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August 4, 2017

David Szymanski
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Ave.
Buffalo, New York 14203-2915

Re: **Periodic Review Report (July 7, 2016, through July 7, 2017), Former Dowell Facility,
Depew, New York**

Dear Mr. Szymanski,

Please find enclosed one electronic copy (submitted via e-mail) of the above-referenced document. The original signed certification form has been mailed to your attention at the New York State Department of Environmental Conservation Regional Office address listed above.

If you have any questions or comments, please call me at (281) 285-4747. I can also be reached by e-mail at cocianni-v@slb.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "V. Cocianni", with a stylized flourish above it.

Virgilio Cocianni
Remediation Manager

Enclosures

c: Matt Focucci/New York State Department of Health
Jim Strunk/The Dow Chemical Company
Cathy Barnett/CH2M HILL Engineers, Inc.

Periodic Review Report (July 7, 2016, through July 7, 2017)

Former Dowell Depew Facility

3311 Walden Avenue, Depew, New York

Prepared for
New York State Department of
Environmental Conservation

August 2017

On Behalf of:

Schlumberger

and



Prepared by:

ch2mSM

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Schlumberger Technology Corporation and
The Dow Chemical Company

August 2017



CH2M HILL Engineers, Inc.

Executive Summary

On behalf of the Volunteers (Schlumberger Technology Corporation [STC] and The Dow Chemical Company [Dow]), CH2M HILL Engineers, Inc. (CH2M), has prepared this periodic review report (PRR) in accordance with the site management plan (SMP; URS Corporation [URS] 2011) for the former Dowell Depew Facility (site) located in Depew, New York. The site entered into the New York State Department of Environmental Conservation (NYSDEC) Voluntary Cleanup Program (VCP) on February 26, 2001—Voluntary Cleanup Agreement No. B9-0586-00-10, Site No. V-00410-9. The PRR was prepared as required in the SMP for the periodic submittal of data, information, recommendations, and certifications to NYSDEC.

Dowell Schlumberger Incorporated (Dowell, a defunct joint venture between STC and Dow) operated a facility at 3311 Walden Avenue in the Village of Depew located to the east of Buffalo, New York. Former activities at the site included servicing industrial facilities and limited oilfield-related projects. In the late 1980s, Dowell discontinued operations at the site, and the facility was permanently closed. After site operations ceased, the Volunteers performed site investigations to determine the nature and extent of contamination in site soil or groundwater, or both, that may be attributed to previous site activities.

The results of site investigations indicated elevated concentrations of volatile organic compounds (VOCs) in both soil and groundwater at the site. Additionally, asbestos-containing material was identified in several of the onsite building structures. The Volunteers subsequently entered the site into the NYSDEC VCP, and remedial actions were initiated in October 2003. Remedial actions conducted between October 2003 and May 2004 included building or structure demolition, asbestos-containing material abatement, contaminated soil excavation and disposal, monitoring well removal or installation, and site restoration. No engineering controls were installed as part of the site remedy; however, a Declaration of Covenants and Restrictions granted to NYSDEC was recorded with the Erie County Clerk on June 22, 2005.

Following completion of the remedial actions, but before issuance of the Certificate of Completion by NYSDEC, a long-term monitoring program consisting of quarterly groundwater sampling of onsite monitoring wells was instituted for the site. A final remedial action report was completed and submitted to NYSDEC in September 2010 (URS 2010). The SMP was prepared and submitted to NYSDEC in May 2011. NYSDEC issued a Certificate of Completion for the site remediation on December 7, 2011. Since this time, the long-term monitoring program and site maintenance activities have been conducted in accordance with the SMP and NYSDEC-approved modifications.

During the reporting period, the Volunteers, with NYSDEC-approval, operated and decommissioned the onsite in situ thermal treatment (ISTT) system used to remediate the residual VOC contamination in onsite groundwater. The ISTT system operated from February 2016 through October 2016 and was decommissioned in November 2016. The site was restored to its original condition in December 2016. During site restoration activities, ISTT extraction wells X-A-1, X-A-3, and X-C-3 were converted into long-term monitoring wells to replace the previously abandoned site monitoring wells MW-06S, MW-06D, and RW-01. Post-ISTT remedy groundwater confirmation samples were collected from X-A-1, X-A-3, and X-C-3 in December 2016 and February 2016. A final engineers report (FER) was summarily prepared and submitted to NYSDEC in March 2017 (CH2M 2017). Groundwater samples were collected from each site monitoring well in June 2017 in accordance with SMP requirements and NYSDEC requests.

This PRR summarizes the site maintenance and monitoring activities conducted during the reporting period of July 7, 2016, to July 7, 2017. The June 2017 groundwater data and the June 2017 site inspection form, completed during the site monitoring event, indicate that the remedy continues to perform as designed. Site institutional controls remain in place as required, and no areas of noncompliance were identified during the reporting period.

Based on the groundwater data since the ISTT remedy was completed, it is recommended that groundwater monitoring and reporting activities continue into the next PRR reporting period in accordance with the SMP

and that groundwater samples be collected from X-A-1, X-A-3, X-C-3, RW-02, MW-07S, and MW-07D in late October 2017 (that is, no sooner than 1 year post ISTT system shutdown) and analyzed for VOCs.

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Abbreviations and Acronyms

CH2M	CH2M HILL Engineers, Inc.
Dow	The Dow Chemical Company
EC	engineering control
FD	field duplicate
FER	final engineers report
IC	institutional control
ISTT	in situ thermal treatment
MS	matrix spike
MSD	matrix spike duplicate
NYSDEC	New York State Department of Environmental Conservation
PRR	periodic review report
QA	quality assurance
QC	quality control
SCG	applicable standards, criteria and guidelines
site	Former Dowell Depew Facility
SMP	Site Management Plan
STC	Schlumberger Technology Corporation
TCL	Target Compound List
TestAmerica	TestAmerica Laboratories, Inc.
URS	URS Corporation
VCP	Voluntary Cleanup Program
VOC	volatile organic compound

Introduction and Site Overview

This periodic review report (PRR) was prepared for the Former Dowell Depew Facility (site) located in Depew, New York. The PRR was prepared in accordance with the site management plan (SMP) for the periodic submittal of data, information, recommendations, and certifications to the New York State Department of Environmental Conservation (NYSDEC). Fieldwork reported in this PRR was performed in accordance with the SMP (URS Corporation [URS] 2011) and NYSDEC-approved modifications (NYSDEC 2014; Szymanski 2014).

1.1 Purpose

The PRR provides the following information for the reporting period to NYSDEC (URS 2011):

- Identification, assessment, and certification of institutional controls (ICs) required by the remedy for the site
- Results of the required annual site inspections and severe conditions inspections, if applicable
- Applicable inspection forms and other records generated for the site during the reporting period, in electronic format
- A site evaluation, including compliance of the remedy, new conclusions or observations regarding site contamination based on inspections or data generated for the media monitored, recommendations regarding changes to the remedy and/or monitoring plan, and the overall performance and effectiveness of the remedy

1.2 Site Location

The site is located east of Buffalo, New York, at 3311 Walden Avenue in the Village of Depew (Figure 1-1). The site is located in a mixed residential and industrial/commercial area. Properties surrounding the site include Walden Avenue to the north, a CSX Transportation railroad yard to the south, a lumber yard and supply store (84 Lumber) to the east, and a mattress manufacturer (Fibrix [previously known as Buffalo Batt and Felt]) to the west (Figure 1-2). A residential neighborhood and an abandoned recycling facility (EnviroSense Corporation) are located adjacent to the site on the northern side of Walden Avenue.

The site is approximately 1.8 acres and relatively flat with a gentle downward slope to the north-northwest toward Walden Avenue. Maximum relief across the site (that is, from south to north) is about 4 feet, and surface water flows from south to north across the site. The property is currently vacant, and the ground surface consists primarily of gravel and grass with small- to medium-sized trees on portions of the site. A 6-foot-high chain-linked fence with a locked entrance gate along Walden Avenue surrounds the site.

1.3 Site History

Former activities at the site included servicing industrial facilities and limited oilfield-related projects. Various industrial cleaning and oilfield-related chemicals were stored onsite and transferred into tank trucks for use at different job sites (URS 2004). A former railroad siding, which has been removed, traversed the site from east to west. Former onsite building structures included the following: a two-story office building, a chemical storage building, a one-story office and maintenance shop, an acid plant, a bulk cement plant, cement silos, an 8,000-gallon diesel aboveground storage tank, a 1,000-gallon gasoline underground storage tank with dispenser, a mud separator, an oil/water separator, and a hydrochloric acid aboveground storage tank (Figure 1-2). In the late 1980s, operations at the site were discontinued, and the facility was permanently closed. Building structures were razed during the 2003 to 2004 remedial action, and the site has been inactive since (URS 2011).

1.4 Previous Site Investigations and Remedial Action Activities

Site investigations and remedial actions were performed after site operations were discontinued. A chronology of the site investigations and remedial actions is presented in Table 1-1.

During the reporting period, the Volunteers, with NYSDEC-approval operated and decommissioned the onsite in situ thermal treatment (ISTT) system that was remediating the residual volatile organic compounds (VOC) in onsite groundwater. The ISTT system ran from February 2016 through October 2016 and was decommissioned in November 2016. The site was restored to its pre-ISTT remedy condition in December 2016. During site restoration activities, ISTT extraction wells X-A-1, X-A-3, and X-C-3 were converted into long-term monitoring wells to replace the previously abandoned site monitoring wells MW-06S, MW-06D, and RW-01. Post-ISTT remedy groundwater confirmation samples were collected from X-A-1, X-A-3, and X-C-3 in December 2016 and February 2016 and were included in the final engineer's report (FER), which was summarily prepared and submitted to NYSDEC in March 2017 (CH2M 2017).

Institutional Controls and Engineering Controls Plan Compliance

This section summarizes the IC and engineering control (EC) requirements for the site.

2.1 Institutional Control and Engineering Control Requirements

A series of ICs is required by the Declaration of Covenants and Restrictions to (1) prevent future exposure to remaining contamination and (2) limit the use and development of the site to commercial uses only.

Adherence to the ICs on the site is required by the Declaration of Covenants and Restrictions and was implemented under the SMP. The ICs for the site consist of the following:

- Compliance with the Declaration of Covenants and Restrictions and the SMP by the Grantor and the Grantor's successors and assigns.
- Groundwater monitoring must be performed as defined in the SMP. (Alterations to the groundwater monitoring program, schedule, or sampling and analysis methods require prior approval by NYSDEC before implementation.)
- Data and information pertinent to site management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP. (Alterations to the frequency of reporting to the NYSDEC require prior approval by NYSDEC before implementation.)

The site has a series of ICs in the form of site restrictions. Adherence to the ICs is required by the Declaration of Covenants and Restrictions. The following site restrictions apply to the Controlled Property:

- The property may only be used for restricted commercial use, provided that the long-term ICs included in the SMP are employed.
- The property may not be used for a higher level of use, such as unrestricted or restricted residential use, without additional remediation and amendment of the Declaration of Covenants and Restrictions, as approved by NYSDEC.
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP.
- The use of the groundwater underlying the property is prohibited without treatment, rendering it safe for intended use.
- The potential for vapor intrusion must be evaluated for any buildings developed on the site, and any potential impacts that are identified must be monitored or mitigated.
- Vegetable gardens and farming on the property are prohibited.

The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, the following: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by NYSDEC, and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow, and will be made by a Qualified Environmental Professional as defined by 6NYCRR Part 375-1.2 (ak).

ICs identified in the Declaration of Covenants and Restrictions may not be discontinued without an amendment to or extinguishment of the Declaration of Covenants and Restrictions. To date, no changes have been made to the ICs, and monitoring activities have been performed in compliance with applicable requirements.

2.2 Institutional Control and Engineering Control Certification

The NYSDEC IC/EC Certification Form has been completed by a CH2M HILL Engineers, Inc. (CH2M) New York Registered Professional Engineer for this reporting period and is provided as Appendix A. Included with the signed IC/EC certification form are copies of the publicly owned treatment works discharge permit and the underground injection control permit associated with the ISTT remedy. The permits have been included with IC/EC certification form in accordance with question number 4 of the site details section of the IC/EC form; permits were closed out during the decommissioning stage of the ISTT remedy.

Monitoring Plan Compliance

3.1 Monitoring Plan Requirements

On June 16, 2017, NYSDEC approved the modification of a portion of the annual groundwater sampling locations. Long-term site monitoring groundwater samples will be collected from X-A-1, X-A-3, and X-C-3 in place of the previously abandoned site monitoring wells MW-06S, MW-06D, and recovery well RW-01 for long-term site monitoring activities (NYSDEC 2017). In accordance with the June 16, 2017, NYSDEC letter, the Volunteers were obligated to collect representative groundwater samples for target compound list (TCL) VOC analysis from X-A-1, X-A-3, X-C-3, RW-02, MW-01, MW-02, MW-04, MW-07S, and MW-07D during the June 2017 annual sampling event. The NYSDEC-approved modified monitoring plan requirements were incorporated into the June 2017 annual sampling event.

3.2 Groundwater Level Measurements

Depth to groundwater was measured at each site monitoring and recovery well and piezometer on June 22, 2017. Depths were measured relative to the top of casing and were recorded to the nearest 0.01 foot. Table 3-1 presents the depth to groundwater measurements and groundwater elevations for each site monitoring well and piezometer for the June 2017 sampling event.

Piezometers PZ-07S and PZ-07D (whose stick-ups were cut down, capped off at ground level, and subsequently covered over with gravel in order to facilitate the construction of the ISTT system) were not accessible at the time of groundwater gauging activities and, therefore, were not measured. Because of the number of the gauging locations within this portion of the site, piezometers PZ-07S and PZ-07D were not restored to their previous construction after completion of the ISTT remedy; however, should it be deemed necessary, piezometers PZ-07S and PZ-07D can be restored to their previous construction.

3.3 Groundwater Sampling and Analysis

On June 23, 2017, groundwater samples were collected from site monitoring wells X-A-1, X-A-3, X-C-3, RW-02, MW-01, MW-02, MW-04, MW-07S, and MW-07D, using disposable HydraSleeves. HydraSleeves were deployed at the appropriate depths to collect a representative groundwater sample from the mid-point of each well screen interval for site monitoring wells RW-02, MW-01, MW-02, MW-04, MW-07S, and MW-07D. In accordance with the NYSDEC's June 16, 2017, response letter, HydraSleeves for site monitoring wells X-A-1, X-A-3, and X-C-3 were set at specific screen depths, so that the groundwater samples collected were comparable to the site monitoring wells that were decommissioned (that is, site monitoring wells MW-06D, RW-01, and MW-06S) due to the implementation of the ISTT remedy. The HydraSleeves were later retrieved, and a representative groundwater sample was collected from each HydraSleeve and placed in laboratory-supplied sample bottleware. After sample collection was completed at each well, groundwater water quality parameters were recorded using a multi-probe water quality instrument, and excess sample water was returned to its well. Groundwater samples collected during the sampling event were placed in a laboratory-supplied cooler, packed on ice, and delivered to TestAmerica Laboratories, Inc. (TestAmerica) in Buffalo, New York, for laboratory analyses. The groundwater samples were analyzed for TCL VOCs using U.S. Environmental Protection Agency Method 8260C.

Quality assurance (QA) and quality control (QC) samples were collected in accordance with the site-specific quality assurance project plan (URS 2011). QA/QC samples collected during the sampling event included a field duplicate (FD), matrix spike (MS)/matrix spike duplicate (MSD), and trip blank sample. Equipment rinsate blank samples were not collected during the sampling event, because only disposable sampling equipment was used. FDs were collected at a rate of 1 for every 10 native samples. MS and MSD samples

were collected at a rate of 1 for every 20 native samples. A trip blank sample was included in the sample cooler provided by and submitted to TestAmerica.

3.4 Data Quality Assessment

CH2M performed a data review, verification, and validation of the June 2017 annual monitoring event sample data to assess the quality of the analytical results associated with the groundwater samples. To reflect data usability limitations, data were qualified using appropriate qualifier flags. The precision and accuracy of the data, as measured by field and laboratory QC indicators, suggest that the project analytical requirements were met, and the data are acceptable for project decision-making as qualified. The analytical laboratory report for the June 2017 annual monitoring event is provided as Appendix B, and the data quality evaluation report is provided as Appendix C.

3.5 Groundwater Monitoring Results

3.5.1 Groundwater Elevations and Groundwater Flow

Groundwater elevation measurements for the June 2017 sampling event are presented in Table 3-1. Figure 3-1 presents the potentiometric surfaces for the two lithologic units present onsite (defined as the upper and lower till units) as measured in June 2017. The general groundwater flow direction for both lithologic units in relation to the ISTT remediation area (that is, the area of historical groundwater contamination) is to the west. The groundwater flow directions for the two lithologic units are consistent with past measurements (CH2M 2015a; CH2M 2016).

3.5.2 Evaluation of Groundwater Results

Table 3-2 presents the analytes detected in groundwater samples collected during the June 2017 annual monitoring event.

Five VOCs were detected, and three VOCs exceeded applicable standards, criteria, and guideline (SCG) values at one or more groundwater/recovery wells during the June 2017 sampling event. The three VOCs exceeding applicable SCG values are total 1,2-dichloroethene, cis-1,2-dichloroethene, and vinyl chloride (Figure 3-2).

The Level IV electronic data deliverable has been prepared and is being submitted to NYSDEC as a separate deliverable at the same time as the PRR.

3.5.3 Monitoring Deficiencies

There were no monitoring deficiencies during the reporting period.

3.5.4 Conclusions and Recommendations

Overall, the 2004 excavation remedy and the 2016 ISTT remedy have significantly reduced the residual onsite VOC groundwater contaminant mass. Prior to the implementation of the 2016 ISTT remedy, 14 detected VOCs exceeded their applicable SCG values in onsite groundwater samples collected during the 2015 target treatment zone investigation, with several of these VOC detections at concentrations 2 to 4 orders of magnitude greater than their applicable SCG value (CH2M 2015b). Post-ISTT remedy groundwater samples indicate three VOCs with detectable concentrations only slightly greater than their applicable SCG values.

Because residual VOCs in groundwater persist in several site monitoring wells slightly greater than their applicable SCG values and because water quality values within the ISTT area (specifically temperature and oxidation-reduction potential) have not yet returned to their pre-ISTT remedy levels, the Volunteers recommended that groundwater monitoring and reporting activities continue into the next PRR reporting period in accordance with the SMP. Average groundwater temperature inside the ISTT area in February 2017

was approximately 43 degrees Celsius compared to 28 degrees Celsius in June 2017. Based on the current rate of heat loss within the ISTT area, average groundwater temperature inside the ISTT area is expected to be comparable to the average groundwater temperature outside the ISTT area (approximately 18 degrees Celsius) by October 2017 when the next sampling event is scheduled.

The Volunteers recommend that groundwater samples and water quality parameters be collected in late October 2017 (that is, no sooner than 1 year post ISTT system shutdown) for TCL VOC analysis from site monitoring wells X-A-1, X-A-3, X-C-3, RW-02, MW-07S, and MW-07D. Upon confirming that the water quality values within the ISTT area have returned to pre-ISTT remedy levels and that the residual groundwater exceedances are confined to the VOC constituents detected in June 2017 (at concentrations only slightly greater than their applicable SCG values), the Volunteers will formally petition NYSDEC to remove the monitoring and reporting requirements from the SMP and approve the Volunteer's request for abandonment of site piezometer and monitoring wells.

Operation, Maintenance, and Inspections Compliance

4.1 Operation and Maintenance Plan Requirements

The current site remedy does not rely on mechanical systems (such as groundwater pump and treat or air sparge/soil vapor extraction) to protect public health and the environment. The 2016 remedial action (ISTT system) was a mechanical system, but was not required to protect public health and the environment. Permits associated with the operation of the ISTT system are attached to the signed IC/EC form provided as Appendix A.

Because this report focuses on the current remedy rather than the ISTT, operation and maintenance are not applicable; however, the SMP does require sitewide inspections to be conducted concurrently with the monitoring plan.

4.2 Site Inspections

The CH2M project manager performed a sitewide inspection on June 22, 2017, as required by the SMP. A copy of the completed sitewide inspection form is provided as Appendix D. The sitewide inspection indicated no significant changes in the conditions of the site since the time of the last PRR, dated August 2016 (CH2M 2016).

During the reporting period, the following maintenance activities were performed:

- Grass between the perimeter fence and Walden Avenue was mowed.
- Vegetation (grass, bushes, and small trees) within the perimeter fence was brush-hogged.
- To the extent possible, vegetation growing within the perimeter fence was removed.
- Trash that had accumulated along the road easement between the perimeter fence and Walden Avenue was removed and disposed of offsite.

Remedy Performance, Effectiveness, and Protectiveness

This section summarizes the remedy performance, effectiveness, and protectiveness based on inspections and data generated during this reporting period, and as the data compare to historical data.

5.1 Remedy Performance

Previous documents have detailed the remedy performance as it relates to site soil (URS 2011, 2013). The remedy performance related to site groundwater is demonstrated by the decreasing VOC groundwater concentrations since remedial action activities were completed in 2004 and 2016.

5.2 Remedy Effectiveness

The remedy was effective in removing soil with VOC concentrations exceeding soil cleanup objectives for restricted commercial use (URS 2013). The 2004 and 2016 remedial actions have also been effective in reducing VOC concentrations in groundwater to less than SCG values, except for the areas where residual VOC groundwater contamination slightly exceeds SCG values for three compounds.

Table 5-1 presents the engineer's estimated contaminant mass removed from the site during the 2004 and 2016 remedial action activities. Based on the vinyl chloride concentrations detected during the June 2017 groundwater sampling event, the mass of contamination remaining onsite is estimated be less than 0.01 pounds.

5.3 Remedy Protectiveness

The remedy has been protective of human health and the environment by reducing the VOC concentrations in soil to less than the applicable soil cleanup objectives for commercial sites. The implementation of the 2016 ISTT remedy has either eliminated or reduced VOC groundwater concentrations to a small fraction of concentrations prior to implementation of the remedy. The continued degradation of the residual onsite VOC contaminants is expected to eliminate the possibility of future contaminant exposure.

Conclusions and Recommendations

The site is compliant with the requirements of the SMP for the July 7, 2016 to July 7, 2017 reporting period. The June 2017 groundwater sampling data and the June 2017 site inspection indicate that the remedy continues to be effective in protecting human health and the environment, and that the remaining site contamination is stable or decreasing. ICs remain in place, as required.

There were no areas of noncompliance during the reporting period. Based on the groundwater data collected since the ISTT remedy was completed, it is recommended that groundwater monitoring and reporting activities continue into the next PRR reporting period in accordance with the SMP and that groundwater samples be collected for VOC analysis from X-A-1, X-A-3, X-C-3, RW-02, MW-07S, and MW-07D in late October 2017 (that is, no sooner than 1 year post ISTT system shutdown).

