
92 Bromoform	173	14.962	14.962	0.000	96	29696	5.00	4.15	
95 Isopropylbenzene	105	15.035	15.029	0.006	96	210097	5.00	5.11	
97 1,1,2,2-Tetrachloroethane	83	15.455	15.455	0.000	97	66609	5.00	4.96	
98 trans-1,4-Dichloro-2-buten	53	15.515	15.509	0.006	80	26837	5.00	5.02	
101 1,2,3-Trichloropropane	110	15.546	15.546	0.000	63	20922	5.00	5.26	
100 Bromobenzene	156	15.552	15.552	0.000	94	65753	5.00	5.27	
99 N-Propylbenzene	91	15.558	15.564	-0.006	99	265977	5.00	5.22	
103 2-Chlorotoluene	126	15.753	15.753	0.000	95	53716	5.00	5.04	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	94	182158	5.00	5.22	
105 4-Chlorotoluene	126	15.880	15.881	-0.001	98	54301	5.00	4.93	
106 tert-Butylbenzene	134	16.197	16.197	0.000	93	40908	5.00	5.06	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	186144	5.00	5.11	

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	16.465	16.465	-0.001	95	230744	5.00	5.16	
112 4-Isopropyltoluene	119	16.617	16.617	0.000	97	203589	5.00	5.12	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	97	118061	5.00	5.10	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	96	117590	5.00	5.01	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	181234	5.00	4.98	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	96	116945	5.00	4.95	
117 1,2-Dibromo-3-Chloropropan	75	18.277	18.271	0.006	79	15224	5.00	4.49	
119 1,2,4-Trichlorobenzene	180	19.348	19.354	-0.006	93	92636	5.00	4.73	
120 Hexachlorobutadiene	225	19.506	19.500	0.006	96	43145	5.00	4.77	
121 Naphthalene	128	19.750	19.750	0.000	97	256036	5.00	4.90	
122 1,2,3-Trichlorobenzene	180	20.109	20.109	0.000	94	89608	5.00	4.71	
S 123 1,2-Dichloroethene, Total	1				0			10.3	
S 124 1,3-Dichloropropene, Total	1				0			9.99	
S 125 Total BTEX	1				0			25.6	
S 126 Xylenes, Total	1				0			10.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00076	Amount Added:	5.00	Units: uL	
GAS CORP mix_00161	Amount Added:	5.00	Units: uL	
P 8260 IS_00149	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00184	Amount Added:	1.25	Units: uL	Run Reagent

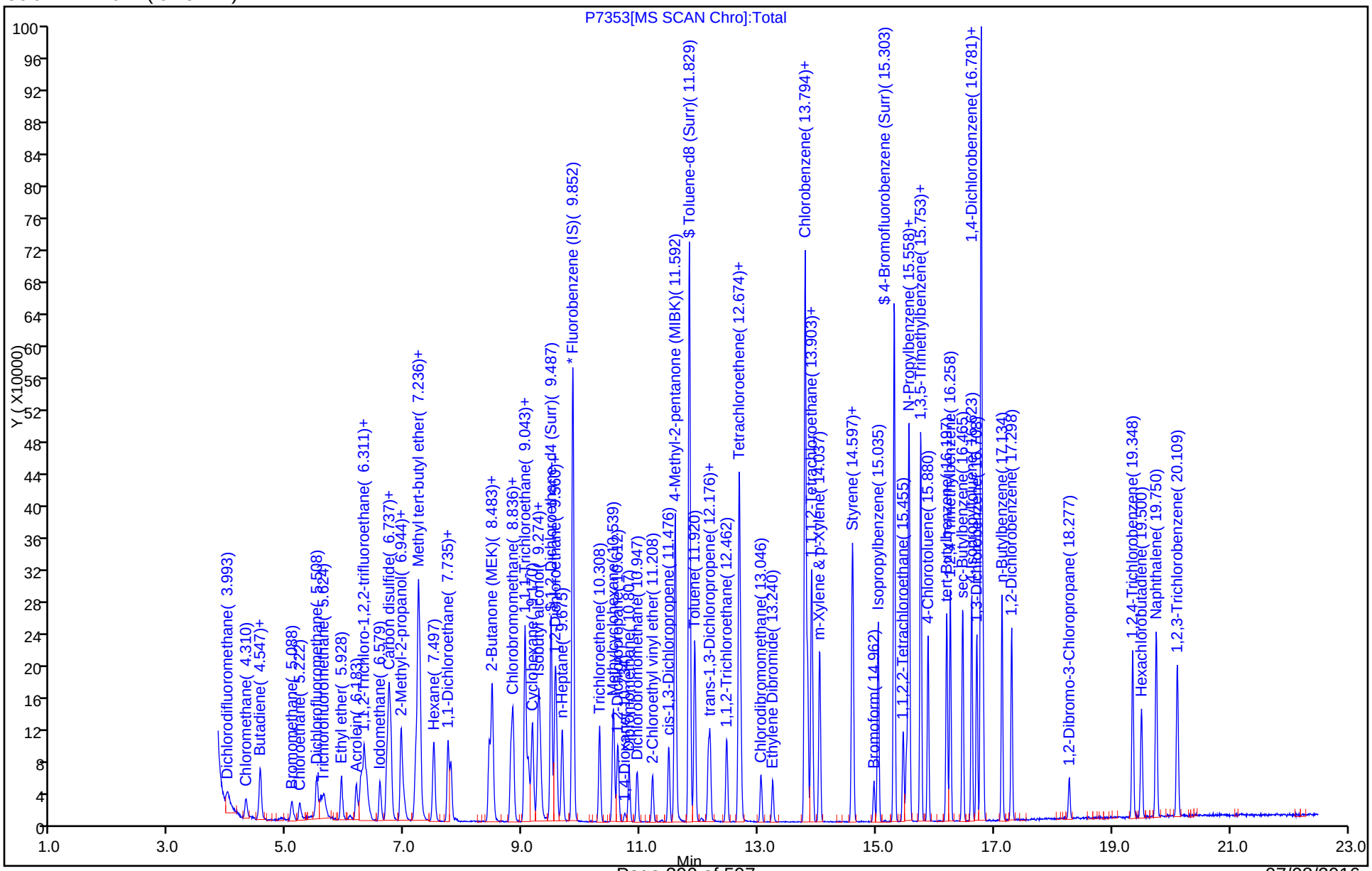
Report Date: 20-Jun-2016 12:36:32 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7353.D

Injection Date:	19-Jun-2016 23:40:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC 3			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

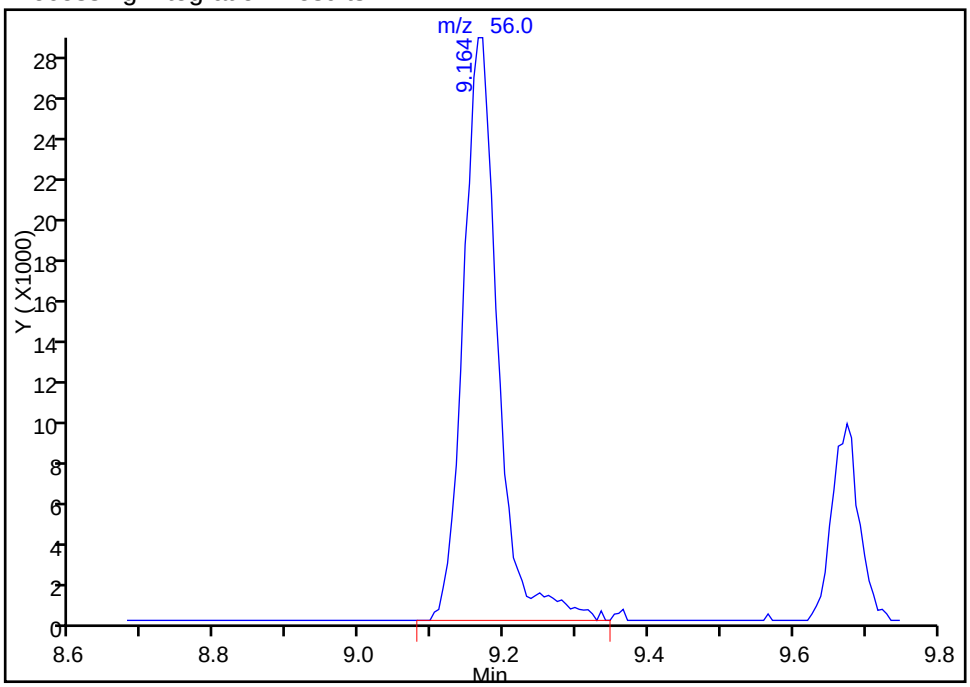
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7353.D
Injection Date: 19-Jun-2016 23:40:30 Instrument ID: HP5973P
Lims ID: IC 3
Client ID:
Operator ID: NMD ALS Bottle#: 8 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

54 Cyclohexane, CAS: 110-82-7

Signal: 1

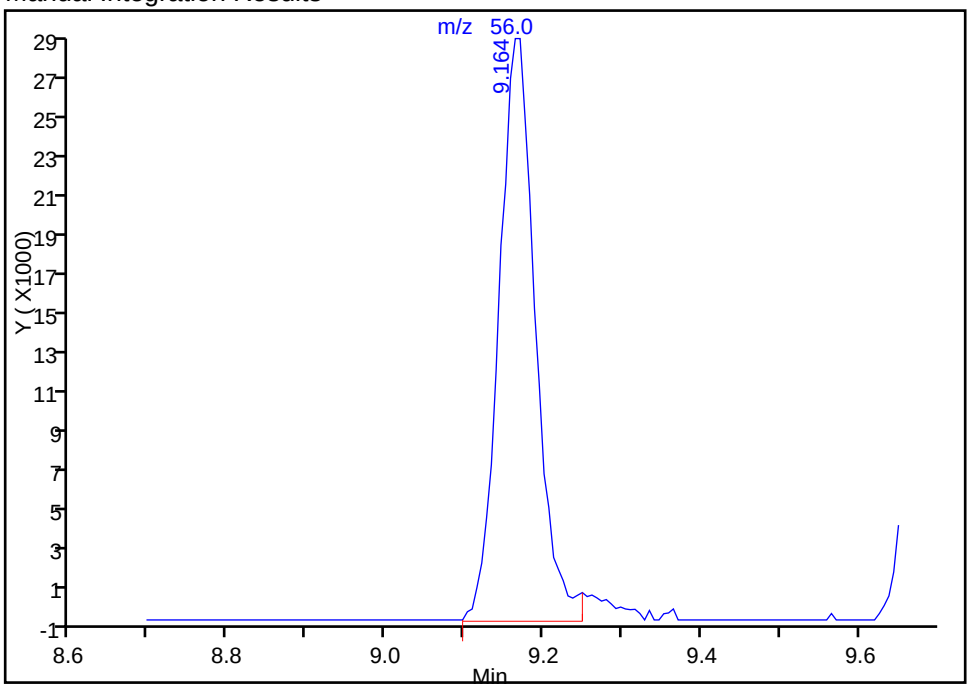
Processing Integration Results

RT: 9.16
Area: 95747
Amount: 5.422765
Amount Units: ug/L



Manual Integration Results

RT: 9.16
Area: 92788
Amount: 5.280461
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:19:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7354.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jun-2016 00:07:30 ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0054167-007
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:35 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:05:23

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	9.852	9.852	0.000	98	132675	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	272066	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	324032	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	93	190140	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.487	0.000	0	116604	25.0	24.7	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	93	649378	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.303	15.303	0.000	94	244660	25.0	24.7	
10 Dichlorodifluoromethane	85	3.999	3.999	0.000	99	120427	10.0	10.1	
11 Chloromethane	50	4.310	4.310	0.000	98	86509	10.0	9.64	
17 Vinyl chloride	62	4.535	4.535	0.000	98	71508	10.0	9.49	
144 Butadiene	54	4.559	4.559	0.000	92	66110	10.0	9.85	
12 Bromomethane	94	5.094	5.094	0.000	93	51825	10.0	9.38	
13 Chloroethane	64	5.222	5.222	0.000	98	53121	10.0	9.25	
19 Dichlorofluoromethane	67	5.502	5.502	0.000	97	157203	10.0	9.41	
14 Trichlorofluoromethane	101	5.612	5.612	0.000	98	165808	10.0	9.77	
20 Ethyl ether	59	5.928	5.928	0.000	97	93519	10.0	10.1	
22 Acrolein	56	6.177	6.177	0.000	100	136101	50.0	51.0	
16 1,1,2-Trichloro-1,2,2-trif	101	6.269	6.269	0.000	91	100482	10.0	10.1	
25 1,1-Dichloroethene	96	6.311	6.311	0.000	94	89085	10.0	10.2	
24 Acetone	43	6.360	6.360	0.000	99	225068	50.0	49.5	
18 Iodomethane	142	6.579	6.579	0.000	99	168793	10.0	10.0	
27 Carbon disulfide	76	6.694	6.694	0.000	100	282188	10.0	9.91	
30 Methyl acetate	43	6.731	6.731	0.000	99	626755	50.0	50.1	
28 3-Chloro-1-propene	41	6.761	6.761	0.000	87	163006	10.0	10.1	
31 Methylene Chloride	84	6.938	6.938	0.000	97	98777	10.0	10.9	
33 2-Methyl-2-propanol	59	6.962	6.962	0.000	98	167264	100.0	92.2	M
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	98	308539	10.0	10.2	
34 Acrylonitrile	53	7.236	7.236	0.000	100	608775	100.0	101.1	
35 trans-1,2-Dichloroethene	96	7.260	7.260	0.000	95	96667	10.0	10.3	
36 Hexane	57	7.491	7.491	0.000	93	141873	10.0	9.91	

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	7.735	7.735	0.000	97	478250	20.0	20.6	
40 1,1-Dichloroethane	63	7.783	7.783	0.000	97	184857	10.0	10.3	
44 2-Butanone (MEK)	43	8.428	8.428	0.000	99	375058	50.0	49.6	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	84	107659	10.0	10.2	
45 2,2-Dichloropropane	77	8.489	8.489	0.000	57	140903	10.0	10.2	
50 Chlorobromomethane	128	8.799	8.799	0.000	96	52871	10.0	9.74	
51 Tetrahydrofuran	42	8.830	8.830	0.000	80	106062	20.0	22.0	
49 Chloroform	83	8.842	8.842	0.000	95	167771	10.0	10.1	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	97	150488	10.0	9.67	
54 Cyclohexane	56	9.170	9.170	0.000	93	184913	10.0	10.3	
53 Isobutyl alcohol	43	9.256	9.256	0.000	95	144818	250.0	245.8	
56 1,1-Dichloropropene	75	9.268	9.268	0.000	93	124304	10.0	9.91	
55 Carbon tetrachloride	117	9.304	9.304	0.000	96	136901	10.0	10.1	
57 Benzene	78	9.554	9.554	0.000	97	350610	10.0	9.73	
60 1,2-Dichloroethane	62	9.578	9.578	0.000	97	158771	10.0	9.98	
59 n-Heptane	43	9.669	9.669	0.000	95	133730	10.0	10.7	
62 Trichloroethene	95	10.302	10.302	0.000	94	97034	10.0	9.87	
64 Methylcyclohexane	83	10.545	10.545	0.000	95	149564	10.0	10.1	
63 1,2-Dichloropropane	63	10.612	10.612	0.000	93	95222	10.0	10.2	
68 1,4-Dioxane	88	10.740	10.740	0.000	97	20389	200.0	198.3	M
69 Dibromomethane	93	10.807	10.807	0.000	93	68243	10.0	9.98	
70 Dichlorobromomethane	83	10.947	10.947	0.000	97	111073	10.0	9.71	
71 2-Chloroethyl vinyl ether	63	11.202	11.202	0.000	93	67203	10.0	10.1	
73 cis-1,3-Dichloropropene	75	11.482	11.482	0.000	93	139693	10.0	10.1	
75 4-Methyl-2-pentanone (MIBK	43	11.586	11.586	0.000	98	792659	50.0	53.3	
76 Toluene	92	11.920	11.920	0.000	98	232833	10.0	10.5	
77 Ethyl methacrylate	69	12.151	12.151	0.000	93	114258	10.0	10.2	
78 trans-1,3-Dichloropropene	75	12.182	12.182	0.000	94	131929	10.0	9.96	
79 1,1,2-Trichloroethane	83	12.462	12.462	0.000	93	69197	10.0	9.55	
80 Tetrachloroethene	166	12.669	12.669	0.000	96	109454	10.0	9.96	
83 2-Hexanone	43	12.675	12.675	0.000	98	559640	50.0	53.9	
82 1,3-Dichloropropane	76	12.699	12.699	0.000	97	150437	10.0	10.4	
81 Chlorodibromomethane	129	13.046	13.046	0.000	91	89540	10.0	9.79	
85 Ethylene Dibromide	107	13.240	13.240	0.000	99	92544	10.0	10.0	
87 Chlorobenzene	112	13.830	13.830	0.000	96	276111	10.0	9.68	
89 Ethylbenzene	91	13.903	13.903	0.000	99	439035	10.0	10.1	
88 1,1,1,2-Tetrachloroethane	131	13.916	13.916	0.000	92	96012	10.0	10.2	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	165969	10.0	10.3	
93 o-Xylene	106	14.591	14.591	0.000	98	170570	10.0	10.4	
94 Styrene	104	14.609	14.609	0.000	95	256244	10.0	10.5	
92 Bromoform	173	14.962	14.962	0.000	96	67917	10.0	9.40	
95 Isopropylbenzene	105	15.035	15.035	0.000	96	426761	10.0	10.2	
97 1,1,2,2-Tetrachloroethane	83	15.455	15.455	0.000	97	134324	10.0	9.81	
98 trans-1,4-Dichloro-2-buten	53	15.510	15.510	0.000	83	56610	10.0	10.4	
101 1,2,3-Trichloropropane	110	15.546	15.546	0.000	66	43483	10.0	10.7	
100 Bromobenzene	156	15.546	15.546	0.000	93	131218	10.0	10.3	
99 N-Propylbenzene	91	15.564	15.564	0.000	99	548899	10.0	10.6	
103 2-Chlorotoluene	126	15.753	15.753	0.000	95	112108	10.0	10.3	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	368104	10.0	10.3	
105 4-Chlorotoluene	126	15.881	15.881	0.000	98	110171	10.0	9.81	
106 tert-Butylbenzene	134	16.197	16.197	0.000	93	83446	10.0	10.1	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	391932	10.0	10.6	

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	16.465	16.465	0.000	95	465496	10.0	10.2	
112 4-Isopropyltoluene	119	16.617	16.617	0.000	97	422144	10.0	10.4	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	98	235610	10.0	9.97	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	236524	10.0	9.88	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	370290	10.0	9.96	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	238932	10.0	9.91	
117 1,2-Dibromo-3-Chloropropan	75	18.278	18.278	0.000	83	31034	10.0	8.98	
119 1,2,4-Trichlorobenzene	180	19.354	19.354	0.000	94	195328	10.0	9.77	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	94	89153	10.0	9.66	
121 Naphthalene	128	19.750	19.750	0.000	97	537279	10.0	10.1	
122 1,2,3-Trichlorobenzene	180	20.109	20.109	0.000	96	187734	10.0	9.66	
S 123 1,2-Dichloroethene, Total	1				0			20.5	
S 124 1,3-Dichloropropene, Total	1				0			20.1	
S 125 Total BTEX	1				0			51.0	
S 126 Xylenes, Total	1				0			20.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00076	Amount Added:	5.00	Units: uL	
GAS CORP mix_00161	Amount Added:	5.00	Units: uL	
P 8260 IS_00149	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00184	Amount Added:	1.25	Units: uL	Run Reagent

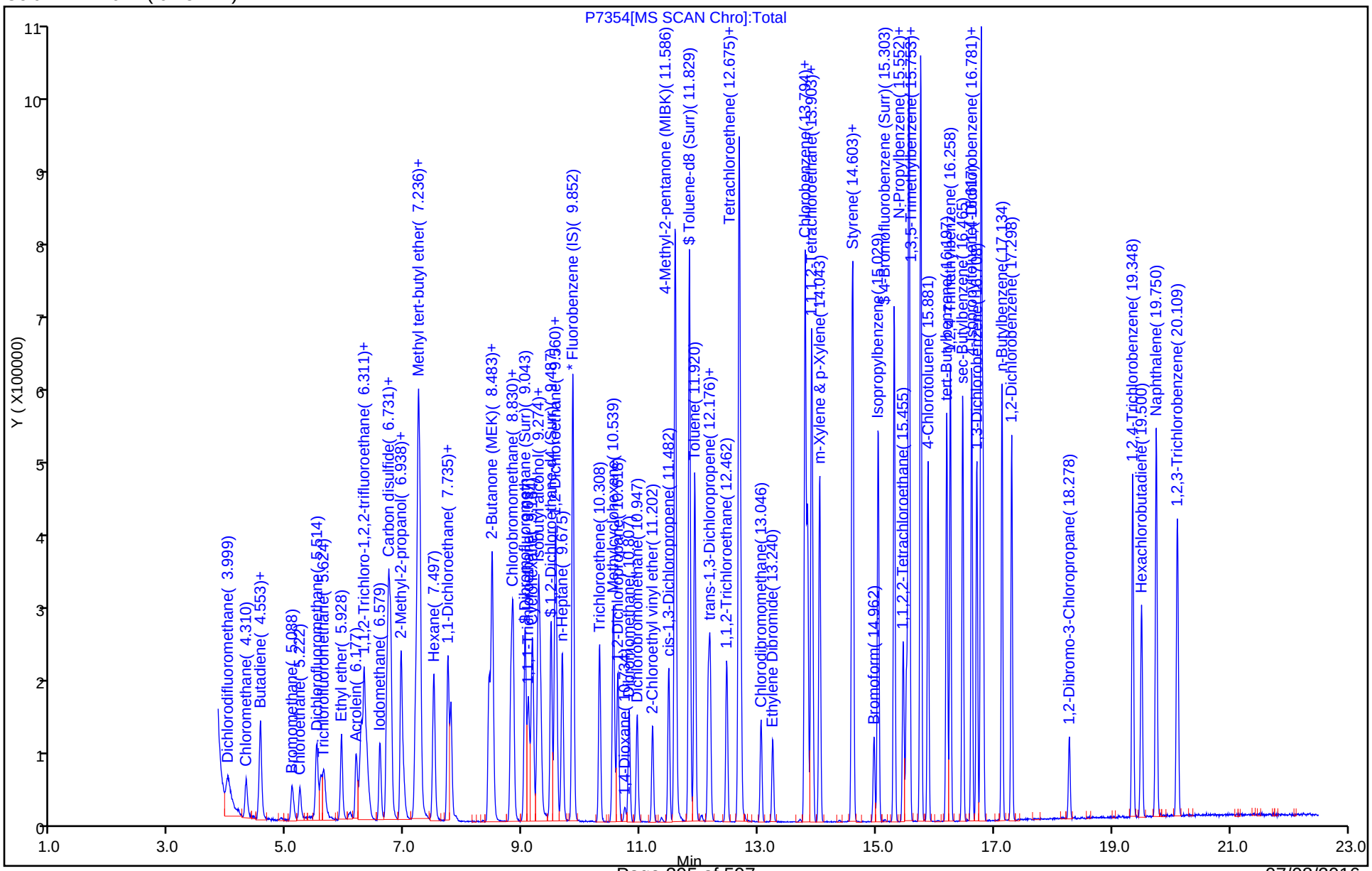
Report Date: 20-Jun-2016 12:36:36 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7354.D

Injection Date:	20-Jun-2016 00:07:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

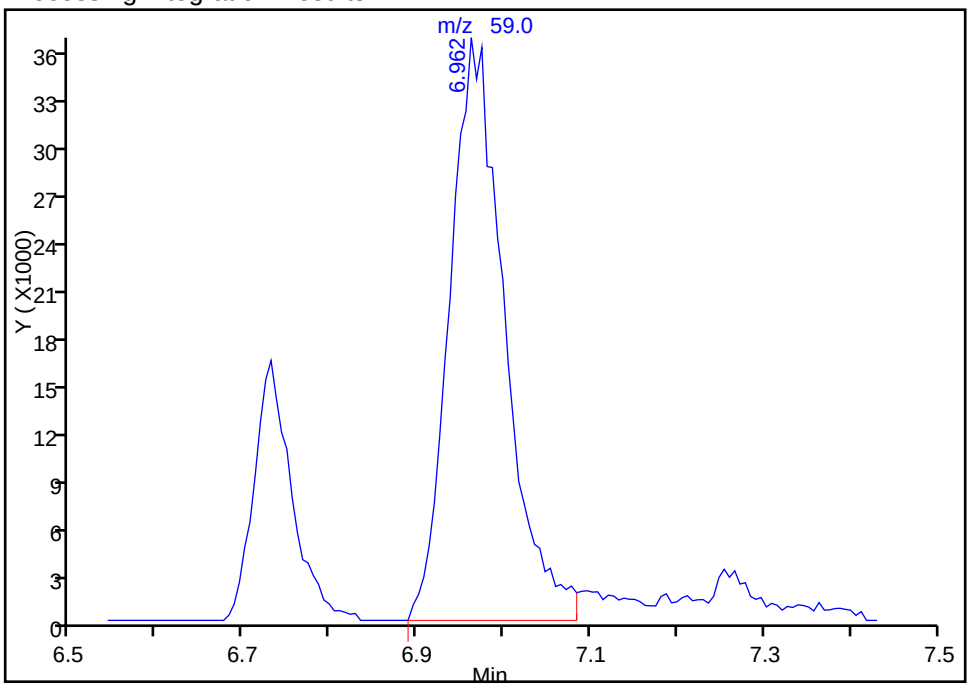
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7354.D
Injection Date: 20-Jun-2016 00:07:30 Instrument ID: HP5973P
Lims ID: IC 4
Client ID:
Operator ID: NMD ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

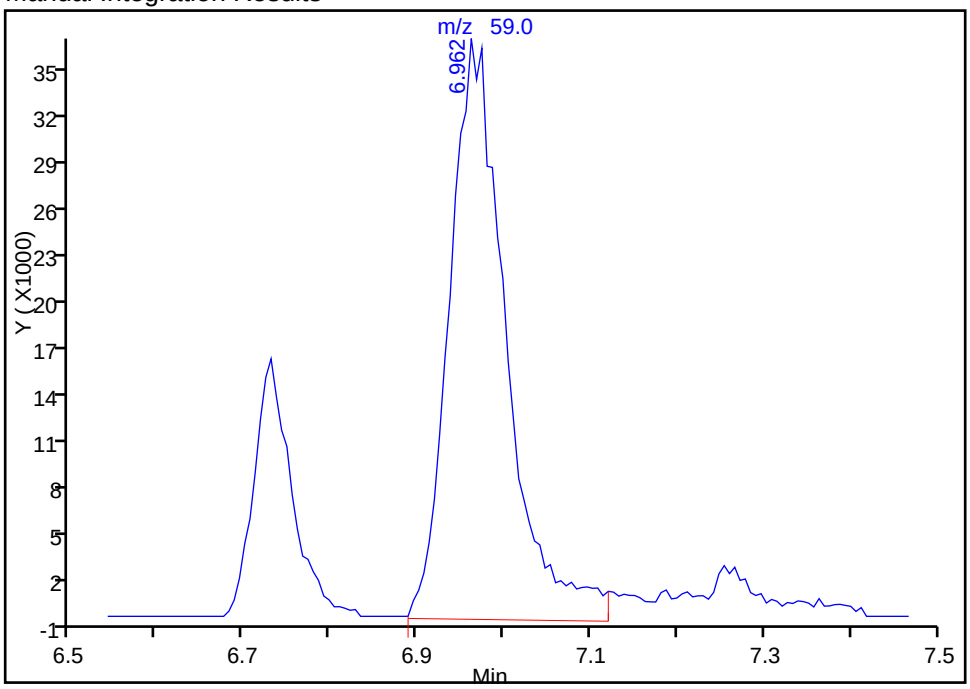
Processing Integration Results

RT: 6.96
Area: 160412
Amount: 88.898785
Amount Units: ug/L



Manual Integration Results

RT: 6.96
Area: 167264
Amount: 92.195959
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:18:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

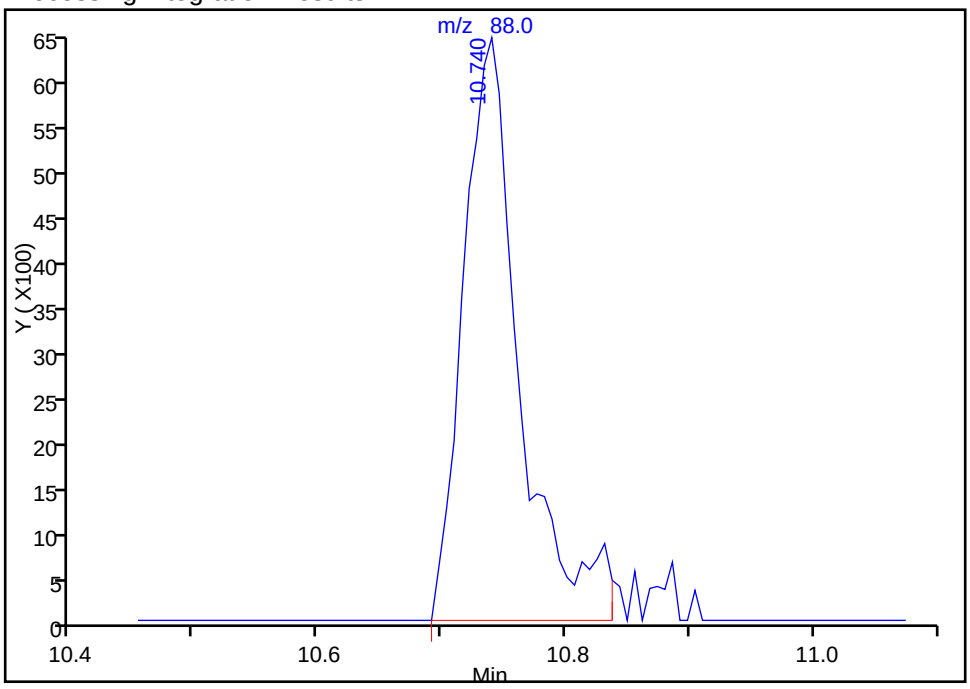
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7354.D
Injection Date: 20-Jun-2016 00:07:30 Instrument ID: HP5973P
Lims ID: IC 4
Client ID:
Operator ID: NMD ALS Bottle#: 9 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

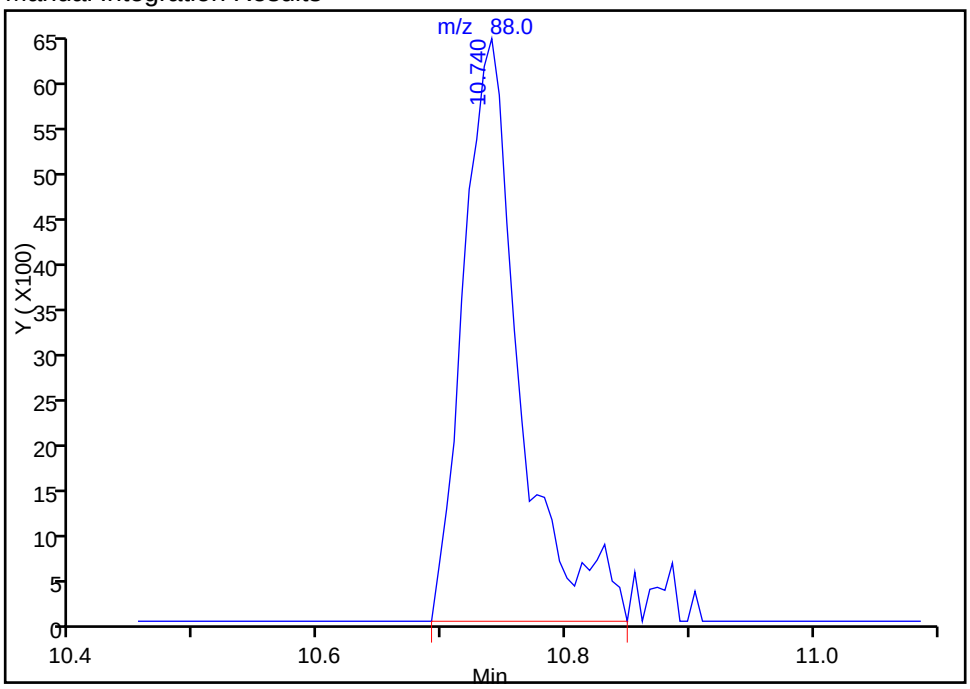
Processing Integration Results

RT: 10.74
Area: 20253
Amount: 198.7125
Amount Units: ug/L



Manual Integration Results

RT: 10.74
Area: 20389
Amount: 198.3068
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:06:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7355.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 20-Jun-2016 00:34:30 ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0054167-008
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:39 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 10:52:48

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	9.852	9.852	0.000	98	136122	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	84	275026	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	75	328607	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	79	193147	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.487	0.000	0	121281	25.0	25.0	
$ 5 Toluene-d8 (Surr)	98	11.835	11.835	0.000	94	662537	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	94	253803	25.0	25.4	
10 Dichlorodifluoromethane	85	4.005	4.005	0.000	86	283829	25.0	23.1	
11 Chloromethane	50	4.322	4.322	0.000	88	208739	25.0	22.7	
17 Vinyl chloride	62	4.541	4.541	0.000	83	173439	25.0	22.4	
144 Butadiene	54	4.565	4.565	0.000	94	163642	25.0	23.8	
12 Bromomethane	94	5.100	5.100	0.000	90	144869	25.0	25.6	
13 Chloroethane	64	5.228	5.228	0.000	92	144813	25.0	24.6	
19 Dichlorofluoromethane	67	5.514	5.514	0.000	83	406194	25.0	23.7	
14 Trichlorofluoromethane	101	5.636	5.636	0.000	84	410675	25.0	23.6	
20 Ethyl ether	59	5.928	5.928	0.000	96	236822	25.0	24.8	
22 Acrolein	56	6.183	6.183	0.000	92	352724	125.0	128.8	
16 1,1,2-Trichloro-1,2,2-trif	101	6.269	6.269	0.000	78	239624	25.0	23.6	
25 1,1-Dichloroethene	96	6.317	6.317	0.000	84	220771	25.0	24.5	
24 Acetone	43	6.360	6.360	0.000	98	605076	125.0	129.6	
18 Iodomethane	142	6.585	6.585	0.000	99	424157	25.0	24.6	
27 Carbon disulfide	76	6.700	6.700	0.000	100	685653	25.0	23.5	
30 Methyl acetate	43	6.737	6.737	0.000	99	1568216	125.0	122.2	
28 3-Chloro-1-propene	41	6.767	6.767	0.000	62	406711	25.0	24.5	
31 Methylene Chloride	84	6.938	6.938	0.000	92	234442	25.0	26.1	
33 2-Methyl-2-propanol	59	6.968	6.968	0.000	97	489202	250.0	262.8	
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	92	764295	25.0	24.6	
34 Acrylonitrile	53	7.236	7.236	0.000	99	1529577	250.0	247.5	
35 trans-1,2-Dichloroethene	96	7.260	7.260	0.000	90	230992	25.0	24.0	
36 Hexane	57	7.497	7.497	0.000	94	349025	25.0	23.8	

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	7.735	7.735	0.000	97	1266921	50.0	53.2	
40 1,1-Dichloroethane	63	7.789	7.789	0.000	85	451935	25.0	24.5	
44 2-Butanone (MEK)	43	8.434	8.434	0.000	99	991469	125.0	127.8	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	69	260459	25.0	24.2	
45 2,2-Dichloropropane	77	8.489	8.489	0.000	59	349034	25.0	24.7	
50 Chlorobromomethane	128	8.805	8.805	0.000	92	135476	25.0	24.3	
51 Tetrahydrofuran	42	8.830	8.830	0.000	82	267416	50.0	55.0	
49 Chloroform	83	8.836	8.836	0.000	83	413644	25.0	24.2	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	89	385956	25.0	24.2	
54 Cyclohexane	56	9.170	9.170	0.000	93	454433	25.0	24.6	
53 Isobutyl alcohol	43	9.249	9.249	0.000	79	434157	625.0	703.1	
56 1,1-Dichloropropene	75	9.274	9.274	0.000	88	313082	25.0	24.3	
55 Carbon tetrachloride	117	9.304	9.304	0.000	81	350368	25.0	25.2	
57 Benzene	78	9.554	9.554	0.000	96	880781	25.0	23.8	
60 1,2-Dichloroethane	62	9.578	9.578	0.000	85	398403	25.0	24.4	
59 n-Heptane	43	9.675	9.675	0.000	93	323847	25.0	26.3	
62 Trichloroethene	95	10.302	10.302	0.000	90	246825	25.0	24.5	
64 Methylcyclohexane	83	10.545	10.545	0.000	95	374446	25.0	24.6	
63 1,2-Dichloropropane	63	10.618	10.618	0.000	79	238338	25.0	24.9	
68 1,4-Dioxane	88	10.734	10.734	0.000	89	58687	500.0	564.7	M
69 Dibromomethane	93	10.807	10.807	0.000	86	172113	25.0	24.5	
70 Dichlorobromomethane	83	10.941	10.941	0.000	89	299114	25.0	25.5	
71 2-Chloroethyl vinyl ether	63	11.202	11.202	0.000	92	183626	25.0	26.8	
73 cis-1,3-Dichloropropene	75	11.482	11.482	0.000	88	368401	25.0	26.0	
75 4-Methyl-2-pentanone (MIBK	43	11.586	11.586	0.000	98	2002085	125.0	133.1	
76 Toluene	92	11.920	11.920	0.000	92	583888	25.0	26.7	
77 Ethyl methacrylate	69	12.151	12.151	0.000	89	322437	25.0	28.5	
78 trans-1,3-Dichloropropene	75	12.182	12.182	0.000	93	359722	25.0	26.9	
79 1,1,2-Trichloroethane	83	12.462	12.462	0.000	88	179143	25.0	24.5	
80 Tetrachloroethene	166	12.668	12.668	0.000	39	270511	25.0	24.3	
83 2-Hexanone	43	12.675	12.675	0.000	97	1418850	125.0	135.1	
82 1,3-Dichloropropane	76	12.705	12.705	0.000	97	366596	25.0	25.0	
81 Chlorodibromomethane	129	13.046	13.046	0.000	86	249016	25.0	26.9	
85 Ethylene Dibromide	107	13.246	13.246	0.000	97	244873	25.0	26.2	
87 Chlorobenzene	112	13.836	13.836	0.000	94	697484	25.0	24.2	
89 Ethylbenzene	91	13.897	13.897	0.000	58	1102673	25.0	25.0	
88 1,1,1,2-Tetrachloroethane	131	13.916	13.916	0.000	50	249516	25.0	26.2	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	422465	25.0	25.8	
93 o-Xylene	106	14.591	14.591	0.000	94	433600	25.0	26.1	
94 Styrene	104	14.609	14.609	0.000	93	674304	25.0	27.2	
92 Bromoform	173	14.962	14.962	0.000	94	195476	25.0	26.8	
95 Isopropylbenzene	105	15.029	15.029	0.000	95	1099811	25.0	25.8	
97 1,1,2,2-Tetrachloroethane	83	15.455	15.455	0.000	90	351392	25.0	25.3	
98 trans-1,4-Dichloro-2-buten	53	15.509	15.509	0.000	83	147256	25.0	26.6	
101 1,2,3-Trichloropropane	110	15.546	15.546	0.000	56	111434	25.0	27.1	
100 Bromobenzene	156	15.552	15.552	0.000	69	327855	25.0	25.4	
99 N-Propylbenzene	91	15.564	15.564	0.000	96	1342686	25.0	25.5	
103 2-Chlorotoluene	126	15.753	15.753	0.000	93	276100	25.0	25.0	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	88	941612	25.0	26.1	
105 4-Chlorotoluene	126	15.881	15.881	0.000	98	288880	25.0	25.4	
106 tert-Butylbenzene	134	16.197	16.197	0.000	86	215117	25.0	25.7	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	63	999159	25.0	26.5	

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	16.465	16.465	0.000	94	1205453	25.0	26.1	
112 4-Isopropyltoluene	119	16.617	16.617	0.000	94	1092388	25.0	26.5	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	97	586672	25.0	24.5	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	594339	25.0	24.5	
115 n-Butylbenzene	91	17.134	17.134	0.000	95	974031	25.0	25.8	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	96	604627	25.0	24.7	
117 1,2-Dibromo-3-Chloropropan	75	18.271	18.271	0.000	78	92979	25.0	26.5	
119 1,2,4-Trichlorobenzene	180	19.354	19.354	0.000	92	510877	25.0	25.2	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	91	229814	25.0	24.6	
121 Naphthalene	128	19.750	19.750	0.000	97	1447573	25.0	26.8	
122 1,2,3-Trichlorobenzene	180	20.109	20.109	0.000	93	500417	25.0	25.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00076	Amount Added: 12.50	Units: uL	
GAS CORP mix_00161	Amount Added: 12.50	Units: uL	
P 8260 IS_00149	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00184	Amount Added: 1.25	Units: uL	Run Reagent

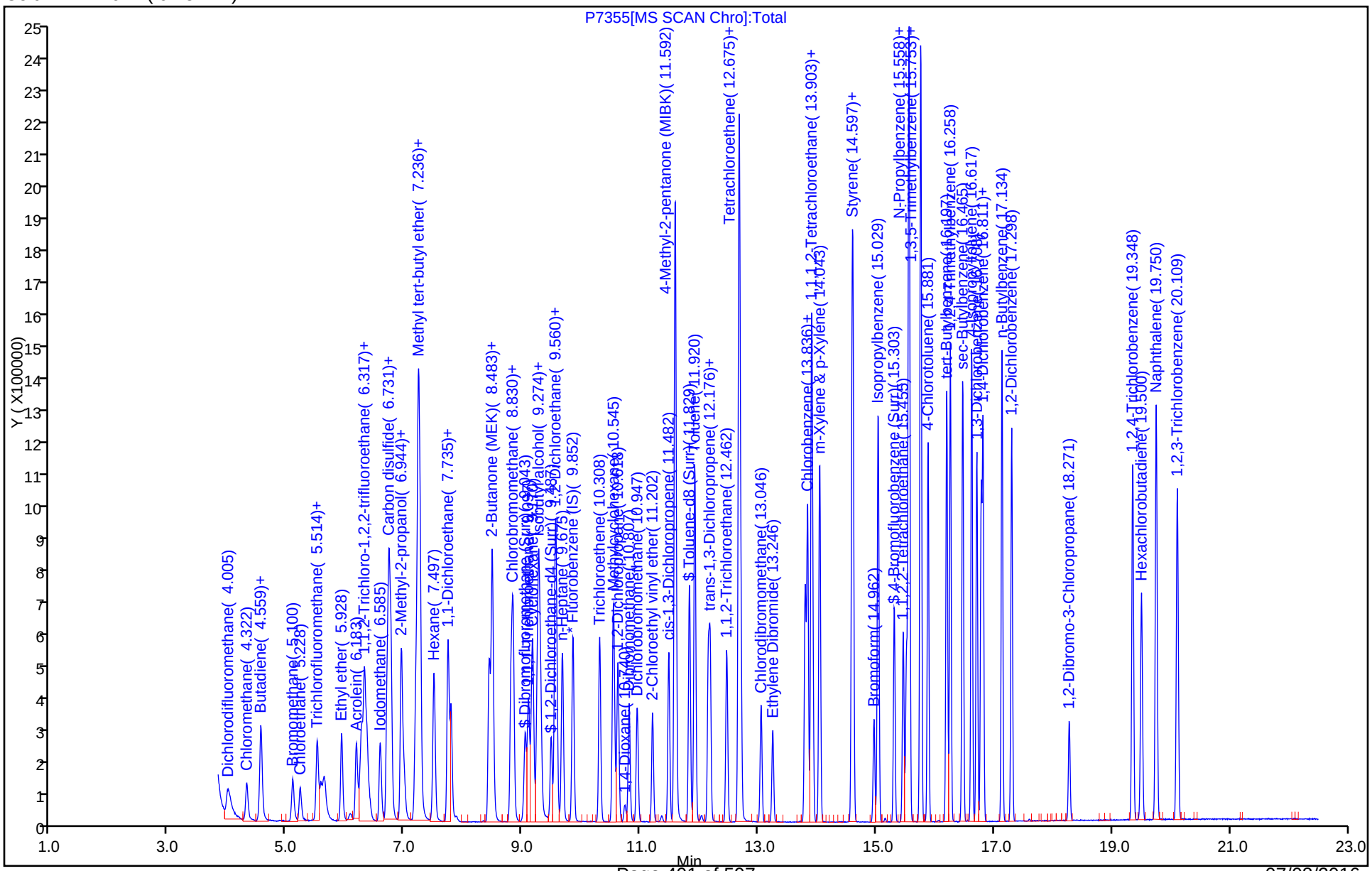
Report Date: 20-Jun-2016 12:36:40 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7355.D

Injection Date:	20-Jun-2016 00:34:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	ICIS 5			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

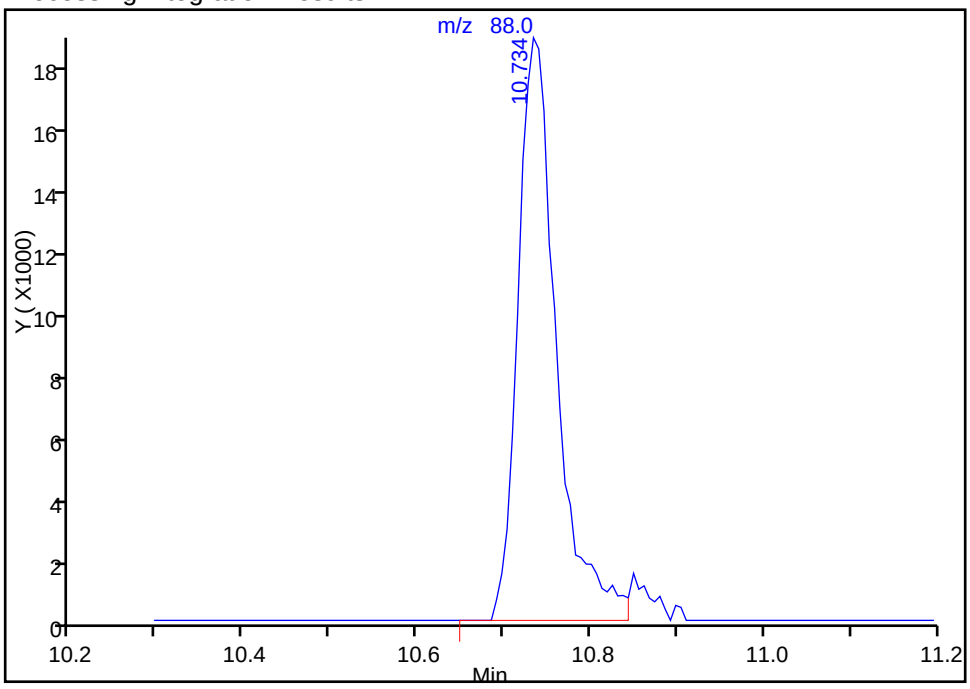
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7355.D
Injection Date: 20-Jun-2016 00:34:30 Instrument ID: HP5973P
Lims ID: ICIS 5
Client ID:
Operator ID: NMD ALS Bottle#: 10 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

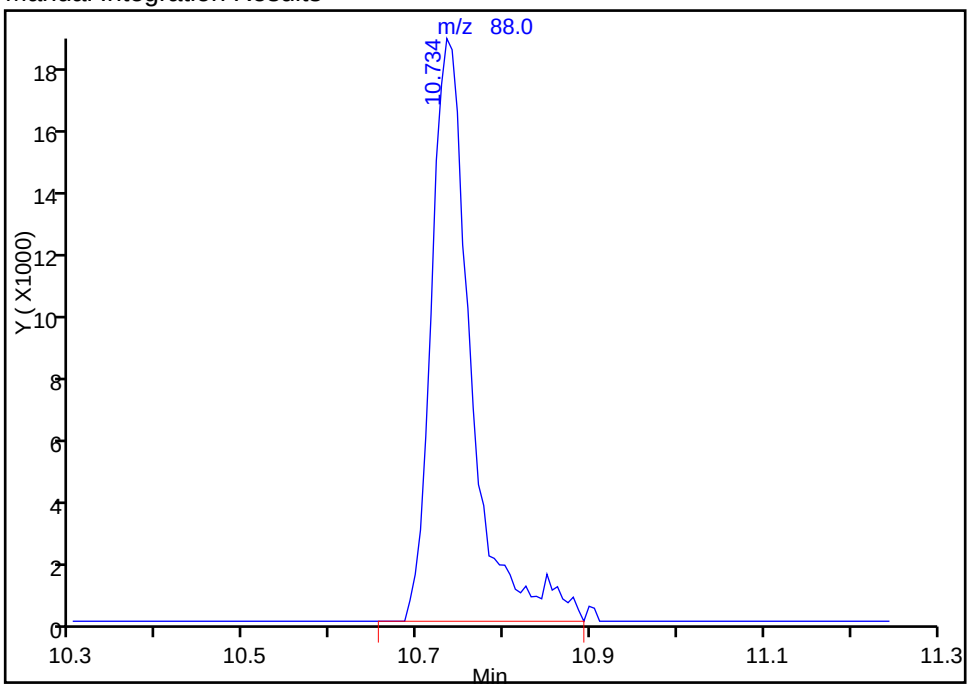
Processing Integration Results

RT: 10.73
Area: 56518
Amount: 552.4355
Amount Units: ug/L



Manual Integration Results

RT: 10.73
Area: 58687
Amount: 564.6561
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:06:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7356.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Jun-2016 01:02:30 ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0054167-009
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:42 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:08:26

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	9.852	9.852	0.000	99	137256	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	85	283040	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	330020	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	96	195941	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.487	0.000	0	120476	25.0	24.6	
$ 5 Toluene-d8 (Surr)	98	11.835	11.835	0.000	93	672521	25.0	24.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	95	260970	25.0	25.3	
10 Dichlorodifluoromethane	85	3.999	4.005	-0.006	99	585351	50.0	47.2	
11 Chloromethane	50	4.322	4.322	0.000	99	420805	50.0	45.3	
17 Vinyl chloride	62	4.541	4.541	0.000	98	362375	50.0	46.5	
144 Butadiene	54	4.571	4.565	0.006	92	336597	50.0	48.5	
12 Bromomethane	94	5.100	5.100	0.000	92	311087	50.0	54.4	
13 Chloroethane	64	5.228	5.228	0.000	97	275024	50.0	46.3	
19 Dichlorofluoromethane	67	5.514	5.514	0.000	97	799370	50.0	46.3	
14 Trichlorofluoromethane	101	5.624	5.636	-0.012	98	845877	50.0	48.2	
20 Ethyl ether	59	5.928	5.928	0.000	97	458566	50.0	47.7	
22 Acrolein	56	6.177	6.183	-0.006	99	690284	250.0	250.0	
16 1,1,2-Trichloro-1,2,2-trif	101	6.268	6.269	-0.001	90	474836	50.0	46.4	
25 1,1-Dichloroethene	96	6.317	6.317	0.000	94	423862	50.0	46.7	
24 Acetone	43	6.354	6.360	-0.006	99	1078504	250.0	229.1	
18 Iodomethane	142	6.579	6.585	-0.006	99	824600	50.0	47.3	
27 Carbon disulfide	76	6.694	6.700	-0.006	100	1369973	50.0	46.5	
30 Methyl acetate	43	6.731	6.737	-0.006	99	2898469	250.0	224.0	
28 3-Chloro-1-propene	41	6.767	6.767	0.000	84	759301	50.0	45.4	
31 Methylene Chloride	84	6.938	6.938	0.000	97	451675	50.0	50.5	
33 2-Methyl-2-propanol	59	6.962	6.968	-0.006	100	854451	500.0	455.3	M
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	97	1503715	50.0	48.0	
34 Acrylonitrile	53	7.230	7.236	-0.006	99	2783394	500.0	446.7	
35 trans-1,2-Dichloroethene	96	7.260	7.260	0.000	95	442918	50.0	45.6	
36 Hexane	57	7.491	7.497	-0.006	93	672325	50.0	45.4	

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	7.735	7.735	0.000	97	2472258	100.0	103.0	
40 1,1-Dichloroethane	63	7.783	7.789	-0.006	96	857930	50.0	46.2	
44 2-Butanone (MEK)	43	8.434	8.434	0.000	99	1845878	250.0	236.0	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	85	500642	50.0	46.1	
45 2,2-Dichloropropane	77	8.489	8.489	0.000	62	680416	50.0	47.7	
50 Chlorobromomethane	128	8.805	8.805	0.000	97	264669	50.0	47.1	
51 Tetrahydrofuran	42	8.830	8.830	0.000	91	495765	100.0	101.7	
49 Chloroform	83	8.842	8.836	0.006	95	792581	50.0	46.1	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	98	775331	50.0	48.2	
54 Cyclohexane	56	9.170	9.170	0.000	93	898201	50.0	48.3	M
53 Isobutyl alcohol	43	9.249	9.249	0.000	96	772962	1250.0	1235.4	
56 1,1-Dichloropropene	75	9.274	9.274	0.000	93	610303	50.0	47.1	
55 Carbon tetrachloride	117	9.304	9.304	0.000	96	707383	50.0	50.5	
57 Benzene	78	9.554	9.554	0.000	98	1698931	50.0	45.6	
60 1,2-Dichloroethane	62	9.578	9.578	0.000	98	760083	50.0	46.2	
59 n-Heptane	43	9.675	9.675	0.000	94	633199	50.0	51.6	
62 Trichloroethene	95	10.308	10.302	0.006	95	494002	50.0	48.6	
64 Methylcyclohexane	83	10.539	10.545	-0.006	94	749974	50.0	48.8	
63 1,2-Dichloropropane	63	10.618	10.618	0.000	94	468753	50.0	48.6	
68 1,4-Dioxane	88	10.734	10.734	0.000	99	101015	1000.0	944.4	M
69 Dibromomethane	93	10.807	10.807	0.000	93	343986	50.0	48.6	
70 Dichlorobromomethane	83	10.947	10.941	0.006	98	610106	50.0	51.5	
71 2-Chloroethyl vinyl ether	63	11.202	11.202	0.000	93	364723	50.0	52.8	
73 cis-1,3-Dichloropropene	75	11.476	11.482	-0.006	93	742863	50.0	52.0	
75 4-Methyl-2-pentanone (MIBK	43	11.592	11.586	0.006	97	3651839	250.0	235.9	
76 Toluene	92	11.920	11.920	0.000	98	1131242	50.0	50.6	
77 Ethyl methacrylate	69	12.151	12.151	0.000	91	654943	50.0	56.2	
78 trans-1,3-Dichloropropene	75	12.182	12.182	0.000	96	701257	50.0	50.9	
79 1,1,2-Trichloroethane	83	12.462	12.462	0.000	92	352844	50.0	46.8	
80 Tetrachloroethene	166	12.668	12.668	0.000	96	513683	50.0	44.9	
83 2-Hexanone	43	12.674	12.675	-0.001	97	2528270	250.0	233.9	
82 1,3-Dichloropropane	76	12.705	12.705	0.000	96	682080	50.0	45.3	
81 Chlorodibromomethane	129	13.046	13.046	0.000	90	521170	50.0	54.8	
85 Ethylene Dibromide	107	13.246	13.246	0.000	98	480320	50.0	49.9	
87 Chlorobenzene	112	13.836	13.836	0.000	95	1352795	50.0	45.6	
89 Ethylbenzene	91	13.903	13.897	0.006	99	2129394	50.0	46.9	
88 1,1,1,2-Tetrachloroethane	131	13.922	13.916	0.006	94	499085	50.0	50.9	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	822285	50.0	48.8	
93 o-Xylene	106	14.591	14.591	0.000	98	839633	50.0	49.2	
94 Styrene	104	14.609	14.609	0.000	95	1306540	50.0	51.3	
92 Bromoform	173	14.962	14.962	0.000	97	423727	50.0	56.4	
95 Isopropylbenzene	105	15.035	15.029	0.006	96	2158899	50.0	50.5	
97 1,1,2,2-Tetrachloroethane	83	15.455	15.455	0.000	97	685335	50.0	49.1	
98 trans-1,4-Dichloro-2-buten	53	15.509	15.509	0.000	88	292365	50.0	52.7	
101 1,2,3-Trichloropropane	110	15.552	15.546	0.006	77	203625	50.0	49.2	
100 Bromobenzene	156	15.552	15.552	0.000	92	631254	50.0	48.7	
99 N-Propylbenzene	91	15.564	15.564	0.000	99	2542190	50.0	48.0	
103 2-Chlorotoluene	126	15.753	15.753	0.000	95	516144	50.0	46.6	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	1816252	50.0	50.0	
105 4-Chlorotoluene	126	15.881	15.881	-0.001	98	551048	50.0	48.2	
106 tert-Butylbenzene	134	16.197	16.197	0.000	92	436564	50.0	52.0	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	1933159	50.0	51.1	

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	16.465	16.465	0.000	95	2367963	50.0	51.0	
112 4-Isopropyltoluene	119	16.623	16.617	0.006	96	2137617	50.0	51.7	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	98	1143706	50.0	47.5	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	1134978	50.0	46.5	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	1917336	50.0	50.7	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	1174560	50.0	47.9	
117 1,2-Dibromo-3-Chloropropan	75	18.271	18.271	0.000	87	184981	50.0	52.6	
119 1,2,4-Trichlorobenzene	180	19.348	19.354	-0.006	94	1023973	50.0	50.3	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	94	471876	50.0	50.2	
121 Naphthalene	128	19.750	19.750	0.000	97	2844829	50.0	52.4	
122 1,2,3-Trichlorobenzene	180	20.109	20.109	0.000	95	997102	50.0	50.4	
S 123 1,2-Dichloroethene, Total	1				0			91.7	
S 124 1,3-Dichloropropene, Total	1				0			102.9	
S 125 Total BTEX	1				0			241.2	
S 126 Xylenes, Total	1				0			98.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00076	Amount Added:	25.00	Units: uL	
GAS CORP mix_00161	Amount Added:	25.00	Units: uL	
P 8260 IS_00149	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00184	Amount Added:	1.25	Units: uL	Run Reagent

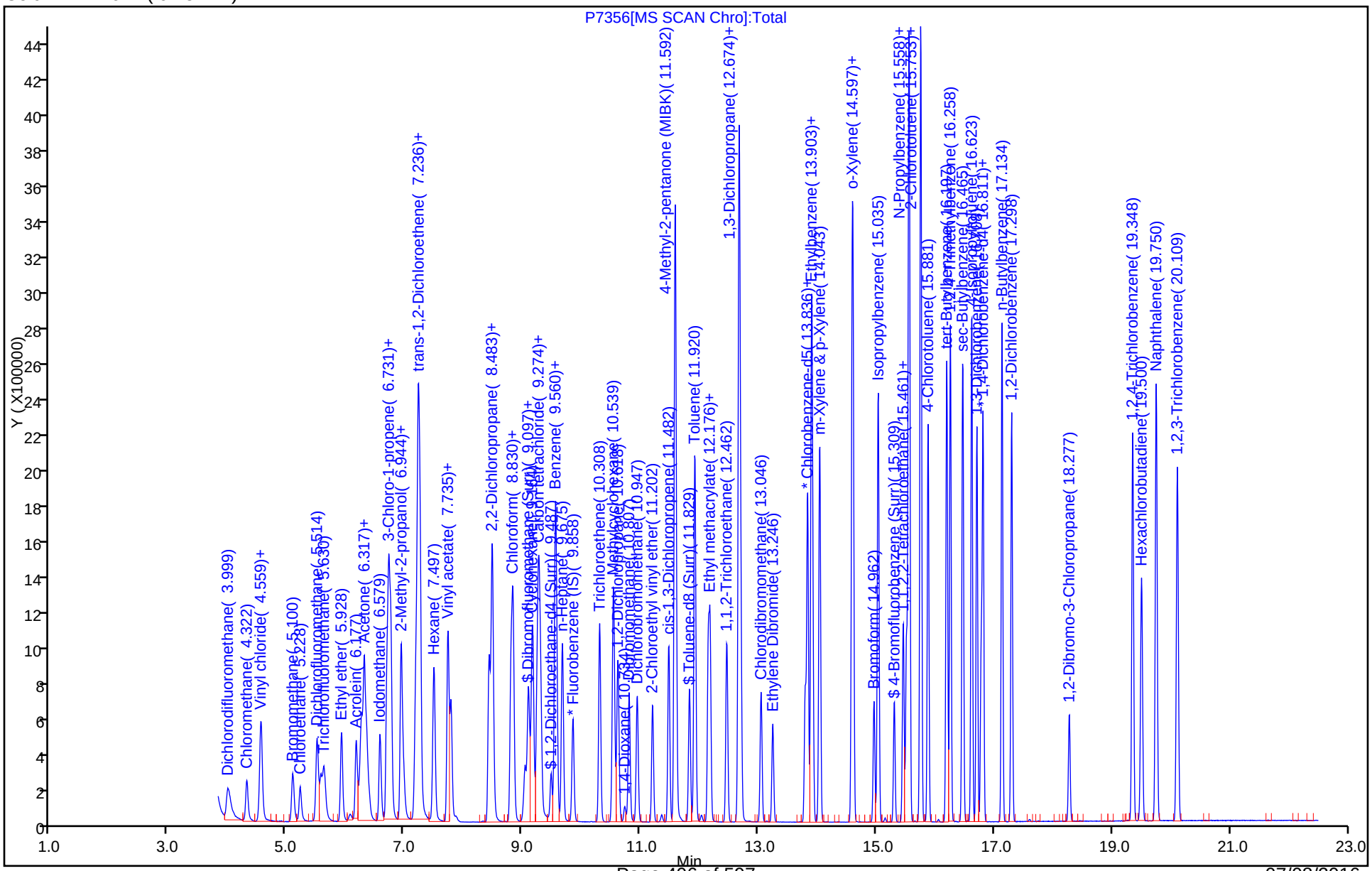
Report Date: 20-Jun-2016 12:36:43 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7356.D

Injection Date:	20-Jun-2016 01:02:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC 6			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

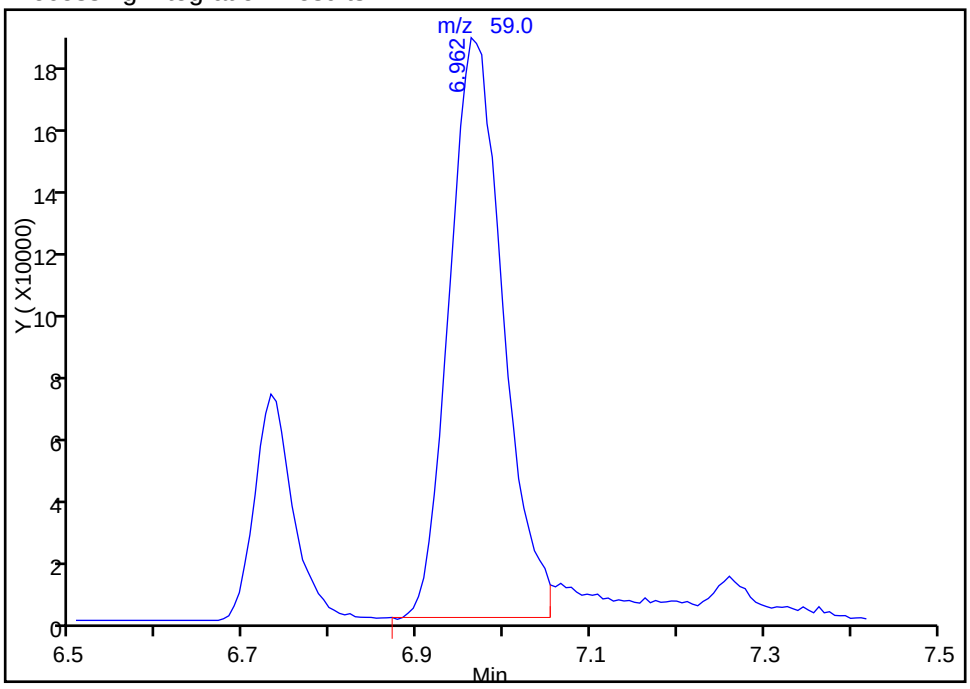
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7356.D
Injection Date: 20-Jun-2016 01:02:30 Instrument ID: HP5973P
Lims ID: IC 6
Client ID:
Operator ID: NMD ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

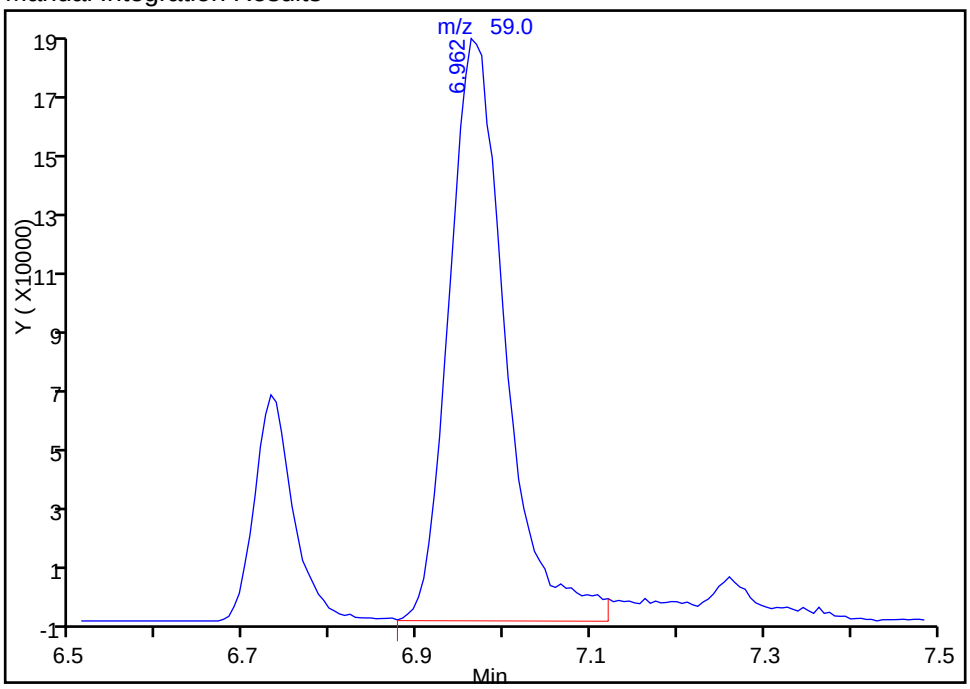
Processing Integration Results

RT: 6.96
Area: 807476
Amount: 435.6925
Amount Units: ug/L



Manual Integration Results

RT: 6.96
Area: 854451
Amount: 455.2546
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:18:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

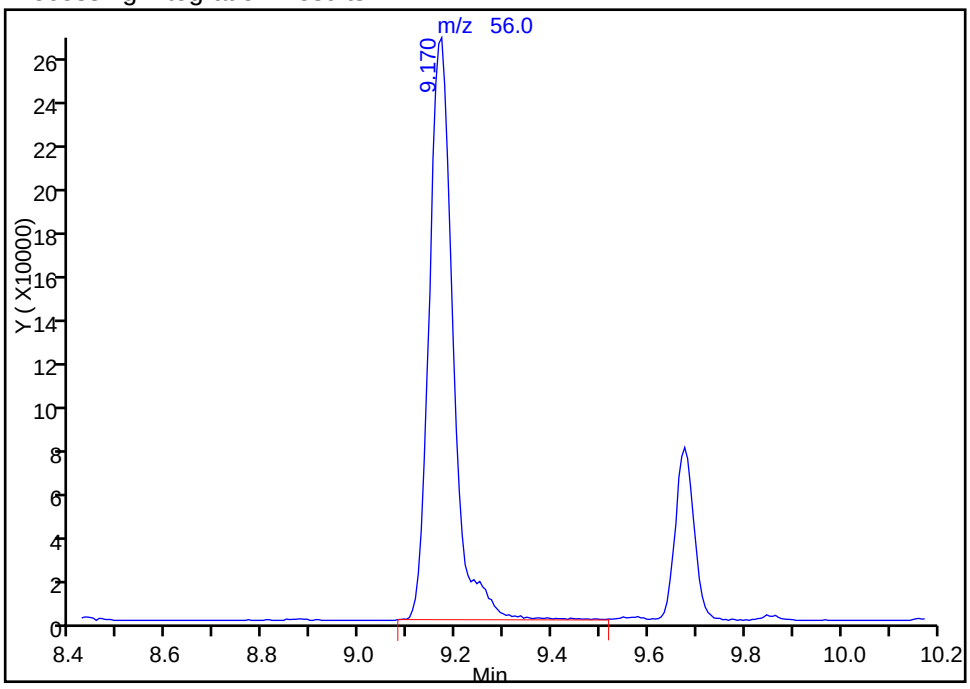
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7356.D
Injection Date: 20-Jun-2016 01:02:30 Instrument ID: HP5973P
Lims ID: IC 6
Client ID:
Operator ID: NMD ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

54 Cyclohexane, CAS: 110-82-7

Signal: 1

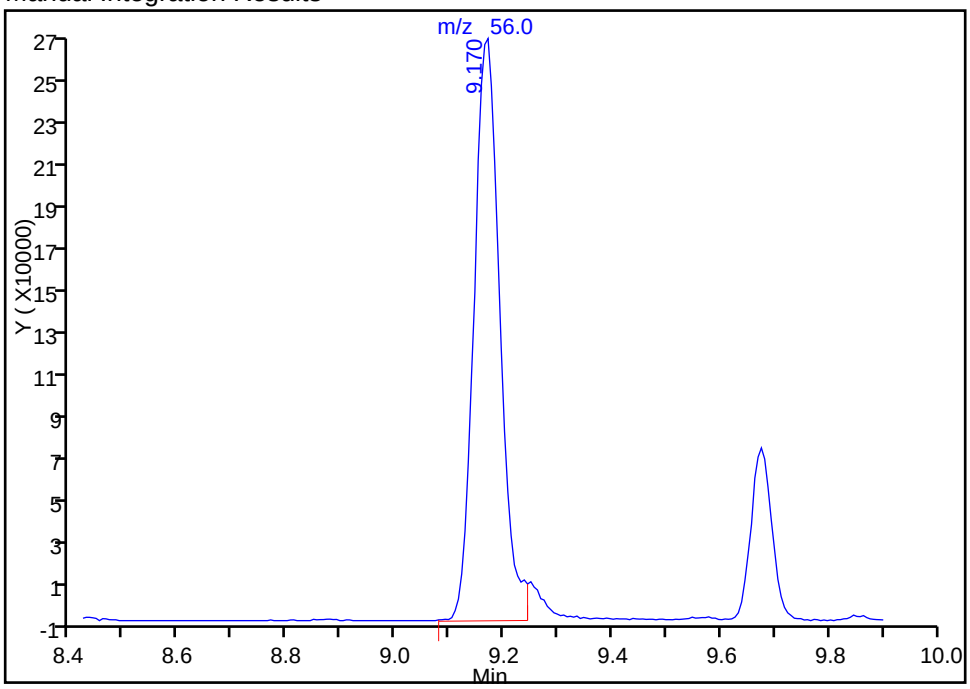
Processing Integration Results

RT: 9.17
Area: 934552
Amount: 49.498024
Amount Units: ug/L



Manual Integration Results

RT: 9.17
Area: 898201
Amount: 48.313224
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:08:26
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

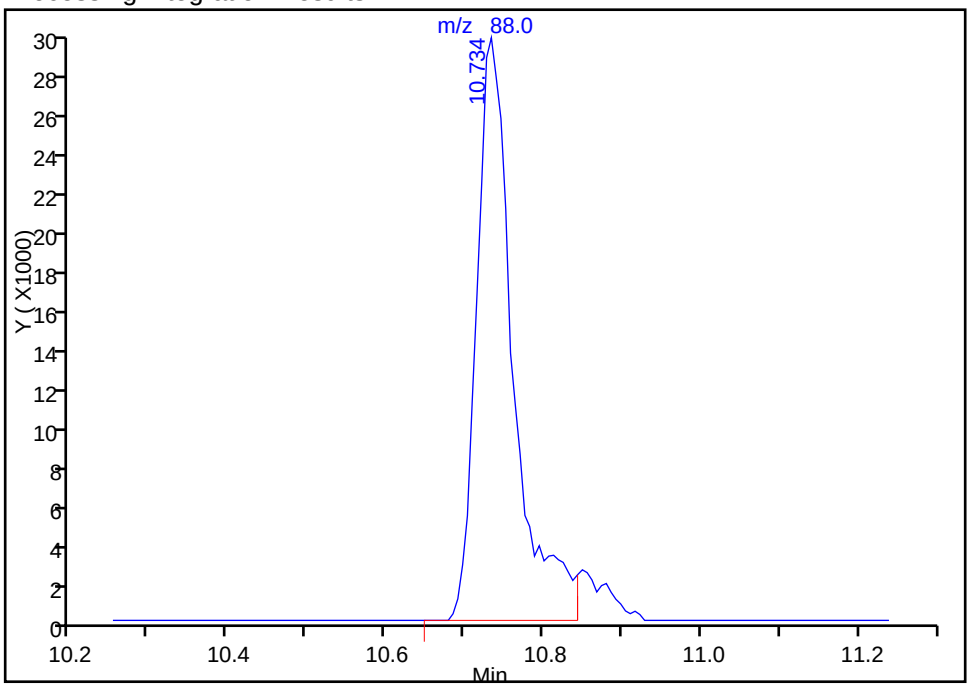
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7356.D
Injection Date: 20-Jun-2016 01:02:30 Instrument ID: HP5973P
Lims ID: IC 6
Client ID:
Operator ID: NMD ALS Bottle#: 11 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

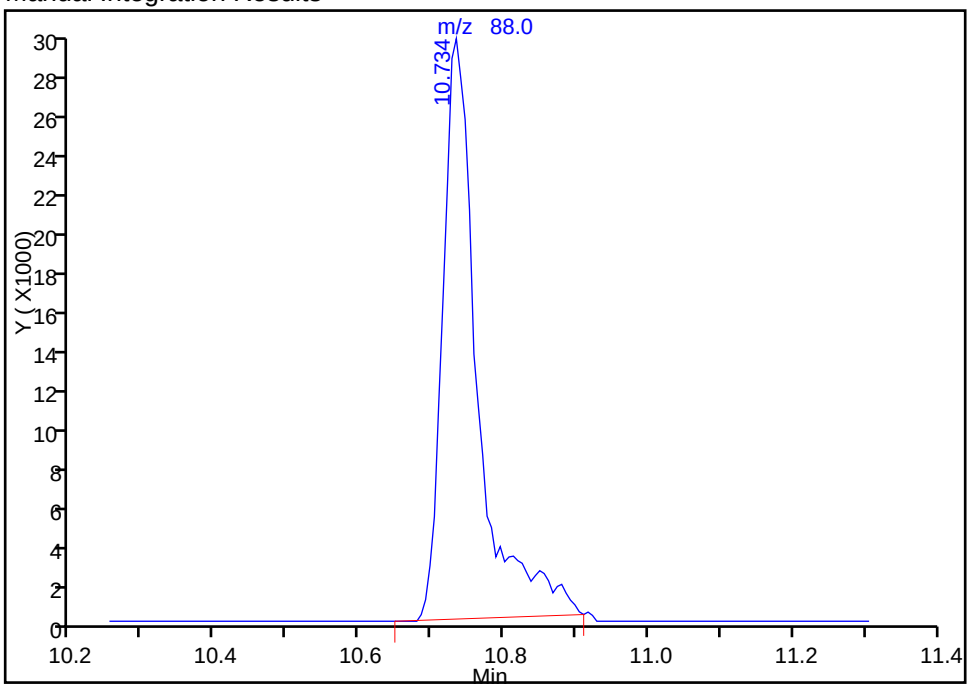
Processing Integration Results

RT: 10.73
Area: 97771
Amount: 921.0639
Amount Units: ug/L



Manual Integration Results

RT: 10.73
Area: 101015
Amount: 944.3955
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:08:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7357.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Jun-2016 01:29:30 ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0054167-010
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:45 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:10:01

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	9.851	9.852	-0.001	99	139442	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	85	289957	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	360415	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.043	-0.001	94	199049	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.486	9.487	-0.001	0	122427	25.0	24.6	
$ 5 Toluene-d8 (Surr)	98	11.829	11.835	-0.006	93	686061	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	94	266617	25.0	25.3	
10 Dichlorodifluoromethane	85	4.005	4.005	0.000	99	1146832	100.0	91.1	
11 Chloromethane	50	4.328	4.322	0.006	99	852155	100.0	90.4	
17 Vinyl chloride	62	4.547	4.541	0.006	98	739336	100.0	93.3	
144 Butadiene	54	4.571	4.565	0.006	91	676225	100.0	95.8	
12 Bromomethane	94	5.106	5.100	0.006	93	595346	100.0	102.5	
13 Chloroethane	64	5.228	5.228	0.000	98	574510	100.0	95.1	
19 Dichlorofluoromethane	67	5.514	5.514	0.000	97	1629448	100.0	92.8	
14 Trichlorofluoromethane	101	5.623	5.636	-0.013	98	1658456	100.0	93.0	
20 Ethyl ether	59	5.928	5.928	0.000	96	883242	100.0	90.5	
22 Acrolein	56	6.177	6.183	-0.006	100	1325468	500.0	472.5	
16 1,1,2-Trichloro-1,2,2-trif	101	6.268	6.269	-0.001	89	901788	100.0	86.7	
25 1,1-Dichloroethene	96	6.311	6.317	-0.006	95	813103	100.0	88.2	
24 Acetone	43	6.353	6.360	-0.007	99	2103269	500.0	439.7	
18 Iodomethane	142	6.578	6.585	-0.007	99	1634763	100.0	92.4	
27 Carbon disulfide	76	6.694	6.700	-0.006	100	2596979	100.0	86.8	
30 Methyl acetate	43	6.731	6.737	-0.006	99	5323606	500.0	404.9	
28 3-Chloro-1-propene	41	6.767	6.767	0.000	81	1403983	100.0	82.6	
31 Methylene Chloride	84	6.937	6.938	-0.001	99	879489	100.0	97.4	
33 2-Methyl-2-propanol	59	6.968	6.968	0.000	99	1802532	1000.0	945.3	M
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	97	2920225	100.0	91.8	
34 Acrylonitrile	53	7.229	7.236	-0.007	98	5044072	1000.0	796.9	
35 trans-1,2-Dichloroethene	96	7.260	7.260	0.000	95	822847	100.0	83.4	
36 Hexane	57	7.497	7.497	0.000	92	1312246	100.0	87.3	