Works Cited

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Tables

Table 1-1. Chronology of Site Investigations and Remedial Actions*Periodic Review Report (July 7, 2016, through July 7, 2017)**Former Dowell Depew Facility, Depew, New York*

Date	Work Performed
September 1989	Removal and offsite disposal was completed of the 1,000-gallon UST and its associated dispenser, the 8,000-gallon AST, and contaminated soils.
May 1990	Site investigation was performed to determine the presence or absence of chemical constituents in site soil and groundwater. Low-level VOC concentrations were detected in shallow groundwater.
January 1992	Physical and chemical evaluation of groundwater was performed at former UST location. No contamination was detected in the groundwater sample.
September 1996 to March 1997	Monitoring well installation (MW-01, MW-02, MW-03, and MW-04) and sampling: VOC concentrations exceeded SCG values at MW-03, and lead exceeded the MCL at MW-02 and MW-04. The mud separator was decommissioned.
November 1997	Supplemental investigation was performed, soil samples were collected, and groundwater samples were collected from existing monitoring wells.
July 1998	Removal and offsite disposal was completed of former acid plant concrete revetment, 500 tons of VOC-contaminated soil from around the acid plant, cement bulk plant debris, and other miscellaneous debris.
July 1998 to January 2000	Groundwater samples for VOCs were collected four times during this period from MW-01 through MW-04.
February 26, 2001	The Volunteers entered into a Voluntary Cleanup Agreement with NYSDEC.
July 2001	Site investigation was performed to collect soil, sediment, and groundwater samples. Hydraulic conductivity testing was performed. An asbestos survey and land survey of investigation locations was completed.
October 2003 to May 2004	Remedial activities were completed, including asbestos abatement, building/structure demolition, monitoring well abandonment and installation, and excavation and offsite disposal of approximately 4,610 tons of VOC-contaminated soil.
October 2005	Installation of monitoring well MW-07D was completed.
April 2008	Offsite groundwater investigation was completed.
June 2009	Six injection wells upgradient of monitoring wells MW-06S and MW-06D were installed and implemented; 377 gallons of hydrogen peroxide and sodium persulfate were injected between August and November 2009.
September 2010	The final remedial action report was prepared and submitted to NYSDEC.
May 2011	A site management plan was submitted to NYSDEC.
December 2011	NYSDEC issued a Certificate of Completion for the site remediation.
August 2013	The first Periodic Review Report was submitted and presented a summary of the remedy performance during the period from December 7, 2011, through July 7, 2013.
August 2014	The second Periodic Review Report was submitted and presented a summary of the remedy performance during the period from July 7, 2013, through July 7, 2014.
August 2015	The third Periodic Review Report was submitted and presented a summary of the remedy performance during the period from July 7, 2014, through July 7, 2015.
August 2015	A remedial action work plan was prepared and submitted to NYSDEC for the final onsite remedy to remediate onsite VOC-impacted groundwater.
October 2015	Installation of an ISTT system was completed to remediate onsite VOC-impacted groundwater.
February 2016	Start-up of ISTT system was completed to remediate onsite VOC-impacted groundwater.
August 2016	The fourth Periodic Review Report was submitted and presented a summary of the remedy performance during the period from July 7, 2015, through July 7, 2016.
October 2016	Operation of the ISTT system was ceased to remediate onsite VOC-impacted groundwater.
November 2016 to December 2016	Decommissioning of the ISTT system and site restoration were completed. Recovery wells X-A-1, X-A-3, and X-C-3 were retrofitted into long-term site monitoring wells to replace previously abandoned site monitoring wells MW-06S, MW-06D, and RW-01.
December 2016	A post-ISTT confirmation sampling event was completed.
February 2017	A post-ISTT confirmation sampling event was completed.
June 2017	A post-ISTT confirmation and long-term monitoring sampling event was completed.

Notes:

AST = aboveground storage tank

ISTT = in situ thermal treatment

MCL = maximum contaminant level

NYSDEC = New York State Department of Environmental Conservation

SCG = applicable standards, criteria, and guidelines

UST = underground storage tank

VOC = volatile organic compound

Table 3-1. Groundwater Elevation Measurements

Periodic Review Report (July 7, 2016, through July 7, 2017)

Former Dowell Depew Facility, Depew, New York

Well ID	Northing (feet) ^a	Easting (feet) ^b	Ground Surface Elevation (U.S. survey feet) ^b	Top of Casing Elevation (U.S. survey feet) ^b	Total Depth (feet btoc)	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Depth to Water Measured June 23, 2017 (feet btoc)	Groundwater Elevation June 23, 2017 (feet)
MW-01	1060918.910	1118926.532	680.66	680.38	29.72	20.0	30.0	10.83	669.55
MW-02	1061207.358	1119169.445	679.10	678.83	28.03	18.3	28.3	2.05	676.78
MW-04	1061182.237	1119049.105	678.14	677.71	27.57	18.0	28.0	2.05	675.66
MW-07S	1061150.146	1118858.431	677.17	676.66	19.49	9.5	19.5	4.62	672.04
MW-07D	1061142.027	1118861.752	677.43	676.83	29.90	20.0	30.0	5.30	671.53
X-A-1	1061158.295	1118933.247	677.54	680.62	33.25	2.0	31.0	7.35	673.27
X-A-3	1061165.093	1118970.539	677.76	680.47	28.43	2.5	28.5	3.71	676.76
X-C-3	1061130.737	1118958.618	677.76	680.80	28.89	2.0	27.0	9.22	671.58
RW-02	1061102.659	1119042.870	678.66	681.16	18.50	6.0	16.0	4.41	676.75
PZ-01S	1061010.277	1118925.124	678.44	681.49	15.05	2.0	12.0	6.72	674.77
PZ-01D	1061004.001	1118926.203	678.86	681.88	27.52	22.5	24.5	7.07	674.81
PZ-02S	1060920.110	1118923.845	680.72	684.53	15.81	10.0	12.0	6.92	677.61
PZ-03S	1061038.815	1119046.902	680.09	683.08	14.99	10.0	12.0	4.86	678.22
PZ-03D	1061043.063	1119052.978	680.38	682.60	26.22	22.0	24.0	4.67	677.93
PZ-04S	1061069.999	1118915.093	678.23	681.23	15.00	10.0	12.0	8.00	673.23
PZ-04D	1061074.170	1118919.821	678.24	681.44	27.70	22.5	24.5	7.07	674.37
PZ-05S	1061114.176	1119128.343	679.56	682.19	14.63	10.0	12.0	5.21	676.98
PZ-05D	1061117.993	1119132.212	679.53	682.85	27.62	22.3	24.3	5.77	677.08
PZ-07S	1061161.630	1119094.894	679.01	681.93	15.42	10.5	12.5	NM	-
PZ-07D	1061164.545	1119103.472	679.01	681.91	27.90	23.0	25.0	NM	-
PZ-08S	1061181.135	1119044.411	678.25	681.90	15.45	9.8	11.8	5.73	676.17
PZ-09S	1061202.304	1119170.928	679.21	683.16	16.25	10.3	12.3	6.86	676.30

^a North American Datum of 1983 (2011), New York State Plane Coordinate System (West Zone), United States survey feet.

^b North American Vertical Datum of 1988, United States survey feet

Notes:

An updated survey was performed in April 2015 to verify and/or establish ground surface elevations, top of casing elevations, and horizontal and vertical coordinates of wells.

- = not applicable

bgs = feet below ground surface

btoc = feet below top of casing

ID = identification

NM = not measured

MW = monitoring well

PZ = piezometer

Table 3-2. Detected Analytes in Groundwater– ISTT Post-Remedy

Periodic Review Report (July 7, 2016, through July 7, 2017)

Former Dowell Depew Facility, Depew, New York

	Location	X-A-1	X-A-3	X-C-3	RW-02	MW-01	MW-02	MW-04	MW-07S	MW-07D
	Sample ID	X-A-1-062317	X-A-3-062317	X-C-3-062317	RW-02-062317	MW-01-062317	MW-02-062317	MW-04-062317	MW-07S-062317	MW-07D-062317
	Sample Date	6/23/2017	6/23/2017	6/23/2017	6/23/2017	6/23/2017	6/23/2017	6/23/2017	6/23/2017	6/23/2017
Analyte	SCG Values									
VOC (µg/L)										
1,1,1-Trichloroethane	5	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U	0.820 U
1,1-Dichloroethane	5	0.380 U	2.16	0.801 J	0.380 U	0.380 U	0.380 U	0.380 U	0.691 J	0.380 U
1,1-Dichloroethene	5	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U	0.290 U
1,2-Dichloroethane	0.6	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U	0.210 U
1,2-Dichloroethene, Total	5 ^a	2.61	2.48	2.34	6.12	0.810 U	0.810 U	0.810 U	0.810 U	0.810 U
Acetone	50	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U	3.00 U
Benzene	1	0.518 J	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U	0.410 U
Chloroethane	5	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U	0.320 U
cis-1,2-Dichloroethene	5	2.61	2.48	2.34	6.12	0.810 U	0.810 U	0.810 U	0.810 U	0.810 U
Ethylbenzene	5	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U	0.740 U
Tetrachloroethene	5	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U	0.360 U
Trichloroethene	5	0.460 U	0.460 U	0.460 U	3.14	0.460 U	0.460 U	0.460 U	0.460 U	0.460 U
Vinyl chloride	2	5.41 J	5.23	9.15	2.11	0.900 U	0.900 U	0.900 U	0.900 U	0.900 U
Xylenes, Total	5	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U	0.660 U

^aScreening level for cis-1,2-Dichloroethene used for total 1,2-Dichloroethene.

Notes:

SCG Values = Applicable standards, criteria, and guideline values. Division of Water Technical & Operational Guidance Series (TOGS) 1.1.1 New York State

Ambient Water Quality Standards and Guidance Values and Ground Water Effluent Limitations

- Table 1 and Table 5 - Class GA; June 1998; modified January 1999; modified April 2000; modified June 2004

Bold indicates that the analyte was detected.

Grey shading indicates that the result exceeded the screening level.

µg/L = microgram per liter

ID = identification

ISTT = in situ thermal treatment

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

SCG = applicable standards, criteria, and guidelines

U = The analyte was analyzed for but was not detected above the reported sample quantitation limit.

VOC = volatile organic compound

Table 3-3. Groundwater Quality - ISTT Post-Remedy
Periodic Review Report (July 7, 2016, through July 7, 2017)
Former Dowell Depew Facility, Depew, New York

		Location ID:	X-A-1	X-A-3	X-C-3	RW-02	MW-01	MW-02	MW-04	MW-07S	MW-07D
		Sample Date:	6/23/2017	6/23/2017	6/23/2017	6/23/2017	6/23/2017	6/23/2017	6/23/2017	6/23/2017	6/23/2017
		Media:	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Water Quality Parameter	Units										
Temperature	°C		31.56	22.96	28.72	23.38	15.61	17.11	16.68	19.96	15.51
Conductivity	mS/cm		1.139	0.606	0.801	0.461	0.774	0.957	4.522	1.034	0.761
Dissolved Oxygen	mg/L		4.87	6.96	6.06	4.75	8.32	10.41	6.22	3.83	7.65
pH	SU		7.65	7.5	7.83	7.41	7.5	7.81	7.37	7.33	7.68
Oxidation-reduction Potential	mV		-102	-105.9	-42.9	-1.8	-84.5	-122.9	-123.3	126.7	157.3

Notes:

Parameters were measured using a YSI water quality meter on June 23, 2017.

°C = degrees Celsius

ID = identification

mg/L = milligram per liter

mS/cm = milliSiemen per centimeter

mV = millivolt

SU = standard unit

Table 5-1. Estimated Contaminant Mass Removed from Site

Periodic Review Report (July 7, 2016, through July 7, 2017)

Former Dowell Depew Facility, Depew, New York

2004 Remedial Action - Contaminant mass removed not previously calculated or estimated, or both

Soil	1,2-Dichloroethene,		TOTAL
	Trichloroethene	Total	
Sample Location GPB-07 (VOC analyte concentration in mg/kg)	69	ND	
Sample Location GPB-08 (VOC analyte concentration in mg/kg)	3.1	1.1	
Sample Location GPB-09 (VOC analyte concentration in mg/kg)	53	ND	
Sample Location GPB-12 (VOC analyte concentration in mg/kg)	57	ND	
Geomean (VOC analyte concentration in mg/kg)	28	--	
Average (VOC analyte concentration in mg/kg)	46	0.3	
Soil (tons)	4,610	4,610	
Contaminant mass (pounds, geomean)	261	--	261
Contaminant mass (pounds, average)	420	3	422

Groundwater	cis-1,2-					TOTAL
	1,1,1-Trichloroethane	1,1-Dichloroethane	Dichloroethene	Trichloroethene	Vinyl Chloride	
Sample Location MW-03 (VOC analyte concentration in mg/L)	4.2	50	0.009	0.005	0.009	
Sample Location MW-06 (VOC analyte concentration in mg/L)	0.19	0.49	0.005	0.005	0.005	
Sample Location PZ-02 (VOC analyte concentration in mg/L)	0.012	0.009	9.5	60	1	
Geomean (VOC analyte concentration in mg/L)	0.21	0.60	0.08	0.11	0.04	
Average (VOC analyte concentration in mg/L)	1.5	16.8	3.2	20.0	0.3	
Groundwater (gallons)	346,800	346,800	346,800	346,800	346,800	
Contaminant mass (pounds, geomean)	0.6	1.7	0.2	0.3	0.1	3
Contaminant mass (pounds, average)	4.2	48.7	9.2	57.9	1.0	121

Source of Data

URS Corporation (URS). 2004. *Remedial Action Report for the Former Dowell Facility 3311 Walden Avenue Depew New York*. Depew, New York. July.

Process for Calculating Estimated Contaminated Mass in Soil:

1. Calculated the geomean and average concentration for trichloroethene and total 1,2-Dichloroethene for soil sample locations within excavation area
2. Multiplied trichloroethene and total 1,2-Dichloroethene concentrations by the total mass of soil excavated and disposed of offsite

Process for Calculating Estimated Contaminated Mass in Groundwater:

1. Calculated the geomean and average concentration for the five VOCs with the highest concentrations in groundwater at time of excavation
2. Multiplied the five VOC concentrations by the volume of groundwater removed and treated onsite during the excavation

2016 Remedial Action

Vapor	TOTAL
Contaminant mass (pounds)	6.8
Groundwater	TOTAL
Contaminant mass (pounds)	0.2

Source of Data

CH2M HILL Engineers, Inc. (CH2M). 2017. *Final Engineer's Report. Former Dowell Depew Facility 311 Walden Avenue, Depew, New York*. March.

Process for Calculating Estimated Contaminated Mass:

Calculated based on analytical data obtained from the vapor and liquid treatment processes during operation of the in situ thermal treatment system

Remedial Actions Combined	TOTAL
Contaminant mass (pounds, geomean)	271
Contaminant mass (pounds, average)	550

Notes:

-- = not applicable

mg/kg = milligram per kilogram

mg/L = milligram per liter

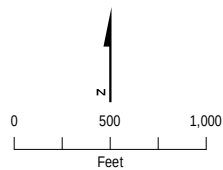
MW = monitoring well

ND = nondetect

PZ = piezometer

VOC = volatile organic compound

Figures





Notes:
1. Location of former buildings, tanks, concrete, and features is approximate.
Acronyms:
HCL = hydrochloric acid
UST = underground storage tank
Source:
Imagery: ESRI - Microsoft 2011

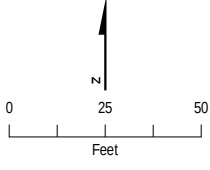
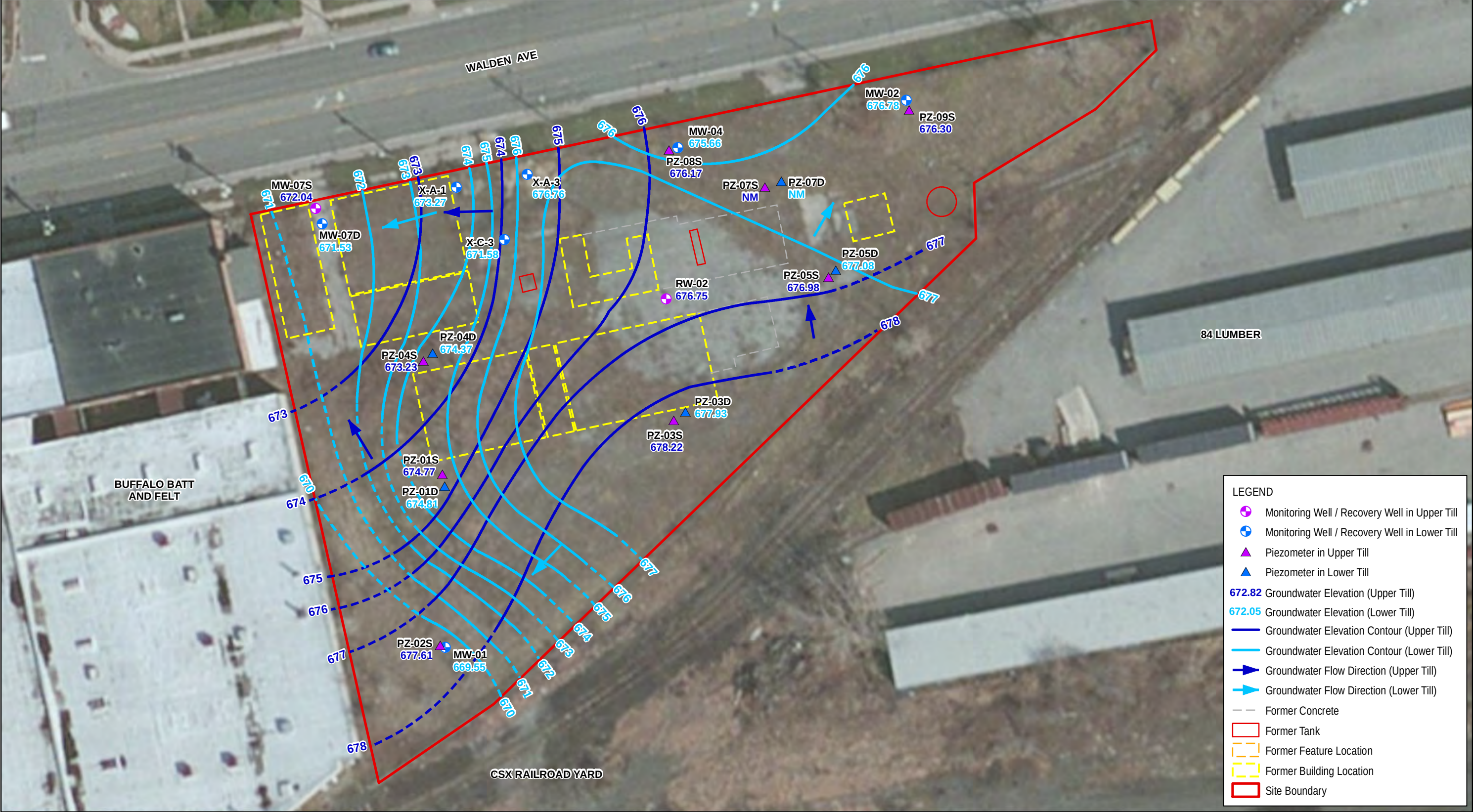


FIGURE 1-2
Site Map
Periodic Review Report
(July 7, 2016, through July 7, 2017)
Former Dowell Depew Facility, Depew, New York



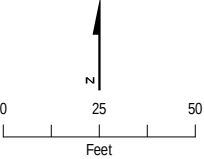


Notes:

1. Groundwater elevations are presented in feet.
2. Groundwater levels were gauged on June 22, 2017.
3. Groundwater contour lines are dashed where inferred.
4. Site monitoring wells were resurveyed in April 2015. This figure uses updated site monitoring well and piezometer horizontal coordinates and vertical elevations.
5. Location of former buildings, tanks, concrete, and features is approximate.

6. Site monitoring well X-C-3 excluded from Lower Till Groundwater Elevation Contour. Water level inside site monitoring well is still recovering from thermal treatment remedy.
7. Site piezometers PZ-07S and PZ-07D were not accessible at time of water level gauging activities; therefore groundwater elevation were not measured at these locations.

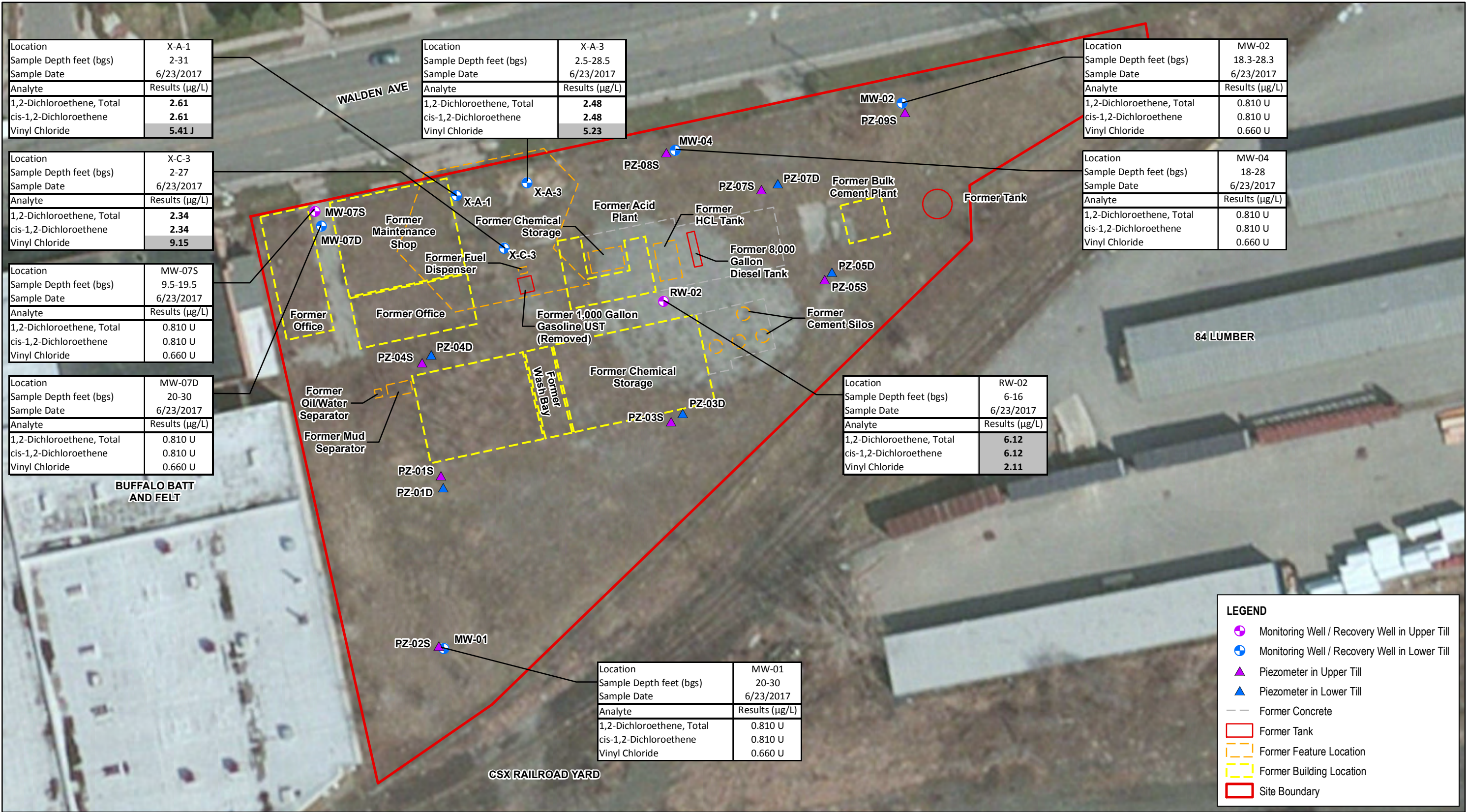
Acronym:
NM = not measured
Source:
Imagery: ESRI - Microsoft 2011



- LEGEND
- Monitoring Well / Recovery Well in Upper Till
 - Monitoring Well / Recovery Well in Lower Till
 - Piezometer in Upper Till
 - Piezometer in Lower Till
 - 672.82 Groundwater Elevation (Upper Till)
 - 672.05 Groundwater Elevation (Lower Till)
 - Groundwater Elevation Contour (Upper Till)
 - Groundwater Elevation Contour (Lower Till)
 - Groundwater Flow Direction (Upper Till)
 - Groundwater Flow Direction (Lower Till)
 - Former Concrete
 - Former Tank
 - Former Feature Location
 - Former Building Location
 - Site Boundary

FIGURE 3-1
Potentiometric Surface Map - June 2017
Periodic Review Report
(July 7, 2016, through July 7, 2017)
Former Dowell Depew Facility, Depew, New York





Notes:
1. J = The analyte was positively identified, the associated numerical value is the approximate concentration.
2. U = The analyte was analyzed for, but was not detected above the reported sample detection limit.
3. **Bold** indicates the analyte was detected
4. Shading indicates that the result exceeded applicable standards, criteria, and guideline (SCG) values.