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	7.734	7.735	-0.001	97	4650902	200.0	190.7	
40 1,1-Dichloroethane	63	7.789	7.789	0.000	97	1664022	100.0	88.2	
44 2-Butanone (MEK)	43	8.428	8.434	-0.006	99	3579492	500.0	450.4	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	84	963069	100.0	87.2	
45 2,2-Dichloropropane	77	8.489	8.489	0.000	63	1320358	100.0	91.0	
50 Chlorobromomethane	128	8.799	8.805	-0.006	97	511560	100.0	89.6	
51 Tetrahydrofuran	42	8.823	8.830	-0.007	88	942194	200.0	190.8	
49 Chloroform	83	8.842	8.836	0.006	95	1543221	100.0	88.3	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	99	1533519	100.0	93.8	
54 Cyclohexane	56	9.164	9.170	-0.006	92	1714433	100.0	90.8	M
53 Isobutyl alcohol	43	9.243	9.249	-0.006	95	1580980	2500.0	2479.3	
56 1,1-Dichloropropene	75	9.274	9.274	0.000	94	1164839	100.0	88.4	
55 Carbon tetrachloride	117	9.304	9.304	0.000	96	1375788	100.0	96.7	
57 Benzene	78	9.553	9.554	-0.001	98	3295203	100.0	87.0	
60 1,2-Dichloroethane	62	9.578	9.578	0.000	98	1478484	100.0	88.5	
59 n-Heptane	43	9.675	9.675	0.000	93	1191829	100.0	96.3	
62 Trichloroethene	95	10.308	10.302	0.006	94	973297	100.0	94.2	
64 Methylcyclohexane	83	10.539	10.545	-0.006	94	1462585	100.0	93.8	
63 1,2-Dichloropropane	63	10.618	10.618	0.000	95	910911	100.0	92.9	
68 1,4-Dioxane	88	10.734	10.734	0.000	97	189057	2000.0	1725.3	M
69 Dibromomethane	93	10.807	10.807	0.000	92	672184	100.0	93.6	
70 Dichlorobromomethane	83	10.946	10.941	0.005	98	1239111	100.0	103.0	
71 2-Chloroethyl vinyl ether	63	11.202	11.202	0.000	93	748143	100.0	106.5	
73 cis-1,3-Dichloropropene	75	11.482	11.482	0.000	96	1499306	100.0	103.4	
75 4-Methyl-2-pentanone (MIBK	43	11.591	11.586	0.005	97	6454551	500.0	407.1	
76 Toluene	92	11.920	11.920	0.000	98	2209900	100.0	96.9	
77 Ethyl methacrylate	69	12.151	12.151	0.000	91	1294508	100.0	108.5	
78 trans-1,3-Dichloropropene	75	12.181	12.182	-0.001	97	1392436	100.0	98.6	
79 1,1,2-Trichloroethane	83	12.461	12.462	-0.001	92	704942	100.0	91.3	
80 Tetrachloroethene	166	12.668	12.668	0.000	98	989430	100.0	84.5	
83 2-Hexanone	43	12.674	12.675	-0.001	96	4357381	500.0	393.5	
82 1,3-Dichloropropane	76	12.705	12.705	0.000	97	1274373	100.0	82.5	
81 Chlorodibromomethane	129	13.045	13.046	-0.001	90	1079880	100.0	110.7	
85 Ethylene Dibromide	107	13.246	13.246	0.000	98	971124	100.0	98.4	
87 Chlorobenzene	112	13.836	13.836	0.000	96	2643557	100.0	87.0	
89 Ethylbenzene	91	13.897	13.897	0.000	98	4038139	100.0	86.9	
88 1,1,1,2-Tetrachloroethane	131	13.921	13.916	0.005	94	969460	100.0	96.6	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	1598645	100.0	92.7	
93 o-Xylene	106	14.591	14.591	0.000	98	1587893	100.0	90.8	
94 Styrene	104	14.609	14.609	0.000	95	2533301	100.0	97.1	
92 Bromoform	173	14.962	14.962	0.000	98	895965	100.0	116.4	
95 Isopropylbenzene	105	15.035	15.029	0.006	96	4200886	100.0	90.0	
97 1,1,2,2-Tetrachloroethane	83	15.454	15.455	-0.001	97	1370311	100.0	89.9	
98 trans-1,4-Dichloro-2-buten	53	15.509	15.509	0.000	86	571362	100.0	94.2	
101 1,2,3-Trichloropropane	110	15.546	15.546	0.000	64	387935	100.0	85.9	
100 Bromobenzene	156	15.552	15.552	0.000	90	1218097	100.0	86.0	
99 N-Propylbenzene	91	15.570	15.564	0.006	98	4857346	100.0	84.0	
103 2-Chlorotoluene	126	15.753	15.753	-0.001	95	1061977	100.0	87.8	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	94	3725093	100.0	94.0	
105 4-Chlorotoluene	126	15.880	15.881	-0.001	98	1169479	100.0	93.6	
106 tert-Butylbenzene	134	16.197	16.197	0.000	92	892929	100.0	97.4	
107 1,2,4-Trimethylbenzene	105	16.257	16.258	-0.001	97	4016919	100.0	97.2	

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	16.464	16.465	-0.001	94	4847632	100.0	95.6	
112 4-Isopropyltoluene	119	16.622	16.617	0.005	96	4450928	100.0	98.6	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	98	2416517	100.0	91.9	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	2443250	100.0	91.7	
115 n-Butylbenzene	91	17.133	17.134	-0.001	97	3898619	100.0	94.3	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	2479162	100.0	92.5	
117 1,2-Dibromo-3-Chloropropan	75	18.271	18.271	0.000	89	401487	100.0	104.4	
119 1,2,4-Trichlorobenzene	180	19.354	19.354	0.000	94	2155994	100.0	97.0	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	94	993241	100.0	96.8	
121 Naphthalene	128	19.749	19.750	-0.001	97	5906942	100.0	99.7	
122 1,2,3-Trichlorobenzene	180	20.108	20.109	-0.001	95	2118683	100.0	98.0	
S 123 1,2-Dichloroethene, Total	1				0			170.6	
S 124 1,3-Dichloropropene, Total	1				0			202.0	
S 125 Total BTEX	1				0			454.3	
S 126 Xylenes, Total	1				0			183.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00076	Amount Added:	50.00	Units: uL	
GAS CORP mix_00161	Amount Added:	50.00	Units: uL	
P 8260 IS_00149	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00184	Amount Added:	1.25	Units: uL	Run Reagent

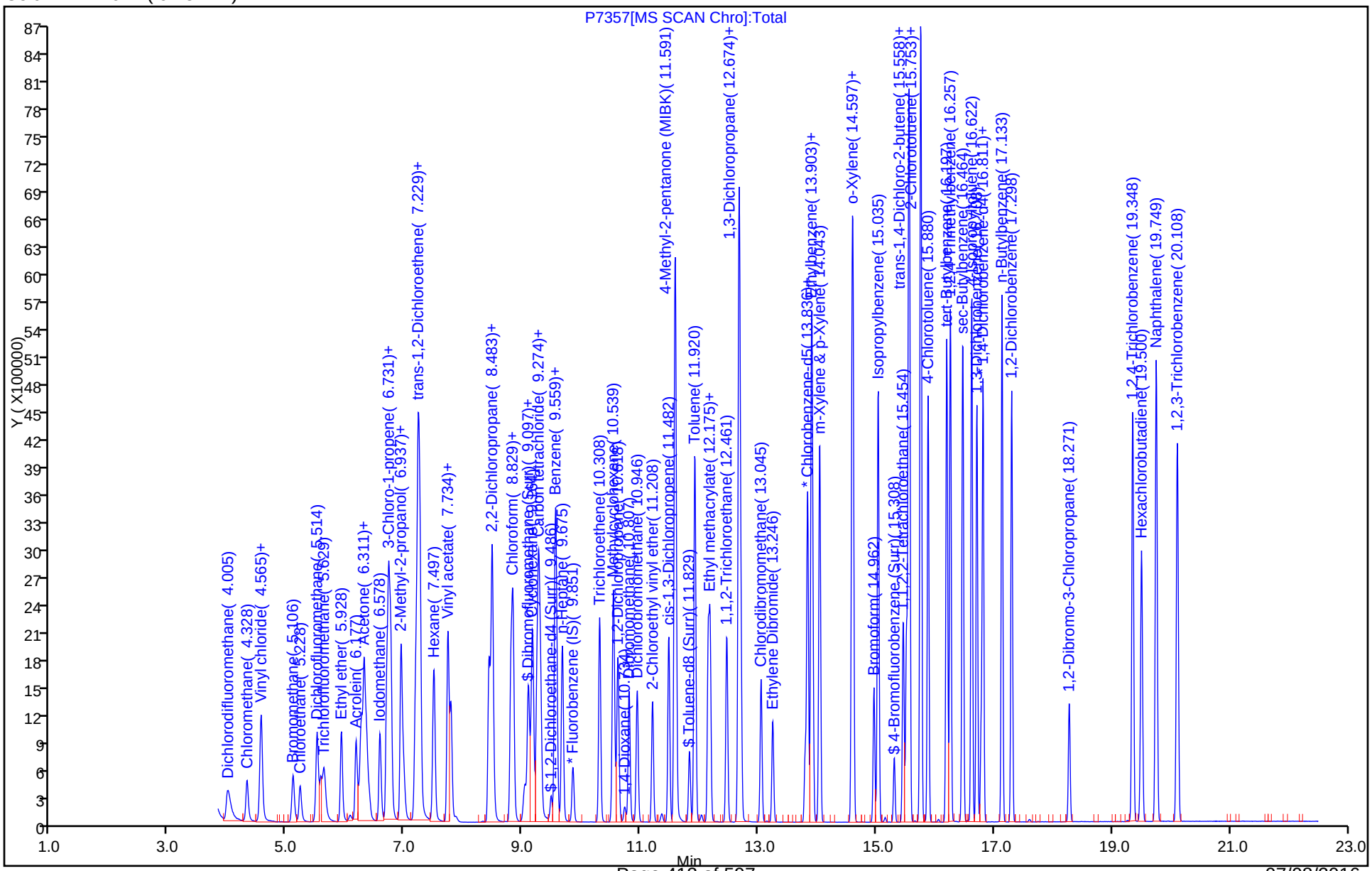
Report Date: 20-Jun-2016 12:36:46 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7357.D

Injection Date:	20-Jun-2016 01:29:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC 7			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

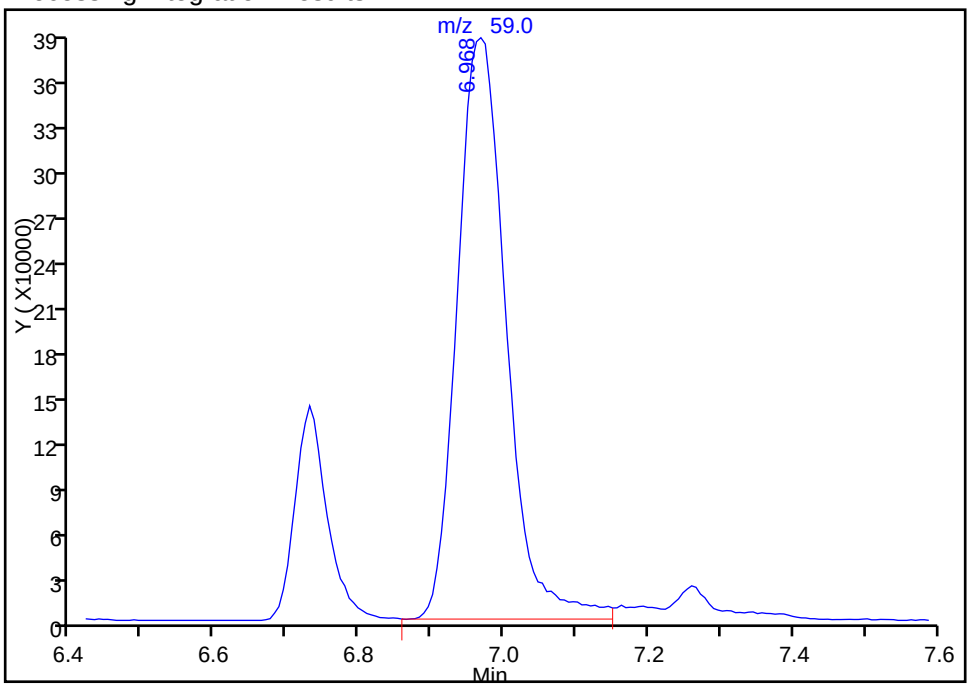
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7357.D
Injection Date: 20-Jun-2016 01:29:30 Instrument ID: HP5973P
Lims ID: IC 7
Client ID:
Operator ID: NMD ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

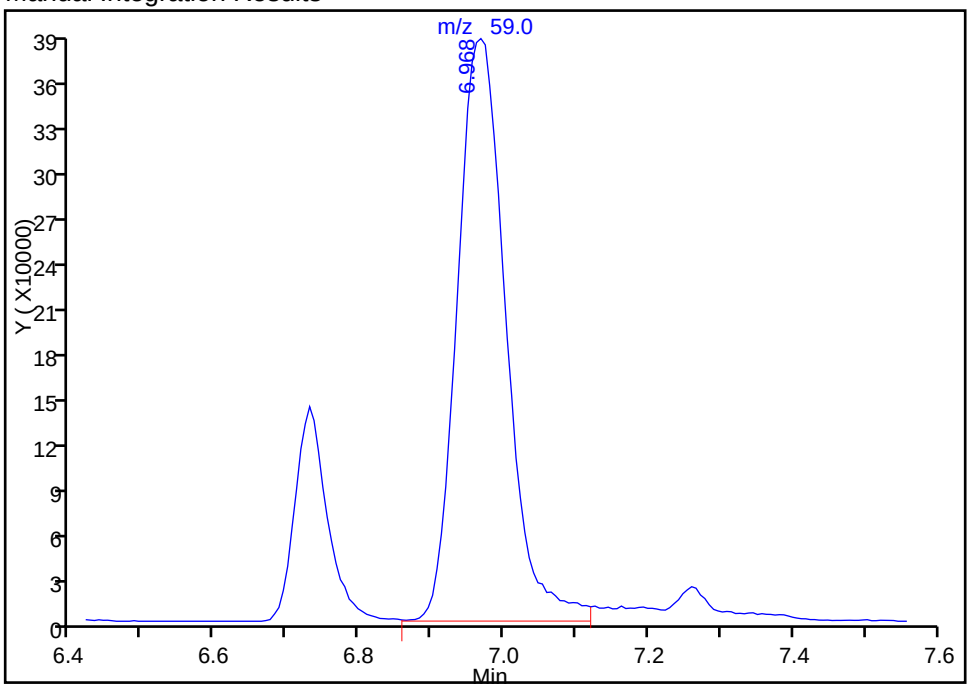
Processing Integration Results

RT: 6.97
Area: 1805241
Amount: 958.5928
Amount Units: ug/L



Manual Integration Results

RT: 6.97
Area: 1802532
Amount: 945.3397
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:17:52
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

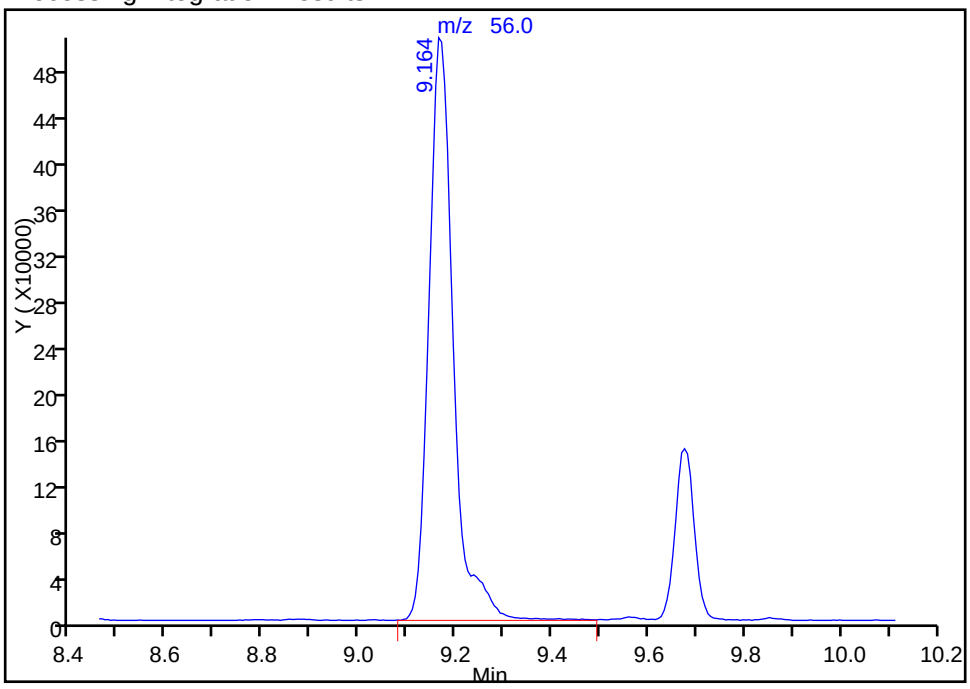
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7357.D
Injection Date: 20-Jun-2016 01:29:30 Instrument ID: HP5973P
Lims ID: IC 7
Client ID:
Operator ID: NMD ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

54 Cyclohexane, CAS: 110-82-7

Signal: 1

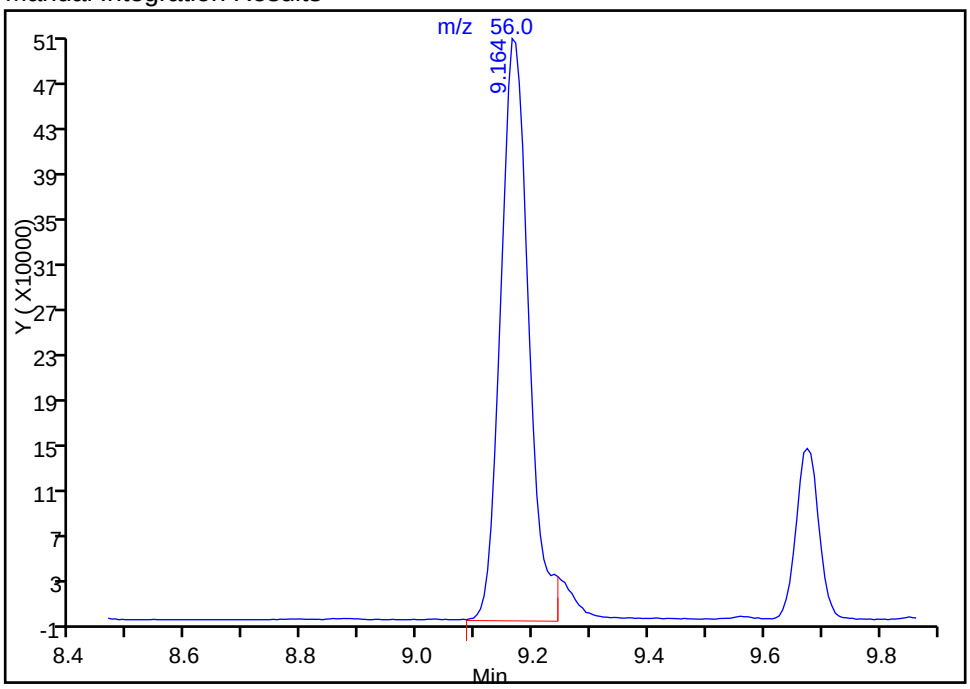
Processing Integration Results

RT: 9.16
Area: 1782761
Amount: 93.456788
Amount Units: ug/L



Manual Integration Results

RT: 9.16
Area: 1714433
Amount: 90.771756
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:10:01
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

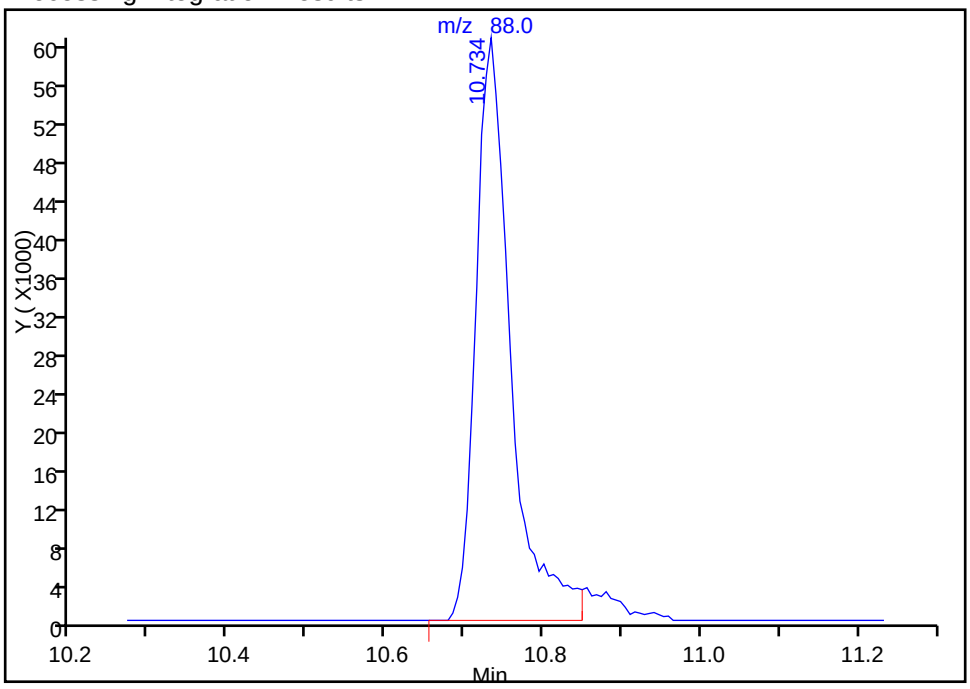
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7357.D
Injection Date: 20-Jun-2016 01:29:30 Instrument ID: HP5973P
Lims ID: IC 7
Client ID:
Operator ID: NMD ALS Bottle#: 12 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

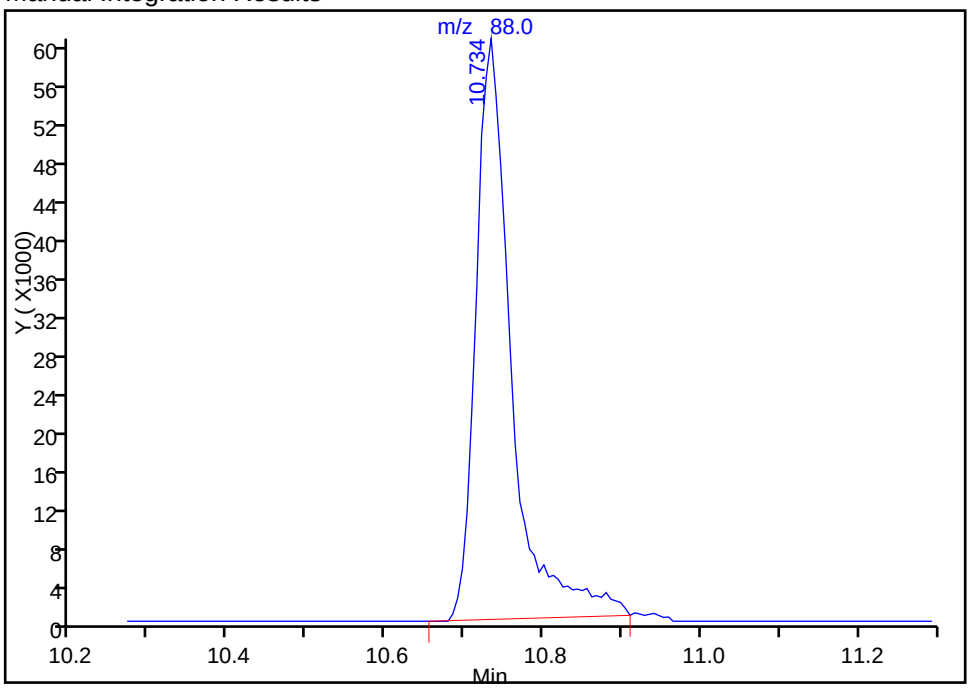
Processing Integration Results

RT: 10.73
Area: 185715
Amount: 1699.1608
Amount Units: ug/L



Manual Integration Results

RT: 10.73
Area: 189057
Amount: 1725.3414
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:10:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2016 02:23 Calibration End Date: 06/20/2016 05:07 Calibration ID: 27805

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-307413/12	P7359.D
Level 2	IC 480-307413/13	P7360.D
Level 3	IC 480-307413/14	P7361.D
Level 4	IC 480-307413/15	P7362.D
Level 5	IC 480-307413/16	P7363.D
Level 6	IC 480-307413/17	P7364.D
Level 7	IC 480-307413/18	P7365.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								
Chlorodifluoromethane	2.6158 2.1300	2.6052 2.0827	2.1260	2.2819	2.1136	Ave		2.2793				10.3		20.0			
Ethanol	+++++ 0.0168	0.0118 0.0204	0.0121	0.0211	0.0173	Ave		0.0166				24.0	*	20.0			
Isopropyl alcohol	+++++ 0.1486	0.1476 0.1837	0.1304	0.1677	0.1524	Ave		0.1551				11.9		20.0			
Acetonitrile	+++++ 0.1342	0.1939 0.1458	0.1844	0.1605	0.1572	Ave		0.1627				13.9		20.0			
Isopropyl ether	7.6258 6.5912	6.5546 6.1146	5.8850	6.4277	6.7294	Ave		6.5612				8.4		20.0			
1,1-Dimethoxyethane	0.5388 0.5207	0.4568 0.5158	0.4473	0.5111	0.5206	Ave		0.5016				7.0		20.0			
Chloroprene	3.3582 3.2173	3.0735 3.0050	2.8950	3.2133	3.0992	Ave		3.1231				4.9		20.0			
Tert-butyl ethyl ether	7.0069 6.1145	6.3256 5.8469	5.7073	6.2159	6.2049	Ave		6.2031				6.7		20.0			
Ethyl acetate	3.3195 2.7961	2.8102 2.6599	2.5914	2.8156	2.8535	Ave		2.8352				8.2		20.0			
Propionitrile	+++++ 0.3715	0.4247 0.3830	0.3788	0.4395	0.3981	Ave		0.3993				6.8		20.0			
Methacrylonitrile	1.9562 1.4351	1.7447 1.1853	1.6242	1.7640	1.5903	Ave		1.6143				15.4		20.0			
t-Amyl alcohol	0.2894 0.2652	0.2440 0.2986	0.2195	0.2737	0.2589	Ave		0.2642				10.2		15.0			
Isooctane	6.5171 5.7643	6.2660 5.2849	5.4473	5.8747	5.0278	Ave		5.7403				9.3		20.0			
Tert-amyl methyl ether	5.9823 5.3434	5.5933 5.0502	5.0248	5.4051	5.3295	Ave		5.3898				6.1		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2016 02:23 Calibration End Date: 06/20/2016 05:07 Calibration ID: 27805

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Difluorobenzene	6.8031 5.5198	6.0477 5.3300	5.3957	5.8000	5.6386	Ave		5.7907				8.8		20.0			
n-Butanol	0.0295 0.0740	0.0382 0.0819	0.0446	0.0593	0.0661	Ave		0.0562				34.5	*	20.0			
Ethyl acrylate	3.0458 3.2512	2.6696 3.1661	2.6367	3.0613	3.2477	Ave		3.0112				8.6		20.0			
Methyl methacrylate	2.3408 2.0987	1.9976 1.9303	1.9445	2.1786	2.1591	Ave		2.0928				7.1		20.0			
2-Nitropropane	0.2059 0.2765	0.1870 0.3051	0.1742	0.2183	0.2404	Lin1	-0.228	0.2845							0.9880	*	0.9900
Epichlorohydrin	0.3199 0.3204	0.2984 0.3091	0.2977	0.3276	0.3309	Ave		0.3149				4.3		20.0			
n-Butyl acetate	2.1832 1.9917	2.0440 1.9214	1.6719	1.8412	1.9164	Ave		1.9385			0.1000	8.3		20.0			
3-Chlorobenzotrifluoride	+++++ 1.2500	1.3328 1.2077	1.1846	1.2384	1.1412	Ave		1.2258				5.3		20.0			
1-Chlorohexane	0.8498 0.8461	0.9347 0.7765	0.8058	0.8565	0.8123	Ave		0.8403				6.0		20.0			
4-Chlorobenzotrifluoride	+++++ 1.1708	1.3591 1.1276	1.1527	1.1903	1.1085	Ave		1.1848				7.6		20.0			
2-Chlorobenzotrifluoride	+++++ 1.2874	1.4202 1.2699	1.2128	1.2689	1.2191	Ave		1.2797				5.9		20.0			
Cyclohexanone	0.0414 0.0345	0.0305 0.0387	0.0283	0.0353	0.0334	Ave		0.0346				13.0		20.0			
3-Chlorotoluene	0.8978 0.8510	0.8896 0.8204	0.7936	0.8414	0.8474	Ave		0.8487				4.3		20.0			
Pentachloroethane	0.4987 0.5409	0.4583 0.5656	0.4391	0.4868	0.4979	Ave		0.4982				8.8		20.0			
1,2,3-Trimethylbenzene	3.5475 3.1366	3.3035 2.9140	2.9512	3.2166	3.1516	Ave		3.1744				6.8		20.0			
Dicyclopentadiene	2.8377 2.5775	2.5532 2.3950	2.3672	2.6011	2.6006	Ave		2.5617				6.1		20.0			
Benzyl chloride	0.3323 0.4167	0.2872 0.4251	0.3301	0.3700	0.4069	Ave		0.3669				14.2		20.0			
1,3,5-Trichlorobenzene	+++++ 1.5725	1.6639 1.5342	1.4710	1.5403	1.5255	Ave		1.5512				4.1		20.0			
2-Methylnaphthalene	+++++ 2.9625	1.9596 3.0044	2.1798	2.6804	2.7931	Lin1	-1.651	2.9736							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2016 02:23 Calibration End Date: 06/20/2016 05:07 Calibration ID: 27805

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-307413/12	P7359.D
Level 2	IC 480-307413/13	P7360.D
Level 3	IC 480-307413/14	P7361.D
Level 4	IC 480-307413/15	P7362.D
Level 5	IC 480-307413/16	P7363.D
Level 6	IC 480-307413/17	P7364.D
Level 7	IC 480-307413/18	P7365.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	Ave	7033 575697	14000 1159607	56370	118895	274476	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethanol	FB	Ave	+++++ 181301	2546 455406	12781	44014	89925	+++++ 2000	40.0 4000	200	400	1000
Isopropyl alcohol	FB	Ave	+++++ 401750	7931 1022962	34570	87389	197868	+++++ 500	10.0 1000	50.0	100	250
Acetonitrile	FB	Ave	+++++ 362845	10419 811730	48890	83650	204147	+++++ 500	10.0 1000	50.0	100	250
Isopropyl ether	FB	Ave	20503 1781456	35224 3404449	156036	334901	873898	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	7243 703645	12275 1436042	59293	133138	338033	2.50 250	5.00 500	25.0	50.0	125
Chloroprene	FB	Ave	9029 869557	16517 1673098	76758	167422	402465	0.500 50.0	1.00 100	5.00	10.0	25.0
Tert-butyl ethyl ether	FB	Ave	18839 1652590	33993 3255395	151324	323865	805784	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	17850 1511433	30204 2961926	137417	293402	741124	1.00 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	+++++ 1004029	22822 2132659	100430	228969	516938	+++++ 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	52594 3878781	93761 6599571	430656	919091	2065160	5.00 500	10.0 1000	50.0	100	250
t-Amyl alcohol	FB	Ave	7781 716905	13110 1662475	58206	142593	336156	5.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	17522 1557945	33673 2942507	144430	306086	652925	0.500 50.0	1.00 100	5.00	10.0	25.0
Tert-amyl methyl ether	FB	Ave	16084 1444180	30058 2811819	133229	281619	692104	0.500 50.0	1.00 100	5.00	10.0	25.0
1,4-Difluorobenzene	FB	Ave	18291 1491861	32500 2967583	143062	302198	732236	0.500 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1 Analy Batch No.: 307413

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2016 02:23 Calibration End Date: 06/20/2016 05:07 Calibration ID: 27805

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	FB	Ave	1984 500263	5132 1140079	29566	77282	214595	12.5 1250	25.0 2500	125	250	625
Ethyl acrylate	FB	Ave	8189 878716	14346 1762817	69911	159501	421750	0.500 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	12587 1134470	21470 2149498	103113	227022	560767	1.00 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	DCB	Lin1	2692 370937	4853 834473	22316	55792	158084	1.00 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Ave	8601 866026	16035 1720869	78928	170714	429675	5.00 500	10.0 1000	50.0	100	250
n-Butyl acetate	CBZ	Ave	12031 1114594	21960 2179232	90475	198425	522049	0.500 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCB	Ave	+++++ 838358	17296 1651815	75876	158248	375211	+++++ 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBZ	Ave	4683 473508	10042 880690	43607	92308	221275	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCB	Ave	+++++ 785261	17638 1542268	73833	152096	364462	+++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCB	Ave	+++++ 863488	18431 1736849	77682	162140	400813	+++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCB	Ave	2707 231520	3961 528626	18104	45065	109859	5.00 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCB	Ave	5870 570756	11545 1122076	50829	107516	278604	0.500 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCB	Ave	3261 362803	5948 773606	28124	62205	163692	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCB	Ave	23195 2103738	42871 3985567	189027	411029	1036186	0.500 50.0	1.00 100	5.00	10.0	25.0
Dicyclopentadiene	DCB	Ave	18554 1728733	33134 3275709	151616	332375	855029	0.500 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	DCB	Ave	2173 279485	3727 581391	21140	47276	133786	0.500 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCB	Ave	+++++ 1054711	21594 2098284	94218	196827	501548	+++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methylnaphthalene	DCB	Lin1	+++++ 1986964	25431 4109174	139615	342515	918306	+++++ 50.0	1.00 100	5.00	10.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7359.D
Lims ID: IC A1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jun-2016 02:23:30 ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC A1
Misc. Info.: 480-0054167-012
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub28

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:49 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:21:44

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	9.852	9.852	0.000	99	134431	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	275542	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	326920	25.0	25.0	
15 Chlorodifluoromethane	51	4.030	4.024	0.006	31	7033	0.5000	0.5738	
141 Ethanol	45	5.849	5.812	0.037	33	2194	20.0	24.6	
26 Propene oxide	58	6.092	6.074	0.018	96	9835	NC	NC	
23 Isopropyl alcohol	45	6.494	6.451	0.043	21	5595	5.00	6.71	
29 Acetonitrile	40	6.767	6.749	0.018	93	5632	5.00	6.44	
37 Isopropyl ether	45	7.716	7.710	0.006	95	20503	0.5000	0.5811	
39 1,1-Dimethoxyethane	75	7.820	7.808	0.012	95	7243	2.50	2.69	
41 2-Chloro-1,3-butadiene	53	7.881	7.875	0.006	36	9029	0.5000	0.5376	
42 Tert-butyl ethyl ether	59	8.148	8.148	0.000	83	18839	0.5000	0.5648	
46 Ethyl acetate	43	8.428	8.422	0.006	98	17850	1.00	1.17	
47 Propionitrile	54	8.562	8.556	0.006	98	13281	5.00	6.19	
48 Methacrylonitrile	41	8.732	8.726	0.006	95	52594	5.00	6.06	
140 t-Amyl alcohol	59	9.377	9.383	-0.006	91	7781	5.00	5.48	
146 Isooctane	57	9.517	9.511	0.006	39	17522	0.5000	0.5677	M
58 Tert-amyl methyl ether	73	9.560	9.554	0.006	94	16084	0.5000	0.5550	
1 1,4-Difluorobenzene	114	9.925	9.925	0.000	85	18291	0.5000	0.5874	
61 n-Butanol	56	10.058	10.040	0.018	16	1984	12.5	6.56	
145 Ethyl acrylate	55	10.284	10.278	0.006	96	8189	0.5000	0.5057	
65 Methyl methacrylate	41	10.582	10.582	0.000	91	12587	1.00	1.12	
72 2-Nitropropane	43	11.220	11.208	0.012	89	2692	1.00	1.53	
74 Epichlorohydrin	57	11.379	11.373	0.006	96	8601	5.00	5.08	
149 n-Butyl acetate	43	12.760	12.760	0.000	98	12031	0.5000	0.5631	
84 3-Chlorobenzotrifluoride	180	13.636	13.642	-0.006	93	9792	0.5000	0.6109	
139 1-Chlorohexane	55	13.660	13.654	0.006	94	4683	0.5000	0.5057	
86 4-Chlorobenzotrifluoride	180	13.709	13.709	0.000	91	9946	0.5000	0.6419	
91 2-Chlorobenzotrifluoride	180	14.901	14.889	0.012	95	10405	0.5000	0.6218	
96 Cyclohexanone	55	15.303	15.278	0.025	1	2707	5.00	5.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
104 3-Chlorotoluene	126	15.820	15.820	0.000	97	5870	0.5000	0.5289	
108 Pentachloroethane	167	16.312	16.306	0.006	81	3261	0.5000	0.5005	
113 1,2,3-Trimethylbenzene	105	16.811	16.817	-0.006	93	23195	0.5000	0.5588	
114 Dicyclopentadiene	66	16.836	16.836	0.000	92	18554	0.5000	0.5539	
143 Benzyl chloride	126	16.963	16.963	0.000	98	2173	0.5000	0.4529	
118 1,3,5-Trichlorobenzene	180	18.490	18.490	0.000	95	11917	0.5000	0.5875	
142 2-Methylnaphthalene	142	21.575	21.569	0.006	95	14250	0.5000	0.9217	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

P 8260 IS_00149	Amount Added:	1.25	Units: uL
ADD CORP mix_00048	Amount Added:	0.50	Units: uL

Report Date: 20-Jun-2016 12:36:50 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7359.D

Injection Date:	20-Jun-2016 02:23:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC A1			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

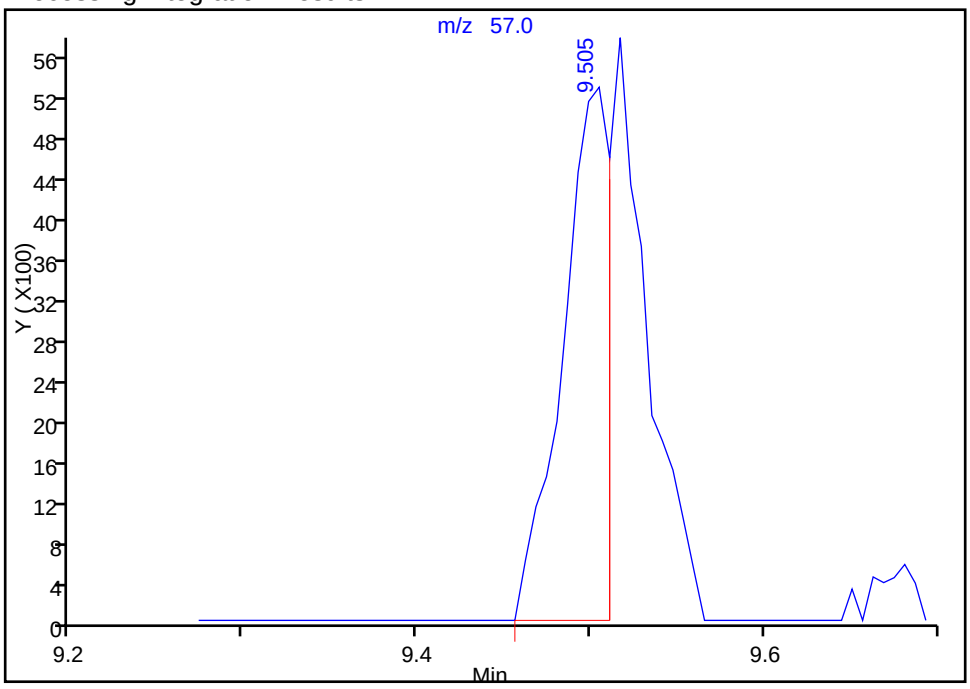
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7359.D
Injection Date: 20-Jun-2016 02:23:30 Instrument ID: HP5973P
Lims ID: IC A1
Client ID:
Operator ID: NMD ALS Bottle#: 14 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

146 Isooctane, CAS: 540-84-1

Signal: 1

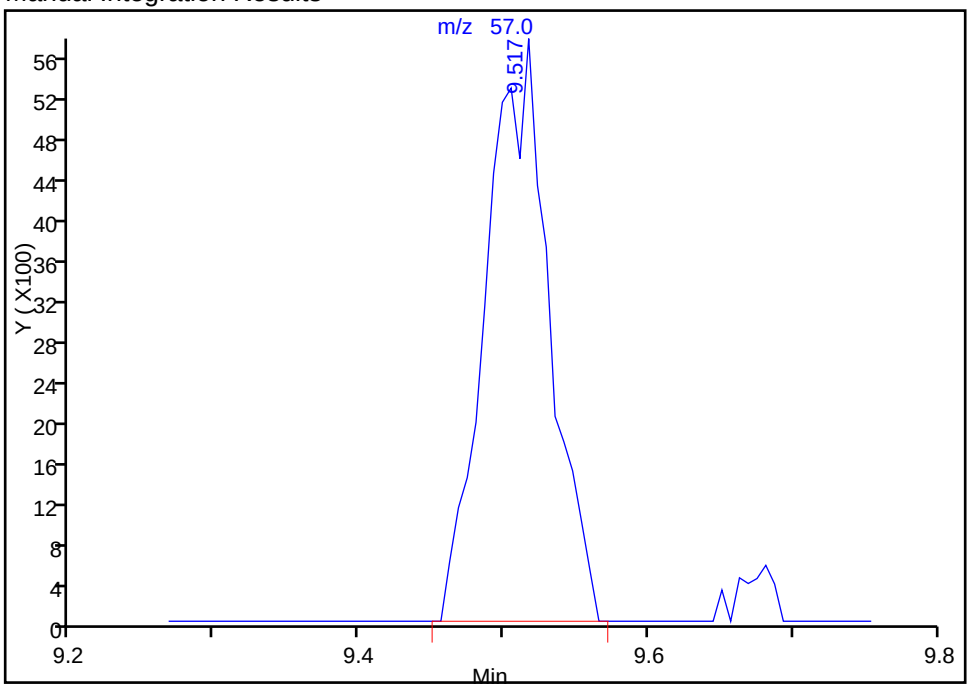
Processing Integration Results

RT: 9.50
Area: 10050
Amount: 0.349783
Amount Units: ug/L



Manual Integration Results

RT: 9.52
Area: 17522
Amount: 0.567662
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:21:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7360.D
Lims ID: IC A2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jun-2016 02:50:30 ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC A2
Misc. Info.: 480-0054167-013
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub28

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:51 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:23:28

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	9.852	9.852	0.000	98	134348	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	268585	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	324441	25.0	25.0	
15 Chlorodifluoromethane	51	4.030	4.024	0.006	41	14000	1.00	1.14	
141 Ethanol	45	5.806	5.812	-0.006	51	2546	40.0	28.6	
26 Propene oxide	58	6.074	6.074	0.000	95	17255	NC	NC	
23 Isopropyl alcohol	45	6.463	6.451	0.012	44	7931	10.0	9.52	
29 Acetonitrile	40	6.774	6.749	0.025	96	10419	10.0	11.9	
37 Isopropyl ether	45	7.717	7.710	0.007	94	35224	1.00	1.00	
39 1,1-Dimethoxyethane	75	7.820	7.808	0.012	80	12275	5.00	4.55	
41 2-Chloro-1,3-butadiene	53	7.875	7.875	0.000	94	16517	1.00	0.9841	
42 Tert-butyl ethyl ether	59	8.148	8.148	0.000	99	33993	1.00	1.02	
46 Ethyl acetate	43	8.428	8.422	0.006	98	30204	2.00	1.98	
47 Propionitrile	54	8.568	8.556	0.012	98	22822	10.0	10.6	M
48 Methacrylonitrile	41	8.726	8.726	0.000	93	93761	10.0	10.8	
140 t-Amyl alcohol	59	9.383	9.383	0.000	96	13110	10.0	9.23	M
146 Isooctane	57	9.511	9.511	0.000	94	33673	1.00	1.09	
58 Tert-amyl methyl ether	73	9.548	9.554	-0.006	95	30058	1.00	1.04	
1 1,4-Difluorobenzene	114	9.925	9.925	0.000	94	32500	1.00	1.04	
61 n-Butanol	56	10.053	10.040	0.013	92	5132	25.0	17.0	M
145 Ethyl acrylate	55	10.290	10.278	0.012	53	14346	1.00	0.8865	
65 Methyl methacrylate	41	10.588	10.582	0.006	93	21470	2.00	1.91	
72 2-Nitropropane	43	11.215	11.208	0.007	98	4853	2.00	2.12	
74 Epichlorohydrin	57	11.373	11.373	0.000	98	16035	10.0	9.48	
149 n-Butyl acetate	43	12.766	12.760	0.006	98	21960	1.00	1.05	
84 3-Chlorobenzotrifluoride	180	13.636	13.642	-0.006	93	17296	1.00	1.09	
139 1-Chlorohexane	55	13.654	13.654	0.000	94	10042	1.00	1.11	
86 4-Chlorobenzotrifluoride	180	13.709	13.709	0.000	94	17638	1.00	1.15	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	95	18431	1.00	1.11	
96 Cyclohexanone	55	15.285	15.278	0.006	79	3961	10.0	8.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
104 3-Chlorotoluene	126	15.820	15.820	0.000	97	11545	1.00	1.05	
108 Pentachloroethane	167	16.307	16.306	0.001	82	5948	1.00	0.9200	
113 1,2,3-Trimethylbenzene	105	16.811	16.817	-0.006	95	42871	1.00	1.04	
114 Dicyclopentadiene	66	16.836	16.836	0.000	94	33134	1.00	1.00	
143 Benzyl chloride	126	16.970	16.963	0.007	99	3727	1.00	0.7828	
118 1,3,5-Trichlorobenzene	180	18.491	18.490	0.001	97	21594	1.00	1.07	
142 2-Methylnaphthalene	142	21.569	21.569	0.000	93	25431	1.00	1.21	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00048	Amount Added:	1.00	Units: uL
P 8260 IS_00149	Amount Added:	1.25	Units: uL

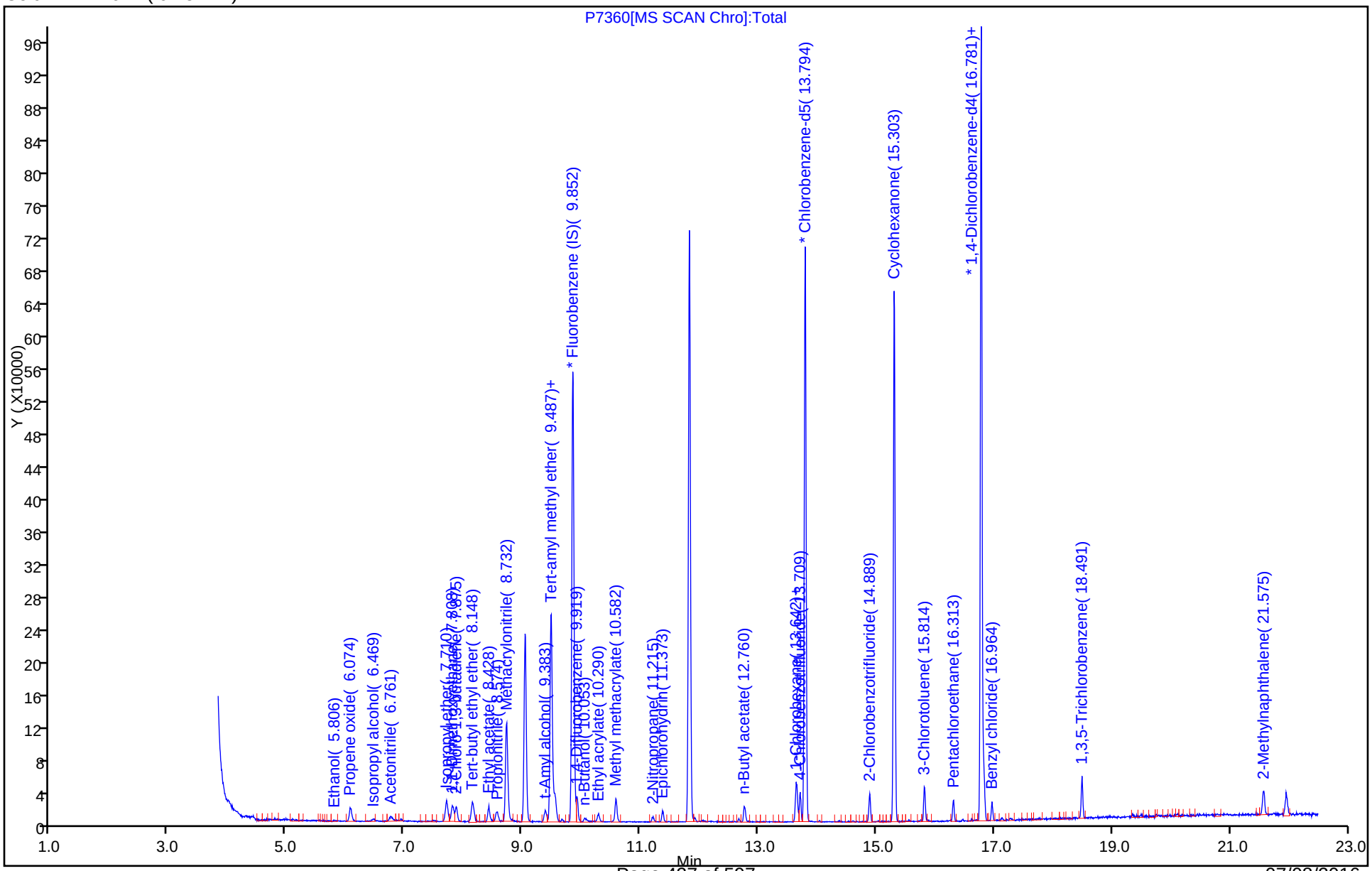
Report Date: 20-Jun-2016 12:36:52 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7360.D

Injection Date:	20-Jun-2016 02:50:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC A2			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

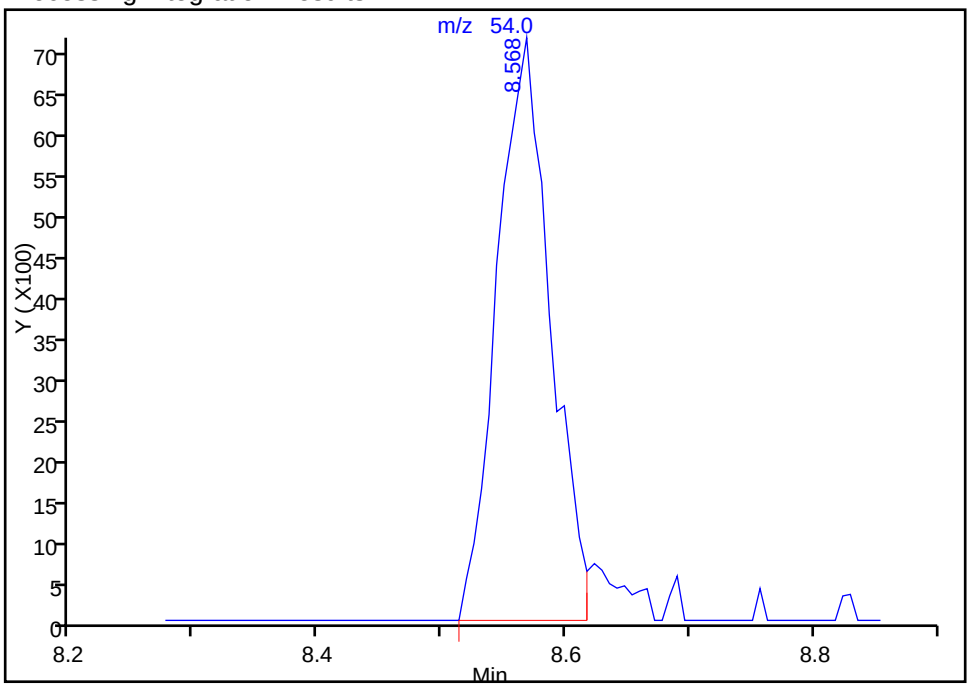
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7360.D
Injection Date: 20-Jun-2016 02:50:30 Instrument ID: HP5973P
Lims ID: IC A2
Client ID:
Operator ID: NMD ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

47 Propionitrile, CAS: 107-12-0

Signal: 1

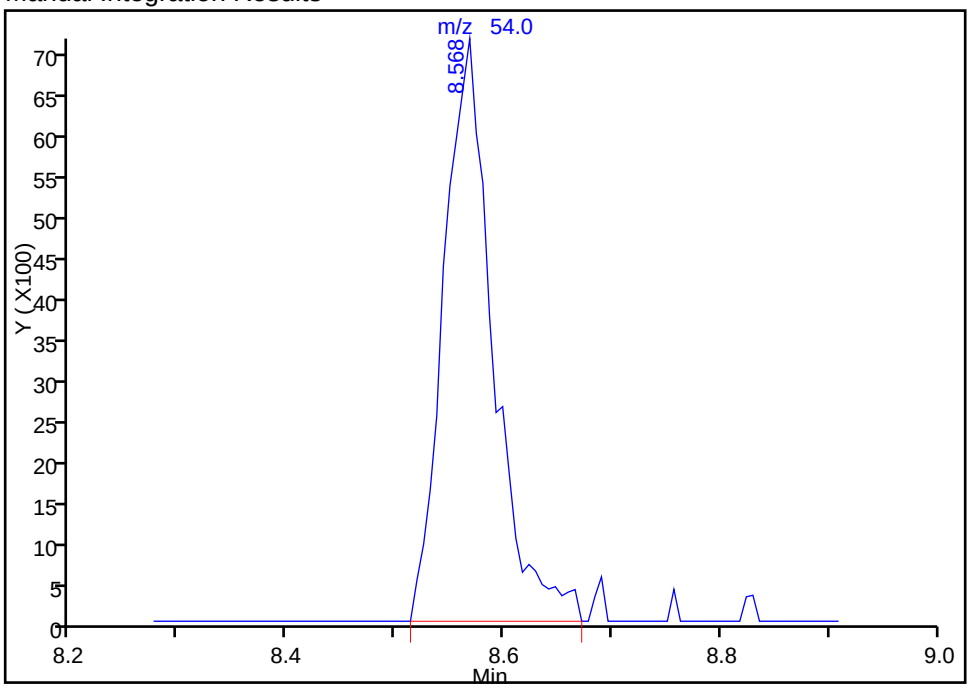
Processing Integration Results

RT: 8.57
Area: 21488
Amount: 9.770818
Amount Units: ug/L



Manual Integration Results

RT: 8.57
Area: 22822
Amount: 10.636939
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 12:01:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

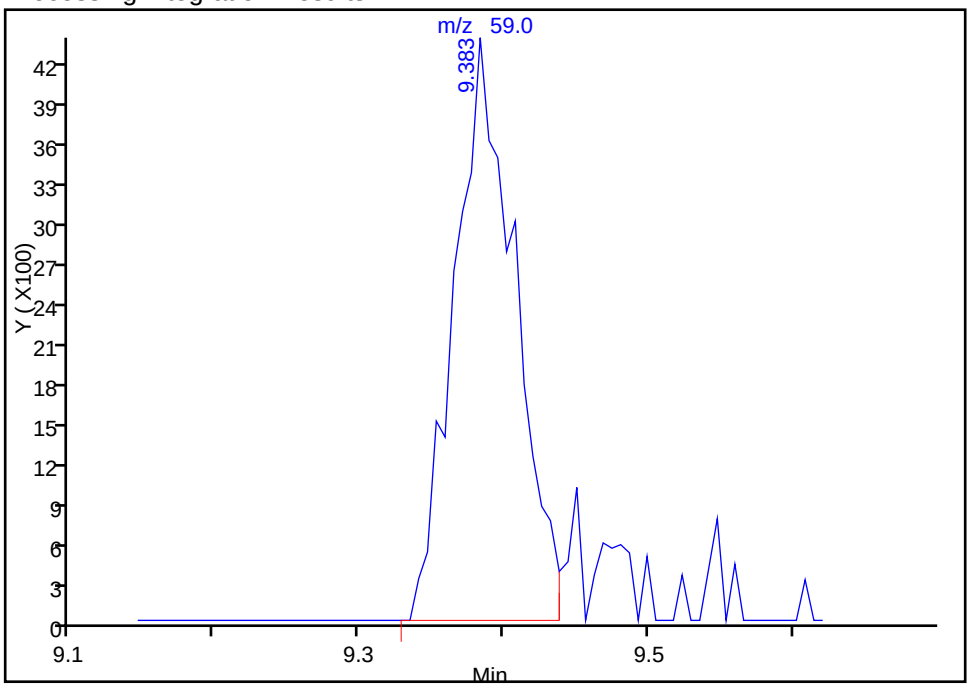
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7360.D
Injection Date: 20-Jun-2016 02:50:30 Instrument ID: HP5973P
Lims ID: IC A2
Client ID:
Operator ID: NMD ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

140 t-Amyl alcohol, CAS: 75-85-4

Signal: 1

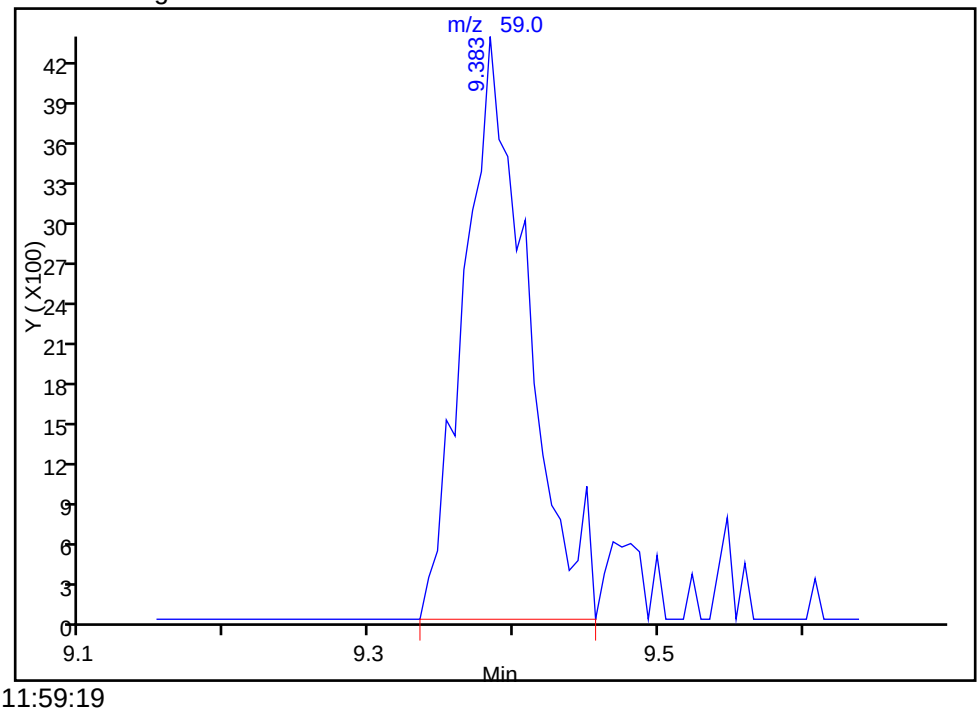
Processing Integration Results

RT: 9.38
Area: 12592
Amount: 8.816379
Amount Units: ug/L



Manual Integration Results

RT: 9.38
Area: 13110
Amount: 9.234450
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:59:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

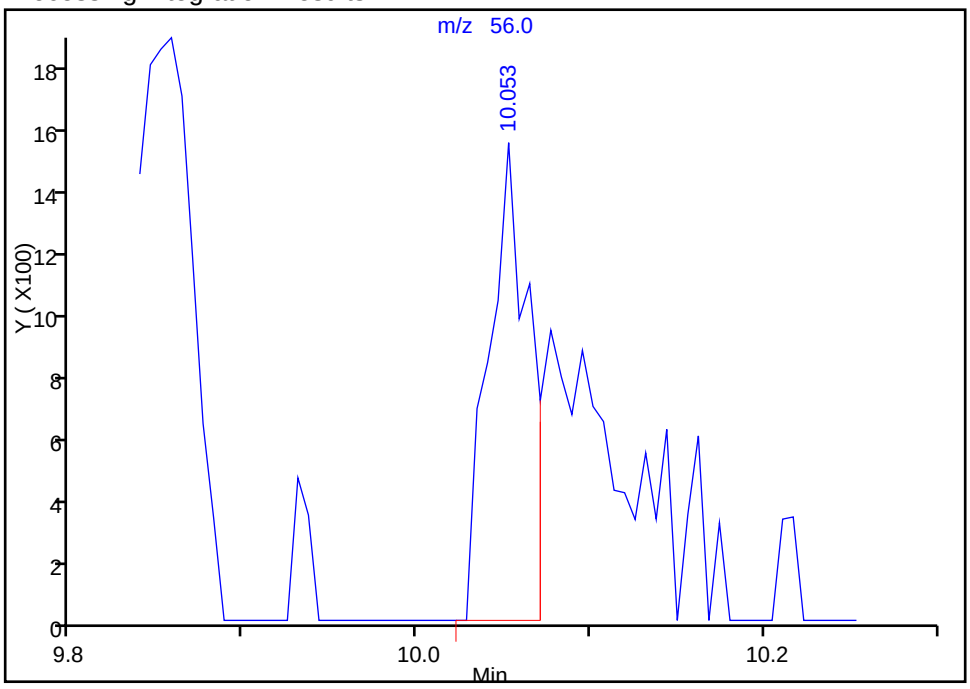
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7360.D
Injection Date: 20-Jun-2016 02:50:30 Instrument ID: HP5973P
Lims ID: IC A2
Client ID:
Operator ID: NMD ALS Bottle#: 15 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

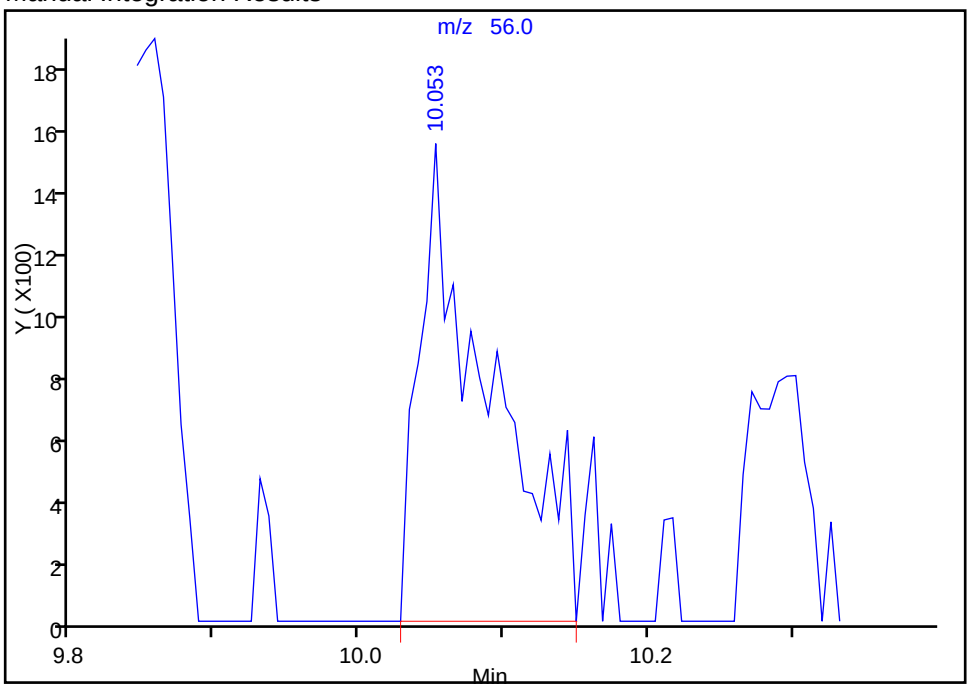
Processing Integration Results

RT: 10.05
Area: 2498
Amount: 8.698121
Amount Units: ug/L



Manual Integration Results

RT: 10.05
Area: 5132
Amount: 16.979891
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:23:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7361.D
Lims ID: IC A3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Jun-2016 03:18:30 ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC A3
Misc. Info.: 480-0054167-014
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub28

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:54 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:23:47

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	9.858	9.852	0.006	99	132571	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	270576	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	320250	25.0	25.0	
15 Chlorodifluoromethane	51	4.036	4.024	0.012	97	56370	5.00	4.66	
141 Ethanol	45	5.812	5.812	0.000	96	12781	200.0	145.3	
26 Propene oxide	58	6.086	6.074	0.012	96	84473	NC	NC	
23 Isopropyl alcohol	45	6.469	6.451	0.018	97	34570	50.0	42.0	
29 Acetonitrile	40	6.761	6.749	0.012	99	48890	50.0	56.7	
37 Isopropyl ether	45	7.710	7.710	0.000	95	156036	5.00	4.48	
39 1,1-Dimethoxyethane	75	7.808	7.808	0.000	96	59293	25.0	22.3	
41 2-Chloro-1,3-butadiene	53	7.881	7.875	0.006	94	76758	5.00	4.63	
42 Tert-butyl ethyl ether	59	8.155	8.148	0.007	98	151324	5.00	4.60	
46 Ethyl acetate	43	8.428	8.422	0.006	99	137417	10.0	9.14	
47 Propionitrile	54	8.562	8.556	0.006	98	100430	50.0	47.4	M
48 Methacrylonitrile	41	8.726	8.726	0.000	95	430656	50.0	50.3	
140 t-Amyl alcohol	59	9.383	9.383	0.000	98	58206	50.0	41.5	
146 Isooctane	57	9.511	9.511	0.000	96	144430	5.00	4.74	
58 Tert-amyl methyl ether	73	9.548	9.554	-0.006	95	133229	5.00	4.66	
1 1,4-Difluorobenzene	114	9.931	9.925	0.006	93	143062	5.00	4.66	
61 n-Butanol	56	10.053	10.040	0.013	93	29566	125.0	99.1	
145 Ethyl acrylate	55	10.284	10.278	0.006	99	69911	5.00	4.38	
65 Methyl methacrylate	41	10.588	10.582	0.006	94	103113	10.0	9.29	
72 2-Nitropropane	43	11.215	11.208	0.007	96	22316	10.0	6.92	
74 Epichlorohydrin	57	11.373	11.373	0.000	100	78928	50.0	47.3	
149 n-Butyl acetate	43	12.766	12.760	0.006	97	90475	5.00	4.31	
84 3-Chlorobenzotrifluoride	180	13.636	13.642	-0.006	94	75876	5.00	4.83	
139 1-Chlorohexane	55	13.660	13.654	0.006	95	43607	5.00	4.80	
86 4-Chlorobenzotrifluoride	180	13.709	13.709	0.000	95	73833	5.00	4.86	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	97	77682	5.00	4.74	
96 Cyclohexanone	55	15.278	15.278	0.000	94	18104	50.0	40.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
104 3-Chlorotoluene	126	15.814	15.820	-0.006	97	50829	5.00	4.68	
108 Pentachloroethane	167	16.307	16.306	0.001	84	28124	5.00	4.41	
113 1,2,3-Trimethylbenzene	105	16.811	16.817	-0.006	97	189027	5.00	4.65	
114 Dicyclopentadiene	66	16.836	16.836	0.000	96	151616	5.00	4.62	
143 Benzyl chloride	126	16.964	16.963	0.001	99	21140	5.00	4.50	
118 1,3,5-Trichlorobenzene	180	18.491	18.490	0.001	96	94218	5.00	4.74	
142 2-Methylnaphthalene	142	21.575	21.569	0.006	92	139615	5.00	4.22	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00048	Amount Added:	5.00	Units: uL
P 8260 IS_00149	Amount Added:	1.25	Units: uL

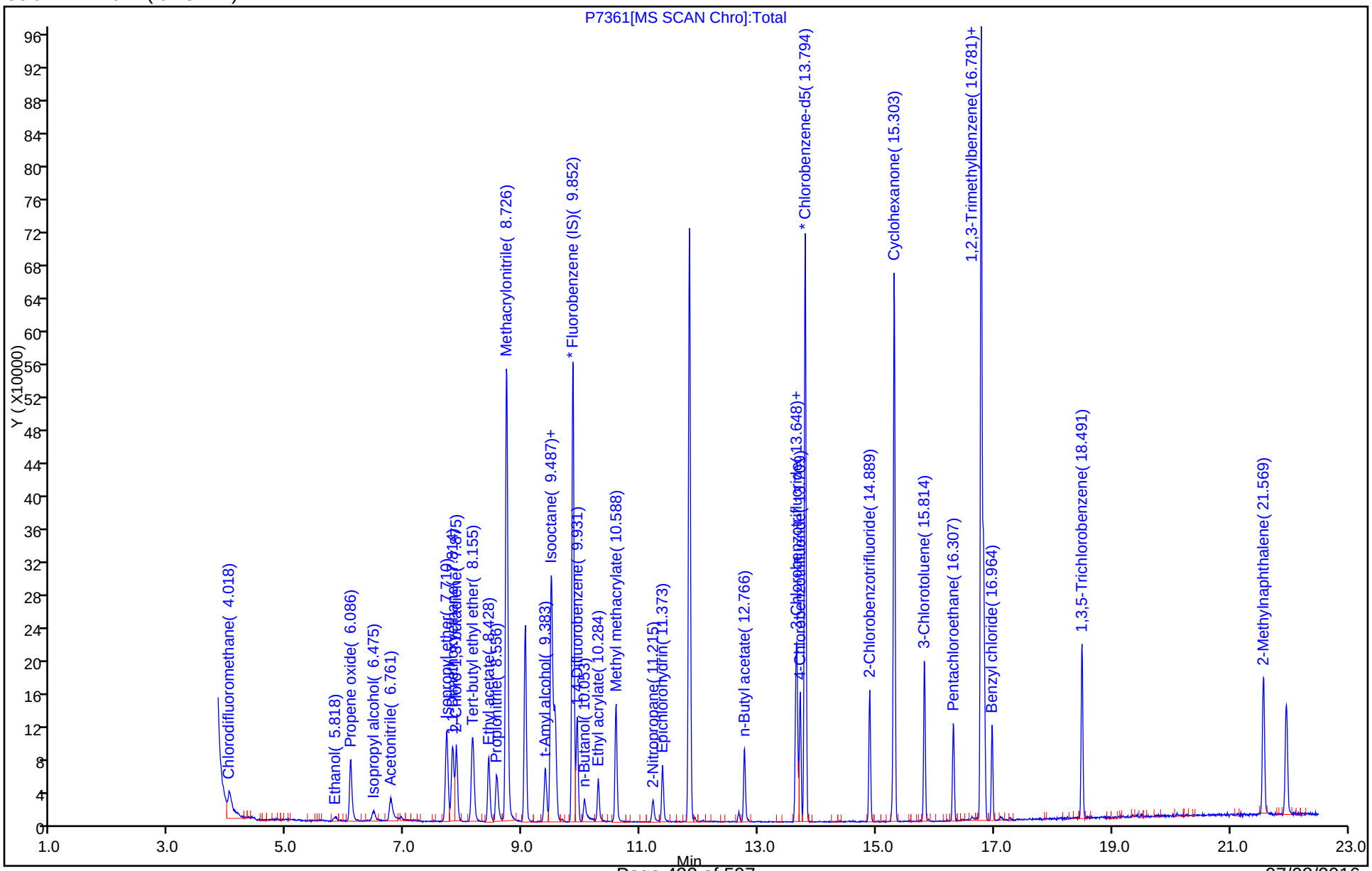
Report Date: 20-Jun-2016 12:36:55 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7361.D

Injection Date:	20-Jun-2016 03:18:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC A3			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

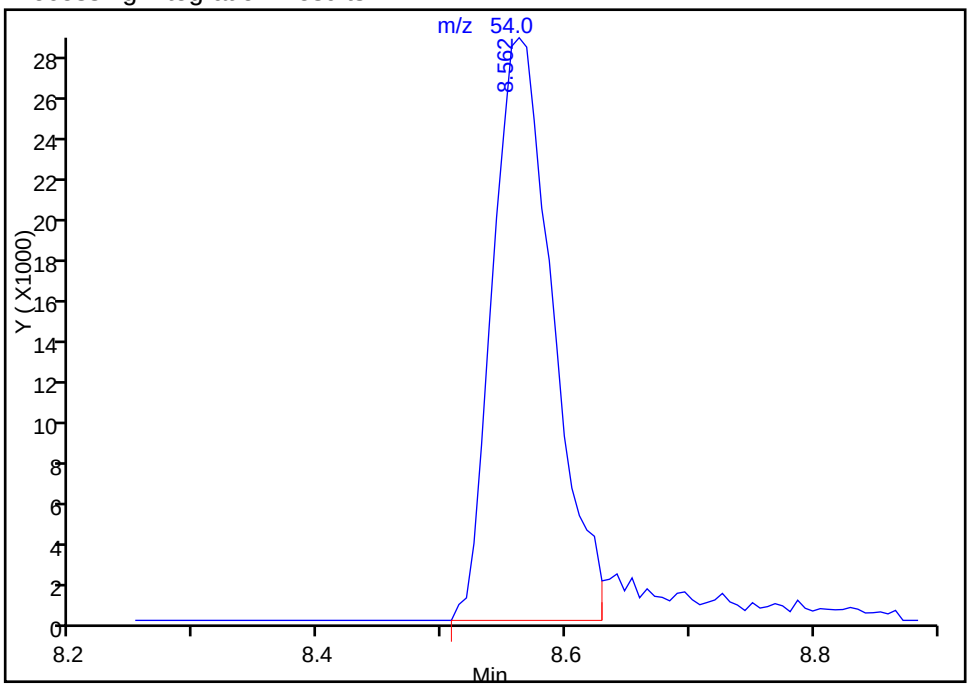
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7361.D
Injection Date: 20-Jun-2016 03:18:30 Instrument ID: HP5973P
Lims ID: IC A3
Client ID:
Operator ID: NMD ALS Bottle#: 16 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

47 Propionitrile, CAS: 107-12-0

Signal: 1

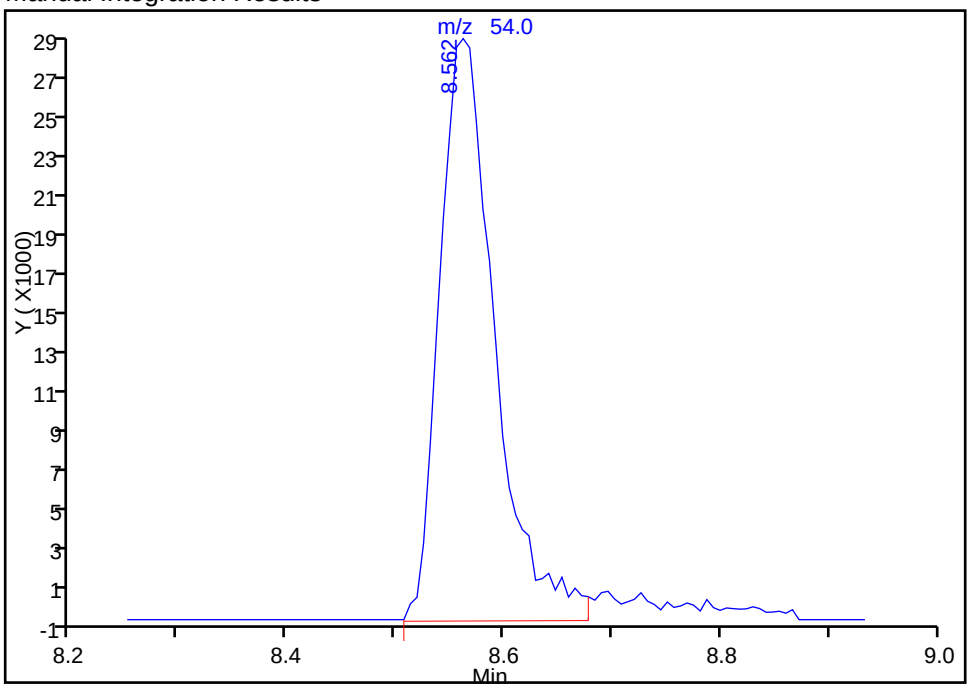
Processing Integration Results

RT: 8.56
Area: 95193
Amount: 44.170003
Amount Units: ug/L



Manual Integration Results

RT: 8.56
Area: 100430
Amount: 47.436114
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 12:01:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7362.D
Lims ID: IC A4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jun-2016 03:45:30 ALS Bottle#: 17 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC A4
Misc. Info.: 480-0054167-015
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub28

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:36:57 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:25:18

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	9.852	9.852	0.000	99	130257	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	269423	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	319457	25.0	25.0	
15 Chlorodifluoromethane	51	4.024	4.024	0.000	97	118895	10.0	10.0	
141 Ethanol	45	5.800	5.800	0.000	96	44014	400.0	509.2	M
26 Propene oxide	58	6.074	6.074	0.000	96	173852	NC	NC	
23 Isopropyl alcohol	45	6.457	6.457	0.000	98	87389	100.0	108.2	
29 Acetonitrile	40	6.755	6.755	0.000	99	83650	100.0	98.7	
37 Isopropyl ether	45	7.710	7.710	0.000	97	334901	10.0	9.80	
39 1,1-Dimethoxyethane	75	7.814	7.814	0.000	97	133138	50.0	50.9	
41 2-Chloro-1,3-butadiene	53	7.874	7.874	0.000	95	167422	10.0	10.3	
42 Tert-butyl ethyl ether	59	8.154	8.154	0.000	99	323865	10.0	10.0	
46 Ethyl acetate	43	8.428	8.428	0.000	99	293402	20.0	19.9	
47 Propionitrile	54	8.562	8.562	0.000	99	228969	100.0	110.1	
48 Methacrylonitrile	41	8.726	8.726	0.000	95	919091	100.0	109.3	
140 t-Amyl alcohol	59	9.377	9.377	0.000	97	142593	100.0	103.6	M
146 Isooctane	57	9.511	9.511	0.000	97	306086	10.0	10.2	
58 Tert-amyl methyl ether	73	9.547	9.547	0.000	96	281619	10.0	10.0	
1 1,4-Difluorobenzene	114	9.925	9.925	0.000	93	302198	10.0	10.0	
61 n-Butanol	56	10.040	10.040	0.000	92	77282	250.0	263.7	
145 Ethyl acrylate	55	10.284	10.284	0.000	99	159501	10.0	10.2	
65 Methyl methacrylate	41	10.582	10.582	0.000	95	227022	20.0	20.8	
72 2-Nitropropane	43	11.208	11.208	0.000	97	55792	20.0	16.1	
74 Epichlorohydrin	57	11.373	11.373	0.000	100	170714	100.0	104.1	
149 n-Butyl acetate	43	12.760	12.760	0.000	98	198425	10.0	9.50	
84 3-Chlorobenzotrifluoride	180	13.636	13.636	0.000	95	158248	10.0	10.1	
139 1-Chlorohexane	55	13.660	13.660	0.000	95	92308	10.0	10.2	
86 4-Chlorobenzotrifluoride	180	13.715	13.715	0.000	96	152096	10.0	10.0	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	98	162140	10.0	9.92	
96 Cyclohexanone	55	15.278	15.278	0.000	94	45065	100.0	102.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
104 3-Chlorotoluene	126	15.820	15.820	0.000	97	107516	10.0	9.91	
108 Pentachloroethane	167	16.306	16.306	0.000	87	62205	10.0	9.77	
113 1,2,3-Trimethylbenzene	105	16.817	16.817	0.000	97	411029	10.0	10.1	
114 Dicyclopentadiene	66	16.836	16.836	0.000	96	332375	10.0	10.2	
143 Benzyl chloride	126	16.969	16.969	0.000	99	47276	10.0	10.1	
118 1,3,5-Trichlorobenzene	180	18.490	18.490	0.000	97	196827	10.0	9.93	
142 2-Methylnaphthalene	142	21.569	21.569	0.000	93	342515	10.0	9.57	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00048	Amount Added:	5.00	Units: uL
P 8260 IS_00149	Amount Added:	1.25	Units: uL

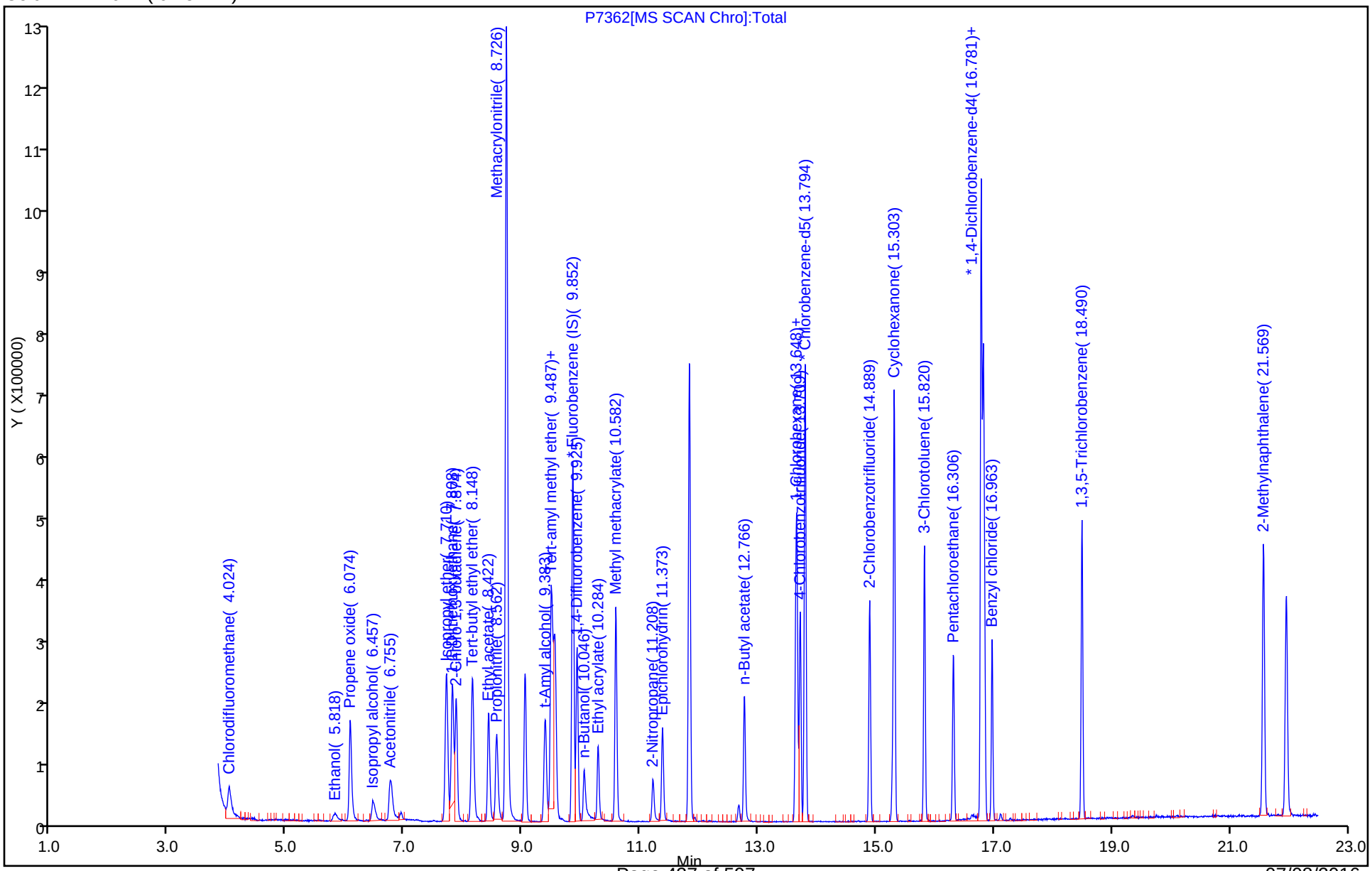
Report Date: 20-Jun-2016 12:36:58 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7362.D

Injection Date:	20-Jun-2016 03:45:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC A4			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

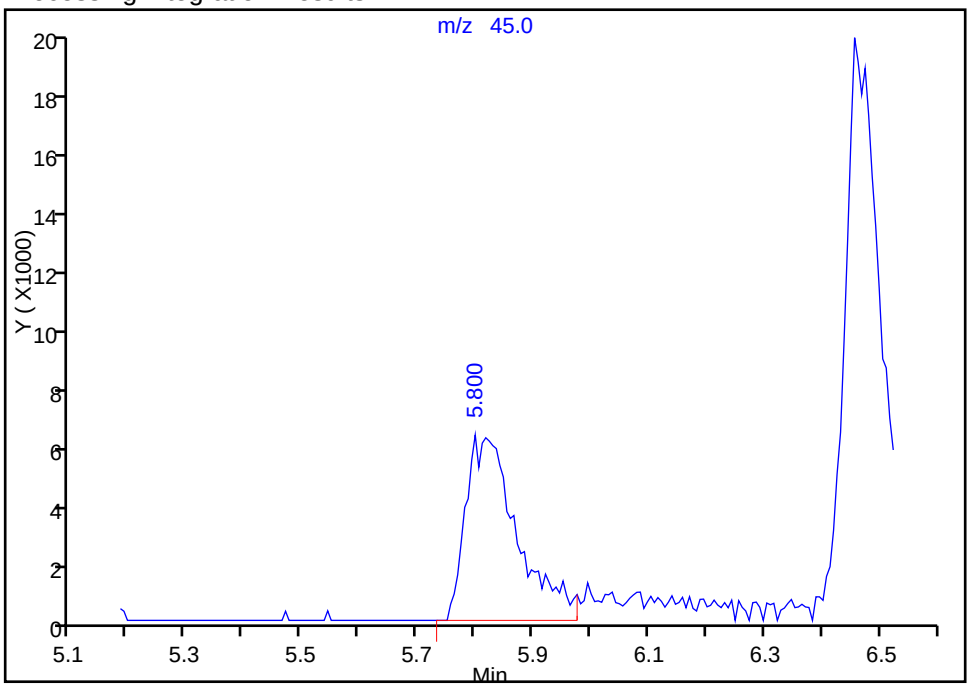
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7362.D
Injection Date: 20-Jun-2016 03:45:30 Instrument ID: HP5973P
Lims ID: IC A4
Client ID:
Operator ID: NMD ALS Bottle#: 17 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

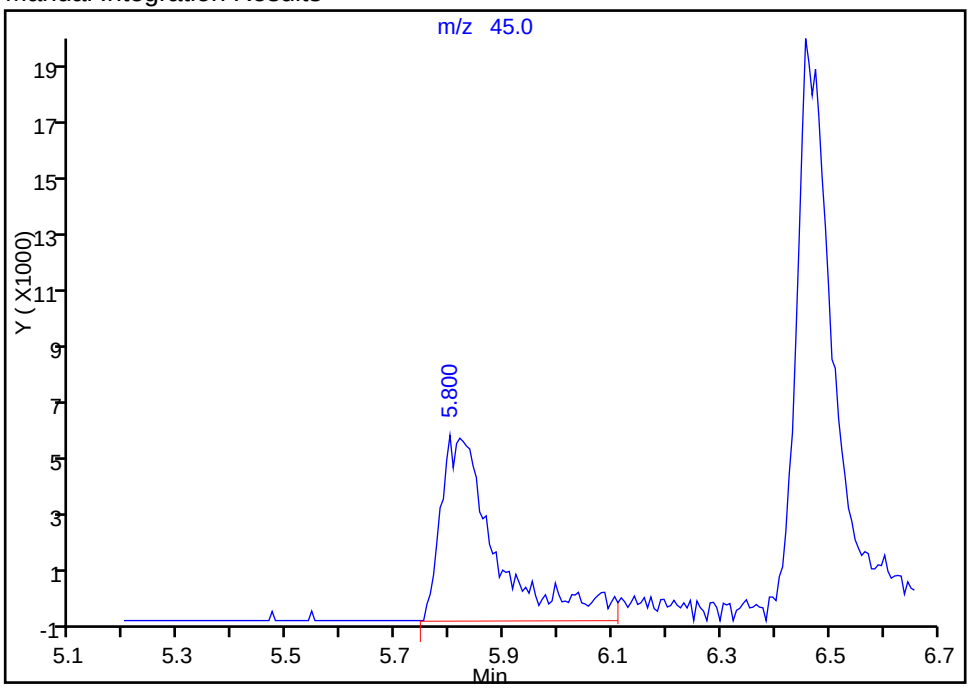
Processing Integration Results

RT: 5.80
Area: 37948
Amount: 435.6242
Amount Units: ug/L



Manual Integration Results

RT: 5.80
Area: 44014
Amount: 509.1722
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:57:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

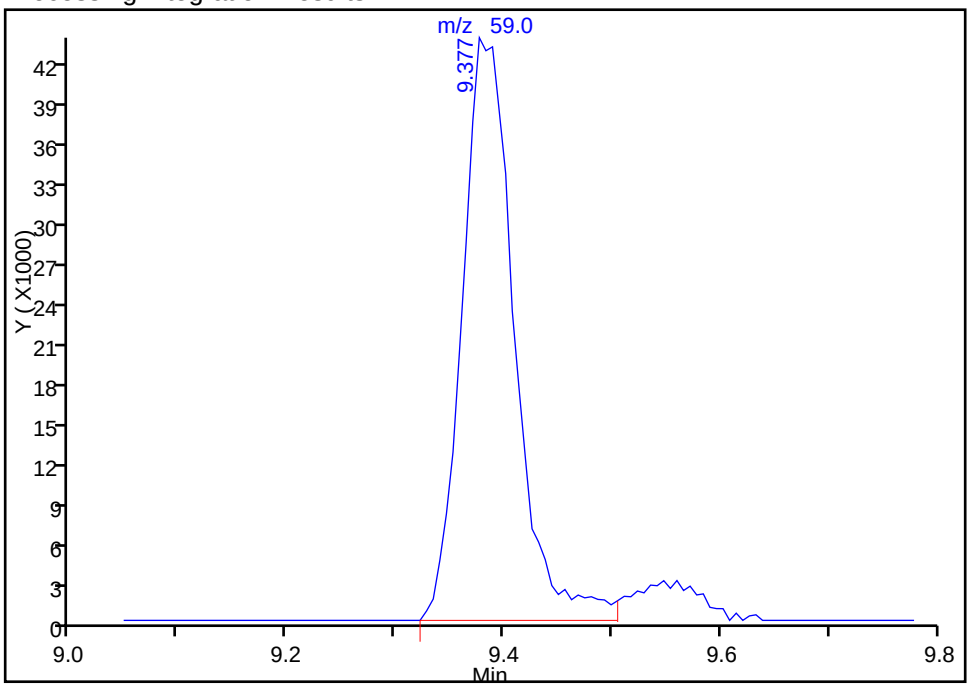
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7362.D
Injection Date: 20-Jun-2016 03:45:30 Instrument ID: HP5973P
Lims ID: IC A4
Client ID:
Operator ID: NMD ALS Bottle#: 17 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

140 t-Amyl alcohol, CAS: 75-85-4

Signal: 1

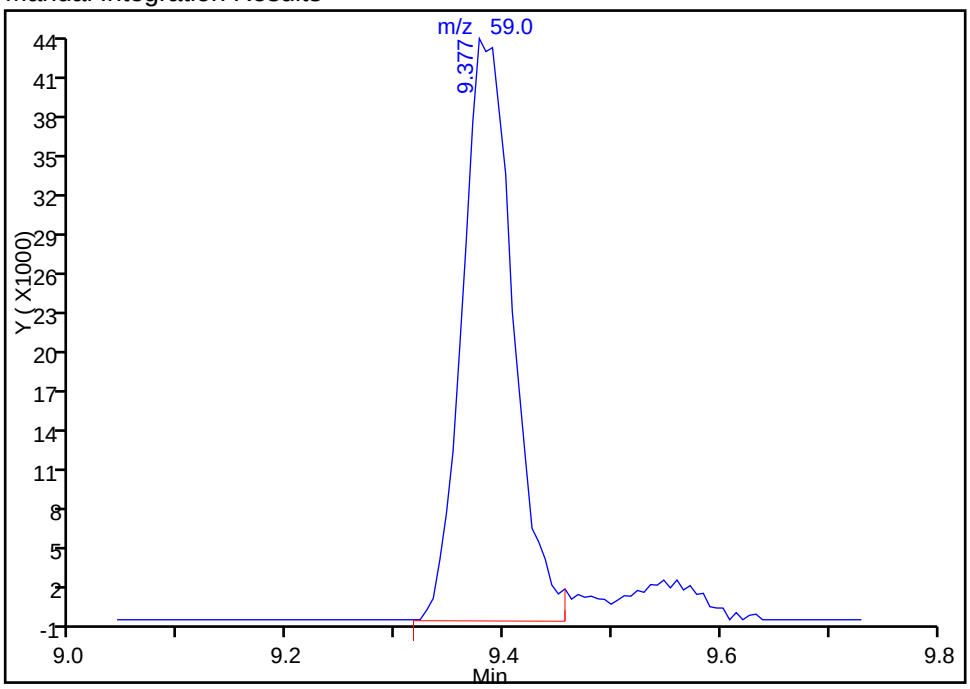
Processing Integration Results

RT: 9.38
Area: 146393
Amount: 105.1724
Amount Units: ug/L



Manual Integration Results

RT: 9.38
Area: 142593
Amount: 103.5945
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:59:45
Audit Action: Manually Integrated Audit Reason: Other

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7363.D
Lims ID: IC A5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Jun-2016 04:12:30 ALS Bottle#: 18 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC A5
Misc. Info.: 480-0054167-016
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub28

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:37:00 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:25:37

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	9.852	9.852	0.000	99	129862	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	272408	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	93	328777	25.0	25.0	
15 Chlorodifluoromethane	51	4.024	4.024	0.000	98	274476	25.0	23.2	
141 Ethanol	45	5.812	5.812	0.000	98	89925	1000.0	1043.5	M
26 Propene oxide	58	6.074	6.074	0.000	96	427938	NC	NC	
23 Isopropyl alcohol	45	6.451	6.451	0.000	98	197868	250.0	245.6	
29 Acetonitrile	40	6.749	6.749	0.000	100	204147	250.0	241.6	
37 Isopropyl ether	45	7.710	7.710	0.000	96	873898	25.0	25.6	
39 1,1-Dimethoxyethane	75	7.808	7.808	0.000	97	338033	125.0	129.7	
41 2-Chloro-1,3-butadiene	53	7.875	7.875	0.000	94	402465	25.0	24.8	
42 Tert-butyl ethyl ether	59	8.148	8.148	0.000	99	805784	25.0	25.0	
46 Ethyl acetate	43	8.422	8.422	0.000	99	741124	50.0	50.3	
47 Propionitrile	54	8.556	8.556	0.000	98	516938	250.0	249.3	
48 Methacrylonitrile	41	8.726	8.726	0.000	94	2065160	250.0	246.3	
140 t-Amyl alcohol	59	9.383	9.383	0.000	96	336156	250.0	245.0	M
146 Isooctane	57	9.511	9.511	0.000	97	652925	25.0	21.9	
58 Tert-amyl methyl ether	73	9.554	9.554	0.000	97	692104	25.0	24.7	
1 1,4-Difluorobenzene	114	9.925	9.925	0.000	94	732236	25.0	24.3	
61 n-Butanol	56	10.040	10.040	0.000	89	214595	625.0	734.5	
145 Ethyl acrylate	55	10.278	10.278	0.000	99	421750	25.0	27.0	
65 Methyl methacrylate	41	10.582	10.582	0.000	94	560767	50.0	51.6	
72 2-Nitropropane	43	11.208	11.208	0.000	99	158084	50.0	43.1	
74 Epichlorohydrin	57	11.373	11.373	0.000	100	429675	250.0	262.7	
149 n-Butyl acetate	43	12.760	12.760	0.000	98	522049	25.0	24.7	
84 3-Chlorobenzotrifluoride	180	13.642	13.642	0.000	94	375211	25.0	23.3	
139 1-Chlorohexane	55	13.654	13.654	0.000	95	221275	25.0	24.2	
86 4-Chlorobenzotrifluoride	180	13.709	13.709	0.000	96	364462	25.0	23.4	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	98	400813	25.0	23.8	
96 Cyclohexanone	55	15.278	15.278	0.000	94	109859	250.0	241.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
104 3-Chlorotoluene	126	15.820	15.820	0.000	97	278604	25.0	25.0	
108 Pentachloroethane	167	16.306	16.306	0.000	88	163692	25.0	25.0	
113 1,2,3-Trimethylbenzene	105	16.817	16.817	0.000	98	1036186	25.0	24.8	
114 Dicyclopentadiene	66	16.836	16.836	0.000	97	855029	25.0	25.4	
143 Benzyl chloride	126	16.963	16.963	0.000	99	133786	25.0	27.7	
118 1,3,5-Trichlorobenzene	180	18.490	18.490	0.000	98	501548	25.0	24.6	
142 2-Methylnaphthalene	142	21.569	21.569	0.000	93	918306	25.0	24.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00048	Amount Added: 12.50	Units: uL
P 8260 IS_00149	Amount Added: 1.25	Units: uL

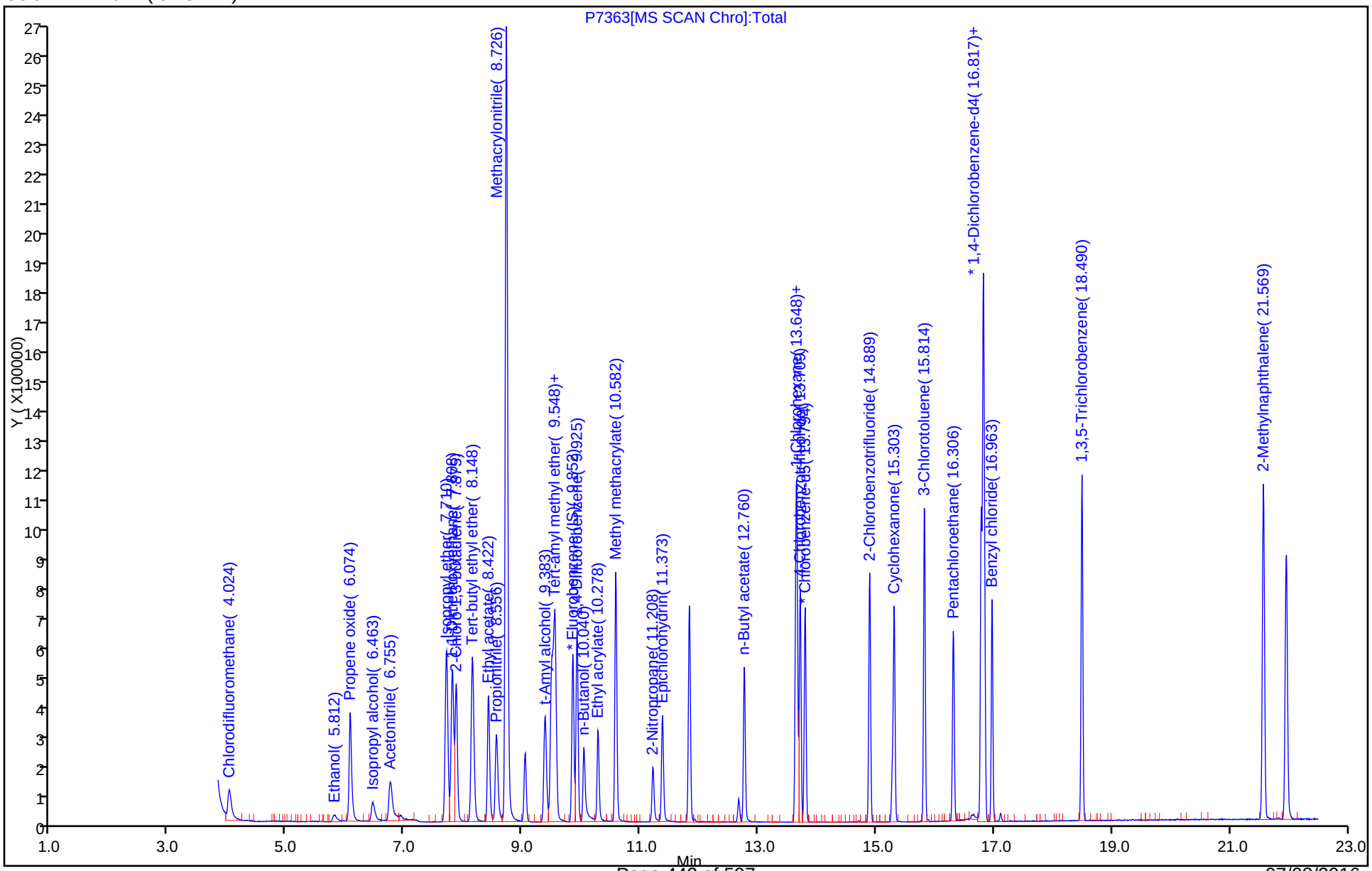
Report Date: 20-Jun-2016 12:37:02 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7363.D

Injection Date:	20-Jun-2016 04:12:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC A5			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

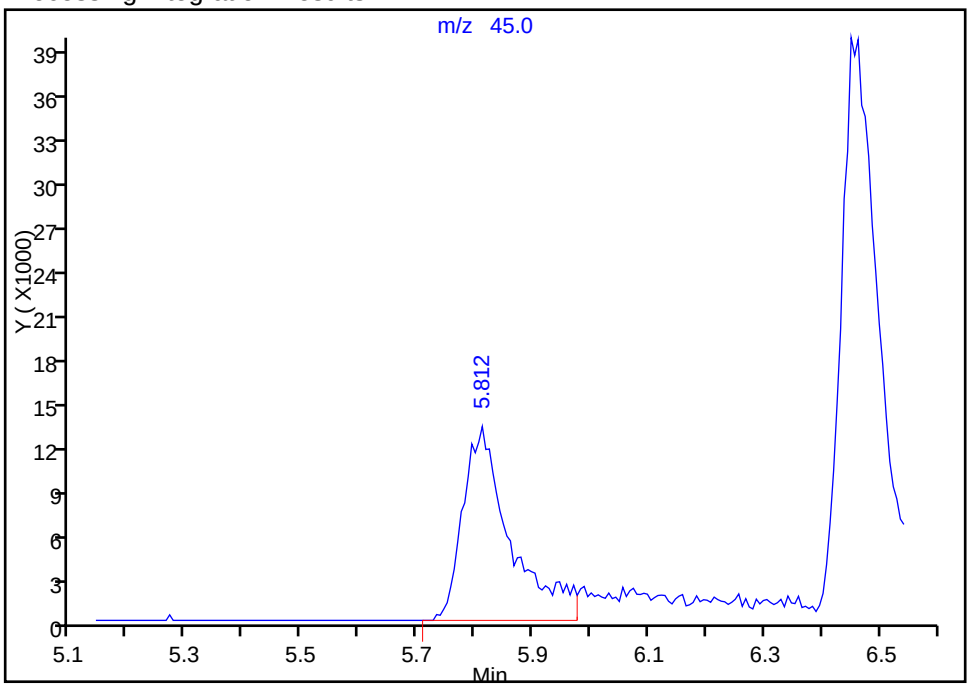
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7363.D
Injection Date: 20-Jun-2016 04:12:30 Instrument ID: HP5973P
Lims ID: IC A5
Client ID:
Operator ID: NMD ALS Bottle#: 18 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

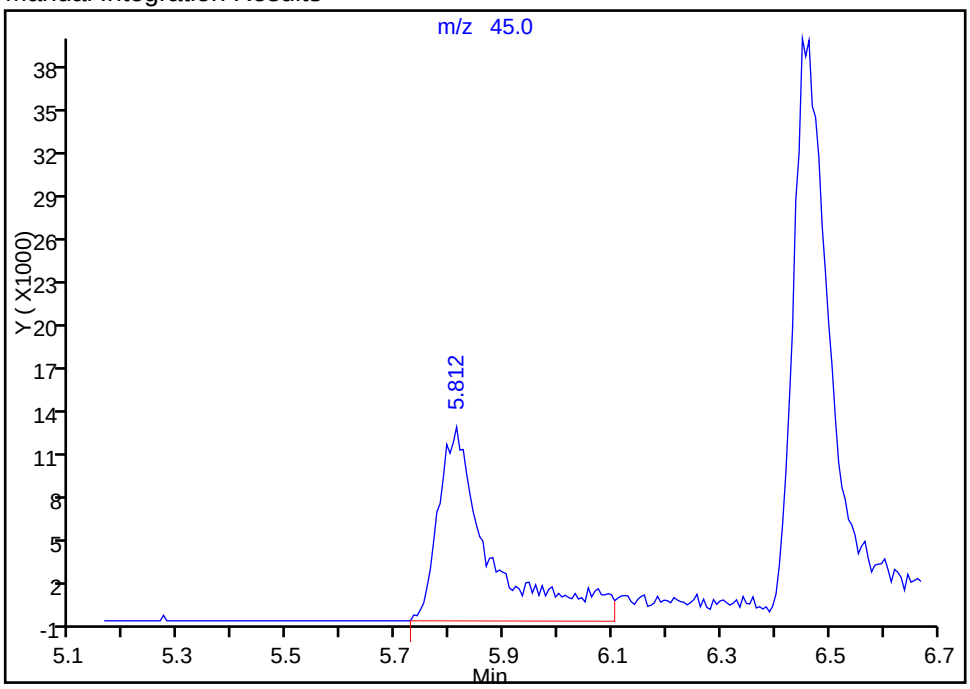
Processing Integration Results

RT: 5.81
Area: 75919
Amount: 894.7778
Amount Units: ug/L



Manual Integration Results

RT: 5.81
Area: 89925
Amount: 1043.4539
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:57:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

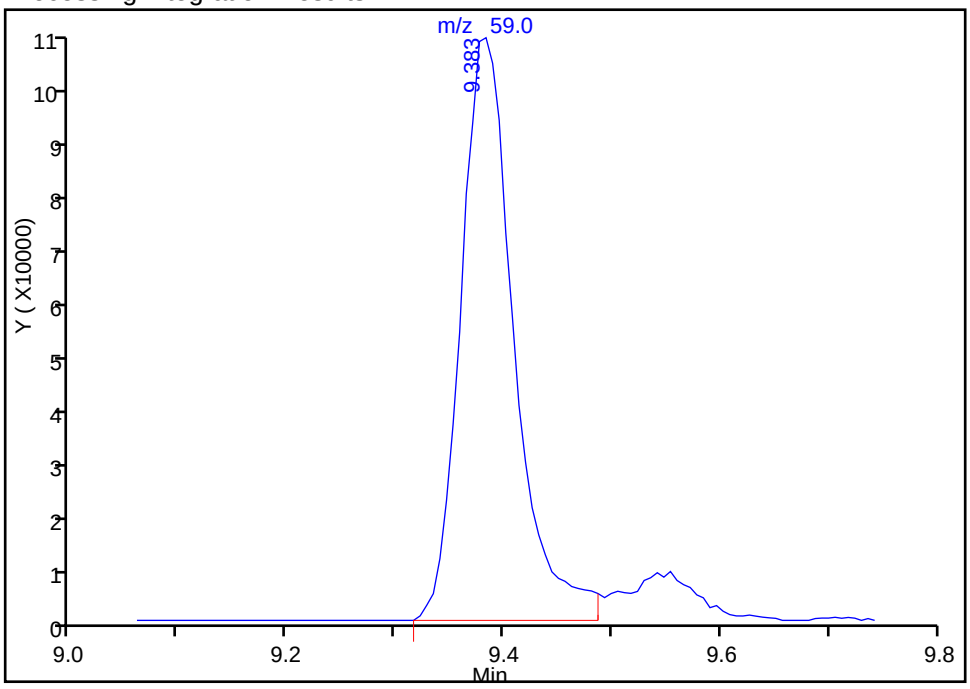
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7363.D
Injection Date: 20-Jun-2016 04:12:30 Instrument ID: HP5973P
Lims ID: IC A5
Client ID:
Operator ID: NMD ALS Bottle#: 18 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

140 t-Amyl alcohol, CAS: 75-85-4

Signal: 1

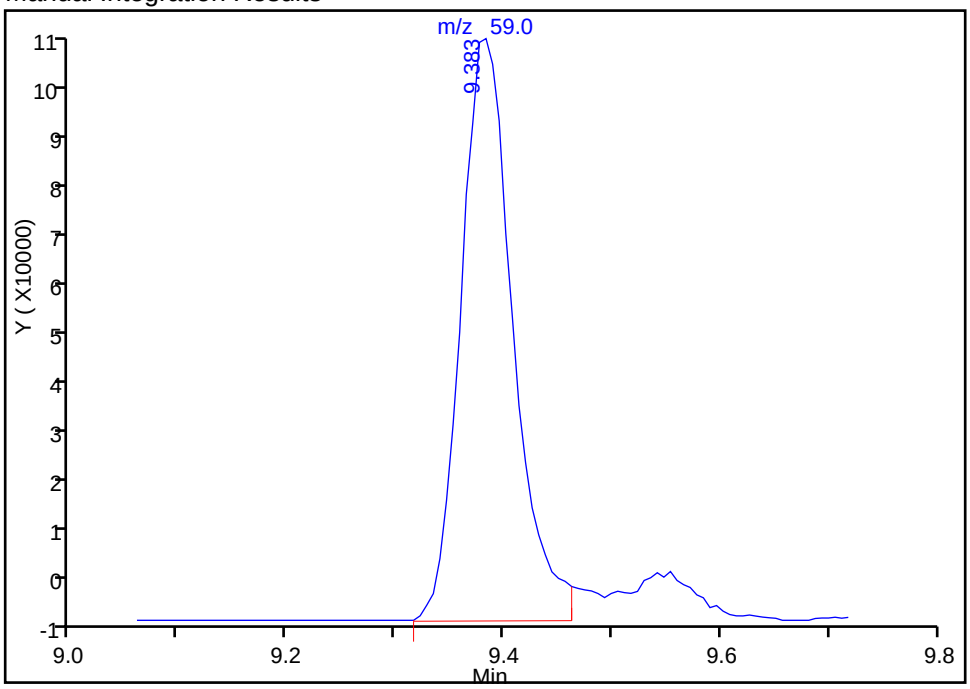
Processing Integration Results

RT: 9.38
Area: 342578
Amount: 247.8317
Amount Units: ug/L



Manual Integration Results

RT: 9.38
Area: 336156
Amount: 244.9618
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 12:00:05
Audit Action: Manually Integrated Audit Reason: Other

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7364.D
Lims ID: IC A6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Jun-2016 04:39:30 ALS Bottle#: 19 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC A6
Misc. Info.: 480-0054167-017
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub28

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:37:03 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:25:57

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	9.852	9.852	0.000	99	135138	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	279816	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	335356	25.0	25.0	
15 Chlorodifluoromethane	51	4.024	4.024	0.000	98	575697	50.0	46.7	
141 Ethanol	45	5.812	5.812	0.000	99	181301	2000.0	2021.6	M
26 Propene oxide	58	6.080	6.074	0.006	96	866110	NC	NC	
23 Isopropyl alcohol	45	6.457	6.451	0.006	98	401750	500.0	479.3	
29 Acetonitrile	40	6.761	6.749	0.012	99	362845	500.0	412.6	
37 Isopropyl ether	45	7.710	7.710	0.000	97	1781456	50.0	50.2	
39 1,1-Dimethoxyethane	75	7.808	7.808	0.000	97	703645	250.0	259.5	
41 2-Chloro-1,3-butadiene	53	7.874	7.875	-0.001	95	869557	50.0	51.5	
42 Tert-butyl ethyl ether	59	8.148	8.148	0.000	99	1652590	50.0	49.3	
46 Ethyl acetate	43	8.422	8.422	0.000	99	1511433	100.0	98.6	
47 Propionitrile	54	8.556	8.556	0.000	99	1004029	500.0	465.2	
48 Methacrylonitrile	41	8.726	8.726	0.000	93	3878781	500.0	444.5	
140 t-Amyl alcohol	59	9.383	9.383	0.000	95	716905	500.0	502.0	M
146 Isooctane	57	9.511	9.511	0.000	97	1557945	50.0	50.2	
58 Tert-amyl methyl ether	73	9.554	9.554	0.000	96	1444180	50.0	49.6	
1 1,4-Difluorobenzene	114	9.925	9.925	0.000	94	1491861	50.0	47.7	
61 n-Butanol	56	10.034	10.040	-0.006	90	500263	1250.0	1645.5	
145 Ethyl acrylate	55	10.277	10.278	-0.001	99	878716	50.0	54.0	
65 Methyl methacrylate	41	10.582	10.582	0.000	95	1134470	100.0	100.3	
72 2-Nitropropane	43	11.208	11.208	0.000	99	370937	100.0	98.0	
74 Epichlorohydrin	57	11.373	11.373	-0.001	100	866026	500.0	508.8	
149 n-Butyl acetate	43	12.760	12.760	0.000	99	1114594	50.0	51.4	
84 3-Chlorobenzotrifluoride	180	13.642	13.642	0.000	95	838358	50.0	51.0	
139 1-Chlorohexane	55	13.654	13.654	0.000	98	473508	50.0	50.3	
86 4-Chlorobenzotrifluoride	180	13.709	13.709	0.000	96	785261	50.0	49.4	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	98	863488	50.0	50.3	
96 Cyclohexanone	55	15.272	15.278	-0.006	94	231520	500.0	499.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
104 3-Chlorotoluene	126	15.820	15.820	0.000	97	570756	50.0	50.1	
108 Pentachloroethane	167	16.312	16.306	0.006	88	362803	50.0	54.3	
113 1,2,3-Trimethylbenzene	105	16.817	16.817	0.000	98	2103738	50.0	49.4	
114 Dicyclopentadiene	66	16.836	16.836	0.000	97	1728733	50.0	50.3	
143 Benzyl chloride	126	16.963	16.963	0.000	99	279485	50.0	56.8	
118 1,3,5-Trichlorobenzene	180	18.490	18.490	0.000	98	1054711	50.0	50.7	
142 2-Methylnaphthalene	142	21.569	21.569	0.000	93	1986964	50.0	50.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00048	Amount Added: 25.00	Units: uL
P 8260 IS_00149	Amount Added: 1.25	Units: uL

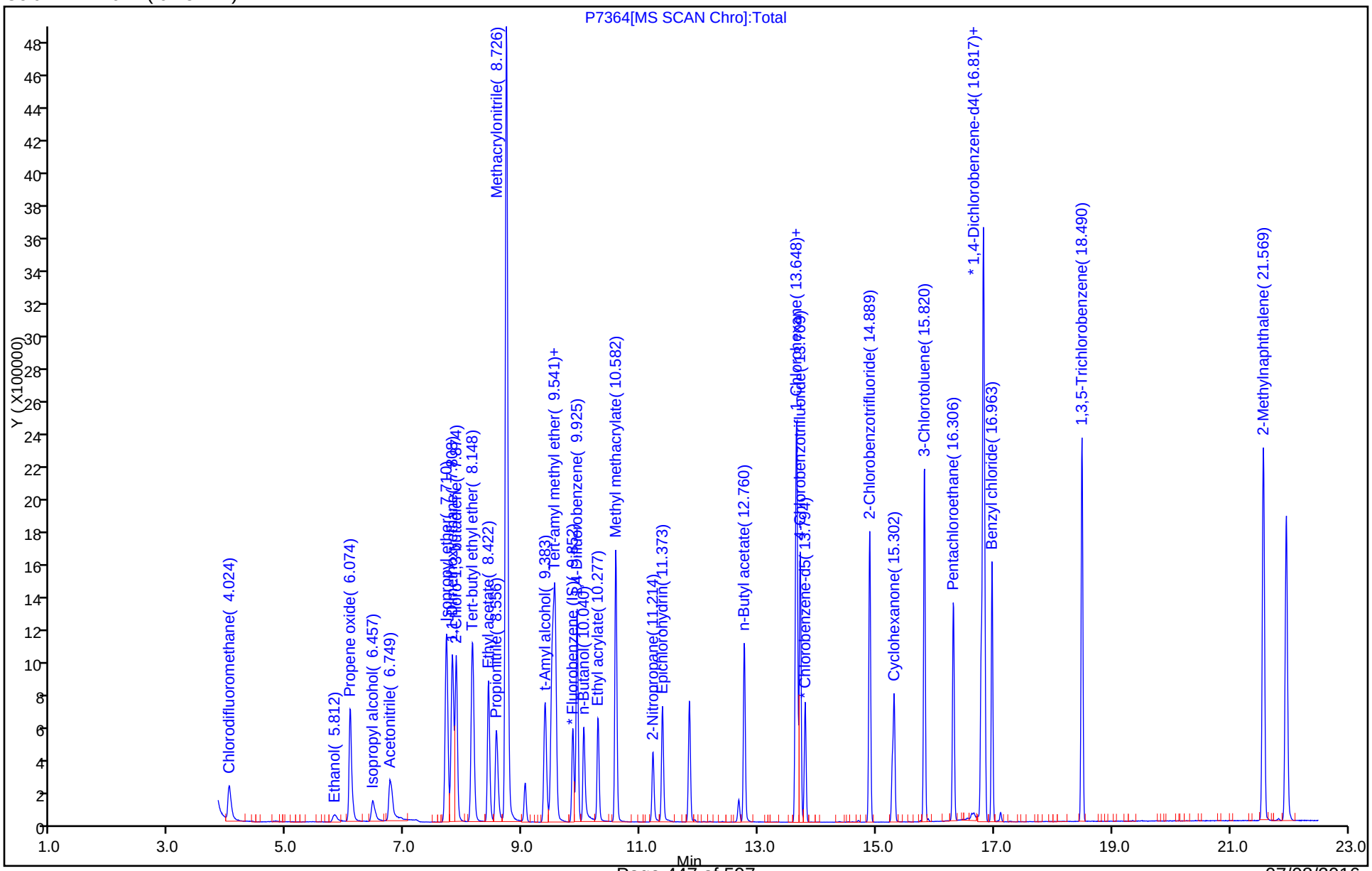
Report Date: 20-Jun-2016 12:37:04 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7364.D

Injection Date:	20-Jun-2016 04:39:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC A6			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

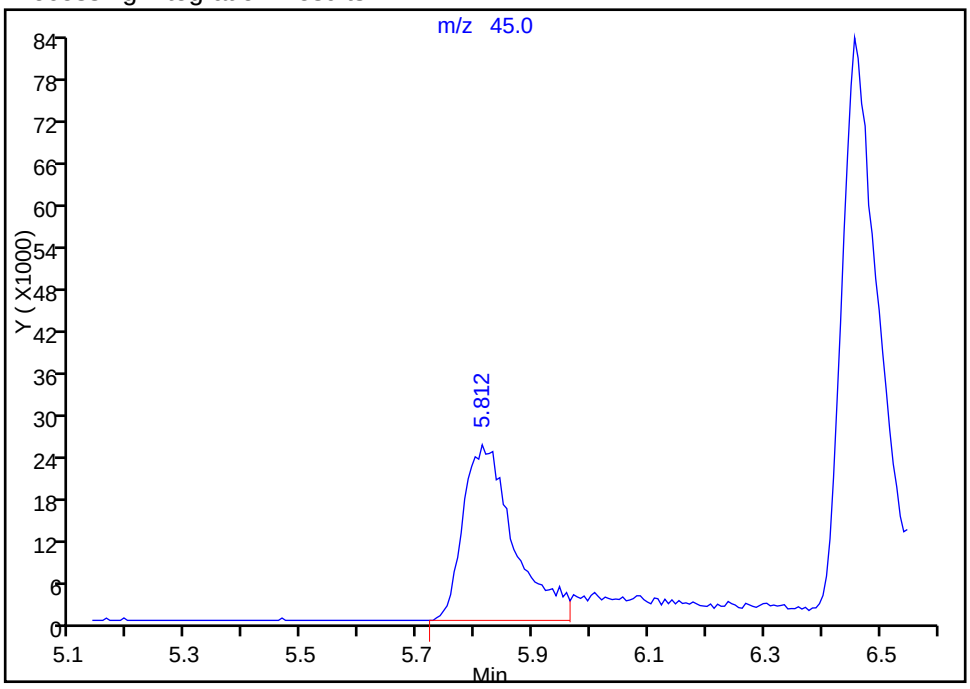
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7364.D
Injection Date: 20-Jun-2016 04:39:30 Instrument ID: HP5973P
Lims ID: IC A6
Client ID:
Operator ID: NMD ALS Bottle#: 19 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

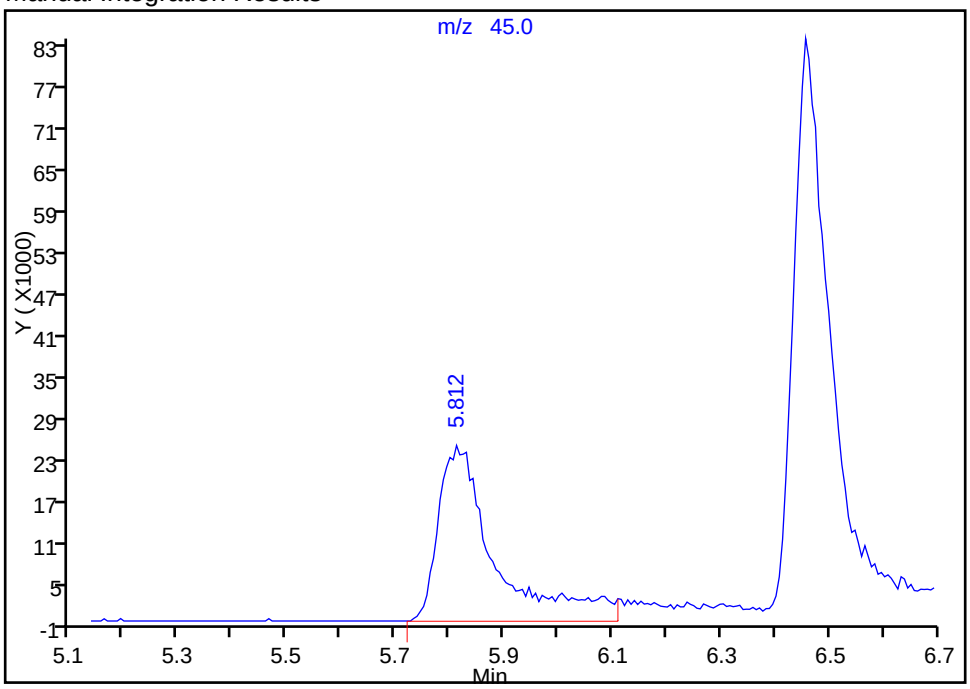
Processing Integration Results

RT: 5.81
Area: 152749
Amount: 1770.9112
Amount Units: ug/L



Manual Integration Results

RT: 5.81
Area: 181301
Amount: 2021.6112
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:56:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

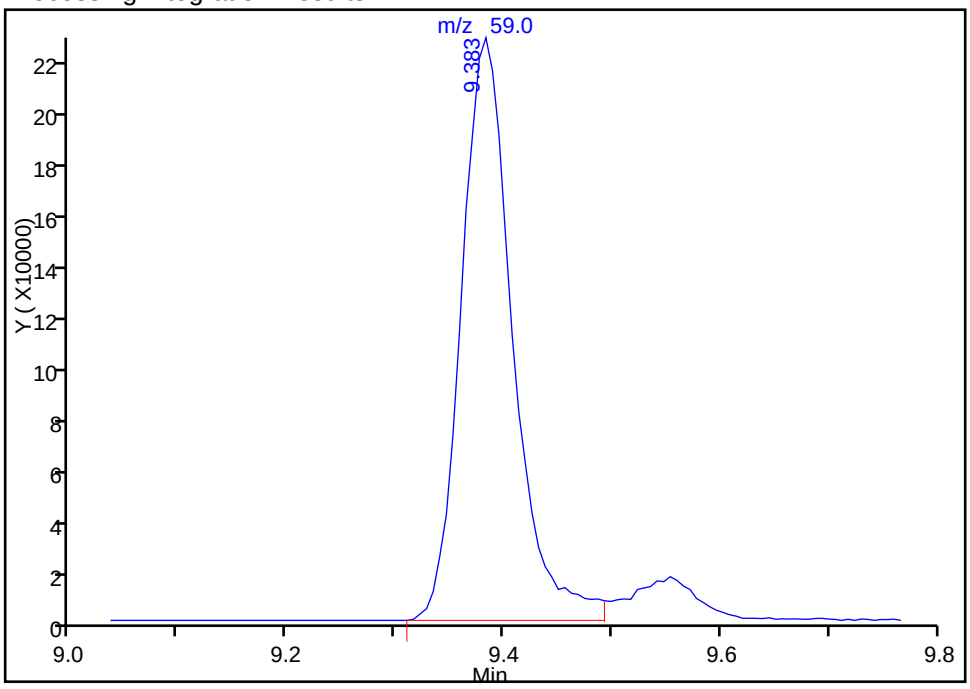
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7364.D
Injection Date: 20-Jun-2016 04:39:30 Instrument ID: HP5973P
Lims ID: IC A6
Client ID:
Operator ID: NMD ALS Bottle#: 19 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

140 t-Amyl alcohol, CAS: 75-85-4

Signal: 1

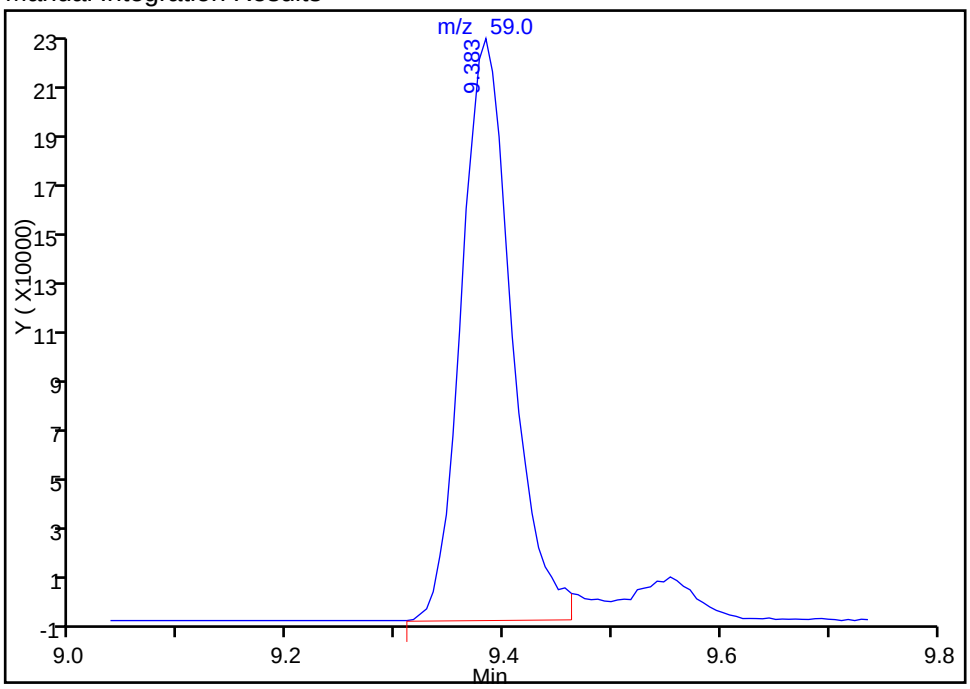
Processing Integration Results

RT: 9.38
Area: 732256
Amount: 510.4103
Amount Units: ug/L



Manual Integration Results

RT: 9.38
Area: 716905
Amount: 502.0231
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 12:00:25
Audit Action: Manually Integrated Audit Reason: Other

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D
Lims ID: IC A7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Jun-2016 05:07:30 ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC A7
Misc. Info.: 480-0054167-018
Operator ID: NMD Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub28

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2016 12:37:06 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: cwiklinc Date: 20-Jun-2016 11:34:59

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	9.852	9.852	0.000	99	139193	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	283541	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	341929	25.0	25.0	
15 Chlorodifluoromethane	51	4.030	4.024	0.006	98	1159607	100.0	91.4	
141 Ethanol	45	5.818	5.812	0.006	98	455406	4000.0	4930.1	M
26 Propene oxide	58	6.074	6.074	0.000	96	1650748	NC	NC	
23 Isopropyl alcohol	45	6.463	6.451	0.012	99	1022962	1000.0	1184.8	
29 Acetonitrile	40	6.761	6.749	0.012	99	811730	1000.0	896.2	
37 Isopropyl ether	45	7.710	7.710	0.000	96	3404449	100.0	93.2	
39 1,1-Dimethoxyethane	75	7.814	7.808	0.006	97	1436042	500.0	514.2	
41 2-Chloro-1,3-butadiene	53	7.875	7.875	0.000	94	1673098	100.0	96.2	
42 Tert-butyl ethyl ether	59	8.148	8.148	0.000	99	3255395	100.0	94.3	
46 Ethyl acetate	43	8.422	8.422	0.000	99	2961926	200.0	187.6	
47 Propionitrile	54	8.562	8.556	0.006	99	2132659	1000.0	959.4	
48 Methacrylonitrile	41	8.726	8.726	0.000	92	6599571	1000.0	734.3	
140 t-Amyl alcohol	59	9.383	9.383	0.000	94	1662475	1000.0	1130.3	M
146 Isooctane	57	9.511	9.511	0.000	97	2942507	100.0	92.1	
58 Tert-amyl methyl ether	73	9.554	9.554	0.000	97	2811819	100.0	93.7	
1 1,4-Difluorobenzene	114	9.925	9.925	0.000	94	2967583	100.0	92.0	
61 n-Butanol	56	10.040	10.040	0.000	89	1140079	2500.0	3640.8	
145 Ethyl acrylate	55	10.278	10.278	0.000	99	1762817	100.0	105.1	
65 Methyl methacrylate	41	10.582	10.582	0.000	93	2149498	200.0	184.5	
72 2-Nitropropane	43	11.215	11.208	0.007	99	834473	200.0	215.2	
74 Epichlorohydrin	57	11.373	11.373	0.000	100	1720869	1000.0	981.7	
149 n-Butyl acetate	43	12.760	12.760	0.000	99	2179232	100.0	99.1	
84 3-Chlorobenzotrifluoride	180	13.642	13.642	0.000	94	1651815	100.0	98.5	
139 1-Chlorohexane	55	13.654	13.654	0.000	97	880690	100.0	92.4	
86 4-Chlorobenzotrifluoride	180	13.709	13.709	0.000	95	1542268	100.0	95.2	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	98	1736849	100.0	99.2	
96 Cyclohexanone	55	15.272	15.278	-0.006	94	528626	1000.0	1117.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
104 3-Chlorotoluene	126	15.820	15.820	0.000	97	1122076	100.0	96.7	
108 Pentachloroethane	167	16.313	16.306	0.007	89	773606	100.0	113.5	
113 1,2,3-Trimethylbenzene	105	16.811	16.817	-0.006	98	3985567	100.0	91.8	
114 Dicyclopentadiene	66	16.836	16.836	0.000	97	3275709	100.0	93.5	
143 Benzyl chloride	126	16.963	16.963	0.000	99	581391	100.0	115.9	
118 1,3,5-Trichlorobenzene	180	18.490	18.490	0.000	98	2098284	100.0	98.9	
142 2-Methylnaphthalene	142	21.569	21.569	0.000	93	4109174	100.0	101.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00048	Amount Added: 50.00	Units: uL
P 8260 IS_00149	Amount Added: 1.25	Units: uL

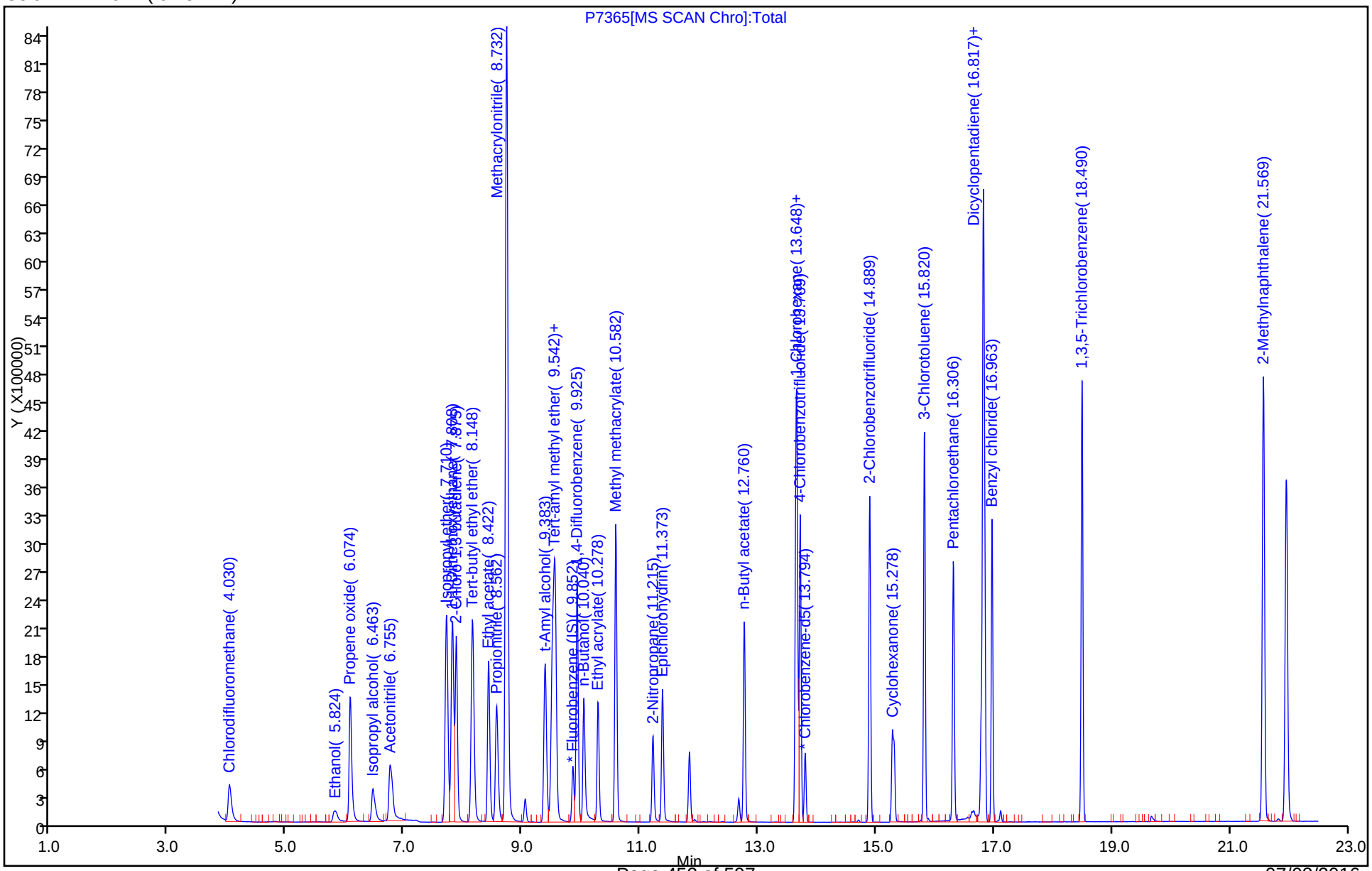
Report Date: 20-Jun-2016 12:37:07 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Injection Date:	20-Jun-2016 05:07:30	Instrument ID:	HP5973P	Operator ID:	NMD
Lims ID:	IC A7			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

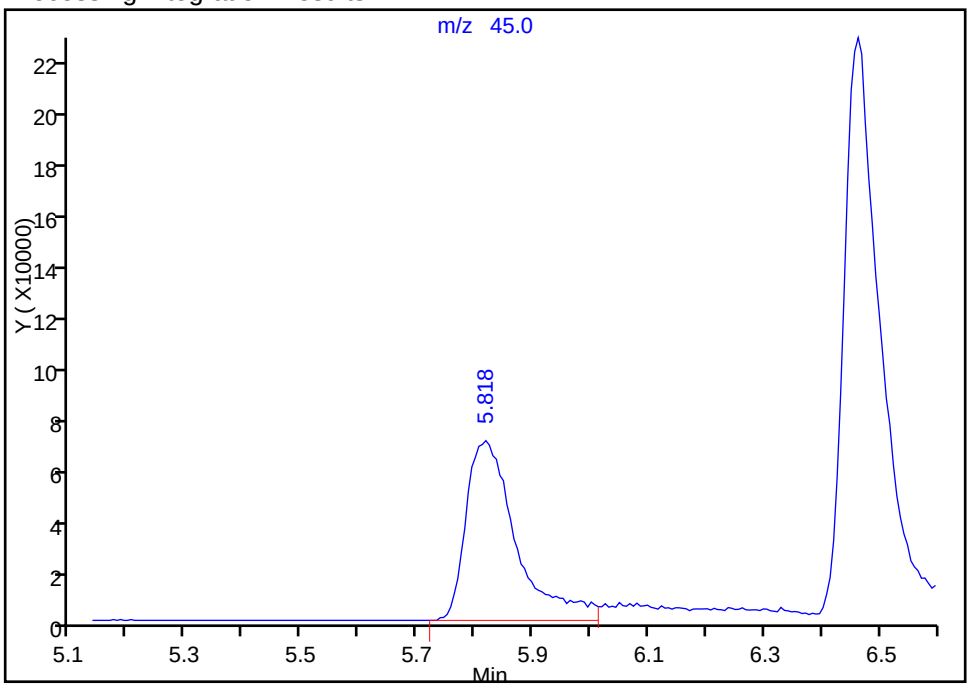
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D
Injection Date: 20-Jun-2016 05:07:30 Instrument ID: HP5973P
Lims ID: IC A7
Client ID:
Operator ID: NMD ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

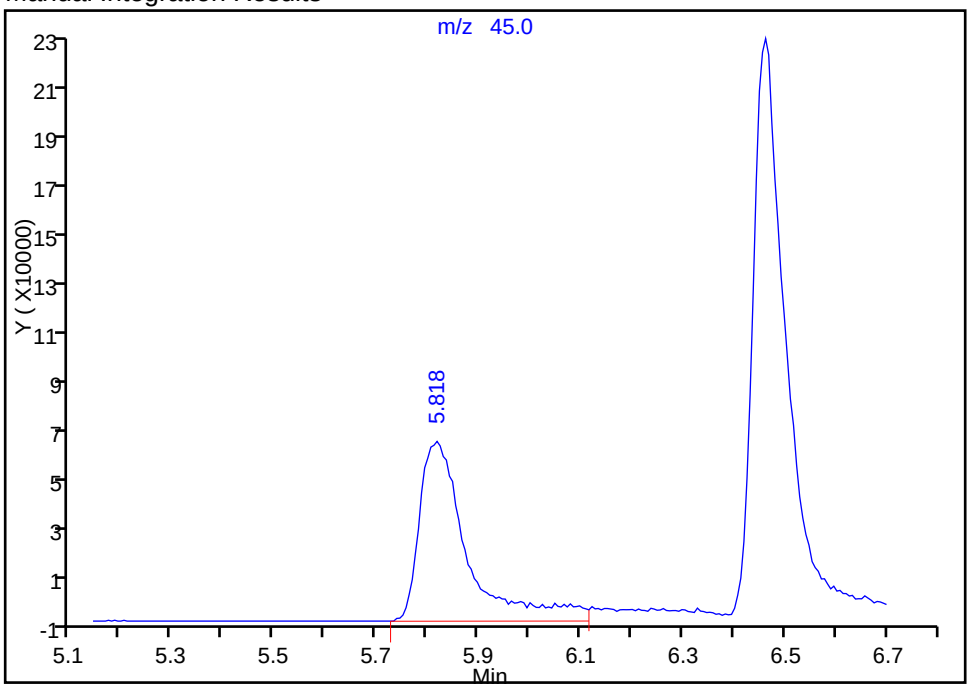
Processing Integration Results

RT: 5.82
Area: 420312
Amount: 4798.6688
Amount Units: ug/L



Manual Integration Results

RT: 5.82
Area: 455406
Amount: 4930.1062
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 11:56:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

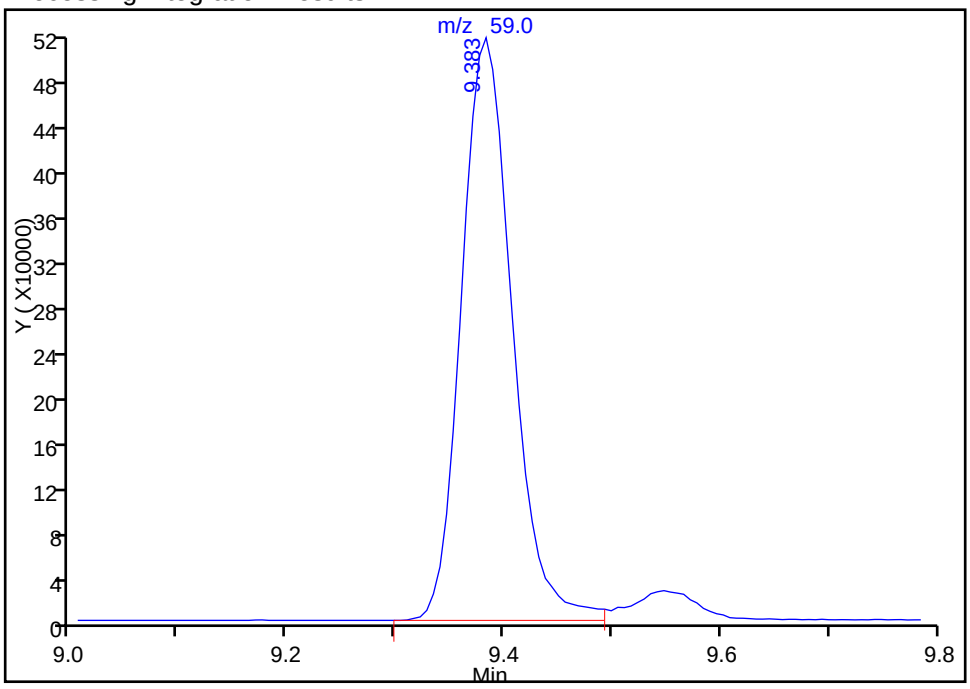
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D
Injection Date: 20-Jun-2016 05:07:30 Instrument ID: HP5973P
Lims ID: IC A7
Client ID:
Operator ID: NMD ALS Bottle#: 20 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

140 t-Amyl alcohol, CAS: 75-85-4

Signal: 1

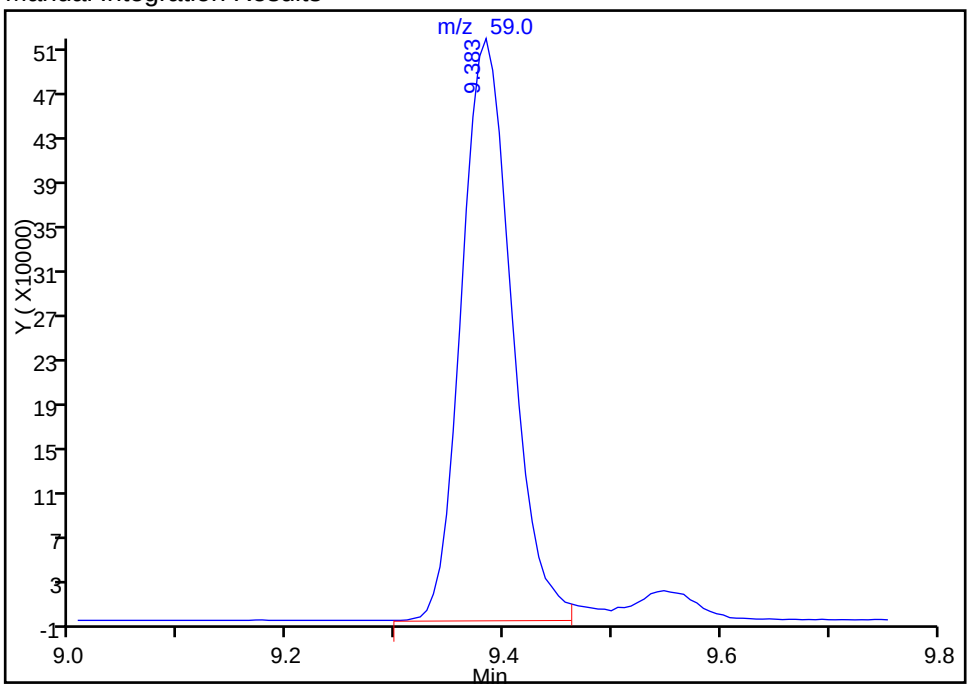
Processing Integration Results

RT: 9.38
Area: 1678510
Amount: 1139.3844
Amount Units: ug/L



Manual Integration Results

RT: 9.38
Area: 1662475
Amount: 1130.2572
Amount Units: ug/L



Reviewer: cwiklinc, 20-Jun-2016 12:00:47
Audit Action: Manually Integrated Audit Reason: Other

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCVIS 480-309812/2 Calibration Date: 07/05/2016 21:51

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7806.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	2.258	2.098	0.1000	23.2	25.0	-7.1	50.0
Chloromethane	Ave	1.691	1.466	0.1000	21.7	25.0	-13.3	20.0
Vinyl chloride	Ave	1.420	1.241	0.1000	21.8	25.0	-12.6	20.0
Butadiene	Ave	1.265	1.140		22.5	25.0	-9.9	20.0
Bromomethane	Ave	1.041	1.247	0.1000	29.9	25.0	19.7	50.0
Chloroethane	Ave	1.083	1.014	0.1000	23.4	25.0	-6.3	50.0
Dichlorofluoromethane	Ave	3.148	3.110		24.7	25.0	-1.2	20.0
Trichlorofluoromethane	Ave	3.199	3.259	0.1000	25.5	25.0	1.9	20.0
Ethyl ether	Ave	1.751	1.637		23.4	25.0	-6.5	20.0
Acrolein	Ave	0.5029	0.3973		98.7	125	-21.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.865	1.715	0.1000	23.0	25.0	-8.1	20.0
1,1-Dichloroethene	Ave	1.652	1.521	0.1000	23.0	25.0	-7.9	20.0
Acetone	Ave	0.8576	0.9879	0.1000	144	125	15.2	50.0
Iodomethane	Ave	3.172	3.055		24.1	25.0	-3.7	20.0
Carbon disulfide	Ave	5.367	5.059	0.1000	23.6	25.0	-5.7	20.0
Methyl acetate	Ave	2.357	2.033	0.1000	108	125	-13.7	50.0
Allyl chloride	Ave	3.048	2.762		22.7	25.0	-9.4	20.0
Methylene Chloride	Lin1		1.660	0.1000	25.1	25.0	0.4	20.0
2-Methyl-2-propanol	Ave	0.3419	0.4017		294	250	17.5	50.0
Methyl tert-butyl ether	Ave	5.701	5.591	0.1000	24.5	25.0	-1.9	20.0
Acrylonitrile	Ave	1.135	0.997		220	250	-12.1	20.0
trans-1,2-Dichloroethene	Ave	1.769	1.624	0.1000	23.0	25.0	-8.2	20.0
Hexane	Ave	2.696	2.241		20.8	25.0	-16.9	20.0
Vinyl acetate	Ave	4.373	4.335		49.6	50.0	-0.9	20.0
1,1-Dichloroethane	Ave	3.381	3.124	0.2000	23.1	25.0	-7.6	20.0
2-Butanone (MEK)	Ave	1.425	1.376	0.1000	121	125	-3.4	20.0
2,2-Dichloropropane	Ave	2.600	2.613		25.1	25.0	0.5	20.0
cis-1,2-Dichloroethene	Ave	1.979	1.831	0.1000	23.1	25.0	-7.5	20.0
Chlorobromomethane	Ave	1.023	0.9432		23.0	25.0	-7.8	20.0
Tetrahydrofuran	Lin1		0.8607		48.1	50.0	-3.8	20.0
Chloroform	Ave	3.134	3.002	0.2000	24.0	25.0	-4.2	20.0
1,1,1-Trichloroethane	Ave	2.932	2.790	0.1000	23.8	25.0	-4.8	20.0
Cyclohexane	Ave	3.386	3.128	0.1000	23.1	25.0	-7.6	20.0
Isobutyl alcohol	Lin1		0.1464		806	625	28.9	50.0
1,1-Dichloropropene	Ave	2.362	2.153		22.8	25.0	-8.9	20.0
Carbon tetrachloride	Ave	2.550	2.589	0.1000	25.4	25.0	1.5	20.0
Benzene	Ave	6.789	6.014	0.5000	22.1	25.0	-11.4	20.0
1,2-Dichloroethane	Ave	2.996	2.869	0.1000	23.9	25.0	-4.3	20.0
n-Heptane	Lin1		2.089		23.0	25.0	-8.1	20.0
Trichloroethene	Ave	1.853	1.701	0.2000	23.0	25.0	-8.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCVIS 480-309812/2 Calibration Date: 07/05/2016 21:51

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7806.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	2.797	2.431	0.1000	21.7	25.0	-13.1	20.0
1,2-Dichloropropane	Ave	1.758	1.630	0.1000	23.2	25.0	-7.3	20.0
1,4-Dioxane	Ave	0.0094	0.0112		593	500	18.5	50.0
Dibromomethane	Ave	1.288	1.206	0.1000	23.4	25.0	-6.4	20.0
Bromodichloromethane	Ave	2.156	2.182	0.2000	25.3	25.0	1.2	20.0
2-Chloroethyl vinyl ether	Ave	1.259	1.195		23.7	25.0	-5.1	20.0
cis-1,3-Dichloropropene	Ave	2.600	2.524	0.2000	24.3	25.0	-2.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.367	1.260	0.1000	115	125	-7.9	20.0
Toluene	Lin1		1.913	0.4000	24.0	25.0	-3.9	20.0
Ethyl methacrylate	Ave	1.029	1.024		24.9	25.0	-0.5	20.0
trans-1,3-Dichloropropene	Ave	1.217	1.212	0.1000	24.9	25.0	-0.4	20.0
1,1,2-Trichloroethane	Ave	0.6657	0.5902	0.1000	22.2	25.0	-11.3	20.0
Tetrachloroethene	Ave	1.010	0.8984	0.2000	22.2	25.0	-11.0	20.0
2-Hexanone	Ave	0.9548	0.8967	0.1000	117	125	-6.1	20.0
1,3-Dichloropropane	Ave	1.331	1.215		22.8	25.0	-8.7	20.0
Dibromochloromethane	Ave	0.8407	0.8725	0.1000	25.9	25.0	3.8	20.0
1,2-Dibromoethane	Ave	0.8510	0.8027		23.6	25.0	-5.7	20.0
Chlorobenzene	Ave	2.621	2.318	0.5000	22.1	25.0	-11.5	20.0
Ethylbenzene	Ave	4.007	3.646	0.1000	22.7	25.0	-9.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8657	0.8863		25.6	25.0	2.4	20.0
m,p-Xylene	Ave	1.487	1.401	0.1000	23.6	25.0	-5.8	20.0
o-Xylene	Ave	1.508	1.433	0.3000	23.8	25.0	-5.0	20.0
Styrene	Ave	2.250	2.221	0.3000	24.7	25.0	-1.3	20.0
Bromoform	Ave	0.6637	0.6479	0.1000	24.4	25.0	-2.4	50.0
Isopropylbenzene	Ave	3.238	2.952	0.1000	22.8	25.0	-8.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.057	0.9371	0.3000	22.2	25.0	-11.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4206	0.3719		22.1	25.0	-11.6	50.0
1,2,3-Trichloropropane	Ave	0.3134	0.3003		24.0	25.0	-4.2	20.0
Bromobenzene	Ave	0.9822	0.9056		23.0	25.0	-7.8	20.0
N-Propylbenzene	Ave	4.009	3.599		22.4	25.0	-10.2	20.0
2-Chlorotoluene	Ave	0.8390	0.7481		22.3	25.0	-10.8	20.0
1,3,5-Trimethylbenzene	Ave	2.750	2.591		23.6	25.0	-5.8	20.0
4-Chlorotoluene	Ave	0.8665	0.7833		22.6	25.0	-9.6	20.0
tert-Butylbenzene	Ave	0.6360	0.5816		22.9	25.0	-8.5	20.0
1,2,4-Trimethylbenzene	Ave	2.866	2.745		23.9	25.0	-4.2	20.0
sec-Butylbenzene	Ave	3.518	3.188		22.7	25.0	-9.4	20.0
4-Isopropyltoluene	Ave	3.132	2.936		23.4	25.0	-6.3	20.0
1,3-Dichlorobenzene	Ave	1.823	1.623	0.6000	22.2	25.0	-11.0	20.0
1,4-Dichlorobenzene	Ave	1.847	1.609	0.5000	21.8	25.0	-12.9	20.0
n-Butylbenzene	Ave	2.867	2.541		22.2	25.0	-11.4	20.0
1,2-Dichlorobenzene	Ave	1.859	1.644	0.4000	22.1	25.0	-11.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCVIS 480-309812/2 Calibration Date: 07/05/2016 21:51

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7806.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	0.2666	0.2427	0.0500	22.8	25.0	-9.0	50.0
1,2,4-Trichlorobenzene	Ave	1.543	1.409	0.2000	22.8	25.0	-8.6	20.0
Hexachlorobutadiene	Ave	0.7121	0.6066		21.3	25.0	-14.8	20.0
Naphthalene	Ave	4.111	3.891		23.7	25.0	-5.4	20.0
1,2,3-Trichlorobenzene	Ave	1.499	1.396		23.3	25.0	-6.8	20.0
Dibromofluoromethane (Surr)	Ave	1.433	1.482		25.9	25.0	3.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8911	0.8881		24.9	25.0	-0.3	20.0
Toluene-d8 (Surr)	Ave	2.394	2.288		23.9	25.0	-4.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9094	0.8874		24.4	25.0	-2.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7806.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Jul-2016 21:51:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvis
Misc. Info.: 480-0054594-002
Operator ID: SY Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Jul-2016 22:11:28 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: youngmans Date: 05-Jul-2016 22:11:28

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	9.852	9.852	0.000	98	112761	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	85	234674	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	288306	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.036	9.036	0.000	93	167102	25.0	25.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.481	0.000	0	100140	25.0	24.9	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	93	536857	25.0	23.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	95	208257	25.0	24.4	
10 Dichlorodifluoromethane	85	4.017	4.017	0.000	99	236534	25.0	23.2	
11 Chloromethane	50	4.322	4.322	0.000	98	165344	25.0	21.7	
17 Vinyl chloride	62	4.553	4.553	0.000	98	139916	25.0	21.8	
144 Butadiene	54	4.565	4.565	0.000	92	128496	25.0	22.5	
12 Bromomethane	94	5.094	5.094	0.000	93	140598	25.0	29.9	
13 Chloroethane	64	5.228	5.228	0.000	98	114362	25.0	23.4	
19 Dichlorofluoromethane	67	5.514	5.514	0.000	97	350694	25.0	24.7	
14 Trichlorofluoromethane	101	5.636	5.636	0.000	98	367487	25.0	25.5	
20 Ethyl ether	59	5.922	5.922	0.000	97	184552	25.0	23.4	
22 Acrolein	56	6.171	6.171	0.000	99	224012	125.0	98.7	
16 1,1,2-Trichloro-1,2,2-trif	101	6.274	6.274	0.000	90	193354	25.0	23.0	
25 1,1-Dichloroethene	96	6.311	6.311	0.000	95	171542	25.0	23.0	
24 Acetone	43	6.354	6.354	0.000	98	557007	125.0	144.0	
18 Iodomethane	142	6.579	6.579	0.000	99	344521	25.0	24.1	
27 Carbon disulfide	76	6.694	6.694	0.000	100	570417	25.0	23.6	
30 Methyl acetate	43	6.731	6.731	0.000	99	1146346	125.0	107.8	
28 3-Chloro-1-propene	41	6.761	6.761	0.000	87	311499	25.0	22.7	
31 Methylene Chloride	84	6.938	6.938	0.000	97	187187	25.0	25.1	
33 2-Methyl-2-propanol	59	6.968	6.968	0.000	98	452941	250.0	293.8	
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	98	630424	25.0	24.5	
34 Acrylonitrile	53	7.230	7.230	0.000	99	1124673	250.0	219.7	
35 trans-1,2-Dichloroethene	96	7.254	7.254	0.000	94	183127	25.0	23.0	
36 Hexane	57	7.491	7.491	0.000	94	252737	25.0	20.8	