Acronyms:
ft bgs = feet below ground surface
µg/L = micrograms per liter
VOC = volatile organic compound
Source:
Imagery: ESRI - Microsoft 2011

FIGURE 3-2
VOCs Exceeding SCG Values
Periodic Review Report
(July 7, 2016, through July 7, 2017)
Former Dowell Depew Facility, Depew, New York

ch2m

Appendix A

IC/EC Certification Form



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details **Box 1**

Site No. **V00410**

Site Name **Former Dowell Facility**

Site Address: 3311-3313 Walden Ave Zip Code: 14043
City/Town: Depew
County: Erie
Site Acreage: 1.8

Reporting Period: July 07, 2016 to July 07, 2017

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☒	☐
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2		
	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Description of Institutional ControlsParcelOwnerInstitutional Control**104.09-1-14**

Dowell Schlumberger Inc.

Ground Water Use Restriction
Landuse Restriction
O&M Plan
Monitoring Plan
Site Management Plan
Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan

Prohibition of groundwater use, restriction of use to industrial (may request commercial use from Relevant Agency), annual reporting, no constructions without approval of Relevant Agency, adherence to an O & M Plan included as section 7-1 of the Remedial Action Report Dated July 2004 and any subsequent modifications (May 2011 Site Management Plan requires soil vapor study or installation of vapor mitigation system according to DOH guidelines before re-use.

104.09-1-15

Dowell Schlumberger Inc.

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan

Prohibition of groundwater use, annual reporting, no constructions without approval of Relevant Agency, adherence to an O & M Plan included as section 7-1 of the Remedial Action Report Dated July 2004 and any subsequent modifications (May 2011 Site Management Plan requires soil vapor study or installation of vapor mitigation system according to DOH guidelines before re-use.

Description of Engineering Controls

None Required

Not Applicable/No EC's

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO



2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO



**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. V00410

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Key Rosebrook at 2411 Dulles Corner Park, Suite 500
Herndon VA 20171
print name print business address

am certifying as Designated Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Remedial Party, or Designated Representative
 Key Rosebrook

7/31/17
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 - 1. progress made during the reporting period toward meeting the remedial objectives for the site
 - 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 - 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 - 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 - 1. recommend whether any changes to the SMP are needed
 - 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 - 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 - 1. Describe each control, its objective, and how performance of the control is evaluated.
 - 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 - 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 - 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 - 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as

designed/expected.

- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.



County of Erie

MARK C. POLONCARZ

County Executive

THOMAS J. DEARING
Commissioner

DEPARTMENT OF ENVIRONMENT AND PLANNING

JOSEPH L. FIEGL, P.E.
Deputy Commissioner

February 18, 2016

Mr. Jayson Burkard
CH2M Hill Engineers Inc.
300 Hunter Avenue
St. Louis, MO 63124

RE: Erie County Sewer District No.4 (ECSD No.4)
Discharge Request – Dowell Schlumberger Inc.
3311-3313 Walden Avenue
Depew, New York

Dear Mr. Burkard:

The Division of Sewerage Management (DSM) has reviewed your request to accept the contaminated water from the above referenced site. The water will be generated from the In Situ Thermal Treatment (ISTT) system on site that will heat the subsurface and force the groundwater contaminants out. The liquid will be treated, accumulated and discharged. Discharge will take place once every five to six days from a holding tank.

The request to discharge approximately 350,000 gallons of this water is approved provided that the discharge is in compliance with the terms outlined in the discharge request and the following conditions:

1. Notification to the Erie County Sewer District No. 4 office must be made at least twenty-four (24) hours prior to initiating the discharge (tel. 684-1234 or 823-5888, ext 223).
2. A Sewer District representative shall be present upon initiation of discharge.
3. The flow shall enter the sanitary sewer system at the designated discharge point. Due to location of discharge point, a written Right of Entry from Buffalo Batt must be received prior to commencement of discharge.
4. CH2M must be aware of NYSDEC requirements for Sanitary Sewer Overflow (SSO) reporting in the event that there is a spill at the site. CH2M will be responsible for reporting any spills to the DEC.
5. Discharge shall not take place during wet weather.
6. The flow rate shall not exceed 15 gpm. The total volume discharged shall be recorded with a flow meter and reported to the DSM.

7. A representative of CH2M or their designee must be on site at all times while discharge is taking place.
8. If at any time a problem arises in the collection system, as a result of the discharge, the District may require that operations cease.
9. An emergency contact list needs to be distributed prior to commencement of discharge.
10. Groundwater must be treated prior to discharge. Treatment through an oil/water separator, air stripper and activated carbon vessel is required.
11. When discharge is taking place, a ramp will need to be used over the hose for driveway access.
12. CH2M is responsible for pedestrian and vehicle safety.

To obtain a permit to discharge, please bring this letter with payment to the ECSD No.4 office at the Northern Region District Office located at 3789 Walden Avenue, Lancaster. A check or money order for \$282.75 payable to the "Erie County Comptroller" will cover the permit, inspection and discharge fees (includes 91,250 gallons). Additional flow charges will be billed to you at project completion. The rate is \$2.45 per 1,000 gallons.

If you should have any questions or concerns please contact me at 823-5888, ext 223.

Sincerely,



Laura A. Surdej
Industrial Wastewater Specialist

cc: J. Fiegl/M. Salah/file
G. Absolom/K. Kaminski/3.2.4 Temporary Discharge Requests
R. Rehac
B. Strzeszynski/T. Herr
L. Sedita (BSA)
David Britton, PE (GHD)
Maureen Jerackas (Village of Depew)

JAYSON M BURKARD

4-21/810

120

DATE 02/19/16

PAY TO THE
ORDER OF

Erie County Comptroller
Two Hundred Eighty Two 75/100

\$282.75

DOLLARS

usbank

All of us serving you

MEMO

Discharge Permit Fee

Jayson Burkard

08 1000 2101

DISCHARGE

PERMIT EXPIRES
90 DAYS AFTER
DATE OF ISSUE

Erie County Sewer - ~~Northern Region~~ Northern Region
APPLICATION TO CONNECT SEWER

17322

SBL Number -

104.09-1-15

In District

Y-#4

Out District

Permit Date

February 23, 2016

Inspection Date

, 20

Owner

Dowell Schlumberger

Owner's Address

Building Address

3311-3313 Walden Av

Depew, NY

FOR INSPECTION AND TAPS
CALL 684-1234

Building Sewer Laid By

Address

3311-3313 Walden Av

Applicant's Signature

CH2M Hill Engineers

Address

300 Hunter Av

(% Jason Burkard) St Louis, MO 63124

APPROVED BY: Erie County Inspector

Board of Managers

PAYABLE TO: ERIE COUNTY DIR. OF BUDGET, MGMT. & FINANCE

SD-3 (Rev. 6.10) ECSD

* Tyler Saatchi signing for applicant Jayson Burkard

Single Dwelling	_____
Multiple Dwelling	_____ Families
Commercial	_____ Employees
Sump Pump	_____
Date of Construction	_____
Inspection Fee Due	_____
Inspection Fee Paid	_____
Connection Fee Due	_____
Connection Fee Paid	_____
Ck #	<u>120</u>
Other	<u>\$282.75</u>



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

DEC 29 2015

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Article Number: 7015 1520 0003 0792 1937

Virgilio Cocianni
Former Dowell Depew Facility
Schlumberger Technology Corporation
100 Gillingham Lane
Sugar Land, TX 77478

Re: Underground Injection Control (UIC) Program Regulation
Former Dowell Depew Facility (Reference UICID: 16NY02999011)
3311-3313 Walden Avenue
Depew, NY 14043
Erie County
Authorization to Inject

Dear Mr. Cocianni:

This letter serves to inform you that the U.S. Environmental Protection Agency is in receipt of inventory information addressing a well authorized by rule located at the above-referenced facility in accordance with 40 Code of Federal Regulations (CFR) §144.26. The operation of the following Underground Injection Control well is authorized by rule, pursuant to 40 CFR §144.24:

Perform the installation of an In situ Thermal Treatment (ISTT) system to remediate ground water contamination at this facility. Operation will include the installation of 22 electrodes. An electrical current will be applied to each electrode to heat the subsurface forcing the ground water contaminants into vertical and horizontal recovery wells. Wells will then be remediated at the surface as either vapor or liquid. Water will be added to each electrode to keep the electrodes from drying out. The operation has been approved by New York State Department of Environmental Conservation, DEC #VOO410.

Should any conditions change in the operation of the well listed above (such as injectate composition, closure of the well, injection of cooling water greater than 98 degrees Fahrenheit, construction of additional wells, etc.) you are required to notify this office within five (5) days. Any accidental spills into a well should be reported within twenty-four (24) hours after the event. Change in operation information should be addressed to:

Nicole Foley Kraft, Chief
Groundwater Compliance Section
United States Environmental Protection Agency
290 Broadway, 20th Floor
New York, NY 10007-1866
Re: 16NY02999011
Attn: Nonny Ortega

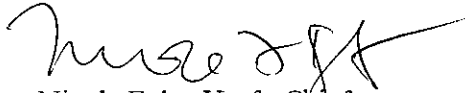
Should you own or operate other facilities using underground injection wells, please use the enclosed inventory form (EPA Form 7520-16) and instructions, copy for multiple facilities, and submit them to the address listed above. The form can also be found on the internet at:

http://www2.epa.gov/sites/production/files/2015-10/documents/7520-16_508c.pdf

Failure to respond to this letter truthfully and accurately within the time provided may subject you to sanctions authorized by federal law. Please also note that all information submitted by you may be used in an administrative, civil judicial, or criminal action. In addition, making a knowing submission of materially false information to the U.S. Government may be a criminal offense.

Should you have any questions, please contact Nonny Ortega of my staff at (212) 637-4234 or ortega.norma@epa.gov.

Sincerely,



Nicole Foley Kraft, Chief
Groundwater Compliance Section

Enclosure

cc: Jeffrey Konsella, Regional Water Engineer
NYSDEC, Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

Tom Casey, P.E.
Erie County Division of Environmental Health
95 Franklin Street
Buffalo, NY 14202

**USEPA REGION II SUPPLEMENTAL INSTRUCTIONS
FOR COMPLETING
INVENTORY OF INJECTION WELLS
EPA FORM 7520-16 (Rev. 8-01)**

SECTION 2. FACILITY ID NUMBER: Leave blank. EPA will assign an ID number.

SECTION 3. TRANSACTION TYPE: Check either First Time Entry or Entry Change. If this is the first time you have submitted this form for your injection wells(s), check First Time Entry and fill in all the appropriate information. If you are modifying information you sent in before, check Entry Change, fill in the Facility Name and Location and fill in the information that has changed. (Note: If the facility name has changed, in the blank space in the upper left hand corner write the prior facility name under which the form was first submitted, and the date it was submitted.)

SECTION 4. FACILITY NAME AND LOCATION: If you know the latitude and longitude of your facility, fill in line 4C and 4D. You do not need to fill in 4E, Township/Range. If you know the Numeric County Code, fill in line 4I, otherwise just write in the name of the County.

SECTION 5. LEGAL CONTACT: Under 5A, if the Legal Contact you are identifying owns the land, check Owner. If the Legal Contact owns and/or operates the business but someone else owns the land, check Operator. Under 5I, "Private" means privately owned. "Public" means owned by local/municipal government. "State" and "Federal" mean owned by state/federal government.

SECTION 6. WELL INFORMATION: Under 6A CLASS AND TYPE, use the attached table "USEPA Region II List of Class V Injection Well Types" to determine the CLASS V "TYPE". Enter the appropriate Type Code in 6A (the Type Code does not have to fit within the two boxes on the Inventory Form). Select the Class V well type(s) that most accurately fit the well(s) at your facility. When reviewing the attached table and making your determination, be sure to consider all of the fluids entering the well or having the potential to enter the well. For example, Storm Water Drainage Wells located in industrial areas which are susceptible to spills, leaks or other chemical discharges are inventoried as Industrial Drainage Wells. If Cesspools and Septic Systems are receiving fluids other than sanitary waste (human excreta), that should be noted in the Additional Information below.

IMPORTANT: ADDITIONAL INFORMATION

In order to ensure that the Class V Well(s) at your facility are accurately inventoried you must also submit on a separate piece of paper: (1) a brief description characterizing your facility and the types of activities conducted; (2) a brief description of what you use each of your injection well(s) for; (3) a brief description of the types of fluids that enter, or have the potential to enter, each of your injection well(s). (Note: wells with the same information may be grouped).

If you require assistance, please contact EPA Region II at (212) 637-3093.

USEPA REGION II LIST OF CLASS V INJECTION WELL TYPES

TYPE CODE	NAME	DESCRIPTION
INDUSTRIAL/COMMERCIAL/UTILITY DISPOSAL WELLS		
5X28	MOTOR VEHICLE WASTE DISPOSAL WELLS	- wells that receive or have received fluids from vehicular repair or maintenance activities, such as an auto body repair shop, automotive repair shop, new and used car dealership, specialty repair shop (e.g., transmission and muffler repair shop), or any facility that does any vehicular repair work.
5W20	INDUSTRIAL PROCESS WATER & WASTE DISPOSAL WELLS	- used to dispose of a wide variety of wastes and wastewater from industrial, commercial, or utility processes. Industries include refineries, chemical plants, smelters, pharmaceutical plants, laundromats and dry cleaners, tanneries, carwashes, laboratories, funeral homes, etc. Specify industry <u>and</u> waste stream.
5A19	COOLING WATER RETURN FLOW WELLS	- used to inject water which was used in a cooling process.
DRAINAGE WELLS		
5D4	INDUSTRIAL DRAINAGE WELL	- wells located in industrial areas which primarily receive storm water runoff but are susceptible to spills, leaks, or other chemical discharges.
5D2	STORM WATER DRAINAGE WELLS	- receive storm water runoff from paved areas, including parking lots, streets, residential subdivisions, building roofs, highways, etc.
5F1	AGRICULTURAL DRAINAGE WELLS	- receive irrigation tailwaters, other field drainage, animal yard, feedlot, or dairy runoff, etc.
5D3	IMPROVED SINKHOLES	- receive storm water runoff from developments located in karst topographic areas.
5G30	SPECIAL DRAINAGE WELLS	- used for disposing water from sources other than direct precipitation—such as landslide control drainage wells, potable water tank overflow drainage wells, swimming pool drainage wells, and lake level control drainage wells.

DOMESTIC WASTEWATER DISPOSAL WELLS		
5W9	UNTREATED SEWAGE WASTE DISPOSAL	- receive raw sewage wastes from pumping trucks or other vehicles which collect such wastes from single or multiple sources. (No treatment)
5W10	LARGE CAPACITY CESSPOOLS	- large capacity cesspools including multiple dwelling, community or regional cesspools, or other devices that receive sanitary wastes, containing human excreta, which have an open bottom and sometimes perforated sides. Includes non-residential cesspools which receive solely sanitary waste and have the capacity to serve greater than or equal to 20 persons a day. DOES NOT apply to single family residential cesspools.
5W11	SEPTIC SYSTEM (UNDIFFERENTIATED DISPOSAL METHOD)	- used to inject the waste or effluent from a multiple dwelling, business establishment, community or regional business establishment septic tank to an undetermined final discharge point. Includes non-residential septic systems which receive solely sanitary waste and have the capacity to serve greater than or equal to 20 persons a day. DOES NOT apply to single family residential septic systems. (Primary Treatment)
5W31	SEPTIC SYSTEMS (WELL DISPOSAL METHOD)	- used to inject the waste or effluent from a multiple dwelling, business establishment, community or regional business establishment septic tank to a well— examples of wells include dry wells, seepage pits, cavitettes, etc. The largest surface dimension is less than or equal to the depth dimension. Includes non-residential septic systems which receive solely sanitary waste and have the capacity to serve greater than or equal to 20 persons a day. DOES NOT apply to single family residential septic systems. (Primary Treatment)
5W32	SEPTIC SYSTEMS (DRAIN FIELD DISPOSAL METHOD)	- used to inject the waste or effluent from a multiple dwelling, business establishment, community or regional business establishment septic tank to a drainfield—examples of drainfields include drain or tile lines, and trenches. Includes non-residential septic systems which receive solely sanitary waste and have the capacity to serve greater than or equal to 20 persons a day. DOES NOT apply to single family residential septic systems. (Primary Treatment)
5W12	DOMESTIC WASTEWATER TREATMENT PLANT EFFLUENT DISPOSAL	- dispose of treated sewage or domestic effluent from small package plants up to large municipal treatment plants. Final discharge points may include drywells or leachfields. (Secondary or further treatment)

GEOHERMAL REINJECTION WELLS		
5A5	ELECTRIC POWER REINJECTION WELLS	- reinject geothermal fluids used to generate electric power.
5A6	DIRECT HEAT REINJECTION WELLS	- reinject geothermal fluids used to provide heat for large buildings or developments.
5A7	HEAT/PUMP/AIR CONDITIONING RETURN FLOW WELLS	- reinject groundwater used to heat or cool a building in a heat pump system.
5A8	GROUNDWATER AQUACULTURE RETURN FLOW WELLS	- reinject groundwater or geothermal fluids used to support aquaculture. Non-geothermal aquaculture disposal wells are also included in this category (e.g., Marine aquariums in Hawaii use relatively cool sea water).
RECHARGE WELLS		
5R21	AQUIFER RECHARGE WELLS	- used to recharge depleted aquifers and may inject fluids from a variety of sources such as lakes, streams, domestic wastewater treatment plants, other aquifers, etc.
5B22	SALINE WATER INTRUSION BARRIER WELLS	- used to inject water into fresh water aquifers to prevent intrusion of salt water into fresh water aquifers.
5S23	SUBSIDENCE CONTROL WELLS	- used to inject fluids into a non-oil or gas producing zone to reduce or eliminate subsidence associated with overdraft of fresh water and not used for the purpose of oil or natural gas production.
OIL FIELD PRODUCTION WASTE DISPOSAL WELLS		
5X17	AIR SCRUBBER WASTE DISPOSAL WELLS	- inject waste from air scrubbers used to remove sulfur from crude oil which is burned in steam generation for thermal oil recovery projects. (If injection is used directly for enhanced recovery and not just disposal it is a Class II well.)
5X18	WATER SOFTENER REGENERATION BRINE DISPOSAL WELLS	- inject regeneration waste from water softeners which are used to improve the quality of brines used for enhanced recovery. (If injection is used directly for enhanced recovery and not just disposal it is a Class II well.)

MINERAL AND FOSSIL FUEL RECOVERY RELATED WELLS		
5X13	MINING, SAND, OR OTHER BACKFILL WELLS	- used to inject a mixture of water and sand, mill tailings, and other solids into mined out portions of subsurface mines whether what is injected is radioactive waste or not. Also includes special wells used to control mine fires and acid mine drainage wells.
5X14	SOLUTION MINING WELLS	- used for in situ solution mining in conventional mines, such as slopes leaching.
5X15	IN-SITU FOSSIL FUEL RECOVERY WELLS	- used for in situ recovery of coal, lignite, oil shale, and tar sands.
5X16	SPENT BRINE RETURN FLOW WELLS	- used to reinject spent brine into the same formation from which it was withdrawn after extraction of halogens or their salts.
MISCELLANEOUS WELLS		
5X25	EXPERIMENTAL TECHNOLOGY WELL	- wells used in experimental or unproven technologies such as pilot scale in situ solution mining wells in previously unmined areas.
5X26	AQUIFER REMEDIATION RELATED WELLS	- wells used to prevent, control, or remediate aquifer pollution, including but not limited to Superfund sites.
5X29	ABANDONED DRINKING WATER WELLS	- used for disposal of fluids. Specify well purpose and injected fluids.
5X27	OTHER WELLS	- any other unspecified Class V wells. Specify well type/purpose and injected fluids.

SOURCE. Prepared by EPA Region II. Based on 1987 Report to Congress on Class V Wells; and 40 C.F.R. §144.81.

May 11, 2004 (3:47pm)G:\User\Share\DECADIV\DECA-WCB\GWCS\Well Class Type Table for Inventory Form5.wpd

INVENTORY OF INJECTION WELLS										1. DATE PREPARED (Year, Month, Day)		2. FACILITY ID NUMBER												
 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICE OF GROUND WATER AND DRINKING WATER (This information is collected under the authority of the Safe Drinking Water Act)																								
PAPERWORK REDUCTION ACT NOTICE The public reporting burden for this collection of information is estimated at about 0.5 hour per response including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, Director, Collection Strategies Division (2022), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, and to the Office of Management and Budget, Paperwork Reduction Project, Washington, DC 20503.										3. TRANSACTION TYPE (Please mark one of the following) ☐ Deletion ☐ Entry Change ☐ First Time Entry ☐ Replacement														
4. FACILITY NAME AND LOCATION																								
A. NAME (last, first, and middle initial)				C. LATITUDE			<table border="1" style="width: 100%; text-align: center;"> <tr> <td>DEG</td> <td>MIN</td> <td>SEC</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		DEG	MIN	SEC				E. TOWNSHIP/RANGE									
DEG	MIN	SEC																						
B. STREET ADDRESS/ROUTE NUMBER				D. LONGITUDE			<table border="1" style="width: 100%; text-align: center;"> <tr> <td>DEG</td> <td>MIN</td> <td>SEC</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>		DEG	MIN	SEC				<table border="1" style="width: 100%; text-align: center;"> <tr> <td>TOWNSHIP</td> <td>RANGE</td> <td>SECT</td> <td>1/4 SECT</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		TOWNSHIP	RANGE	SECT	1/4 SECT				
DEG	MIN	SEC																						
TOWNSHIP	RANGE	SECT	1/4 SECT																					
F. CITY/TOWN			G. STATE	H. ZIP CODE		I. NUMERIC COUNTY CODE		J. INDIAN LAND (mark "x")		☐ Yes ☐ No														
5. LEGAL CONTACT:																								
A. TYPE (mark "x")			B. NAME (last, first, and middle initial)					C. PHONE (area code and number)																
☐ Owner ☐ Operator																								
D. ORGANIZATION				E. STREET/P.O. BOX				I. OWNERSHIP (mark "x")																
F. CITY/TOWN				G. STATE	H. ZIP CODE		☐ PRIVATE ☐ PUBLIC ☐ SPECIFY OTHER ☐ STATE ☐ FEDERAL																	
6. WELL INFORMATION:																								
A. CLASS AND TYPE		B. NUMBER OF WELLS		C. TOTAL NUMBER OF WELLS	D. WELL OPERATION STATUS					COMMENTS (Optional):														
		COMM	NON-COMM		UC	AC	TA	PA	AN															
				0						KEY: DEG = Degree MIN = Minute SEC = Second SECT = Section 1/4 SECT = Quarter Section COMM = Commercial NON-COMM = Non-Commercial AC = Active UC = Under Construction TA = Temporarily Abandoned PA = Permanently Abandoned and Approved by State AN = Permanently Abandoned and not Approved by State														
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SECTION 1. DATE PREPARED: Enter date in order of year, month, and day.

SECTION 2. FACILITY ID NUMBER: In the first two spaces, insert the appropriate U.S. Postal Service State Code. In the third space, insert one of the following one letter alphabetic identifiers:

- D - DUNS Number.
- G - GSA Number, or
- S - State Facility Number.

In the remaining spaces, insert the appropriate nine digit DUNS, GSA, or State Facility Number. For example, A Federal facility (GSA - 123456789) located in Virginia would be entered as : VAG123456789.

SECTION 3. TRANSACTION TYPE: Place an "x" in the applicable box. See below for further instructions.

Deletion. Fill in the Facility ID Number.

First Time Entry. Fill in all the appropriate information.

Entry Change. Fill in the Facility ID Number and the information that has changed.

Replacement.

SECTION 4. FACILITY NAME AND LOCATION:

- A. **Name.** Fill in the facility's official or legal name.
- B. **Street Address.** Self Explanatory.
- C. **Latitude.** Enter the facility's latitude (all latitudes assume North except for American Samoa)
- D. **Longitude.** Enter the facility's longitude (all longitudes assume West except Guam).
- E. **Township/Range.** Fill in the complete township and range. The first 3 spaces are numerical and the fourth is a letter (N,S,E,W) specifying a compass direction. A township is North or South of the baseline, and a range is East or West of the principal meridian (e.g., 132N, 343W).
- F. **City/Town.** Self Explanatory.
- G. **State.** Insert the U.S. Postal Service State abbreviation.
- H. **Zip Code.** Insert the five digit zip code plus any extension.