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	7.728	7.728	0.000	97	977545	50.0	49.6	
40 1,1-Dichloroethane	63	7.783	7.783	0.000	97	352285	25.0	23.1	
44 2-Butanone (MEK)	43	8.428	8.428	0.000	99	775815	125.0	120.7	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	85	206432	25.0	23.1	
45 2,2-Dichloropropane	77	8.483	8.483	0.000	62	294596	25.0	25.1	
50 Chlorobromomethane	128	8.799	8.799	0.000	96	106359	25.0	23.0	
51 Tetrahydrofuran	42	8.830	8.830	0.000	90	194111	50.0	48.1	
49 Chloroform	83	8.836	8.836	0.000	95	338542	25.0	24.0	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	98	314566	25.0	23.8	
54 Cyclohexane	56	9.164	9.164	0.000	93	352711	25.0	23.1	
53 Isobutyl alcohol	43	9.243	9.243	0.000	94	412754	625.0	805.8	
56 1,1-Dichloropropene	75	9.274	9.274	0.000	92	242767	25.0	22.8	
55 Carbon tetrachloride	117	9.298	9.298	0.000	96	291924	25.0	25.4	
57 Benzene	78	9.547	9.547	0.000	98	678137	25.0	22.1	
60 1,2-Dichloroethane	62	9.572	9.572	0.000	98	323520	25.0	23.9	
59 n-Heptane	43	9.669	9.669	0.000	95	235549	25.0	23.0	
62 Trichloroethene	95	10.302	10.302	0.000	94	191852	25.0	23.0	
64 Methylcyclohexane	83	10.539	10.539	0.000	95	274071	25.0	21.7	
63 1,2-Dichloropropane	63	10.612	10.612	0.000	93	183845	25.0	23.2	
68 1,4-Dioxane	88	10.734	10.734	0.000	99	52559	500.0	592.6	
69 Dibromomethane	93	10.801	10.801	0.000	94	135972	25.0	23.4	
70 Dichlorobromomethane	83	10.941	10.941	0.000	98	246045	25.0	25.3	
71 2-Chloroethyl vinyl ether	63	11.202	11.202	0.000	94	134714	25.0	23.7	
73 cis-1,3-Dichloropropene	75	11.476	11.476	0.000	92	284633	25.0	24.3	
75 4-Methyl-2-pentanone (MIBK	43	11.585	11.585	0.000	98	1478005	125.0	115.2	
76 Toluene	92	11.920	11.920	0.000	98	448855	25.0	24.0	
77 Ethyl methacrylate	69	12.145	12.145	0.000	93	240217	25.0	24.9	
78 trans-1,3-Dichloropropene	75	12.176	12.176	0.000	96	284500	25.0	24.9	
79 1,1,2-Trichloroethane	83	12.461	12.461	0.000	93	138513	25.0	22.2	
80 Tetrachloroethene	166	12.668	12.668	0.000	97	210838	25.0	22.2	
83 2-Hexanone	43	12.674	12.674	0.000	98	1052120	125.0	117.4	
82 1,3-Dichloropropane	76	12.699	12.699	0.000	96	285191	25.0	22.8	
81 Chlorodibromomethane	129	13.045	13.045	0.000	90	204753	25.0	25.9	
85 Ethylene Dibromide	107	13.240	13.240	0.000	98	188381	25.0	23.6	
87 Chlorobenzene	112	13.836	13.836	0.000	95	543936	25.0	22.1	
89 Ethylbenzene	91	13.897	13.897	0.000	99	855579	25.0	22.7	
88 1,1,1,2-Tetrachloroethane	131	13.915	13.915	0.000	93	207987	25.0	25.6	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	328803	25.0	23.6	
93 o-Xylene	106	14.591	14.591	0.000	97	336293	25.0	23.8	
94 Styrene	104	14.609	14.609	0.000	95	521226	25.0	24.7	
92 Bromoform	173	14.962	14.962	0.000	97	152052	25.0	24.4	
95 Isopropylbenzene	105	15.035	15.035	0.000	96	851179	25.0	22.8	
97 1,1,2,2-Tetrachloroethane	83	15.455	15.455	0.000	98	270160	25.0	22.2	
98 trans-1,4-Dichloro-2-buten	53	15.509	15.509	0.000	82	107229	25.0	22.1	
101 1,2,3-Trichloropropane	110	15.546	15.546	0.000	75	86575	25.0	24.0	
100 Bromobenzene	156	15.552	15.552	0.000	93	261077	25.0	23.0	
99 N-Propylbenzene	91	15.558	15.558	0.000	98	1037627	25.0	22.4	
103 2-Chlorotoluene	126	15.753	15.753	0.000	95	215673	25.0	22.3	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	746896	25.0	23.6	
105 4-Chlorotoluene	126	15.880	15.880	0.000	98	225825	25.0	22.6	
106 tert-Butylbenzene	134	16.197	16.197	0.000	92	167690	25.0	22.9	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	791371	25.0	23.9	

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	16.464	16.464	0.000	95	919139	25.0	22.7	
112 4-Isopropyltoluene	119	16.617	16.617	0.000	97	846461	25.0	23.4	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	97	467846	25.0	22.2	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	93	464000	25.0	21.8	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	732719	25.0	22.2	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	474061	25.0	22.1	
117 1,2-Dibromo-3-Chloropropan	75	18.277	18.277	0.000	85	69974	25.0	22.8	
119 1,2,4-Trichlorobenzene	180	19.354	19.354	0.000	94	406320	25.0	22.8	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	95	174881	25.0	21.3	
121 Naphthalene	128	19.750	19.750	0.000	97	1121716	25.0	23.7	
122 1,2,3-Trichlorobenzene	180	20.109	20.109	0.000	95	402616	25.0	23.3	

Reagents:

8260 CORP mix_00077	Amount Added: 12.50	Units: uL	
GAS CORP mix_00163	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

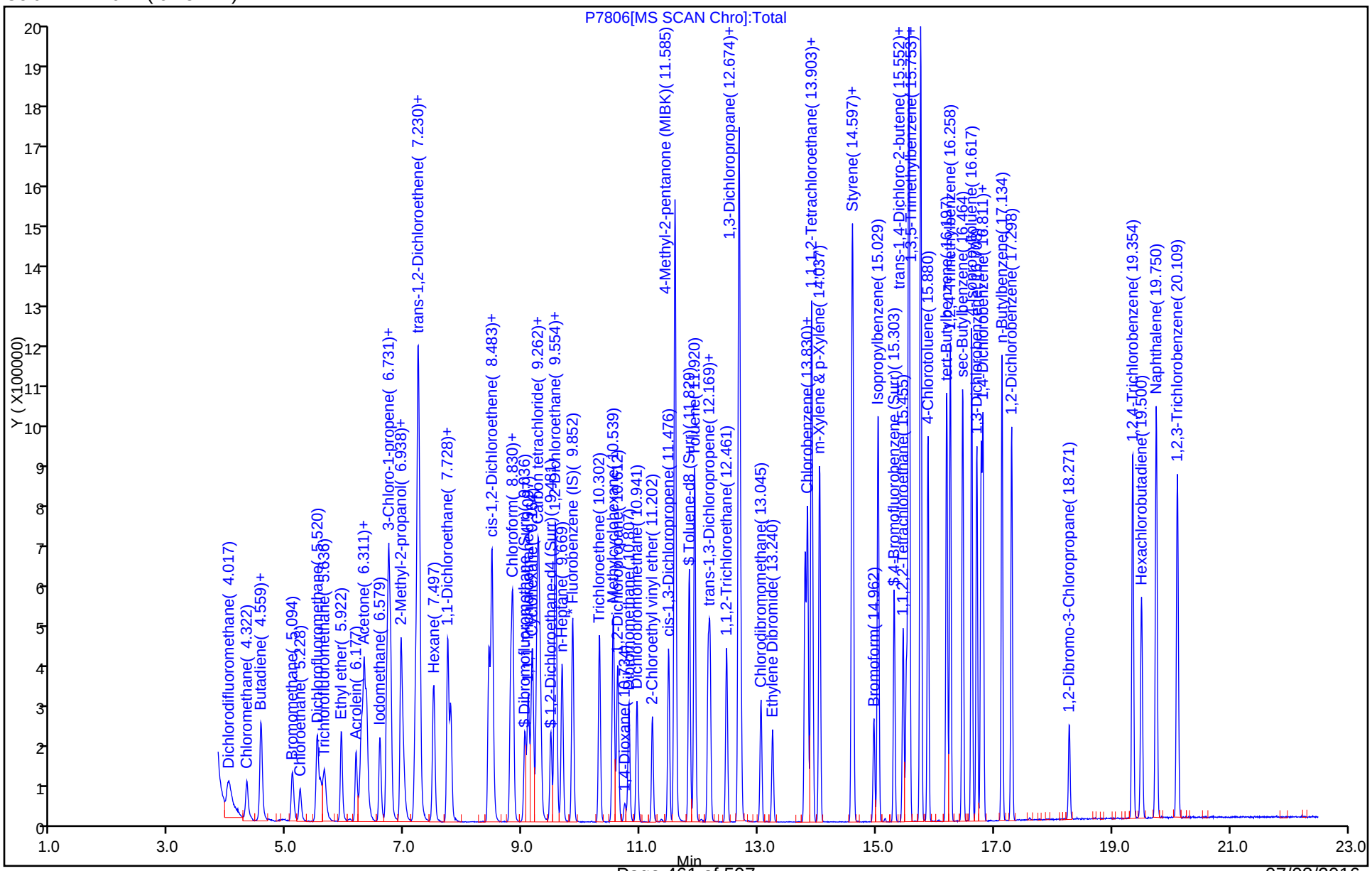
Report Date: 05-Jul-2016 22:11:29 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7806.D

Injection Date:	05-Jul-2016 21:51:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCV 480-309812/3 Calibration Date: 07/05/2016 22:18

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7807.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
Dibromofluoromethane (Surr)	Ave	1.433	1.427		24.9	25.0	-0.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8911	0.9371		26.3	25.0	5.2	20.0
Toluene-d8 (Surr)	Ave	2.394	2.265		23.7	25.0	-5.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9094	0.8879		24.4	25.0	-2.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7807.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 05-Jul-2016 22:18:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccv
Misc. Info.: 480-0054594-003
Operator ID: SY Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub29

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 00:11:06 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: youngmans Date: 06-Jul-2016 00:11:05

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	9.852	9.852	0.000	99	115387	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	243846	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	93	301041	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	93	164707	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.481	0.000	0	108125	25.0	26.3	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	552319	25.0	23.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	94	216518	25.0	24.4	
15 Chlorodifluoromethane	51	4.024	4.024	0.000	97	197075	25.0	18.7	
141 Ethanol	45	5.800	5.800	0.000	100	114365	1000.0	1493.5	
26 Propene oxide	58	6.080	6.080	0.000	96	335493	NC	NC	
23 Isopropyl alcohol	45	6.463	6.463	0.000	98	225999	250.0	315.8	
29 Acetonitrile	40	6.755	6.755	0.000	98	197759	250.0	263.4	
37 Isopropyl ether	45	7.710	7.710	0.000	96	682400	25.0	22.5	
39 1,1-Dimethoxyethane	75	7.814	7.814	0.000	97	279836	125.0	120.9	
41 2-Chloro-1,3-butadiene	53	7.875	7.875	0.000	95	329468	25.0	22.9	
42 Tert-butyl ethyl ether	59	8.148	8.148	0.000	100	658034	25.0	23.0	
46 Ethyl acetate	43	8.422	8.422	0.000	100	612755	50.0	46.8	
47 Propionitrile	54	8.556	8.556	0.000	98	451116	250.0	244.8	
48 Methacrylonitrile	41	8.726	8.726	0.000	94	1587586	250.0	213.1	
140 t-Amyl alcohol	59	9.389	9.389	0.000	95	320536	250.0	262.9	
146 Isooctane	57	9.511	9.511	0.000	97	537822	25.0	20.3	
58 Tert-amyl methyl ether	73	9.548	9.548	0.000	97	559125	25.0	22.5	
1 1,4-Difluorobenzene	114	9.925	9.925	0.000	94	578965	25.0	21.7	
61 n-Butanol	56	10.040	10.040	0.000	91	212484	625.0	818.6	
145 Ethyl acrylate	55	10.284	10.284	0.000	99	329314	25.0	23.7	
65 Methyl methacrylate	41	10.582	10.582	0.000	94	454185	50.0	47.0	
72 2-Nitropropane	43	11.208	11.208	0.000	99	163112	50.0	48.4	
74 Epichlorohydrin	57	11.373	11.373	0.000	100	342757	250.0	235.9	
149 n-Butyl acetate	43	12.766	12.766	0.000	98	412127	25.0	21.8	
84 3-Chlorobenzotrifluoride	180	13.642	13.642	0.000	94	306398	25.0	20.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	13.660	13.660	0.000	97	175696	25.0	21.4	
86 4-Chlorobenzotrifluoride	180	13.709	13.709	0.000	96	288779	25.0	20.2	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	98	323855	25.0	21.0	
96 Cyclohexanone	55	15.278	15.278	0.000	94	107555	250.0	258.3	
104 3-Chlorotoluene	126	15.820	15.820	0.000	97	225042	25.0	22.0	
108 Pentachloroethane	167	16.313	16.313	0.000	88	149893	25.0	25.0	
113 1,2,3-Trimethylbenzene	105	16.818	16.818	0.000	98	811037	25.0	21.2	
114 Dicyclopentadiene	66	16.836	16.836	0.000	97	628492	25.0	20.4	
143 Benzyl chloride	126	16.964	16.964	0.000	99	115793	25.0	26.2	
118 1,3,5-Trichlorobenzene	180	18.491	18.491	0.000	97	396632	25.0	21.2	
142 2-Methylnaphthalene	142	21.569	21.569	0.000	91	718895	25.0	20.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00048	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

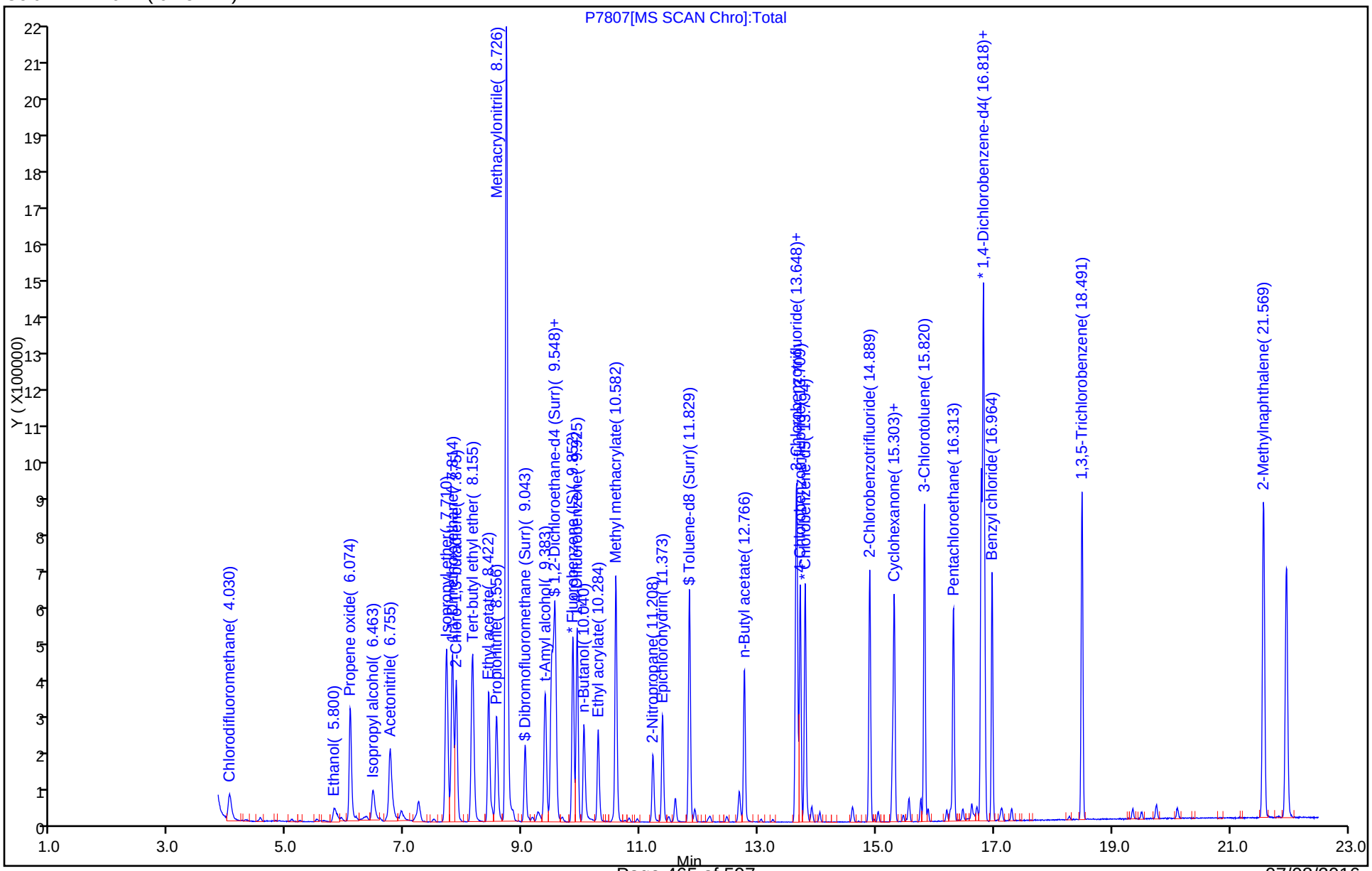
Report Date: 06-Jul-2016 00:11:06 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7807.D

Injection Date:	05-Jul-2016 22:18:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCV 480-309812/3 Calibration Date: 07/05/2016 22:18

Instrument ID: HP5973P Calib Start Date: 06/20/2016 02:23

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 05:07

Lab File ID: P7807.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
Chlorodifluoromethane	Ave	2.279	1.708		18.7	25.0	-25.1*	20.0
Ethanol	Ave	0.0166	0.0248		1490	1000	49.4*	20.0
Isopropyl alcohol	Ave	0.1551	0.1959		316	250	26.3*	20.0
Acetonitrile	Ave	0.1627	0.1714		263	250	5.4	20.0
Isopropyl ether	Ave	6.561	5.914		22.5	25.0	-9.9	20.0
1,1-Dimethoxyethane	Ave	0.5016	0.4850		121	125	-3.3	20.0
Chloroprene	Ave	3.123	2.855		22.9	25.0	-8.6	20.0
Tert-butyl ethyl ether	Ave	6.203	5.703		23.0	25.0	-8.1	20.0
Ethyl acetate	Ave	2.835	2.655		46.8	50.0	-6.3	20.0
Propionitrile	Ave	0.3993	0.3910		245	250	-2.1	20.0
Methacrylonitrile	Ave	1.614	1.376		213	250	-14.8	20.0
t-Amyl alcohol	Ave	0.2642	0.2778		263	250	5.2	20.0
Isooctane	Ave	5.740	4.661		20.3	25.0	-18.8	20.0
Tert-amyl methyl ether	Ave	5.390	4.846		22.5	25.0	-10.1	20.0
1,4-Difluorobenzene	Ave	5.791	5.018		21.7	25.0	-13.4	20.0
n-Butanol	Ave	0.0562	0.0737		819	625	31.0*	20.0
Ethyl acrylate	Ave	3.011	2.854		23.7	25.0	-5.2	20.0
Methyl methacrylate	Ave	2.093	1.968		47.0	50.0	-6.0	20.0
2-Nitropropane	Lin1		0.2709		48.4	50.0	-3.2	20.0
Epichlorohydrin	Ave	0.3149	0.2971		236	250	-5.7	20.0
n-Butyl acetate	Ave	1.939	1.690	0.1000	21.8	25.0	-12.8	20.0
3-Chlorobenzotrifluoride	Ave	1.226	1.018		20.8	25.0	-17.0	20.0
1-Chlorohexane	Ave	0.8403	0.7205		21.4	25.0	-14.2	20.0
4-Chlorobenzotrifluoride	Ave	1.185	0.9593		20.2	25.0	-19.0	20.0
2-Chlorobenzotrifluoride	Ave	1.280	1.076		21.0	25.0	-15.9	20.0
Cyclohexanone	Ave	0.0346	0.0357		258	250	3.3	20.0
3-Chlorotoluene	Ave	0.8487	0.7476		22.0	25.0	-11.9	20.0
Pentachloroethane	Ave	0.4982	0.4979		25.0	25.0	-0.0	20.0
1,2,3-Trimethylbenzene	Ave	3.174	2.694		21.2	25.0	-15.1	20.0
Dicyclopentadiene	Ave	2.562	2.088		20.4	25.0	-18.5	20.0
Benzyl chloride	Ave	0.3669	0.3846		26.2	25.0	4.8	20.0
1,3,5-Trichlorobenzene	Ave	1.551	1.318		21.2	25.0	-15.1	20.0
2-Methylnaphthalene	Lin1		2.388		20.6	25.0	-17.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7807.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 05-Jul-2016 22:18:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccv
Misc. Info.: 480-0054594-003
Operator ID: SY Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub29

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 00:11:06 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: youngmans Date: 06-Jul-2016 00:11:05

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	9.852	9.852	0.000	99	115387	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	243846	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	93	301041	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	93	164707	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.481	0.000	0	108125	25.0	26.3	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	552319	25.0	23.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	94	216518	25.0	24.4	
15 Chlorodifluoromethane	51	4.024	4.024	0.000	97	197075	25.0	18.7	
141 Ethanol	45	5.800	5.800	0.000	100	114365	1000.0	1493.5	
26 Propene oxide	58	6.080	6.080	0.000	96	335493	NC	NC	
23 Isopropyl alcohol	45	6.463	6.463	0.000	98	225999	250.0	315.8	
29 Acetonitrile	40	6.755	6.755	0.000	98	197759	250.0	263.4	
37 Isopropyl ether	45	7.710	7.710	0.000	96	682400	25.0	22.5	
39 1,1-Dimethoxyethane	75	7.814	7.814	0.000	97	279836	125.0	120.9	
41 2-Chloro-1,3-butadiene	53	7.875	7.875	0.000	95	329468	25.0	22.9	
42 Tert-butyl ethyl ether	59	8.148	8.148	0.000	100	658034	25.0	23.0	
46 Ethyl acetate	43	8.422	8.422	0.000	100	612755	50.0	46.8	
47 Propionitrile	54	8.556	8.556	0.000	98	451116	250.0	244.8	
48 Methacrylonitrile	41	8.726	8.726	0.000	94	1587586	250.0	213.1	
140 t-Amyl alcohol	59	9.389	9.389	0.000	95	320536	250.0	262.9	
146 Isooctane	57	9.511	9.511	0.000	97	537822	25.0	20.3	
58 Tert-amyl methyl ether	73	9.548	9.548	0.000	97	559125	25.0	22.5	
1 1,4-Difluorobenzene	114	9.925	9.925	0.000	94	578965	25.0	21.7	
61 n-Butanol	56	10.040	10.040	0.000	91	212484	625.0	818.6	
145 Ethyl acrylate	55	10.284	10.284	0.000	99	329314	25.0	23.7	
65 Methyl methacrylate	41	10.582	10.582	0.000	94	454185	50.0	47.0	
72 2-Nitropropane	43	11.208	11.208	0.000	99	163112	50.0	48.4	
74 Epichlorohydrin	57	11.373	11.373	0.000	100	342757	250.0	235.9	
149 n-Butyl acetate	43	12.766	12.766	0.000	98	412127	25.0	21.8	
84 3-Chlorobenzotrifluoride	180	13.642	13.642	0.000	94	306398	25.0	20.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	13.660	13.660	0.000	97	175696	25.0	21.4	
86 4-Chlorobenzotrifluoride	180	13.709	13.709	0.000	96	288779	25.0	20.2	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	98	323855	25.0	21.0	
96 Cyclohexanone	55	15.278	15.278	0.000	94	107555	250.0	258.3	
104 3-Chlorotoluene	126	15.820	15.820	0.000	97	225042	25.0	22.0	
108 Pentachloroethane	167	16.313	16.313	0.000	88	149893	25.0	25.0	
113 1,2,3-Trimethylbenzene	105	16.818	16.818	0.000	98	811037	25.0	21.2	
114 Dicyclopentadiene	66	16.836	16.836	0.000	97	628492	25.0	20.4	
143 Benzyl chloride	126	16.964	16.964	0.000	99	115793	25.0	26.2	
118 1,3,5-Trichlorobenzene	180	18.491	18.491	0.000	97	396632	25.0	21.2	
142 2-Methylnaphthalene	142	21.569	21.569	0.000	91	718895	25.0	20.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00048	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

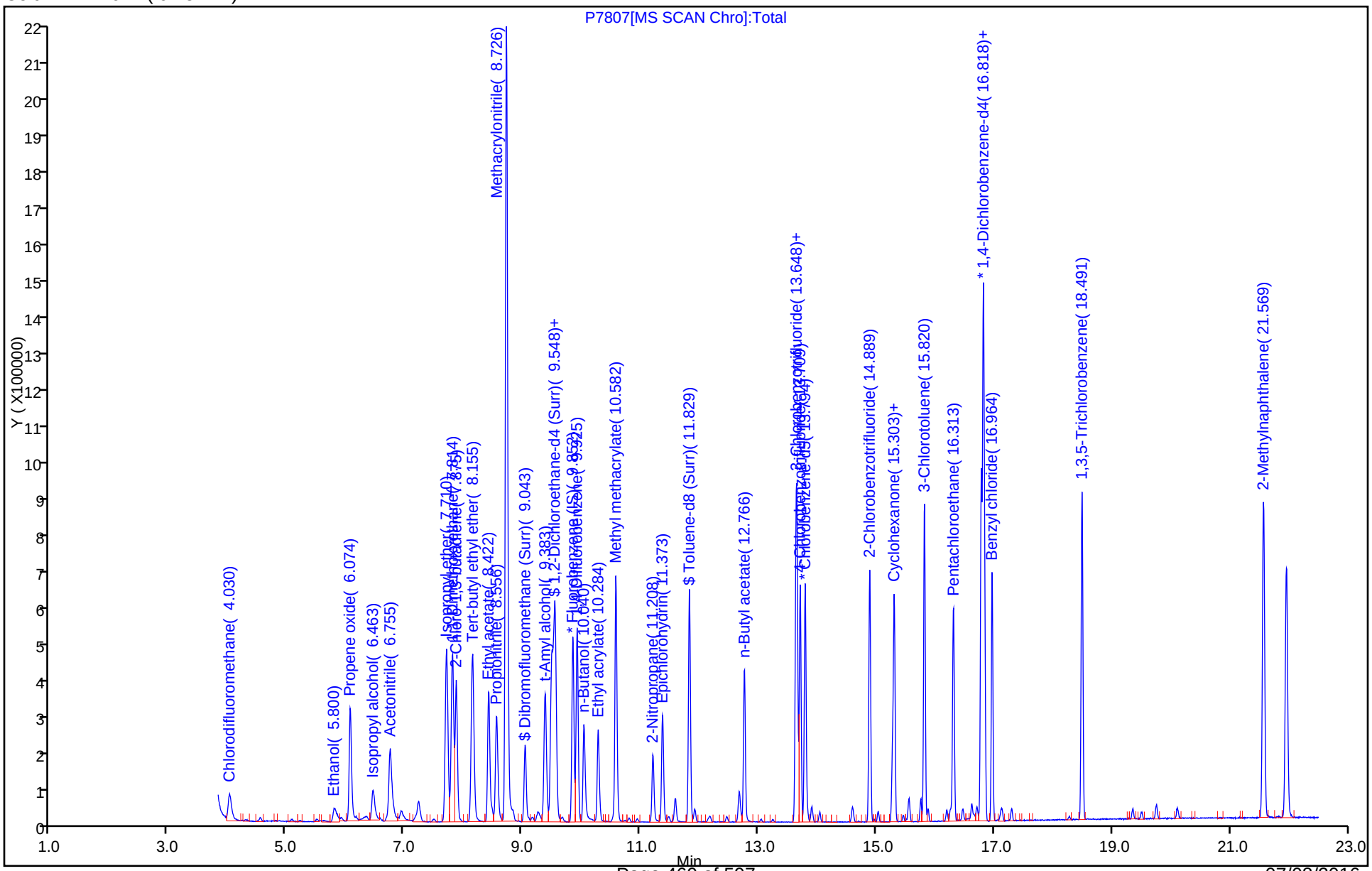
Report Date: 06-Jul-2016 00:11:06 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7807.D

Injection Date:	05-Jul-2016 22:18:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCVIS 480-309873/2 Calibration Date: 07/06/2016 10:24

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7835.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	2.258	2.053	0.1000	22.7	25.0	-9.0	50.0
Chloromethane	Ave	1.691	1.406	0.1000	20.8	25.0	-16.8	20.0
Vinyl chloride	Ave	1.420	1.247	0.1000	22.0	25.0	-12.2	20.0
Butadiene	Ave	1.265	1.263		25.0	25.0	-0.2	20.0
Bromomethane	Ave	1.041	0.9599	0.1000	23.0	25.0	-7.8	50.0
Chloroethane	Ave	1.083	1.002	0.1000	23.1	25.0	-7.5	50.0
Dichlorofluoromethane	Ave	3.148	3.051		24.2	25.0	-3.1	20.0
Trichlorofluoromethane	Ave	3.199	3.482	0.1000	27.2	25.0	8.8	20.0
Ethyl ether	Ave	1.751	1.665		23.8	25.0	-4.9	20.0
Acrolein	Ave	0.5029	0.3506		87.1	125	-30.3	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.865	2.001	0.1000	26.8	25.0	7.3	20.0
1,1-Dichloroethene	Ave	1.652	1.693	0.1000	25.6	25.0	2.5	20.0
Acetone	Ave	0.8576	0.7945	0.1000	116	125	-7.4	50.0
Iodomethane	Ave	3.172	3.182		25.1	25.0	0.3	20.0
Carbon disulfide	Ave	5.367	5.413	0.1000	25.2	25.0	0.9	20.0
Methyl acetate	Ave	2.357	1.823	0.1000	96.7	125	-22.7	50.0
Allyl chloride	Ave	3.048	2.882		23.6	25.0	-5.4	20.0
Methylene Chloride	Lin1		1.774	0.1000	26.9	25.0	7.5	20.0
2-Methyl-2-propanol	Ave	0.3419	0.3551		260	250	3.9	50.0
Methyl tert-butyl ether	Ave	5.701	5.608	0.1000	24.6	25.0	-1.6	20.0
Acrylonitrile	Ave	1.135	0.8782		193	250	-22.6*	20.0
trans-1,2-Dichloroethene	Ave	1.769	1.737	0.1000	24.5	25.0	-1.8	20.0
Hexane	Ave	2.696	2.651		24.6	25.0	-1.7	20.0
Vinyl acetate	Ave	4.373	4.376		50.0	50.0	0.0	20.0
1,1-Dichloroethane	Ave	3.381	3.287	0.2000	24.3	25.0	-2.8	20.0
2-Butanone (MEK)	Ave	1.425	1.184	0.1000	104	125	-16.9	20.0
2,2-Dichloropropane	Ave	2.600	2.908		28.0	25.0	11.8	20.0
cis-1,2-Dichloroethene	Ave	1.979	1.913	0.1000	24.2	25.0	-3.3	20.0
Chlorobromomethane	Ave	1.023	0.9576		23.4	25.0	-6.4	20.0
Tetrahydrofuran	Lin1		0.7384		41.2	50.0	-17.6	20.0
Chloroform	Ave	3.134	3.138	0.2000	25.0	25.0	0.2	20.0
1,1,1-Trichloroethane	Ave	2.932	3.086	0.1000	26.3	25.0	5.3	20.0
Cyclohexane	Ave	3.386	3.371	0.1000	24.9	25.0	-0.4	20.0
Isobutyl alcohol	Lin1		0.1256		692	625	10.8	50.0
1,1-Dichloropropene	Ave	2.362	2.404		25.4	25.0	1.8	20.0
Carbon tetrachloride	Ave	2.550	2.961	0.1000	29.0	25.0	16.1	20.0
Benzene	Ave	6.789	6.363	0.5000	23.4	25.0	-6.3	20.0
1,2-Dichloroethane	Ave	2.996	3.014	0.1000	25.1	25.0	0.6	20.0
n-Heptane	Lin1		2.497		27.6	25.0	10.4	20.0
Trichloroethene	Ave	1.853	1.808	0.2000	24.4	25.0	-2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCVIS 480-309873/2 Calibration Date: 07/06/2016 10:24

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7835.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	2.797	2.812	0.1000	25.1	25.0	0.5	20.0
1,2-Dichloropropane	Ave	1.758	1.700	0.1000	24.2	25.0	-3.3	20.0
1,4-Dioxane	Ave	0.0094	0.0101		532	500	6.4	50.0
Dibromomethane	Ave	1.288	1.231	0.1000	23.9	25.0	-4.5	20.0
Bromodichloromethane	Ave	2.156	2.229	0.2000	25.8	25.0	3.4	20.0
2-Chloroethyl vinyl ether	Ave	1.259	0.9921		19.7	25.0	-21.2*	20.0
cis-1,3-Dichloropropene	Ave	2.600	2.537	0.2000	24.4	25.0	-2.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.367	1.097	0.1000	100	125	-19.7	20.0
Toluene	Lin1		1.942	0.4000	24.4	25.0	-2.4	20.0
Ethyl methacrylate	Ave	1.029	0.9536		23.2	25.0	-7.3	20.0
trans-1,3-Dichloropropene	Ave	1.217	1.124	0.1000	23.1	25.0	-7.6	20.0
1,1,2-Trichloroethane	Ave	0.6657	0.5850	0.1000	22.0	25.0	-12.1	20.0
Tetrachloroethene	Ave	1.010	0.9314	0.2000	23.1	25.0	-7.8	20.0
2-Hexanone	Ave	0.9548	0.7560	0.1000	99.0	125	-20.8*	20.0
1,3-Dichloropropane	Ave	1.331	1.177		22.1	25.0	-11.6	20.0
Dibromochloromethane	Ave	0.8407	0.7921	0.1000	23.6	25.0	-5.8	20.0
1,2-Dibromoethane	Ave	0.8510	0.7779		22.9	25.0	-8.6	20.0
Chlorobenzene	Ave	2.621	2.330	0.5000	22.2	25.0	-11.1	20.0
Ethylbenzene	Ave	4.007	3.752	0.1000	23.4	25.0	-6.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8657	0.8790		25.4	25.0	1.5	20.0
m,p-Xylene	Ave	1.487	1.426	0.1000	24.0	25.0	-4.1	20.0
o-Xylene	Ave	1.508	1.426	0.3000	23.6	25.0	-5.5	20.0
Styrene	Ave	2.250	2.203	0.3000	24.5	25.0	-2.1	20.0
Bromoform	Ave	0.6637	0.5452	0.1000	20.5	25.0	-17.8	50.0
Isopropylbenzene	Ave	3.238	3.165	0.1000	24.4	25.0	-2.3	20.0
1,1,2,2-Tetrachloroethane	Ave	1.057	0.8721	0.3000	20.6	25.0	-17.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4206	0.3029		18.0	25.0	-28.0	50.0
1,2,3-Trichloropropane	Ave	0.3134	0.2752		22.0	25.0	-12.2	20.0
Bromobenzene	Ave	0.9822	0.9336		23.8	25.0	-4.9	20.0
N-Propylbenzene	Ave	4.009	3.844		24.0	25.0	-4.1	20.0
2-Chlorotoluene	Ave	0.8390	0.7867		23.4	25.0	-6.2	20.0
1,3,5-Trimethylbenzene	Ave	2.750	2.677		24.3	25.0	-2.7	20.0
4-Chlorotoluene	Ave	0.8665	0.8068		23.3	25.0	-6.9	20.0
tert-Butylbenzene	Ave	0.6360	0.6178		24.3	25.0	-2.9	20.0
1,2,4-Trimethylbenzene	Ave	2.866	2.810		24.5	25.0	-1.9	20.0
sec-Butylbenzene	Ave	3.518	3.431		24.4	25.0	-2.5	20.0
4-Isopropyltoluene	Ave	3.132	3.132		25.0	25.0	0.0	20.0
1,3-Dichlorobenzene	Ave	1.823	1.670	0.6000	22.9	25.0	-8.4	20.0
1,4-Dichlorobenzene	Ave	1.847	1.682	0.5000	22.8	25.0	-9.0	20.0
n-Butylbenzene	Ave	2.867	2.814		24.5	25.0	-1.9	20.0
1,2-Dichlorobenzene	Ave	1.859	1.687	0.4000	22.7	25.0	-9.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCVIS 480-309873/2 Calibration Date: 07/06/2016 10:24

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7835.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	0.2666	0.2041	0.0500	19.1	25.0	-23.5	50.0
1,2,4-Trichlorobenzene	Ave	1.543	1.460	0.2000	23.7	25.0	-5.4	20.0
Hexachlorobutadiene	Ave	0.7121	0.6756		23.7	25.0	-5.1	20.0
Naphthalene	Ave	4.111	3.708		22.5	25.0	-9.8	20.0
1,2,3-Trichlorobenzene	Ave	1.499	1.423		23.7	25.0	-5.0	20.0
Dibromofluoromethane (Surr)	Ave	1.433	1.497		26.1	25.0	4.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8911	0.9183		25.8	25.0	3.1	20.0
Toluene-d8 (Surr)	Ave	2.394	2.239		23.4	25.0	-6.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9094	0.8708		23.9	25.0	-4.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7835.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Jul-2016 10:24:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0054607-002
Operator ID: CDC Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 17:56:59 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: cwiklinc Date: 06-Jul-2016 11:00:25

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	9.852	9.852	0.000	99	106774	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	233663	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	279564	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	93	159876	25.0	26.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.481	0.000	0	98051	25.0	25.8	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	93	523083	25.0	23.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.303	15.303	0.000	94	203468	25.0	23.9	
10 Dichlorodifluoromethane	85	4.018	4.018	0.000	99	219239	25.0	22.7	
11 Chloromethane	50	4.316	4.316	0.000	98	150139	25.0	20.8	
17 Vinyl chloride	62	4.547	4.547	0.000	98	133131	25.0	22.0	
144 Butadiene	54	4.571	4.571	0.000	92	134884	25.0	25.0	
12 Bromomethane	94	5.094	5.094	0.000	94	102495	25.0	23.0	
13 Chloroethane	64	5.228	5.228	0.000	97	106944	25.0	23.1	
19 Dichlorofluoromethane	67	5.520	5.520	0.000	97	325807	25.0	24.2	
14 Trichlorofluoromethane	101	5.636	5.636	0.000	98	371747	25.0	27.2	
20 Ethyl ether	59	5.928	5.928	0.000	96	177725	25.0	23.8	
22 Acrolein	56	6.177	6.177	0.000	99	187174	125.0	87.1	
16 1,1,2-Trichloro-1,2,2-trif	101	6.269	6.269	0.000	89	213661	25.0	26.8	
25 1,1-Dichloroethene	96	6.311	6.311	0.000	94	180731	25.0	25.6	
24 Acetone	43	6.354	6.354	0.000	98	424175	125.0	115.8	
18 Iodomethane	142	6.579	6.579	0.000	99	339802	25.0	25.1	
27 Carbon disulfide	76	6.694	6.694	0.000	100	578020	25.0	25.2	
30 Methyl acetate	43	6.731	6.731	0.000	99	973163	125.0	96.7	
28 3-Chloro-1-propene	41	6.761	6.761	0.000	79	307674	25.0	23.6	
31 Methylene Chloride	84	6.938	6.938	0.000	97	189386	25.0	26.9	
33 2-Methyl-2-propanol	59	6.968	6.968	0.000	97	379163	250.0	259.7	
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	98	598760	25.0	24.6	
34 Acrylonitrile	53	7.230	7.230	0.000	99	937697	250.0	193.5	
35 trans-1,2-Dichloroethene	96	7.260	7.260	0.000	95	185418	25.0	24.5	
36 Hexane	57	7.491	7.491	0.000	94	283040	25.0	24.6	

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	7.729	7.729	0.000	97	934438	50.0	50.0	
40 1,1-Dichloroethane	63	7.783	7.783	0.000	97	350935	25.0	24.3	
44 2-Butanone (MEK)	43	8.428	8.428	0.000	99	632034	125.0	103.9	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	84	204290	25.0	24.2	
45 2,2-Dichloropropane	77	8.483	8.483	0.000	65	310528	25.0	28.0	
50 Chlorobromomethane	128	8.799	8.799	0.000	97	102250	25.0	23.4	
51 Tetrahydrofuran	42	8.824	8.824	0.000	87	157691	50.0	41.2	
49 Chloroform	83	8.836	8.836	0.000	95	335095	25.0	25.0	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	99	329488	25.0	26.3	
54 Cyclohexane	56	9.164	9.164	0.000	94	359947	25.0	24.9	M
53 Isobutyl alcohol	43	9.250	9.250	0.000	95	335345	625.0	692.5	
56 1,1-Dichloropropene	75	9.268	9.268	0.000	93	256706	25.0	25.4	
55 Carbon tetrachloride	117	9.298	9.298	0.000	96	316110	25.0	29.0	
57 Benzene	78	9.554	9.554	0.000	98	679377	25.0	23.4	
60 1,2-Dichloroethane	62	9.578	9.578	0.000	98	321803	25.0	25.1	
59 n-Heptane	43	9.669	9.669	0.000	94	266576	25.0	27.6	
62 Trichloroethene	95	10.302	10.302	0.000	93	193003	25.0	24.4	
64 Methylcyclohexane	83	10.539	10.539	0.000	94	300233	25.0	25.1	
63 1,2-Dichloropropane	63	10.612	10.612	0.000	92	181564	25.0	24.2	
68 1,4-Dioxane	88	10.734	10.734	0.000	98	46963	500.0	531.8	M
69 Dibromomethane	93	10.801	10.801	0.000	93	131414	25.0	23.9	
70 Dichlorobromomethane	83	10.941	10.941	0.000	97	237993	25.0	25.8	
71 2-Chloroethyl vinyl ether	63	11.202	11.202	0.000	94	105927	25.0	19.7	
73 cis-1,3-Dichloropropene	75	11.476	11.476	0.000	92	270909	25.0	24.4	
75 4-Methyl-2-pentanone (MIBK	43	11.586	11.586	0.000	98	1282158	125.0	100.3	
76 Toluene	92	11.920	11.920	0.000	98	453779	25.0	24.4	
77 Ethyl methacrylate	69	12.145	12.145	0.000	92	222810	25.0	23.2	
78 trans-1,3-Dichloropropene	75	12.182	12.182	0.000	94	262706	25.0	23.1	
79 1,1,2-Trichloroethane	83	12.462	12.462	0.000	93	136693	25.0	22.0	
80 Tetrachloroethene	166	12.669	12.669	0.000	94	217637	25.0	23.1	
83 2-Hexanone	43	12.675	12.675	0.000	99	883237	125.0	99.0	
82 1,3-Dichloropropane	76	12.699	12.699	0.000	96	275046	25.0	22.1	
81 Chlorodibromomethane	129	13.046	13.046	0.000	90	185090	25.0	23.6	
85 Ethylene Dibromide	107	13.240	13.240	0.000	97	181763	25.0	22.9	
87 Chlorobenzene	112	13.837	13.837	0.000	95	544362	25.0	22.2	
89 Ethylbenzene	91	13.897	13.897	0.000	99	876598	25.0	23.4	
88 1,1,1,2-Tetrachloroethane	131	13.916	13.916	0.000	93	205398	25.0	25.4	
90 m-Xylene & p-Xylene	106	14.037	14.037	0.000	0	333214	25.0	24.0	
93 o-Xylene	106	14.591	14.591	0.000	97	333141	25.0	23.6	
94 Styrene	104	14.609	14.609	0.000	95	514866	25.0	24.5	
92 Bromoform	173	14.962	14.962	0.000	97	127402	25.0	20.5	
95 Isopropylbenzene	105	15.029	15.029	0.000	96	884724	25.0	24.4	
97 1,1,2,2-Tetrachloroethane	83	15.455	15.455	0.000	98	243819	25.0	20.6	
98 trans-1,4-Dichloro-2-buten	53	15.510	15.510	0.000	79	84686	25.0	18.0	
101 1,2,3-Trichloropropane	110	15.552	15.552	0.000	74	76932	25.0	22.0	
100 Bromobenzene	156	15.552	15.552	0.000	92	261002	25.0	23.8	
99 N-Propylbenzene	91	15.564	15.564	0.000	98	1074599	25.0	24.0	
103 2-Chlorotoluene	126	15.747	15.747	0.000	94	219945	25.0	23.4	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	748306	25.0	24.3	
105 4-Chlorotoluene	126	15.881	15.881	0.000	98	225547	25.0	23.3	
106 tert-Butylbenzene	134	16.197	16.197	0.000	92	172704	25.0	24.3	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	785598	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	16.465	16.465	0.000	95	959237	25.0	24.4	
112 4-Isopropyltoluene	119	16.617	16.617	0.000	96	875693	25.0	25.0	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	98	466771	25.0	22.9	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	470124	25.0	22.8	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	786678	25.0	24.5	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	471554	25.0	22.7	
117 1,2-Dibromo-3-Chloropropan	75	18.278	18.278	0.000	85	57044	25.0	19.1	
119 1,2,4-Trichlorobenzene	180	19.348	19.348	0.000	94	408084	25.0	23.7	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	95	188859	25.0	23.7	
121 Naphthalene	128	19.750	19.750	0.000	97	1036574	25.0	22.5	
122 1,2,3-Trichlorobenzene	180	20.109	20.109	0.000	95	397908	25.0	23.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00077	Amount Added: 12.50	Units: uL	
GAS CORP mix_00164	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

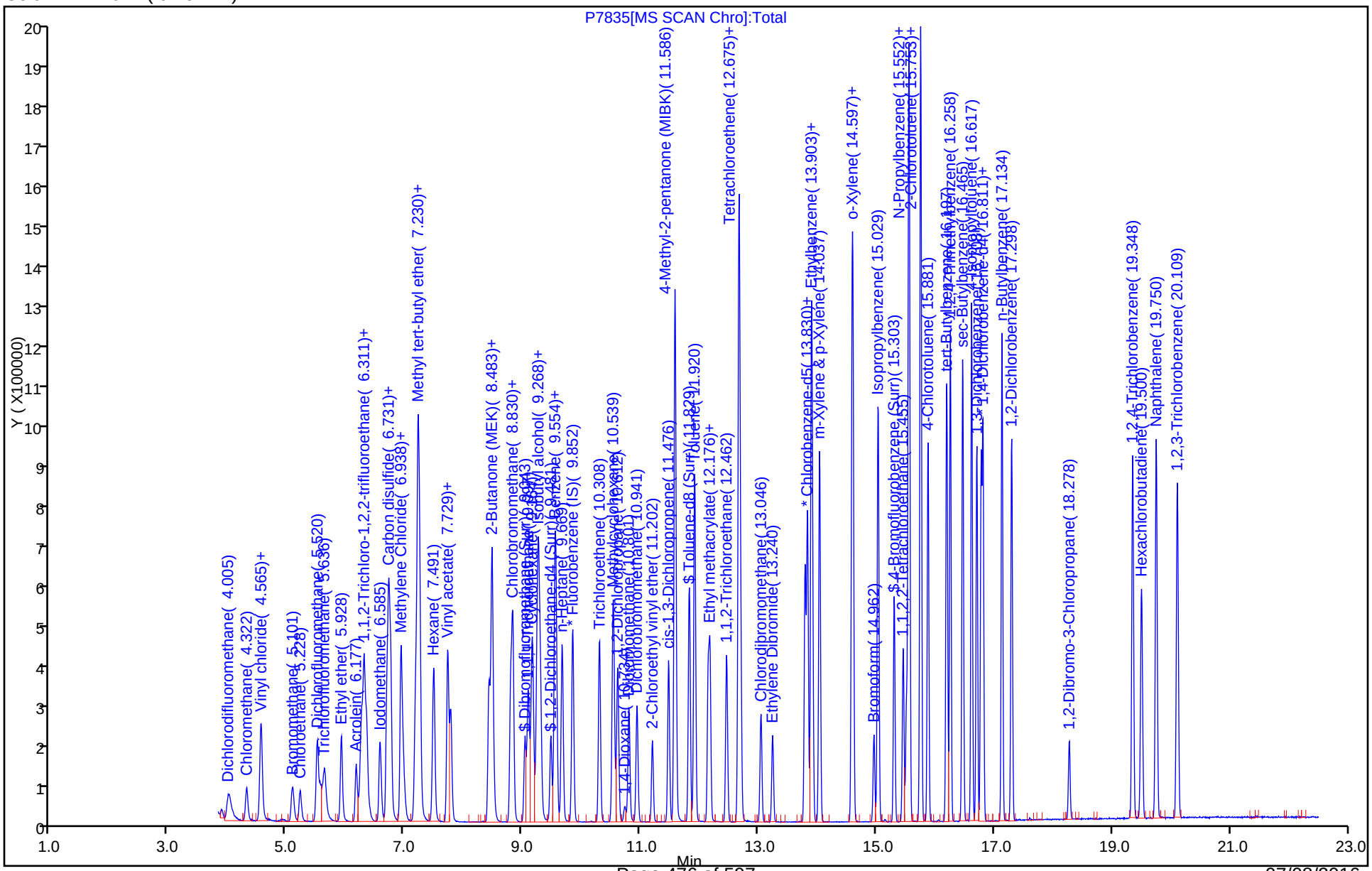
Report Date: 06-Jul-2016 17:57:00 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7835.D

Injection Date:	06-Jul-2016 10:24:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

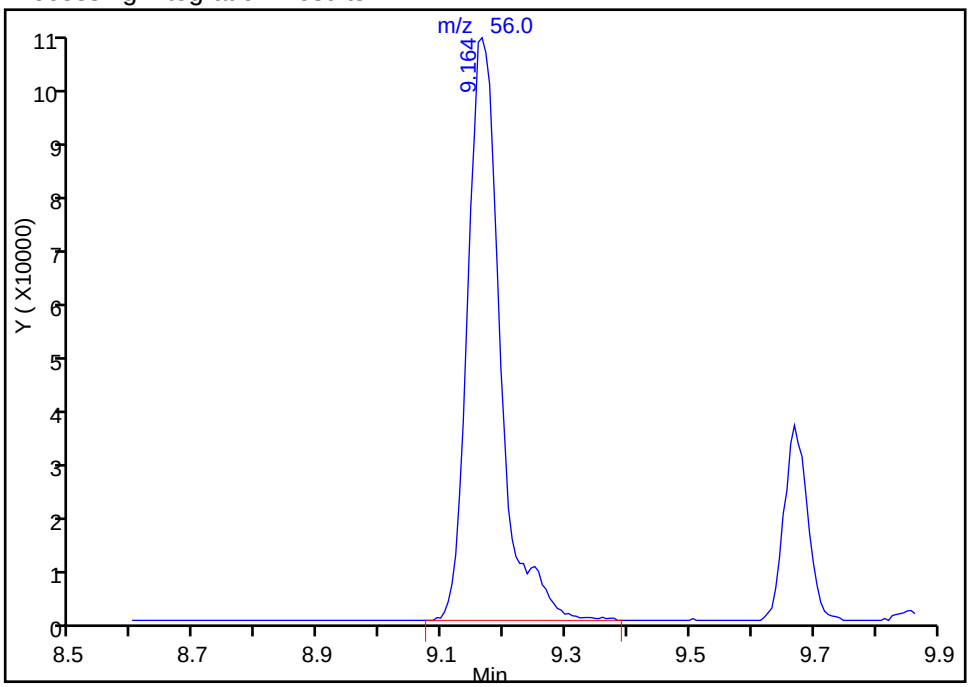
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7835.D
Injection Date: 06-Jul-2016 10:24:30 Instrument ID: HP5973P
Lims ID: CCVIS
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

54 Cyclohexane, CAS: 110-82-7

Signal: 1

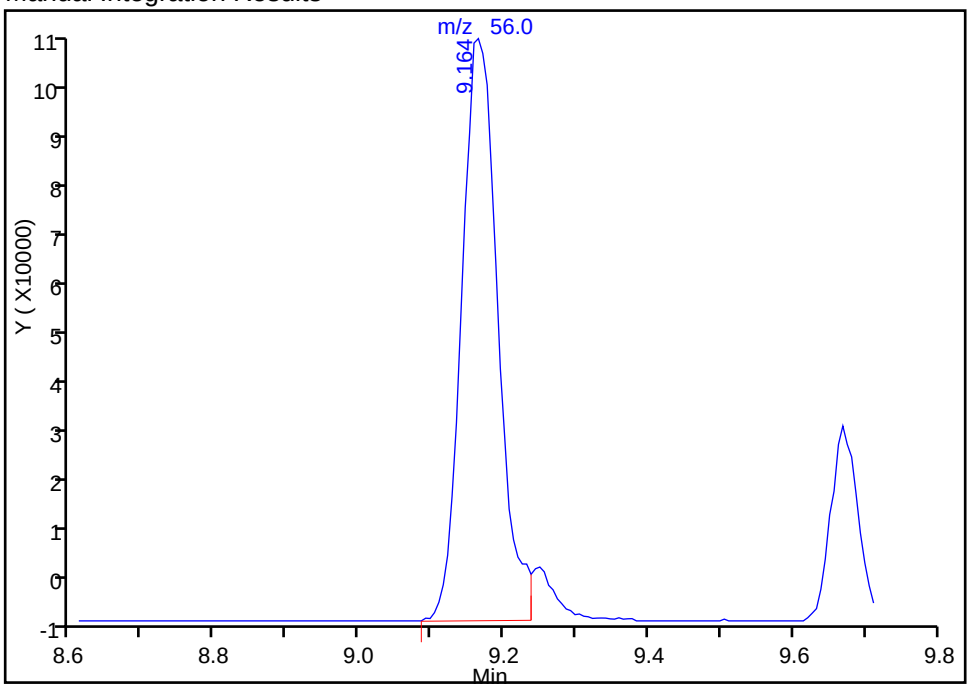
Processing Integration Results

RT: 9.16
Area: 381387
Amount: 26.370854
Amount Units: ug/L



Manual Integration Results

RT: 9.16
Area: 359947
Amount: 24.888394
Amount Units: ug/L



Reviewer: cwiklinc, 06-Jul-2016 11:00:25
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

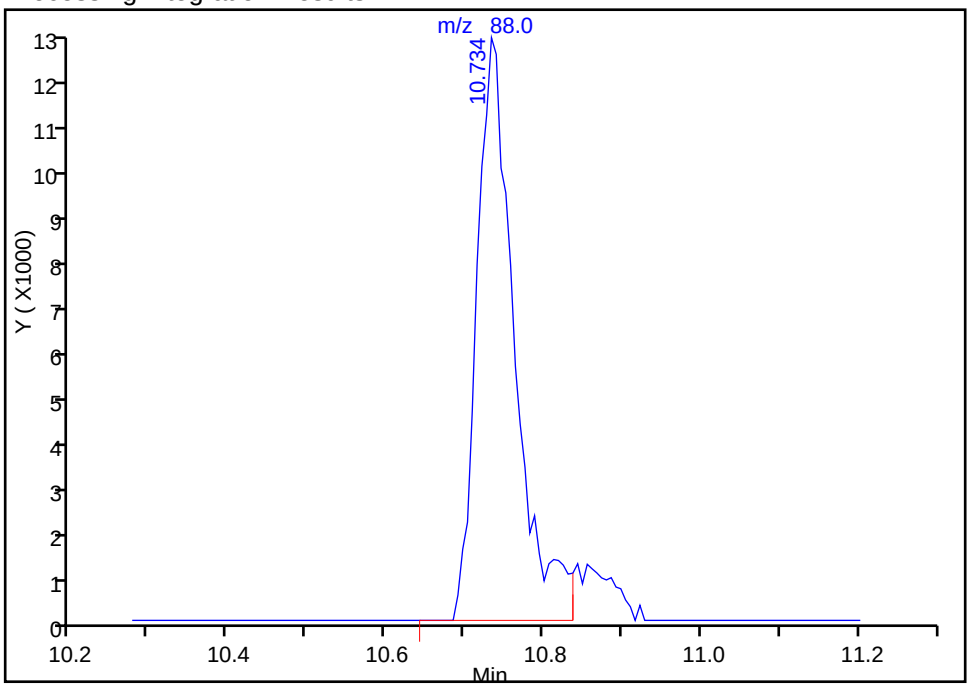
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7835.D
Injection Date: 06-Jul-2016 10:24:30 Instrument ID: HP5973P
Lims ID: CCVIS
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

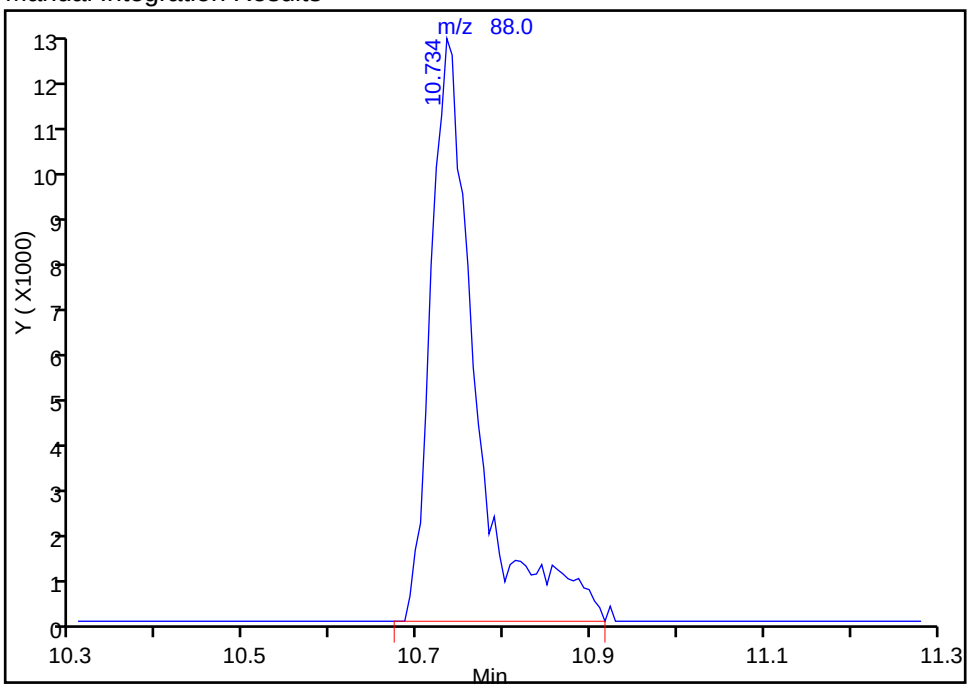
Processing Integration Results

RT: 10.73
Area: 43135
Amount: 488.4901
Amount Units: ug/L



Manual Integration Results

RT: 10.73
Area: 46963
Amount: 531.8409
Amount Units: ug/L



Reviewer: cwiklinc, 06-Jul-2016 11:00:25
Audit Action: Manually Integrated Audit Reason: Other

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCV 480-309873/3 Calibration Date: 07/06/2016 11:07

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7836.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
Dibromofluoromethane (Surr)	Ave	1.433	1.400		24.4	25.0	-2.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8911	0.9494		26.6	25.0	6.5	20.0
Toluene-d8 (Surr)	Ave	2.394	2.269		23.7	25.0	-5.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9094	0.8953		24.6	25.0	-1.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7836.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 06-Jul-2016 11:07:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 480-0054607-003
Operator ID: CDC Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub29

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 17:57:15 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: cwiklinc Date: 06-Jul-2016 11:29:31

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	9.851	9.851	0.000	99	111402	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	232538	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	284894	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.042	0.000	94	155976	25.0	24.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.480	9.480	0.000	0	105765	25.0	26.6	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	527640	25.0	23.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.302	15.302	0.000	93	208194	25.0	24.6	
15 Chlorodifluoromethane	51	4.042	4.042	0.000	97	196775	25.0	19.4	
141 Ethanol	45	5.824	5.824	0.000	98	149604	1000.0	2023.6	
26 Propene oxide	58	6.080	6.080	0.000	96	322130	NC	NC	
23 Isopropyl alcohol	45	6.463	6.463	0.000	98	238454	250.0	345.1	
29 Acetonitrile	40	6.755	6.755	0.000	98	211796	250.0	292.2	
37 Isopropyl ether	45	7.704	7.704	0.000	96	640512	25.0	21.9	
39 1,1-Dimethoxyethane	75	7.807	7.807	0.000	97	266981	125.0	119.4	
41 2-Chloro-1,3-butadiene	53	7.874	7.874	0.000	95	336083	25.0	24.1	
42 Tert-butyl ethyl ether	59	8.148	8.148	0.000	99	627606	25.0	22.7	
46 Ethyl acetate	43	8.422	8.422	0.000	100	600083	50.0	47.5	
47 Propionitrile	54	8.556	8.556	0.000	98	436380	250.0	245.3	
48 Methacrylonitrile	41	8.726	8.726	0.000	94	1543722	250.0	214.6	
140 t-Amyl alcohol	59	9.377	9.377	0.000	96	310319	250.0	263.6	
146 Isooctane	57	9.511	9.511	0.000	98	583154	25.0	22.8	
58 Tert-amyl methyl ether	73	9.547	9.547	0.000	96	528304	25.0	22.0	
1 1,4-Difluorobenzene	114	9.918	9.918	0.000	94	570739	25.0	22.1	
61 n-Butanol	56	10.040	10.040	0.000	90	222101	625.0	886.2	
145 Ethyl acrylate	55	10.277	10.277	0.000	99	311198	25.0	23.2	
65 Methyl methacrylate	41	10.582	10.582	0.000	94	442531	50.0	47.5	
72 2-Nitropropane	43	11.208	11.208	0.000	98	169783	50.0	53.2	
74 Epichlorohydrin	57	11.372	11.372	0.000	100	337047	250.0	240.2	
149 n-Butyl acetate	43	12.759	12.759	0.000	98	397945	25.0	22.1	
84 3-Chlorobenzotrifluoride	180	13.635	13.635	0.000	94	317968	25.0	22.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	13.654	13.654	0.000	96	184809	25.0	23.6	
86 4-Chlorobenzotrifluoride	180	13.708	13.708	0.000	96	308512	25.0	22.8	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	98	324023	25.0	22.2	
96 Cyclohexanone	55	15.278	15.278	0.000	94	118593	250.0	301.0	
104 3-Chlorotoluene	126	15.819	15.819	0.000	97	216523	25.0	22.4	
108 Pentachloroethane	167	16.306	16.306	0.000	87	146824	25.0	25.9	
113 1,2,3-Trimethylbenzene	105	16.817	16.817	0.000	98	783527	25.0	21.7	
114 Dicyclopentadiene	66	16.835	16.835	0.000	99	641374	25.0	22.0	
143 Benzyl chloride	126	16.963	16.963	0.000	99	110998	25.0	26.5	
118 1,3,5-Trichlorobenzene	180	18.490	18.490	0.000	97	388252	25.0	22.0	
142 2-Methylnaphthalene	142	21.568	21.568	0.000	92	700789	25.0	21.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00048	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

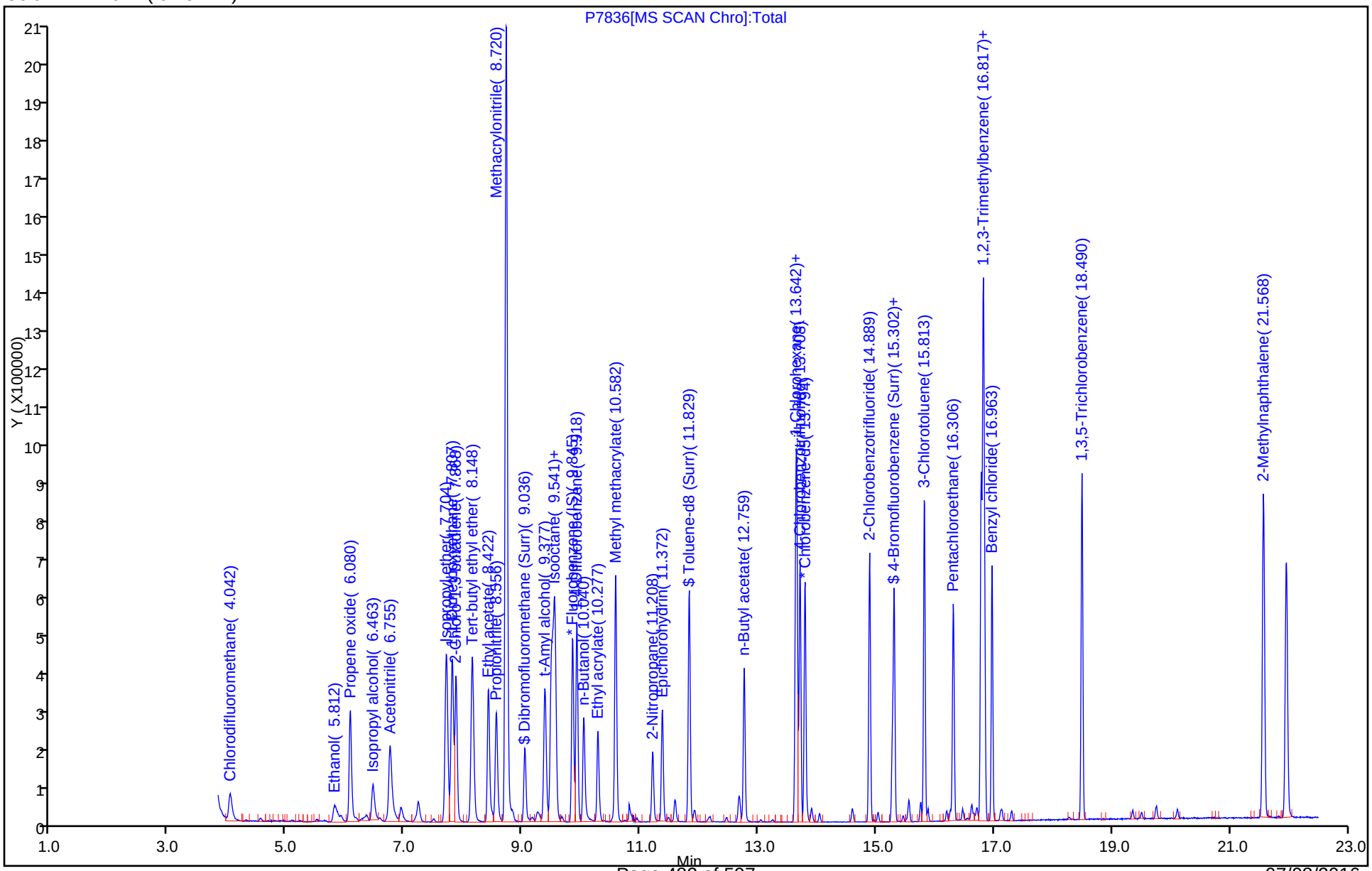
Report Date: 06-Jul-2016 17:57:16 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7836.D

Injection Date:	06-Jul-2016 11:07:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCV 480-309873/3 Calibration Date: 07/06/2016 11:07

Instrument ID: HP5973P Calib Start Date: 06/20/2016 02:23

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 05:07

Lab File ID: P7836.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
Chlorodifluoromethane	Ave	2.279	1.766		19.4	25.0	-22.5*	20.0
Ethanol	Ave	0.0166	0.0336		2020	1000	102.4*	20.0
Isopropyl alcohol	Ave	0.1551	0.2141		345	250	38.0*	20.0
Acetonitrile	Ave	0.1627	0.1901		292	250	16.9	20.0
Isopropyl ether	Ave	6.561	5.750		21.9	25.0	-12.4	20.0
1,1-Dimethoxyethane	Ave	0.5016	0.4793		119	125	-4.4	20.0
Chloroprene	Ave	3.123	3.017		24.1	25.0	-3.4	20.0
Tert-butyl ethyl ether	Ave	6.203	5.634		22.7	25.0	-9.2	20.0
Ethyl acetate	Ave	2.835	2.693		47.5	50.0	-5.0	20.0
Propionitrile	Ave	0.3993	0.3917		245	250	-1.9	20.0
Methacrylonitrile	Ave	1.614	1.386		215	250	-14.2	20.0
t-Amyl alcohol	Ave	0.2642	0.2786		264	250	5.4	20.0
Isooctane	Ave	5.740	5.235		22.8	25.0	-8.8	20.0
Tert-amyl methyl ether	Ave	5.390	4.742		22.0	25.0	-12.0	20.0
1,4-Difluorobenzene	Ave	5.791	5.123		22.1	25.0	-11.5	20.0
n-Butanol	Ave	0.0562	0.0798		886	625	41.8*	20.0
Ethyl acrylate	Ave	3.011	2.793		23.2	25.0	-7.2	20.0
Methyl methacrylate	Ave	2.093	1.986		47.5	50.0	-5.1	20.0
2-Nitropropane	Lin1		0.2980		53.2	50.0	6.3	20.0
Epichlorohydrin	Ave	0.3149	0.3026		240	250	-3.9	20.0
n-Butyl acetate	Ave	1.939	1.711	0.1000	22.1	25.0	-11.7	20.0
3-Chlorobenzotrifluoride	Ave	1.226	1.116		22.8	25.0	-8.9	20.0
1-Chlorohexane	Ave	0.8403	0.7948		23.6	25.0	-5.4	20.0
4-Chlorobenzotrifluoride	Ave	1.185	1.083		22.8	25.0	-8.6	20.0
2-Chlorobenzotrifluoride	Ave	1.280	1.137		22.2	25.0	-11.1	20.0
Cyclohexanone	Ave	0.0346	0.0416		301	250	20.4*	20.0
3-Chlorotoluene	Ave	0.8487	0.7600		22.4	25.0	-10.5	20.0
Pentachloroethane	Ave	0.4982	0.5154		25.9	25.0	3.4	20.0
1,2,3-Trimethylbenzene	Ave	3.174	2.750		21.7	25.0	-13.4	20.0
Dicyclopentadiene	Ave	2.562	2.251		22.0	25.0	-12.1	20.0
Benzyl chloride	Ave	0.3669	0.3896		26.5	25.0	6.2	20.0
1,3,5-Trichlorobenzene	Ave	1.551	1.363		22.0	25.0	-12.1	20.0
2-Methylnaphthalene	Lin1		2.460		21.2	25.0	-15.1	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7836.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 06-Jul-2016 11:07:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 480-0054607-003
Operator ID: CDC Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub29

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 17:57:15 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: cwiklinc Date: 06-Jul-2016 11:29:31

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	9.851	9.851	0.000	99	111402	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	232538	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	284894	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.042	0.000	94	155976	25.0	24.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.480	9.480	0.000	0	105765	25.0	26.6	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	527640	25.0	23.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.302	15.302	0.000	93	208194	25.0	24.6	
15 Chlorodifluoromethane	51	4.042	4.042	0.000	97	196775	25.0	19.4	
141 Ethanol	45	5.824	5.824	0.000	98	149604	1000.0	2023.6	
26 Propene oxide	58	6.080	6.080	0.000	96	322130	NC	NC	
23 Isopropyl alcohol	45	6.463	6.463	0.000	98	238454	250.0	345.1	
29 Acetonitrile	40	6.755	6.755	0.000	98	211796	250.0	292.2	
37 Isopropyl ether	45	7.704	7.704	0.000	96	640512	25.0	21.9	
39 1,1-Dimethoxyethane	75	7.807	7.807	0.000	97	266981	125.0	119.4	
41 2-Chloro-1,3-butadiene	53	7.874	7.874	0.000	95	336083	25.0	24.1	
42 Tert-butyl ethyl ether	59	8.148	8.148	0.000	99	627606	25.0	22.7	
46 Ethyl acetate	43	8.422	8.422	0.000	100	600083	50.0	47.5	
47 Propionitrile	54	8.556	8.556	0.000	98	436380	250.0	245.3	
48 Methacrylonitrile	41	8.726	8.726	0.000	94	1543722	250.0	214.6	
140 t-Amyl alcohol	59	9.377	9.377	0.000	96	310319	250.0	263.6	
146 Isooctane	57	9.511	9.511	0.000	98	583154	25.0	22.8	
58 Tert-amyl methyl ether	73	9.547	9.547	0.000	96	528304	25.0	22.0	
1 1,4-Difluorobenzene	114	9.918	9.918	0.000	94	570739	25.0	22.1	
61 n-Butanol	56	10.040	10.040	0.000	90	222101	625.0	886.2	
145 Ethyl acrylate	55	10.277	10.277	0.000	99	311198	25.0	23.2	
65 Methyl methacrylate	41	10.582	10.582	0.000	94	442531	50.0	47.5	
72 2-Nitropropane	43	11.208	11.208	0.000	98	169783	50.0	53.2	
74 Epichlorohydrin	57	11.372	11.372	0.000	100	337047	250.0	240.2	
149 n-Butyl acetate	43	12.759	12.759	0.000	98	397945	25.0	22.1	
84 3-Chlorobenzotrifluoride	180	13.635	13.635	0.000	94	317968	25.0	22.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	13.654	13.654	0.000	96	184809	25.0	23.6	
86 4-Chlorobenzotrifluoride	180	13.708	13.708	0.000	96	308512	25.0	22.8	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	98	324023	25.0	22.2	
96 Cyclohexanone	55	15.278	15.278	0.000	94	118593	250.0	301.0	
104 3-Chlorotoluene	126	15.819	15.819	0.000	97	216523	25.0	22.4	
108 Pentachloroethane	167	16.306	16.306	0.000	87	146824	25.0	25.9	
113 1,2,3-Trimethylbenzene	105	16.817	16.817	0.000	98	783527	25.0	21.7	
114 Dicyclopentadiene	66	16.835	16.835	0.000	99	641374	25.0	22.0	
143 Benzyl chloride	126	16.963	16.963	0.000	99	110998	25.0	26.5	
118 1,3,5-Trichlorobenzene	180	18.490	18.490	0.000	97	388252	25.0	22.0	
142 2-Methylnaphthalene	142	21.568	21.568	0.000	92	700789	25.0	21.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00048	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

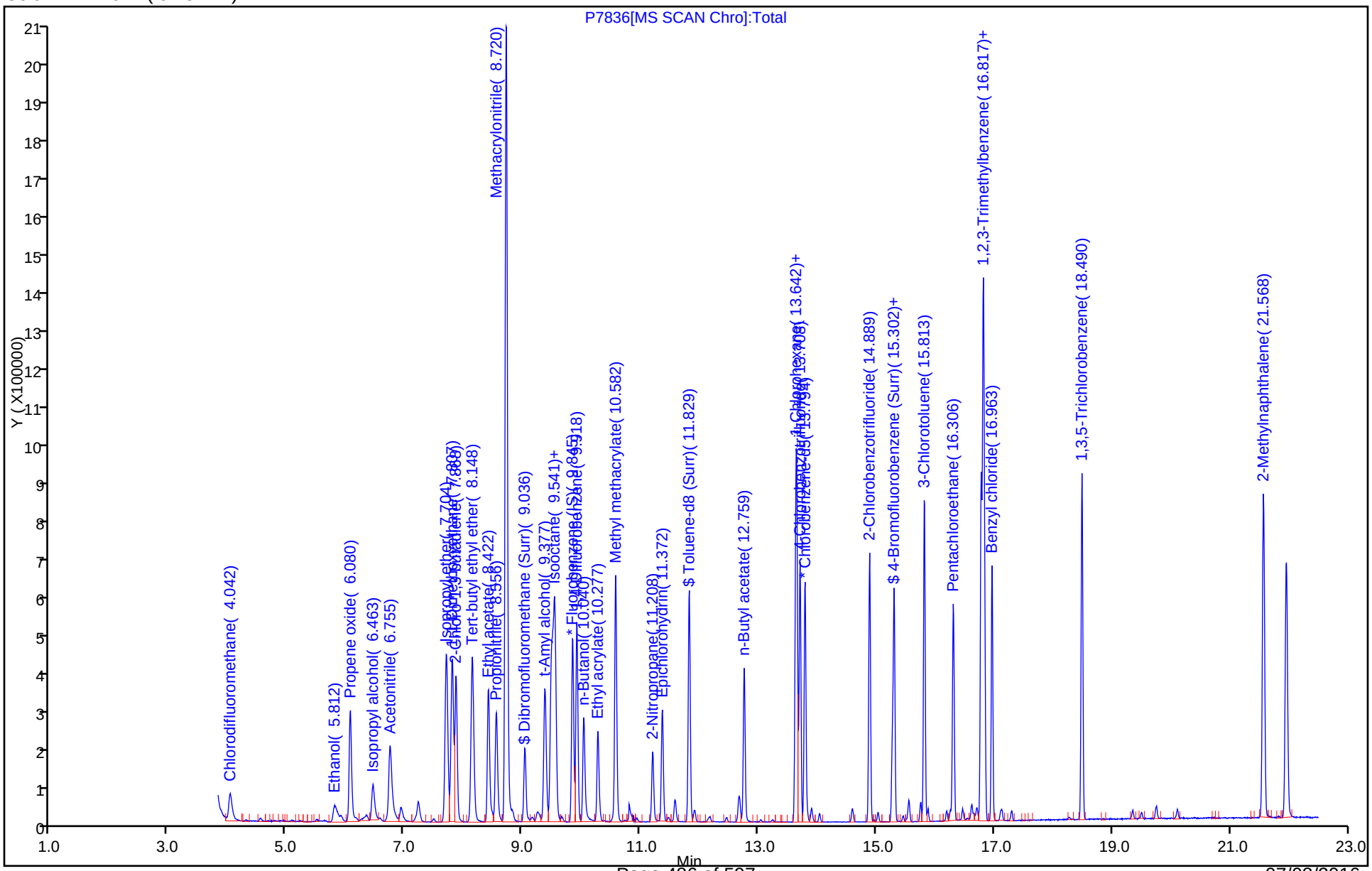
Report Date: 06-Jul-2016 17:57:16 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7836.D

Injection Date:	06-Jul-2016 11:07:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCVIS 480-309962/2 Calibration Date: 07/06/2016 22:36

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7858.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	2.258	2.026	0.1000	22.4	25.0	-10.3	50.0
Chloromethane	Ave	1.691	1.416	0.1000	20.9	25.0	-16.3	20.0
Vinyl chloride	Ave	1.420	1.234	0.1000	21.7	25.0	-13.1	20.0
Butadiene	Ave	1.265	1.209		23.9	25.0	-4.5	20.0
Bromomethane	Ave	1.041	1.199	0.1000	28.8	25.0	15.2	50.0
Chloroethane	Ave	1.083	0.9338	0.1000	21.6	25.0	-13.8	50.0
Dichlorofluoromethane	Ave	3.148	3.193		25.4	25.0	1.4	20.0
Trichlorofluoromethane	Ave	3.199	3.368	0.1000	26.3	25.0	5.3	20.0
Ethyl ether	Ave	1.751	1.624		23.2	25.0	-7.2	20.0
Acrolein	Ave	0.5029	0.3982		99.0	125	-20.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.865	1.738	0.1000	23.3	25.0	-6.8	20.0
1,1-Dichloroethene	Ave	1.652	1.490	0.1000	22.6	25.0	-9.8	20.0
Acetone	Ave	0.8576	1.036	0.1000	151	125	20.9	50.0
Iodomethane	Ave	3.172	3.026		23.9	25.0	-4.6	20.0
Carbon disulfide	Ave	5.367	4.665	0.1000	21.7	25.0	-13.1	20.0
Methyl acetate	Ave	2.357	2.169	0.1000	115	125	-8.0	50.0
Allyl chloride	Ave	3.048	2.717		22.3	25.0	-10.8	20.0
Methylene Chloride	Lin1		1.622	0.1000	24.5	25.0	-2.0	20.0
2-Methyl-2-propanol	Ave	0.3419	0.4466		327	250	30.6	50.0
Methyl tert-butyl ether	Ave	5.701	5.550	0.1000	24.3	25.0	-2.7	20.0
Acrylonitrile	Ave	1.135	1.061		234	250	-6.5	20.0
trans-1,2-Dichloroethene	Ave	1.769	1.600	0.1000	22.6	25.0	-9.6	20.0
Hexane	Ave	2.696	2.205		20.4	25.0	-18.2	20.0
Vinyl acetate	Ave	4.373	4.478		51.2	50.0	2.4	20.0
1,1-Dichloroethane	Ave	3.381	3.081	0.2000	22.8	25.0	-8.9	20.0
2-Butanone (MEK)	Ave	1.425	1.503	0.1000	132	125	5.5	20.0
2,2-Dichloropropane	Ave	2.600	2.618		25.2	25.0	0.7	20.0
cis-1,2-Dichloroethene	Ave	1.979	1.806	0.1000	22.8	25.0	-8.7	20.0
Chlorobromomethane	Ave	1.023	0.9420		23.0	25.0	-7.9	20.0
Tetrahydrofuran	Lin1		0.9264		51.8	50.0	3.7	20.0
Chloroform	Ave	3.134	3.014	0.2000	24.0	25.0	-3.8	20.0
1,1,1-Trichloroethane	Ave	2.932	2.795	0.1000	23.8	25.0	-4.6	20.0
Cyclohexane	Ave	3.386	3.120	0.1000	23.0	25.0	-7.9	20.0
Isobutyl alcohol	Lin1		0.1719		945	625	51.1*	50.0
1,1-Dichloropropene	Ave	2.362	2.135		22.6	25.0	-9.6	20.0
Carbon tetrachloride	Ave	2.550	2.645	0.1000	25.9	25.0	3.7	20.0
Benzene	Ave	6.789	5.972	0.5000	22.0	25.0	-12.0	20.0
1,2-Dichloroethane	Ave	2.996	2.931	0.1000	24.5	25.0	-2.2	20.0
n-Heptane	Lin1		2.063		22.7	25.0	-9.3	20.0
Trichloroethene	Ave	1.853	1.676	0.2000	22.6	25.0	-9.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCVIS 480-309962/2 Calibration Date: 07/06/2016 22:36

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7858.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	2.797	2.336	0.1000	20.9	25.0	-16.5	20.0
1,2-Dichloropropane	Ave	1.758	1.637	0.1000	23.3	25.0	-6.9	20.0
1,4-Dioxane	Ave	0.0094	0.0133		701	500	40.3	50.0
Dibromomethane	Ave	1.288	1.245	0.1000	24.2	25.0	-3.3	20.0
Bromodichloromethane	Ave	2.156	2.193	0.2000	25.4	25.0	1.7	20.0
2-Chloroethyl vinyl ether	Ave	1.259	1.025		20.4	25.0	-18.6	20.0
cis-1,3-Dichloropropene	Ave	2.600	2.481	0.2000	23.9	25.0	-4.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.367	1.344	0.1000	123	125	-1.7	20.0
Toluene	Lin1		1.919	0.4000	24.1	25.0	-3.5	20.0
Ethyl methacrylate	Ave	1.029	1.038		25.2	25.0	0.9	20.0
trans-1,3-Dichloropropene	Ave	1.217	1.184	0.1000	24.3	25.0	-2.8	20.0
1,1,2-Trichloroethane	Ave	0.6657	0.6002	0.1000	22.5	25.0	-9.8	20.0
Tetrachloroethene	Ave	1.010	0.8845	0.2000	21.9	25.0	-12.4	20.0
2-Hexanone	Ave	0.9548	0.9615	0.1000	126	125	0.7	20.0
1,3-Dichloropropane	Ave	1.331	1.247		23.4	25.0	-6.3	20.0
Dibromochloromethane	Ave	0.8407	0.8483	0.1000	25.2	25.0	0.9	20.0
1,2-Dibromoethane	Ave	0.8510	0.8214		24.1	25.0	-3.5	20.0
Chlorobenzene	Ave	2.621	2.340	0.5000	22.3	25.0	-10.7	20.0
Ethylbenzene	Ave	4.007	3.684	0.1000	23.0	25.0	-8.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8657	0.9256		26.7	25.0	6.9	20.0
m,p-Xylene	Ave	1.487	1.409	0.1000	23.7	25.0	-5.3	20.0
o-Xylene	Ave	1.508	1.455	0.3000	24.1	25.0	-3.6	20.0
Styrene	Ave	2.250	2.234	0.3000	24.8	25.0	-0.7	20.0
Bromoform	Ave	0.6637	0.6115	0.1000	23.0	25.0	-7.9	50.0
Isopropylbenzene	Ave	3.238	3.075	0.1000	23.7	25.0	-5.0	20.0
1,1,2,2-Tetrachloroethane	Ave	1.057	1.002	0.3000	23.7	25.0	-5.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4206	0.3466		20.6	25.0	-17.6	50.0
1,2,3-Trichloropropane	Ave	0.3134	0.3277		26.1	25.0	4.6	20.0
Bromobenzene	Ave	0.9822	0.9433		24.0	25.0	-4.0	20.0
N-Propylbenzene	Ave	4.009	3.729		23.3	25.0	-7.0	20.0
2-Chlorotoluene	Ave	0.8390	0.7788		23.2	25.0	-7.2	20.0
1,3,5-Trimethylbenzene	Ave	2.750	2.668		24.3	25.0	-3.0	20.0
4-Chlorotoluene	Ave	0.8665	0.8040		23.2	25.0	-7.2	20.0
tert-Butylbenzene	Ave	0.6360	0.5966		23.4	25.0	-6.2	20.0
1,2,4-Trimethylbenzene	Ave	2.866	2.845		24.8	25.0	-0.7	20.0
sec-Butylbenzene	Ave	3.518	3.331		23.7	25.0	-5.3	20.0
4-Isopropyltoluene	Ave	3.132	3.027		24.2	25.0	-3.4	20.0
1,3-Dichlorobenzene	Ave	1.823	1.673	0.6000	22.9	25.0	-8.2	20.0
1,4-Dichlorobenzene	Ave	1.847	1.703	0.5000	23.1	25.0	-7.8	20.0
n-Butylbenzene	Ave	2.867	2.680		23.4	25.0	-6.5	20.0
1,2-Dichlorobenzene	Ave	1.859	1.719	0.4000	23.1	25.0	-7.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCVIS 480-309962/2 Calibration Date: 07/06/2016 22:36

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7858.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	0.2666	0.2716	0.0500	25.5	25.0	1.9	50.0
1,2,4-Trichlorobenzene	Ave	1.543	1.465	0.2000	23.7	25.0	-5.0	20.0
Hexachlorobutadiene	Ave	0.7121	0.6251		21.9	25.0	-12.2	20.0
Naphthalene	Ave	4.111	4.173		25.4	25.0	1.5	20.0
1,2,3-Trichlorobenzene	Ave	1.499	1.478		24.6	25.0	-1.4	20.0
Dibromofluoromethane (Surr)	Ave	1.433	1.480		25.8	25.0	3.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8911	0.9324		26.2	25.0	4.6	20.0
Toluene-d8 (Surr)	Ave	2.394	2.343		24.5	25.0	-2.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9094	0.9075		24.9	25.0	-0.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7858.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 06-Jul-2016 22:36:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0054624-002
Operator ID: SY Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 22:59:22 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 22:59:22

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	9.852	9.852	0.000	99	105224	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	85	216255	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	259542	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.043	0.000	93	155728	25.0	25.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.481	0.000	0	98108	25.0	26.2	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	93	506740	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.303	15.303	0.000	92	196251	25.0	24.9	
10 Dichlorodifluoromethane	85	4.018	4.018	0.000	99	213179	25.0	22.4	
11 Chloromethane	50	4.310	4.310	0.000	98	148999	25.0	20.9	
17 Vinyl chloride	62	4.541	4.541	0.000	98	129821	25.0	21.7	
144 Butadiene	54	4.565	4.565	0.000	95	127175	25.0	23.9	
12 Bromomethane	94	5.094	5.094	0.000	93	126200	25.0	28.8	
13 Chloroethane	64	5.222	5.222	0.000	97	98255	25.0	21.6	
19 Dichlorofluoromethane	67	5.514	5.514	0.000	97	335999	25.0	25.4	
14 Trichlorofluoromethane	101	5.630	5.630	0.000	98	354360	25.0	26.3	
20 Ethyl ether	59	5.928	5.928	0.000	97	170861	25.0	23.2	
22 Acrolein	56	6.177	6.177	0.000	99	209496	125.0	99.0	
16 1,1,2-Trichloro-1,2,2-trif	101	6.269	6.269	0.000	90	182850	25.0	23.3	
25 1,1-Dichloroethene	96	6.311	6.311	0.000	93	156808	25.0	22.6	
24 Acetone	43	6.354	6.354	0.000	98	545309	125.0	151.1	
18 Iodomethane	142	6.579	6.579	0.000	100	318457	25.0	23.9	
27 Carbon disulfide	76	6.694	6.694	0.000	100	490861	25.0	21.7	
30 Methyl acetate	43	6.725	6.725	0.000	99	1141388	125.0	115.0	
28 3-Chloro-1-propene	41	6.761	6.761	0.000	79	285940	25.0	22.3	
31 Methylene Chloride	84	6.932	6.932	0.000	96	170622	25.0	24.5	
33 2-Methyl-2-propanol	59	6.962	6.962	0.000	97	469929	250.0	326.6	
32 Methyl tert-butyl ether	73	7.187	7.187	0.000	98	583950	25.0	24.3	
34 Acrylonitrile	53	7.230	7.230	0.000	99	1115940	250.0	233.6	
35 trans-1,2-Dichloroethene	96	7.260	7.260	0.000	95	168315	25.0	22.6	
36 Hexane	57	7.491	7.491	0.000	94	232045	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
38 Vinyl acetate	43	7.729	7.729	0.000	97	942416	50.0	51.2	
40 1,1-Dichloroethane	63	7.777	7.777	0.000	97	324173	25.0	22.8	
44 2-Butanone (MEK)	43	8.428	8.428	0.000	99	790681	125.0	131.9	
45 2,2-Dichloropropane	77	8.477	8.477	0.000	63	275430	25.0	25.2	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	85	190037	25.0	22.8	
50 Chlorobromomethane	128	8.793	8.793	0.000	97	99121	25.0	23.0	
51 Tetrahydrofuran	42	8.824	8.824	0.000	87	194950	50.0	51.8	
49 Chloroform	83	8.836	8.836	0.000	95	317107	25.0	24.0	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	98	294136	25.0	23.8	
54 Cyclohexane	56	9.164	9.164	0.000	94	328336	25.0	23.0	
53 Isobutyl alcohol	43	9.243	9.243	0.000	94	452158	625.0	944.6	
56 1,1-Dichloropropene	75	9.274	9.274	0.000	93	224645	25.0	22.6	
55 Carbon tetrachloride	117	9.304	9.304	0.000	96	278303	25.0	25.9	
57 Benzene	78	9.548	9.548	0.000	98	628383	25.0	22.0	
60 1,2-Dichloroethane	62	9.572	9.572	0.000	97	308438	25.0	24.5	
59 n-Heptane	43	9.669	9.669	0.000	94	217065	25.0	22.7	
62 Trichloroethene	95	10.302	10.302	0.000	95	176330	25.0	22.6	
64 Methylcyclohexane	83	10.539	10.539	0.000	94	245804	25.0	20.9	
63 1,2-Dichloropropane	63	10.618	10.618	0.000	92	172204	25.0	23.3	
68 1,4-Dioxane	88	10.734	10.734	0.000	99	57313	500.0	701.3	
69 Dibromomethane	93	10.801	10.801	0.000	93	131009	25.0	24.2	
70 Dichlorobromomethane	83	10.941	10.941	0.000	98	230765	25.0	25.4	
71 2-Chloroethyl vinyl ether	63	11.202	11.202	0.000	94	107878	25.0	20.4	
73 cis-1,3-Dichloropropene	75	11.476	11.476	0.000	92	261072	25.0	23.9	
75 4-Methyl-2-pentanone (MIBK	43	11.586	11.586	0.000	98	1453545	125.0	122.9	
76 Toluene	92	11.920	11.920	0.000	97	415090	25.0	24.1	
77 Ethyl methacrylate	69	12.151	12.151	0.000	93	224524	25.0	25.2	
78 trans-1,3-Dichloropropene	75	12.176	12.176	0.000	97	255978	25.0	24.3	
79 1,1,2-Trichloroethane	83	12.462	12.462	0.000	92	129789	25.0	22.5	
80 Tetrachloroethene	166	12.668	12.668	0.000	90	191287	25.0	21.9	
83 2-Hexanone	43	12.675	12.675	0.000	98	1039651	125.0	125.9	
82 1,3-Dichloropropane	76	12.699	12.699	0.000	96	269694	25.0	23.4	
81 Chlorodibromomethane	129	13.046	13.046	0.000	90	183438	25.0	25.2	
85 Ethylene Dibromide	107	13.240	13.240	0.000	99	177634	25.0	24.1	
87 Chlorobenzene	112	13.837	13.837	0.000	95	506115	25.0	22.3	
89 Ethylbenzene	91	13.897	13.897	0.000	99	796597	25.0	23.0	
88 1,1,1,2-Tetrachloroethane	131	13.916	13.916	0.000	93	200162	25.0	26.7	
90 m-Xylene & p-Xylene	106	14.037	14.037	0.000	0	304671	25.0	23.7	
93 o-Xylene	106	14.591	14.591	0.000	98	314554	25.0	24.1	
94 Styrene	104	14.609	14.609	0.000	94	483121	25.0	24.8	
92 Bromoform	173	14.962	14.962	0.000	96	132233	25.0	23.0	
95 Isopropylbenzene	105	15.029	15.029	0.000	96	798060	25.0	23.7	
97 1,1,2,2-Tetrachloroethane	83	15.455	15.455	0.000	98	260168	25.0	23.7	
98 trans-1,4-Dichloro-2-buten	53	15.510	15.510	0.000	80	89956	25.0	20.6	
101 1,2,3-Trichloropropane	110	15.546	15.546	0.000	76	85043	25.0	26.1	
100 Bromobenzene	156	15.552	15.552	0.000	93	244825	25.0	24.0	
99 N-Propylbenzene	91	15.564	15.564	0.000	99	967753	25.0	23.3	
103 2-Chlorotoluene	126	15.747	15.747	0.000	95	202141	25.0	23.2	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	692479	25.0	24.3	
105 4-Chlorotoluene	126	15.881	15.881	0.000	98	208666	25.0	23.2	
106 tert-Butylbenzene	134	16.197	16.197	0.000	92	154829	25.0	23.4	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	738345	25.0	24.8	

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	16.465	16.465	0.000	95	864646	25.0	23.7	
112 4-Isopropyltoluene	119	16.617	16.617	0.000	96	785567	25.0	24.2	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	98	434216	25.0	22.9	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	442109	25.0	23.1	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	695511	25.0	23.4	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	446241	25.0	23.1	
117 1,2-Dibromo-3-Chloropropan	75	18.271	18.271	0.000	86	70488	25.0	25.5	
119 1,2,4-Trichlorobenzene	180	19.348	19.348	0.000	94	380173	25.0	23.7	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	94	162248	25.0	21.9	
121 Naphthalene	128	19.750	19.750	0.000	97	1083184	25.0	25.4	
122 1,2,3-Trichlorobenzene	180	20.109	20.109	0.000	95	383523	25.0	24.6	

Reagents:

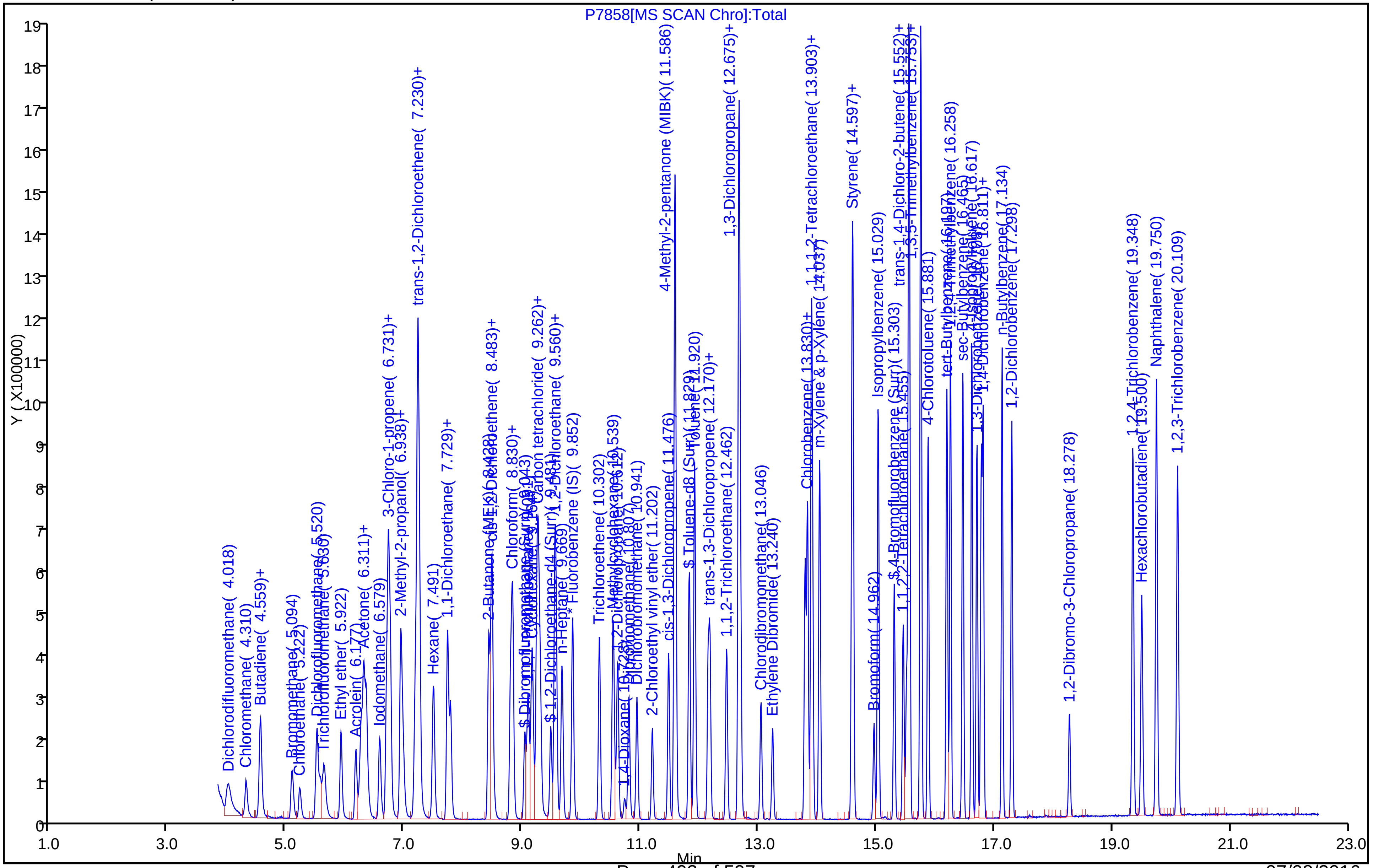
8260 CORP mix_00077	Amount Added: 12.50	Units: uL	
GAS CORP mix_00164	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

Report Date: 06-Jul-2016 22:59:22 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7858.D				
Injection Date:	06-Jul-2016 22:36:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



 07/08/2016

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCV 480-309962/3 Calibration Date: 07/06/2016 23:03

Instrument ID: HP5973P Calib Start Date: 06/19/2016 22:45

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 01:29

Lab File ID: P7859.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
Dibromofluoromethane (Surr)	Ave	1.433	1.506		26.3	25.0	5.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8911	1.028		28.8	25.0	15.3	20.0
Toluene-d8 (Surr)	Ave	2.394	2.362		24.7	25.0	-1.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9094	0.9546		26.2	25.0	5.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7859.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 06-Jul-2016 23:03:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 480-0054624-003
Operator ID: SY Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub29

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 23:24:05 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 23:24:05

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	9.852	9.852	0.000	99	104765	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	220034	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	93	275906	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.049	0.000	93	157813	25.0	26.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.493	9.493	0.000	0	107646	25.0	28.8	
$ 5 Toluene-d8 (Surr)	98	11.835	11.835	0.000	93	519695	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	93	210043	25.0	26.2	
15 Chlorodifluoromethane	51	4.042	4.042	0.000	97	188687	25.0	19.8	
141 Ethanol	45	5.812	5.812	0.000	99	89936	1000.0	1293.6	
26 Propene oxide	58	6.086	6.086	0.000	96	316397	NC	NC	
23 Isopropyl alcohol	45	6.469	6.469	0.000	98	209063	250.0	321.7	
29 Acetonitrile	40	6.761	6.761	0.000	99	166448	250.0	244.2	
37 Isopropyl ether	45	7.710	7.710	0.000	96	624878	25.0	22.7	
39 1,1-Dimethoxyethane	75	7.814	7.814	0.000	97	265253	125.0	126.2	
41 2-Chloro-1,3-butadiene	53	7.881	7.881	0.000	95	317517	25.0	24.3	
42 Tert-butyl ethyl ether	59	8.154	8.154	0.000	99	623470	25.0	24.0	
46 Ethyl acetate	43	8.428	8.428	0.000	100	592070	50.0	49.8	
47 Propionitrile	54	8.562	8.562	0.000	98	433800	250.0	259.3	
48 Methacrylonitrile	41	8.732	8.732	0.000	94	1536183	250.0	227.1	
140 t-Amyl alcohol	59	9.383	9.383	0.000	96	308056	250.0	278.3	
146 Isooctane	57	9.511	9.511	0.000	97	531805	25.0	22.1	
58 Tert-amyl methyl ether	73	9.554	9.554	0.000	96	524000	25.0	23.2	
1 1,4-Difluorobenzene	114	9.931	9.931	0.000	94	560226	25.0	23.1	
61 n-Butanol	56	10.046	10.046	0.000	90	208046	625.0	882.7	
145 Ethyl acrylate	55	10.284	10.284	0.000	99	305071	25.0	24.2	
65 Methyl methacrylate	41	10.582	10.582	0.000	93	431261	50.0	49.2	
72 2-Nitropropane	43	11.214	11.214	0.000	96	160300	50.0	51.9	
74 Epichlorohydrin	57	11.373	11.373	0.000	100	325655	250.0	246.8	
149 n-Butyl acetate	43	12.760	12.760	0.000	99	390340	25.0	22.9	
84 3-Chlorobenzotrifluoride	180	13.636	13.636	0.000	94	300664	25.0	22.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	13.660	13.660	0.000	97	171559	25.0	23.2	
86 4-Chlorobenzotrifluoride	180	13.709	13.709	0.000	96	281842	25.0	21.6	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	97	309885	25.0	21.9	
96 Cyclohexanone	55	15.272	15.272	0.000	95	107391	250.0	281.4	
104 3-Chlorotoluene	126	15.820	15.820	0.000	97	210480	25.0	22.5	
108 Pentachloroethane	167	16.312	16.312	0.000	87	141848	25.0	25.8	
113 1,2,3-Trimethylbenzene	105	16.817	16.817	0.000	98	770104	25.0	22.0	
114 Dicyclopentadiene	66	16.836	16.836	0.000	97	621303	25.0	22.0	
143 Benzyl chloride	126	16.970	16.970	0.000	99	108103	25.0	26.7	
118 1,3,5-Trichlorobenzene	180	18.490	18.490	0.000	97	378534	25.0	22.1	
142 2-Methylnaphthalene	142	21.569	21.569	0.000	93	694053	25.0	21.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00048	Amount Added: 12.50	Units: uL	
P 8260 IS_00152	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

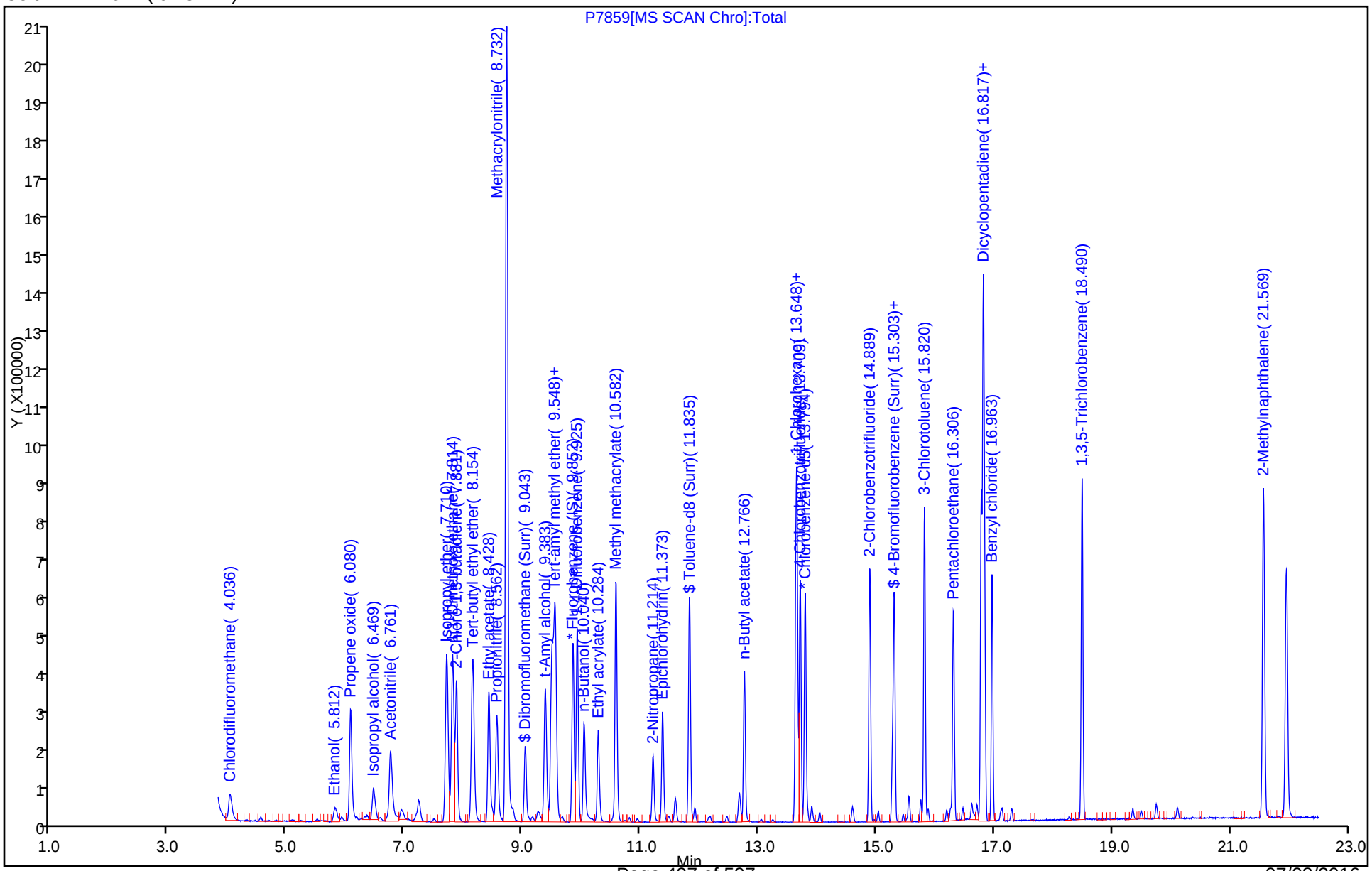
Report Date: 06-Jul-2016 23:24:05 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7859.D

Injection Date:	06-Jul-2016 23:03:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Lab Sample ID: CCV 480-309962/3 Calibration Date: 07/06/2016 23:03

Instrument ID: HP5973P Calib Start Date: 06/20/2016 02:23

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 06/20/2016 05:07

Lab File ID: P7859.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
Chlorodifluoromethane	Ave	2.279	1.801		19.8	25.0	-21.0*	20.0
Ethanol	Ave	0.0166	0.0215		1290	1000	29.4*	20.0
Isopropyl alcohol	Ave	0.1551	0.1996		322	250	28.7*	20.0
Acetonitrile	Ave	0.1627	0.1589		244	250	-2.3	20.0
Isopropyl ether	Ave	6.561	5.965		22.7	25.0	-9.1	20.0
1,1-Dimethoxyethane	Ave	0.5016	0.5064		126	125	1.0	20.0
Chloroprene	Ave	3.123	3.031		24.3	25.0	-3.0	20.0
Tert-butyl ethyl ether	Ave	6.203	5.951		24.0	25.0	-4.1	20.0
Ethyl acetate	Ave	2.835	2.826		49.8	50.0	-0.3	20.0
Propionitrile	Ave	0.3993	0.4141		259	250	3.7	20.0
Methacrylonitrile	Ave	1.614	1.466		227	250	-9.2	20.0
t-Amyl alcohol	Ave	0.2642	0.2940		278	250	11.3	20.0
Isooctane	Ave	5.740	5.076		22.1	25.0	-11.6	20.0
Tert-amyl methyl ether	Ave	5.390	5.002		23.2	25.0	-7.2	20.0
1,4-Difluorobenzene	Ave	5.791	5.347		23.1	25.0	-7.7	20.0
n-Butanol	Ave	0.0562	0.0794		883	625	41.2*	20.0
Ethyl acrylate	Ave	3.011	2.912		24.2	25.0	-3.3	20.0
Methyl methacrylate	Ave	2.093	2.058		49.2	50.0	-1.7	20.0
2-Nitropropane	Lin1		0.2905		51.9	50.0	3.7	20.0
Epichlorohydrin	Ave	0.3149	0.3108		247	250	-1.3	20.0
n-Butyl acetate	Ave	1.939	1.774	0.1000	22.9	25.0	-8.5	20.0
3-Chlorobenzotrifluoride	Ave	1.226	1.090		22.2	25.0	-11.1	20.0
1-Chlorohexane	Ave	0.8403	0.7797		23.2	25.0	-7.2	20.0
4-Chlorobenzotrifluoride	Ave	1.185	1.022		21.6	25.0	-13.8	20.0
2-Chlorobenzotrifluoride	Ave	1.280	1.123		21.9	25.0	-12.2	20.0
Cyclohexanone	Ave	0.0346	0.0389		281	250	12.6	20.0
3-Chlorotoluene	Ave	0.8487	0.7629		22.5	25.0	-10.1	20.0
Pentachloroethane	Ave	0.4982	0.5141		25.8	25.0	3.2	20.0
1,2,3-Trimethylbenzene	Ave	3.174	2.791		22.0	25.0	-12.1	20.0
Dicyclopentadiene	Ave	2.562	2.252		22.0	25.0	-12.1	20.0
Benzyl chloride	Ave	0.3669	0.3918		26.7	25.0	6.8	20.0
1,3,5-Trichlorobenzene	Ave	1.551	1.372		22.1	25.0	-11.6	20.0
2-Methylnaphthalene	Lin1		2.516		21.7	25.0	-13.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7859.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 06-Jul-2016 23:03:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Misc. Info.: 480-0054624-003
Operator ID: SY Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub29

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 23:24:05 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 23:24:05

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	9.852	9.852	0.000	99	104765	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	220034	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	93	275906	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.049	0.000	93	157813	25.0	26.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.493	9.493	0.000	0	107646	25.0	28.8	
$ 5 Toluene-d8 (Surr)	98	11.835	11.835	0.000	93	519695	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	93	210043	25.0	26.2	
15 Chlorodifluoromethane	51	4.042	4.042	0.000	97	188687	25.0	19.8	
141 Ethanol	45	5.812	5.812	0.000	99	89936	1000.0	1293.6	
26 Propene oxide	58	6.086	6.086	0.000	96	316397	NC	NC	
23 Isopropyl alcohol	45	6.469	6.469	0.000	98	209063	250.0	321.7	
29 Acetonitrile	40	6.761	6.761	0.000	99	166448	250.0	244.2	
37 Isopropyl ether	45	7.710	7.710	0.000	96	624878	25.0	22.7	
39 1,1-Dimethoxyethane	75	7.814	7.814	0.000	97	265253	125.0	126.2	
41 2-Chloro-1,3-butadiene	53	7.881	7.881	0.000	95	317517	25.0	24.3	
42 Tert-butyl ethyl ether	59	8.154	8.154	0.000	99	623470	25.0	24.0	
46 Ethyl acetate	43	8.428	8.428	0.000	100	592070	50.0	49.8	
47 Propionitrile	54	8.562	8.562	0.000	98	433800	250.0	259.3	
48 Methacrylonitrile	41	8.732	8.732	0.000	94	1536183	250.0	227.1	
140 t-Amyl alcohol	59	9.383	9.383	0.000	96	308056	250.0	278.3	
146 Isooctane	57	9.511	9.511	0.000	97	531805	25.0	22.1	
58 Tert-amyl methyl ether	73	9.554	9.554	0.000	96	524000	25.0	23.2	
1 1,4-Difluorobenzene	114	9.931	9.931	0.000	94	560226	25.0	23.1	
61 n-Butanol	56	10.046	10.046	0.000	90	208046	625.0	882.7	
145 Ethyl acrylate	55	10.284	10.284	0.000	99	305071	25.0	24.2	
65 Methyl methacrylate	41	10.582	10.582	0.000	93	431261	50.0	49.2	
72 2-Nitropropane	43	11.214	11.214	0.000	96	160300	50.0	51.9	
74 Epichlorohydrin	57	11.373	11.373	0.000	100	325655	250.0	246.8	
149 n-Butyl acetate	43	12.760	12.760	0.000	99	390340	25.0	22.9	
84 3-Chlorobenzotrifluoride	180	13.636	13.636	0.000	94	300664	25.0	22.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	13.660	13.660	0.000	97	171559	25.0	23.2	
86 4-Chlorobenzotrifluoride	180	13.709	13.709	0.000	96	281842	25.0	21.6	
91 2-Chlorobenzotrifluoride	180	14.889	14.889	0.000	97	309885	25.0	21.9	
96 Cyclohexanone	55	15.272	15.272	0.000	95	107391	250.0	281.4	
104 3-Chlorotoluene	126	15.820	15.820	0.000	97	210480	25.0	22.5	
108 Pentachloroethane	167	16.312	16.312	0.000	87	141848	25.0	25.8	
113 1,2,3-Trimethylbenzene	105	16.817	16.817	0.000	98	770104	25.0	22.0	
114 Dicyclopentadiene	66	16.836	16.836	0.000	97	621303	25.0	22.0	
143 Benzyl chloride	126	16.970	16.970	0.000	99	108103	25.0	26.7	
118 1,3,5-Trichlorobenzene	180	18.490	18.490	0.000	97	378534	25.0	22.1	
142 2-Methylnaphthalene	142	21.569	21.569	0.000	93	694053	25.0	21.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

ADD CORP mix_00048	Amount Added: 12.50	Units: uL	
P 8260 IS_00152	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

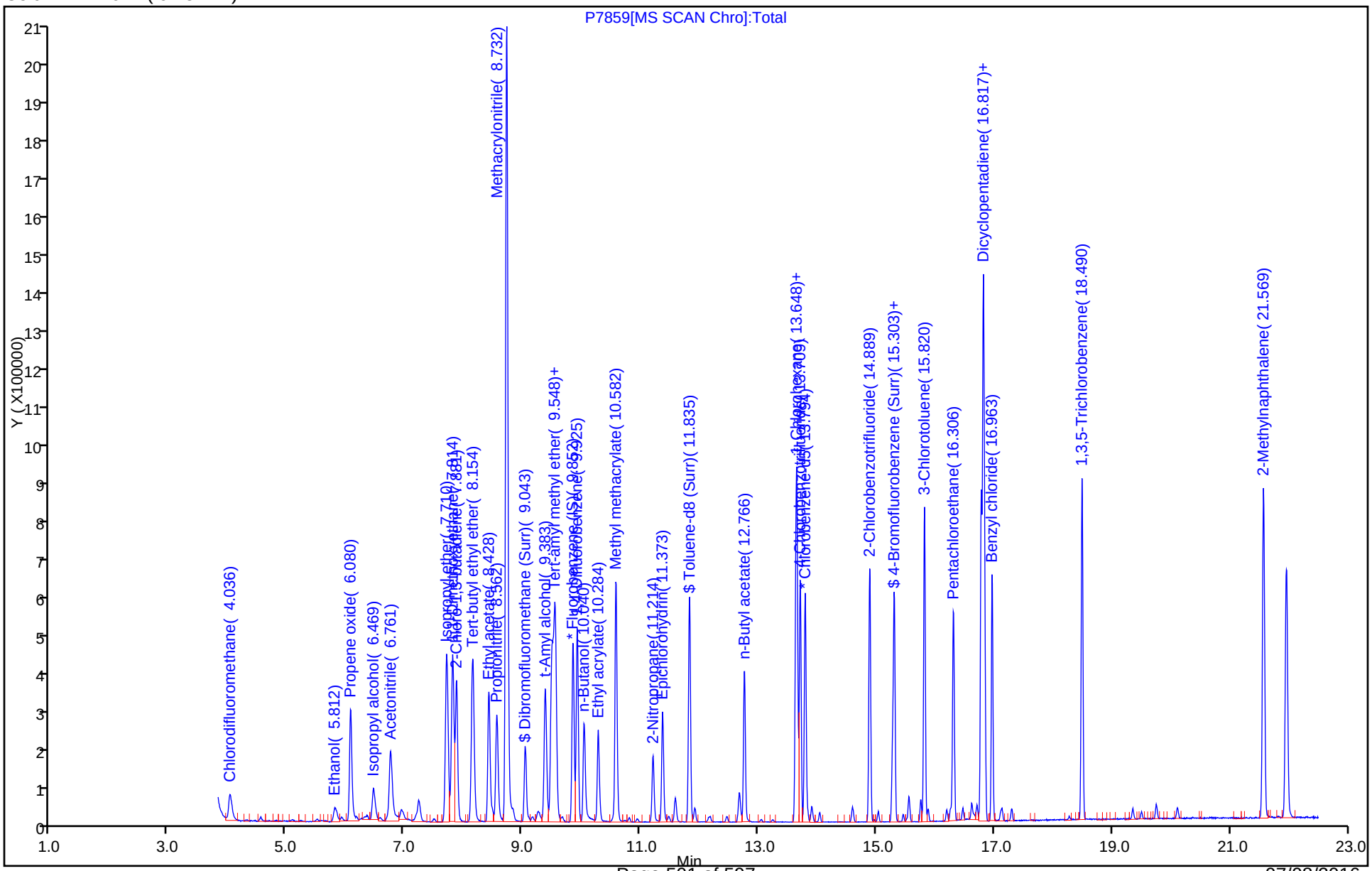
Report Date: 06-Jul-2016 23:24:05 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7859.D

Injection Date:	06-Jul-2016 23:03:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	CCV			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7349.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	19-Jun-2016 21:49:30	ALS Bottle#:	4	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0054167-002				
Operator ID:	NMD	Instrument ID:	HP5973P		
Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	20-Jun-2016 12:54:50	Calib Date:	20-Jun-2016 05:07:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK052				
First Level Reviewer: diasn		Date:	19-Jun-2016 22:10:07		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.158	7.158	0.000	0	69932	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

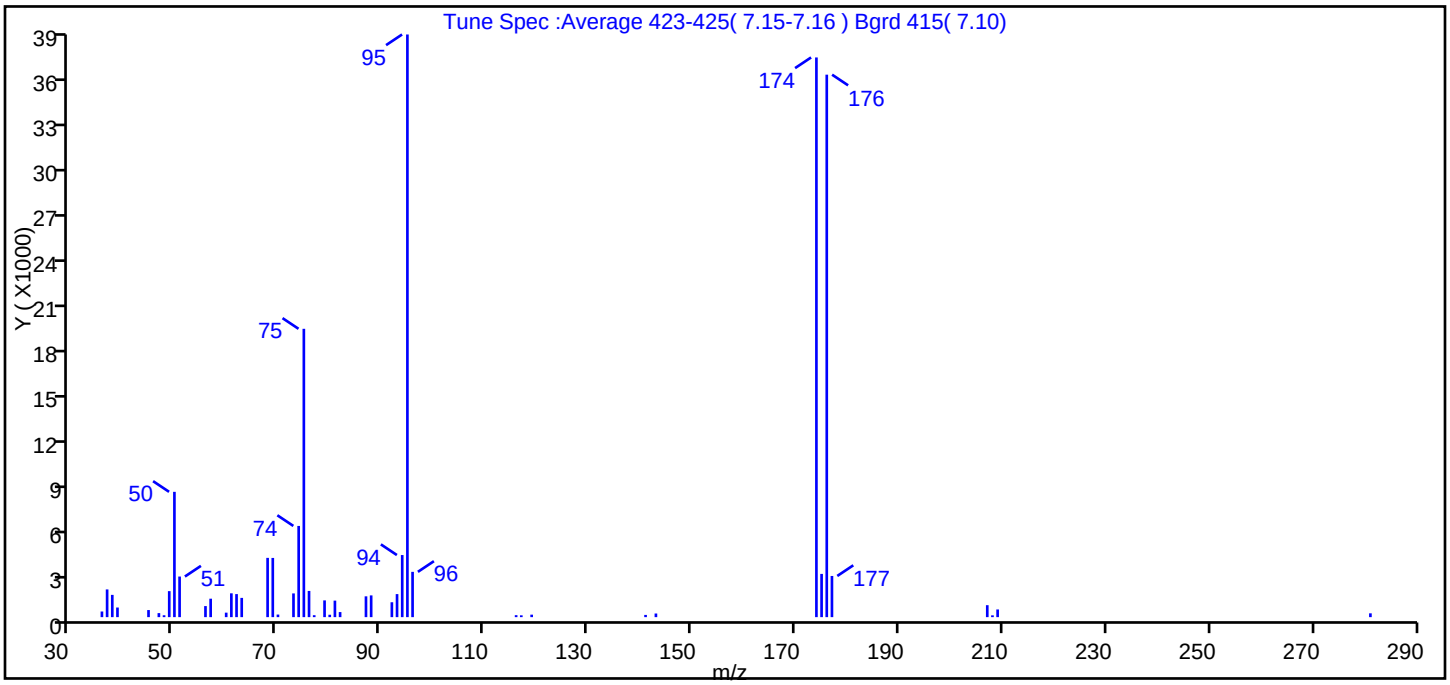
BFB_WRK_00054 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7349.D
Injection Date: 19-Jun-2016 21:49:30 Instrument ID: HP5973P
Lims ID: BFB
Client ID:
Operator ID: NMD ALS Bottle#: 4 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.5
75	30 to 60% of m/z 95	49.5
96	5 to 9% of m/z 95	7.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	96.1
175	5 to 9% of m/z 174	7.4 (7.7)
176	Greater than 95% but less than 101% of m/z 174	93.1 (96.9)
177	5 to 9% of m/z 176	7.1 (7.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7349.D\P-8260H2O.rslt\spectra.d
Injection Date: 19-Jun-2016 21:49:30
Spectrum: Tune Spec :Average 423-425(7.15-7.16) Bgrd 415(7.10)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	370	60.00	294	79.00	1097	117.00	119
37.00	1815	61.00	1560	80.00	157	119.00	163
38.00	1458	62.00	1509	81.00	1082	141.00	146
39.00	630	63.00	1261	82.00	332	143.00	238
45.00	464	68.00	3881	87.00	1363	174.00	36648
47.00	264	69.00	3877	88.00	1424	175.00	2831
48.00	124	70.00	169	92.00	975	176.00	35520
49.00	1703	73.00	1554	93.00	1509	177.00	2696
50.00	8205	74.00	5972	94.00	4066	207.00	783
51.00	2659	75.00	18880	95.00	38152	208.00	118
56.00	724	76.00	1716	96.00	2966	209.00	503
57.00	1208	77.00	127	116.00	129	281.00	250

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7805.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Jul-2016 21:24:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	bfb				
Misc. Info.:	480-0054594-001				
Operator ID:	SY	Instrument ID:	HP5973P		
Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	05-Jul-2016 21:29:51	Calib Date:	20-Jun-2016 05:07:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK026				
First Level Reviewer: youngmans		Date:	05-Jul-2016 21:29:51		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.177	7.177	0.000	0	138051	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

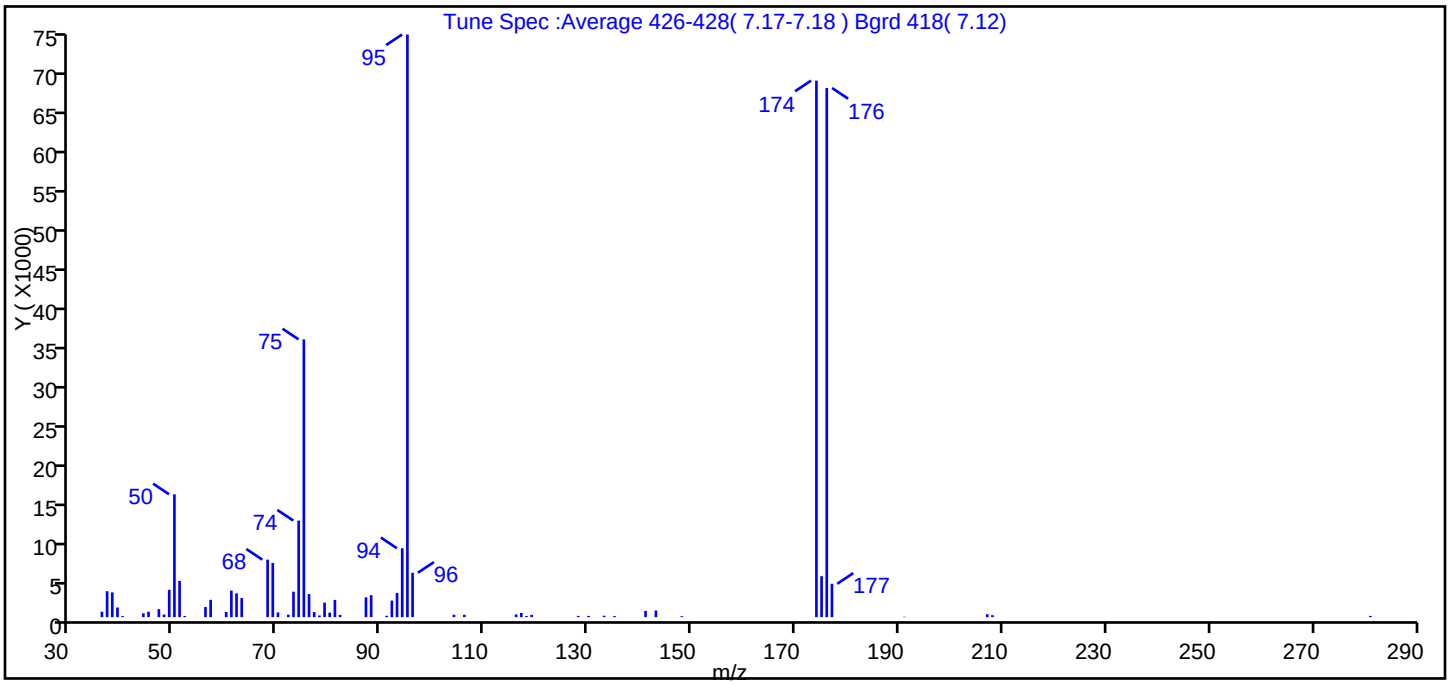
BFB_WRK_00054 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7805.D
Injection Date: 05-Jul-2016 21:24:30 Instrument ID: HP5973P
Lims ID: BFB
Client ID:
Operator ID: SY ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.1
75	30 to 60% of m/z 95	47.7
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	92.1
175	5 to 9% of m/z 174	7.0 (7.6)
176	Greater than 95% but less than 101% of m/z 174	90.8 (98.6)
177	5 to 9% of m/z 176	5.7 (6.3)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7805.D\P-8260H2O.rslt\spectra.d
Injection Date: 05-Jul-2016 21:24:30
Spectrum: Tune Spec :Average 426-428(7.17-7.18) Bgrd 418(7.12)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	697	61.00	3415	82.00	295	130.00	159
37.00	3337	62.00	3061	87.00	2552	133.00	185
38.00	3186	63.00	2465	88.00	2828	135.00	141
39.00	1242	68.00	7400	91.00	173	141.00	807
40.00	138	69.00	6976	92.00	2129	143.00	852
44.00	489	70.00	602	93.00	3113	148.00	120
45.00	697	72.00	311	94.00	8867	174.00	69040
47.00	1032	73.00	3277	95.00	74976	175.00	5270
48.00	334	74.00	12421	96.00	5713	176.00	68088
49.00	3519	75.00	35744	104.00	306	177.00	4294
50.00	15805	76.00	2969	106.00	302	191.00	49
51.00	4663	77.00	650	116.00	352	207.00	375
52.00	144	78.00	208	117.00	545	208.00	253
56.00	1303	79.00	1866	118.00	142	281.00	159
57.00	2227	80.00	579	119.00	293		
60.00	659	81.00	2215	128.00	160		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7834.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Jul-2016 09:55:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0054607-001				
Operator ID:	CDC	Instrument ID:	HP5973P		
Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	06-Jul-2016 17:54:59	Calib Date:	20-Jun-2016 05:07:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK034				
First Level Reviewer: cwiklinc		Date:	06-Jul-2016 10:02:58		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.159	7.159	0.000	0	58658	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

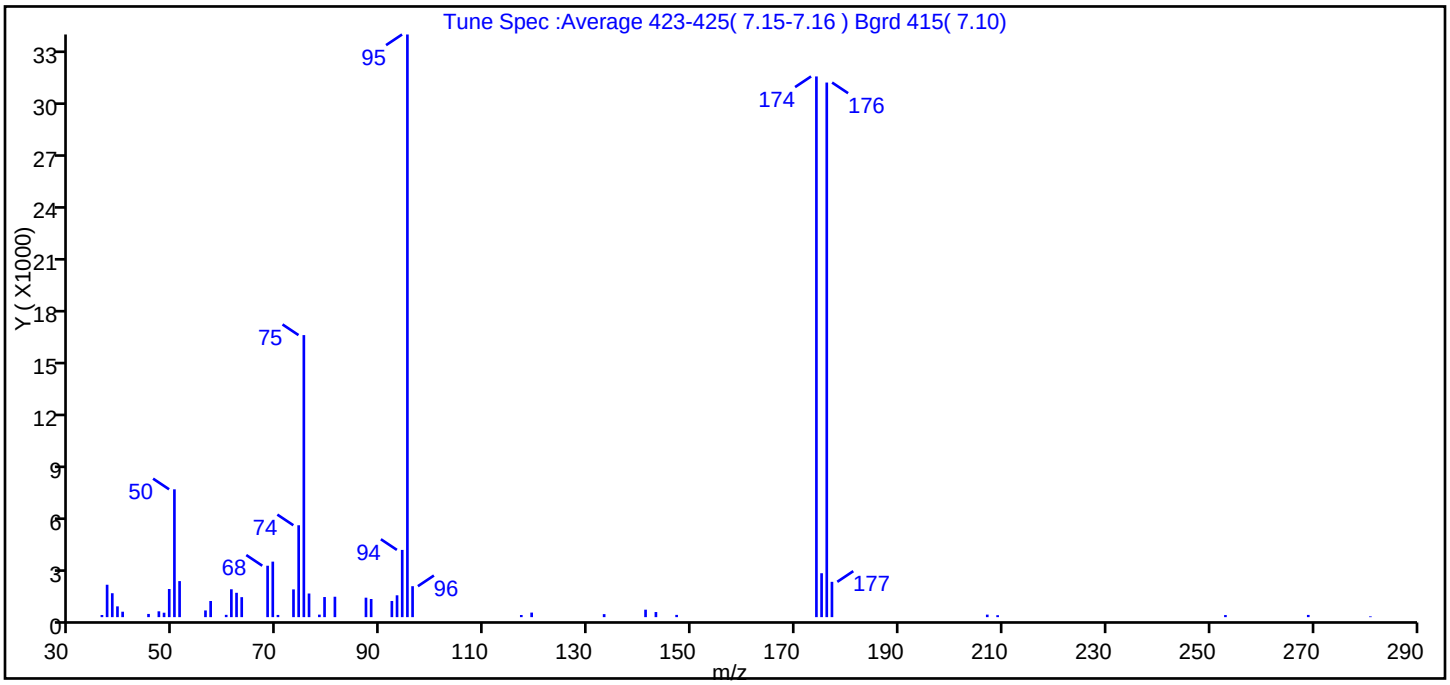
BFB_WRK_00055 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7834.D
Injection Date: 06-Jul-2016 09:55:30 Instrument ID: HP5973P
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.9
75	30 to 60% of m/z 95	48.4
96	5 to 9% of m/z 95	5.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	92.8
175	5 to 9% of m/z 174	7.5 (8.1)
176	Greater than 95% but less than 101% of m/z 174	91.8 (98.9)
177	5 to 9% of m/z 176	6.1 (6.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7834.D\P-8260H2O.rslt\spectra.d
Injection Date: 06-Jul-2016 09:55:30
Spectrum: Tune Spec :Average 423-425(7.15-7.16) Bgrd 415(7.10)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	123	60.00	133	81.00	1175	147.00	130
37.00	1866	61.00	1605	87.00	1121	174.00	31136
38.00	1377	62.00	1402	88.00	1045	175.00	2529
39.00	621	63.00	1151	92.00	931	176.00	30784
40.00	313	68.00	2961	93.00	1258	177.00	2034
45.00	185	69.00	3197	94.00	3872	207.00	145
47.00	336	70.00	127	95.00	33552	209.00	112
48.00	255	73.00	1599	96.00	1782	253.00	120
49.00	1620	74.00	5291	117.00	123	269.00	128
50.00	7361	75.00	16241	119.00	263	281.00	43
51.00	2076	76.00	1361	133.00	174		
56.00	386	78.00	144	141.00	430		
57.00	930	79.00	1158	143.00	295		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7857.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Jul-2016 22:09:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0054624-001				
Operator ID:	SY	Instrument ID:	HP5973P		
Method:	\\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	06-Jul-2016 22:14:31	Calib Date:	20-Jun-2016 05:07:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK001				
First Level Reviewer: youngmans		Date:	06-Jul-2016 22:14:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.183	7.183	0.000	0	155350	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

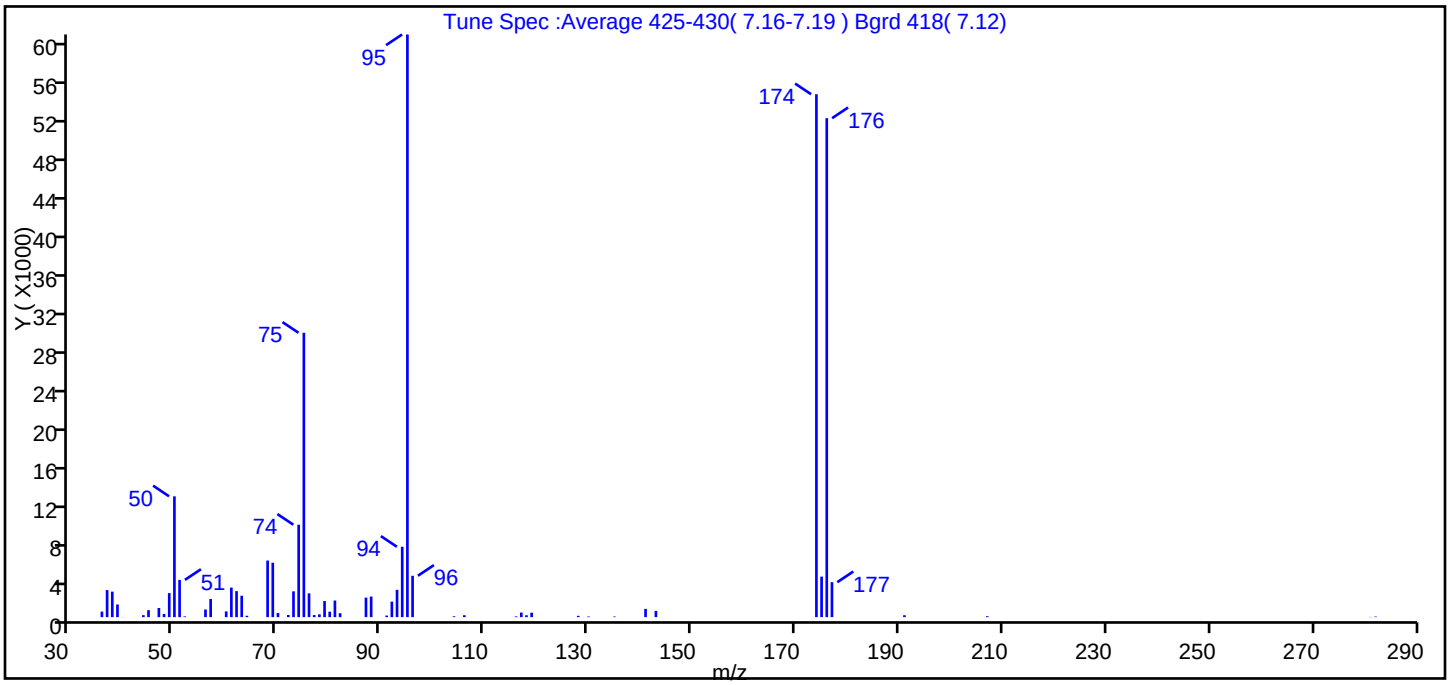
BFB_WRK_00055 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7857.D
Injection Date: 06-Jul-2016 22:09:30 Instrument ID: HP5973P
Lims ID: BFB
Client ID:
Operator ID: SY ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.7
75	30 to 60% of m/z 95	48.8
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	89.7
175	5 to 9% of m/z 174	7.0 (7.7)
176	Greater than 95% but less than 101% of m/z 174	85.6 (95.4)
177	5 to 9% of m/z 176	6.0 (7.0)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7857.D\P-8260H2O.rslt\spectra.d
Injection Date: 06-Jul-2016 22:09:30
Spectrum: Tune Spec :Average 425-430(7.16-7.19) Bgrd 418(7.12)
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	578	61.00	3071	81.00	1728	128.00	138
37.00	2813	62.00	2704	82.00	408	130.00	63
38.00	2648	63.00	2221	87.00	2031	135.00	63
39.00	1314	64.00	144	88.00	2138	141.00	859
40.00	13	68.00	5880	91.00	163	143.00	650
44.00	206	69.00	5655	92.00	1610	174.00	54328
45.00	726	70.00	436	93.00	2835	175.00	4208
47.00	951	72.00	223	94.00	7311	176.00	51840
48.00	328	73.00	2683	95.00	60536	177.00	3632
49.00	2496	74.00	9604	96.00	4298	191.00	199
50.00	12552	75.00	29544	104.00	87	207.00	95
51.00	3870	76.00	2470	106.00	200	281.00	20
52.00	78	77.00	218	116.00	75	282.00	58
56.00	795	78.00	288	117.00	477		
57.00	1888	79.00	1673	118.00	193		
60.00	597	80.00	566	119.00	462		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-309812/6

Matrix: Water | Lab File ID: P7810.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/05/2016 23:40

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.: 309812 | 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.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-309812/6

Matrix: Water | Lab File ID: P7810.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/05/2016 23:40

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	98		66-137
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		60-140
2037-26-5	Toluene-d8 (Surr)	94		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7810.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Jul-2016 23:40:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Misc. Info.: 480-0054594-006
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:00:02

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	9.858	9.852	0.006	98	114364	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	87	236686	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	286865	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.048	9.043	0.005	94	162536	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.005	0	99810	25.0	24.5	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	93	535127	25.0	23.6	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	93	203442	25.0	23.6	
10 Dichlorodifluoromethane	85		4.017					ND	
15 Chlorodifluoromethane	51		4.024					ND	
11 Chloromethane	50		4.322					ND	
17 Vinyl chloride	62		4.553					ND	
144 Butadiene	54		4.565					ND	
12 Bromomethane	94		5.094					ND	
13 Chloroethane	64		5.228					ND	
19 Dichlorofluoromethane	67		5.514					ND	
14 Trichlorofluoromethane	101		5.636					ND	
141 Ethanol	45		5.800					ND	
20 Ethyl ether	59		5.922					ND	
26 Propene oxide	58		6.080					ND	
22 Acrolein	56		6.171					ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.274					ND	
25 1,1-Dichloroethene	96		6.311					ND	
18 Iodomethane	142		6.579					ND	
30 Methyl acetate	43		6.731					ND	
29 Acetonitrile	40		6.755					ND	
31 Methylene Chloride	84		6.938					ND	
33 2-Methyl-2-propanol	59	6.962	6.968	-0.006	95	16373		10.5	
32 Methyl tert-butyl ether	73		7.193					ND	
34 Acrylonitrile	53	7.236	7.230	0.006	95	6954		1.34	
35 trans-1,2-Dichloroethene	96		7.254					ND	
37 Isopropyl ether	45		7.710					ND	

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		7.728					ND	
40 1,1-Dichloroethane	63		7.783					ND	
39 1,1-Dimethoxyethane	75		7.814					ND	
41 2-Chloro-1,3-butadiene	53		7.875					ND	
42 Tert-butyl ethyl ether	59		8.148					ND	
46 Ethyl acetate	43		8.422					ND	
44 2-Butanone (MEK)	43		8.428					ND	
43 cis-1,2-Dichloroethene	96		8.483					ND	
45 2,2-Dichloropropane	77		8.483					ND	
48 Methacrylonitrile	41		8.726					ND	
50 Chlorobromomethane	128		8.799					ND	
51 Tetrahydrofuran	42		8.830					ND	
49 Chloroform	83		8.836					ND	
52 1,1,1-Trichloroethane	97		9.097					ND	
54 Cyclohexane	56		9.164					ND	
53 Isobutyl alcohol	43		9.243					ND	
56 1,1-Dichloropropene	75		9.274					ND	
55 Carbon tetrachloride	117		9.298					ND	
140 t-Amyl alcohol	59	9.389	9.389	0.000	1	1158		0.9582	
146 Isooctane	57		9.511					ND	
57 Benzene	78		9.547					ND	
58 Tert-amyl methyl ether	73		9.548					ND	
60 1,2-Dichloroethane	62		9.572					ND	
59 n-Heptane	43		9.669					ND	
66 2-Methylthiophene	97		9.687					ND	
67 3-Methylthiophene	97	9.858	9.894	-0.036	42	39928		NC	
1 1,4-Difluorobenzene	114		9.925					ND	
61 n-Butanol	56		10.040					ND	
145 Ethyl acrylate	55		10.284					ND	
65 Methyl methacrylate	41		10.582					ND	
63 1,2-Dichloropropane	63		10.612					ND	
68 1,4-Dioxane	88		10.734					ND	
69 Dibromomethane	93		10.801					ND	
70 Dichlorobromomethane	83		10.941					ND	
71 2-Chloroethyl vinyl ether	63		11.202					ND	
72 2-Nitropropane	43		11.208					ND	
74 Epichlorohydrin	57		11.373					ND	
73 cis-1,3-Dichloropropene	75		11.476					ND	
75 4-Methyl-2-pentanone (MIBK	43		11.585					ND	
76 Toluene	92		11.920					ND	
77 Ethyl methacrylate	69		12.145					ND	
78 trans-1,3-Dichloropropene	75		12.176					ND	
79 1,1,2-Trichloroethane	83		12.461					ND	
83 2-Hexanone	43		12.674					ND	
82 1,3-Dichloropropane	76		12.699					ND	
149 n-Butyl acetate	43		12.766					ND	
81 Chlorodibromomethane	129		13.045					ND	
85 Ethylene Dibromide	107		13.240					ND	
84 3-Chlorobenzotrifluoride	180		13.642					ND	
139 1-Chlorohexane	55		13.660					ND	
86 4-Chlorobenzotrifluoride	180		13.709					ND	
87 Chlorobenzene	112		13.836					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
88 1,1,1,2-Tetrachloroethane	131		13.915					ND	
90 m-Xylene & p-Xylene	106		14.043					ND	
93 o-Xylene	106		14.591					ND	
94 Styrene	104		14.609					ND	
91 2-Chlorobenzotrifluoride	180		14.889					ND	
92 Bromoform	173		14.962					ND	
95 Isopropylbenzene	105		15.035					ND	
96 Cyclohexanone	55		15.278					ND	
97 1,1,2,2-Tetrachloroethane	83		15.455					ND	
98 trans-1,4-Dichloro-2-buten	53		15.509					ND	
101 1,2,3-Trichloropropane	110		15.546					ND	
100 Bromobenzene	156		15.552					ND	
99 N-Propylbenzene	91		15.558					ND	
103 2-Chlorotoluene	126		15.753					ND	
107 1,2,4-Trimethylbenzene	105		16.258					ND	
108 Pentachloroethane	167		16.313					ND	
114 Dicyclopentadiene	66		16.836					ND	
143 Benzyl chloride	126		16.964					ND	
116 1,2-Dichlorobenzene	146		17.298					ND	
117 1,2-Dibromo-3-Chloropropan	75		18.277					ND	
118 1,3,5-Trichlorobenzene	180		18.491					ND	
119 1,2,4-Trichlorobenzene	180	19.348	19.354	-0.006	80	3091		0.1746	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	56	1623		0.1986	
121 Naphthalene	128		19.750					ND	
122 1,2,3-Trichlorobenzene	180		20.109					ND	
142 2-Methylnaphthalene	142		21.569					ND	
138 Ethylene oxide TIC	1		0.000					ND	
136 Propene oxide TIC	1		0.000					ND	
137 1-Bromopropane TIC	1		0.000					ND	
135 Pentachloroethane TIC	1		0.000					ND	
134 Halothane	1		0.000					ND	
S 123 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		5.300					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 128 Hexachloroethane TIC	201		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

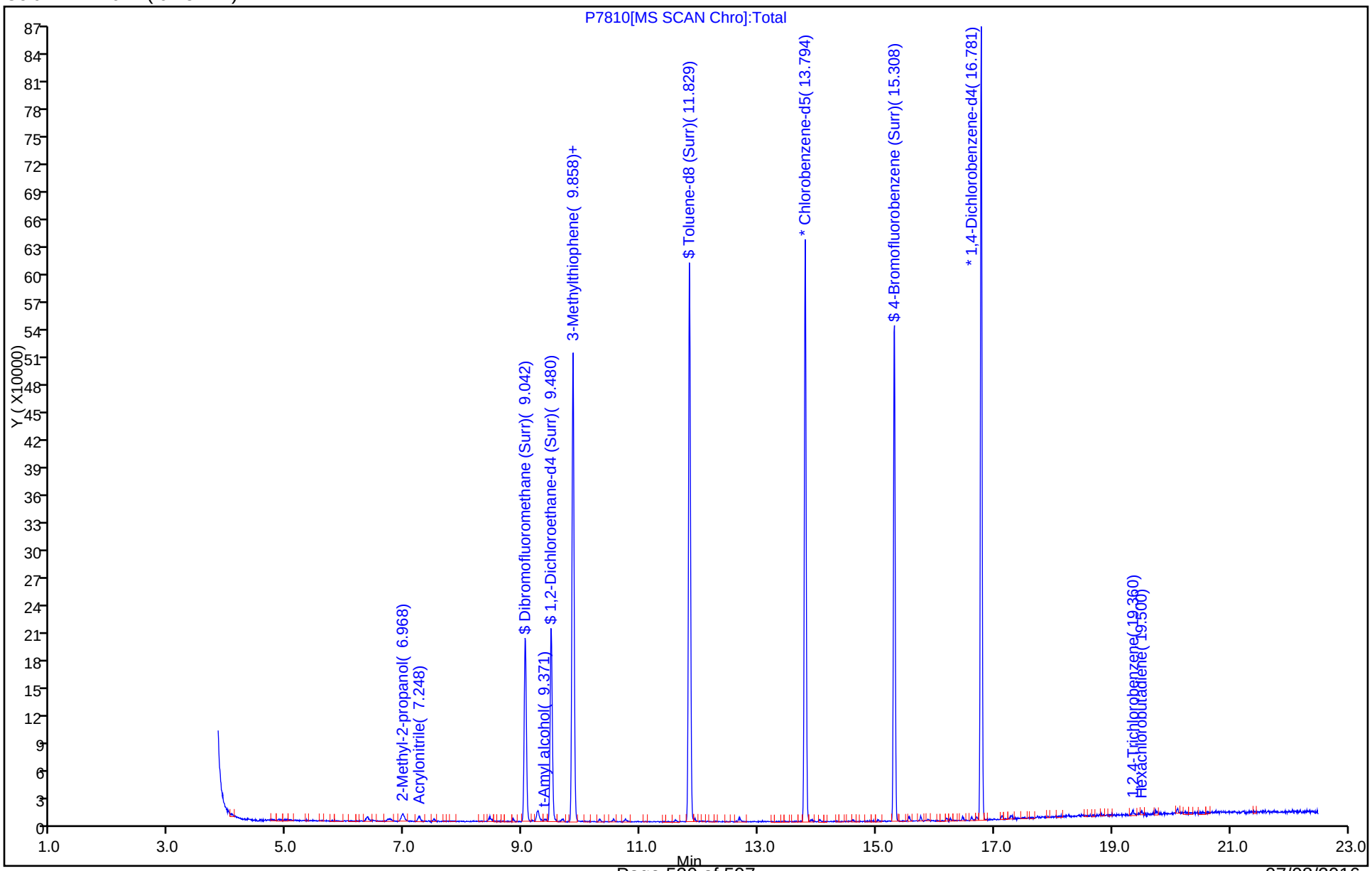
Report Date: 07-Jul-2016 08:00:02 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7810.D

Injection Date:	05-Jul-2016 23:40:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-309873/6

Matrix: Water | Lab File ID: P7839.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 12:29

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.: 309873 | 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.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-309873/6

Matrix: Water | Lab File ID: P7839.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 12:29

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	101		66-137
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7839.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Jul-2016 12:29:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0054607-006
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 22:23:56 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 22:24:09

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	9.858	9.851	0.007	98	110804	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	227320	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	280978	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.042	0.000	93	155543	25.0	24.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.486	9.480	0.006	0	99421	25.0	25.2	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	522903	25.0	24.0	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.302	0.006	93	198028	25.0	23.9	
10 Dichlorodifluoromethane	85		4.018					ND	
15 Chlorodifluoromethane	51		4.042					ND	
11 Chloromethane	50		4.316					ND	
17 Vinyl chloride	62		4.547					ND	
144 Butadiene	54		4.571					ND	
12 Bromomethane	94		5.094					ND	
13 Chloroethane	64		5.228					ND	
19 Dichlorofluoromethane	67		5.520					ND	
14 Trichlorofluoromethane	101		5.636					ND	
141 Ethanol	45		5.824					ND	
20 Ethyl ether	59		5.928					ND	
26 Propene oxide	58		6.080					ND	
22 Acrolein	56		6.177					ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269					ND	
25 1,1-Dichloroethene	96		6.311					ND	
24 Acetone	43		6.354					ND	
23 Isopropyl alcohol	45		6.463					ND	
18 Iodomethane	142		6.579					ND	
30 Methyl acetate	43	6.731	6.731	0.000	98	11280		1.08	
29 Acetonitrile	40		6.755					ND	
31 Methylene Chloride	84		6.938					ND	
33 2-Methyl-2-propanol	59	6.974	6.968	0.006	95	9668		6.38	
32 Methyl tert-butyl ether	73		7.193					ND	
34 Acrylonitrile	53	7.242	7.230	0.012	97	12932		2.57	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
35 trans-1,2-Dichloroethene	96		7.260					ND	
37 Isopropyl ether	45		7.704					ND	
38 Vinyl acetate	43		7.729					ND	
40 1,1-Dichloroethane	63		7.783					ND	
39 1,1-Dimethoxyethane	75		7.807					ND	
41 2-Chloro-1,3-butadiene	53		7.874					ND	
42 Tert-butyl ethyl ether	59		8.148					ND	
46 Ethyl acetate	43		8.422					ND	
44 2-Butanone (MEK)	43		8.428					ND	
43 cis-1,2-Dichloroethene	96		8.483					ND	
45 2,2-Dichloropropane	77		8.483					ND	
47 Propionitrile	54		8.556					ND	
48 Methacrylonitrile	41		8.726					ND	
50 Chlorobromomethane	128		8.799					ND	
51 Tetrahydrofuran	42		8.824					ND	
52 1,1,1-Trichloroethane	97		9.097					ND	
54 Cyclohexane	56		9.164					ND	
53 Isobutyl alcohol	43		9.250					ND	
56 1,1-Dichloropropene	75		9.268					ND	
55 Carbon tetrachloride	117		9.298					ND	
140 t-Amyl alcohol	59		9.377					ND	
146 Isooctane	57		9.511					ND	
58 Tert-amyl methyl ether	73		9.547					ND	
57 Benzene	78		9.554					ND	
60 1,2-Dichloroethane	62		9.578					ND	
66 2-Methylthiophene	97		9.687					ND	
67 3-Methylthiophene	97	9.851	9.894	-0.043	42	37114			NC
1 1,4-Difluorobenzene	114		9.918					ND	
61 n-Butanol	56		10.040					ND	
145 Ethyl acrylate	55		10.277					ND	
65 Methyl methacrylate	41		10.582					ND	
63 1,2-Dichloropropane	63		10.612					ND	
68 1,4-Dioxane	88		10.734					ND	
69 Dibromomethane	93		10.801					ND	
70 Dichlorobromomethane	83		10.941					ND	
71 2-Chloroethyl vinyl ether	63		11.202					ND	
72 2-Nitropropane	43		11.208					ND	
74 Epichlorohydrin	57		11.372					ND	
73 cis-1,3-Dichloropropene	75		11.476					ND	
75 4-Methyl-2-pentanone (MIBK	43	11.591	11.586	0.005	97	7483		0.6020	
76 Toluene	92		11.920					ND	
77 Ethyl methacrylate	69		12.145					ND	
78 trans-1,3-Dichloropropene	75		12.182					ND	
79 1,1,2-Trichloroethane	83		12.462					ND	
80 Tetrachloroethene	166		12.669					ND	
82 1,3-Dichloropropane	76		12.699					ND	
149 n-Butyl acetate	43		12.759					ND	
81 Chlorodibromomethane	129		13.046					ND	
85 Ethylene Dibromide	107		13.240					ND	
84 3-Chlorobenzotrifluoride	180		13.635					ND	
139 1-Chlorohexane	55		13.654					ND	
86 4-Chlorobenzotrifluoride	180		13.708					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
87 Chlorobenzene	112		13.837					ND	
88 1,1,1,2-Tetrachloroethane	131		13.916					ND	
90 m-Xylene & p-Xylene	106		14.037					ND	
91 2-Chlorobenzotrifluoride	180		14.889					ND	
92 Bromoform	173		14.962					ND	
95 Isopropylbenzene	105		15.029					ND	
96 Cyclohexanone	55		15.278					ND	
97 1,1,2,2-Tetrachloroethane	83		15.455					ND	
98 trans-1,4-Dichloro-2-buten	53		15.510					ND	
101 1,2,3-Trichloropropane	110		15.552					ND	
99 N-Propylbenzene	91		15.564					ND	
102 1,3,5-Trimethylbenzene	105		15.759					ND	
107 1,2,4-Trimethylbenzene	105		16.258					ND	
108 Pentachloroethane	167		16.306					ND	
109 sec-Butylbenzene	105		16.465					ND	
114 Dicyclopentadiene	66		16.835					ND	
143 Benzyl chloride	126		16.963					ND	
115 n-Butylbenzene	91	17.134	17.134	0.000	95	5298		0.1644	
117 1,2-Dibromo-3-Chloropropan	75		18.278					ND	
118 1,3,5-Trichlorobenzene	180		18.490					ND	
119 1,2,4-Trichlorobenzene	180	19.360	19.348	0.012	86	3570		0.2059	
120 Hexachlorobutadiene	225		19.500					ND	
121 Naphthalene	128		19.750					ND	
122 1,2,3-Trichlorobenzene	180		20.109					ND	
142 2-Methylnaphthalene	142		21.568					ND	
136 Propene oxide TIC	1		0.000					ND	
138 Ethylene oxide TIC	1		0.000					ND	
137 1-Bromopropane TIC	1		0.000					ND	
134 Halothane	1		0.000					ND	
135 Pentachloroethane TIC	1		0.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
S 123 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 1,3-Dichloropropene, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		5.300					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 128 Hexachloroethane TIC	201		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