SECTION 4. FACILITY NAME & LOCATION (CONT'D.):

- I. **Numeric County Code.** Insert the numeric county code from the Federal Information Processing Standards Publication (FIPS Pub 6-1) June 15, 1970, U.S. Department of Commerce, National Bureau of Standards. For Alaska, use the Census Division Code developed by the U.S. Census Bureau.
- J. **Indian Land.** Mark an "x" in the appropriate box (Yes or No) to indicate if the facility is located on Indian land.

SECTION 5. LEGAL CONTACT:

- A. **Type.** Mark an "x" in the appropriate box to indicate the type of legal contact (Owner or Operator). For wells operated by lease, the operator is the legal contact.
- B. **Name.** Self Explanatory.
- C. **Phone.** Self Explanatory.
- D. **Organization.** If the legal contact is an individual, give the name of the business organization to expedite mail distribution.
- E. **Street/P.O. Box.** Self Explanatory.
- F. **City/Town.** Self Explanatory.
- G. **State.** Insert the U.S. Postal Service State abbreviation.
- H. **Zip Code.** Insert the five digit zip code plus any extension.
- I. **Ownership.** Place an "x" in the appropriate box to indicate ownership status.

SECTION 6. WELL INFORMATION:

- A. **Class and Type.** Fill in the Class and Type of injection wells located at the listed facility. Use the most pertinent code (specified below) to accurately describe each type of injection well. For example, 2R for a Class II Enhanced Recovery Well, or 3M for a Class III Solution Mining Well, etc.
- B. **Number of Commercial and Non-Commercial Wells.** Enter the total number of commercial and non-commercial wells for each Class/Type, as applicable.
- C. **Total Number of Wells.** Enter the total number of injection wells for each specified Class/Type.
- D. **Well Operation Status.** Enter the number of wells for each Class/Type under each operation status (see key on other side).

CLASS I Industrial, Municipal, and Radioactive Waste Disposal Wells used to inject waste below the lowermost Underground Source of Drinking Water (USDW).

- TYPE II** Non-Hazardous Industrial Disposal Well.
- 1M** Non-Hazardous Municipal Disposal Well.
- 1H** Hazardous Waste Disposal Well injecting below the lowermost USDW.
- 1R** Radioactive Waste Disposal Well
- 1X** Other Class I Wells.

CLASS II Oil and Gas Production and Storage Related Injection Wells.

- TYPE 2A** Annular Disposal Well.
- 2D** Produced Fluid Disposal Well.
- 2H** Hydrocarbon Storage Well.
- 2R** Enhanced Recovery Well.
- 2X** Other Class II Wells.

CLASS III Special Process Injection Wells.

- TYPE 3G** In Situ Gasification Well
- 3M** Solution Mining Well.

CLASS III (CONT'D.)

- TYPE 3S** Sulfur Mining Well by Frasch Process.
- 3T** Geothermal Well.
- 3U** Uranium Mining Well.
- 3X** Other Class III Wells.

CLASS IV Wells that inject hazardous waste into/above USDWs.

- TYPE 4H** Hazardous Facility Injection Well.
- 4R** Remediation Well at RCRA or CERCLA site.

CLASS V Any Underground Injection Well not included in Classes I through IV.

- TYPE 5A** Industrial Well.
- 5B** Beneficial Use Well.
- 5C** Fluid Return Well.
- 5D** Sewage Treatment Effluent Well.
- 5E** Cesspools (non-domestic).
- 5F** Septic Systems.
- 5G** Experimental Technology Well.
- 5H** Drainage Well.
- 5I** Mine Backfill Well.
- 5J** Waste Discharge Well.

From: [Rhoades, Katie/NJO](#)
To: [Rhoades, Katie/NJO](#)
Subject: FW: changed condition notification Reference UICID: 16NY02999011 the Former Dowell Depew Facility
Date: Friday, July 08, 2016 8:35:09 AM

From: Ortega, Norma [<mailto:Ortega.Norma@epa.gov>]
Sent: Thursday, July 07, 2016 5:21 PM
To: Colella, Linda/DEN <Linda.Colella@CH2M.com>
Subject: RE: changed condition notification Reference UICID: 16NY02999011 the Former Dowell Depew Facility

Hi Linda:

Pertaining to *the Former Dowell Depew Facility*-EPA concurs with both the information/approval provided by David Szymaski of NYSDEC via e-mail dated May 25, 2016. And also we concur with the May 24, 2016 e-mail approval provided by Laura Surdej of Erie County and the Buffalo Sewer Authority . The information in the two e-mails granted approval to your request to include/add 45 glutaraldehyde to the holding tank at this facility in order to treat for biofouling. The initial dosing will be 100-125 ppm for a duration of 12 hours, then to be adjusted to an ongoing maintenance dose of 25-30 ppm.

EPA may send you a formal letter if it is deemed necessary, during the week of July 18th as I will be on travel next week.

Thanks so much and happy week-end!

Nonny

Appendix B

Analytical Laboratory Report

ANALYTICAL REPORT

Job Number: 480-120094-1

Job Description: Dowell - Depew Site

For:
CH2M Hill, Inc.
300 Hunter Avenue
Suite 305
St Louis, MO 63124
Attention: Ms. Shane Lowe



Approved for release.
Rebecca M Jones
Project Management Assistant I
7/3/2017 10:24 AM

Designee for
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07/03/2017
Revision: 1

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Job Narrative
480-120094-1

Comments

No additional comments.

Receipt

The samples were received on 6/23/2017 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-364568 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-04-062317 (480-120094-8), MW-02-062317 (480-120094-9), MW-01-062317 (480-120094-10) and TB-001-062317 (480-120094-11).

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

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973C Analysis Batch Number: 362749Lab Sample ID: IC 480-362749/8 Client Sample ID: _____Date Analyzed: 06/19/17 15:19 Lab File ID: C4689.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.90	Poor chromatography	reiler	06/19/17 19:09
Acrolein	6.77	Missed Peak	reiler	06/19/17 19:09
Vinyl acetate	7.97	Missed Peak	reiler	06/19/17 19:09
trans-1,4-Dichloro-2-butene	12.88	Missed Peak	reiler	06/19/17 19:10

Lab Sample ID: IC 480-362749/9 Client Sample ID: _____Date Analyzed: 06/19/17 15:44 Lab File ID: C4690.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.91	Poor chromatography	reiler	06/19/17 19:38
Acrolein	6.77	Missed Peak	reiler	06/19/17 19:39
1,4-Dioxane	10.00	Missed Peak	reiler	06/19/17 19:39
1,2-Dibromo-3-Chloropropane	15.17	Poor chromatography	reiler	06/19/17 19:40

Lab Sample ID: IC 480-362749/10 Client Sample ID: _____Date Analyzed: 06/19/17 16:10 Lab File ID: C4691.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	4.90	Poor chromatography	reiler	06/19/17 19:41
Acrolein	6.77	Missed Peak	reiler	06/19/17 19:41
Isobutyl alcohol	9.00	Peak Tail	reiler	06/19/17 19:41
1,4-Dioxane	10.00	Missed Peak	reiler	06/19/17 19:42
1,2-Dibromo-3-Chloropropane	15.17	Poor chromatography	reiler	06/19/17 19:42

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973C Analysis Batch Number: 362749Lab Sample ID: IC 480-362749/11 Client Sample ID: _____Date Analyzed: 06/19/17 16:35 Lab File ID: C4692.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	15.17	Poor chromatography	reiler	06/19/17 19:45

Lab Sample ID: IC 480-362749/20 Client Sample ID: _____Date Analyzed: 06/19/17 20:20 Lab File ID: C4701.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	7.26	Poor chromatography	reiler	06/19/17 22:37

Lab Sample ID: IC 480-362749/25 Client Sample ID: _____Date Analyzed: 06/19/17 22:27 Lab File ID: C4706.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorobenzene (IS)	9.43	Poor chromatography	HillL	06/20/17 11:36

Lab Sample ID: IC 480-362749/26 Client Sample ID: _____Date Analyzed: 06/19/17 22:52 Lab File ID: C4707.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorobenzene (IS)	9.43	Poor chromatography	HillL	06/20/17 11:39

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973C Analysis Batch Number: 364320Lab Sample ID: LCS 480-364320/5 Client Sample ID: _____Date Analyzed: 06/27/17 22:31 Lab File ID: C5070.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorobenzene (IS)	9.43	Poor chromatography	reiler	06/27/17 22:52

Lab Sample ID: LCSD 480-364320/10 Client Sample ID: _____Date Analyzed: 06/27/17 22:57 Lab File ID: C5071.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Fluorobenzene (IS)	9.43	Poor chromatography	reiler	06/27/17 23:18

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973N Analysis Batch Number: 363987Lab Sample ID: IC 480-363987/6 Client Sample ID: _____Date Analyzed: 06/26/17 15:18 Lab File ID: N9067.D GC Column: ZB-624 (20) ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroethane	2.05	Missed Peak	sonkera	06/27/17 00:30
Trichlorofluoromethane	2.26	Missed Peak	sonkera	06/27/17 00:30
Hexane	3.72	Missed Peak	sonkera	06/27/17 00:31
2-Butanone (MEK)	4.49	Peak Tail	sonkera	06/27/17 00:31
Cyclohexane	4.92	Incomplete Integration	sonkera	06/27/17 00:32
Tetrachloroethene	7.63	Missed Peak	sonkera	06/27/17 00:33
1,3-Dichloropropane	7.69	Missed Peak	sonkera	06/27/17 00:33
2-Hexanone	7.77	Missed Peak	sonkera	06/27/17 00:33
1,2-Dibromo-3-Chloropropane	11.98	Missed Peak	sonkera	06/27/17 00:34

Lab Sample ID: IC 480-363987/7 Client Sample ID: _____Date Analyzed: 06/26/17 15:45 Lab File ID: N9068.D GC Column: ZB-624 (20) ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.27	Missed Peak	sonkera	06/27/17 00:35
Acrolein	2.71	Poor chromatography	sonkera	06/27/17 00:35
Methylene Chloride	3.27	Missed Peak	sonkera	06/27/17 00:36
2-Butanone (MEK)	4.49	Poor chromatography	sonkera	06/27/17 00:36
1,4-Dioxane	6.24	Missed Peak	sonkera	06/27/17 00:37
Tetrachloroethene	7.63	Missed Peak	sonkera	06/27/17 00:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973N Analysis Batch Number: 363987Lab Sample ID: IC 480-363987/8 Client Sample ID: _____Date Analyzed: 06/26/17 16:12 Lab File ID: N9069.D GC Column: ZB-624 (20) ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methyl-2-propanol	3.42	Split Peak	sonkera	06/27/17 00:41
Isobutyl alcohol	5.23	Peak Tail	HilllL	06/27/17 09:16
n-Heptane	5.45	Poor chromatography	sonkera	06/27/17 00:44
1,4-Dioxane	6.22	Poor chromatography	HilllL	06/27/17 09:16

Lab Sample ID: IC 480-363987/9 Client Sample ID: _____Date Analyzed: 06/26/17 16:40 Lab File ID: N9070.D GC Column: ZB-624 (20) ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methyl-2-propanol	3.42	Poor chromatography	HilllL	06/27/17 09:17
Isobutyl alcohol	5.23	Poor chromatography	HilllL	06/27/17 09:18
1,4-Dioxane	6.23	Peak Tail	sonkera	06/27/17 00:46
Tetrachloroethene	7.63	Missed Peak	sonkera	06/27/17 00:47
1,4-Dichlorobenzene	10.91	Poor chromatography	sonkera	06/27/17 00:50

Lab Sample ID: IC 480-363987/10 Client Sample ID: _____Date Analyzed: 06/26/17 17:07 Lab File ID: N9071.D GC Column: ZB-624 (20) ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.16	Poor chromatography	sonkera	06/27/17 00:52
2-Methyl-2-propanol	3.42	Split Peak	sonkera	06/27/17 00:52
Isobutyl alcohol	5.23	Poor chromatography	sonkera	06/27/17 00:54
1,2-Dichloroethane	5.29	Poor chromatography	sonkera	06/27/17 00:55
n-Heptane	5.46	Poor chromatography	sonkera	06/27/17 00:56
Trichloroethene	5.85	Poor chromatography	sonkera	06/27/17 00:56
2-Hexanone	7.77	Poor chromatography	sonkera	06/27/17 00:57
1,4-Dichlorobenzene	10.91	Split Peak	sonkera	06/27/17 00:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973N Analysis Batch Number: 363987Lab Sample ID: IC 480-363987/12 Client Sample ID: _____Date Analyzed: 06/26/17 18:01 Lab File ID: N9073.D GC Column: ZB-624 (20) ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methyl-2-propanol	3.41	Split Peak	sonkera	06/27/17 01:01
n-Heptane	5.45	Poor chromatography	sonkera	06/27/17 01:04
1,4-Dioxane	6.22	Peak Tail	sonkera	06/27/17 01:05
1,4-Dichlorobenzene	10.91	Poor chromatography	sonkera	06/27/17 01:06
1,2-Dibromo-3-Chloropropane	11.97	Poor chromatography	sonkera	06/27/17 01:06

Lab Sample ID: IC 480-363987/13 Client Sample ID: _____Date Analyzed: 06/26/17 18:28 Lab File ID: N9074.D GC Column: ZB-624 (20) ID: 0.18 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.37	Split Peak	sonkera	06/27/17 01:08
2-Methyl-2-propanol	3.41	Split Peak	sonkera	06/27/17 01:09
Isobutyl alcohol	5.22	Split Peak	sonkera	06/27/17 01:11
1,4-Dichlorobenzene	10.91	Split Peak	sonkera	06/27/17 01:12

SAMPLE SUMMARY

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-120094-1	MW-07S-062317	Water	06/23/2017 1230	06/23/2017 1700
480-120094-2	MW-7D-062317	Water	06/23/2017 1245	06/23/2017 1700
480-120094-3	X-A-1-062317	Water	06/23/2017 1300	06/23/2017 1700
480-120094-3MS	X-A-1-062317-MS	Water	06/23/2017 1300	06/23/2017 1700
480-120094-3MSD	X-A-1-062317-MSD	Water	06/23/2017 1300	06/23/2017 1700
480-120094-4	X-A-3-062317	Water	06/23/2017 1345	06/23/2017 1700
480-120094-5	X-A-3-062317-DUP	Water	06/23/2017 1350	06/23/2017 1700
480-120094-6	X-C-3-062317	Water	06/23/2017 1330	06/23/2017 1700
480-120094-7	RW-02-062317	Water	06/23/2017 1430	06/23/2017 1700
480-120094-8	MW-04-062317	Water	06/23/2017 1445	06/23/2017 1700
480-120094-9	MW-02-062317	Water	06/23/2017 1515	06/23/2017 1700
480-120094-10	MW-01-062317	Water	06/23/2017 1530	06/23/2017 1700
480-120094-11	TB-001-062317	Water	06/23/2017 0000	06/23/2017 1700

EXECUTIVE SUMMARY - Detections

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-120094-1 1,1-Dichloroethane	MW-07S-062317	0.691	J	1.00	ug/L	8260C
480-120094-3 1,2-Dichloroethene, Total	X-A-1-062317	2.61		2.00	ug/L	8260C
Benzene		0.518	J	1.00	ug/L	8260C
cis-1,2-Dichloroethene		2.61		1.00	ug/L	8260C
Vinyl chloride		5.41	F1	1.00	ug/L	8260C
480-120094-4 1,1-Dichloroethane	X-A-3-062317	2.16		1.00	ug/L	8260C
1,2-Dichloroethene, Total		2.48		2.00	ug/L	8260C
cis-1,2-Dichloroethene		2.48		1.00	ug/L	8260C
Vinyl chloride		5.23		1.00	ug/L	8260C
480-120094-5 1,1-Dichloroethane	X-A-3-062317-DUP	2.14		1.00	ug/L	8260C
1,2-Dichloroethene, Total		2.42		2.00	ug/L	8260C
cis-1,2-Dichloroethene		2.42		1.00	ug/L	8260C
Vinyl chloride		5.08		1.00	ug/L	8260C
480-120094-6 1,1-Dichloroethane	X-C-3-062317	0.801	J	1.00	ug/L	8260C
1,2-Dichloroethene, Total		2.34		2.00	ug/L	8260C
cis-1,2-Dichloroethene		2.34		1.00	ug/L	8260C
Vinyl chloride		9.15		1.00	ug/L	8260C
480-120094-7 1,2-Dichloroethene, Total	RW-02-062317	6.12		2.00	ug/L	8260C
cis-1,2-Dichloroethene		6.12		1.00	ug/L	8260C
Trichloroethene		3.14		1.00	ug/L	8260C
Vinyl chloride		2.11		1.00	ug/L	8260C

METHOD SUMMARY

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

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

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Method	Analyst	Analyst ID
SW846 8260C	Hill, Leah C	LCH
SW846 8260C	Schreiber, Jessie AC	JAS

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: MW-07S-062317

Lab Sample ID: 480-120094-1

Client Matrix: Water

Date Sampled: 06/23/2017 1230

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364320	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C5083.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2017 0414			Final Weight/Volume:	5 mL
Prep Date:	06/28/2017 0414				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.691	J	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	0.810	U	0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	0.810	U	0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	0.900	U	0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		77 - 120
4-Bromofluorobenzene (Surr)	86		73 - 120
Toluene-d8 (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	85		75 - 123

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: MW-7D-062317

Lab Sample ID: 480-120094-2

Client Matrix: Water

Date Sampled: 06/23/2017 1245

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364320	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C5084.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2017 0440			Final Weight/Volume:	5 mL
Prep Date:	06/28/2017 0440				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.380	U	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	0.810	U	0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	0.810	U	0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	0.900	U	0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		77 - 120
4-Bromofluorobenzene (Surr)	85		73 - 120
Toluene-d8 (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	86		75 - 123

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: X-A-1-062317

Lab Sample ID: 480-120094-3

Client Matrix: Water

Date Sampled: 06/23/2017 1300

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364320	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C5085.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2017 0505			Final Weight/Volume:	5 mL
Prep Date:	06/28/2017 0505				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.380	U	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	2.61		0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.518	J	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	2.61		0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	5.41	F1	0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	87		73 - 120
Toluene-d8 (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	88		75 - 123

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: X-A-3-062317

Lab Sample ID: 480-120094-4

Client Matrix: Water

Date Sampled: 06/23/2017 1345

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364320	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C5086.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2017 0530			Final Weight/Volume:	5 mL
Prep Date:	06/28/2017 0530				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	2.16		0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	2.48		0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	2.48		0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	5.23		0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		77 - 120
4-Bromofluorobenzene (Surr)	87		73 - 120
Toluene-d8 (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	87		75 - 123

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: X-A-3-062317-DUP

Lab Sample ID: 480-120094-5

Date Sampled: 06/23/2017 1350

Client Matrix: Water

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364320	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C5087.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2017 0556			Final Weight/Volume:	5 mL
Prep Date:	06/28/2017 0556				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	2.14		0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	2.42		0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	2.42		0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	5.08		0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		77 - 120
4-Bromofluorobenzene (Surr)	87		73 - 120
Toluene-d8 (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	85		75 - 123

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: X-C-3-062317

Lab Sample ID: 480-120094-6

Client Matrix: Water

Date Sampled: 06/23/2017 1330

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364320	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C5088.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2017 0621			Final Weight/Volume:	5 mL
Prep Date:	06/28/2017 0621				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.801	J	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	2.34		0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	2.34		0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	9.15		0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		77 - 120
4-Bromofluorobenzene (Surr)	86		73 - 120
Toluene-d8 (Surr)	90		80 - 120
Dibromofluoromethane (Surr)	88		75 - 123

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: RW-02-062317

Lab Sample ID: 480-120094-7

Client Matrix: Water

Date Sampled: 06/23/2017 1430

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364910	Instrument ID:	HP5973N
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	N9254.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2017 1352			Final Weight/Volume:	5 mL
Prep Date:	06/30/2017 1352				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.380	U	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	6.12		0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	6.12		0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	3.14		0.460	1.00
Vinyl chloride	2.11		0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Toluene-d8 (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	112		75 - 123

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: MW-04-062317

Lab Sample ID: 480-120094-8

Client Matrix: Water

Date Sampled: 06/23/2017 1445

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364568	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C5139.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2017 2250			Final Weight/Volume:	5 mL
Prep Date:	06/28/2017 2250				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.380	U	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	0.810	U	0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	0.810	U	0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	0.900	U	0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		77 - 120
4-Bromofluorobenzene (Surr)	84		73 - 120
Toluene-d8 (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: MW-02-062317

Lab Sample ID: 480-120094-9

Date Sampled: 06/23/2017 1515

Client Matrix: Water

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364568	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C5140.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2017 2316			Final Weight/Volume:	5 mL
Prep Date:	06/28/2017 2316				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.380	U	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	0.810	U	0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	0.810	U	0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	0.900	U	0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		77 - 120
4-Bromofluorobenzene (Surr)	85		73 - 120
Toluene-d8 (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: MW-01-062317

Lab Sample ID: 480-120094-10

Client Matrix: Water

Date Sampled: 06/23/2017 1530

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364568	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C5141.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2017 2341			Final Weight/Volume:	5 mL
Prep Date:	06/28/2017 2341				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.380	U	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	0.810	U	0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	0.810	U	0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	0.900	U	0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		77 - 120
4-Bromofluorobenzene (Surr)	85		73 - 120
Toluene-d8 (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Analytical Data

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Client Sample ID: TB-001-062317

Lab Sample ID: 480-120094-11

Client Matrix: Water

Date Sampled: 06/23/2017 0000

Date Received: 06/23/2017 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-364568	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C5142.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/29/2017 0006			Final Weight/Volume:	5 mL
Prep Date:	06/29/2017 0006				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.380	U	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	0.810	U	0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	0.810	U	0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	0.900	U	0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		77 - 120
4-Bromofluorobenzene (Surr)	85		73 - 120
Toluene-d8 (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

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
480-120094-1	MW-07S-062317	85	94	90	86
480-120094-2	MW-7D-062317	86	94	90	85
480-120094-3	X-A-1-062317	88	95	91	87
480-120094-4	X-A-3-062317	87	94	91	87
480-120094-5	X-A-3-062317-DUP	85	92	90	87
480-120094-6	X-C-3-062317	88	94	90	86
480-120094-7	RW-02-062317	112	114	105	103
480-120094-8	MW-04-062317	103	115	105	84
480-120094-9	MW-02-062317	102	115	104	85
480-120094-10	MW-01-062317	105	118	104	85
480-120094-11	TB-001-062317	102	115	105	85
MB 480-364320/8		87	92	92	88
MB 480-364568/7		101	113	105	85
MB 480-364910/6		111	108	104	99
LCS 480-364320/5		77	89	94	89
LCS 480-364568/5		104	112	107	87
LCS 480-364910/4		109	111	105	98
LCSD 480-364320/10		75	85	94	89
480-120094-3 MS	X-A-1-062317-MS MS	86	88	91	89
480-120094-3 MSD	X-A-1-062317-MSD MSD	86	90	89	88

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Method Blank - Batch: 480-364320

Method: 8260C
Preparation: 5030C

Lab Sample ID: MB 480-364320/8
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/27/2017 2348
Prep Date: 06/27/2017 2348
Leach Date: N/A

Analysis Batch: 480-364320
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973C
Lab File ID: C5073.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.380	U	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	0.810	U	0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	0.810	U	0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	0.900	U	0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	77 - 120
4-Bromofluorobenzene (Surr)	88	73 - 120
Toluene-d8 (Surr)	92	80 - 120
Dibromofluoromethane (Surr)	87	75 - 123

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Lab Control Sample/

Lab Control Sample Duplicate Recovery Report - Batch: 480-364320

Method: 8260C

Preparation: 5030C

LCS Lab Sample ID: LCS 480-364320/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/27/2017 2231
 Prep Date: 06/27/2017 2231
 Leach Date: N/A

Analysis Batch: 480-364320
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973C
 Lab File ID: C5070.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 5 mL

LCSD Lab Sample ID: LCSD 480-364320/10
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/27/2017 2257
 Prep Date: 06/27/2017 2257
 Leach Date: N/A

Analysis Batch: 480-364320
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973C
 Lab File ID: C5071.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL
 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
1,1,1-Trichloroethane	80	82	73 - 126	2	15		
1,1-Dichloroethane	82	83	77 - 120	2	20		
1,1-Dichloroethene	74	76	66 - 127	3	16		
1,2-Dichloroethane	84	82	75 - 120	3	20		
Acetone	87	85	56 - 142	3	15		
Benzene	79	81	71 - 124	2	13		
Chloroethane	84	89	69 - 136	5	15		
cis-1,2-Dichloroethene	79	80	74 - 124	1	15		
Ethylbenzene	90	95	77 - 123	5	15		
Tetrachloroethene	101	111	74 - 122	9	20		
Trichloroethene	80	83	74 - 123	3	16		
Vinyl chloride	94	99	65 - 133	4	15		
Xylenes, Total	89	92	76 - 122	4	16		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	89		85		77 - 120		
4-Bromofluorobenzene (Surr)	89		89		73 - 120		
Toluene-d8 (Surr)	94		94		80 - 120		
Dibromofluoromethane (Surr)	77		75		75 - 123		

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 480-364320

Method: 8260C
Preparation: 5030C

LCS Lab Sample ID: LCS 480-364320/5 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/27/2017 2231
Prep Date: 06/27/2017 2231
Leach Date: N/A

LCSD Lab Sample ID: LCSD 480-364320/10
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/27/2017 2257
Prep Date: 06/27/2017 2257
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	19.94	20.41
1,1-Dichloroethane	25.0	25.0	20.48	20.86
1,1-Dichloroethene	25.0	25.0	18.51	19.11
1,2-Dichloroethane	25.0	25.0	21.10	20.53
Acetone	125	125	109.0	105.8
Benzene	25.0	25.0	19.82	20.27
Chloroethane	25.0	25.0	21.08	22.22
cis-1,2-Dichloroethene	25.0	25.0	19.73	19.92
Ethylbenzene	25.0	25.0	22.62	23.67
Tetrachloroethene	25.0	25.0	25.32	27.70
Trichloroethene	25.0	25.0	20.02	20.71
Vinyl chloride	25.0	25.0	23.59	24.64
Xylenes, Total	50.0	50.0	44.32	46.13

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-364320**

**Method: 8260C
Preparation: 5030C**

MS Lab Sample ID: 480-120094-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/28/2017 0802
Prep Date: 06/28/2017 0802
Leach Date: N/A

Analysis Batch: 480-364320
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973C
Lab File ID: C5092.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

MSD Lab Sample ID: 480-120094-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/28/2017 0827
Prep Date: 06/28/2017 0827
Leach Date: N/A

Analysis Batch: 480-364320
Prep Batch: N/A
Leach Batch: N/A

Instrument ID: HP5973C
Lab File ID: C5093.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1,1-Trichloroethane	100	103	73 - 126	3	15		
1,1-Dichloroethane	100	103	77 - 120	3	20		
1,1-Dichloroethene	92	95	66 - 127	3	16		
1,2-Dichloroethane	97	99	75 - 120	2	20		
Acetone	97	99	56 - 142	2	15		
Benzene	97	99	71 - 124	2	13		
Chloroethane	122	122	69 - 136	0	15		
cis-1,2-Dichloroethene	95	97	74 - 124	2	15		
Ethylbenzene	96	96	77 - 123	1	15		
Tetrachloroethene	92	92	74 - 122	0	20		
Trichloroethene	95	96	74 - 123	2	16		
Vinyl chloride	145	143	65 - 133	1	15	F1	F1
Xylenes, Total	95	94	76 - 122	1	16		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88	90	77 - 120
4-Bromofluorobenzene (Surr)	89	88	73 - 120
Toluene-d8 (Surr)	91	89	80 - 120
Dibromofluoromethane (Surr)	86	86	75 - 123

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-364320

Method: 8260C
Preparation: 5030C

MS Lab Sample ID: 480-120094-3 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/28/2017 0802
Prep Date: 06/28/2017 0802
Leach Date: N/A

MSD Lab Sample ID: 480-120094-3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 06/28/2017 0827
Prep Date: 06/28/2017 0827
Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1,1-Trichloroethane	0.820	U	25.0	25.0	24.91	25.69
1,1-Dichloroethane	0.380	U	25.0	25.0	25.12	25.81
1,1-Dichloroethene	0.290	U	25.0	25.0	23.10	23.73
1,2-Dichloroethane	0.210	U	25.0	25.0	24.33	24.82
Acetone	3.00	U	125	125	121.2	123.2
Benzene	0.518	J	25.0	25.0	24.72	25.15
Chloroethane	0.320	U	25.0	25.0	30.47	30.44
cis-1,2-Dichloroethene	2.61		25.0	25.0	26.36	26.88
Ethylbenzene	0.740	U	25.0	25.0	24.08	23.92
Tetrachloroethene	0.360	U	25.0	25.0	22.93	22.96
Trichloroethene	0.460	U	25.0	25.0	23.67	24.08
Vinyl chloride	5.41		25.0	25.0	41.67	F1 41.15
Xylenes, Total	0.660	U	50.0	50.0	47.36	F1 46.79

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Method Blank - Batch: 480-364568

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-364568/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/28/2017 2144
 Prep Date: 06/28/2017 2144
 Leach Date: N/A

Analysis Batch: 480-364568
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973C
 Lab File ID: C5137.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.380	U	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	0.810	U	0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	0.810	U	0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	0.900	U	0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113	77 - 120
4-Bromofluorobenzene (Surr)	85	73 - 120
Toluene-d8 (Surr)	105	80 - 120
Dibromofluoromethane (Surr)	101	75 - 123

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Lab Control Sample - Batch: 480-364568

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-364568/5	Analysis Batch:	480-364568	Instrument ID:	HP5973C
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C5135.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/28/2017 2053	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/28/2017 2053				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	25.0	22.93	92	73 - 126	
1,1-Dichloroethane	25.0	23.47	94	77 - 120	
1,1-Dichloroethene	25.0	21.60	86	66 - 127	
1,2-Dichloroethane	25.0	24.06	96	75 - 120	
Acetone	125	128.3	103	56 - 142	
Benzene	25.0	22.88	92	71 - 124	
Chloroethane	25.0	24.24	97	69 - 136	
cis-1,2-Dichloroethene	25.0	22.62	90	74 - 124	
Ethylbenzene	25.0	22.61	90	77 - 123	
Tetrachloroethene	25.0	21.85	87	74 - 122	
Trichloroethene	25.0	21.96	88	74 - 123	
Vinyl chloride	25.0	28.09	112	65 - 133	
Xylenes, Total	50.0	44.33	89	76 - 122	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		
4-Bromofluorobenzene (Surr)	87		73 - 120		
Toluene-d8 (Surr)	107		80 - 120		
Dibromofluoromethane (Surr)	104		75 - 123		

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Method Blank - Batch: 480-364910

Method: 8260C

Preparation: 5030C

Lab Sample ID: MB 480-364910/6
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 06/30/2017 1228
 Prep Date: 06/30/2017 1228
 Leach Date: N/A

Analysis Batch: 480-364910
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973N
 Lab File ID: N9253.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.820	U	0.820	1.00
1,1-Dichloroethane	0.380	U	0.380	1.00
1,1-Dichloroethene	0.290	U	0.290	1.00
1,2-Dichloroethane	0.210	U	0.210	1.00
1,2-Dichloroethene, Total	0.810	U	0.810	2.00
Acetone	3.00	U	3.00	10.0
Benzene	0.410	U	0.410	1.00
Chloroethane	0.320	U	0.320	1.00
cis-1,2-Dichloroethene	0.810	U	0.810	1.00
Ethylbenzene	0.740	U	0.740	1.00
Tetrachloroethene	0.360	U	0.360	1.00
Trichloroethene	0.460	U	0.460	1.00
Vinyl chloride	0.900	U	0.900	1.00
Xylenes, Total	0.660	U	0.660	2.00

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108	77 - 120
4-Bromofluorobenzene (Surr)	99	73 - 120
Toluene-d8 (Surr)	104	80 - 120
Dibromofluoromethane (Surr)	111	75 - 123

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Lab Control Sample - Batch: 480-364910

Method: 8260C

Preparation: 5030C

Lab Sample ID:	LCS 480-364910/4	Analysis Batch:	480-364910	Instrument ID:	HP5973N
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N9251.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/30/2017 1133	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/30/2017 1133				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	25.0	25.00	100	73 - 126	
1,1-Dichloroethane	25.0	24.45	98	77 - 120	
1,1-Dichloroethene	25.0	25.90	104	66 - 127	
1,2-Dichloroethane	25.0	23.45	94	75 - 120	
Acetone	125	151.4	121	56 - 142	
Benzene	25.0	24.88	100	71 - 124	
Chloroethane	25.0	27.69	111	69 - 136	
cis-1,2-Dichloroethene	25.0	25.94	104	74 - 124	
Ethylbenzene	25.0	25.41	102	77 - 123	
Tetrachloroethene	25.0	24.56	98	74 - 122	
Trichloroethene	25.0	25.87	103	74 - 123	
Vinyl chloride	25.0	24.27	97	65 - 133	
Xylenes, Total	50.0	51.66	103	76 - 122	
Surrogate	% Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		
4-Bromofluorobenzene (Surr)	98		73 - 120		
Toluene-d8 (Surr)	105		80 - 120		
Dibromofluoromethane (Surr)	109		75 - 123		

DATA REPORTING QUALIFIERS

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Lab Section	Qualifier	Description
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-364320					
LCS 480-364320/5	Lab Control Sample	T	Water	8260C	
LCSD 480-364320/10	Lab Control Sample Duplicate	T	Water	8260C	
MB 480-364320/8	Method Blank	T	Water	8260C	
480-120094-1	MW-07S-062317	T	Water	8260C	
480-120094-2	MW-7D-062317	T	Water	8260C	
480-120094-3	X-A-1-062317	T	Water	8260C	
480-120094-3MS	Matrix Spike	T	Water	8260C	
480-120094-3MSD	Matrix Spike Duplicate	T	Water	8260C	
480-120094-4	X-A-3-062317	T	Water	8260C	
480-120094-5	X-A-3-062317-DUP	T	Water	8260C	
480-120094-6	X-C-3-062317	T	Water	8260C	
Analysis Batch:480-364568					
LCS 480-364568/5	Lab Control Sample	T	Water	8260C	
MB 480-364568/7	Method Blank	T	Water	8260C	
480-120094-8	MW-04-062317	T	Water	8260C	
480-120094-9	MW-02-062317	T	Water	8260C	
480-120094-10	MW-01-062317	T	Water	8260C	
480-120094-11	TB-001-062317	T	Water	8260C	
Analysis Batch:480-364910					
LCS 480-364910/4	Lab Control Sample	T	Water	8260C	
MB 480-364910/6	Method Blank	T	Water	8260C	
480-120094-7	RW-02-062317	T	Water	8260C	

Report Basis

T = Total

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Laboratory Chronicle

Lab ID: 480-120094-1

Client ID: MW-07S-062317

Sample Date/Time: 06/23/2017 12:30 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-1		480-364320		06/28/2017 04:14	1	TAL BUF	JAS
A:8260C	480-120094-A-1		480-364320		06/28/2017 04:14	1	TAL BUF	JAS

Lab ID: 480-120094-2

Client ID: MW-7D-062317

Sample Date/Time: 06/23/2017 12:45 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-2		480-364320		06/28/2017 04:40	1	TAL BUF	JAS
A:8260C	480-120094-A-2		480-364320		06/28/2017 04:40	1	TAL BUF	JAS

Lab ID: 480-120094-3

Client ID: X-A-1-062317

Sample Date/Time: 06/23/2017 13:00 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-3		480-364320		06/28/2017 05:05	1	TAL BUF	JAS
A:8260C	480-120094-A-3		480-364320		06/28/2017 05:05	1	TAL BUF	JAS

Lab ID: 480-120094-3

Client ID: X-A-1-062317-MS

Sample Date/Time: 06/23/2017 13:00 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-3 MS		480-364320		06/28/2017 08:02	1	TAL BUF	JAS
A:8260C	480-120094-A-3 MS		480-364320		06/28/2017 08:02	1	TAL BUF	JAS

Lab ID: 480-120094-3

Client ID: X-A-1-062317-MSD

Sample Date/Time: 06/23/2017 13:00 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-3 MSD		480-364320		06/28/2017 08:27	1	TAL BUF	JAS
A:8260C	480-120094-A-3 MSD		480-364320		06/28/2017 08:27	1	TAL BUF	JAS

Lab ID: 480-120094-4

Client ID: X-A-3-062317

Sample Date/Time: 06/23/2017 13:45 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-4		480-364320		06/28/2017 05:30	1	TAL BUF	JAS
A:8260C	480-120094-A-4		480-364320		06/28/2017 05:30	1	TAL BUF	JAS

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Laboratory Chronicle

Lab ID: 480-120094-5

Client ID: X-A-3-062317-DUP

Sample Date/Time: 06/23/2017 13:50 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-5		480-364320		06/28/2017 05:56	1	TAL BUF	JAS
A:8260C	480-120094-A-5		480-364320		06/28/2017 05:56	1	TAL BUF	JAS

Lab ID: 480-120094-6

Client ID: X-C-3-062317

Sample Date/Time: 06/23/2017 13:30 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-6		480-364320		06/28/2017 06:21	1	TAL BUF	JAS
A:8260C	480-120094-A-6		480-364320		06/28/2017 06:21	1	TAL BUF	JAS

Lab ID: 480-120094-7

Client ID: RW-02-062317

Sample Date/Time: 06/23/2017 14:30 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-B-7		480-364910		06/30/2017 13:52	1	TAL BUF	LCH
A:8260C	480-120094-B-7		480-364910		06/30/2017 13:52	1	TAL BUF	LCH

Lab ID: 480-120094-8

Client ID: MW-04-062317

Sample Date/Time: 06/23/2017 14:45 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-8		480-364568		06/28/2017 22:50	1	TAL BUF	JAS
A:8260C	480-120094-A-8		480-364568		06/28/2017 22:50	1	TAL BUF	JAS

Lab ID: 480-120094-9

Client ID: MW-02-062317

Sample Date/Time: 06/23/2017 15:15 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-9		480-364568		06/28/2017 23:16	1	TAL BUF	JAS
A:8260C	480-120094-A-9		480-364568		06/28/2017 23:16	1	TAL BUF	JAS

Lab ID: 480-120094-10

Client ID: MW-01-062317

Sample Date/Time: 06/23/2017 15:30 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-10		480-364568		06/28/2017 23:41	1	TAL BUF	JAS
A:8260C	480-120094-A-10		480-364568		06/28/2017 23:41	1	TAL BUF	JAS

Quality Control Results

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Laboratory Chronicle

Lab ID: 480-120094-11

Client ID: TB-001-062317

Sample Date/Time: 06/23/2017 00:00 Received Date/Time: 06/23/2017 17:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	480-120094-A-11		480-364568		06/29/2017 00:06	1	TAL BUF	JAS
A:8260C	480-120094-A-11		480-364568		06/29/2017 00:06	1	TAL BUF	JAS

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 480-364320/8		480-364320		06/27/2017 23:48	1	TAL BUF	JAS
A:8260C	MB 480-364320/8		480-364320		06/27/2017 23:48	1	TAL BUF	JAS
P:5030C	MB 480-364568/7		480-364568		06/28/2017 21:44	1	TAL BUF	JAS
A:8260C	MB 480-364568/7		480-364568		06/28/2017 21:44	1	TAL BUF	JAS
P:5030C	MB 480-364910/6		480-364910		06/30/2017 12:28	1	TAL BUF	LCH
A:8260C	MB 480-364910/6		480-364910		06/30/2017 12:28	1	TAL BUF	LCH

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 480-364320/5		480-364320		06/27/2017 22:31	1	TAL BUF	JAS
A:8260C	LCS 480-364320/5		480-364320		06/27/2017 22:31	1	TAL BUF	JAS
P:5030C	LCS 480-364568/5		480-364568		06/28/2017 20:53	1	TAL BUF	JAS
A:8260C	LCS 480-364568/5		480-364568		06/28/2017 20:53	1	TAL BUF	JAS
P:5030C	LCS 480-364910/4		480-364910		06/30/2017 11:33	1	TAL BUF	LCH
A:8260C	LCS 480-364910/4		480-364910		06/30/2017 11:33	1	TAL BUF	LCH

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 480-364320/10		480-364320		06/27/2017 22:57	1	TAL BUF	JAS
A:8260C	LCSD 480-364320/10		480-364320		06/27/2017 22:57	1	TAL BUF	JAS

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	State Program	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	10026 (NY)
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAP	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky (DW)	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Kentucky (WW)	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-15-6
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 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 #
MW-07S-062317	480-120094-1	85	94	90	86
MW-7D-062317	480-120094-2	86	94	90	85
X-A-1-062317	480-120094-3	88	95	91	87
X-A-3-062317	480-120094-4	87	94	91	87
X-A-3-062317-DUP	480-120094-5	85	92	90	87
X-C-3-062317	480-120094-6	88	94	90	86
RW-02-062317	480-120094-7	112	114	105	103
MW-04-062317	480-120094-8	103	115	105	84
MW-02-062317	480-120094-9	102	115	104	85
MW-01-062317	480-120094-10	105	118	104	85
TB-001-062317	480-120094-11	102	115	105	85
	MB 480-364320/8	87	92	92	88
	MB 480-364568/7	101	113	105	85
	MB 480-364910/6	111	108	104	99
	LCS 480-364320/5	77	89	94	89
	LCS 480-364568/5	104	112	107	87
	LCS 480-364910/4	109	111	105	98
	LCSD 480-364320/10	75	85	94	89
X-A-1-062317-MS MS	480-120094-3 MS	86	88	91	89
X-A-1-062317-MSD MSD	480-120094-3 MSD	86	90	89	88

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C5070.D
 Lab ID: LCS 480-364320/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	19.94	80	73-126	
1,1-Dichloroethane	25.0	20.48	82	77-120	
1,1-Dichloroethene	25.0	18.51	74	66-127	
1,2-Dichloroethane	25.0	21.10	84	75-120	
Acetone	125	109.0	87	56-142	
Benzene	25.0	19.82	79	71-124	
Chloroethane	25.0	21.08	84	69-136	
cis-1,2-Dichloroethene	25.0	19.73	79	74-124	
Ethylbenzene	25.0	22.62	90	77-123	
Tetrachloroethene	25.0	25.32	101	74-122	
Trichloroethene	25.0	20.02	80	74-123	
Vinyl chloride	25.0	23.59	94	65-133	
Xylenes, Total	50.0	44.32	89	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C5135.D
 Lab ID: LCS 480-364568/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	22.93	92	73-126	
1,1-Dichloroethane	25.0	23.47	94	77-120	
1,1-Dichloroethene	25.0	21.60	86	66-127	
1,2-Dichloroethane	25.0	24.06	96	75-120	
Acetone	125	128.3	103	56-142	
Benzene	25.0	22.88	92	71-124	
Chloroethane	25.0	24.24	97	69-136	
cis-1,2-Dichloroethene	25.0	22.62	90	74-124	
Ethylbenzene	25.0	22.61	90	77-123	
Tetrachloroethene	25.0	21.85	87	74-122	
Trichloroethene	25.0	21.96	88	74-123	
Vinyl chloride	25.0	28.09	112	65-133	
Xylenes, Total	50.0	44.33	89	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: N9251.D
 Lab ID: LCS 480-364910/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.00	100	73-126	
1,1-Dichloroethane	25.0	24.45	98	77-120	
1,1-Dichloroethene	25.0	25.90	104	66-127	
1,2-Dichloroethane	25.0	23.45	94	75-120	
Acetone	125	151.4	121	56-142	
Benzene	25.0	24.88	100	71-124	
Chloroethane	25.0	27.69	111	69-136	
cis-1,2-Dichloroethene	25.0	25.94	104	74-124	
Ethylbenzene	25.0	25.41	102	77-123	
Tetrachloroethene	25.0	24.56	98	74-122	
Trichloroethene	25.0	25.87	103	74-123	
Vinyl chloride	25.0	24.27	97	65-133	
Xylenes, Total	50.0	51.66	103	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C5071.D
 Lab ID: LCSD 480-364320/10 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	25.0	20.41	82	2	15	73-126	
1,1-Dichloroethane	25.0	20.86	83	2	20	77-120	
1,1-Dichloroethene	25.0	19.11	76	3	16	66-127	
1,2-Dichloroethane	25.0	20.53	82	3	20	75-120	
Acetone	125	105.8	85	3	15	56-142	
Benzene	25.0	20.27	81	2	13	71-124	
Chloroethane	25.0	22.22	89	5	15	69-136	
cis-1,2-Dichloroethene	25.0	19.92	80	1	15	74-124	
Ethylbenzene	25.0	23.67	95	5	15	77-123	
Tetrachloroethene	25.0	27.70	111	9	20	74-122	
Trichloroethene	25.0	20.71	83	3	16	74-123	
Vinyl chloride	25.0	24.64	99	4	15	65-133	
Xylenes, Total	50.0	46.13	92	4	16	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C5092.D
 Lab ID: 480-120094-3 MS Client ID: X-A-1-062317-MS 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	0.820 U	24.91	100	73-126	
1,1-Dichloroethane	25.0	0.380 U	25.12	100	77-120	
1,1-Dichloroethene	25.0	0.290 U	23.10	92	66-127	
1,2-Dichloroethane	25.0	0.210 U	24.33	97	75-120	
Acetone	125	3.00 U	121.2	97	56-142	
Benzene	25.0	0.518 J	24.72	97	71-124	
Chloroethane	25.0	0.320 U	30.47	122	69-136	
cis-1,2-Dichloroethene	25.0	2.61	26.36	95	74-124	
Ethylbenzene	25.0	0.740 U	24.08	96	77-123	
Tetrachloroethene	25.0	0.360 U	22.93	92	74-122	
Trichloroethene	25.0	0.460 U	23.67	95	74-123	
Vinyl chloride	25.0	5.41	41.67	145	65-133	F1
Xylenes, Total	50.0	0.660 U	47.36	95	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: C5093.D
 Lab ID: 480-120094-3 MSD Client ID: X-A-1-062317-MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	25.0	25.69	103	3	15	73-126	
1,1-Dichloroethane	25.0	25.81	103	3	20	77-120	
1,1-Dichloroethene	25.0	23.73	95	3	16	66-127	
1,2-Dichloroethane	25.0	24.82	99	2	20	75-120	
Acetone	125	123.2	99	2	15	56-142	
Benzene	25.0	25.15	99	2	13	71-124	
Chloroethane	25.0	30.44	122	0	15	69-136	
cis-1,2-Dichloroethene	25.0	26.88	97	2	15	74-124	
Ethylbenzene	25.0	23.92	96	1	15	77-123	
Tetrachloroethene	25.0	22.96	92	0	20	74-122	
Trichloroethene	25.0	24.08	96	2	16	74-123	
Vinyl chloride	25.0	41.15	143	1	15	65-133	F1
Xylenes, Total	50.0	46.79	94	1	16	76-122	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab File ID: C5073.D Lab Sample ID: MB 480-364320/8
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973C Date Analyzed: 06/27/2017 23:48
 GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-364320/5	C5070.D	06/27/2017 22:31
	LCSD 480-364320/10	C5071.D	06/27/2017 22:57
MW-07S-062317	480-120094-1	C5083.D	06/28/2017 04:14
MW-7D-062317	480-120094-2	C5084.D	06/28/2017 04:40
X-A-1-062317	480-120094-3	C5085.D	06/28/2017 05:05
X-A-3-062317	480-120094-4	C5086.D	06/28/2017 05:30
X-A-3-062317-DUP	480-120094-5	C5087.D	06/28/2017 05:56
X-C-3-062317	480-120094-6	C5088.D	06/28/2017 06:21
X-A-1-062317-MS MS	480-120094-3 MS	C5092.D	06/28/2017 08:02
X-A-1-062317-MSD MSD	480-120094-3 MSD	C5093.D	06/28/2017 08:27

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
SDG No.: _____
Lab File ID: C5137.D Lab Sample ID: MB 480-364568/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973C Date Analyzed: 06/28/2017 21:44
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 480-364568/5	C5135.D	06/28/2017 20:53
MW-04-062317	480-120094-8	C5139.D	06/28/2017 22:50
MW-02-062317	480-120094-9	C5140.D	06/28/2017 23:16
MW-01-062317	480-120094-10	C5141.D	06/28/2017 23:41
TB-001-062317	480-120094-11	C5142.D	06/29/2017 00:06