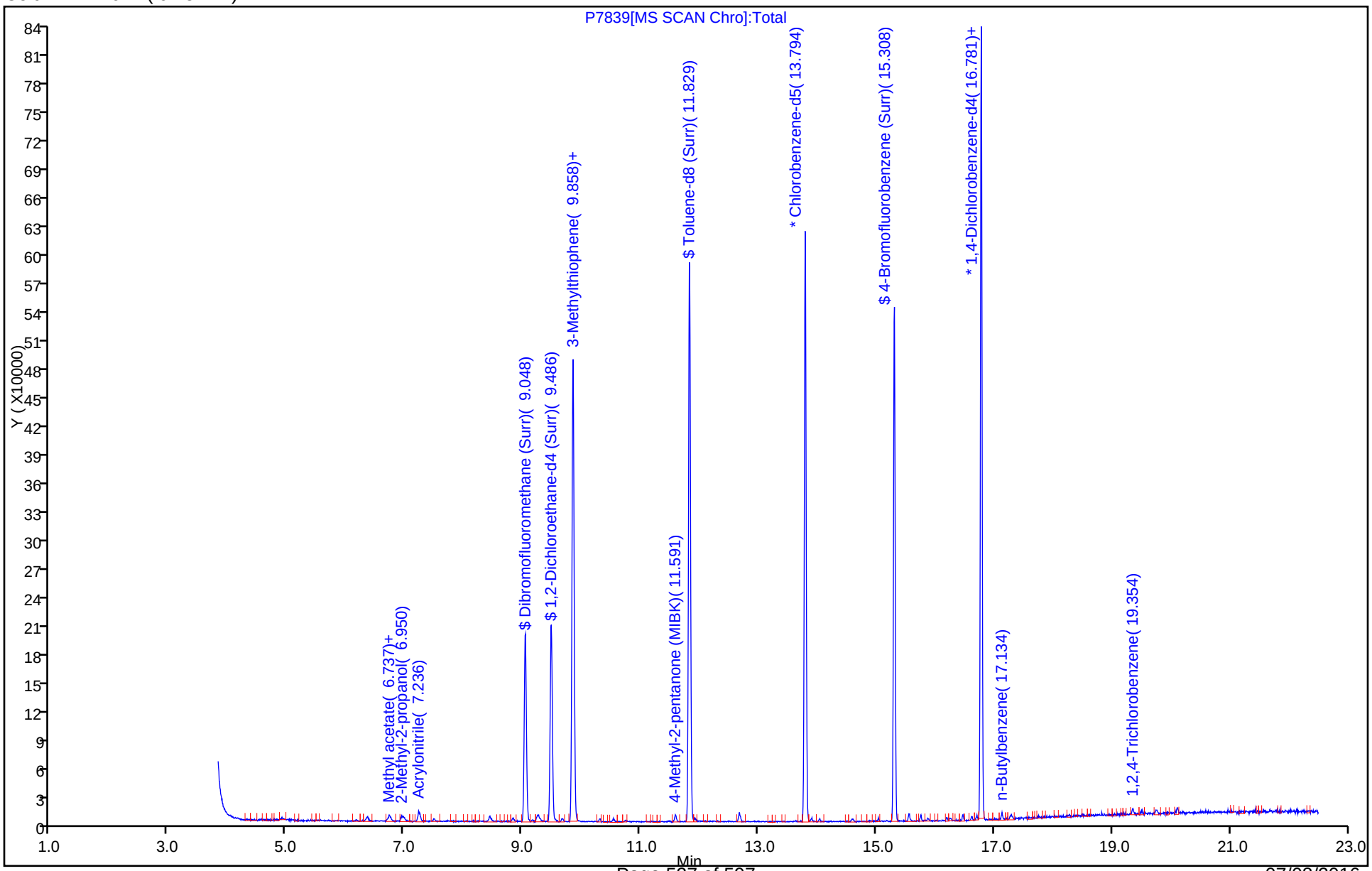
Report Date: 06-Jul-2016 22:24:10 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7839.D

Injection Date:	06-Jul-2016 12:29:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-309962/6

Matrix: Water | Lab File ID: P7862.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2016 00:25

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.: 309962 | 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.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-309962/6

Matrix: Water | Lab File ID: P7862.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2016 00:25

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.: 309962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.68
100-41-4	Ethylbenzene	1.0	U	1.0	0.74
98-82-8	Isopropylbenzene	1.0	U	1.0	0.79
79-20-9	Methyl acetate	2.5	U	2.5	1.3
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
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)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		60-140
2037-26-5	Toluene-d8 (Surr)	100		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7862.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-Jul-2016 00:25:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0054624-006
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 04:04:07 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:20:04

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	9.858	9.852	0.006	99	107160	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.800	13.794	0.006	86	212252	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	95	264368	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.049	-0.007	93	160582	25.0	26.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.493	-0.006	0	99524	25.0	26.1	
$ 5 Toluene-d8 (Surr)	98	11.835	11.835	0.000	94	510520	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	93	191610	25.0	24.8	
10 Dichlorodifluoromethane	85		4.018					ND	
15 Chlorodifluoromethane	51		4.042					ND	
11 Chloromethane	50		4.310					ND	
17 Vinyl chloride	62		4.541					ND	
144 Butadiene	54		4.565					ND	
12 Bromomethane	94		5.094					ND	
13 Chloroethane	64		5.222					ND	
19 Dichlorofluoromethane	67		5.514					ND	
14 Trichlorofluoromethane	101		5.630					ND	
141 Ethanol	45		5.812					ND	
20 Ethyl ether	59		5.928					ND	
26 Propene oxide	58		6.086					ND	
22 Acrolein	56		6.177					ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.269					ND	
25 1,1-Dichloroethene	96		6.311					ND	
18 Iodomethane	142		6.579					ND	
30 Methyl acetate	43		6.725					ND	
29 Acetonitrile	40		6.761					ND	
31 Methylene Chloride	84		6.932					ND	
33 2-Methyl-2-propanol	59	6.968	6.962	0.006	93	10567		7.21	
32 Methyl tert-butyl ether	73		7.187					ND	
34 Acrylonitrile	53	7.242	7.230	0.012	88	7282		1.50	
35 trans-1,2-Dichloroethene	96		7.260					ND	
37 Isopropyl ether	45		7.710					ND	

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		7.729					ND	
40 1,1-Dichloroethane	63		7.777					ND	
39 1,1-Dimethoxyethane	75		7.814					ND	
41 2-Chloro-1,3-butadiene	53		7.881					ND	
42 Tert-butyl ethyl ether	59		8.154					ND	
46 Ethyl acetate	43		8.428					ND	
44 2-Butanone (MEK)	43		8.428					ND	
45 2,2-Dichloropropane	77		8.477					ND	
43 cis-1,2-Dichloroethene	96		8.483					ND	
47 Propionitrile	54		8.562					ND	
48 Methacrylonitrile	41		8.732					ND	
50 Chlorobromomethane	128		8.793					ND	
51 Tetrahydrofuran	42		8.824					ND	
52 1,1,1-Trichloroethane	97		9.097					ND	
54 Cyclohexane	56		9.164					ND	
53 Isobutyl alcohol	43	9.243	9.243	0.000	84	8772		25.7	
56 1,1-Dichloropropene	75		9.274					ND	
55 Carbon tetrachloride	117		9.304					ND	
140 t-Amyl alcohol	59		9.383					ND	
146 Isooctane	57		9.511					ND	
57 Benzene	78		9.548					ND	
58 Tert-amyl methyl ether	73		9.554					ND	
60 1,2-Dichloroethane	62		9.572					ND	
59 n-Heptane	43		9.669					ND	
66 2-Methylthiophene	97		9.687					ND	
67 3-Methylthiophene	97	9.858	9.894	-0.036	42	36151		NC	
1 1,4-Difluorobenzene	114		9.931					ND	
61 n-Butanol	56		10.046					ND	
145 Ethyl acrylate	55		10.284					ND	
64 Methylcyclohexane	83		10.539					ND	
65 Methyl methacrylate	41		10.582					ND	
63 1,2-Dichloropropane	63		10.618					ND	
68 1,4-Dioxane	88		10.734					ND	
69 Dibromomethane	93		10.801					ND	
70 Dichlorobromomethane	83		10.941					ND	
71 2-Chloroethyl vinyl ether	63		11.202					ND	
72 2-Nitropropane	43		11.214					ND	
74 Epichlorohydrin	57		11.373					ND	
73 cis-1,3-Dichloropropene	75		11.476					ND	
75 4-Methyl-2-pentanone (MIBK	43		11.586					ND	
76 Toluene	92		11.920					ND	
77 Ethyl methacrylate	69		12.151					ND	
78 trans-1,3-Dichloropropene	75		12.176					ND	
79 1,1,2-Trichloroethane	83		12.462					ND	
80 Tetrachloroethene	166		12.668					ND	
82 1,3-Dichloropropane	76		12.699					ND	
149 n-Butyl acetate	43		12.760					ND	
81 Chlorodibromomethane	129		13.046					ND	
85 Ethylene Dibromide	107		13.240					ND	
84 3-Chlorobenzotrifluoride	180		13.636					ND	
139 1-Chlorohexane	55		13.660					ND	
86 4-Chlorobenzotrifluoride	180		13.709					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
87 Chlorobenzene	112		13.837					ND	
88 1,1,1,2-Tetrachloroethane	131		13.916					ND	
90 m-Xylene & p-Xylene	106		14.037					ND	
94 Styrene	104		14.609					ND	
91 2-Chlorobenzotrifluoride	180		14.889					ND	
92 Bromoform	173		14.962					ND	
95 Isopropylbenzene	105		15.029					ND	
96 Cyclohexanone	55		15.272					ND	
97 1,1,2,2-Tetrachloroethane	83		15.455					ND	
98 trans-1,4-Dichloro-2-buten	53		15.510					ND	
101 1,2,3-Trichloropropane	110		15.546					ND	
100 Bromobenzene	156		15.552					ND	
99 N-Propylbenzene	91		15.564					ND	
106 tert-Butylbenzene	134		16.197					ND	
107 1,2,4-Trimethylbenzene	105		16.258					ND	
108 Pentachloroethane	167		16.312					ND	
114 Dicyclopentadiene	66		16.836					ND	
143 Benzyl chloride	126		16.970					ND	
116 1,2-Dichlorobenzene	146		17.298					ND	
117 1,2-Dibromo-3-Chloropropan	75		18.271					ND	
118 1,3,5-Trichlorobenzene	180		18.490					ND	
119 1,2,4-Trichlorobenzene	180	19.354	19.348	0.006	83	3015		0.1848	
120 Hexachlorobutadiene	225		19.500					ND	
121 Naphthalene	128		19.750					ND	
122 1,2,3-Trichlorobenzene	180		20.109					ND	
142 2-Methylnaphthalene	142		21.569					ND	
138 Ethylene oxide TIC	1		0.000					ND	
136 Propene oxide TIC	1		0.000					ND	
137 1-Bromopropane TIC	1		0.000					ND	
135 Pentachloroethane TIC	1		0.000					ND	
134 Halothane	1		0.000					ND	
S 123 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		5.300					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 128 Hexachloroethane TIC	201		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

P 8260 IS_00152	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

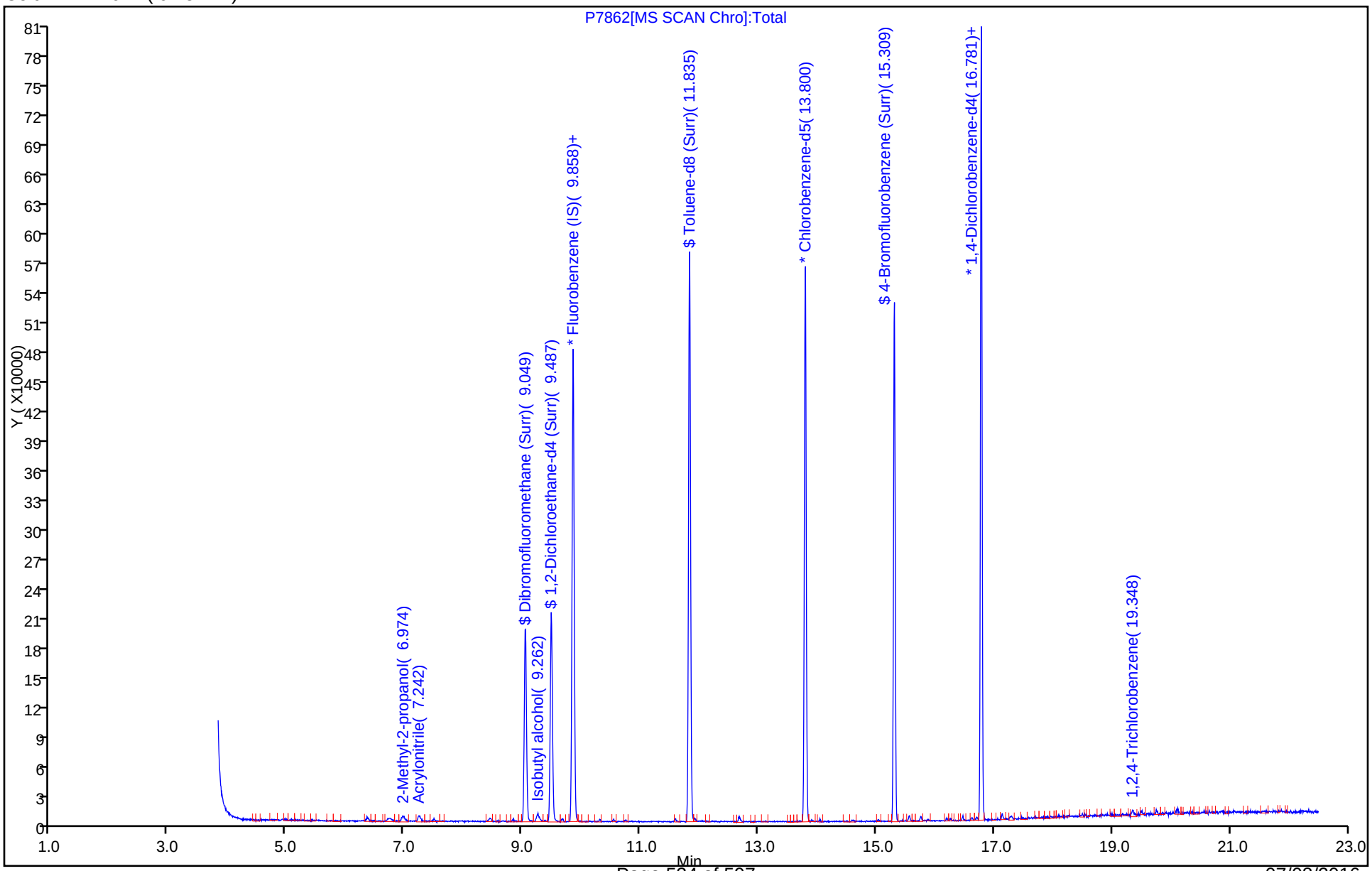
Report Date: 07-Jul-2016 08:20:05 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7862.D

Injection Date:	07-Jul-2016 00:25:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-309812/4

Matrix: Water | Lab File ID: P7808.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/05/2016 22:45

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.2		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	22.0		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.3		1.0	0.31
79-00-5	1,1,2-Trichloroethane	22.1		1.0	0.23
75-34-3	1,1-Dichloroethane	23.1		1.0	0.38
75-35-4	1,1-Dichloroethene	22.7		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.5		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	24.1		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	22.0		1.0	0.39
106-93-4	1,2-Dibromoethane	23.4		1.0	0.73
95-50-1	1,2-Dichlorobenzene	22.5		1.0	0.79
107-06-2	1,2-Dichloroethane	23.6		1.0	0.21
78-87-5	1,2-Dichloropropane	23.2		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	23.9		1.0	0.77
541-73-1	1,3-Dichlorobenzene	22.5		1.0	0.78
106-46-7	1,4-Dichlorobenzene	22.0		1.0	0.84
78-93-3	2-Butanone (MEK)	116		10	1.3
591-78-6	2-Hexanone	111		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	109		5.0	2.1
67-64-1	Acetone	127		10	3.0
71-43-2	Benzene	22.3		1.0	0.41
75-27-4	Bromodichloromethane	25.6		1.0	0.39
75-25-2	Bromoform	24.7		1.0	0.26
74-83-9	Bromomethane	28.2		1.0	0.69
75-15-0	Carbon disulfide	23.0		1.0	0.19
56-23-5	Carbon tetrachloride	25.3		1.0	0.27
108-90-7	Chlorobenzene	22.2		1.0	0.75
75-00-3	Chloroethane	22.1		1.0	0.32
67-66-3	Chloroform	23.9		1.0	0.34
74-87-3	Chloromethane	20.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.4		1.0	0.36
110-82-7	Cyclohexane	21.4		1.0	0.18
124-48-1	Dibromochloromethane	25.3		1.0	0.32
75-71-8	Dichlorodifluoromethane	21.4		1.0	0.68

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-309812/4

Matrix: Water | Lab File ID: P7808.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/05/2016 22:45

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	22.5		1.0	0.74
98-82-8	Isopropylbenzene	23.5		1.0	0.79
79-20-9	Methyl acetate	102		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.2		1.0	0.16
108-87-2	Methylcyclohexane	22.1		1.0	0.16
75-09-2	Methylene Chloride	24.4		1.0	0.44
100-42-5	Styrene	24.6		1.0	0.73
127-18-4	Tetrachloroethene	21.8		1.0	0.36
108-88-3	Toluene	23.7		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.4		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.6		1.0	0.37
79-01-6	Trichloroethene	23.5		1.0	0.46
75-69-4	Trichlorofluoromethane	24.5		1.0	0.88
75-01-4	Vinyl chloride	21.5		1.0	0.90
1330-20-7	Xylenes, Total	46.3		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		66-137
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		60-140
2037-26-5	Toluene-d8 (Surr)	93		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7808.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 05-Jul-2016 22:45:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcs
Misc. Info.: 480-0054594-004
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 00:11:06 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK050

First Level Reviewer: youngmans Date: 05-Jul-2016 23:16:32

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	9.858	9.852	0.006	99	116927	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	85	250727	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	298389	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.043	0.006	94	167170	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	105179	25.0	25.2	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	560701	25.0	23.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.303	15.309	-0.006	94	223230	25.0	24.5	
10 Dichlorodifluoromethane	85	4.018	4.017	0.001	99	225644	25.0	21.4	
11 Chloromethane	50	4.328	4.322	0.006	99	164592	25.0	20.8	
17 Vinyl chloride	62	4.553	4.553	0.000	98	143103	25.0	21.5	
144 Butadiene	54	4.571	4.565	0.006	93	139896	25.0	23.6	
12 Bromomethane	94	5.107	5.094	0.013	93	137388	25.0	28.2	
13 Chloroethane	64	5.228	5.228	0.000	98	111962	25.0	22.1	
19 Dichlorofluoromethane	67	5.526	5.514	0.012	97	364982	25.0	24.8	
14 Trichlorofluoromethane	101	5.642	5.636	0.006	98	366871	25.0	24.5	
20 Ethyl ether	59	5.928	5.922	0.006	96	187126	25.0	22.9	
22 Acrolein	56	6.183	6.171	0.012	99	212566	125.0	90.4	
16 1,1,2-Trichloro-1,2,2-trif	101	6.275	6.274	0.001	91	194392	25.0	22.3	
25 1,1-Dichloroethene	96	6.317	6.311	0.006	94	175724	25.0	22.7	
24 Acetone	43	6.360	6.354	0.006	98	507494	125.0	126.5	
18 Iodomethane	142	6.585	6.579	0.006	99	357261	25.0	24.1	
27 Carbon disulfide	76	6.701	6.694	0.007	100	577417	25.0	23.0	
30 Methyl acetate	43	6.737	6.731	0.006	99	1121031	125.0	101.7	
28 3-Chloro-1-propene	41	6.767	6.761	0.006	86	368159	25.0	25.8	
31 Methylene Chloride	84	6.944	6.938	0.006	97	188456	25.0	24.4	
33 2-Methyl-2-propanol	59	6.968	6.968	0.000	98	417147	250.0	260.9	
32 Methyl tert-butyl ether	73	7.199	7.193	0.006	97	644750	25.0	24.2	
34 Acrylonitrile	53	7.236	7.230	0.006	99	1109407	250.0	209.0	
35 trans-1,2-Dichloroethene	96	7.266	7.254	0.012	95	193507	25.0	23.4	
36 Hexane	57	7.497	7.491	0.006	93	258282	25.0	20.5	
38 Vinyl acetate	43	7.735	7.728	0.007	97	991930	50.0	48.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
40 1,1-Dichloroethane	63	7.790	7.783	0.007	97	365579	25.0	23.1	
44 2-Butanone (MEK)	43	8.434	8.428	0.006	99	774193	125.0	116.2	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	84	218614	25.0	23.6	
45 2,2-Dichloropropane	77	8.489	8.483	0.006	58	294789	25.0	24.2	
50 Chlorobromomethane	128	8.805	8.799	0.006	98	110235	25.0	23.0	
51 Tetrahydrofuran	42	8.830	8.830	0.000	87	185730	50.0	44.4	
49 Chloroform	83	8.842	8.836	0.006	95	350047	25.0	23.9	
52 1,1,1-Trichloroethane	97	9.104	9.097	0.007	98	331924	25.0	24.2	
54 Cyclohexane	56	9.170	9.164	0.006	93	338901	25.0	21.4	
53 Isobutyl alcohol	43	9.250	9.243	0.007	96	374748	625.0	706.5	
56 1,1-Dichloropropene	75	9.274	9.274	0.000	93	255611	25.0	23.1	
55 Carbon tetrachloride	117	9.304	9.298	0.006	96	301400	25.0	25.3	
57 Benzene	78	9.560	9.547	0.013	98	708907	25.0	22.3	
60 1,2-Dichloroethane	62	9.578	9.572	0.006	98	331413	25.0	23.6	
59 n-Heptane	43	9.675	9.669	0.006	93	241360	25.0	22.7	
62 Trichloroethene	95	10.308	10.302	0.006	94	203551	25.0	23.5	
64 Methylcyclohexane	83	10.545	10.539	0.006	94	288453	25.0	22.1	
63 1,2-Dichloropropane	63	10.618	10.612	0.006	93	190657	25.0	23.2	
68 1,4-Dioxane	88	10.734	10.734	0.000	98	48000	500.0	506.6	
69 Dibromomethane	93	10.807	10.801	0.006	93	144071	25.0	23.9	
70 Dichlorobromomethane	83	10.947	10.941	0.006	98	257856	25.0	25.6	
71 2-Chloroethyl vinyl ether	63	11.208	11.202	0.006	94	142223	25.0	24.2	
73 cis-1,3-Dichloropropene	75	11.482	11.476	0.006	93	309206	25.0	25.4	
75 4-Methyl-2-pentanone (MIBK	43	11.592	11.585	0.007	98	1501167	125.0	109.5	
76 Toluene	92	11.920	11.920	0.000	98	473342	25.0	23.7	
77 Ethyl methacrylate	69	12.151	12.145	0.006	92	253494	25.0	24.6	
78 trans-1,3-Dichloropropene	75	12.182	12.176	0.006	96	299813	25.0	24.6	
79 1,1,2-Trichloroethane	83	12.462	12.461	0.001	93	147218	25.0	22.1	
80 Tetrachloroethene	166	12.669	12.668	0.001	96	220499	25.0	21.8	
83 2-Hexanone	43	12.675	12.674	0.001	98	1060143	125.0	110.7	
82 1,3-Dichloropropane	76	12.705	12.699	0.006	96	299009	25.0	22.4	
81 Chlorodibromomethane	129	13.052	13.045	0.007	90	213649	25.0	25.3	
85 Ethylene Dibromide	107	13.246	13.240	0.006	98	199483	25.0	23.4	
87 Chlorobenzene	112	13.837	13.836	0.001	95	583405	25.0	22.2	
89 Ethylbenzene	91	13.904	13.897	0.007	99	906126	25.0	22.5	
88 1,1,1,2-Tetrachloroethane	131	13.916	13.915	0.001	93	216285	25.0	24.9	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	345581	25.0	23.2	
93 o-Xylene	106	14.591	14.591	0.000	98	349486	25.0	23.1	
94 Styrene	104	14.609	14.609	0.000	94	555127	25.0	24.6	
92 Bromoform	173	14.962	14.962	0.000	96	164088	25.0	24.7	
95 Isopropylbenzene	105	15.035	15.035	0.000	96	907790	25.0	23.5	
97 1,1,2,2-Tetrachloroethane	83	15.461	15.455	0.006	97	277699	25.0	22.0	
98 trans-1,4-Dichloro-2-buten	53	15.510	15.509	0.001	85	95747	25.0	19.1	
101 1,2,3-Trichloropropane	110	15.552	15.546	0.006	78	88947	25.0	23.8	
100 Bromobenzene	156	15.552	15.552	0.000	93	277550	25.0	23.7	
99 N-Propylbenzene	91	15.564	15.558	0.006	98	1086142	25.0	22.7	
103 2-Chlorotoluene	126	15.753	15.753	0.000	95	229105	25.0	22.9	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	785784	25.0	23.9	
105 4-Chlorotoluene	126	15.881	15.880	0.001	98	235282	25.0	22.8	
106 tert-Butylbenzene	134	16.197	16.197	0.000	92	178709	25.0	23.5	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	825443	25.0	24.1	
109 sec-Butylbenzene	105	16.465	16.464	0.001	95	980543	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
112 4-Isopropyltoluene	119	16.623	16.617	0.006	96	895392	25.0	24.0	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	98	488954	25.0	22.5	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	485065	25.0	22.0	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	783618	25.0	22.9	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	498813	25.0	22.5	
117 1,2-Dibromo-3-Chloropropan	75	18.278	18.277	0.001	86	70044	25.0	22.0	
119 1,2,4-Trichlorobenzene	180	19.354	19.354	0.000	94	432777	25.0	23.5	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	95	183947	25.0	21.6	
121 Naphthalene	128	19.750	19.750	0.000	97	1181670	25.0	24.1	
122 1,2,3-Trichlorobenzene	180	20.109	20.109	0.000	95	425268	25.0	23.8	

Reagents:

8260 CORP mix_00077	Amount Added: 12.50	Units: uL	
GAS CORP mix_00163	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

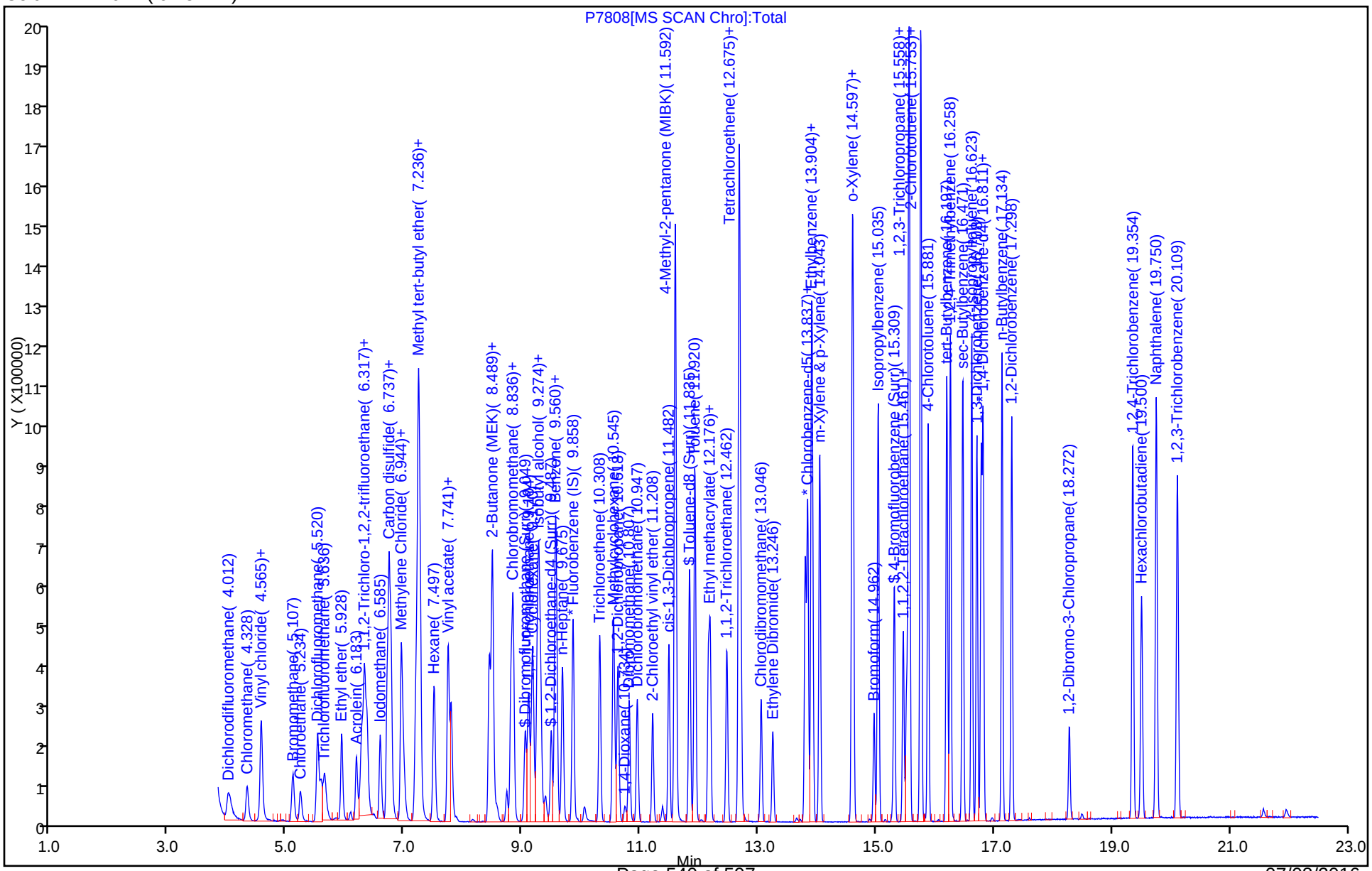
Report Date: 06-Jul-2016 00:11:43 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7808.D

Injection Date:	05-Jul-2016 22:45:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-309873/4

Matrix: Water | Lab File ID: P7837.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 11:35

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.5		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	22.6		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26.5		1.0	0.31
79-00-5	1,1,2-Trichloroethane	23.0		1.0	0.23
75-34-3	1,1-Dichloroethane	24.4		1.0	0.38
75-35-4	1,1-Dichloroethene	25.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.1		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	24.9		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	23.7		1.0	0.39
106-93-4	1,2-Dibromoethane	24.3		1.0	0.73
95-50-1	1,2-Dichlorobenzene	23.2		1.0	0.79
107-06-2	1,2-Dichloroethane	25.2		1.0	0.21
78-87-5	1,2-Dichloropropane	24.4		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.5		1.0	0.77
541-73-1	1,3-Dichlorobenzene	23.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	22.9		1.0	0.84
78-93-3	2-Butanone (MEK)	132		10	1.3
591-78-6	2-Hexanone	122		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	118		5.0	2.1
67-64-1	Acetone	150		10	3.0
71-43-2	Benzene	23.4		1.0	0.41
75-27-4	Bromodichloromethane	26.5		1.0	0.39
75-25-2	Bromoform	24.4		1.0	0.26
74-83-9	Bromomethane	27.2		1.0	0.69
75-15-0	Carbon disulfide	25.2		1.0	0.19
56-23-5	Carbon tetrachloride	28.8		1.0	0.27
108-90-7	Chlorobenzene	22.8		1.0	0.75
75-00-3	Chloroethane	22.4		1.0	0.32
67-66-3	Chloroform	25.2		1.0	0.34
74-87-3	Chloromethane	21.2		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.0		1.0	0.36
110-82-7	Cyclohexane	25.1		1.0	0.18
124-48-1	Dibromochloromethane	25.5		1.0	0.32
75-71-8	Dichlorodifluoromethane	21.3		1.0	0.68

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-309873/4

Matrix: Water | Lab File ID: P7837.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 11:35

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	24.0		1.0	0.74
98-82-8	Isopropylbenzene	24.4		1.0	0.79
79-20-9	Methyl acetate	113		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.9		1.0	0.16
108-87-2	Methylcyclohexane	25.4		1.0	0.16
75-09-2	Methylene Chloride	26.4		1.0	0.44
100-42-5	Styrene	25.5		1.0	0.73
127-18-4	Tetrachloroethene	24.1		1.0	0.36
108-88-3	Toluene	25.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.7		1.0	0.37
79-01-6	Trichloroethene	25.0		1.0	0.46
75-69-4	Trichlorofluoromethane	26.7		1.0	0.88
75-01-4	Vinyl chloride	22.0		1.0	0.90
1330-20-7	Xylenes, Total	48.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		60-140
2037-26-5	Toluene-d8 (Surr)	95		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7837.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Jul-2016 11:35:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0054607-004
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 17:58:31 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: cwiklinc Date: 06-Jul-2016 12:43:57

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	9.852	9.851	0.001	99	110308	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	85	238401	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	290482	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.042	0.001	93	163179	25.0	25.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.481	9.480	0.001	0	100782	25.0	25.6	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	93	541147	25.0	23.7	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.007	94	219300	25.0	25.3	
10 Dichlorodifluoromethane	85	4.012	4.018	-0.006	99	211912	25.0	21.3	
11 Chloromethane	50	4.322	4.316	0.006	99	158016	25.0	21.2	
17 Vinyl chloride	62	4.553	4.547	0.006	98	137789	25.0	22.0	
144 Butadiene	54	4.565	4.571	-0.006	94	143767	25.0	25.8	
12 Bromomethane	94	5.101	5.094	0.007	93	125128	25.0	27.2	
13 Chloroethane	64	5.228	5.228	0.000	97	107145	25.0	22.4	
19 Dichlorofluoromethane	67	5.520	5.520	0.000	97	337432	25.0	24.3	
14 Trichlorofluoromethane	101	5.624	5.636	-0.012	98	377492	25.0	26.7	
20 Ethyl ether	59	5.928	5.928	0.000	96	179761	25.0	23.3	
22 Acrolein	56	6.177	6.177	0.000	99	232390	125.0	104.7	
16 1,1,2-Trichloro-1,2,2-trif	101	6.269	6.269	0.000	90	217856	25.0	26.5	
25 1,1-Dichloroethene	96	6.317	6.311	0.006	95	186957	25.0	25.6	
24 Acetone	43	6.354	6.354	0.000	98	567417	125.0	150.0	
18 Iodomethane	142	6.585	6.579	0.006	99	353393	25.0	25.2	
27 Carbon disulfide	76	6.701	6.694	0.007	100	596346	25.0	25.2	
30 Methyl acetate	43	6.731	6.731	0.000	99	1174853	125.0	113.0	
28 3-Chloro-1-propene	41	6.761	6.761	0.000	80	336334	25.0	25.0	
31 Methylene Chloride	84	6.938	6.938	0.000	98	192364	25.0	26.4	
33 2-Methyl-2-propanol	59	6.968	6.968	0.000	98	456942	250.0	302.9	
32 Methyl tert-butyl ether	73	7.199	7.193	0.006	98	625446	25.0	24.9	
34 Acrylonitrile	53	7.230	7.230	0.000	98	1134964	250.0	226.7	
35 trans-1,2-Dichloroethene	96	7.260	7.260	0.000	94	192051	25.0	24.6	
36 Hexane	57	7.498	7.491	0.007	94	285146	25.0	24.0	
38 Vinyl acetate	43	7.735	7.729	0.006	97	1004944	50.0	52.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
40 1,1-Dichloroethane	63	7.783	7.783	0.000	97	363489	25.0	24.4	
44 2-Butanone (MEK)	43	8.434	8.428	0.006	99	831045	125.0	132.2	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	84	212817	25.0	24.4	
45 2,2-Dichloropropane	77	8.483	8.483	0.000	61	314133	25.0	27.4	
50 Chlorobromomethane	128	8.805	8.799	0.006	97	108718	25.0	24.1	
51 Tetrahydrofuran	42	8.830	8.824	0.006	91	197297	50.0	50.0	
49 Chloroform	83	8.836	8.836	0.000	95	347968	25.0	25.2	
52 1,1,1-Trichloroethane	97	9.098	9.097	0.001	98	342827	25.0	26.5	
54 Cyclohexane	56	9.171	9.164	0.006	94	374652	25.0	25.1	M
53 Isobutyl alcohol	43	9.244	9.250	-0.006	94	412050	625.0	822.1	
56 1,1-Dichloropropene	75	9.274	9.268	0.006	94	265281	25.0	25.4	
55 Carbon tetrachloride	117	9.304	9.298	0.006	95	324270	25.0	28.8	
57 Benzene	78	9.554	9.554	0.000	98	702200	25.0	23.4	
60 1,2-Dichloroethane	62	9.578	9.578	0.000	97	332818	25.0	25.2	
59 n-Heptane	43	9.669	9.669	0.000	94	271500	25.0	27.2	
62 Trichloroethene	95	10.308	10.302	0.006	94	204661	25.0	25.0	
64 Methylcyclohexane	83	10.545	10.539	0.006	94	314046	25.0	25.4	
63 1,2-Dichloropropane	63	10.618	10.612	0.006	92	189338	25.0	24.4	
68 1,4-Dioxane	88	10.740	10.734	0.006	99	55927	500.0	620.8	
69 Dibromomethane	93	10.807	10.801	0.006	92	141418	25.0	24.9	
70 Dichlorobromomethane	83	10.947	10.941	0.006	98	251729	25.0	26.5	
71 2-Chloroethyl vinyl ether	63	11.202	11.202	0.000	93	143051	25.0	25.7	
73 cis-1,3-Dichloropropene	75	11.476	11.476	0.000	92	298303	25.0	26.0	
75 4-Methyl-2-pentanone (MIBK	43	11.586	11.586	0.000	98	1537049	125.0	117.9	
76 Toluene	92	11.920	11.920	0.000	98	478644	25.0	25.2	
77 Ethyl methacrylate	69	12.145	12.145	0.000	90	250333	25.0	25.5	
78 trans-1,3-Dichloropropene	75	12.182	12.182	0.000	97	286650	25.0	24.7	
79 1,1,2-Trichloroethane	83	12.468	12.462	0.006	93	145722	25.0	23.0	
80 Tetrachloroethene	166	12.669	12.669	0.001	96	231631	25.0	24.1	
83 2-Hexanone	43	12.675	12.675	0.000	98	1110531	125.0	122.0	
82 1,3-Dichloropropane	76	12.699	12.699	0.000	96	296933	25.0	23.4	
81 Chlorodibromomethane	129	13.046	13.046	0.000	91	204200	25.0	25.5	
85 Ethylene Dibromide	107	13.247	13.240	0.006	99	197174	25.0	24.3	
87 Chlorobenzene	112	13.837	13.837	0.000	95	570880	25.0	22.8	
89 Ethylbenzene	91	13.897	13.897	0.000	99	917798	25.0	24.0	
88 1,1,1,2-Tetrachloroethane	131	13.916	13.916	0.000	93	217381	25.0	26.3	
90 m-Xylene & p-Xylene	106	14.043	14.037	0.006	0	345584	25.0	24.4	
93 o-Xylene	106	14.591	14.591	0.000	98	352708	25.0	24.5	
94 Styrene	104	14.609	14.609	0.000	95	546818	25.0	25.5	
92 Bromoform	173	14.962	14.962	0.000	97	154487	25.0	24.4	
95 Isopropylbenzene	105	15.035	15.029	0.006	96	918886	25.0	24.4	
97 1,1,2,2-Tetrachloroethane	83	15.461	15.455	0.006	98	277181	25.0	22.6	
98 trans-1,4-Dichloro-2-buten	53	15.510	15.510	0.000	84	92590	25.0	18.9	
101 1,2,3-Trichloropropane	110	15.546	15.552	-0.006	62	91409	25.0	25.1	
100 Bromobenzene	156	15.552	15.552	0.000	92	273157	25.0	23.9	
99 N-Propylbenzene	91	15.564	15.564	0.000	98	1108717	25.0	23.8	
103 2-Chlorotoluene	126	15.753	15.747	0.006	95	230583	25.0	23.7	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	94	782089	25.0	24.5	
105 4-Chlorotoluene	126	15.881	15.881	0.000	98	240573	25.0	23.9	
106 tert-Butylbenzene	134	16.197	16.197	0.000	93	182379	25.0	24.7	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	829075	25.0	24.9	
109 sec-Butylbenzene	105	16.471	16.465	0.006	95	1010528	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
112 4-Isopropyltoluene	119	16.617	16.617	0.000	96	916111	25.0	25.2	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	98	490505	25.0	23.2	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	492207	25.0	22.9	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	818827	25.0	24.6	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	500447	25.0	23.2	
117 1,2-Dibromo-3-Chloropropan	75	18.272	18.278	-0.006	88	73339	25.0	23.7	
119 1,2,4-Trichlorobenzene	180	19.354	19.348	0.006	94	431097	25.0	24.1	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	95	198331	25.0	24.0	
121 Naphthalene	128	19.750	19.750	0.000	97	1188531	25.0	24.9	
122 1,2,3-Trichlorobenzene	180	20.109	20.109	0.000	96	427460	25.0	24.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00077	Amount Added:	12.50	Units: uL	
GAS CORP mix_00164	Amount Added:	12.50	Units: uL	
P 8260 IS_00151	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added:	1.25	Units: uL	Run Reagent

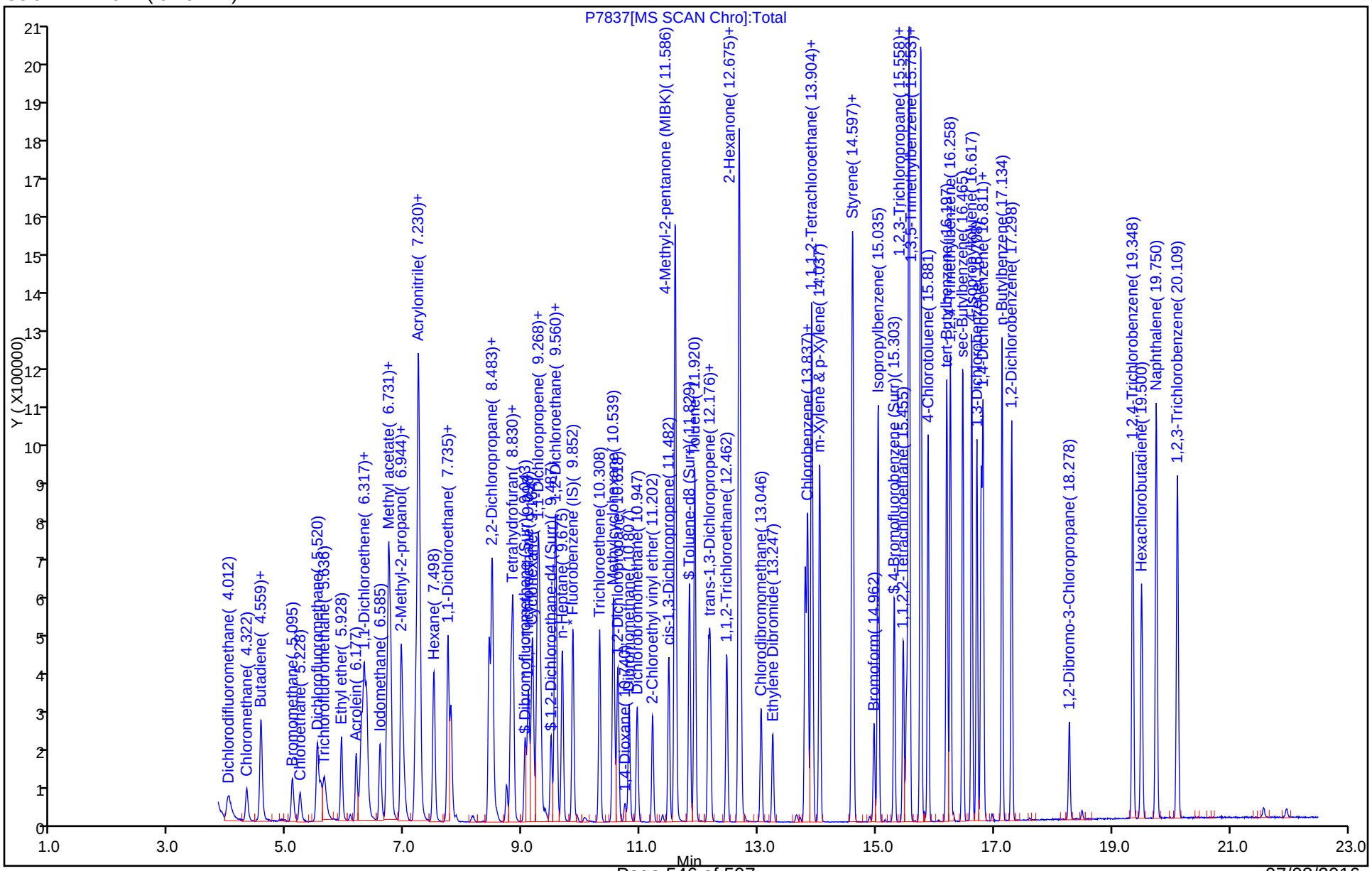
Report Date: 06-Jul-2016 17:59:39 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7837.D

Injection Date:	06-Jul-2016 11:35:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

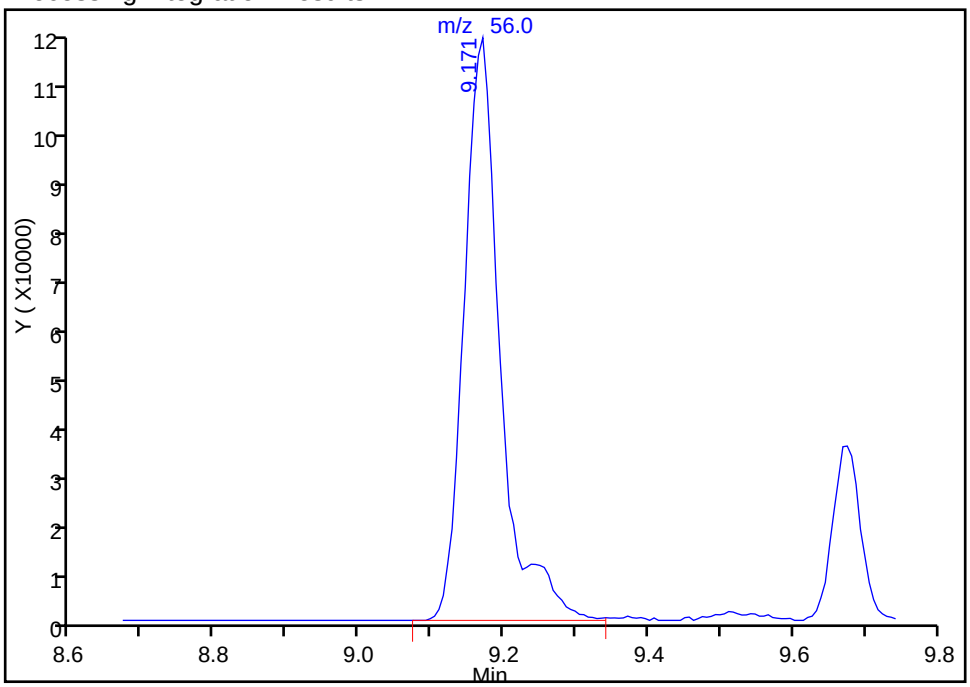
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7837.D
Injection Date: 06-Jul-2016 11:35:30 Instrument ID: HP5973P
Lims ID: LCS
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

54 Cyclohexane, CAS: 110-82-7

Signal: 1

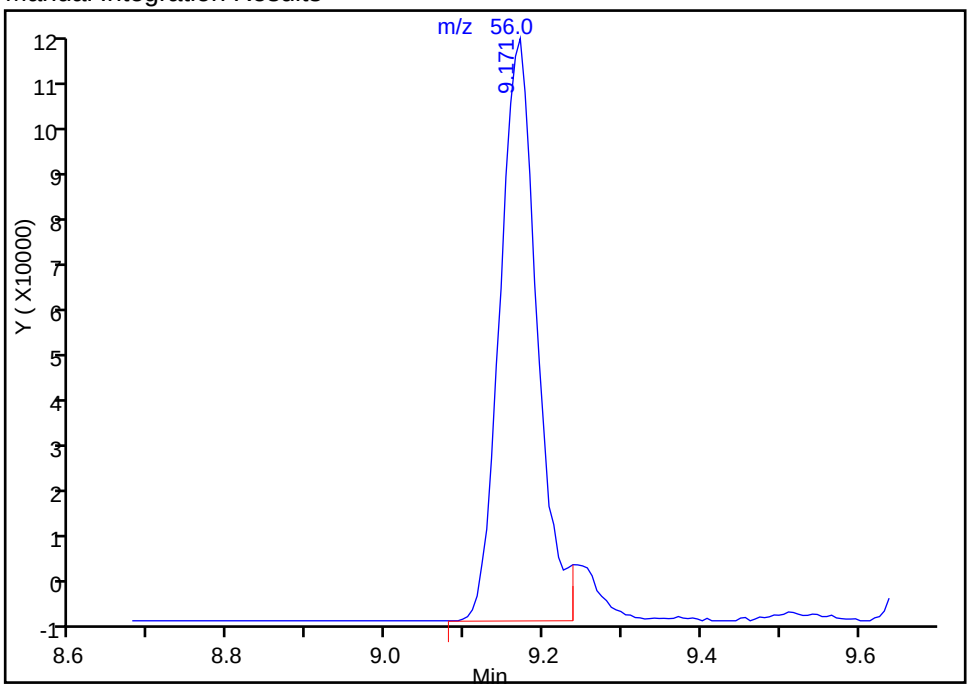
Processing Integration Results

RT: 9.17
Area: 398705
Amount: 26.685079
Amount Units: ug/L



Manual Integration Results

RT: 9.17
Area: 374652
Amount: 25.075227
Amount Units: ug/L



Reviewer: cwiklinc, 06-Jul-2016 12:43:57
Audit Action: Manually Integrated Audit Reason: Other

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-309962/4

Matrix: Water | Lab File ID: P7860.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 23:30

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.: 309962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.2		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	22.5		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.2		1.0	0.31
79-00-5	1,1,2-Trichloroethane	22.6		1.0	0.23
75-34-3	1,1-Dichloroethane	23.1		1.0	0.38
75-35-4	1,1-Dichloroethene	22.9		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.9		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	24.6		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	23.4		1.0	0.39
106-93-4	1,2-Dibromoethane	24.1		1.0	0.73
95-50-1	1,2-Dichlorobenzene	23.3		1.0	0.79
107-06-2	1,2-Dichloroethane	24.5		1.0	0.21
78-87-5	1,2-Dichloropropane	23.5		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.1		1.0	0.77
541-73-1	1,3-Dichlorobenzene	22.9		1.0	0.78
106-46-7	1,4-Dichlorobenzene	22.6		1.0	0.84
78-93-3	2-Butanone (MEK)	124		10	1.3
591-78-6	2-Hexanone	117		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	116		5.0	2.1
67-64-1	Acetone	138		10	3.0
71-43-2	Benzene	22.3		1.0	0.41
75-27-4	Bromodichloromethane	26.0		1.0	0.39
75-25-2	Bromoform	23.7		1.0	0.26
74-83-9	Bromomethane	28.2		1.0	0.69
75-15-0	Carbon disulfide	21.5		1.0	0.19
56-23-5	Carbon tetrachloride	25.9		1.0	0.27
108-90-7	Chlorobenzene	22.7		1.0	0.75
75-00-3	Chloroethane	22.2		1.0	0.32
67-66-3	Chloroform	24.0		1.0	0.34
74-87-3	Chloromethane	19.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	22.9		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	24.7		1.0	0.36
110-82-7	Cyclohexane	21.9		1.0	0.18
124-48-1	Dibromochloromethane	25.5		1.0	0.32
75-71-8	Dichlorodifluoromethane	21.0		1.0	0.68

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-309962/4

Matrix: Water | Lab File ID: P7860.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 23:30

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.: 309962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	23.5		1.0	0.74
98-82-8	Isopropylbenzene	23.8		1.0	0.79
79-20-9	Methyl acetate	104		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.8		1.0	0.16
108-87-2	Methylcyclohexane	21.9		1.0	0.16
75-09-2	Methylene Chloride	24.6		1.0	0.44
100-42-5	Styrene	25.4		1.0	0.73
127-18-4	Tetrachloroethene	22.7		1.0	0.36
108-88-3	Toluene	24.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.5		1.0	0.37
79-01-6	Trichloroethene	23.8		1.0	0.46
75-69-4	Trichlorofluoromethane	24.9		1.0	0.88
75-01-4	Vinyl chloride	21.3		1.0	0.90
1330-20-7	Xylenes, Total	48.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		66-137
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	98		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7860.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Jul-2016 23:30:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0054624-004
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:50:27 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK033

First Level Reviewer: youngmans Date: 06-Jul-2016 23:54:53

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	9.858	9.852	0.006	99	109778	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	85	229027	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	281223	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.049	-0.007	93	163724	25.0	26.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.486	9.493	-0.007	0	101349	25.0	25.9	
$ 5 Toluene-d8 (Surr)	98	11.829	11.835	-0.006	93	537359	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.308	15.309	-0.001	93	214723	25.0	25.8	
10 Dichlorodifluoromethane	85	4.017	4.018	-0.001	99	207998	25.0	21.0	
11 Chloromethane	50	4.328	4.310	0.018	98	144578	25.0	19.5	
17 Vinyl chloride	62	4.553	4.541	0.012	98	132978	25.0	21.3	
144 Butadiene	54	4.565	4.565	0.000	93	136904	25.0	24.6	
12 Bromomethane	94	5.106	5.094	0.012	93	129052	25.0	28.2	
13 Chloroethane	64	5.234	5.222	0.012	97	105769	25.0	22.2	
19 Dichlorofluoromethane	67	5.520	5.514	0.006	97	333223	25.0	24.1	
14 Trichlorofluoromethane	101	5.629	5.630	-0.001	98	349069	25.0	24.9	
20 Ethyl ether	59	5.934	5.928	0.006	97	174830	25.0	22.7	
22 Acrolein	56	6.183	6.177	0.006	99	195881	125.0	88.7	
16 1,1,2-Trichloro-1,2,2-trif	101	6.274	6.269	0.005	90	190449	25.0	23.2	
25 1,1-Dichloroethene	96	6.323	6.311	0.012	94	166185	25.0	22.9	
24 Acetone	43	6.366	6.354	0.012	98	519369	125.0	137.9	
18 Iodomethane	142	6.585	6.579	0.006	99	333478	25.0	23.9	
27 Carbon disulfide	76	6.700	6.694	0.006	100	506244	25.0	21.5	
30 Methyl acetate	43	6.731	6.725	0.006	99	1079198	125.0	104.3	
28 3-Chloro-1-propene	41	6.767	6.761	0.006	81	337684	25.0	25.2	
31 Methylene Chloride	84	6.944	6.932	0.012	97	178848	25.0	24.6	
33 2-Methyl-2-propanol	59	6.968	6.962	0.006	99	408104	250.0	271.9	
32 Methyl tert-butyl ether	73	7.199	7.187	0.012	98	596835	25.0	23.8	
34 Acrylonitrile	53	7.236	7.230	0.006	99	1058642	250.0	212.4	
35 trans-1,2-Dichloroethene	96	7.266	7.260	0.006	95	180707	25.0	23.3	
36 Hexane	57	7.497	7.491	0.006	94	244120	25.0	20.6	
38 Vinyl acetate	43	7.734	7.729	0.005	97	957833	50.0	49.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
40 1,1-Dichloroethane	63	7.789	7.777	0.012	97	342406	25.0	23.1	
44 2-Butanone (MEK)	43	8.434	8.428	0.006	99	774539	125.0	123.8	
45 2,2-Dichloropropane	77	8.483	8.477	0.006	61	286246	25.0	25.1	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	85	199097	25.0	22.9	
50 Chlorobromomethane	128	8.805	8.793	0.012	97	104124	25.0	23.2	
51 Tetrahydrofuran	42	8.836	8.824	0.012	89	181229	50.0	46.1	
49 Chloroform	83	8.842	8.836	0.006	95	330748	25.0	24.0	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	98	312082	25.0	24.2	
54 Cyclohexane	56	9.170	9.164	0.006	94	325613	25.0	21.9	
53 Isobutyl alcohol	43	9.255	9.243	0.012	95	350659	625.0	704.2	
56 1,1-Dichloropropene	75	9.274	9.274	0.000	93	240461	25.0	23.2	
55 Carbon tetrachloride	117	9.310	9.304	0.006	97	290411	25.0	25.9	
57 Benzene	78	9.559	9.548	0.011	98	663758	25.0	22.3	
60 1,2-Dichloroethane	62	9.578	9.572	0.006	97	321823	25.0	24.5	
59 n-Heptane	43	9.675	9.669	0.006	95	225060	25.0	22.5	
62 Trichloroethene	95	10.308	10.302	0.006	95	193319	25.0	23.8	
64 Methylcyclohexane	83	10.545	10.539	0.006	96	269381	25.0	21.9	
63 1,2-Dichloropropane	63	10.618	10.618	0.000	91	181263	25.0	23.5	
68 1,4-Dioxane	88	10.740	10.734	0.006	96	42260	500.0	488.3	
69 Dibromomethane	93	10.807	10.801	0.006	92	139652	25.0	24.7	
70 Dichlorobromomethane	83	10.947	10.941	0.006	98	246444	25.0	26.0	
71 2-Chloroethyl vinyl ether	63	11.208	11.202	0.006	92	132822	25.0	24.0	
73 cis-1,3-Dichloropropene	75	11.482	11.476	0.006	92	281792	25.0	24.7	
75 4-Methyl-2-pentanone (MIBK	43	11.591	11.586	0.005	98	1454902	125.0	116.2	
76 Toluene	92	11.926	11.920	0.006	98	448994	25.0	24.6	
77 Ethyl methacrylate	69	12.151	12.151	0.000	94	239690	25.0	25.4	
78 trans-1,3-Dichloropropene	75	12.181	12.176	0.005	94	273179	25.0	24.5	
79 1,1,2-Trichloroethane	83	12.461	12.462	-0.001	92	137864	25.0	22.6	
80 Tetrachloroethene	166	12.668	12.668	0.000	94	210332	25.0	22.7	
83 2-Hexanone	43	12.680	12.675	0.005	98	1025978	125.0	117.3	
82 1,3-Dichloropropane	76	12.699	12.699	0.000	98	285274	25.0	23.4	
81 Chlorodibromomethane	129	13.045	13.046	-0.001	89	196769	25.0	25.5	
85 Ethylene Dibromide	107	13.246	13.240	0.006	98	187972	25.0	24.1	
87 Chlorobenzene	112	13.836	13.837	-0.001	95	544525	25.0	22.7	
89 Ethylbenzene	91	13.903	13.897	0.006	99	864462	25.0	23.5	
88 1,1,1,2-Tetrachloroethane	131	13.915	13.916	-0.001	93	207770	25.0	26.2	
90 m-Xylene & p-Xylene	106	14.043	14.037	0.006	0	326322	25.0	24.0	
93 o-Xylene	106	14.591	14.591	0.000	97	338109	25.0	24.5	
94 Styrene	104	14.609	14.609	0.000	95	524265	25.0	25.4	
92 Bromoform	173	14.962	14.962	0.000	96	144283	25.0	23.7	
95 Isopropylbenzene	105	15.035	15.029	0.006	96	865432	25.0	23.8	
97 1,1,2,2-Tetrachloroethane	83	15.454	15.455	-0.001	98	267517	25.0	22.5	
98 trans-1,4-Dichloro-2-buten	53	15.509	15.510	-0.001	76	80107	25.0	16.9	
101 1,2,3-Trichloropropane	110	15.552	15.546	0.006	72	85962	25.0	24.4	
100 Bromobenzene	156	15.552	15.552	0.000	92	260808	25.0	23.6	
99 N-Propylbenzene	91	15.564	15.564	0.000	98	1038295	25.0	23.0	
103 2-Chlorotoluene	126	15.753	15.747	0.006	95	220989	25.0	23.4	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	743969	25.0	24.1	
105 4-Chlorotoluene	126	15.880	15.881	-0.001	98	226311	25.0	23.2	
106 tert-Butylbenzene	134	16.197	16.197	0.000	93	170699	25.0	23.9	
107 1,2,4-Trimethylbenzene	105	16.257	16.258	-0.001	97	792573	25.0	24.6	
109 sec-Butylbenzene	105	16.470	16.465	0.005	95	935799	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
112 4-Isopropyltoluene	119	16.623	16.617	0.005	97	856129	25.0	24.3	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	98	469662	25.0	22.9	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	470319	25.0	22.6	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	753190	25.0	23.4	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	486440	25.0	23.3	
117 1,2-Dibromo-3-Chloropropan	75	18.271	18.271	0.000	85	70237	25.0	23.4	
119 1,2,4-Trichlorobenzene	180	19.354	19.348	0.006	95	414774	25.0	23.9	
120 Hexachlorobutadiene	225	19.500	19.500	0.000	94	177939	25.0	22.2	
121 Naphthalene	128	19.749	19.750	-0.001	97	1136678	25.0	24.6	
122 1,2,3-Trichlorobenzene	180	20.108	20.109	-0.001	95	413817	25.0	24.5	

Reagents:

8260 CORP mix_00077	Amount Added: 12.50	Units: uL	
GAS CORP mix_00164	Amount Added: 12.50	Units: uL	
P 8260 IS_00152	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

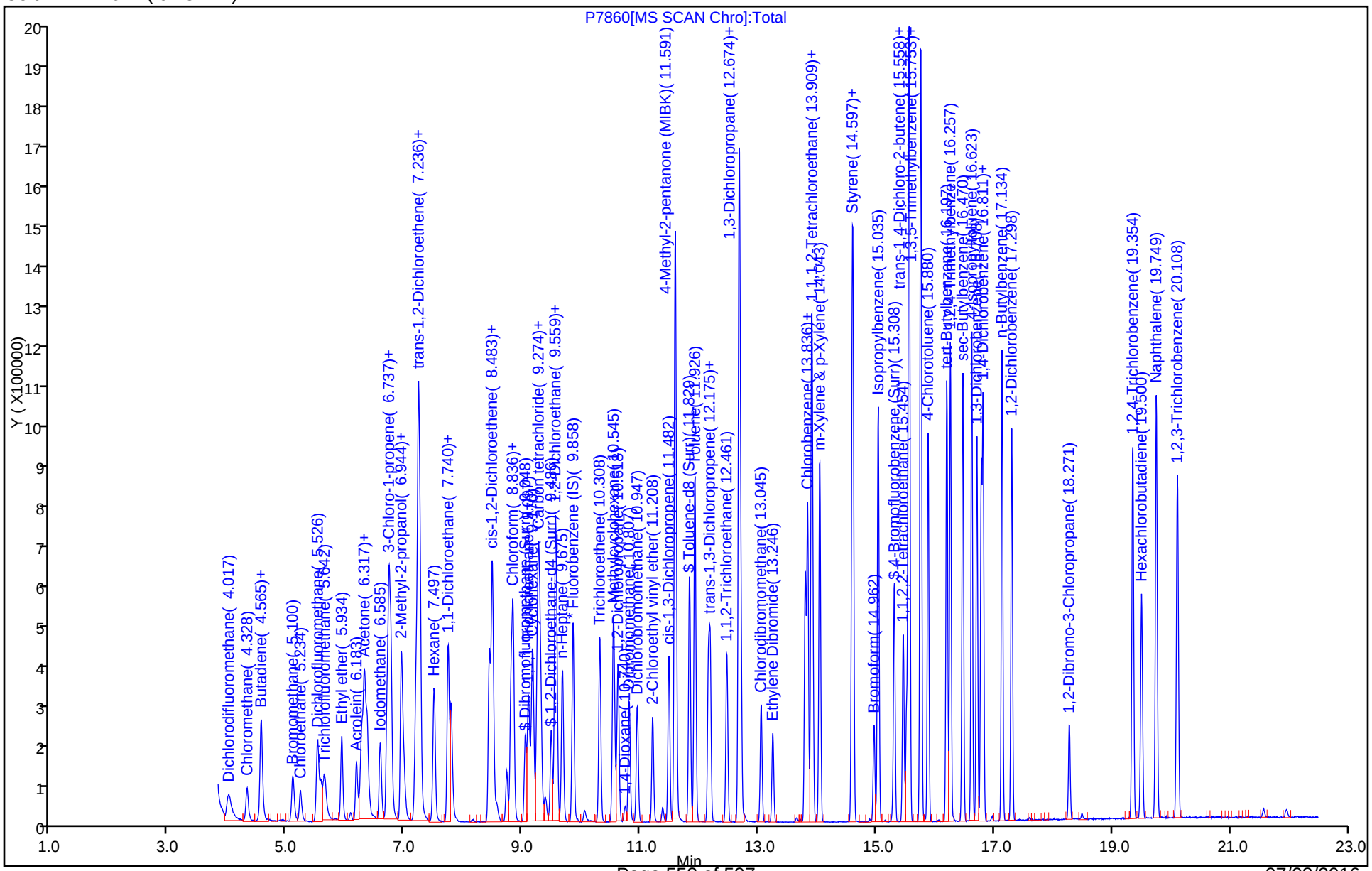
Report Date: 06-Jul-2016 23:54:53 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7860.D

Injection Date:	06-Jul-2016 23:30:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-309962/10

Matrix: Water | Lab File ID: P7871.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2016 04:49

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.: 309962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	20.6		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.6		1.0	0.31
79-00-5	1,1,2-Trichloroethane	22.5		1.0	0.23
75-34-3	1,1-Dichloroethane	23.4		1.0	0.38
75-35-4	1,1-Dichloroethene	23.4		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.0		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	24.6		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	18.8		1.0	0.39
106-93-4	1,2-Dibromoethane	22.8		1.0	0.73
95-50-1	1,2-Dichlorobenzene	22.9		1.0	0.79
107-06-2	1,2-Dichloroethane	23.8		1.0	0.21
78-87-5	1,2-Dichloropropane	23.1		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.2		1.0	0.77
541-73-1	1,3-Dichlorobenzene	22.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	22.4		1.0	0.84
78-93-3	2-Butanone (MEK)	91.9		10	1.3
591-78-6	2-Hexanone	98.9		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	101		5.0	2.1
67-64-1	Acetone	101		10	3.0
71-43-2	Benzene	22.3		1.0	0.41
75-27-4	Bromodichloromethane	25.2		1.0	0.39
75-25-2	Bromoform	20.4		1.0	0.26
74-83-9	Bromomethane	28.2		1.0	0.69
75-15-0	Carbon disulfide	22.3		1.0	0.19
56-23-5	Carbon tetrachloride	26.4		1.0	0.27
108-90-7	Chlorobenzene	23.1		1.0	0.75
75-00-3	Chloroethane	24.0		1.0	0.32
67-66-3	Chloroform	24.4		1.0	0.34
74-87-3	Chloromethane	19.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	22.0		1.0	0.36
110-82-7	Cyclohexane	22.2		1.0	0.18
124-48-1	Dibromochloromethane	24.8		1.0	0.32
75-71-8	Dichlorodifluoromethane	20.6		1.0	0.68

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-309962/10

Matrix: Water | Lab File ID: P7871.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2016 04:49

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.: 309962 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	23.8		1.0	0.74
98-82-8	Isopropylbenzene	23.5		1.0	0.79
79-20-9	Methyl acetate	87.2		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.1		1.0	0.16
108-87-2	Methylcyclohexane	21.6		1.0	0.16
75-09-2	Methylene Chloride	24.8		1.0	0.44
100-42-5	Styrene	25.4		1.0	0.73
127-18-4	Tetrachloroethene	22.8		1.0	0.36
108-88-3	Toluene	24.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	22.8		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	23.1		1.0	0.37
79-01-6	Trichloroethene	22.5		1.0	0.46
75-69-4	Trichlorofluoromethane	24.9		1.0	0.88
75-01-4	Vinyl chloride	20.2		1.0	0.90
1330-20-7	Xylenes, Total	48.7		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		66-137
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	99		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7871.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 07-Jul-2016 04:49:30 ALS Bottle#: 15 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 480-0054624-010
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 10:07:21 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 10:07:20

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	9.858	9.852	0.006	98	106718	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	85	214102	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	268114	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.043	9.049	-0.006	93	158610	25.0	25.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.493	-0.006	0	98285	25.0	25.8	
$ 5 Toluene-d8 (Surr)	98	11.835	11.835	0.000	94	508876	25.0	24.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	92	198451	25.0	25.5	
10 Dichlorodifluoromethane	85	4.011	4.018	-0.007	99	198499	25.0	20.6	
11 Chloromethane	50	4.316	4.310	0.006	99	143863	25.0	19.9	
17 Vinyl chloride	62	4.541	4.541	0.000	98	122508	25.0	20.2	
144 Butadiene	54	4.565	4.565	0.000	93	132485	25.0	24.5	
12 Bromomethane	94	5.100	5.094	0.006	94	125409	25.0	28.2	
13 Chloroethane	64	5.228	5.222	0.006	96	110736	25.0	24.0	
19 Dichlorofluoromethane	67	5.514	5.514	0.000	97	341773	25.0	25.4	
14 Trichlorofluoromethane	101	5.636	5.630	0.006	99	340557	25.0	24.9	
20 Ethyl ether	59	5.928	5.928	0.000	96	165603	25.0	22.2	
22 Acrolein	56	6.183	6.177	0.006	98	126782	125.0	59.1	
16 1,1,2-Trichloro-1,2,2-trif	101	6.274	6.269	0.005	90	187826	25.0	23.6	
25 1,1-Dichloroethene	96	6.317	6.311	0.006	94	165133	25.0	23.4	
24 Acetone	43	6.360	6.354	0.006	99	370808	125.0	101.3	
18 Iodomethane	142	6.585	6.579	0.006	99	314741	25.0	23.2	
27 Carbon disulfide	76	6.694	6.694	0.000	100	509894	25.0	22.3	
30 Methyl acetate	43	6.731	6.725	0.006	99	877151	125.0	87.2	
28 3-Chloro-1-propene	41	6.767	6.761	0.006	84	281507	25.0	21.6	
31 Methylene Chloride	84	6.944	6.932	0.012	97	175326	25.0	24.8	
33 2-Methyl-2-propanol	59	6.968	6.962	0.006	96	286133	250.0	196.1	
32 Methyl tert-butyl ether	73	7.193	7.187	0.006	99	562796	25.0	23.1	
34 Acrylonitrile	53	7.236	7.230	0.006	99	846303	250.0	174.7	
35 trans-1,2-Dichloroethene	96	7.266	7.260	0.006	94	171773	25.0	22.8	
36 Hexane	57	7.497	7.491	0.006	94	228388	25.0	19.8	
38 Vinyl acetate	43	7.735	7.729	0.006	97	802057	50.0	43.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
40 1,1-Dichloroethane	63	7.789	7.777	0.012	97	338463	25.0	23.4	
44 2-Butanone (MEK)	43	8.434	8.428	0.006	99	558712	125.0	91.9	
45 2,2-Dichloropropane	77	8.489	8.477	0.012	63	264204	25.0	23.8	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	85	196610	25.0	23.3	
50 Chlorobromomethane	128	8.805	8.793	0.012	97	98663	25.0	22.6	
51 Tetrahydrofuran	42	8.830	8.824	0.006	90	152933	50.0	39.9	
49 Chloroform	83	8.842	8.836	0.006	95	326388	25.0	24.4	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	98	311016	25.0	24.9	
54 Cyclohexane	56	9.164	9.164	0.000	93	320641	25.0	22.2	
53 Isobutyl alcohol	43	9.249	9.243	0.006	95	282089	625.0	584.1	
56 1,1-Dichloropropene	75	9.274	9.274	0.000	92	235121	25.0	23.3	
55 Carbon tetrachloride	117	9.304	9.304	0.000	96	287317	25.0	26.4	
57 Benzene	78	9.560	9.548	0.012	98	647701	25.0	22.3	
60 1,2-Dichloroethane	62	9.578	9.572	0.006	98	304600	25.0	23.8	
59 n-Heptane	43	9.681	9.669	0.012	94	210835	25.0	21.7	
62 Trichloroethene	95	10.308	10.302	0.006	94	178111	25.0	22.5	
64 Methylcyclohexane	83	10.545	10.539	0.006	96	257944	25.0	21.6	
63 1,2-Dichloropropane	63	10.618	10.618	0.000	91	173079	25.0	23.1	
68 1,4-Dioxane	88	10.740	10.734	0.006	98	30247	500.0	373.8	
69 Dibromomethane	93	10.807	10.801	0.006	94	128033	25.0	23.3	
70 Dichlorobromomethane	83	10.947	10.941	0.006	98	231834	25.0	25.2	
71 2-Chloroethyl vinyl ether	63	11.208	11.202	0.006	92	51010	25.0	9.49	
73 cis-1,3-Dichloropropene	75	11.482	11.476	0.006	91	244471	25.0	22.0	
75 4-Methyl-2-pentanone (MIBK	43	11.592	11.586	0.006	98	1187185	125.0	101.4	
76 Toluene	92	11.926	11.920	0.006	99	417549	25.0	24.5	
77 Ethyl methacrylate	69	12.151	12.151	0.000	91	204617	25.0	23.2	
78 trans-1,3-Dichloropropene	75	12.182	12.176	0.006	93	241277	25.0	23.1	
79 1,1,2-Trichloroethane	83	12.461	12.462	-0.001	94	128133	25.0	22.5	
80 Tetrachloroethene	166	12.668	12.668	0.000	96	197446	25.0	22.8	
83 2-Hexanone	43	12.674	12.675	-0.001	98	808822	125.0	98.9	
82 1,3-Dichloropropane	76	12.705	12.699	0.006	97	267691	25.0	23.5	
81 Chlorodibromomethane	129	13.046	13.046	0.000	89	178535	25.0	24.8	
85 Ethylene Dibromide	107	13.246	13.240	0.006	99	165854	25.0	22.8	
87 Chlorobenzene	112	13.836	13.837	-0.001	95	519002	25.0	23.1	
89 Ethylbenzene	91	13.903	13.897	0.006	99	818065	25.0	23.8	
88 1,1,1,2-Tetrachloroethane	131	13.922	13.916	0.006	93	201543	25.0	27.2	
90 m-Xylene & p-Xylene	106	14.043	14.037	0.006	0	307377	25.0	24.1	
93 o-Xylene	106	14.591	14.591	0.000	97	318172	25.0	24.6	
94 Styrene	104	14.609	14.609	0.000	94	488554	25.0	25.4	
92 Bromoform	173	14.962	14.962	0.000	96	116182	25.0	20.4	
95 Isopropylbenzene	105	15.035	15.029	0.006	96	815200	25.0	23.5	
97 1,1,2,2-Tetrachloroethane	83	15.461	15.455	0.006	98	233268	25.0	20.6	
98 trans-1,4-Dichloro-2-buten	53	15.515	15.510	0.005	74	54627	25.0	12.1	
101 1,2,3-Trichloropropane	110	15.552	15.546	0.006	61	71988	25.0	21.4	
100 Bromobenzene	156	15.552	15.552	0.000	92	244909	25.0	23.3	
99 N-Propylbenzene	91	15.564	15.564	0.000	98	990001	25.0	23.0	
103 2-Chlorotoluene	126	15.753	15.747	0.006	95	207450	25.0	23.1	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	714279	25.0	24.2	
105 4-Chlorotoluene	126	15.880	15.881	-0.001	98	212795	25.0	22.9	
106 tert-Butylbenzene	134	16.197	16.197	0.000	93	161393	25.0	23.7	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	755340	25.0	24.6	
109 sec-Butylbenzene	105	16.471	16.465	0.006	95	888003	25.0	23.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
112 4-Isopropyltoluene	119	16.623	16.617	0.006	96	805617	25.0	24.0	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	97	445628	25.0	22.8	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	444171	25.0	22.4	
115 n-Butylbenzene	91	17.134	17.134	0.000	98	712275	25.0	23.2	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	457014	25.0	22.9	
117 1,2-Dibromo-3-Chloropropan	75	18.271	18.271	0.000	85	53763	25.0	18.8	
119 1,2,4-Trichlorobenzene	180	19.354	19.348	0.006	94	380929	25.0	23.0	
120 Hexachlorobutadiene	225	19.506	19.500	0.006	95	165249	25.0	21.6	
121 Naphthalene	128	19.750	19.750	0.000	97	966618	25.0	21.9	
122 1,2,3-Trichlorobenzene	180	20.115	20.109	0.006	96	382890	25.0	23.8	

Reagents:

8260 CORP mix_00077	Amount Added: 12.50	Units: uL	
GAS CORP mix_00164	Amount Added: 12.50	Units: uL	
P 8260 IS_00152	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

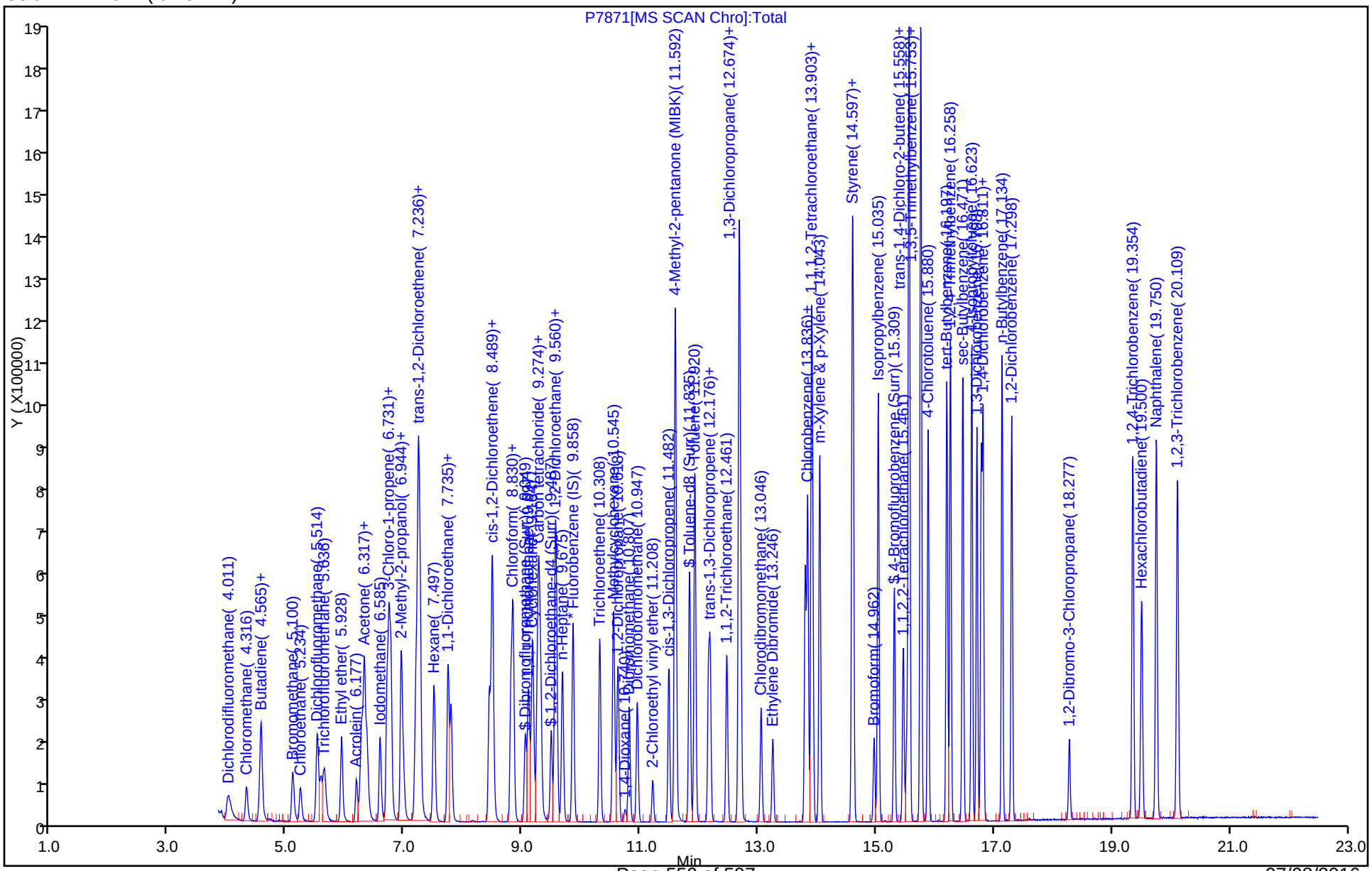
Report Date: 07-Jul-2016 10:07:21 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54624.b\P7871.D