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
SDG No.: _____
Lab File ID: N9253.D Lab Sample ID: MB 480-364910/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973N Date Analyzed: 06/30/2017 12:28
GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-364910/4	N9251.D	06/30/2017 11:33
RW-02-062317	480-120094-7	N9254.D	06/30/2017 13:52

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
SDG No.: _____
Lab File ID: C4687.D BFB Injection Date: 06/19/2017
Instrument ID: HP5973C BFB Injection Time: 14:22
Analysis Batch No.: 362749

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.8
75	30.0 - 60.0 % of mass 95	46.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	8.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	85.1
175	5.0 - 9.0 % of mass 174	6.2 (7.3) 1
176	95.0 - 101.0 % of mass 174	82.3 (96.8) 1
177	5.0 - 9.0 % of mass 176	5.8 (7.0) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-362749/8	C4689.D	06/19/2017	15:19
	IC 480-362749/9	C4690.D	06/19/2017	15:44
	IC 480-362749/10	C4691.D	06/19/2017	16:10
	IC 480-362749/11	C4692.D	06/19/2017	16:35
	IC 480-362749/12	C4693.D	06/19/2017	17:00
	ICIS 480-362749/13	C4694.D	06/19/2017	17:25
	IC 480-362749/14	C4695.D	06/19/2017	17:50
	IC 480-362749/15	C4696.D	06/19/2017	18:15
	IC 480-362749/20	C4701.D	06/19/2017	20:20
	IC 480-362749/21	C4702.D	06/19/2017	20:46
	IC 480-362749/22	C4703.D	06/19/2017	21:10
	IC 480-362749/23	C4704.D	06/19/2017	21:36
	IC 480-362749/24	C4705.D	06/19/2017	22:01
	IC 480-362749/25	C4706.D	06/19/2017	22:27
	IC 480-362749/26	C4707.D	06/19/2017	22:52
	ICV 480-362749/29	C4710.D	06/20/2017	00:07

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab File ID: C5067.D BFB Injection Date: 06/27/2017
 Instrument ID: HP5973C BFB Injection Time: 21:12
 Analysis Batch No.: 364320

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.8
75	30.0 - 60.0 % of mass 95	48.1
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	80.5
175	5.0 - 9.0 % of mass 174	5.8 (7.1) 1
176	95.0 - 101.0 % of mass 174	78.1 (96.9) 1
177	5.0 - 9.0 % of mass 176	5.1 (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 480-364320/3	C5068.D	06/27/2017	21:40
	LCS 480-364320/5	C5070.D	06/27/2017	22:31
	LCSD 480-364320/10	C5071.D	06/27/2017	22:57
	MB 480-364320/8	C5073.D	06/27/2017	23:48
MW-07S-062317	480-120094-1	C5083.D	06/28/2017	04:14
MW-7D-062317	480-120094-2	C5084.D	06/28/2017	04:40
X-A-1-062317	480-120094-3	C5085.D	06/28/2017	05:05
X-A-3-062317	480-120094-4	C5086.D	06/28/2017	05:30
X-A-3-062317-DUP	480-120094-5	C5087.D	06/28/2017	05:56
X-C-3-062317	480-120094-6	C5088.D	06/28/2017	06:21
X-A-1-062317-MS MS	480-120094-3 MS	C5092.D	06/28/2017	08:02
X-A-1-062317-MSD MSD	480-120094-3 MSD	C5093.D	06/28/2017	08:27

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab File ID: C5132.D BFB Injection Date: 06/28/2017
 Instrument ID: HP5973C BFB Injection Time: 19:32
 Analysis Batch No.: 364568

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.4
75	30.0 - 60.0 % of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	8.0
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	79.9
175	5.0 - 9.0 % of mass 174	5.7 (7.1) 1
176	95.0 - 101.0 % of mass 174	78.2 (97.8) 1
177	5.0 - 9.0 % of mass 176	5.3 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-364568/3	C5133.D	06/28/2017	20:02
	LCS 480-364568/5	C5135.D	06/28/2017	20:53
	MB 480-364568/7	C5137.D	06/28/2017	21:44
MW-04-062317	480-120094-8	C5139.D	06/28/2017	22:50
MW-02-062317	480-120094-9	C5140.D	06/28/2017	23:16
MW-01-062317	480-120094-10	C5141.D	06/28/2017	23:41
TB-001-062317	480-120094-11	C5142.D	06/29/2017	00:06

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab File ID: N9065.D BFB Injection Date: 06/26/2017
 Instrument ID: HP5973N BFB Injection Time: 14:23
 Analysis Batch No.: 363987

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	34.9
75	30.0 - 60.0 % of mass 95	50.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	81.9
175	5.0 - 9.0 % of mass 174	6.2 (7.6) 1
176	95.0 - 101.0 % of mass 174	79.7 (97.3) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-363987/6	N9067.D	06/26/2017	15:18
	IC 480-363987/7	N9068.D	06/26/2017	15:45
	IC 480-363987/8	N9069.D	06/26/2017	16:12
	IC 480-363987/9	N9070.D	06/26/2017	16:40
	IC 480-363987/10	N9071.D	06/26/2017	17:07
	ICIS 480-363987/11	N9072.D	06/26/2017	17:35
	IC 480-363987/12	N9073.D	06/26/2017	18:01
	IC 480-363987/13	N9074.D	06/26/2017	18:28
	ICV 480-363987/27	N9088.D	06/27/2017	00:49

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab File ID: N9248.D BFB Injection Date: 06/30/2017
 Instrument ID: HP5973N BFB Injection Time: 09:38
 Analysis Batch No.: 364910

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	31.5
75	30.0 - 60.0 % of mass 95	45.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.5
173	Less than 2.0 % of mass 174	0.6 (0.7) 1
174	50.0 - 120.00 % of mass 95	77.9
175	5.0 - 9.0 % of mass 174	6.5 (8.4) 1
176	95.0 - 101.0 % of mass 174	76.0 (97.6) 1
177	5.0 - 9.0 % of mass 176	5.3 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-364910/2	N9249.D	06/30/2017	10:12
	LCS 480-364910/4	N9251.D	06/30/2017	11:33
	MB 480-364910/6	N9253.D	06/30/2017	12:28
RW-02-062317	480-120094-7	N9254.D	06/30/2017	13:52

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Sample No.: ICIS 480-362749/13 Date Analyzed: 06/19/2017 17:25
 Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): C4694.D Heated Purge: (Y/N) N
 Calibration ID: 30743

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	131074	9.43	294775	11.84	321861	13.85	
UPPER LIMIT	262148	9.93	589550	12.34	643722	14.35	
LOWER LIMIT	65537	8.93	147388	11.34	160931	13.35	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-362749/29		135607	9.43	304486	11.84	329642	13.85
CCVIS 480-364320/3		146962	9.43	307708	11.84	302536	13.85
CCVIS 480-364568/3		139746	9.43	298388	11.84	290500	13.85

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Sample No.: CCVIS 480-364320/3 Date Analyzed: 06/27/2017 21:40
 Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): C5068.D Heated Purge: (Y/N) N
 Calibration ID: 30746

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	146962	9.43	307708	11.84	302536	13.85
UPPER LIMIT	293924	9.93	615416	12.34	605072	14.35
LOWER LIMIT	73481	8.93	153854	11.34	151268	13.35
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 480-364320/5		168520	9.43	312860	11.84	311238
LCSD 480-364320/10		172289	9.43	309109	11.84	306674
MB 480-364320/8		140789	9.43	298820	11.84	288472
480-120094-1	MW-07S-062317	135130	9.43	286738	11.84	272962
480-120094-2	MW-7D-062317	135342	9.43	287589	11.84	266879
480-120094-3	X-A-1-062317	132496	9.43	281433	11.84	270380
480-120094-4	X-A-3-062317	131872	9.43	277770	11.84	263723
480-120094-5	X-A-3-062317-DUP	133492	9.43	279620	11.84	264108
480-120094-6	X-C-3-062317	130724	9.43	282183	11.84	266430
480-120094-3 MS	X-A-1-062317-MS MS	138656	9.43	291351	11.84	280672
480-120094-3 MSD	X-A-1-062317-MSD MSD	138909	9.43	299497	11.84	290505

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Sample No.: CCVIS 480-364568/3 Date Analyzed: 06/28/2017 20:02
 Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): C5133.D Heated Purge: (Y/N) N
 Calibration ID: 30746

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		139746	9.43	298388	11.84	290500	13.85
UPPER LIMIT		279492	9.93	596776	12.34	581000	14.35
LOWER LIMIT		69873	8.93	149194	11.34	145250	13.35
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 480-364568/5		142594	9.43	300289	11.84	290141	13.85
MB 480-364568/7		139871	9.43	293243	11.84	275574	13.85
480-120094-8	MW-04-062317	134893	9.43	283251	11.84	266958	13.85
480-120094-9	MW-02-062317	133169	9.43	283341	11.84	268268	13.85
480-120094-10	MW-01-062317	131096	9.43	278616	11.84	264091	13.85
480-120094-11	TB-001-062317	134013	9.43	276409	11.84	263533	13.85

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Sample No.: ICIS 480-363987/11 Date Analyzed: 06/26/2017 17:35
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N9072.D Heated Purge: (Y/N) N
 Calibration ID: 30775

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	198329	5.51	729645	8.50	357960	10.89	
UPPER LIMIT	396658	6.01	1459290	9.00	715920	11.39	
LOWER LIMIT	99165	5.01	364823	8.00	178980	10.39	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-363987/27		192690	5.51	708020	8.50	351341	10.89
CCVIS 480-364910/2		199055	5.51	736023	8.50	348483	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Sample No.: CCVIS 480-364910/2 Date Analyzed: 06/30/2017 10:12
 Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): N9249.D Heated Purge: (Y/N) N
 Calibration ID: 30777

		FB		CBNZd5		DCBd4		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		199055	5.51	736023	8.50	348483	10.89	
UPPER LIMIT		398110	6.01	1472046	9.00	696966	11.39	
LOWER LIMIT		99528	5.01	368012	8.00	174242	10.39	
LAB SAMPLE ID		CLIENT SAMPLE ID						
LCS 480-364910/4		192456	5.51	734571	8.50	354072	10.89	
MB 480-364910/6		189120	5.51	707132	8.50	327093	10.89	
480-120094-7		RW-02-062317	178441	5.51	683845	8.50	323996	10.89

FB = Fluorobenzene (IS)
 CBNZd5 = Chlorobenzene-d5
 DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: MW-07S-062317 Lab Sample ID: 480-120094-1
 Matrix: Water Lab File ID: C5083.D
 Analysis Method: 8260C Date Collected: 06/23/2017 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 04:14
 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.: 364320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.691	J	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	0.810	U	2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	0.810	U	1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	0.900	U	1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	86		73-120
2037-26-5	Toluene-d8 (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	85		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5083.D
 Lims ID: 480-120094-A-1
 Client ID: MW-07S-062317
 Sample Type: Client
 Inject. Date: 28-Jun-2017 04:14:30 ALS Bottle#: 17 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-1
 Misc. Info.: 480-0063636-026
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 14:23:34 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: schreiberj

Date: 28-Jun-2017 14:23:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	135130	25.0	
* 2 Chlorobenzene-d5	82	11.835	11.836	-0.001	86	286738	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.852	-0.001	96	272962	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	-0.001	93	144005	21.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	93135	23.5	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	584891	22.6	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	88	198548	21.5	
13 Vinyl chloride	62		5.135				ND	
15 Chloroethane	64		5.871				ND	
22 1,1-Dichloroethene	96		6.879				ND	
23 Acetone	43		6.914				ND	
34 trans-1,2-Dichloroethene	96		7.626				ND	
39 1,1-Dichloroethane	63	8.029	8.017	0.012	94	14231	0.6912	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	0	1937	0.1388	
51 1,1,1-Trichloroethane	97		8.942				ND	
57 Benzene	78		9.239				ND	
58 1,2-Dichloroethane	62		9.250				ND	
62 Trichloroethene	95		9.713				ND	
81 Tetrachloroethene	166		11.160				ND	
88 Ethylbenzene	91		11.871				ND	
90 m-Xylene & p-Xylene	106		11.942				ND	
91 o-Xylene	106		12.298				ND	
S 124 Xylenes, Total	1		30.000				ND	
S 125 1,2-Dichloroethene, Total	1				0		0.1388	

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5083.D

Injection Date: 28-Jun-2017 04:14:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-1

Lab Sample ID: 480-120094-1

Worklist Smp#: 26

Client ID: MW-07S-062317

Purge Vol: 5.000 mL

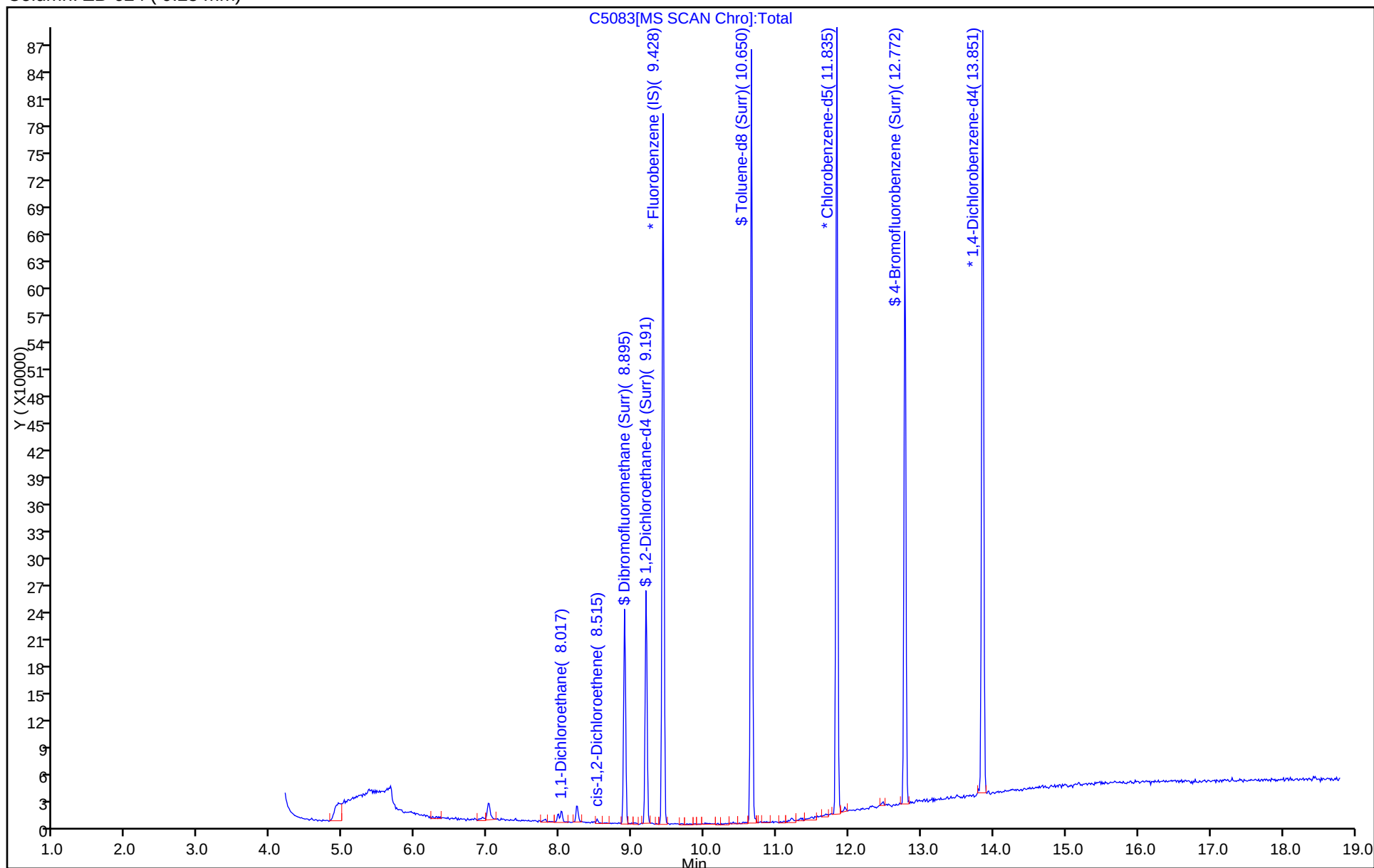
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5083.D

Injection Date: 28-Jun-2017 04:14:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-1

Lab Sample ID: 480-120094-1

Client ID: MW-07S-062317

Operator ID: RR

ALS Bottle#: 17

Worklist Smp#: 26

Purge Vol: 5.000 mL

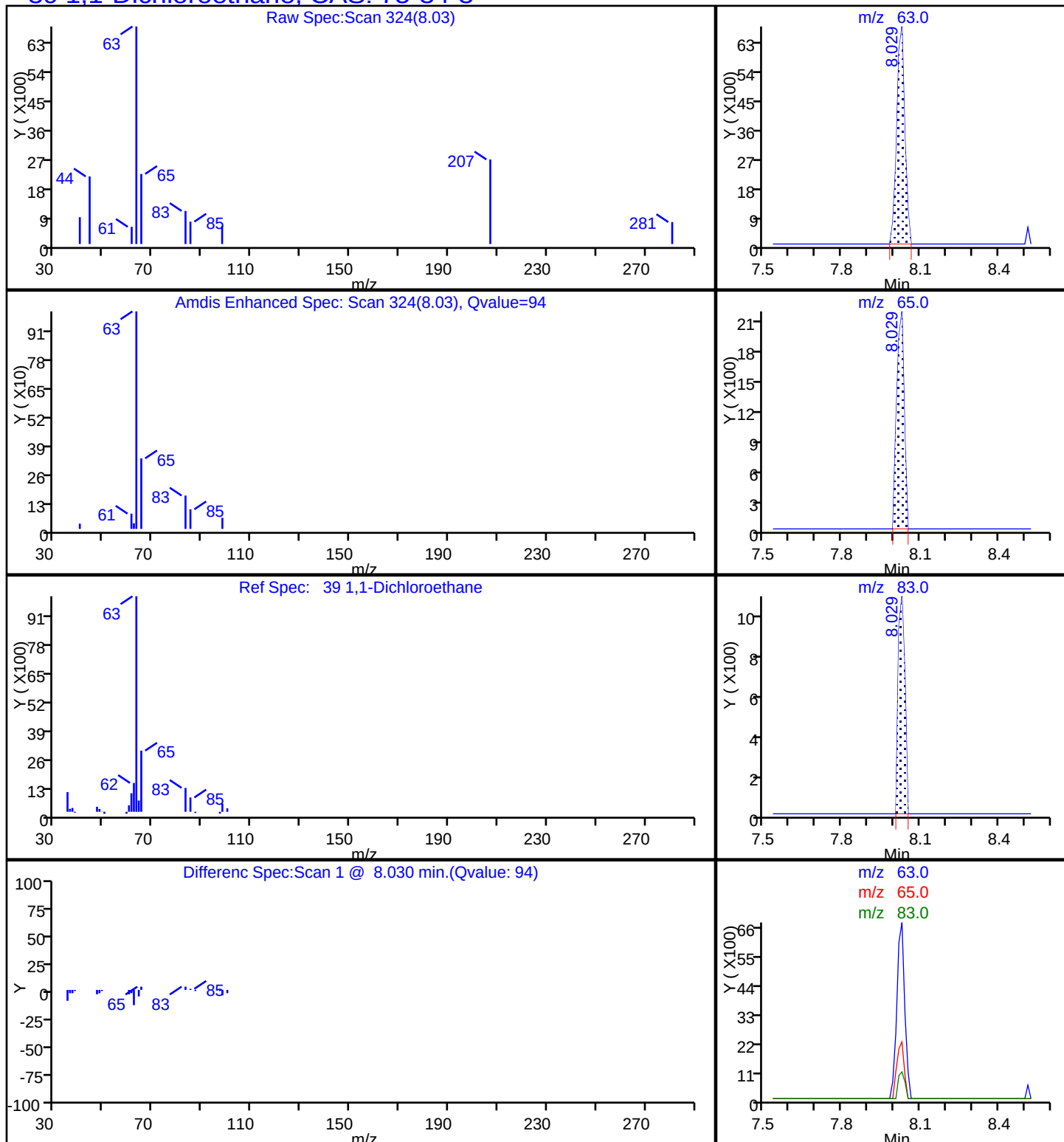
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-120094-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-7D-062317</u>	Lab Sample ID: <u>480-120094-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>C5084.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>06/23/2017 12:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>06/28/2017 04:40</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>364320</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.380	U	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	0.810	U	2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	0.810	U	1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	0.900	U	1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	85		73-120
2037-26-5	Toluene-d8 (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5084.D
 Lims ID: 480-120094-A-2
 Client ID: MW-7D-062317
 Sample Type: Client
 Inject. Date: 28-Jun-2017 04:40:30 ALS Bottle#: 18 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-2
 Misc. Info.: 480-0063636-027
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 14:24:00 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: schreiberj

Date: 28-Jun-2017 14:24:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	135342	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	87	287589	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.852	0.000	96	266879	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	145550	21.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	93565	23.6	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	581527	22.4	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	87	196604	21.2	
13 Vinyl chloride	62		5.135				ND	
15 Chloroethane	64		5.871				ND	
22 1,1-Dichloroethene	96		6.879				ND	
23 Acetone	43		6.914				ND	
34 trans-1,2-Dichloroethene	96		7.626				ND	
39 1,1-Dichloroethane	63		8.017				ND	
45 cis-1,2-Dichloroethene	96		8.515				ND	
51 1,1,1-Trichloroethane	97		8.942				ND	
57 Benzene	78		9.239				ND	
58 1,2-Dichloroethane	62		9.250				ND	
62 Trichloroethene	95		9.713				ND	
81 Tetrachloroethene	166		11.160				ND	
88 Ethylbenzene	91		11.871				ND	
90 m-Xylene & p-Xylene	106	11.942	11.942	0.000	94	6121	0.2714	
91 o-Xylene	106	12.298	12.298	0.000	92	3496	0.1562	
S 124 Xylenes, Total	1				0		0.4275	
S 125 1,2-Dichloroethene, Total	1		30.000				ND	

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5084.D

Injection Date: 28-Jun-2017 04:40:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-2

Lab Sample ID: 480-120094-2

Worklist Smp#: 27

Client ID: MW-7D-062317

Purge Vol: 5.000 mL

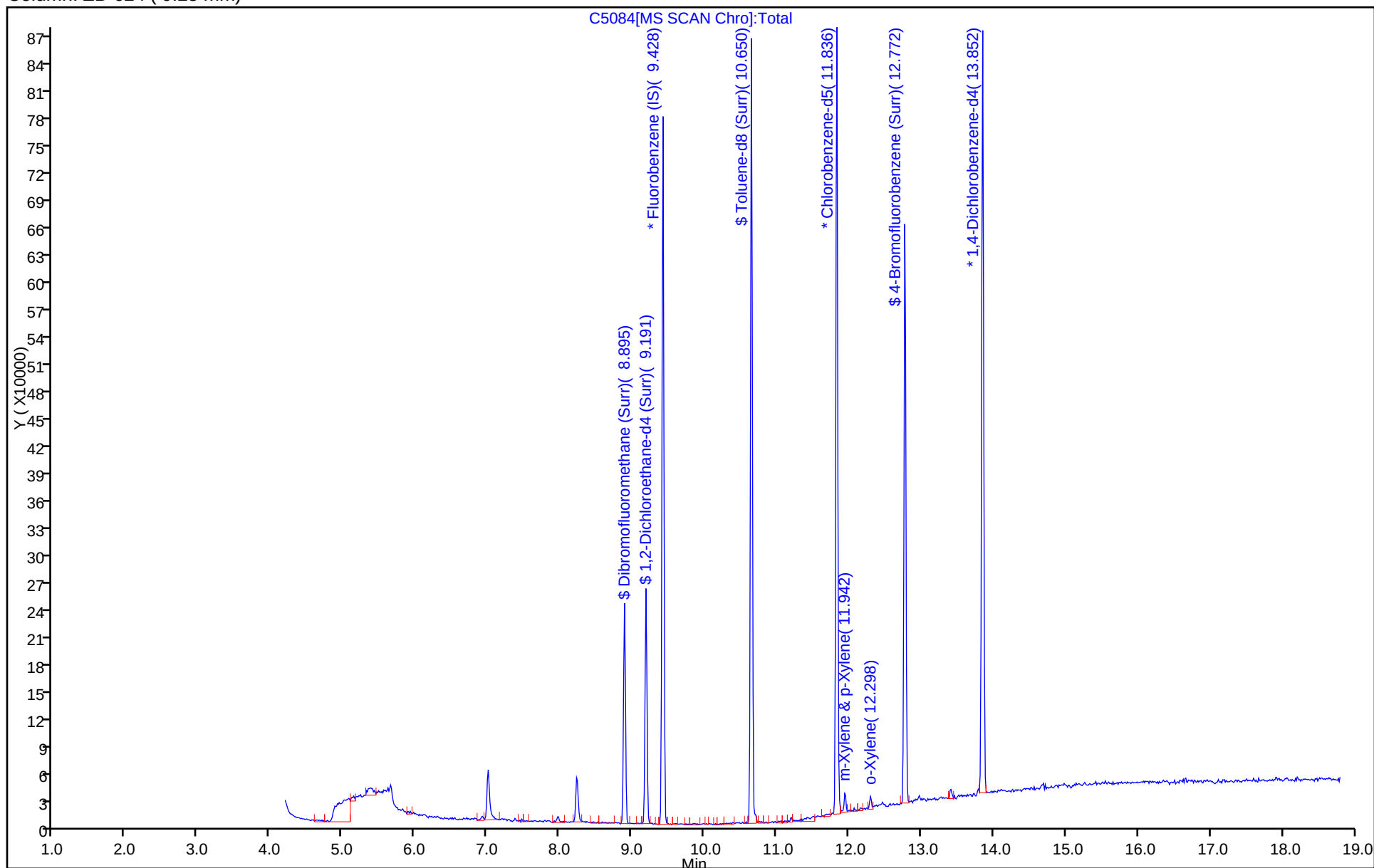
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: X-A-1-062317 Lab Sample ID: 480-120094-3
 Matrix: Water Lab File ID: C5085.D
 Analysis Method: 8260C Date Collected: 06/23/2017 13:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 05:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 364320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.380	U	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	2.61		2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.518	J	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	2.61		1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	5.41	F1	1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	87		73-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	88		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5085.D
 Lims ID: 480-120094-A-3
 Client ID: X-A-1-062317
 Sample Type: Client
 Inject. Date: 28-Jun-2017 05:05:30 ALS Bottle#: 19 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-3
 Misc. Info.: 480-0063636-028
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 14:24:00 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: schreiberj

Date: 28-Jun-2017 14:24:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	132496	25.0	
* 2 Chlorobenzene-d5	82	11.835	11.836	-0.001	86	281433	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.852	-0.001	96	270380	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	145900	22.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	92242	23.8	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	578374	22.8	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	87	198096	21.8	
13 Vinyl chloride	62	5.147	5.135	0.012	97	42761	5.41	
15 Chloroethane	64		5.871				ND	
22 1,1-Dichloroethene	96		6.879				ND	
23 Acetone	43	6.926	6.914	0.012	99	7440	2.52	
34 trans-1,2-Dichloroethene	96	7.638	7.626	0.012	93	3641	0.2936	
39 1,1-Dichloroethane	63		8.017				ND	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	79	35671	2.61	
51 1,1,1-Trichloroethane	97		8.942				ND	
57 Benzene	78	9.238	9.239	0.000	96	23880	0.5176	
58 1,2-Dichloroethane	62		9.250				ND	
62 Trichloroethene	95		9.713				ND	
81 Tetrachloroethene	166		11.160				ND	
88 Ethylbenzene	91		11.871				ND	
90 m-Xylene & p-Xylene	106		11.942				ND	
91 o-Xylene	106		12.298				ND	
S 124 Xylenes, Total	1		30.000				ND	
S 125 1,2-Dichloroethene, Total	1				0		2.90	

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5085.D

Injection Date: 28-Jun-2017 05:05:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-3

Lab Sample ID: 480-120094-3

Worklist Smp#: 28

Client ID: X-A-1-062317

Purge Vol: 5.000 mL

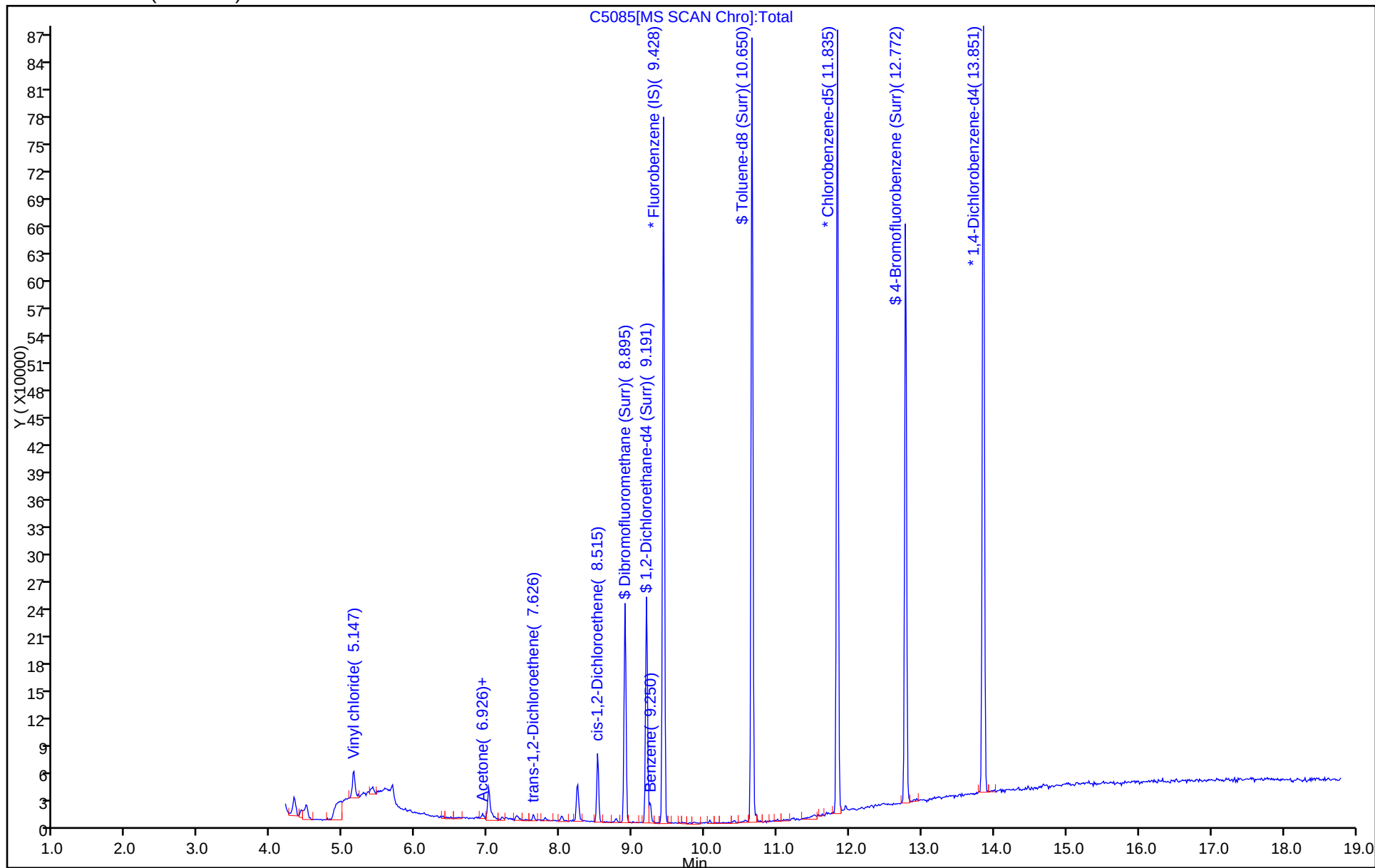
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5085.D

Injection Date: 28-Jun-2017 05:05:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-3

Lab Sample ID: 480-120094-3

Client ID: X-A-1-062317

Operator ID: RR

ALS Bottle#: 19

Worklist Smp#: 28

Purge Vol: 5.000 mL

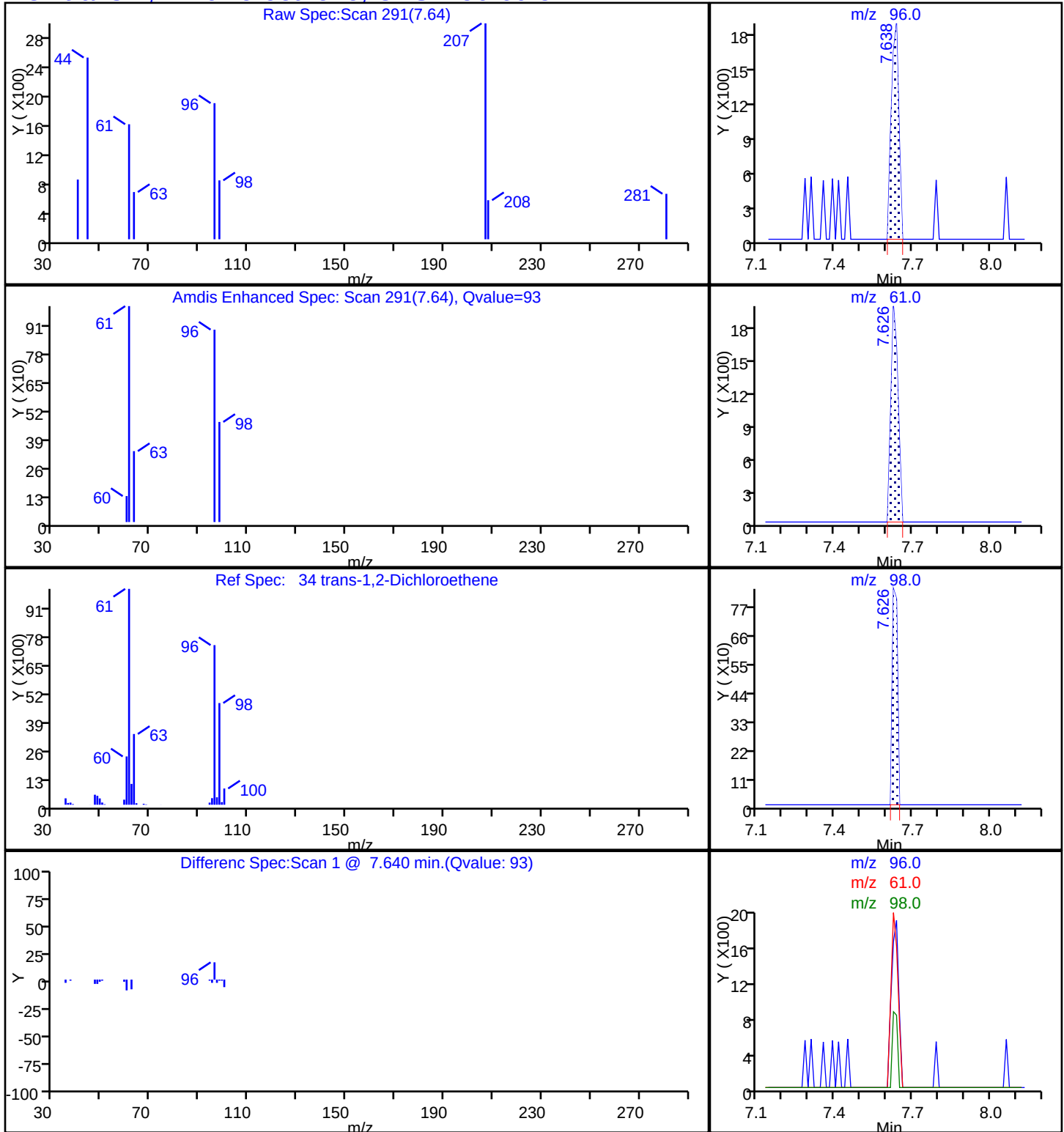
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5085.D

Injection Date: 28-Jun-2017 05:05:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-3

Lab Sample ID: 480-120094-3

Client ID: X-A-1-062317

Operator ID: RR

ALS Bottle#: 19

Worklist Smp#: 28

Purge Vol: 5.000 mL

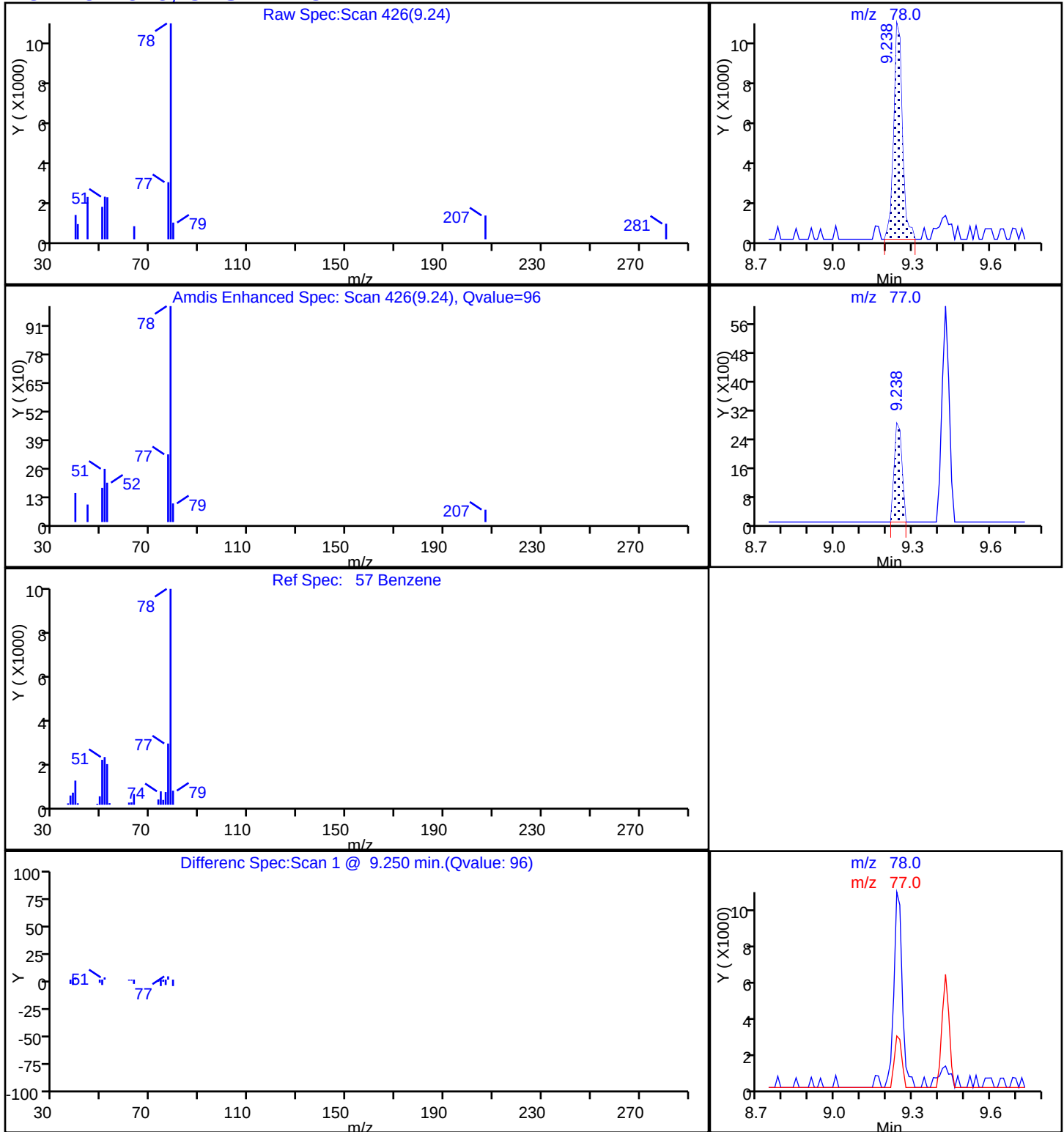
Dil. Factor: 1.0000

Method: C-8260

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\HP5973C\20170627-63636.b\C5085.D

Injection Date: 28-Jun-2017 05:05:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-3

Lab Sample ID: 480-120094-3

Client ID: X-A-1-062317

Operator ID: RR

ALS Bottle#: 19

Worklist Smp#: 28

Purge Vol: 5.000 mL

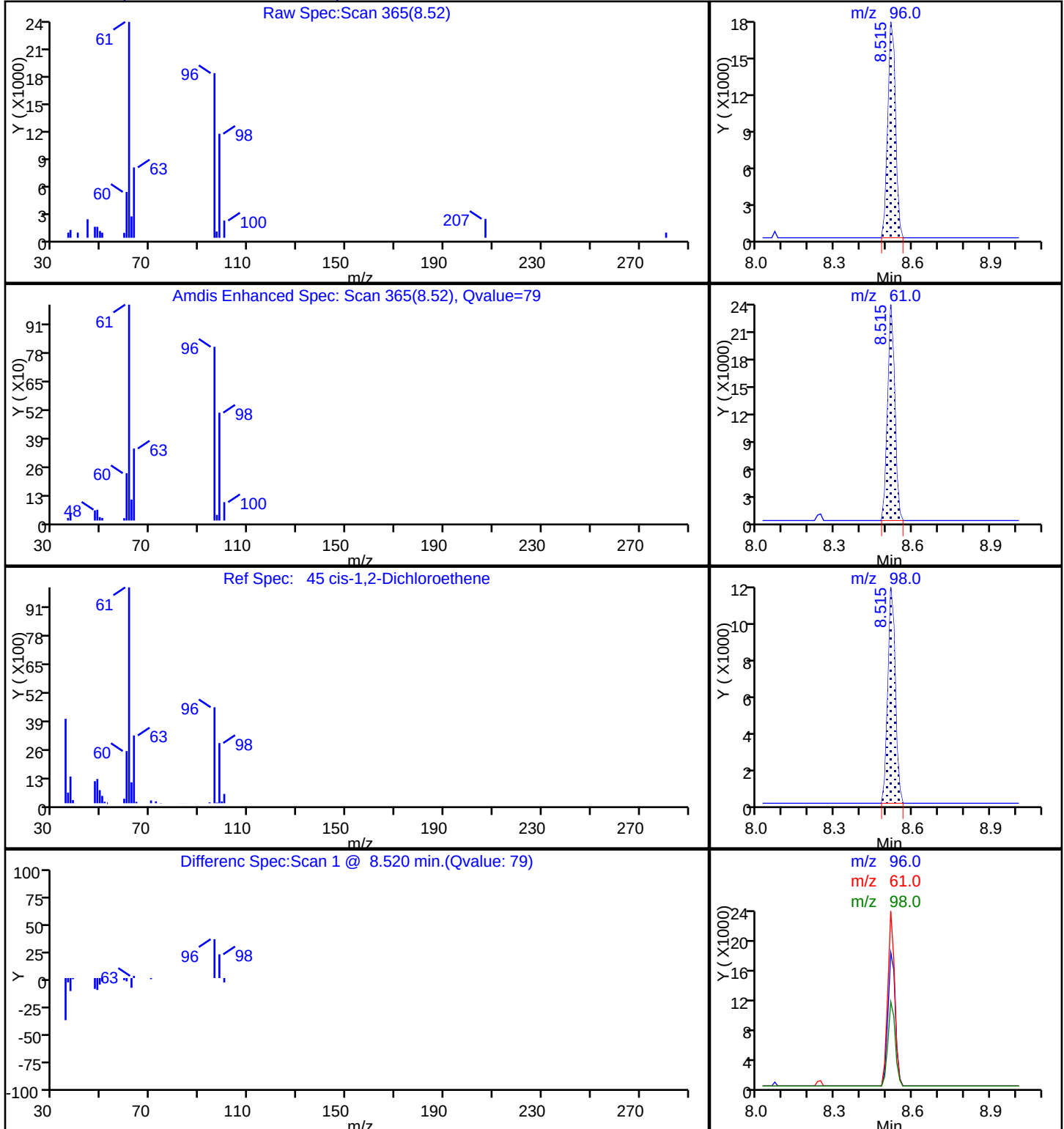
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5085.D

Injection Date: 28-Jun-2017 05:05:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-3

Lab Sample ID: 480-120094-3

Client ID: X-A-1-062317

Operator ID: RR

ALS Bottle#: 19

Worklist Smp#: 28

Purge Vol: 5.000 mL

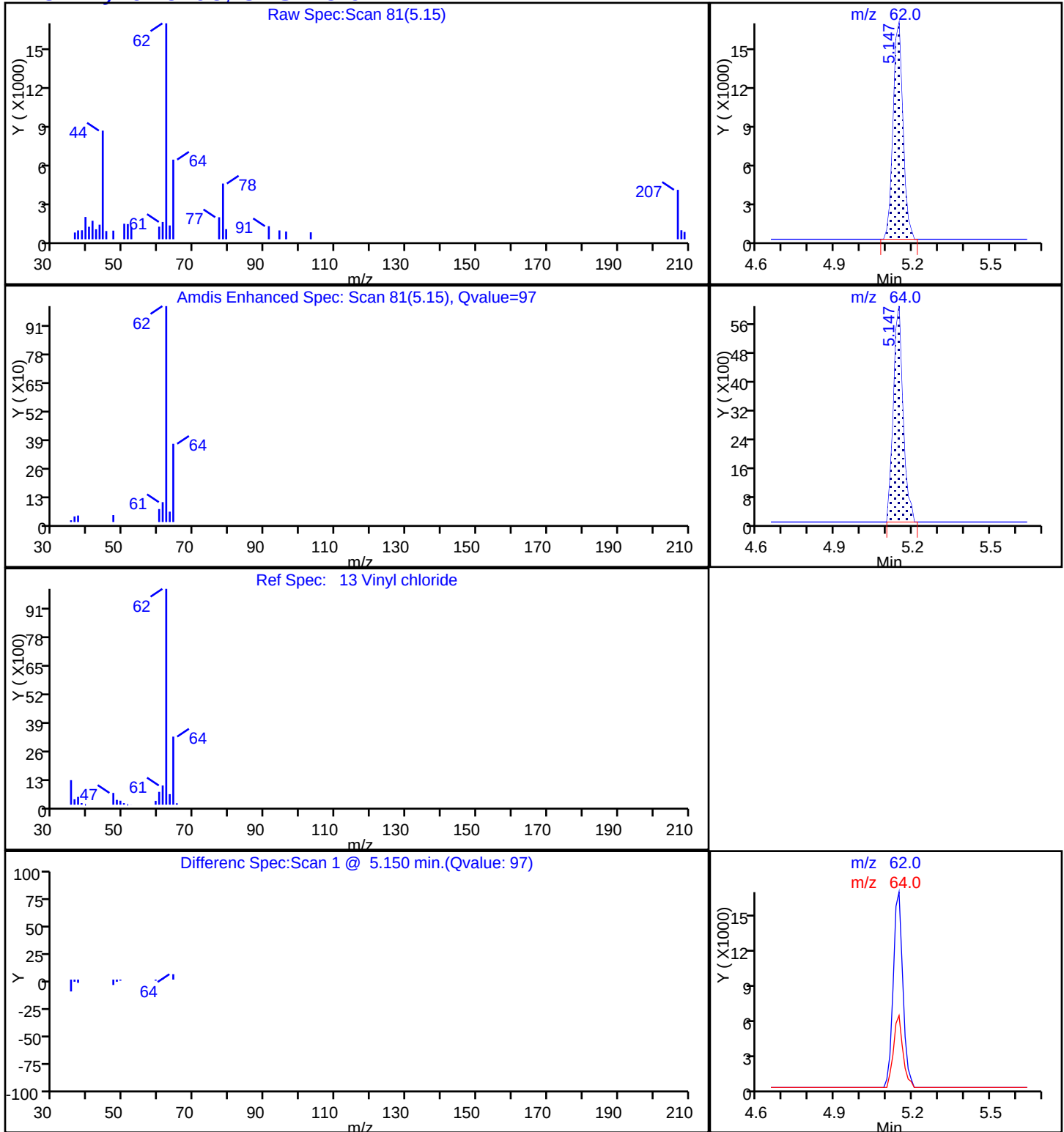
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: X-A-3-062317 Lab Sample ID: 480-120094-4
 Matrix: Water Lab File ID: C5086.D
 Analysis Method: 8260C Date Collected: 06/23/2017 13:45
 Sample wt/vol: 5(mL) Date Analyzed: 06/28/2017 05:30
 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.: 364320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	2.16		1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	2.48		2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	2.48		1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	5.23		1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	87		73-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	87		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5086.D
 Lims ID: 480-120094-A-4
 Client ID: X-A-3-062317
 Sample Type: Client
 Inject. Date: 28-Jun-2017 05:30:30 ALS Bottle#: 20 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-4
 Misc. Info.: 480-0063636-029
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 14:24:00 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: schreiberj