Injection Date:	07-Jul-2016 04:49:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	LCSD			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-14 MS | Lab Sample ID: 480-102539-8 MS

Matrix: Water | Lab File ID: P7829.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 08:31

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.5		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26.1		1.0	0.31
79-00-5	1,1,2-Trichloroethane	22.8		1.0	0.23
75-34-3	1,1-Dichloroethane	24.9		1.0	0.38
75-35-4	1,1-Dichloroethene	26.6		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	23.4		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	24.8		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	19.9		1.0	0.39
106-93-4	1,2-Dibromoethane	22.9		1.0	0.73
95-50-1	1,2-Dichlorobenzene	22.8		1.0	0.79
107-06-2	1,2-Dichloroethane	25.1		1.0	0.21
78-87-5	1,2-Dichloropropane	23.8		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.9		1.0	0.77
541-73-1	1,3-Dichlorobenzene	22.6		1.0	0.78
106-46-7	1,4-Dichlorobenzene	22.4		1.0	0.84
78-93-3	2-Butanone (MEK)	101		10	1.3
591-78-6	2-Hexanone	104		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	105		5.0	2.1
67-64-1	Acetone	118		10	3.0
71-43-2	Benzene	37.2		1.0	0.41
75-27-4	Bromodichloromethane	26.4		1.0	0.39
75-25-2	Bromoform	21.1		1.0	0.26
74-83-9	Bromomethane	27.2		1.0	0.69
75-15-0	Carbon disulfide	25.1		1.0	0.19
56-23-5	Carbon tetrachloride	29.5		1.0	0.27
108-90-7	Chlorobenzene	23.5		1.0	0.75
75-00-3	Chloroethane	27.3		1.0	0.32
67-66-3	Chloroform	25.5		1.0	0.34
74-87-3	Chloromethane	23.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.1		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	22.3		1.0	0.36
110-82-7	Cyclohexane	24.7		1.0	0.18
124-48-1	Dibromochloromethane	24.3		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-14 MS | Lab Sample ID: 480-102539-8 MS

Matrix: Water | Lab File ID: P7829.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 08:31

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	25.6		1.0	0.68
100-41-4	Ethylbenzene	24.5		1.0	0.74
98-82-8	Isopropylbenzene	24.8		1.0	0.79
79-20-9	Methyl acetate	88.2		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.8		1.0	0.16
108-87-2	Methylcyclohexane	24.1		1.0	0.16
75-09-2	Methylene Chloride	26.4		1.0	0.44
100-42-5	Styrene	25.5		1.0	0.73
127-18-4	Tetrachloroethene	24.3		1.0	0.36
108-88-3	Toluene	26.4		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	22.8		1.0	0.37
79-01-6	Trichloroethene	24.7		1.0	0.46
75-69-4	Trichlorofluoromethane	30.0		1.0	0.88
75-01-4	Vinyl chloride	23.8		1.0	0.90
1330-20-7	Xylenes, Total	50.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		66-137
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7829.D
Lims ID: 480-102539-A-8 MS
Client ID: 4009-14
Sample Type: MS
Inject. Date: 06-Jul-2016 08:31:30 ALS Bottle#: 25 Worklist Smp#: 44
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-8 ms
Misc. Info.: 480-0054594-044
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:01:52

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	9.858	9.852	0.006	98	105072	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	85	218367	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	273221	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.043	-0.001	93	156967	25.0	26.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	95891	25.0	25.6	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	93	504550	25.0	24.1	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	93	193020	25.0	24.3	
10 Dichlorodifluoromethane	85	4.017	4.017	0.000	99	242939	25.0	25.6	
11 Chloromethane	50	4.315	4.322	-0.007	99	169151	25.0	23.8	
17 Vinyl chloride	62	4.547	4.553	-0.006	98	141790	25.0	23.8	
12 Bromomethane	94	5.106	5.094	0.012	95	118827	25.0	27.2	
13 Chloroethane	64	5.228	5.228	0.000	97	124396	25.0	27.3	
14 Trichlorofluoromethane	101	5.636	5.636	0.000	98	402925	25.0	30.0	
16 1,1,2-Trichloro-1,2,2-trif	101	6.268	6.274	-0.006	90	204356	25.0	26.1	
25 1,1-Dichloroethene	96	6.317	6.311	0.006	94	184836	25.0	26.6	
24 Acetone	43	6.360	6.354	0.006	98	425583	125.0	118.1	
27 Carbon disulfide	76	6.694	6.694	0.000	100	565209	25.0	25.1	
30 Methyl acetate	43	6.731	6.731	0.000	99	874256	125.0	88.2	
31 Methylene Chloride	84	6.938	6.938	0.000	97	182995	25.0	26.4	
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	99	569232	25.0	23.8	
35 trans-1,2-Dichloroethene	96	7.260	7.254	0.006	94	184980	25.0	24.9	
40 1,1-Dichloroethane	63	7.783	7.783	0.000	97	353148	25.0	24.9	
44 2-Butanone (MEK)	43	8.434	8.428	0.006	99	604321	125.0	100.9	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	86	200857	25.0	24.1	
49 Chloroform	83	8.842	8.836	0.006	95	336312	25.0	25.5	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	98	338492	25.0	27.5	
54 Cyclohexane	56	9.164	9.164	0.000	94	351026	25.0	24.7	
55 Carbon tetrachloride	117	9.298	9.298	0.000	96	315940	25.0	29.5	
57 Benzene	78	9.553	9.547	0.006	98	1062554	25.0	37.2	
60 1,2-Dichloroethane	62	9.578	9.572	0.006	98	315990	25.0	25.1	
62 Trichloroethene	95	10.308	10.302	0.006	94	192598	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	10.545	10.539	0.006	95	283517	25.0	24.1	
63 1,2-Dichloropropane	63	10.618	10.612	0.006	90	175879	25.0	23.8	
70 Dichlorobromomethane	83	10.947	10.941	0.006	97	238860	25.0	26.4	
73 cis-1,3-Dichloropropene	75	11.482	11.476	0.006	92	243717	25.0	22.3	
75 4-Methyl-2-pentanone (MIBK	43	11.591	11.585	0.006	98	1256088	125.0	105.2	
76 Toluene	92	11.920	11.920	0.000	98	457448	25.0	26.4	
78 trans-1,3-Dichloropropene	75	12.182	12.176	0.006	97	242820	25.0	22.8	
79 1,1,2-Trichloroethane	83	12.461	12.461	0.000	94	132698	25.0	22.8	
80 Tetrachloroethene	166	12.668	12.668	0.000	94	214779	25.0	24.3	
83 2-Hexanone	43	12.680	12.674	0.006	98	866470	125.0	103.9	
81 Chlorodibromomethane	129	13.045	13.045	0.000	90	178768	25.0	24.3	
85 Ethylene Dibromide	107	13.246	13.240	0.006	98	170396	25.0	22.9	
87 Chlorobenzene	112	13.836	13.836	0.000	95	536797	25.0	23.5	
89 Ethylbenzene	91	13.903	13.897	0.006	99	859002	25.0	24.5	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	322374		24.8	
93 o-Xylene	106	14.591	14.591	0.000	97	333502		25.3	
94 Styrene	104	14.609	14.609	0.000	95	501080	25.0	25.5	
92 Bromoform	173	14.962	14.962	0.000	97	122138	25.0	21.1	
95 Isopropylbenzene	105	15.035	15.035	0.000	96	876570	25.0	24.8	
97 1,1,2,2-Tetrachloroethane	83	15.455	15.455	0.000	98	241514	25.0	20.9	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	749293	25.0	24.9	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	778140	25.0	24.8	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	98	450572	25.0	22.6	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	95	452683	25.0	22.4	
113 1,2,3-Trimethylbenzene	105		16.818					ND	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	462868	25.0	22.8	
117 1,2-Dibromo-3-Chloropropan	75	18.277	18.277	0.000	84	57984	25.0	19.9	
119 1,2,4-Trichlorobenzene	180	19.348	19.354	-0.006	94	394124	25.0	23.4	
S 126 Xylenes, Total	1				0			50.1	

Reagents:

8260 CORP mix_00077	Amount Added: 12.50	Units: uL	
GAS CORP mix_00163	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

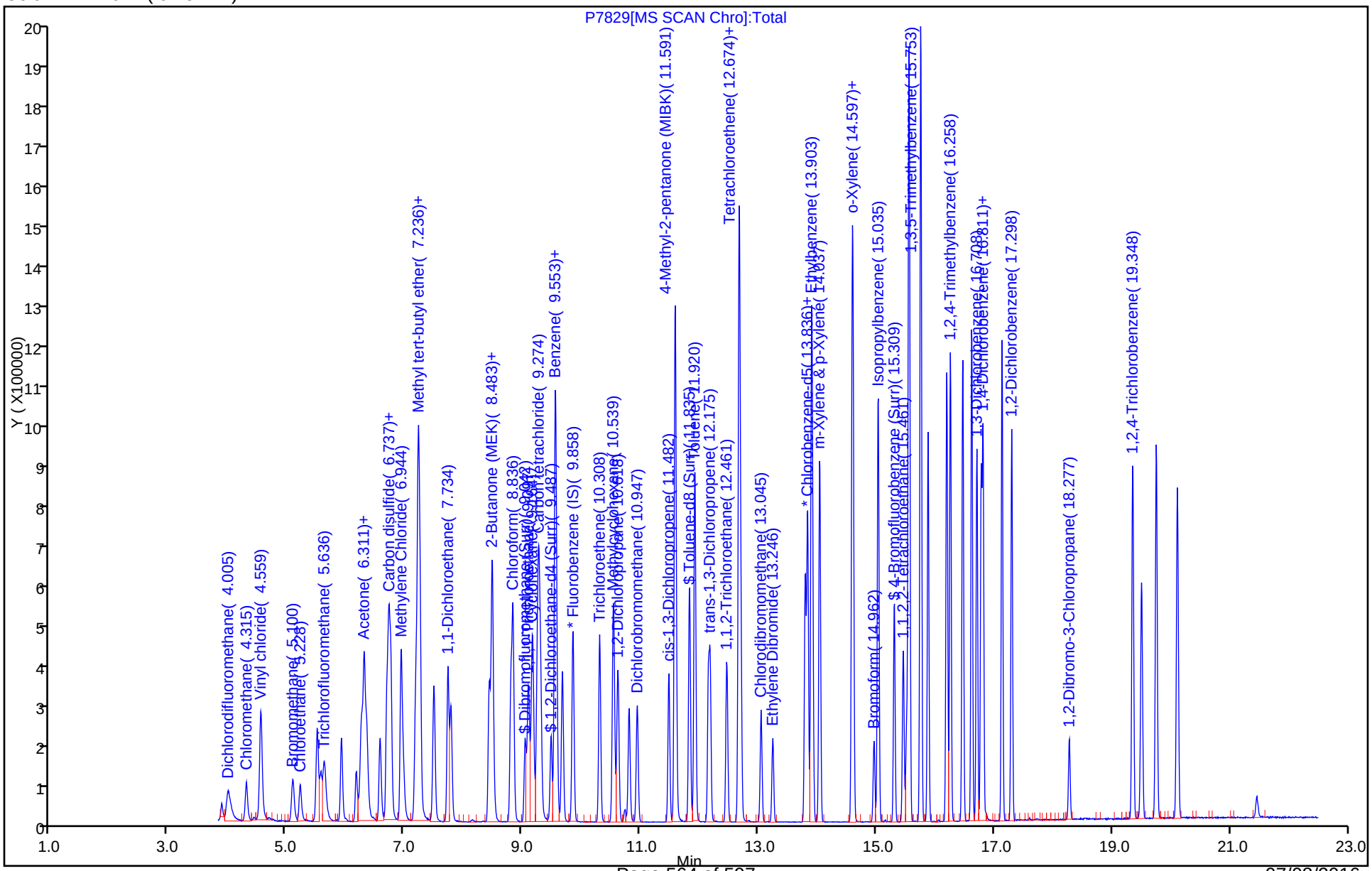
Report Date: 07-Jul-2016 08:01:53 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7829.D

Injection Date:	06-Jul-2016 08:31:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-8 MS			Worklist Smp#:	44
Client ID:	4009-14				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-27I MS | Lab Sample ID: 480-102539-17 MS

Matrix: Water | Lab File ID: P7855.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 21:10

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	29.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.3		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.8		1.0	0.31
79-00-5	1,1,2-Trichloroethane	23.1		1.0	0.23
75-34-3	1,1-Dichloroethane	25.5		1.0	0.38
75-35-4	1,1-Dichloroethene	26.7		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	22.7		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	24.5		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	21.3		1.0	0.39
106-93-4	1,2-Dibromoethane	23.9		1.0	0.73
95-50-1	1,2-Dichlorobenzene	22.6		1.0	0.79
107-06-2	1,2-Dichloroethane	26.0		1.0	0.21
78-87-5	1,2-Dichloropropane	24.4		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.4		1.0	0.77
541-73-1	1,3-Dichlorobenzene	22.5		1.0	0.78
106-46-7	1,4-Dichlorobenzene	22.6		1.0	0.84
78-93-3	2-Butanone (MEK)	114		10	1.3
591-78-6	2-Hexanone	114		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	114		5.0	2.1
67-64-1	Acetone	124		10	3.0
71-43-2	Benzene	25.5		1.0	0.41
75-27-4	Bromodichloromethane	27.6		1.0	0.39
75-25-2	Bromoform	21.5		1.0	0.26
74-83-9	Bromomethane	27.6		1.0	0.69
75-15-0	Carbon disulfide	26.2		1.0	0.19
56-23-5	Carbon tetrachloride	30.6		1.0	0.27
108-90-7	Chlorobenzene	23.4		1.0	0.75
75-00-3	Chloroethane	28.4		1.0	0.32
67-66-3	Chloroform	26.7		1.0	0.34
74-87-3	Chloromethane	20.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	22.4		1.0	0.36
110-82-7	Cyclohexane	24.0		1.0	0.18
124-48-1	Dibromochloromethane	25.3		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-27I MS | Lab Sample ID: 480-102539-17 MS

Matrix: Water | Lab File ID: P7855.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 21:10

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	22.3		1.0	0.68
100-41-4	Ethylbenzene	24.7		1.0	0.74
98-82-8	Isopropylbenzene	24.0		1.0	0.79
79-20-9	Methyl acetate	94.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.7		1.0	0.16
108-87-2	Methylcyclohexane	22.8		1.0	0.16
75-09-2	Methylene Chloride	26.4		1.0	0.44
100-42-5	Styrene	25.8		1.0	0.73
127-18-4	Tetrachloroethene	24.1		1.0	0.36
108-88-3	Toluene	25.6		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	22.4		1.0	0.37
79-01-6	Trichloroethene	26.2		1.0	0.46
75-69-4	Trichlorofluoromethane	29.2		1.0	0.88
75-01-4	Vinyl chloride	21.8		1.0	0.90
1330-20-7	Xylenes, Total	49.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		66-137
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		60-140
2037-26-5	Toluene-d8 (Surr)	96		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7855.D
Lims ID: 480-102539-A-17 MS
Client ID: 4009-27I
Sample Type: MS
Inject. Date: 06-Jul-2016 21:10:30 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-17 MS
Misc. Info.: 480-0054607-022
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 21:36:46 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 21:39:30

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	9.858	9.851	0.007	98	99447	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	211232	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	270630	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.042	9.042	0.000	92	149005	25.0	26.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.480	0.007	0	95606	25.0	27.0	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	486622	25.0	24.1	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.006	93	189660	25.0	24.7	
10 Dichlorodifluoromethane	85	4.017	4.018	-0.001	99	200709	25.0	22.3	
11 Chloromethane	50	4.322	4.316	0.006	99	137558	25.0	20.5	
17 Vinyl chloride	62	4.553	4.547	0.006	97	123036	25.0	21.8	
12 Bromomethane	94	5.112	5.094	0.018	95	114246	25.0	27.6	
13 Chloroethane	64	5.234	5.228	0.006	97	122403	25.0	28.4	
14 Trichlorofluoromethane	101	5.648	5.636	0.012	98	371742	25.0	29.2	
16 1,1,2-Trichloro-1,2,2-trif	101	6.274	6.269	0.005	91	191711	25.0	25.8	
25 1,1-Dichloroethene	96	6.323	6.311	0.012	94	175701	25.0	26.7	
24 Acetone	43	6.360	6.354	0.006	98	423664	125.0	124.2	
27 Carbon disulfide	76	6.700	6.694	0.006	100	558979	25.0	26.2	
30 Methyl acetate	43	6.737	6.731	0.006	99	889281	125.0	94.8	
31 Methylene Chloride	84	6.938	6.938	0.000	97	173343	25.0	26.4	
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	99	536667	25.0	23.7	
35 trans-1,2-Dichloroethene	96	7.266	7.260	0.006	94	184141	25.0	26.2	
40 1,1-Dichloroethane	63	7.789	7.783	0.006	97	342399	25.0	25.5	
44 2-Butanone (MEK)	43	8.434	8.428	0.006	98	647603	125.0	114.3	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	85	198920	25.0	25.3	
49 Chloroform	83	8.842	8.836	0.006	95	332304	25.0	26.7	
52 1,1,1-Trichloroethane	97	9.097	9.097	0.000	98	342089	25.0	29.3	
54 Cyclohexane	56	9.170	9.164	0.006	94	323867	25.0	24.0	
55 Carbon tetrachloride	117	9.304	9.298	0.006	97	310439	25.0	30.6	
57 Benzene	78	9.553	9.554	-0.001	98	688586	25.0	25.5	
60 1,2-Dichloroethane	62	9.578	9.578	0.000	97	309608	25.0	26.0	
62 Trichloroethene	95	10.314	10.302	0.012	95	193070	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	10.545	10.539	0.006	97	253438	25.0	22.8	
63 1,2-Dichloropropane	63	10.618	10.612	0.006	90	170544	25.0	24.4	
70 Dichlorobromomethane	83	10.947	10.941	0.006	98	237048	25.0	27.6	
73 cis-1,3-Dichloropropene	75	11.482	11.476	0.006	91	231313	25.0	22.4	
75 4-Methyl-2-pentanone (MIBK	43	11.591	11.586	0.005	99	1312083	125.0	113.6	
76 Toluene	92	11.926	11.920	0.006	98	430319	25.0	25.6	
78 trans-1,3-Dichloropropene	75	12.182	12.182	0.000	97	230649	25.0	22.4	
79 1,1,2-Trichloroethane	83	12.461	12.462	-0.001	93	129876	25.0	23.1	
80 Tetrachloroethene	166	12.668	12.669	0.000	96	205968	25.0	24.1	
83 2-Hexanone	43	12.674	12.675	-0.001	98	916165	125.0	113.6	
81 Chlorodibromomethane	129	13.052	13.046	0.006	90	179609	25.0	25.3	
85 Ethylene Dibromide	107	13.246	13.240	0.006	98	172067	25.0	23.9	
87 Chlorobenzene	112	13.836	13.837	-0.001	95	518020	25.0	23.4	
89 Ethylbenzene	91	13.903	13.897	0.006	99	837361	25.0	24.7	
90 m-Xylene & p-Xylene	106	14.037	14.037	0.000	0	309232		24.6	
93 o-Xylene	106	14.591	14.591	0.000	98	318356		25.0	
94 Styrene	104	14.609	14.609	0.000	96	490140	25.0	25.8	
92 Bromoform	173	14.962	14.962	0.000	96	120615	25.0	21.5	
95 Isopropylbenzene	105	15.035	15.029	0.006	97	839585	25.0	24.0	
97 1,1,2,2-Tetrachloroethane	83	15.461	15.455	0.006	98	243351	25.0	21.3	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	725922	25.0	24.4	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	759988	25.0	24.5	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	97	444804	25.0	22.5	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	451005	25.0	22.6	
113 1,2,3-Trimethylbenzene	105		16.817					ND	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	455856	25.0	22.6	
117 1,2-Dibromo-3-Chloropropan	75	18.277	18.278	-0.001	84	61576	25.0	21.3	
119 1,2,4-Trichlorobenzene	180	19.348	19.348	0.000	94	379238	25.0	22.7	
S 126 Xylenes, Total	1				0			49.6	

Reagents:

8260 CORP mix_00077	Amount Added: 12.50	Units: uL	
GAS CORP mix_00164	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

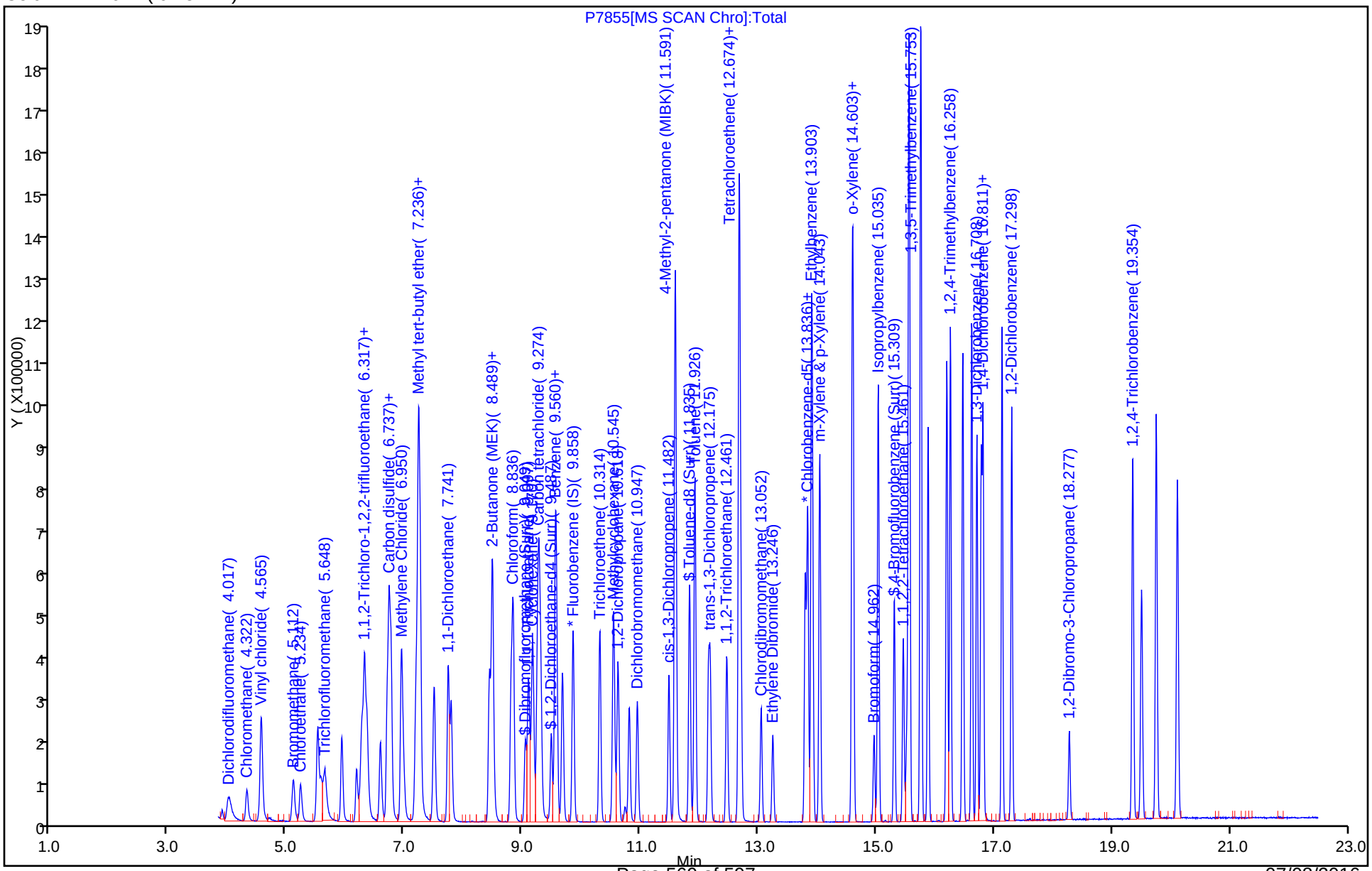
Report Date: 06-Jul-2016 21:39:30 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7855.D

Injection Date:	06-Jul-2016 21:10:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-17 MS			Worklist Smp#:	22
Client ID:	4009-27I				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-14 MSD | Lab Sample ID: 480-102539-8 MSD

Matrix: Water | Lab File ID: P7830.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 08:59

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.4		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.4		1.0	0.31
79-00-5	1,1,2-Trichloroethane	22.5		1.0	0.23
75-34-3	1,1-Dichloroethane	24.5		1.0	0.38
75-35-4	1,1-Dichloroethene	25.7		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	23.2		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	24.7		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	21.1		1.0	0.39
106-93-4	1,2-Dibromoethane	23.3		1.0	0.73
95-50-1	1,2-Dichlorobenzene	22.7		1.0	0.79
107-06-2	1,2-Dichloroethane	24.8		1.0	0.21
78-87-5	1,2-Dichloropropane	23.9		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	24.6		1.0	0.77
541-73-1	1,3-Dichlorobenzene	22.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	22.4		1.0	0.84
78-93-3	2-Butanone (MEK)	116		10	1.3
591-78-6	2-Hexanone	111		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	110		5.0	2.1
67-64-1	Acetone	137		10	3.0
71-43-2	Benzene	36.9		1.0	0.41
75-27-4	Bromodichloromethane	25.7		1.0	0.39
75-25-2	Bromoform	20.5		1.0	0.26
74-83-9	Bromomethane	27.0		1.0	0.69
75-15-0	Carbon disulfide	24.4		1.0	0.19
56-23-5	Carbon tetrachloride	28.8		1.0	0.27
108-90-7	Chlorobenzene	23.1		1.0	0.75
75-00-3	Chloroethane	26.1		1.0	0.32
67-66-3	Chloroform	25.2		1.0	0.34
74-87-3	Chloromethane	24.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.0		1.0	0.36
110-82-7	Cyclohexane	24.4		1.0	0.18
124-48-1	Dibromochloromethane	24.5		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-14 MSD | Lab Sample ID: 480-102539-8 MSD

Matrix: Water | Lab File ID: P7830.D

Analysis Method: 8260C | Date Collected: 06/30/2016 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 08:59

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.: 309812 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	25.6		1.0	0.68
100-41-4	Ethylbenzene	24.2		1.0	0.74
98-82-8	Isopropylbenzene	24.5		1.0	0.79
79-20-9	Methyl acetate	93.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.9		1.0	0.16
108-87-2	Methylcyclohexane	23.6		1.0	0.16
75-09-2	Methylene Chloride	25.4		1.0	0.44
100-42-5	Styrene	25.1		1.0	0.73
127-18-4	Tetrachloroethene	23.9		1.0	0.36
108-88-3	Toluene	25.8		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	22.5		1.0	0.37
79-01-6	Trichloroethene	24.2		1.0	0.46
75-69-4	Trichlorofluoromethane	30.0		1.0	0.88
75-01-4	Vinyl chloride	25.3		1.0	0.90
1330-20-7	Xylenes, Total	49.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		66-137
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7830.D
Lims ID: 480-102539-A-8 MSD
Client ID: 4009-14
Sample Type: MSD
Inject. Date: 06-Jul-2016 08:59:30 ALS Bottle#: 26 Worklist Smp#: 45
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-a-8 msd
Misc. Info.: 480-0054594-045
Operator ID: SY Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 07-Jul-2016 07:58:11 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: cwiklinc Date: 07-Jul-2016 08:02:02

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	9.858	9.852	0.006	98	108849	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	85	227364	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	279773	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.043	0.006	93	159532	25.0	25.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.481	0.006	0	99242	25.0	25.6	
$ 5 Toluene-d8 (Surr)	98	11.829	11.829	0.000	94	527061	25.0	24.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.309	0.000	93	205806	25.0	24.9	
10 Dichlorodifluoromethane	85	4.024	4.017	0.007	99	251650	25.0	25.6	
11 Chloromethane	50	4.322	4.322	0.000	99	180594	25.0	24.5	
17 Vinyl chloride	62	4.547	4.553	-0.006	98	156427	25.0	25.3	
12 Bromomethane	94	5.100	5.094	0.006	94	122306	25.0	27.0	
13 Chloroethane	64	5.228	5.228	0.000	97	123069	25.0	26.1	
14 Trichlorofluoromethane	101	5.636	5.636	0.000	97	417250	25.0	30.0	
16 1,1,2-Trichloro-1,2,2-trif	101	6.275	6.274	0.001	90	206613	25.0	25.4	
25 1,1-Dichloroethene	96	6.317	6.311	0.006	94	185035	25.0	25.7	
24 Acetone	43	6.360	6.354	0.006	99	513301	125.0	137.5	
27 Carbon disulfide	76	6.700	6.694	0.006	100	570884	25.0	24.4	
30 Methyl acetate	43	6.731	6.731	0.000	99	955248	125.0	93.1	
31 Methylene Chloride	84	6.944	6.938	0.006	97	182573	25.0	25.4	
32 Methyl tert-butyl ether	73	7.193	7.193	0.000	98	592256	25.0	23.9	
35 trans-1,2-Dichloroethene	96	7.260	7.254	0.006	95	187219	25.0	24.3	
40 1,1-Dichloroethane	63	7.789	7.783	0.006	97	360796	25.0	24.5	
44 2-Butanone (MEK)	43	8.434	8.428	0.006	99	720437	125.0	116.1	
43 cis-1,2-Dichloroethene	96	8.483	8.483	0.000	84	206407	25.0	24.0	
49 Chloroform	83	8.842	8.836	0.006	95	343647	25.0	25.2	
52 1,1,1-Trichloroethane	97	9.103	9.097	0.006	98	342529	25.0	26.8	
54 Cyclohexane	56	9.170	9.164	0.006	94	359940	25.0	24.4	
55 Carbon tetrachloride	117	9.304	9.298	0.006	97	319832	25.0	28.8	
57 Benzene	78	9.554	9.547	0.007	98	1091025	25.0	36.9	
60 1,2-Dichloroethane	62	9.578	9.572	0.006	98	323645	25.0	24.8	
62 Trichloroethene	95	10.308	10.302	0.006	94	194902	25.0	24.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	10.539	10.539	0.000	95	287212	25.0	23.6	
63 1,2-Dichloropropane	63	10.618	10.612	0.006	92	182986	25.0	23.9	
70 Dichlorobromomethane	83	10.947	10.941	0.006	98	240801	25.0	25.7	
73 cis-1,3-Dichloropropene	75	11.482	11.476	0.006	92	260456	25.0	23.0	
75 4-Methyl-2-pentanone (MIBK	43	11.592	11.585	0.007	98	1366669	125.0	109.9	
76 Toluene	92	11.926	11.920	0.006	97	465523	25.0	25.8	
78 trans-1,3-Dichloropropene	75	12.182	12.176	0.006	95	249110	25.0	22.5	
79 1,1,2-Trichloroethane	83	12.462	12.461	0.001	94	135914	25.0	22.5	
80 Tetrachloroethene	166	12.668	12.668	0.000	95	219190	25.0	23.9	
83 2-Hexanone	43	12.674	12.674	0.000	98	966879	125.0	111.3	
81 Chlorodibromomethane	129	13.046	13.045	0.001	90	187131	25.0	24.5	
85 Ethylene Dibromide	107	13.246	13.240	0.006	98	180109	25.0	23.3	
87 Chlorobenzene	112	13.836	13.836	0.000	96	550988	25.0	23.1	
89 Ethylbenzene	91	13.903	13.897	0.006	99	880476	25.0	24.2	
90 m-Xylene & p-Xylene	106	14.043	14.043	0.000	0	334391		24.7	
93 o-Xylene	106	14.591	14.591	0.000	96	340586		24.8	
94 Styrene	104	14.609	14.609	0.000	93	512746	25.0	25.1	
92 Bromoform	173	14.962	14.962	0.000	96	123529	25.0	20.5	
95 Isopropylbenzene	105	15.035	15.035	0.000	96	888883	25.0	24.5	
97 1,1,2,2-Tetrachloroethane	83	15.455	15.455	0.000	98	252511	25.0	21.4	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	94	758413	25.0	24.6	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	792018	25.0	24.7	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	98	464868	25.0	22.8	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	94	462689	25.0	22.4	
113 1,2,3-Trimethylbenzene	105		16.818					ND	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	471353	25.0	22.7	
117 1,2-Dibromo-3-Chloropropan	75	18.277	18.277	0.000	84	63010	25.0	21.1	
119 1,2,4-Trichlorobenzene	180	19.354	19.354	0.000	94	399782	25.0	23.2	
S 126 Xylenes, Total	1				0			49.6	

Reagents:

8260 CORP mix_00077	Amount Added: 12.50	Units: uL	
GAS CORP mix_00163	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

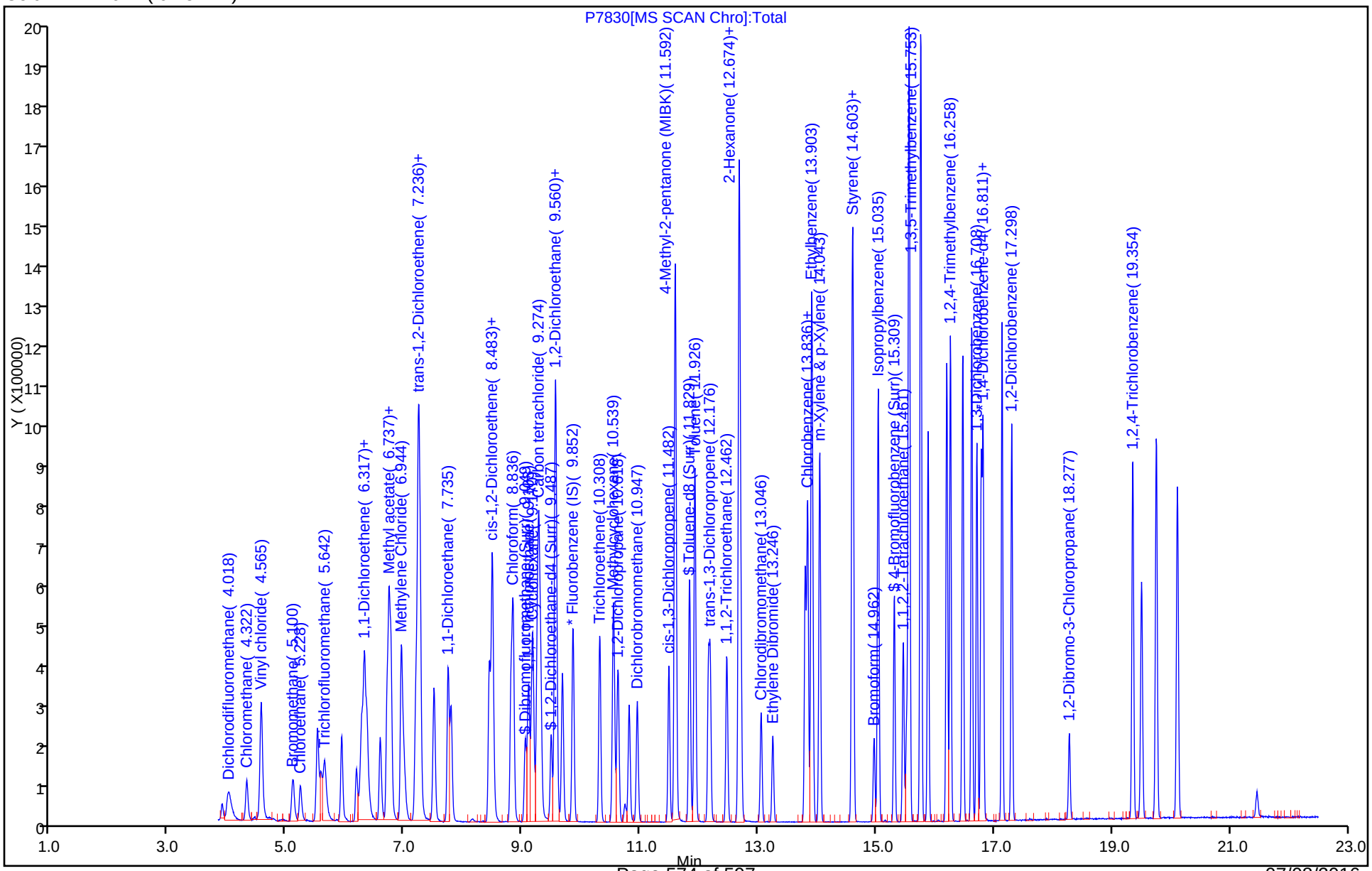
Report Date: 07-Jul-2016 08:02:03 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160705-54594.b\P7830.D

Injection Date:	06-Jul-2016 08:59:30	Instrument ID:	HP5973P	Operator ID:	SY
Lims ID:	480-102539-A-8 MSD			Worklist Smp#:	45
Client ID:	4009-14				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	P-8260H2O	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.: 480-102539-1

SDG No.:

Client Sample ID: 4009-27I MSD | Lab Sample ID: 480-102539-17 MSD

Matrix: Water | Lab File ID: P7856.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 21:38

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.4		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	21.9		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.7		1.0	0.31
79-00-5	1,1,2-Trichloroethane	23.0		1.0	0.23
75-34-3	1,1-Dichloroethane	25.4		1.0	0.38
75-35-4	1,1-Dichloroethene	25.3		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	22.1		1.0	0.41
95-63-6	1,2,4-Trimethylbenzene	23.1		1.0	0.75
96-12-8	1,2-Dibromo-3-Chloropropane	22.7		1.0	0.39
106-93-4	1,2-Dibromoethane	23.6		1.0	0.73
95-50-1	1,2-Dichlorobenzene	22.0		1.0	0.79
107-06-2	1,2-Dichloroethane	25.6		1.0	0.21
78-87-5	1,2-Dichloropropane	23.9		1.0	0.72
108-67-8	1,3,5-Trimethylbenzene	22.5		1.0	0.77
541-73-1	1,3-Dichlorobenzene	21.7		1.0	0.78
106-46-7	1,4-Dichlorobenzene	21.4		1.0	0.84
78-93-3	2-Butanone (MEK)	120		10	1.3
591-78-6	2-Hexanone	119		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	117		5.0	2.1
67-64-1	Acetone	136		10	3.0
71-43-2	Benzene	24.3		1.0	0.41
75-27-4	Bromodichloromethane	27.3		1.0	0.39
75-25-2	Bromoform	21.6		1.0	0.26
74-83-9	Bromomethane	34.1		1.0	0.69
75-15-0	Carbon disulfide	23.4		1.0	0.19
56-23-5	Carbon tetrachloride	28.2		1.0	0.27
108-90-7	Chlorobenzene	22.4		1.0	0.75
75-00-3	Chloroethane	28.1		1.0	0.32
67-66-3	Chloroform	26.1		1.0	0.34
74-87-3	Chloromethane	22.1		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	22.6		1.0	0.36
110-82-7	Cyclohexane	21.3		1.0	0.18
124-48-1	Dibromochloromethane	25.1		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-102539-1

SDG No.:

Client Sample ID: 4009-27I MSD | Lab Sample ID: 480-102539-17 MSD

Matrix: Water | Lab File ID: P7856.D

Analysis Method: 8260C | Date Collected: 06/30/2016 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 07/06/2016 21:38

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.: 309873 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	22.1		1.0	0.68
100-41-4	Ethylbenzene	22.8		1.0	0.74
98-82-8	Isopropylbenzene	22.2		1.0	0.79
79-20-9	Methyl acetate	99.0		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.3		1.0	0.16
108-87-2	Methylcyclohexane	21.1		1.0	0.16
75-09-2	Methylene Chloride	25.9		1.0	0.44
100-42-5	Styrene	24.7		1.0	0.73
127-18-4	Tetrachloroethene	22.1		1.0	0.36
108-88-3	Toluene	24.4		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.4		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	22.6		1.0	0.37
79-01-6	Trichloroethene	24.6		1.0	0.46
75-69-4	Trichlorofluoromethane	27.9		1.0	0.88
75-01-4	Vinyl chloride	23.5		1.0	0.90
1330-20-7	Xylenes, Total	47.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		66-137
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		60-140
2037-26-5	Toluene-d8 (Surr)	97		71-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7856.D
Lims ID: 480-102539-A-17 MSD
Client ID: 4009-27I
Sample Type: MSD
Inject. Date: 06-Jul-2016 21:38:30 ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-102539-A-17 MSD
Misc. Info.: 480-0054607-023
Operator ID: CDC Instrument ID: HP5973P

Method: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Jul-2016 19:58:00 Calib Date: 20-Jun-2016 05:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20160619-54167.b\P7365.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: youngmans Date: 06-Jul-2016 22:16:19

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	9.858	9.851	0.007	98	104637	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.794	13.794	0.000	86	219335	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.781	16.781	0.000	94	276343	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.049	9.042	0.007	93	154512	25.0	25.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.487	9.480	0.007	0	98333	25.0	26.4	
$ 5 Toluene-d8 (Surr)	98	11.835	11.829	0.006	94	507508	25.0	24.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.309	15.302	0.007	93	199036	25.0	24.9	
10 Dichlorodifluoromethane	85	4.012	4.018	-0.006	98	209064	25.0	22.1	
11 Chloromethane	50	4.322	4.316	0.006	99	156355	25.0	22.1	
17 Vinyl chloride	62	4.553	4.547	0.006	97	139681	25.0	23.5	
12 Bromomethane	94	5.107	5.094	0.013	93	148534	25.0	34.1	
13 Chloroethane	64	5.241	5.228	0.013	97	127146	25.0	28.1	
14 Trichlorofluoromethane	101	5.642	5.636	0.006	98	372879	25.0	27.9	
16 1,1,2-Trichloro-1,2,2-trif	101	6.275	6.269	0.006	90	185434	25.0	23.7	
25 1,1-Dichloroethene	96	6.323	6.311	0.012	94	174677	25.0	25.3	
24 Acetone	43	6.360	6.354	0.006	98	487599	125.0	135.8	
27 Carbon disulfide	76	6.707	6.694	0.013	100	526645	25.0	23.4	
30 Methyl acetate	43	6.737	6.731	0.006	99	976394	125.0	99.0	
31 Methylene Chloride	84	6.944	6.938	0.006	97	178968	25.0	25.9	
32 Methyl tert-butyl ether	73	7.199	7.193	0.006	98	579586	25.0	24.3	
35 trans-1,2-Dichloroethene	96	7.266	7.260	0.006	94	180261	25.0	24.4	
40 1,1-Dichloroethane	63	7.796	7.783	0.013	97	359251	25.0	25.4	
44 2-Butanone (MEK)	43	8.434	8.428	0.006	98	713814	125.0	119.7	
43 cis-1,2-Dichloroethene	96	8.489	8.483	0.006	85	203689	25.0	24.6	
49 Chloroform	83	8.842	8.836	0.006	95	342450	25.0	26.1	
52 1,1,1-Trichloroethane	97	9.104	9.097	0.007	98	335653	25.0	27.4	
54 Cyclohexane	56	9.177	9.164	0.013	94	301881	25.0	21.3	
55 Carbon tetrachloride	117	9.304	9.298	0.006	96	301045	25.0	28.2	
57 Benzene	78	9.560	9.554	0.006	98	689872	25.0	24.3	
60 1,2-Dichloroethane	62	9.584	9.578	0.006	98	321186	25.0	25.6	
62 Trichloroethene	95	10.314	10.302	0.012	94	190887	25.0	24.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	10.545	10.539	0.006	97	247003	25.0	21.1	
63 1,2-Dichloropropane	63	10.618	10.612	0.006	90	176225	25.0	23.9	
70 Dichlorobromomethane	83	10.947	10.941	0.006	98	246566	25.0	27.3	
73 cis-1,3-Dichloropropene	75	11.482	11.476	0.006	92	245684	25.0	22.6	
75 4-Methyl-2-pentanone (MIBK	43	11.592	11.586	0.006	98	1404027	125.0	117.1	
76 Toluene	92	11.926	11.920	0.006	98	426583	25.0	24.4	
78 trans-1,3-Dichloropropene	75	12.182	12.182	0.000	94	241764	25.0	22.6	
79 1,1,2-Trichloroethane	83	12.462	12.462	0.000	94	134124	25.0	23.0	
80 Tetrachloroethene	166	12.669	12.669	0.001	95	195856	25.0	22.1	
83 2-Hexanone	43	12.675	12.675	0.000	98	993120	125.0	118.6	
81 Chlorodibromomethane	129	13.052	13.046	0.006	90	185136	25.0	25.1	
85 Ethylene Dibromide	107	13.247	13.240	0.007	98	176445	25.0	23.6	
87 Chlorobenzene	112	13.837	13.837	0.000	95	515941	25.0	22.4	
89 Ethylbenzene	91	13.904	13.897	0.007	99	802747	25.0	22.8	
90 m-Xylene & p-Xylene	106	14.043	14.037	0.006	0	303579		23.3	
93 o-Xylene	106	14.591	14.591	0.000	98	315526		23.8	
94 Styrene	104	14.609	14.609	0.000	95	488211	25.0	24.7	
92 Bromoform	173	14.962	14.962	0.000	97	125731	25.0	21.6	
95 Isopropylbenzene	105	15.035	15.029	0.006	96	794156	25.0	22.2	
97 1,1,2,2-Tetrachloroethane	83	15.461	15.455	0.006	98	256098	25.0	21.9	
102 1,3,5-Trimethylbenzene	105	15.759	15.759	0.000	95	683910	25.0	22.5	
107 1,2,4-Trimethylbenzene	105	16.258	16.258	0.000	97	731903	25.0	23.1	
110 1,3-Dichlorobenzene	146	16.708	16.708	0.000	97	436624	25.0	21.7	
111 1,4-Dichlorobenzene	146	16.811	16.811	0.000	93	436135	25.0	21.4	
113 1,2,3-Trimethylbenzene	105		16.817					ND	
116 1,2-Dichlorobenzene	146	17.298	17.298	0.000	97	452590	25.0	22.0	
117 1,2-Dibromo-3-Chloropropan	75	18.272	18.278	-0.006	83	66868	25.0	22.7	
119 1,2,4-Trichlorobenzene	180	19.354	19.348	0.006	94	377415	25.0	22.1	
S 126 Xylenes, Total	1				0			47.1	

Reagents:

8260 CORP mix_00077	Amount Added: 12.50	Units: uL	
GAS CORP mix_00164	Amount Added: 12.50	Units: uL	
P 8260 IS_00151	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00186	Amount Added: 1.25	Units: uL	Run Reagent

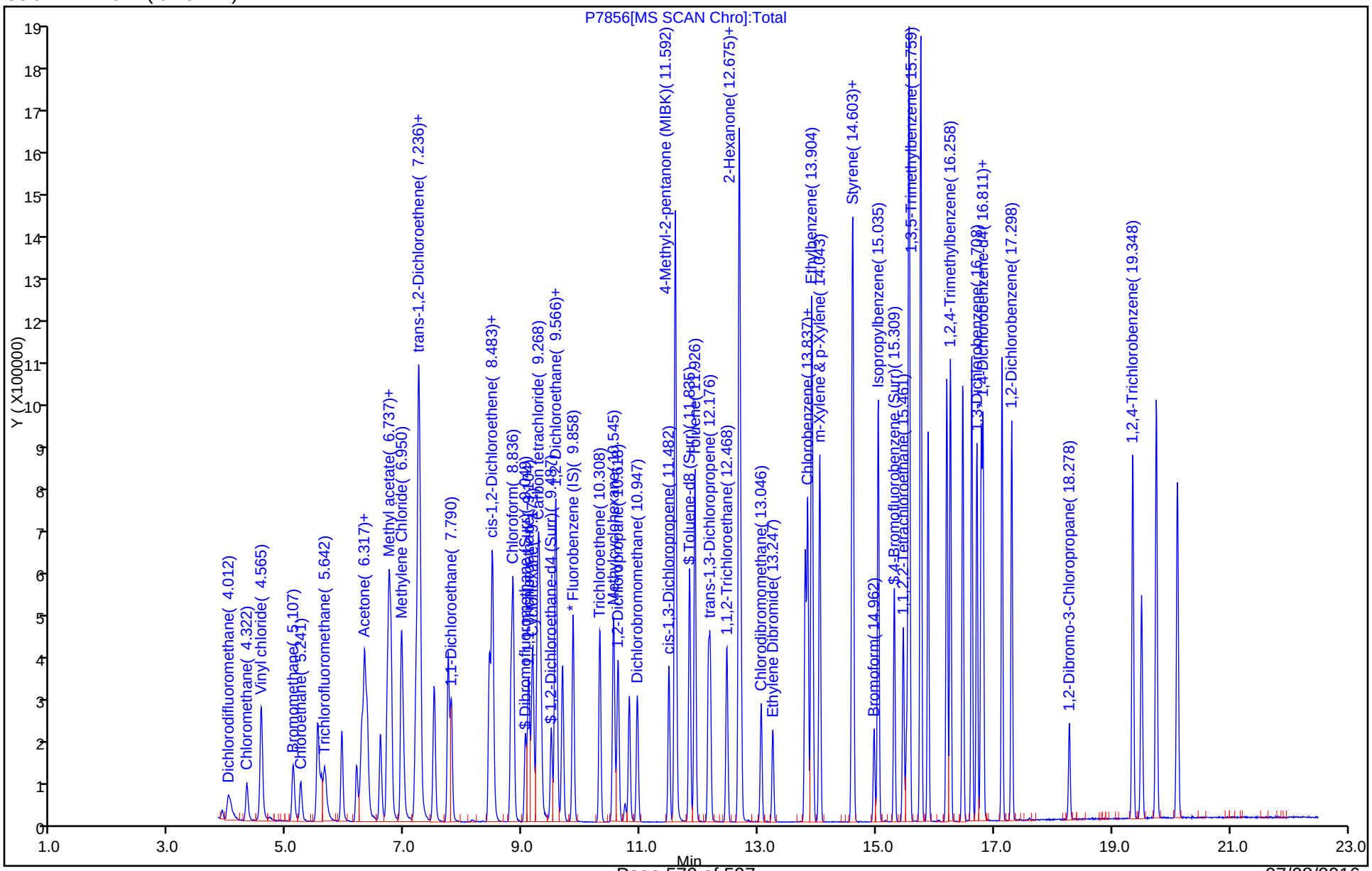
Report Date: 06-Jul-2016 22:16:19 Chrom Revision: 2.2 20-Apr-2016 13:59:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20160706-54607.b\P7856.D

Injection Date:	06-Jul-2016 21:38:30	Instrument ID:	HP5973P	Operator ID:	CDC
Lims ID:	480-102539-A-17 MSD			Worklist Smp#:	23
Client ID:	4009-27I				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Instrument ID: HP5973P Start Date: 06/19/2016 21:49

Analysis Batch Number: 307413 End Date: 06/20/2016 07:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-307413/2		06/19/2016 21:49	1	P7349.D	ZB-624 (60) 0.25(mm)
IC 480-307413/4		06/19/2016 22:45	1	P7351.D	ZB-624 (60) 0.25(mm)
IC 480-307413/5		06/19/2016 23:13	1	P7352.D	ZB-624 (60) 0.25(mm)
IC 480-307413/6		06/19/2016 23:40	1	P7353.D	ZB-624 (60) 0.25(mm)
IC 480-307413/7		06/20/2016 00:07	1	P7354.D	ZB-624 (60) 0.25(mm)
ICIS 480-307413/8		06/20/2016 00:34	1	P7355.D	ZB-624 (60) 0.25(mm)
IC 480-307413/9		06/20/2016 01:02	1	P7356.D	ZB-624 (60) 0.25(mm)
IC 480-307413/10		06/20/2016 01:29	1	P7357.D	ZB-624 (60) 0.25(mm)
IC 480-307413/12		06/20/2016 02:23	1	P7359.D	ZB-624 (60) 0.25(mm)
IC 480-307413/13		06/20/2016 02:50	1	P7360.D	ZB-624 (60) 0.25(mm)
IC 480-307413/14		06/20/2016 03:18	1	P7361.D	ZB-624 (60) 0.25(mm)
IC 480-307413/15		06/20/2016 03:45	1	P7362.D	ZB-624 (60) 0.25(mm)
IC 480-307413/16		06/20/2016 04:12	1	P7363.D	ZB-624 (60) 0.25(mm)
IC 480-307413/17		06/20/2016 04:39	1	P7364.D	ZB-624 (60) 0.25(mm)
IC 480-307413/18		06/20/2016 05:07	1	P7365.D	ZB-624 (60) 0.25(mm)
MDLV 480-307413/20		06/20/2016 06:01	1		ZB-624 (60) 0.25(mm)
MDLV 480-307413/21		06/20/2016 06:28	1		ZB-624 (60) 0.25(mm)
ICV 480-307413/22		06/20/2016 06:56	1		ZB-624 (60) 0.25(mm)
ICV 480-307413/23		06/20/2016 07:23	1		ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Instrument ID: HP5973P Start Date: 07/05/2016 21:24

Analysis Batch Number: 309812 End Date: 07/06/2016 08:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-309812/1		07/05/2016 21:24	1	P7805.D	ZB-624 (60) 0.25(mm)
CCVIS 480-309812/2		07/05/2016 21:51	1	P7806.D	ZB-624 (60) 0.25(mm)
CCV 480-309812/3		07/05/2016 22:18	1	P7807.D	ZB-624 (60) 0.25(mm)
LCS 480-309812/4		07/05/2016 22:45	1	P7808.D	ZB-624 (60) 0.25(mm)
MB 480-309812/6		07/05/2016 23:40	1	P7810.D	ZB-624 (60) 0.25(mm)
ZZZZZ		07/06/2016 00:21	5		ZB-624 (60) 0.25(mm)
ZZZZZ		07/06/2016 00:48	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/06/2016 01:15	2		ZB-624 (60) 0.25(mm)
480-102539-1		07/06/2016 01:43	5	P7814.D	ZB-624 (60) 0.25(mm)
480-102539-2		07/06/2016 02:10	1	P7815.D	ZB-624 (60) 0.25(mm)
480-102539-3		07/06/2016 02:37	1	P7816.D	ZB-624 (60) 0.25(mm)
480-102539-4		07/06/2016 03:04	1	P7817.D	ZB-624 (60) 0.25(mm)
480-102539-5		07/06/2016 03:31	1	P7818.D	ZB-624 (60) 0.25(mm)
480-102539-6		07/06/2016 03:59	1	P7819.D	ZB-624 (60) 0.25(mm)
480-102539-7		07/06/2016 04:26	1	P7820.D	ZB-624 (60) 0.25(mm)
480-102539-8		07/06/2016 04:53	1	P7821.D	ZB-624 (60) 0.25(mm)
480-102539-9		07/06/2016 05:20	1	P7822.D	ZB-624 (60) 0.25(mm)
480-102539-10		07/06/2016 05:48	1	P7823.D	ZB-624 (60) 0.25(mm)
480-102539-11		07/06/2016 06:15	1	P7824.D	ZB-624 (60) 0.25(mm)
480-102539-12		07/06/2016 06:42	1	P7825.D	ZB-624 (60) 0.25(mm)
480-102539-13		07/06/2016 07:09	1	P7826.D	ZB-624 (60) 0.25(mm)
480-102539-14		07/06/2016 07:37	1	P7827.D	ZB-624 (60) 0.25(mm)
480-102539-15		07/06/2016 08:04	1	P7828.D	ZB-624 (60) 0.25(mm)
480-102539-8 MS		07/06/2016 08:31	1	P7829.D	ZB-624 (60) 0.25(mm)
480-102539-8 MSD		07/06/2016 08:59	1	P7830.D	ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Instrument ID: HP5973P Start Date: 07/06/2016 09:55

Analysis Batch Number: 309873 End Date: 07/06/2016 21:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-309873/1		07/06/2016 09:55	1	P7834.D	ZB-624 (60) 0.25(mm)
CCVIS 480-309873/2		07/06/2016 10:24	1	P7835.D	ZB-624 (60) 0.25(mm)
CCV 480-309873/3		07/06/2016 11:07	1	P7836.D	ZB-624 (60) 0.25(mm)
LCS 480-309873/4		07/06/2016 11:35	1	P7837.D	ZB-624 (60) 0.25(mm)
RL 480-309873/5		07/06/2016 12:02	1		ZB-624 (60) 0.25(mm)
MB 480-309873/6		07/06/2016 12:29	1	P7839.D	ZB-624 (60) 0.25(mm)
ZZZZZ		07/06/2016 13:35	5		ZB-624 (60) 0.25(mm)
480-102539-16		07/06/2016 14:03	1	P7841.D	ZB-624 (60) 0.25(mm)
480-102539-17		07/06/2016 14:30	1	P7842.D	ZB-624 (60) 0.25(mm)
480-102539-18		07/06/2016 14:58	1	P7843.D	ZB-624 (60) 0.25(mm)
480-102539-19		07/06/2016 15:25	1	P7844.D	ZB-624 (60) 0.25(mm)
480-102539-20		07/06/2016 15:53	20	P7845.D	ZB-624 (60) 0.25(mm)
480-102539-21		07/06/2016 16:20	25	P7846.D	ZB-624 (60) 0.25(mm)
480-102539-22		07/06/2016 16:48	1	P7847.D	ZB-624 (60) 0.25(mm)
480-102539-23		07/06/2016 17:16	1	P7848.D	ZB-624 (60) 0.25(mm)
480-102539-24		07/06/2016 17:43	1	P7849.D	ZB-624 (60) 0.25(mm)
480-102539-25		07/06/2016 19:48	1	P7850.D	ZB-624 (60) 0.25(mm)
ZZZZZ		07/06/2016 20:16	25		ZB-624 (60) 0.25(mm)
480-102539-27		07/06/2016 20:43	25	P7852.D	ZB-624 (60) 0.25(mm)
480-102539-17 MS		07/06/2016 21:10	1	P7855.D	ZB-624 (60) 0.25(mm)
480-102539-17 MSD		07/06/2016 21:38	1	P7856.D	ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-102539-1

SDG No.:

Instrument ID: HP5973P Start Date: 07/06/2016 22:09

Analysis Batch Number: 309962 End Date: 07/07/2016 04:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-309962/1		07/06/2016 22:09	1	P7857.D	ZB-624 (60) 0.25(mm)
CCVIS 480-309962/2		07/06/2016 22:36	1	P7858.D	ZB-624 (60) 0.25(mm)
CCV 480-309962/3		07/06/2016 23:03	1	P7859.D	ZB-624 (60) 0.25(mm)
LCS 480-309962/4		07/06/2016 23:30	1	P7860.D	ZB-624 (60) 0.25(mm)
MB 480-309962/6		07/07/2016 00:25	1	P7862.D	ZB-624 (60) 0.25(mm)
480-102539-26		07/07/2016 01:11	1	P7863.D	ZB-624 (60) 0.25(mm)
480-102539-28		07/07/2016 01:38	1	P7864.D	ZB-624 (60) 0.25(mm)
480-102539-29		07/07/2016 02:06	1	P7865.D	ZB-624 (60) 0.25(mm)
ZZZZZ		07/07/2016 02:33	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/07/2016 03:00	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/07/2016 03:27	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/07/2016 03:55	1		ZB-624 (60) 0.25(mm)
ZZZZZ		07/07/2016 04:22	1		ZB-624 (60) 0.25(mm)
LCSD 480-309962/10		07/07/2016 04:49	1	P7871.D	ZB-624 (60) 0.25(mm)

GC/MS VOA Worksheet

Batch Number: 480-309812
Method: 8260C
Analyst: Cwiklinski, Charles D

Date Open: Jul 05 2016 9:24PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	8260 CORP mix_00077	ADD CORP mix_00048
BFB~480-309812/1		8260C			1 uL	1 uL	HP5973P		
CCVIS~480-309812/2		8260C			5 mL	5 mL	HP5973P	12.5 uL	
CCV~480-309812/3		8260C			5 mL	5 mL	HP5973P		12.5 uL
LCS~480-309812/4		8260C			5 mL	5 mL	HP5973P	12.5 uL	
MB~480-309812/6		8260C			5 mL	5 mL	HP5973P		
480-102560-B-1	EW-7S 070116	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102563-A-3	Mixing Tank 070116	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102563-A-4	Influent 070116	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-1	WELL 1-1	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-2	4009-9	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-3	4009-10	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-4	4009-11	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-5	4009-12	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-6	4009-13	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-7	4009-13A	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-8	4009-14	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-9	4009-15	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-10	4009-16	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-11	4009-16A	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-12	4009-18	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-13	4009-19	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-14	4009-21	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-15	4009-22	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-8~MS	4009-14	8260C	T	<2 SU	5 mL	5 mL	HP5973P	12.5 uL	
480-102539-A-8~MSD	4009-14	8260C	T	<2 SU	5 mL	5 mL	HP5973P	12.5 uL	

GC/MS VOA Worksheet

Batch Number: 480-309812
Method: 8260C
Analyst: Cwiklinski, Charles D

Date Open: Jul 05 2016 9:24PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	BFB_WRK_00054	GAS CORP mix_00163	P 8260 IS_00151	P 8260 Surr._00186
BFB~480-309812/1		8260C		1 uL			
CCVIS~480-309812/2		8260C			12.5 uL	1.25 uL	1.25 uL
CCV~480-309812/3		8260C				1.25 uL	1.25 uL
LCS~480-309812/4		8260C			12.5 uL	1.25 uL	1.25 uL
MB~480-309812/6		8260C				1.25 uL	1.25 uL
480-102560-B-1	EW-7S 070116	8260C	T			1.25 uL	1.25 uL
480-102563-A-3	Mixing Tank 070116	8260C	T			1.25 uL	1.25 uL
480-102563-A-4	Influent 070116	8260C	T			1.25 uL	1.25 uL
480-102539-A-1	WELL 1-1	8260C	T			1.25 uL	1.25 uL
480-102539-A-2	4009-9	8260C	T			1.25 uL	1.25 uL
480-102539-A-3	4009-10	8260C	T			1.25 uL	1.25 uL
480-102539-A-4	4009-11	8260C	T			1.25 uL	1.25 uL
480-102539-A-5	4009-12	8260C	T			1.25 uL	1.25 uL
480-102539-A-6	4009-13	8260C	T			1.25 uL	1.25 uL
480-102539-A-7	4009-13A	8260C	T			1.25 uL	1.25 uL
480-102539-A-8	4009-14	8260C	T			1.25 uL	1.25 uL
480-102539-A-9	4009-15	8260C	T			1.25 uL	1.25 uL
480-102539-A-10	4009-16	8260C	T			1.25 uL	1.25 uL
480-102539-A-11	4009-16A	8260C	T			1.25 uL	1.25 uL
480-102539-A-12	4009-18	8260C	T			1.25 uL	1.25 uL
480-102539-A-13	4009-19	8260C	T			1.25 uL	1.25 uL
480-102539-A-14	4009-21	8260C	T			1.25 uL	1.25 uL
480-102539-A-15	4009-22	8260C	T			1.25 uL	1.25 uL
480-102539-A-8~MS	4009-14	8260C	T		12.5 uL	1.25 uL	1.25 uL
480-102539-A-8~MSD	4009-14	8260C	T		12.5 uL	1.25 uL	1.25 uL

GC/MS VOA Worksheet

Batch Number: 480-309812
Method: 8260C
Analyst: Cwiklinski, Charles D

Date Open: Jul 05 2016 9:24PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Comments / Analysis comment
BFB~480-309812/1		8260C		
CCVIS~480-309812/2		8260C		
CCV~480-309812/3		8260C		
LCS~480-309812/4		8260C		
MB~480-309812/6		8260C		
480-102560-B-1	EW-7S 070116	8260C	T	wrong sample loaded (102563-01) RA @ 5X
480-102563-A-3	Mixing Tank 070116	8260C	T	
480-102563-A-4	Influent 070116	8260C	T	target
480-102539-A-1	WELL 1-1	8260C	T	target
480-102539-A-2	4009-9	8260C	T	
480-102539-A-3	4009-10	8260C	T	
480-102539-A-4	4009-11	8260C	T	
480-102539-A-5	4009-12	8260C	T	
480-102539-A-6	4009-13	8260C	T	
480-102539-A-7	4009-13A	8260C	T	
480-102539-A-8	4009-14	8260C	T	
480-102539-A-9	4009-15	8260C	T	
480-102539-A-10	4009-16	8260C	T	
480-102539-A-11	4009-16A	8260C	T	
480-102539-A-12	4009-18	8260C	T	
480-102539-A-13	4009-19	8260C	T	
480-102539-A-14	4009-21	8260C	T	
480-102539-A-15	4009-22	8260C	T	
480-102539-A-8~MS	4009-14	8260C	T	client qc
480-102539-A-8~MSD	4009-14	8260C	T	client qc

GC/MS VOA Worksheet

Batch Number: 480-309873
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Jul 06 2016 9:55AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	8260 CORP mix_00077	ADD CORP mix_00048
BFB~480-309873/1		8260C			1 uL	1 uL	HP5973P		
CCVIS~480-309873/2		8260C			5 mL	5 mL	HP5973P	12.5 uL	
CCV~480-309873/3		8260C			5 mL	5 mL	HP5973P		12.5 uL
LCS~480-309873/4		8260C			5 mL	5 mL	HP5973P	12.5 uL	
RL~480-309873/5					5 mL	5 mL	HP5973P	1 uL	
MB~480-309873/6		8260C			5 mL	5 mL	HP5973P		
480-102560-B-1	EW-7S 070116	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-16	4009-27S	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-17	4009-27I	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-18	4009-27D	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-19	4009-28	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-20	4009-29S	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-21	4009-29I	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-22	4009-29D	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-23	4009-30	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-24	4009-30A	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-25	4009-11A	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-26	DUP-1_20160630	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-27	DUP-2_20160630	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-17~MS	4009-27I	8260C	T	<2 SU	5 mL	5 mL	HP5973P	12.5 uL	
480-102539-A-17~MSD	4009-27I	8260C	T	<2 SU	5 mL	5 mL	HP5973P	12.5 uL	

GC/MS VOA Worksheet

Batch Number: 480-309873
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Jul 06 2016 9:55AM
Batch End:

Lab ID	Client ID	Method Chain	Basis	BFB_WRK_00055	GAS CORP mix_00164	P 8260 IS_00151	P 8260 Surr._00186
BFB~480-309873/1		8260C		1 uL			
CCVIS~480-309873/2		8260C			12.5 uL	1.25 uL	1.25 uL
CCV~480-309873/3		8260C				1.25 uL	1.25 uL
LCS~480-309873/4		8260C			12.5 uL	1.25 uL	1.25 uL
RL~480-309873/5					1 uL	1.25 uL	1.25 uL
MB~480-309873/6		8260C				1.25 uL	1.25 uL
480-102560-B-1	EW-7S 070116	8260C	T			1.25 uL	1.25 uL
480-102539-A-16	4009-27S	8260C	T			1.25 uL	1.25 uL
480-102539-A-17	4009-27I	8260C	T			1.25 uL	1.25 uL
480-102539-A-18	4009-27D	8260C	T			1.25 uL	1.25 uL
480-102539-A-19	4009-28	8260C	T			1.25 uL	1.25 uL
480-102539-A-20	4009-29S	8260C	T			1.25 uL	1.25 uL
480-102539-A-21	4009-29I	8260C	T			1.25 uL	1.25 uL
480-102539-A-22	4009-29D	8260C	T			1.25 uL	1.25 uL
480-102539-A-23	4009-30	8260C	T			1.25 uL	1.25 uL
480-102539-A-24	4009-30A	8260C	T			1.25 uL	1.25 uL
480-102539-A-25	4009-11A	8260C	T			1.25 uL	1.25 uL
480-102539-A-26	DUP-1_20160630	8260C	T			1.25 uL	1.25 uL
480-102539-A-27	DUP-2_20160630	8260C	T			1.25 uL	1.25 uL
480-102539-A-17~MS	4009-27I	8260C	T		12.5 uL	1.25 uL	1.25 uL
480-102539-A-17~MSD	4009-27I	8260C	T		12.5 uL	1.25 uL	1.25 uL

GC/MS VOA Worksheet

Batch Number: 480-309873
Method: 8260C
Analyst: Youngman, Shawna M

Date Open: Jul 06 2016 9:55AM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
BFB~480-309873/1		8260C		
CCVIS~480-309873/2		8260C		
CCV~480-309873/3		8260C		
LCS~480-309873/4		8260C		
RL~480-309873/5				
MB~480-309873/6		8260C		
480-102560-B-1	EW-7S 070116	8260C	T	
480-102539-A-16	4009-27S	8260C	T	
480-102539-A-17	4009-27I	8260C	T	
480-102539-A-18	4009-27D	8260C	T	
480-102539-A-19	4009-28	8260C	T	
480-102539-A-20	4009-29S	8260C	T	
480-102539-A-21	4009-29I	8260C	T	
480-102539-A-22	4009-29D	8260C	T	
480-102539-A-23	4009-30	8260C	T	
480-102539-A-24	4009-30A	8260C	T	
480-102539-A-25	4009-11A	8260C	T	
480-102539-A-26	DUP-1_20160630	8260C	T	A lower dilution is needed.
480-102539-A-27	DUP-2_20160630	8260C	T	
480-102539-A-17~MS	4009-27I	8260C	T	
480-102539-A-17~MSD	4009-27I	8260C	T	

GC/MS VOA Worksheet

Batch Number: 480-309962
Method: 8260C
Analyst: Cwiklinski, Charles D

Date Open: Jul 06 2016 10:09PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	8260 CORP mix_00077	ADD CORP mix_00048
BFB~480-309962/1		8260C			1 uL	1 uL	HP5973P		
CCVIS~480-309962/2		8260C			5 mL	5 mL	HP5973P	12.5 uL	
CCV~480-309962/3		8260C			5 mL	5 mL	HP5973P		12.5 uL
LCS~480-309962/4		8260C			5 mL	5 mL	HP5973P	12.5 uL	
MB~480-309962/6		8260C			5 mL	5 mL	HP5973P		
480-102539-B-26	DUP-1_20160630	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-28	FIELD BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102539-A-29	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
LCSD~480-309962/10		8260C			5 mL	5 mL	HP5973P	12.5 uL	
480-102639-I-1	NES-4	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102639-I-2	NES-5	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102639-I-3	NES-3	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102639-I-4	NES-8	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-102639-I-5	NES-2	8260C	T	<2 SU	5 mL	5 mL	HP5973P		

GC/MS VOA Worksheet

Batch Number: 480-309962
Method: 8260C
Analyst: Cwiklinski, Charles D

Date Open: Jul 06 2016 10:09PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	BFB_WRK_00055	GAS CORP mix_00164	P 8260 IS_00151	P 8260 IS_00152	P 8260 Surr._00186
BFB~480-309962/1		8260C		1 uL				
CCVIS~480-309962/2		8260C			12.5 uL	1.25 uL		1.25 uL
CCV~480-309962/3		8260C					1.25 uL	1.25 uL
LCS~480-309962/4		8260C			12.5 uL		1.25 uL	1.25 uL
MB~480-309962/6		8260C					1.25 uL	1.25 uL
480-102539-B-26	DUP-1_20160630	8260C	T				1.25 uL	1.25 uL
480-102539-A-28	FIELD BLANK	8260C	T				1.25 uL	1.25 uL
480-102539-A-29	TRIP BLANK	8260C	T				1.25 uL	1.25 uL
LCSD~480-309962/10		8260C			12.5 uL		1.25 uL	1.25 uL
480-102639-I-1	NES-4	8260C	T				1.25 uL	1.25 uL
480-102639-I-2	NES-5	8260C	T				1.25 uL	1.25 uL
480-102639-I-3	NES-3	8260C	T				1.25 uL	1.25 uL
480-102639-I-4	NES-8	8260C	T				1.25 uL	1.25 uL
480-102639-I-5	NES-2	8260C	T				1.25 uL	1.25 uL

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-102539 Chain of Custody

Client Information	Sampler: Bree Quaglieri	Lab PM: Stone, Judy L	COC No: 480-84033-18519.1
Client Contact: Ms. Katie Bidwell	Phone: (518)250-7300	E-Mail: judy.stone@testamericainc.com	Page: Page 1 of 4
Company: ARCADIS U.S. Inc		Analysis Req	Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:		Preservation Codes:
City: Clifton Park	TAT Requested (days): Standard		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, 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)
State, Zip: NY, 12065			Other:
Phone: 518-250-7300(Tel)	PO #: Project 00266401.0000		
Email: katie.bidwell@arcadis-us.com	WO #: Contract D007618		
Project Name: NYSDEC-Standby VESTAL	Project #: 48005198		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
Preservation Code:							A		
~~Well 1-2A~~	—	—	—	Water	-	-	-		
~~Well 1-3~~	—	—	—	Water	-	-	-		
Well 1-1	6/30/16	0930	Grab	Water	N	N	3		
4009-9		1335		Water	N	N	3		
4009-10		1340		Water	N	N	3		
4009-11		1357		Water	N	N	3		
4009-12		1210		Water	N	N	3		
4009-13		1305		Water	N	N	3		
4009-13A		1310		Water	N	N	3		
4009-14 (MS/MSD)		1015		Water	N	Y	3		MS/MSD
4009-15	6/30/16	1140	G	Water	N	N	3		

Albany
480501

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 7/1/16	0815	Company: Arcadis	Received by:	Date/Time: 7/1/16	0840	Company: TA-ALB
Relinquished by:	Date/Time: 7/1/16	1800	Company: TA ALB	Received by:	Date/Time: 7-2-16	0100	Company: TAB
Relinquished by:	Date/Time:		Company:	Received by:	Date/Time:		Company:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1 #1

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07/08/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Bree Quaglieri	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-84033-18519.2
Client Contact: Ms. Katie Bidwell	Phone: (518) 250-7300	E-Mail: judy.stone@testamericainc.com		Page: Page 2 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested: Standard			
City: Clifton Park	TAT Requested (days):			
State, Zip: NY, 12065				
Phone: 518-250-7300(Tel)	PO #: Project 00266401.0000			
Email: katie.bidwell@arcadis-us.com	WO #: Contract D007618			
Project Name: NYSDEC-Standby VESTAL	Project #: 48005198			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
		Preservation Code:			N	N	A		
4009-16	6/30/16	1120	G	Water	N	N	3		
4009-16A		1125		Water	N	N	3		
4009-18		1040		Water	N	N	3		
4009-19		1100		Water	N	N	3		
4009-21		1050		Water	N	N	3		
4009-22		1010		Water	N	N	3		
4009-27S		1300		Water	N	N	3		
4009-27I (MS/MSD)		1255		Water	N	X	3		MS/MSD
4009-27D		1250		Water	N	N	3		
4009-28		0955		Water	N	N	3		
4009-29S	6/30/16	1230	G	Water	N	N	3		

Albany
480501

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/30/16 0815	Arcadis	[signature]	7/1/16 0840	TA-ALB
[signature]	7/1/16 1800	TA-ALB	[signature]	7-2-16 0100	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.1 #1

TestAmerica Buffalo **480501-Albany**
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Bree Quaglieri	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-84033-18519.3
Client Contact: Ms. Katie Bidwell	Phone: (518) 250-7300	E-Mail: judy.stone@testamericainc.com		Page: Page 3 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065	PO #: Project 00266401.0000			
Phone: 518-250-7300(Tel)	WO #: Contract D007618			
Email: katie.bidwell@arcadis-us.com	Project #: 48005198			
Project Name: NYSDEC-Standby VESTAL	SSOW#:			
Site:				

Analysis Requested

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, 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)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
4009-29I	6/30/16	1235	G	Water	N	N	3		
4009-29D		1240		Water	N	N	3		
4009-30		1135		Water	N	N	3		
4009-30A		1130		Water	N	N	3		
4009-11A		1355		Water	N	N	3		
DUP-1_20160630		—		Water	N	N	3		Duplicate
DUP-2_20160630		—		Water	N	Y	3		Duplicate
MS 4009-14		1015		Water	N	Y	3		MS/MSD
MSD 4009-14		1015		Water	N	Y	3		MS/MSD
MS 4009-27I		1255		Water	N	Y	3		MS/MSD
MSD 4009-27I	6/30/16	1255	G	Water	N	Y	3		MS/MSD

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6/30/16 0815	Arcadis		7/1/16 0840	TA-ALB
2		7/1/16 1800	TA-ALB		7-2-16 0100	TAB
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1 #1

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Bree Quaglieri	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-84033-18519.4
Client Contact: Ms. Katie Bidwell	Phone: (518)250-7300	E-Mail: judy.stone@testamericainc.com		Page: Page 4 of 4
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065	PO #: Project 00266401.0000			
Phone: 518-250-7300(Tel)	WO #: Contract D007618			
Email: katie.bidwell@arcadis-us.com	Project #: 48005198			
Project Name: NYSDEC-Standby VESTAL	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
FIELD BLANK	6/30/16	0935	G	Water	N		3		Field Blank
Trip Blank	—	—	—	Water	N		2		Trip Blank
				Water					
				Water					

7/1/16

Albany

480501

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		7/1/16 0815	Arcadis		7/1/16 0840	TA-ALB
2		7/1/16 1800	TA-ALB	Will	7-2-16 0100	TAB
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.1 #1

07/08/2016

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-102539-1

Login Number: 102539
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

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 (Excluding tests with immediate HTs)..	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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-98967-1
Client Project/Site: NYSDEC-Standby VESTAL

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, New York 12065

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Authorized for release by:
5/6/2016 10:30:59 AM
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Table of Contents

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)

Job ID: 480-98967-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-98967-1

Receipt
The samples were received on 4/25/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

Client Sample ID: WELL 1-2A — **Lab Sample ID: 480-98967-1**

No Detections.

Client Sample ID: WELL 1-3 — **Lab Sample ID: 480-98967-2**

No Detections.

Client Sample ID: TRIP BLANK — **Lab Sample ID: 480-98967-3**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

Client Sample ID: WELL 1-2A
Date Collected: 04/22/16 08:30
Date Received: 04/25/16 09:30

Lab Sample ID: 480-98967-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			05/04/16 06:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/04/16 06:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/04/16 06:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/04/16 06:13	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/04/16 06:13	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/04/16 06:13	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/04/16 06:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/04/16 06:13	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/04/16 06:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/04/16 06:13	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/04/16 06:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/04/16 06:13	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/04/16 06:13	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/04/16 06:13	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/04/16 06:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/04/16 06:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/04/16 06:13	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/04/16 06:13	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/04/16 06:13	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/04/16 06:13	1
Acetone	10	U	10	3.0	ug/L			05/04/16 06:13	1
Benzene	1.0	U	1.0	0.41	ug/L			05/04/16 06:13	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/04/16 06:13	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/04/16 06:13	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/04/16 06:13	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/04/16 06:13	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/04/16 06:13	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/04/16 06:13	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/04/16 06:13	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/04/16 06:13	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/04/16 06:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/04/16 06:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/04/16 06:13	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/04/16 06:13	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/04/16 06:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/04/16 06:13	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/04/16 06:13	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/04/16 06:13	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/04/16 06:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/04/16 06:13	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/04/16 06:13	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/04/16 06:13	1
Styrene	1.0	U	1.0	0.73	ug/L			05/04/16 06:13	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/04/16 06:13	1
Toluene	1.0	U	1.0	0.51	ug/L			05/04/16 06:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/04/16 06:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/04/16 06:13	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/04/16 06:13	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/04/16 06:13	1

Client Sample ID: WELL 1-2A — **Lab Sample ID: 480-98967-1**
Date Collected: 04/22/16 08:30 — **Matrix: Water**
Date Received: 04/25/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/04/16 06:13	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/04/16 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*05/04/16 06:13*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*05/04/16 06:13*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*05/04/16 06:13*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*		*05/04/16 06:13*	*1*

Client Sample ID: WELL 1-3 — **Lab Sample ID: 480-98967-2**
Date Collected: 04/22/16 08:40 — **Matrix: Water**
Date Received: 04/25/16 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			05/04/16 06:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/04/16 06:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/04/16 06:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/04/16 06:40	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/04/16 06:40	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/04/16 06:40	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/04/16 06:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/04/16 06:40	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/04/16 06:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/04/16 06:40	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/04/16 06:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/04/16 06:40	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/04/16 06:40	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/04/16 06:40	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/04/16 06:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/04/16 06:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/04/16 06:40	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/04/16 06:40	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/04/16 06:40	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/04/16 06:40	1
Acetone	10	U	10	3.0	ug/L			05/04/16 06:40	1
Benzene	1.0	U	1.0	0.41	ug/L			05/04/16 06:40	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/04/16 06:40	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/04/16 06:40	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/04/16 06:40	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/04/16 06:40	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/04/16 06:40	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/04/16 06:40	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/04/16 06:40	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/04/16 06:40	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/04/16 06:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/04/16 06:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/04/16 06:40	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/04/16 06:40	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/04/16 06:40	1

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-98967-2

Date Collected: 04/22/16 08:40

Matrix: Water

Date Received: 04/25/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/04/16 06:40	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/04/16 06:40	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/04/16 06:40	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/04/16 06:40	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/04/16 06:40	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/04/16 06:40	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/04/16 06:40	1
Styrene	1.0	U	1.0	0.73	ug/L			05/04/16 06:40	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/04/16 06:40	1
Toluene	1.0	U	1.0	0.51	ug/L			05/04/16 06:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/04/16 06:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/04/16 06:40	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/04/16 06:40	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/04/16 06:40	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/04/16 06:40	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/04/16 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*66 - 137*		*05/04/16 06:40*	*1*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*		*05/04/16 06:40*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*05/04/16 06:40*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*		*05/04/16 06:40*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-98967-3

Date Collected: 04/22/16 00:00

Matrix: Water

Date Received: 04/25/16 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			05/04/16 07:06	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/04/16 07:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/04/16 07:06	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/04/16 07:06	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/04/16 07:06	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/04/16 07:06	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/04/16 07:06	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/04/16 07:06	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/04/16 07:06	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/04/16 07:06	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/04/16 07:06	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/04/16 07:06	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/04/16 07:06	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/04/16 07:06	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/04/16 07:06	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/04/16 07:06	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/04/16 07:06	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/04/16 07:06	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/04/16 07:06	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/04/16 07:06	1
Acetone	10	U	10	3.0	ug/L			05/04/16 07:06	1

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

Client Sample ID: TRIP BLANK
Date Collected: 04/22/16 00:00
Date Received: 04/25/16 09:30

Lab Sample ID: 480-98967-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/04/16 07:06	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/04/16 07:06	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/04/16 07:06	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/04/16 07:06	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/04/16 07:06	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/04/16 07:06	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/04/16 07:06	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/04/16 07:06	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/04/16 07:06	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/04/16 07:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/04/16 07:06	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/04/16 07:06	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/04/16 07:06	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/04/16 07:06	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/04/16 07:06	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/04/16 07:06	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/04/16 07:06	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/04/16 07:06	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/04/16 07:06	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/04/16 07:06	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/04/16 07:06	1
Styrene	1.0	U	1.0	0.73	ug/L			05/04/16 07:06	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/04/16 07:06	1
Toluene	1.0	U	1.0	0.51	ug/L			05/04/16 07:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/04/16 07:06	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/04/16 07:06	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/04/16 07:06	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/04/16 07:06	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/04/16 07:06	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/04/16 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*66 - 137*		*05/04/16 07:06*	*1*
4-Bromofluorobenzene (Surr)	*86*		*73 - 120*		*05/04/16 07:06*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*		*05/04/16 07:06*	*1*
Toluene-d8 (Surr)	*92*		*71 - 126*		*05/04/16 07:06*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(60-140)	(71-126)
480-98967-1	WELL 1-2A	100	88	101	94
480-98967-2	WELL 1-3	103	90	100	95
480-98967-3	TRIP BLANK	99	86	99	92
LCS 480-299734/5	Lab Control Sample	95	102	93	99
MB 480-299734/7	Method Blank	98	91	95	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-299734/7
Matrix: Water
Analysis Batch: 299734

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	1.0	U	1.0	0.82	ug/L			05/03/16 23:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/03/16 23:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/03/16 23:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/03/16 23:02	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/03/16 23:02	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/03/16 23:02	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/03/16 23:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/03/16 23:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/03/16 23:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/03/16 23:02	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/03/16 23:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/03/16 23:02	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/03/16 23:02	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/03/16 23:02	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/03/16 23:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/03/16 23:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/03/16 23:02	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/03/16 23:02	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/03/16 23:02	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/03/16 23:02	1
Acetone	10	U	10	3.0	ug/L			05/03/16 23:02	1
Benzene	1.0	U	1.0	0.41	ug/L			05/03/16 23:02	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/03/16 23:02	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/03/16 23:02	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/03/16 23:02	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/03/16 23:02	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/03/16 23:02	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/03/16 23:02	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/03/16 23:02	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/03/16 23:02	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/03/16 23:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/03/16 23:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/03/16 23:02	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/03/16 23:02	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/03/16 23:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/03/16 23:02	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/03/16 23:02	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/03/16 23:02	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/03/16 23:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/03/16 23:02	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/03/16 23:02	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/03/16 23:02	1
Styrene	1.0	U	1.0	0.73	ug/L			05/03/16 23:02	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/03/16 23:02	1
Toluene	1.0	U	1.0	0.51	ug/L			05/03/16 23:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/03/16 23:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/03/16 23:02	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/03/16 23:02	1

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

Lab Sample ID: MB 480-299734/7
Matrix: Water
Analysis Batch: 299734

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/03/16 23:02	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/03/16 23:02	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/03/16 23:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*66 - 137*		*05/03/16 23:02*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*05/03/16 23:02*	*1*
Dibromofluoromethane (Surr)	*95*		*60 - 140*		*05/03/16 23:02*	*1*
Toluene-d8 (Surr)	*97*		*71 - 126*		*05/03/16 23:02*	*1*

Lab Sample ID: LCS 480-299734/5
Matrix: Water
Analysis Batch: 299734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 126
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	19.8		ug/L		79	52 - 148
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	76 - 122
1,1-Dichloroethane	25.0	23.5		ug/L		94	71 - 129
1,1-Dichloroethene	25.0	24.8		ug/L		99	58 - 121
1,2,4-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 122
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	24.5		ug/L		98	56 - 134
1,2-Dibromoethane	25.0	26.8		ug/L		107	77 - 120
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	23.0		ug/L		92	75 - 127
1,2-Dichloropropane	25.0	24.3		ug/L		97	76 - 120
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		99	77 - 121
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	75 - 120
2-Butanone (MEK)	125	129		ug/L		103	57 - 140
2-Hexanone	125	136		ug/L		109	65 - 127
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	71 - 125
Acetone	125	129		ug/L		103	56 - 142
Benzene	25.0	24.2		ug/L		97	71 - 124
Bromodichloromethane	25.0	24.2		ug/L		97	80 - 122
Bromoform	25.0	24.8		ug/L		99	52 - 132
Bromomethane	25.0	26.4		ug/L		106	55 - 144
Carbon disulfide	25.0	21.5		ug/L		86	59 - 134
Carbon tetrachloride	25.0	22.0		ug/L		88	72 - 134
Chlorobenzene	25.0	25.1		ug/L		100	72 - 120
Chloroethane	25.0	26.1		ug/L		104	69 - 136
Chloroform	25.0	23.5		ug/L		94	73 - 127
Chloromethane	25.0	22.0		ug/L		88	68 - 124
cis-1,2-Dichloroethene	25.0	22.9		ug/L		92	74 - 124
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	74 - 124

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

Lab Sample ID: LCS 480-299734/5
Matrix: Water
Analysis Batch: 299734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	25.0	22.3		ug/L		89	59 - 135
Dibromochloromethane	25.0	24.9		ug/L		100	75 - 125
Dichlorodifluoromethane	25.0	22.0		ug/L		88	59 - 135
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
Isopropylbenzene	25.0	24.4		ug/L		97	77 - 122
Methyl acetate	125	107		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	23.1		ug/L		93	64 - 127
Methylcyclohexane	25.0	22.1		ug/L		88	61 - 138
Methylene Chloride	25.0	24.9		ug/L		100	57 - 132
Styrene	25.0	25.7		ug/L		103	70 - 130
Tetrachloroethene	25.0	24.1		ug/L		96	74 - 122
Toluene	25.0	24.8		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	22.2		ug/L		89	73 - 127
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	72 - 123
Trichloroethene	25.0	22.6		ug/L		90	74 - 123
Trichlorofluoromethane	25.0	26.3		ug/L		105	62 - 152
Vinyl chloride	25.0	23.2		ug/L		93	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*66 - 137*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*93*		*60 - 140*
Toluene-d8 (Surr)	*99*		*71 - 126*

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

GC/MS VOA

Analysis Batch: 299734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-98967-1	WELL 1-2A	Total/NA	Water	8260C	
480-98967-2	WELL 1-3	Total/NA	Water	8260C	
480-98967-3	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-299734/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-299734/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-98967-1

Date Collected: 04/22/16 08:30

Matrix: Water

Date Received: 04/25/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	299734	05/04/16 06:13	SWO	TAL BUF

Client Sample ID: WELL 1-3

Lab Sample ID: 480-98967-2

Date Collected: 04/22/16 08:40

Matrix: Water

Date Received: 04/25/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	299734	05/04/16 06:40	SWO	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-98967-3

Date Collected: 04/22/16 00:00

Matrix: Water

Date Received: 04/25/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	299734	05/04/16 07:06	SWO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

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: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-98967-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-98967-1	WELL 1-2A	Water	04/22/16 08:30	04/25/16 09:30
480-98967-2	WELL 1-3	Water	04/22/16 08:40	04/25/16 09:30
480-98967-3	TRIP BLANK	Water	04/22/16 00:00	04/25/16 09:30

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Whalen	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-72299-18034.1
Client Contact: Ms. Katie Bidwell	Phone: 315-436-5041	E-Mail: judy.stone@testamericainc.com		Page: Page 1 of 1
Company: ARCADIS U.S. Inc		**Analysis Requested**		Job #:
Address: 855 Route 146 Suite 210	**Due Date Requested:**			**Preservation Codes:**
City: Clifton Park	**TAT Requested (days):** STD			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, 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)
State, Zip: NY, 12065				
Phone: 518-250-7300(Tel)	PO #: Project 00266401.0000			
Email: katie.bidwell@arcadis-us.com	WO #: Contract D007618			
Project Name: NYSDEC-Standby VESTAL	Project #: 48005198			
Site:	SSOW#:			**Other:**

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	X	
Well 1-2A	4-22-16	0830	G	Water			X		
Well 1-3	4-22-16	0840	G	Water			X		
Trip Blank 042216	4-22-16	-	-	Water			X		

480-98967 Chain of Custody

Possible Hazard Identification
☒ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☒ *Disposal By Lab* ☐ *Archive For ________ Months*

Deliverable Requested: I, (II), III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by: L. Whalen	Date/Time: 4-22-16 0900	Company	Received by: [signature]	Date/Time: 4/25/16 0930	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: △ Yes △ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 5.0 #1		

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-98967-1

Login Number: 98967

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 (Excluding tests with immediate HTs)..	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.	False	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-100725-1
Client Project/Site: NYSDEC-Standby VESTAL

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, New York 12065

Attn: Jeremy Wyckoff

Judy Stone

Authorized for release by:
5/31/2016 4:47:49 PM

Judy Stone, Senior Project Manager
(484)685-0868
judy.stone@testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)

Job ID: 480-100725-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-100725-1

Receipt
The samples were received on 5/26/2016 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-100725-1

Client Sample ID: WELL 1-2A — Lab Sample ID: 480-100725-1

No Detections.

Client Sample ID: WELL 1-3 — Lab Sample ID: 480-100725-2

No Detections.

Client Sample ID: TRIP BLANK 052316 — Lab Sample ID: 480-100725-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-100725-1

Client Sample ID: WELL 1-2A
Date Collected: 05/23/16 10:10
Date Received: 05/26/16 08:20

Lab Sample ID: 480-100725-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			05/31/16 12:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/31/16 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/31/16 12:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/31/16 12:26	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/31/16 12:26	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/31/16 12:26	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/31/16 12:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/31/16 12:26	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/31/16 12:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/31/16 12:26	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/31/16 12:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/31/16 12:26	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/31/16 12:26	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/31/16 12:26	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/31/16 12:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/31/16 12:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/31/16 12:26	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/31/16 12:26	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/31/16 12:26	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/31/16 12:26	1
Acetone	10	U	10	3.0	ug/L			05/31/16 12:26	1
Benzene	1.0	U	1.0	0.41	ug/L			05/31/16 12:26	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/31/16 12:26	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/31/16 12:26	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/31/16 12:26	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/31/16 12:26	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/31/16 12:26	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/31/16 12:26	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/31/16 12:26	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/31/16 12:26	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/31/16 12:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/31/16 12:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/31/16 12:26	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/31/16 12:26	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/31/16 12:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/31/16 12:26	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/31/16 12:26	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/31/16 12:26	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/31/16 12:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/31/16 12:26	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/31/16 12:26	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/31/16 12:26	1
Styrene	1.0	U	1.0	0.73	ug/L			05/31/16 12:26	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/31/16 12:26	1
Toluene	1.0	U	1.0	0.51	ug/L			05/31/16 12:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/31/16 12:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/31/16 12:26	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/31/16 12:26	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/31/16 12:26	1

Client Sample ID: WELL 1-2A
Date Collected: 05/23/16 10:10
Date Received: 05/26/16 08:20

Lab Sample ID: 480-100725-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/31/16 12:26	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/31/16 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*66 - 137*		*05/31/16 12:26*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*05/31/16 12:26*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*05/31/16 12:26*	*1*
Toluene-d8 (Surr)	*102*		*71 - 126*		*05/31/16 12:26*	*1*

Client Sample ID: WELL 1-3
Date Collected: 05/23/16 10:00
Date Received: 05/26/16 08:20

Lab Sample ID: 480-100725-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			05/31/16 12:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/31/16 12:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/31/16 12:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/31/16 12:49	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/31/16 12:49	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/31/16 12:49	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/31/16 12:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/31/16 12:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/31/16 12:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/31/16 12:49	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/31/16 12:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/31/16 12:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/31/16 12:49	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/31/16 12:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/31/16 12:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/31/16 12:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/31/16 12:49	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/31/16 12:49	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/31/16 12:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/31/16 12:49	1
Acetone	10	U	10	3.0	ug/L			05/31/16 12:49	1
Benzene	1.0	U	1.0	0.41	ug/L			05/31/16 12:49	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/31/16 12:49	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/31/16 12:49	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/31/16 12:49	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/31/16 12:49	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/31/16 12:49	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/31/16 12:49	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/31/16 12:49	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/31/16 12:49	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/31/16 12:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/31/16 12:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/31/16 12:49	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/31/16 12:49	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/31/16 12:49	1

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-100725-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-100725-2

Date Collected: 05/23/16 10:00

Matrix: Water

Date Received: 05/26/16 08:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/31/16 12:49	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/31/16 12:49	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/31/16 12:49	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/31/16 12:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/31/16 12:49	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/31/16 12:49	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/31/16 12:49	1
Styrene	1.0	U	1.0	0.73	ug/L			05/31/16 12:49	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/31/16 12:49	1
Toluene	1.0	U	1.0	0.51	ug/L			05/31/16 12:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/31/16 12:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/31/16 12:49	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/31/16 12:49	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/31/16 12:49	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/31/16 12:49	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/31/16 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*66 - 137*		*05/31/16 12:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*05/31/16 12:49*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*05/31/16 12:49*	*1*
Toluene-d8 (Surr)	*101*		*71 - 126*		*05/31/16 12:49*	*1*

Client Sample ID: TRIP BLANK 052316

Lab Sample ID: 480-100725-3

Date Collected: 05/23/16 00:00

Matrix: Water

Date Received: 05/26/16 08:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			05/31/16 13:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/31/16 13:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/31/16 13:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/31/16 13:12	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/31/16 13:12	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/31/16 13:12	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/31/16 13:12	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/31/16 13:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/31/16 13:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/31/16 13:12	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/31/16 13:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/31/16 13:12	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/31/16 13:12	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/31/16 13:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/31/16 13:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/31/16 13:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/31/16 13:12	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/31/16 13:12	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/31/16 13:12	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/31/16 13:12	1
Acetone	10	U	10	3.0	ug/L			05/31/16 13:12	1

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-100725-1

Client Sample ID: TRIP BLANK 052316
Date Collected: 05/23/16 00:00
Date Received: 05/26/16 08:20

Lab Sample ID: 480-100725-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			05/31/16 13:12	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/31/16 13:12	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/31/16 13:12	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/31/16 13:12	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/31/16 13:12	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/31/16 13:12	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/31/16 13:12	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/31/16 13:12	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/31/16 13:12	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/31/16 13:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/31/16 13:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/31/16 13:12	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/31/16 13:12	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/31/16 13:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/31/16 13:12	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/31/16 13:12	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/31/16 13:12	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/31/16 13:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/31/16 13:12	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/31/16 13:12	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/31/16 13:12	1
Styrene	1.0	U	1.0	0.73	ug/L			05/31/16 13:12	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/31/16 13:12	1
Toluene	1.0	U	1.0	0.51	ug/L			05/31/16 13:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/31/16 13:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/31/16 13:12	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/31/16 13:12	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/31/16 13:12	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/31/16 13:12	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/31/16 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*66 - 137*		*05/31/16 13:12*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*05/31/16 13:12*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 140*		*05/31/16 13:12*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*05/31/16 13:12*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-100725-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(60-140)	(71-126)
480-100725-1	WELL 1-2A	92	97	100	102
480-100725-2	WELL 1-3	90	95	100	101
480-100725-3	TRIP BLANK 052316	89	94	96	99
LCS 480-304305/8	Lab Control Sample	91	100	92	102
MB 480-304305/7	Method Blank	96	98	103	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-304305/7
Matrix: Water
Analysis Batch: 304305

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	1.0	U	1.0	0.82	ug/L			05/31/16 11:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/31/16 11:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/31/16 11:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/31/16 11:07	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/31/16 11:07	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/31/16 11:07	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/31/16 11:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/31/16 11:07	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/31/16 11:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/31/16 11:07	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/31/16 11:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/31/16 11:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/31/16 11:07	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/31/16 11:07	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/31/16 11:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/31/16 11:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/31/16 11:07	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/31/16 11:07	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/31/16 11:07	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/31/16 11:07	1
Acetone	10	U	10	3.0	ug/L			05/31/16 11:07	1
Benzene	1.0	U	1.0	0.41	ug/L			05/31/16 11:07	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/31/16 11:07	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/31/16 11:07	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/31/16 11:07	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/31/16 11:07	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/31/16 11:07	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/31/16 11:07	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/31/16 11:07	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/31/16 11:07	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/31/16 11:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/31/16 11:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/31/16 11:07	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/31/16 11:07	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/31/16 11:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/31/16 11:07	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/31/16 11:07	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/31/16 11:07	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/31/16 11:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/31/16 11:07	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/31/16 11:07	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/31/16 11:07	1
Styrene	1.0	U	1.0	0.73	ug/L			05/31/16 11:07	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/31/16 11:07	1
Toluene	1.0	U	1.0	0.51	ug/L			05/31/16 11:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/31/16 11:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/31/16 11:07	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/31/16 11:07	1

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

Lab Sample ID: MB 480-304305/7
Matrix: Water
Analysis Batch: 304305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/31/16 11:07	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/31/16 11:07	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/31/16 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*66 - 137*		*05/31/16 11:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*05/31/16 11:07*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*		*05/31/16 11:07*	*1*
Toluene-d8 (Surr)	*104*		*71 - 126*		*05/31/16 11:07*	*1*

Lab Sample ID: LCS 480-304305/8
Matrix: Water
Analysis Batch: 304305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	70 - 126
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.8		ug/L		95	52 - 148
1,1,2-Trichloroethane	25.0	24.0		ug/L		96	76 - 122
1,1-Dichloroethane	25.0	22.8		ug/L		91	71 - 129
1,1-Dichloroethene	25.0	24.0		ug/L		96	58 - 121
1,2,3-Trimethylbenzene	25.0	24.7		ug/L		99	67 - 138
1,2,4-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 122
1,2,4-Trimethylbenzene	25.0	25.3		ug/L		101	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.2		ug/L		93	56 - 134
1,2-Dibromoethane	25.0	23.4		ug/L		94	77 - 120
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	20.5		ug/L		82	75 - 127
1,2-Dichloropropane	25.0	21.2		ug/L		85	76 - 120
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	77 - 121
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	75 - 120
2-Butanone (MEK)	125	100		ug/L		80	57 - 140
2-Hexanone	125	112		ug/L		90	65 - 127
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	71 - 125
Acetone	125	96.4		ug/L		77	56 - 142
Benzene	25.0	23.7		ug/L		95	71 - 124
Bromodichloromethane	25.0	22.3		ug/L		89	80 - 122
Bromoform	25.0	25.9		ug/L		103	52 - 132
Bromomethane	25.0	23.5		ug/L		94	55 - 144
Carbon disulfide	25.0	22.8		ug/L		91	59 - 134
Carbon tetrachloride	25.0	25.7		ug/L		103	72 - 134
Chlorobenzene	25.0	25.1		ug/L		101	72 - 120
Chloroethane	25.0	25.5		ug/L		102	69 - 136
Chloroform	25.0	22.8		ug/L		91	73 - 127
Chloromethane	25.0	19.4		ug/L		77	68 - 124
cis-1,2-Dichloroethene	25.0	22.3		ug/L		89	74 - 124

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

Lab Sample ID: LCS 480-304305/8
Matrix: Water
Analysis Batch: 304305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	25.0	22.3		ug/L		89	74 - 124
Cyclohexane	25.0	23.6		ug/L		94	59 - 135
Dibromochloromethane	25.0	25.3		ug/L		101	75 - 125
Dichlorodifluoromethane	25.0	19.3		ug/L		77	59 - 135
Ethylbenzene	25.0	24.5		ug/L		98	77 - 123
Isopropylbenzene	25.0	24.6		ug/L		98	77 - 122
Methyl acetate	125	112		ug/L		90	74 - 133
Methyl tert-butyl ether	25.0	20.0		ug/L		80	64 - 127
Methylcyclohexane	25.0	26.0		ug/L		104	61 - 138
Methylene Chloride	25.0	22.3		ug/L		89	57 - 132
Styrene	25.0	23.8		ug/L		95	70 - 130
Tetrachloroethene	25.0	27.0		ug/L		108	74 - 122
Toluene	25.0	24.8		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	73 - 127
trans-1,3-Dichloropropene	25.0	22.3		ug/L		89	72 - 123
Trichloroethene	25.0	24.0		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	27.1		ug/L		108	62 - 152
Vinyl chloride	25.0	22.8		ug/L		91	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*66 - 137*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*92*		*60 - 140*
Toluene-d8 (Surr)	*102*		*71 - 126*

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-100725-1

GC/MS VOA

Analysis Batch: 304305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-100725-1	WELL 1-2A	Total/NA	Water	8260C	
480-100725-2	WELL 1-3	Total/NA	Water	8260C	
480-100725-3	TRIP BLANK 052316	Total/NA	Water	8260C	
LCS 480-304305/8	Lab Control Sample	Total/NA	Water	8260C	
MB 480-304305/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-100725-1

Client Sample ID: WELL 1-2A
Lab Sample ID: 480-100725-1
Date Collected: 05/23/16 10:10
Matrix: Water
Date Received: 05/26/16 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	304305	05/31/16 12:26	SWO	TAL BUF

Client Sample ID: WELL 1-3
Lab Sample ID: 480-100725-2
Date Collected: 05/23/16 10:00
Matrix: Water
Date Received: 05/26/16 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	304305	05/31/16 12:49	SWO	TAL BUF

Client Sample ID: TRIP BLANK 052316
Lab Sample ID: 480-100725-3
Date Collected: 05/23/16 00:00
Matrix: Water
Date Received: 05/26/16 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	304305	05/31/16 13:12	SWO	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-100725-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-100725-1

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: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-100725-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-100725-1	WELL 1-2A	Water	05/23/16 10:10	05/26/16 08:20
480-100725-2	WELL 1-3	Water	05/23/16 10:00	05/26/16 08:20
480-100725-3	TRIP BLANK 052316	Water	05/23/16 00:00	05/26/16 08:20

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Whalen	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-72300-18034.1
Client Contact: Ms. Katie Bidwell	Phone: 315-436-5041	E-Mail: judy.stone@testamericainc.com		Page: Page 1 of 1
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): STD			
State, Zip: NY, 12065				
Phone: 518-250-7300(Tel)	PO #: Project 00266401.0000			
Email: katie.bidwell@arcadis-us.com	WO #: Contract D007618			
Project Name: NYSDEC-Standby VESTAL	Project #: 48005198			
Site:	SSOW#:			

Analysis Reques

480-100725 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
Preservation Code:							A		
Well 1-2A	5/23/16	10:10	G	Water			X		
Well 1-3	5/23/16	10:00	G	Water			X		
Trip Blank 05 23 16	5/23/16	-	-	Water			X		

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, (II), III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Lamb D. Whalen	5/23/16 10:30			5-26-16 0820	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.6 #1

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-100725-1

Login Number: 100725

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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 (Excluding tests with immediate HTs)..	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	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-102133-1
Client Project/Site: NYSDEC-Standby VESTAL

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, New York 12065

Attn: Jeremy Wyckoff

Joseph V. Giacomazza

Authorized for release by:
7/5/2016 7:32:07 PM
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
judy.stone@testamericainc.com

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.

Table of Contents

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)

Job ID: 480-102133-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-102133-1

Receipt
The samples were received on 6/23/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

Client Sample ID: WELL 1-2A — **Lab Sample ID: 480-102133-1**

No Detections.

Client Sample ID: WELL 1-3 — **Lab Sample ID: 480-102133-2**

No Detections.

Client Sample ID: TRIP BLANK 062116 — **Lab Sample ID: 480-102133-3**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

Client Sample ID: WELL 1-2A
Date Collected: 06/21/16 09:15
Date Received: 06/23/16 09:30

Lab Sample ID: 480-102133-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			06/30/16 22:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			06/30/16 22:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			06/30/16 22:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			06/30/16 22:03	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/30/16 22:03	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/30/16 22:03	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			06/30/16 22:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			06/30/16 22:03	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			06/30/16 22:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			06/30/16 22:03	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			06/30/16 22:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			06/30/16 22:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/30/16 22:03	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			06/30/16 22:03	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			06/30/16 22:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			06/30/16 22:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			06/30/16 22:03	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			06/30/16 22:03	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			06/30/16 22:03	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			06/30/16 22:03	1
Acetone	10	U	10	3.0	ug/L			06/30/16 22:03	1
Benzene	1.0	U	1.0	0.41	ug/L			06/30/16 22:03	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			06/30/16 22:03	1
Bromoform	1.0	U	1.0	0.26	ug/L			06/30/16 22:03	1
Bromomethane	1.0	U	1.0	0.69	ug/L			06/30/16 22:03	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			06/30/16 22:03	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			06/30/16 22:03	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			06/30/16 22:03	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/30/16 22:03	1
Chloroform	1.0	U	1.0	0.34	ug/L			06/30/16 22:03	1
Chloromethane	1.0	U	1.0	0.35	ug/L			06/30/16 22:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			06/30/16 22:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			06/30/16 22:03	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			06/30/16 22:03	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			06/30/16 22:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			06/30/16 22:03	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			06/30/16 22:03	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			06/30/16 22:03	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			06/30/16 22:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			06/30/16 22:03	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			06/30/16 22:03	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			06/30/16 22:03	1
Styrene	1.0	U	1.0	0.73	ug/L			06/30/16 22:03	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			06/30/16 22:03	1
Toluene	1.0	U	1.0	0.51	ug/L			06/30/16 22:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			06/30/16 22:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			06/30/16 22:03	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			06/30/16 22:03	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			06/30/16 22:03	1

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-102133-1

Date Collected: 06/21/16 09:15

Matrix: Water

Date Received: 06/23/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			06/30/16 22:03	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			06/30/16 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*66 - 137*		*06/30/16 22:03*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/30/16 22:03*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*		*06/30/16 22:03*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*		*06/30/16 22:03*	*1*

Client Sample ID: WELL 1-3

Lab Sample ID: 480-102133-2

Date Collected: 06/21/16 09:20

Matrix: Water

Date Received: 06/23/16 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			06/30/16 22:28	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			06/30/16 22:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			06/30/16 22:28	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			06/30/16 22:28	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/30/16 22:28	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/30/16 22:28	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			06/30/16 22:28	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			06/30/16 22:28	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			06/30/16 22:28	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			06/30/16 22:28	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			06/30/16 22:28	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			06/30/16 22:28	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/30/16 22:28	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			06/30/16 22:28	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			06/30/16 22:28	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			06/30/16 22:28	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			06/30/16 22:28	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			06/30/16 22:28	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			06/30/16 22:28	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			06/30/16 22:28	1
Acetone	10	U	10	3.0	ug/L			06/30/16 22:28	1
Benzene	1.0	U	1.0	0.41	ug/L			06/30/16 22:28	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			06/30/16 22:28	1
Bromoform	1.0	U	1.0	0.26	ug/L			06/30/16 22:28	1
Bromomethane	1.0	U	1.0	0.69	ug/L			06/30/16 22:28	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			06/30/16 22:28	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			06/30/16 22:28	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			06/30/16 22:28	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/30/16 22:28	1
Chloroform	1.0	U	1.0	0.34	ug/L			06/30/16 22:28	1
Chloromethane	1.0	U	1.0	0.35	ug/L			06/30/16 22:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			06/30/16 22:28	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			06/30/16 22:28	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			06/30/16 22:28	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			06/30/16 22:28	1

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-102133-2

Date Collected: 06/21/16 09:20

Matrix: Water

Date Received: 06/23/16 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			06/30/16 22:28	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			06/30/16 22:28	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			06/30/16 22:28	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			06/30/16 22:28	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			06/30/16 22:28	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			06/30/16 22:28	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			06/30/16 22:28	1
Styrene	1.0	U	1.0	0.73	ug/L			06/30/16 22:28	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			06/30/16 22:28	1
Toluene	1.0	U	1.0	0.51	ug/L			06/30/16 22:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			06/30/16 22:28	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			06/30/16 22:28	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			06/30/16 22:28	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			06/30/16 22:28	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			06/30/16 22:28	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			06/30/16 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*66 - 137*		*06/30/16 22:28*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*06/30/16 22:28*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*		*06/30/16 22:28*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*		*06/30/16 22:28*	*1*

Client Sample ID: TRIP BLANK 062116

Lab Sample ID: 480-102133-3

Date Collected: 06/21/16 00:00

Matrix: Water

Date Received: 06/23/16 09:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			06/30/16 22:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			06/30/16 22:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			06/30/16 22:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			06/30/16 22:52	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/30/16 22:52	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/30/16 22:52	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			06/30/16 22:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			06/30/16 22:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			06/30/16 22:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			06/30/16 22:52	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			06/30/16 22:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			06/30/16 22:52	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/30/16 22:52	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			06/30/16 22:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			06/30/16 22:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			06/30/16 22:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			06/30/16 22:52	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			06/30/16 22:52	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			06/30/16 22:52	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			06/30/16 22:52	1
Acetone	10	U	10	3.0	ug/L			06/30/16 22:52	1

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

Client Sample ID: TRIP BLANK 062116
Date Collected: 06/21/16 00:00
Date Received: 06/23/16 09:30

Lab Sample ID: 480-102133-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			06/30/16 22:52	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			06/30/16 22:52	1
Bromoform	1.0	U	1.0	0.26	ug/L			06/30/16 22:52	1
Bromomethane	1.0	U	1.0	0.69	ug/L			06/30/16 22:52	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			06/30/16 22:52	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			06/30/16 22:52	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			06/30/16 22:52	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/30/16 22:52	1
Chloroform	1.0	U	1.0	0.34	ug/L			06/30/16 22:52	1
Chloromethane	1.0	U	1.0	0.35	ug/L			06/30/16 22:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			06/30/16 22:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			06/30/16 22:52	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			06/30/16 22:52	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			06/30/16 22:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			06/30/16 22:52	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			06/30/16 22:52	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			06/30/16 22:52	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			06/30/16 22:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			06/30/16 22:52	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			06/30/16 22:52	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			06/30/16 22:52	1
Styrene	1.0	U	1.0	0.73	ug/L			06/30/16 22:52	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			06/30/16 22:52	1
Toluene	1.0	U	1.0	0.51	ug/L			06/30/16 22:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			06/30/16 22:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			06/30/16 22:52	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			06/30/16 22:52	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			06/30/16 22:52	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			06/30/16 22:52	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			06/30/16 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*66 - 137*		*06/30/16 22:52*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/30/16 22:52*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*		*06/30/16 22:52*	*1*
Toluene-d8 (Surr)	*92*		*71 - 126*		*06/30/16 22:52*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(66-137)	(73-120)	(60-140)	(71-126)
480-102133-1	WELL 1-2A	88	103	104	95
480-102133-2	WELL 1-3	89	104	102	95
480-102133-3	TRIP BLANK 062116	89	103	101	92
LCS 480-309428/5	Lab Control Sample	84	111	101	97
MB 480-309428/7	Method Blank	87	103	100	93

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-309428/7
Matrix: Water
Analysis Batch: 309428

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	1.0	U	1.0	0.82	ug/L			06/30/16 21:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			06/30/16 21:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			06/30/16 21:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			06/30/16 21:04	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			06/30/16 21:04	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			06/30/16 21:04	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			06/30/16 21:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			06/30/16 21:04	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			06/30/16 21:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			06/30/16 21:04	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			06/30/16 21:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			06/30/16 21:04	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			06/30/16 21:04	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			06/30/16 21:04	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			06/30/16 21:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			06/30/16 21:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			06/30/16 21:04	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			06/30/16 21:04	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			06/30/16 21:04	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			06/30/16 21:04	1
Acetone	10	U	10	3.0	ug/L			06/30/16 21:04	1
Benzene	1.0	U	1.0	0.41	ug/L			06/30/16 21:04	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			06/30/16 21:04	1
Bromoform	1.0	U	1.0	0.26	ug/L			06/30/16 21:04	1
Bromomethane	1.0	U	1.0	0.69	ug/L			06/30/16 21:04	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			06/30/16 21:04	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			06/30/16 21:04	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			06/30/16 21:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			06/30/16 21:04	1
Chloroform	1.0	U	1.0	0.34	ug/L			06/30/16 21:04	1
Chloromethane	1.0	U	1.0	0.35	ug/L			06/30/16 21:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			06/30/16 21:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			06/30/16 21:04	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			06/30/16 21:04	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			06/30/16 21:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			06/30/16 21:04	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			06/30/16 21:04	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			06/30/16 21:04	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			06/30/16 21:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			06/30/16 21:04	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			06/30/16 21:04	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			06/30/16 21:04	1
Styrene	1.0	U	1.0	0.73	ug/L			06/30/16 21:04	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			06/30/16 21:04	1
Toluene	1.0	U	1.0	0.51	ug/L			06/30/16 21:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			06/30/16 21:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			06/30/16 21:04	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			06/30/16 21:04	1

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

Lab Sample ID: MB 480-309428/7
Matrix: Water
Analysis Batch: 309428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			06/30/16 21:04	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			06/30/16 21:04	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			06/30/16 21:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*66 - 137*		*06/30/16 21:04*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*06/30/16 21:04*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*		*06/30/16 21:04*	*1*
Toluene-d8 (Surr)	*93*		*71 - 126*		*06/30/16 21:04*	*1*

Lab Sample ID: LCS 480-309428/5
Matrix: Water
Analysis Batch: 309428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.5		ug/L		94	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.9		ug/L		88	70 - 126
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	26.7		ug/L		107	52 - 148
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	24.4		ug/L		98	71 - 129
1,1-Dichloroethene	25.0	26.6		ug/L		106	58 - 121
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 122
1,2,4-Trimethylbenzene	25.0	22.5		ug/L		90	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	22.0		ug/L		88	56 - 134
1,2-Dibromoethane	25.0	23.3		ug/L		93	77 - 120
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	20.9		ug/L		84	75 - 127
1,2-Dichloropropane	25.0	24.7		ug/L		99	76 - 120
1,3,5-Trimethylbenzene	25.0	22.7		ug/L		91	77 - 121
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	75 - 120
2-Butanone (MEK)	125	131		ug/L		105	57 - 140
2-Hexanone	125	112		ug/L		89	65 - 127
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		82	71 - 125
Acetone	125	159		ug/L		127	56 - 142
Benzene	25.0	25.8		ug/L		103	71 - 124
Bromodichloromethane	25.0	23.6		ug/L		95	80 - 122
Bromoform	25.0	25.1		ug/L		101	52 - 132
Bromomethane	25.0	27.7		ug/L		111	55 - 144
Carbon disulfide	25.0	25.2		ug/L		101	59 - 134
Carbon tetrachloride	25.0	24.3		ug/L		97	72 - 134
Chlorobenzene	25.0	24.8		ug/L		99	72 - 120
Chloroethane	25.0	26.1		ug/L		104	69 - 136
Chloroform	25.0	23.5		ug/L		94	73 - 127
Chloromethane	25.0	24.6		ug/L		99	68 - 124
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	74 - 124
cis-1,3-Dichloropropene	25.0	23.6		ug/L		94	74 - 124

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

Lab Sample ID: LCS 480-309428/5
Matrix: Water
Analysis Batch: 309428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	25.0	24.8		ug/L		99	59 - 135
Dibromochloromethane	25.0	24.3		ug/L		97	75 - 125
Dichlorodifluoromethane	25.0	24.9		ug/L		100	59 - 135
Ethylbenzene	25.0	24.2		ug/L		97	77 - 123
Isopropylbenzene	25.0	23.4		ug/L		94	77 - 122
Methyl acetate	125	116		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	22.9		ug/L		91	64 - 127
Methylcyclohexane	25.0	26.6		ug/L		106	61 - 138
Methylene Chloride	25.0	27.3		ug/L		109	57 - 132
Styrene	25.0	24.4		ug/L		98	70 - 130
Tetrachloroethene	25.0	27.2		ug/L		109	74 - 122
Toluene	25.0	24.2		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	26.9		ug/L		107	73 - 127
trans-1,3-Dichloropropene	25.0	22.2		ug/L		89	72 - 123
Trichloroethene	25.0	25.7		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	25.3		ug/L		101	62 - 152
Vinyl chloride	25.0	27.1		ug/L		108	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*66 - 137*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*97*		*71 - 126*

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

GC/MS VOA

Analysis Batch: 309428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102133-1	WELL 1-2A	Total/NA	Water	8260C	
480-102133-2	WELL 1-3	Total/NA	Water	8260C	
480-102133-3	TRIP BLANK 062116	Total/NA	Water	8260C	
LCS 480-309428/5	Lab Control Sample	Total/NA	Water	8260C	
MB 480-309428/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-102133-1

Date Collected: 06/21/16 09:15

Matrix: Water

Date Received: 06/23/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	309428	06/30/16 22:03	GTG	TAL BUF

Client Sample ID: WELL 1-3

Lab Sample ID: 480-102133-2

Date Collected: 06/21/16 09:20

Matrix: Water

Date Received: 06/23/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	309428	06/30/16 22:28	GTG	TAL BUF

Client Sample ID: TRIP BLANK 062116

Lab Sample ID: 480-102133-3

Date Collected: 06/21/16 00:00

Matrix: Water

Date Received: 06/23/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	309428	06/30/16 22:52	GTG	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

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: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-102133-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-102133-1	WELL 1-2A	Water	06/21/16 09:15	06/23/16 09:30
480-102133-2	WELL 1-3	Water	06/21/16 09:20	06/23/16 09:30
480-102133-3	TRIP BLANK 062116	Water	06/21/16 00:00	06/23/16 09:30

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. Whalen	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-72301-18034.1
Client Contact: Ms. Katie Bidwell	Phone: 315-436-5041	E-Mail: judy.stone@testamericainc.com		Page: Page 1 of 1
Company: ARCADIS U.S. Inc				Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): STD			
State, Zip: NY, 12065				
Phone: 518-250-7300(Tel)	PO #: Project 00266401.0000			
Email: katie.bidwell@arcadis-us.com	WO #: Contract D007618			
Project Name: NYSDEC-Standby VESTAL	Project #: 48005198			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
Well 1-2A	6/21/16	0915	G	Water			X		
Well 1-3	6/21/16	0920	G	Water			X		
Trip Blank 062116	6/21/16	—	—	Water			X		

480-102133 Chain of Custody

Possible Hazard Identification
■ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ■ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Lauren J. Whalen	6/21/16 1000			6/23/16 0930	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.8 #1

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-102133-1

Login Number: 102133

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 (Excluding tests with immediate HTs)..	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.	False	
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	

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0138

Town of Vestal

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Received: 04/20/2016 16:28
Reported: 05/05/2016 15:15

Case Narrative

Analytical Testing Parameters

Client Sample ID:	**1-2A Raw**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-01**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	08:56

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J6D0138-01
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 04/20/16
Collection Time: 08:56

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		04/28/16 1853	04/29/16 1522	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Styrene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Toluene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	04/28/16 1853	04/28/16 1853	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	04/28/16 1853	04/28/16 1853	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/28/16 1853	04/28/16 1853	SAY
Surrogate: 4-Bromofluorobenzene	76.2		Limit: 70-130	% Rec		04/28/16 1853	04/28/16 1853	SAY
Surrogate: 1,2-Dichlorobenzene-d4	80.2		Limit: 70-130	% Rec		04/28/16 1853	04/28/16 1853	SAY

CERTIFICATE OF ANALYSIS

J6D0138

Analytical Testing Parameters

Client Sample ID:	**1-2A Finished**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-02**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	08:58

CERTIFICATE OF ANALYSIS

J6D0138

Analytical Testing Parameters

Client Sample ID:	**1-2A Finished**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-02**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	08:58

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		04/28/16 1926	04/29/16 1551	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Styrene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY

CERTIFICATE OF ANALYSIS

J6D0138

Analytical Testing Parameters

Client Sample ID:	**1-2A Finished**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-02**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	08:58

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	04/28/16 1926	04/28/16 1926	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	04/28/16 1926	04/28/16 1926	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/28/16 1926	04/28/16 1926	SAY
Surrogate: 4-Bromofluorobenzene	82.8		Limit: 70-130	% Rec		04/28/16 1926	04/28/16 1926	SAY
Surrogate: 1,2-Dichlorobenzene-d4	78.2		Limit: 70-130	% Rec		04/28/16 1926	04/28/16 1926	SAY

CERTIFICATE OF ANALYSIS

J6D0138

Analytical Testing Parameters

Client Sample ID:	**1-3 Raw**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-03**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	08:52

Analytical Testing Parameters

Client Sample ID:	**1-3 Raw**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-03**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	08:52

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		04/28/16 1959	04/29/16 1620	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Styrene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY

CERTIFICATE OF ANALYSIS

J6D0138

Analytical Testing Parameters

Client Sample ID:	**1-3 Raw**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-03**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	08:52

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	04/28/16 1959	04/28/16 1959	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	04/28/16 1959	04/28/16 1959	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/28/16 1959	04/28/16 1959	SAY
Surrogate: 4-Bromofluorobenzene	77.6		Limit: 70-130	% Rec		04/28/16 1959	04/28/16 1959	SAY
Surrogate: 1,2-Dichlorobenzene-d4	71.8		Limit: 70-130	% Rec		04/28/16 1959	04/28/16 1959	SAY

CERTIFICATE OF ANALYSIS

J6D0138

Analytical Testing Parameters

Client Sample ID:	**1-3 Finished**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-04**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	08:54

Analytical Testing Parameters

Client Sample ID:	**1-3 Finished**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-04**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	08:54

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		04/28/16 2033	04/29/16 1649	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Styrene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY

CERTIFICATE OF ANALYSIS

J6D0138

Analytical Testing Parameters

Client Sample ID:	**1-3 Finished**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-04**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	08:54

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	04/28/16 2033	04/28/16 2033	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	04/28/16 2033	04/28/16 2033	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/28/16 2033	04/28/16 2033	SAY
Surrogate: 4-Bromofluorobenzene	83.4		Limit: 70-130	% Rec		04/28/16 2033	04/28/16 2033	SAY
Surrogate: 1,2-Dichlorobenzene-d4	81.8		Limit: 70-130	% Rec		04/28/16 2033	04/28/16 2033	SAY

CERTIFICATE OF ANALYSIS

J6D0138

Analytical Testing Parameters

Client Sample ID:	**4-2 Raw**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-05**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	09:28

Analytical Testing Parameters

Client Sample ID:	**4-2 Raw**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-05**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	09:28

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		04/28/16 2106	04/29/16 1718	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Styrene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Tetrachloroethene	**0.670**	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J6D0138-05
Sample Type: Grab

Collected By: BNR-Lab
Collection Date: 04/20/16
Collection Time: 09:28

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,1,1-Trichloroethane	**1.04**	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Trichloroethene	**1.17**	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	**Y**	04/28/16 2106	04/28/16 2106	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	**Y**	04/28/16 2106	04/28/16 2106	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/28/16 2106	04/28/16 2106	SAY
Surrogate: 4-Bromofluorobenzene	84.6		Limit: 70-130	% Rec		04/28/16 2106	04/28/16 2106	SAY
Surrogate: 1,2-Dichlorobenzene-d4	78.2		Limit: 70-130	% Rec		04/28/16 2106	04/28/16 2106	SAY

CERTIFICATE OF ANALYSIS

J6D0138

Analytical Testing Parameters

Client Sample ID:	**4-2 Finished**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-06**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	09:30

Analytical Testing Parameters

Client Sample ID:	**4-2 Finished**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-06**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	09:30

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		04/28/16 2139	04/29/16 1747	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Styrene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY

Analytical Testing Parameters

Client Sample ID:	**4-2 Finished**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-06**	**Collection Date:**	04/20/16
Sample Type:	Grab	**Collection Time:**	09:30

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	04/28/16 2139	04/28/16 2139	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	04/28/16 2139	04/28/16 2139	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		04/28/16 2139	04/28/16 2139	SAY
Surrogate: 4-Bromofluorobenzene	81.2		Limit: 70-130	% Rec		04/28/16 2139	04/28/16 2139	SAY
Surrogate: 1,2-Dichlorobenzene-d4	75.8		Limit: 70-130	% Rec		04/28/16 2139	04/28/16 2139	SAY

Analytical Testing Parameters

Client Sample ID:	**Trip Blank**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-07RE1**	**Collection Date:**	04/20/16
Sample Type:	Trip Blank	**Collection Time:**	11:50

Analytical Testing Parameters

Client Sample ID:	**Trip Blank**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-07RE1**	**Collection Date:**	04/20/16
Sample Type:	Trip Blank	**Collection Time:**	11:50

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		04/29/16 1820	04/29/16 1820	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Styrene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY

Analytical Testing Parameters

Client Sample ID:	**Trip Blank**	**Collected By:**	BNR-Lab
Lab Sample ID:	**J6D0138-07RE1**	**Collection Date:**	04/20/16
Sample Type:	Trip Blank	**Collection Time:**	11:50

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	05/02/16 2235	05/02/16 2235	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	05/02/16 2235	05/02/16 2235	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		05/02/16 2235	05/02/16 2235	SAY
Surrogate: 4-Bromofluorobenzene	79.8		Limit: 70-130	% Rec		04/29/16 1820	04/29/16 1820	SAY
Surrogate: 4-Bromofluorobenzene	72.8		Limit: 70-130	% Rec		05/02/16 2235	05/02/16 2235	SAY
Surrogate: 1,2-Dichlorobenzene-d4	68.8		Limit: 70-130	% Rec	S2	04/29/16 1820	04/29/16 1820	SAY
Surrogate: 1,2-Dichlorobenzene-d4	71.4		Limit: 70-130	% Rec		05/02/16 2235	05/02/16 2235	SAY

Laboratory

SAY: Microbac Laboratories, Inc., Sayre Division

Definitions

MCL: Maximum Contaminant Level

PQL: Practical Quantitation Limit

S2: Surrogate recovery is below acceptance limits.

Y: This analyte is not on the laboratory's current scope of accreditation.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 2.7°C

Cooler Inspection Checklist

Custody Seals Intact and/or No Evidence of Tampering	Yes	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Correct (or not required)	Yes
Received on Ice (or not required)	Yes		

Project Requested Certification(s)

Microbac Laboratories, Inc., Sayre Division

NY Lab ID No.: 11216 New York State Department of Health

Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6D0138

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

Reviewed and Approved By:

Andrew Canale For Michael Fifield
Division Manager
05/05/2016 15:15

Go Green: Contact Michael Fifield 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 Michael Fifield, Project Manager at michael.fifield@microbac.com. You may also contact Michael Fifield, Managing Director at michael.fifield@microbac.com or Robert Crookston, President at robert.crookston@microbac.com.

Microbac Laboratories, Inc., New York Division

J6D0138

Client: **Town of Vestal**
Project: **Monthly**
Project Number: **Town of Vestal Monthly/Quarterly**

Field Route ID: **NY-Route 1 Bing**
Tentatively Scheduled: **4/12/2016**

Report To:
Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Invoice To:
Darlene Skiba
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone :(607) 748-1514

TAT 7 days

Sample ID: 1-2A Raw

Lab Sample ID: J6D0138-01
Matrix: Drinking Water
Type: Grab
Sampled Date & Time: 04-20-2016 0856

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____
Sampling Point: _____ **Frequency** _____ **Compliance End:** _____
Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: 1-2A Finished

Lab Sample ID: J6D0138-02
Matrix: Drinking Water
Type: Grab
Sampled Date & Time: 04-20-2016 0856

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____
Sampling Point: _____ **Frequency** _____ **Compliance End:** _____
Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: 1-3 Raw

Lab Sample ID: J6D0138-03
Matrix: Drinking Water
Type: Grab
Sampled Date & Time: 04-20-2016 0852

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____
Sampling Point: _____ **Frequency** _____ **Compliance End:** _____
Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14

Microbac Laboratories, Inc., New York Division

J6D0138

Client: **Town of Vestal**

Project: **Monthly**

Project Number: **Town of Vestal Monthly/Quarterly**

Field Route ID: **NY-Route 1 Bing**

Tenatively Scheduled: **4/12/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	

Total Containers: 2

Sample ID: 1-3 Finished

Lab Sample ID: J6D0138-04
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 04-20-2016 0954

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	

Total Containers: 2

Sample ID: 4-2 Raw

Lab Sample ID: J6D0138-05
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 04-20-2016 0934

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	

Total Containers: 2

Sample ID: 4-2 Finished

Lab Sample ID: J6D0138-06
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 04-20-2016 0930

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	

Microbac Laboratories, Inc., New York Division

J6D0138

Client: **Town of Vestal**
Project: **Monthly**
Project Number: **Town of Vestal Monthly/Quarterly**

Field Route ID: **NY-Route 1 Bing**
Tenatively Scheduled: **4/12/2016**

Total Containers: 2

Sample ID: Trip Blank

Lab Sample ID: J6D0138-07
Matrix: Drinking Water
Type: Trip Blank

Sampled Date & Time: 04-04-2016 1150

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 1

Sampled by: Bethany Robinson Printed Name: Bethany Robinson	Date/Time: 04-20-2016 1434	Received by: Printed Name:
Relinquished by: Bethany Robinson Printed Name: Bethany Robinson	Date/Time: 4-20-16 1432	Received by: Christine Rhodes Printed Name: Christine Rhodes LLS
Relinquished by: Printed Name:	Date/Time:	Received by: Printed Name:

As Recieved at Laboratory: On Ice: (Yes) / No Cooler Temp 2.7c Total Bottles 13

Notes:

Added via by BNR 04/01/2016 09:28

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6E0273

Town of Vestal

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Received: 05/20/2016 15:10
Reported: 05/31/2016 18:38

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J6E0273-01
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 05/20/16
Collection Time: 09:38

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY

Analytical Testing Parameters

Client Sample ID:	**1-2A Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-01**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	09:38

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Naphthalene	<0.500	50.0	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Styrene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Toluene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0240	05/28/16 0240	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0240	05/28/16 0240	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		05/28/16 0240	05/28/16 0240	SAY
Surrogate: 4-Bromofluorobenzene	81.2		Limit: 70-130	% Rec		05/28/16 0240	05/28/16 0240	SAY
Surrogate: 1,2-Dichlorobenzene-d4	83.8		Limit: 70-130	% Rec		05/28/16 0240	05/28/16 0240	SAY

CERTIFICATE OF ANALYSIS

J6E0273

Analytical Testing Parameters

Client Sample ID:	**1-2A Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-02**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	09:40

Analytical Testing Parameters

Client Sample ID:	**1-2A Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-02**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	09:40

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Styrene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY

Analytical Testing Parameters

Client Sample ID:	**1-2A Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-02**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	09:40

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0313	05/28/16 0313	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0313	05/28/16 0313	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		05/28/16 0313	05/28/16 0313	SAY
Surrogate: 4-Bromofluorobenzene	84.8		Limit: 70-130	% Rec		05/28/16 0313	05/28/16 0313	SAY
Surrogate: 1,2-Dichlorobenzene-d4	83.2		Limit: 70-130	% Rec		05/28/16 0313	05/28/16 0313	SAY

CERTIFICATE OF ANALYSIS

J6E0273

Analytical Testing Parameters

Client Sample ID:	**1-3 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-03**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	09:42

Analytical Testing Parameters

Client Sample ID:	**1-3 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-03**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	09:42

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Styrene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY

Analytical Testing Parameters

Client Sample ID:	**1-3 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-03**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	09:42

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0346	05/28/16 0346	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0346	05/28/16 0346	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		05/28/16 0346	05/28/16 0346	SAY
Surrogate: 4-Bromofluorobenzene	84.8		Limit: 70-130	% Rec		05/28/16 0346	05/28/16 0346	SAY
Surrogate: 1,2-Dichlorobenzene-d4	84.4		Limit: 70-130	% Rec		05/28/16 0346	05/28/16 0346	SAY

CERTIFICATE OF ANALYSIS

J6E0273

Analytical Testing Parameters

Client Sample ID:	**1-3 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-04**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	09:44

Analytical Testing Parameters

Client Sample ID:	**1-3 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-04**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	09:44

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Styrene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY

Analytical Testing Parameters

Client Sample ID:	**1-3 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-04**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	09:44

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0419	05/28/16 0419	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0419	05/28/16 0419	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		05/28/16 0419	05/28/16 0419	SAY
Surrogate: 4-Bromofluorobenzene	82.2		Limit: 70-130	% Rec		05/28/16 0419	05/28/16 0419	SAY
Surrogate: 1,2-Dichlorobenzene-d4	83.8		Limit: 70-130	% Rec		05/28/16 0419	05/28/16 0419	SAY

CERTIFICATE OF ANALYSIS

J6E0273

Analytical Testing Parameters

Client Sample ID:	**4-2 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-05**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	10:00

Analytical Testing Parameters

Client Sample ID:	**4-2 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-05**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	10:00

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Styrene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Tetrachloroethene	**0.510**	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY

CERTIFICATE OF ANALYSIS

J6E0273

Analytical Testing Parameters

Client Sample ID:	**4-2 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-05**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	10:00

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,1,1-Trichloroethane	**0.780**	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Trichloroethene	**1.00**	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	**Y**	05/28/16 0451	05/28/16 0451	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	**Y**	05/28/16 0451	05/28/16 0451	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		05/28/16 0451	05/28/16 0451	SAY
Surrogate: 4-Bromofluorobenzene	85.6		Limit: 70-130	% Rec		05/28/16 0451	05/28/16 0451	SAY
Surrogate: 1,2-Dichlorobenzene-d4	82.8		Limit: 70-130	% Rec		05/28/16 0451	05/28/16 0451	SAY

CERTIFICATE OF ANALYSIS

J6E0273

Analytical Testing Parameters

Client Sample ID:	**4-2 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-06**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	10:02

Analytical Testing Parameters

Client Sample ID:	**4-2 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-06**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	10:02

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Styrene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY

CERTIFICATE OF ANALYSIS

J6E0273

Analytical Testing Parameters

Client Sample ID:	**4-2 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-06**	**Collection Date:**	05/20/16
Sample Type:	Grab	**Collection Time:**	10:02

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0524	05/28/16 0524	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0524	05/28/16 0524	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		05/28/16 0524	05/28/16 0524	SAY
Surrogate: 4-Bromofluorobenzene	83.2		Limit: 70-130	% Rec		05/28/16 0524	05/28/16 0524	SAY
Surrogate: 1,2-Dichlorobenzene-d4	86.2		Limit: 70-130	% Rec		05/28/16 0524	05/28/16 0524	SAY

CERTIFICATE OF ANALYSIS

J6E0273

Analytical Testing Parameters

Client Sample ID:	**Trip Blank**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-07**	**Collection Date:**	05/19/16
Sample Type:	Trip Blank	**Collection Time:**	17:02

Analytical Testing Parameters

Client Sample ID:	**Trip Blank**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-07**	**Collection Date:**	05/19/16
Sample Type:	Trip Blank	**Collection Time:**	17:02

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Styrene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6E0273

Analytical Testing Parameters

Client Sample ID:	**Trip Blank**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6E0273-07**	**Collection Date:**	05/19/16
Sample Type:	Trip Blank	**Collection Time:**	17:02

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0557	05/28/16 0557	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	05/28/16 0557	05/28/16 0557	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		05/28/16 0557	05/28/16 0557	SAY
Surrogate: 4-Bromofluorobenzene	84.6		Limit: 70-130	% Rec		05/28/16 0557	05/28/16 0557	SAY
Surrogate: 1,2-Dichlorobenzene-d4	84.4		Limit: 70-130	% Rec		05/28/16 0557	05/28/16 0557	SAY

Laboratory

SAY: Microbac Laboratories, Inc., Sayre Division

Definitions

MCL: Maximum Contaminant Level

PQL: Practical Quantitation Limit

Y: This analyte is not on the laboratory's current scope of accreditation.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 3.7°C

Cooler Inspection Checklist

Custody Seals Intact and/or No Evidence of Tampering	Yes	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Correct (or not required)	Yes
Received on Ice (or not required)	Yes		

Project Requested Certification(s)

Microbac Laboratories, Inc., Sayre Division

NY Lab ID No.: 11216 New York State Department of Health

Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6E0273

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

Reviewed and Approved By:

Michael Fifield
Division Manager
05/31/2016 18:38

Go Green: Contact Michael Fifield 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 Michael Fifield, Project Manager at michael.fifield@microbac.com. You may also contact Michael Fifield, Managing Director at michael.fifield@microbac.com or Robert Crookston, President at robert.crookston@microbac.com.

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Microbac Laboratories, Inc., New York Division

Chain of Custody

J6E0273

Client: **Town of Vestal**

Project: **Monthly**

Project Number: **Town of Vestal Monthly/Quarterly**

Field Route ID: **NY-Route 1 Bing**

Tenatively Scheduled: **5/10/2016**

Report To:
Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Invoice To:
Darlene Skiba
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone :(607) 748-1514

TAT 7 days

Sample ID: 1-2A Raw

Lab Sample ID: J6E0273-01
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 05-20-16 0936

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____
Sampling Point: _____ **Frequency** _____ **Compliance End:** _____
Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: 1-2A Finished

Lab Sample ID: J6E0273-02
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 05-20-16 0940

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____
Sampling Point: _____ **Frequency** _____ **Compliance End:** _____
Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: 1-3 Raw

Lab Sample ID: J6E0273-03
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 05-20-16 0942

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____
Sampling Point: _____ **Frequency** _____ **Compliance End:** _____
Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14

Microbac Laboratories, Inc., New York Division

Chain of Custody

J6E0273

Client: **Town of Vestal**

Project: **Monthly**

Project Number: **Town of Vestal Monthly/Quarterly**

Field Route ID: **NY-Route 1 Bing**

Tenatively Scheduled: **5/10/2016**

		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	
		Total Containers:	2

Sample ID: 1-3 Finished

Lab Sample ID: J6E0273-04
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 05-20-16 0944

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____

Sampling Point: _____ **Frequency** _____ **Compliance End:** _____

Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	
		Total Containers:	2

Sample ID: 4-2 Raw

Lab Sample ID: J6E0273-05
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 05-20-16 1000

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____

Sampling Point: _____ **Frequency** _____ **Compliance End:** _____

Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	
		Total Containers:	2

Sample ID: 4-2 Finished

Lab Sample ID: J6E0273-06
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 05-20-16 1002

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____

Sampling Point: _____ **Frequency** _____ **Compliance End:** _____

Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	

Microbac Laboratories, Inc., New York Division

Chain of Custody

J6E0273

Client: **Town of Vestal**

Project: **Monthly**

Project Number: **Town of Vestal Monthly/Quarterly**

Field Route ID: **NY-Route 1 Bing**

Tenatively Scheduled: **5/10/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: Trip Blank

Lab Sample ID: J6E0273-07
Matrix: Drinking Water
Type: Trip Blank

Sampled Date & Time: 05-19-16 1702

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 1

Sampled by: Bethany Robinson Printed Name: Bethany Robinson	Date/Time: 05-20-16 1108	Received by: Printed Name:
Relinquished by: Bethany Robinson Printed Name: Bethany Robinson	Date/Time: 5-20-16 1430	Received by: JPalanza Printed Name: JOSEPH PALANZA
Relinquished by: JPalanza Printed Name: JOSEPH PALANZA	Date/Time: 5/20/16 1510	Received by: Amy Udmar Printed Name: Amy Udmar

As Recieved at Laboratory: On Ice: (Yes) / No Temp 3.7 °C

Total Bottles 13

Notes:

Added via by BNR 05/02/2016 17:14

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6F0818

Town of Vestal

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Received: 06/22/2016 14:30
Reported: 07/01/2016 13:34

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J6F0818-01
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 06/22/16
Collection Time: 08:30

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J6F0818-01
Sample Type: Grab

Collected By: Bethany Robinson
Collection Date: 06/22/16
Collection Time: 08:30

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Naphthalene	<0.500	50.0	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Styrene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Toluene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1303	06/30/16 1303	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1303	06/30/16 1303	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/30/16 1303	06/30/16 1303	SAY
Surrogate: 4-Bromofluorobenzene	113		Limit: 70-130	% Rec		06/30/16 1303	06/30/16 1303	SAY
Surrogate: 1,2-Dichlorobenzene-d4	116		Limit: 70-130	% Rec		06/30/16 1303	06/30/16 1303	SAY

CERTIFICATE OF ANALYSIS

J6F0818

Analytical Testing Parameters

Client Sample ID:	**1-2A Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-02**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:32

CERTIFICATE OF ANALYSIS

J6F0818

Analytical Testing Parameters

Client Sample ID:	**1-2A Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-02**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:32

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Styrene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY

Analytical Testing Parameters

Client Sample ID:	**1-2A Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-02**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:32

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1335	06/30/16 1335	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1335	06/30/16 1335	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/30/16 1335	06/30/16 1335	SAY
Surrogate: 4-Bromofluorobenzene	87.8		Limit: 70-130	% Rec		06/30/16 1335	06/30/16 1335	SAY
Surrogate: 1,2-Dichlorobenzene-d4	91.0		Limit: 70-130	% Rec		06/30/16 1335	06/30/16 1335	SAY

CERTIFICATE OF ANALYSIS

J6F0818

Analytical Testing Parameters

Client Sample ID:	**1-3 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-03**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:36

CERTIFICATE OF ANALYSIS

J6F0818

Analytical Testing Parameters

Client Sample ID:	**1-3 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-03**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:36

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Styrene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY

Analytical Testing Parameters

Client Sample ID:	**1-3 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-03**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:36

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1406	06/30/16 1406	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1406	06/30/16 1406	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/30/16 1406	06/30/16 1406	SAY
Surrogate: 4-Bromofluorobenzene	91.4		Limit: 70-130	% Rec		06/30/16 1406	06/30/16 1406	SAY
Surrogate: 1,2-Dichlorobenzene-d4	90.6		Limit: 70-130	% Rec		06/30/16 1406	06/30/16 1406	SAY

CERTIFICATE OF ANALYSIS

J6F0818

Analytical Testing Parameters

Client Sample ID:	**1-3 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-04**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:38

Analytical Testing Parameters

Client Sample ID:	**1-3 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-04**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:38

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Styrene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY

Analytical Testing Parameters

Client Sample ID:	**1-3 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-04**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:38

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1438	06/30/16 1438	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1438	06/30/16 1438	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/30/16 1438	06/30/16 1438	SAY
Surrogate: 4-Bromofluorobenzene	84.8		Limit: 70-130	% Rec		06/30/16 1438	06/30/16 1438	SAY
Surrogate: 1,2-Dichlorobenzene-d4	91.2		Limit: 70-130	% Rec		06/30/16 1438	06/30/16 1438	SAY

CERTIFICATE OF ANALYSIS

J6F0818

Analytical Testing Parameters

Client Sample ID:	**4-2 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-05**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:51

Analytical Testing Parameters

Client Sample ID:	**4-2 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-05**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:51

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Styrene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY

Analytical Testing Parameters

Client Sample ID:	**4-2 Raw**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-05**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:51

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,1,1-Trichloroethane	**0.520**	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Trichloroethene	**0.940**	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	**Y**	06/30/16 1510	06/30/16 1510	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	**Y**	06/30/16 1510	06/30/16 1510	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/30/16 1510	06/30/16 1510	SAY
Surrogate: 4-Bromofluorobenzene	87.0		Limit: 70-130	% Rec		06/30/16 1510	06/30/16 1510	SAY
Surrogate: 1,2-Dichlorobenzene-d4	92.2		Limit: 70-130	% Rec		06/30/16 1510	06/30/16 1510	SAY

CERTIFICATE OF ANALYSIS

J6F0818

Analytical Testing Parameters

Client Sample ID:	**4-2 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-06**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:56

Analytical Testing Parameters

Client Sample ID:	**4-2 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-06**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:56

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Styrene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY

Analytical Testing Parameters

Client Sample ID:	**4-2 Finished**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-06**	**Collection Date:**	06/22/16
Sample Type:	Grab	**Collection Time:**	08:56

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1542	06/30/16 1542	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1542	06/30/16 1542	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/30/16 1542	06/30/16 1542	SAY
Surrogate: 4-Bromofluorobenzene	86.0		Limit: 70-130	% Rec		06/30/16 1542	06/30/16 1542	SAY
Surrogate: 1,2-Dichlorobenzene-d4	89.8		Limit: 70-130	% Rec		06/30/16 1542	06/30/16 1542	SAY

CERTIFICATE OF ANALYSIS

J6F0818

Analytical Testing Parameters

Client Sample ID:	**Trip Blank**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-07**	**Collection Date:**	06/16/16
Sample Type:	Trip Blank	**Collection Time:**	17:08

CERTIFICATE OF ANALYSIS

J6F0818

Analytical Testing Parameters

Client Sample ID:	**Trip Blank**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-07**	**Collection Date:**	06/16/16
Sample Type:	Trip Blank	**Collection Time:**	17:08

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Bromobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Bromochloromethane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
n-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
tert-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
sec-Butylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Carbon tetrachloride	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Chlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Chloroethane (Ethyl chloride)	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
2-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
4-Chlorotoluene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Dibromomethane (Methylene bromide)	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,2-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,4-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,3-Dichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,1-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,2-Dichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,1-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
cis-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
trans-1,2-Dichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
2,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,2-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,3-Dichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
cis-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
trans-1,3-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,1-Dichloropropene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Ethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Hexachlorobutadiene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Isopropylbenzene (Cumene)	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Methyl bromide (Bromomethane)	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Methyl tert-butyl ether (MTBE)	<0.500	50.0	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Methyl chloride (Chloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Methylene chloride (Dichloromethane)	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Naphthalene	<0.500	50.0	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
n-Propylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Styrene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,1,2,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,1,1,2-Tetrachloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Tetrachloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY

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CERTIFICATE OF ANALYSIS

J6F0818

Analytical Testing Parameters

Client Sample ID:	**Trip Blank**	**Collected By:**	Bethany Robinson
Lab Sample ID:	**J6F0818-07**	**Collection Date:**	06/16/16
Sample Type:	Trip Blank	**Collection Time:**	17:08

Volatile Organic Compounds - GC/MS	Result	MCL	PQL	Units	Note	Prepared	Analyzed	Lab
Toluene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,2,4-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,2,3-Trichlorobenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,1,2-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,1,1-Trichloroethane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Trichloroethene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Trichlorofluoromethane (Freon 11)	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,2,3-Trichloropropane	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,3,5-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
1,2,4-Trimethylbenzene	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Vinyl chloride	<0.500	2.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
m,p-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1615	06/30/16 1615	SAY
o-Xylene	<0.500	5.00	0.500	ug/L	Y	06/30/16 1615	06/30/16 1615	SAY
Xylenes (total)	<0.500	5.00	0.500	ug/L		06/30/16 1615	06/30/16 1615	SAY
Surrogate: 4-Bromofluorobenzene	88.6		Limit: 70-130	% Rec		06/30/16 1615	06/30/16 1615	SAY
Surrogate: 1,2-Dichlorobenzene-d4	94.0		Limit: 70-130	% Rec		06/30/16 1615	06/30/16 1615	SAY

Laboratory

SAY: Microbac Laboratories, Inc., Sayre Division

Definitions

MCL: Maximum Contaminant Level

PQL: Practical Quantitation Limit

Y: This analyte is not on the laboratory's current scope of accreditation.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 2.4°C

Cooler Inspection Checklist

Custody Seals Intact and/or No Evidence of Tampering	Yes	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Correct (or not required)	Yes
Received on Ice (or not required)	Yes		

Project Requested Certification(s)

Microbac Laboratories, Inc., Sayre Division

NY Lab ID No.: 11216 New York State Department of Health

Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J6F0818

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

Reviewed and Approved By:

Michael Fifield
Division Manager
07/01/2016 13:34

Go Green: Contact Michael Fifield 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 Michael Fifield, Project Manager at michael.fifield@microbac.com. You may also contact Michael Fifield, Managing Director at michael.fifield@microbac.com or Robert Crookston, President at robert.crookston@microbac.com.

Microbac Laboratories, Inc., New York Division

Chain of Custody

J6F0818

Client: **Town of Vestal**

Project: **Monthly**

Project Number: **Town of Vestal Monthly/Quarterly**

Field Route ID: **NY-Route 1 Bing**

Tenatively Scheduled: **6/14/2016**

Report To:
Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Invoice To:
Darlene Skiba
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone :(607) 748-1514

TAT 7 days

Sample ID: 1-2A Raw

Lab Sample ID: J6F0818-01
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 06-22-16 0830

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____
Sampling Point: _____ **Frequency** _____ **Compliance End:** _____
Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: 1-2A Finished

Lab Sample ID: J6F0818-02
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 06-22-16 0832

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____
Sampling Point: _____ **Frequency** _____ **Compliance End:** _____
Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: 1-3 Raw

Lab Sample ID: J6F0818-03
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 06-22-16 0836

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____
Sampling Point: _____ **Frequency** _____ **Compliance End:** _____
Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14

Microbac Laboratories, Inc., New York Division

Chain of Custody

J6F0818

Client: **Town of Vestal**

Project: **Monthly**

Field Route ID: **NY-Route 1 Bing**

Project Number: **Town of Vestal Monthly/Quarterly**

Tenatively Scheduled: **6/14/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
		V-40ml Clear vial, HCL	

Total Containers: 2

Sample ID: 1-3 Finished

Lab Sample ID: J6F0818-04
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 06-22-16 0830

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____

Sampling Point: _____ **Frequency** _____ **Compliance End:** _____

Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: 4-2 Raw

Lab Sample ID: J6F0818-05
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 06-22-16 0851

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____

Sampling Point: _____ **Frequency** _____ **Compliance End:** _____

Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: 4-2 Finished

Lab Sample ID: J6F0818-06
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 06-22-16 0856

PWSID: _____ **Point Type:** _____ **Compliance Start:** _____

Sampling Point: _____ **Frequency** _____ **Compliance End:** _____

Point No: _____ **Num/Frequency** _____ **Sample Location:** _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14

Microbac Laboratories, Inc., New York Division

Chain of Custody

J6F0818

Client: **Town of Vestal**

Project: **Monthly**

Field Route ID: **NY-Route 1 Bing**

Project Number: **Town of Vestal Monthly/Quarterly**

Tenatively Scheduled: **6/14/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	
		Total Containers:	2

Sample ID: Trip Blank

Lab Sample ID: J6F0818-07
Matrix: Drinking Water
Type: Trip Blank

Sampled Date & Time: 06-16-16 1708

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	
		Total Containers:	1

Sampled by: Bethany Robinson	Date/Time: 16-22-16 0900	Received by:
Printed Name: Bethany Robinson		Printed Name:
Relinquished by: Bethany Robinson	Date/Time: 6-22-16 1430	Received by: Catherine P. Hurst
Printed Name: Bethany Robinson		Printed Name: Catherine P Hurst
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:

As Recieved at Laboratory: On Ice: (Yes) / No Temp 4.4 °C Total Bottles 13

Notes:

Added via by BNR 06/16/2016 16:44

Microbac Laboratories, Inc., New York Division

Chain of Custody

J6F0818

Client: **Town of Vestal**

Project: **Monthly**

Project Number: **Town of Vestal Monthly/Quarterly**

Field Route ID: **NY-Route 1 Bing**

Tenatively Scheduled: **6/14/2016**

Report To:
Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Invoice To:
Darlene Skiba
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone :(607) 748-1514

TAT 7 days

Sample ID: 1-2A Raw

Lab Sample ID: J6F0818-01
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 06-22-16 0830

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: 1-2A Finished

Lab Sample ID: J6F0818-02
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 06-22-16 0832

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14

Total Containers: 2

Sample ID: 1-3 Raw

Lab Sample ID: J6F0818-03
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 06-22-16 0936

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14

Microbac Laboratories, Inc., New York Division

Chain of Custody

J6F0818

Client: **Town of Vestal**
Project: **Monthly**
Project Number: **Town of Vestal Monthly/Quarterly**
Field Route ID: **NY-Route 1 Bing**
Tenatively Scheduled: **6/14/2016**

		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	
		Total Containers:	2

Sample ID: 1-3 Finished

Lab Sample ID: J6F0818-04
Matrix: Drinking Water
Type: Grab
Sampled Date & Time: 06-22-16 0836

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	
		Total Containers:	2

Sample ID: 4-2 Raw

Lab Sample ID: J6F0818-05
Matrix: Drinking Water
Type: Grab
Sampled Date & Time: 06-22-16 0851

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	
		Total Containers:	2

Sample ID: 4-2 Finished

Lab Sample ID: J6F0818-06
Matrix: Drinking Water
Type: Grab
Sampled Date & Time: 06-22-16 0856

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	

Microbac Laboratories, Inc., New York Division

Chain of Custody

J6F0818

Client: **Town of Vestal**

Project: **Monthly**

Field Route ID: **NY-Route 1 Bing**

Project Number: **Town of Vestal Monthly/Quarterly**

Tenatively Scheduled: **6/14/2016**

524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	
		Total Containers:	2

Sample ID: Trip Blank

Lab Sample ID: **J6F0818-07**
Matrix: Drinking Water
Type: Trip Blank

Sampled Date & Time: 06-16-16 1708

PWSID:		**Point Type:**		**Compliance Start:**	
Sampling Point:		**Frequency**		**Compliance End:**	
Point No:		**Num/Frequency**		**Sample Location:**	

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear Vial, Ascorbic Acid, HCL	
524.2 VOC NY	EPA 524.2, Rv 4.1		14
		V-40ml Clear vial, HCL	
		Total Containers:	1

Sampled by: Bethany Robinson	Date/Time: 06-22-16 0900	Received by:
Printed Name: Bethany Robinson		Printed Name:
Relinquished by: Bethany Robinson	Date/Time: 6-22-16 1430	Received by: Catherine P. Hurst
Printed Name: Bethany Robinson		Printed Name: Catherine P Hurst
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:

As Recieved at Laboratory: On Ice: (Yes) / No Temp 2.4 °C Total Bottles 13

Notes:

Added via by BNR 06/16/2016 16:44