Date: 28-Jun-2017 14:24:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	131872	25.0	
* 2 Chlorobenzene-d5	82	11.835	11.836	-0.001	86	277770	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.852	-0.001	96	263723	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	142391	21.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	90422	23.4	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	572669	22.8	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	94	195442	21.8	
13 Vinyl chloride	62	5.135	5.135	0.000	97	41152	5.23	
15 Chloroethane	64		5.871				ND	
22 1,1-Dichloroethene	96		6.879				ND	
23 Acetone	43	6.926	6.914	0.012	98	6678	2.27	
34 trans-1,2-Dichloroethene	96		7.626				ND	
39 1,1-Dichloroethane	63	8.017	8.017	0.000	96	43488	2.16	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	80	33737	2.48	
51 1,1,1-Trichloroethane	97		8.942				ND	
57 Benzene	78	9.238	9.239	0.000	85	5888	0.1282	
58 1,2-Dichloroethane	62		9.250				ND	
62 Trichloroethene	95		9.713				ND	
81 Tetrachloroethene	166		11.160				ND	
88 Ethylbenzene	91		11.871				ND	
90 m-Xylene & p-Xylene	106		11.942				ND	
91 o-Xylene	106		12.298				ND	
S 124 Xylenes, Total	1		30.000				ND	
S 125 1,2-Dichloroethene, Total	1				0		2.48	

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5086.D

Injection Date: 28-Jun-2017 05:30:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-4

Lab Sample ID: 480-120094-4

Worklist Smp#: 29

Client ID: X-A-3-062317

Purge Vol: 5.000 mL

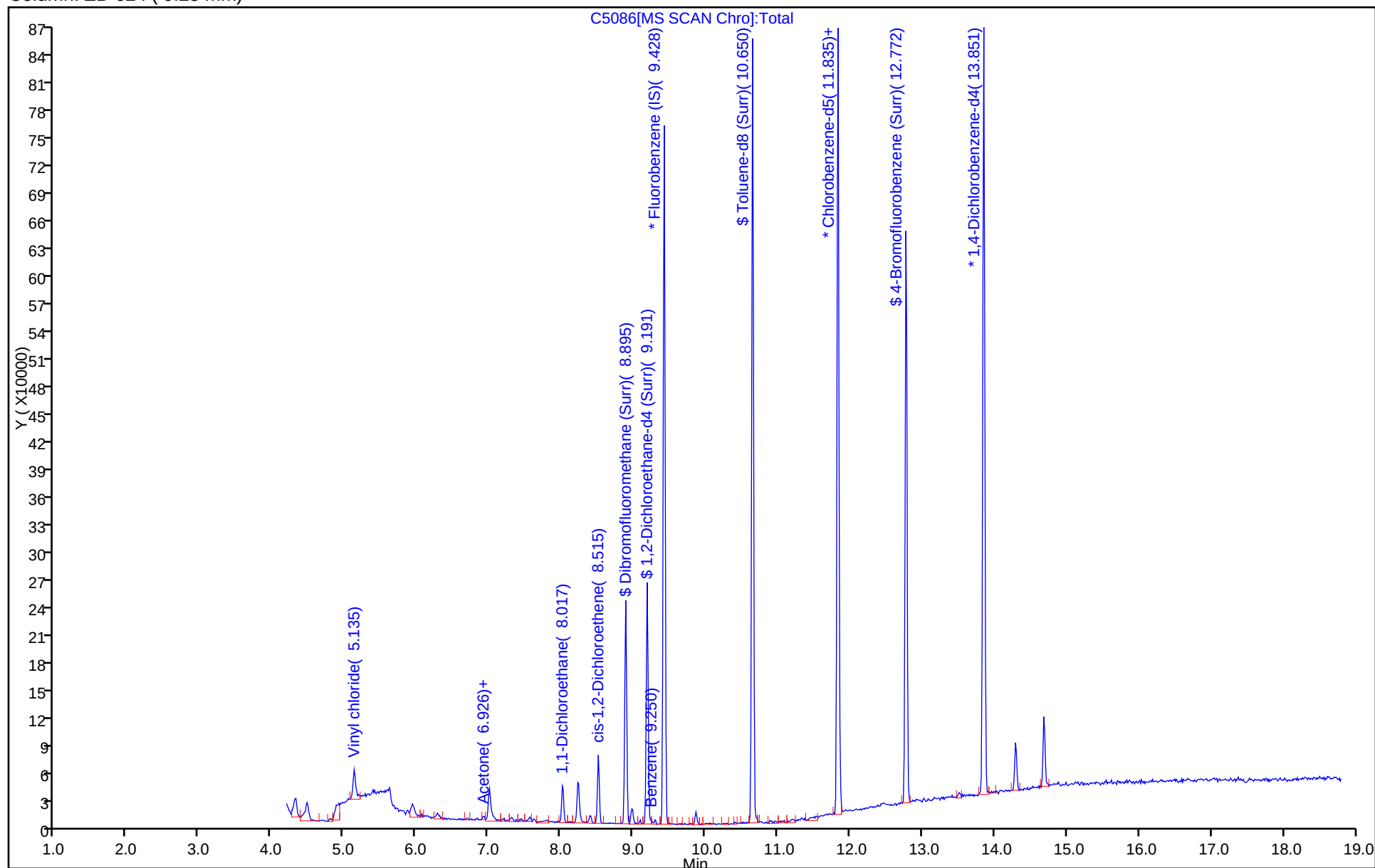
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5086.D

Injection Date: 28-Jun-2017 05:30:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-4

Lab Sample ID: 480-120094-4

Client ID: X-A-3-062317

Operator ID: RR

ALS Bottle#: 20

Worklist Smp#: 29

Purge Vol: 5.000 mL

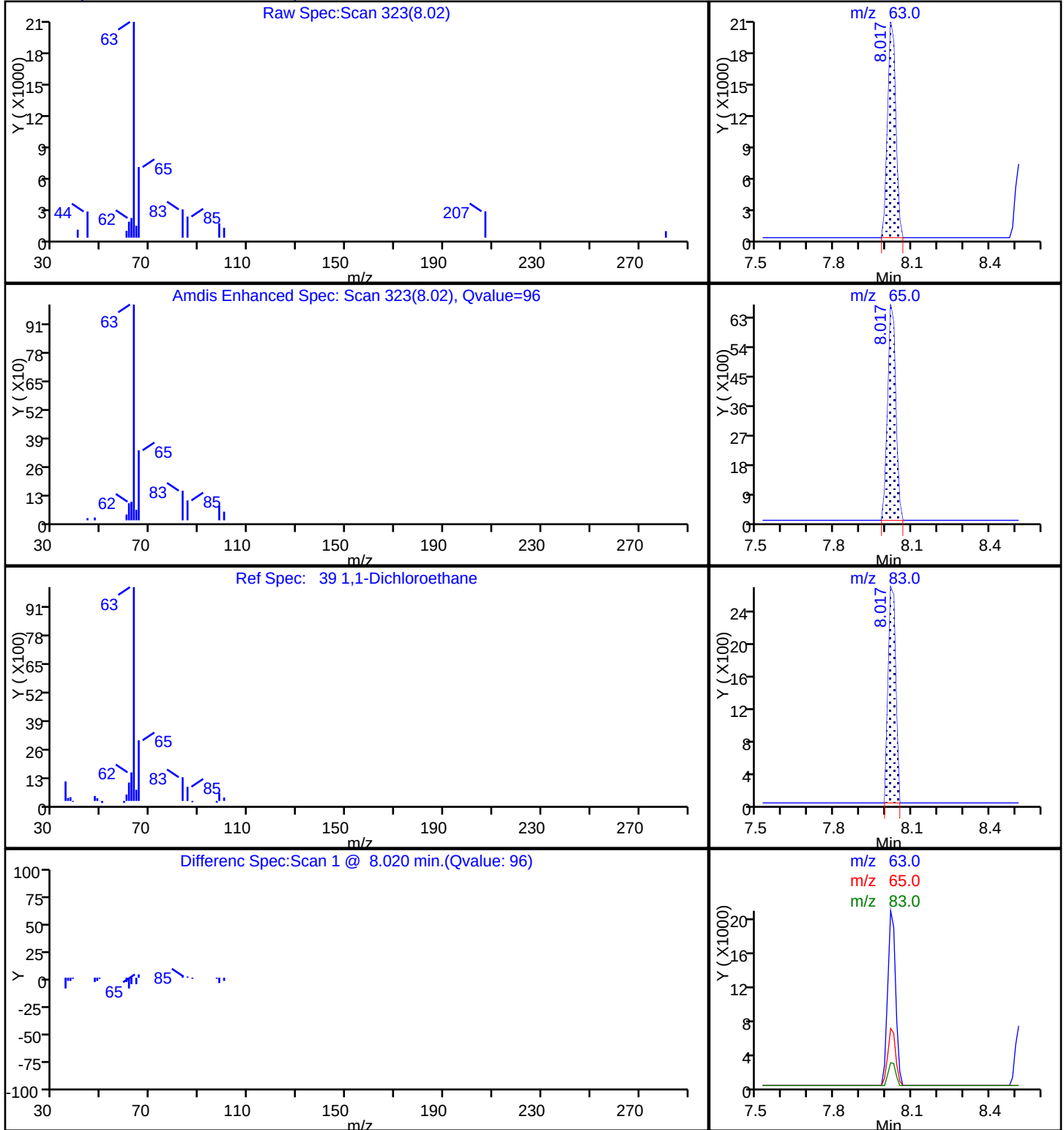
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5086.D

Injection Date: 28-Jun-2017 05:30:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-4

Lab Sample ID: 480-120094-4

Client ID: X-A-3-062317

Operator ID: RR

ALS Bottle#: 20

Worklist Smp#: 29

Purge Vol: 5.000 mL

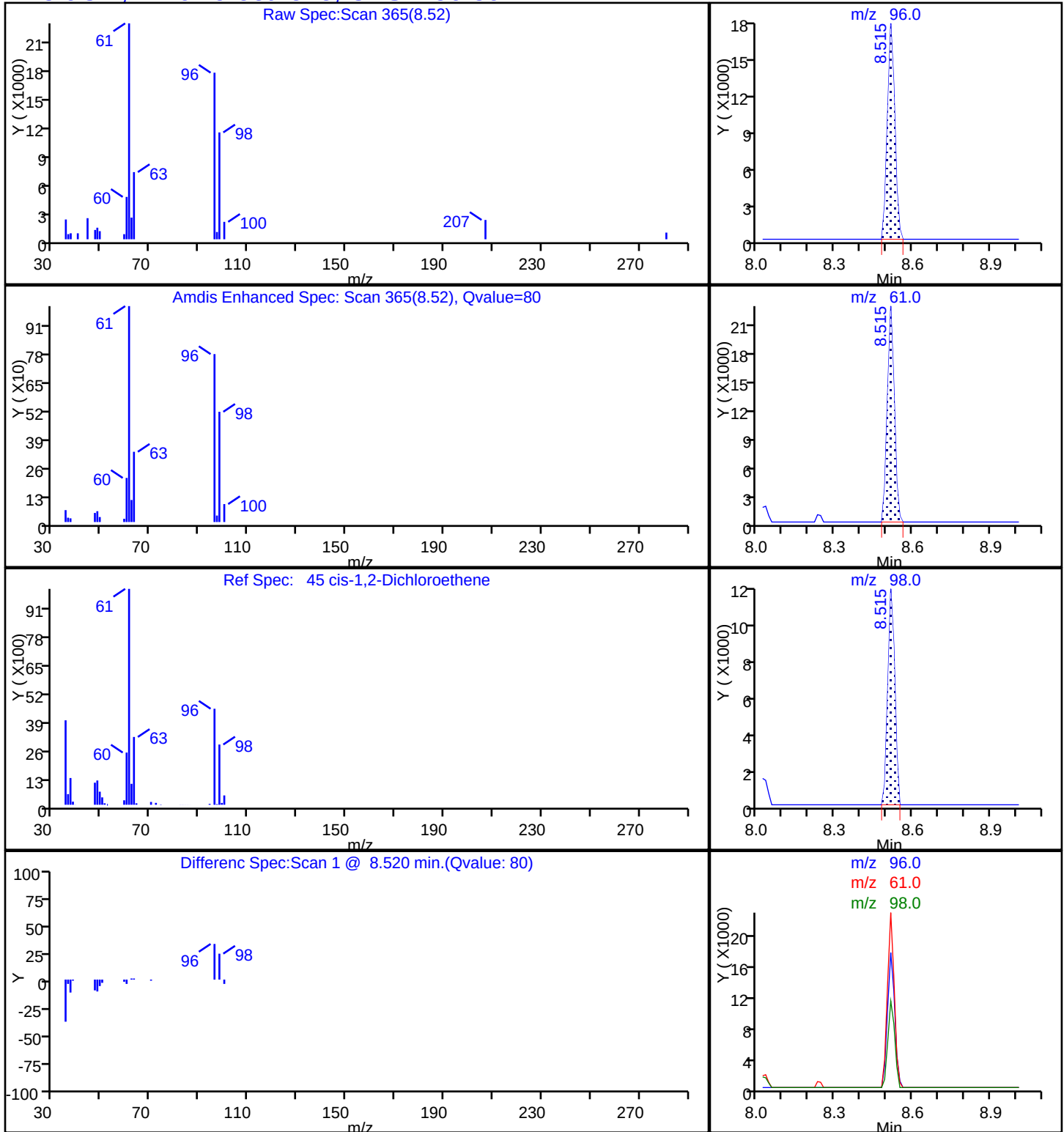
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5086.D

Injection Date: 28-Jun-2017 05:30:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-4

Lab Sample ID: 480-120094-4

Client ID: X-A-3-062317

Operator ID: RR

ALS Bottle#: 20

Worklist Smp#: 29

Purge Vol: 5.000 mL

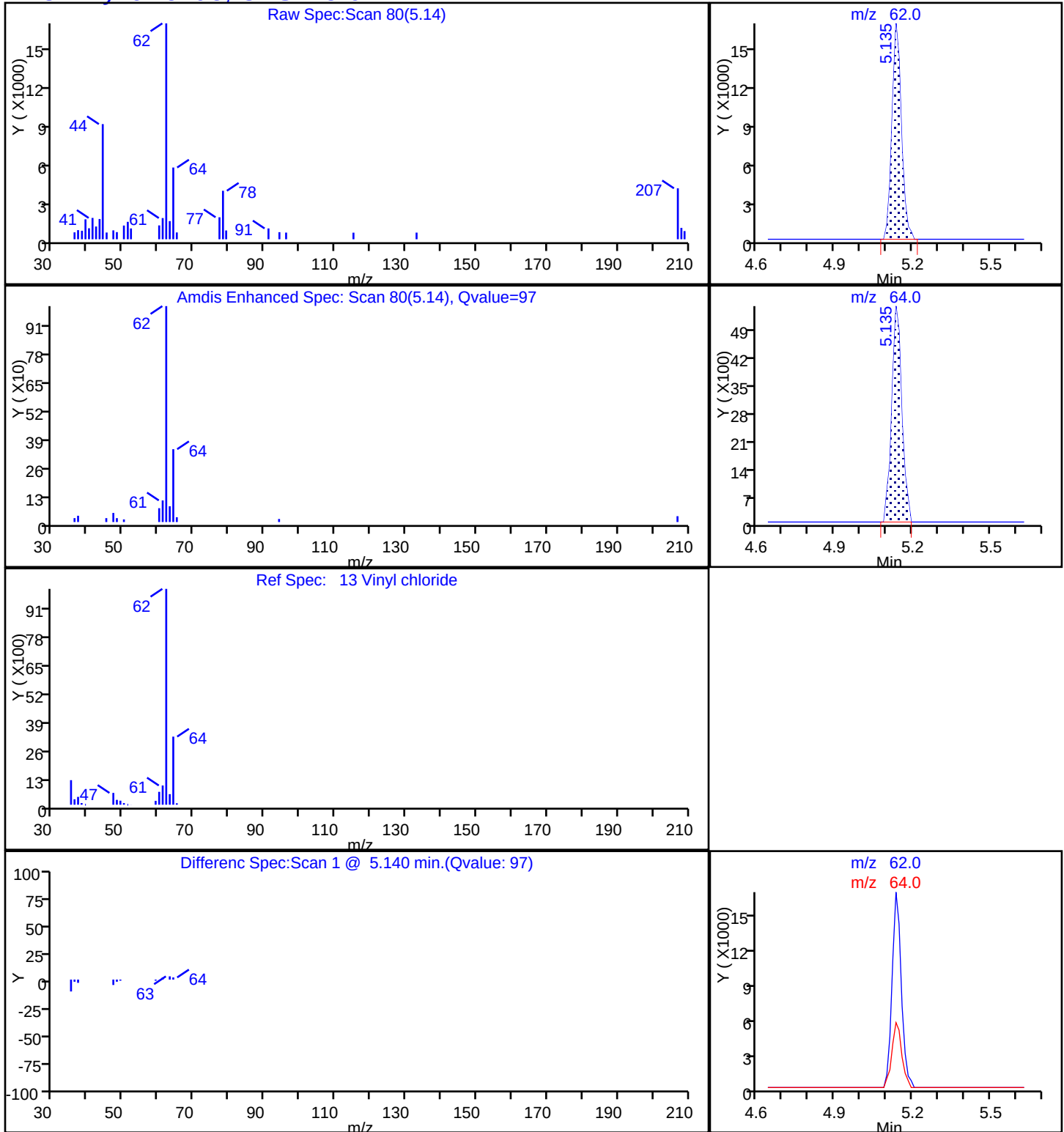
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: X-A-3-062317-DUP Lab Sample ID: 480-120094-5
 Matrix: Water Lab File ID: C5087.D
 Analysis Method: 8260C Date Collected: 06/23/2017 13:50
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 05:56
 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.: 364320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	2.14		1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	2.42		2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	2.42		1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	5.08		1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	87		73-120
2037-26-5	Toluene-d8 (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	85		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5087.D
 Lims ID: 480-120094-A-5
 Client ID: X-A-3-062317-DUP
 Sample Type: Client
 Inject. Date: 28-Jun-2017 05:56:30 ALS Bottle#: 21 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-5
 Misc. Info.: 480-0063636-030
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 14:24:00 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: schreiberj

Date: 28-Jun-2017 14:24:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	133492	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	86	279620	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.852	0.000	96	264108	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	142032	21.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	89533	22.9	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	566870	22.5	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	88	195192	21.6	
13 Vinyl chloride	62	5.147	5.135	0.012	98	40478	5.08	
15 Chloroethane	64		5.871				ND	
22 1,1-Dichloroethene	96		6.879				ND	
23 Acetone	43		6.914				ND	
34 trans-1,2-Dichloroethene	96		7.626				ND	
39 1,1-Dichloroethane	63	8.017	8.017	0.000	96	43503	2.14	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	78	33363	2.42	
51 1,1,1-Trichloroethane	97		8.942				ND	
57 Benzene	78		9.239				ND	
58 1,2-Dichloroethane	62		9.250				ND	
62 Trichloroethene	95		9.713				ND	
81 Tetrachloroethene	166		11.160				ND	
88 Ethylbenzene	91		11.871				ND	
90 m-Xylene & p-Xylene	106		11.942				ND	
91 o-Xylene	106		12.298				ND	
S 124 Xylenes, Total	1		30.000				ND	
S 125 1,2-Dichloroethene, Total	1				0		2.42	

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5087.D

Injection Date: 28-Jun-2017 05:56:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-5

Lab Sample ID: 480-120094-5

Worklist Smp#: 30

Client ID: X-A-3-062317-DUP

Purge Vol: 5.000 mL

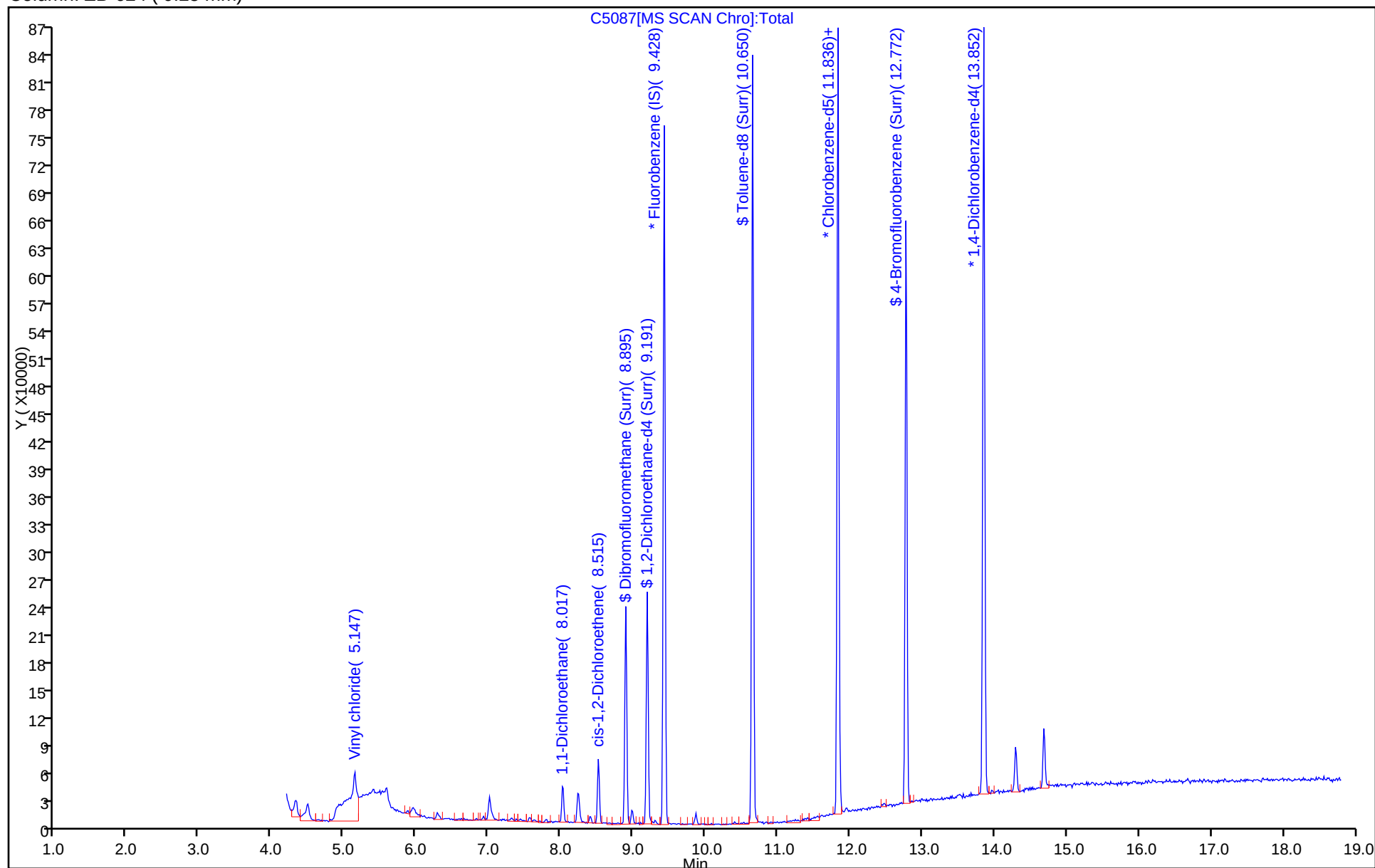
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5087.D

Injection Date: 28-Jun-2017 05:56:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-5

Lab Sample ID: 480-120094-5

Client ID: X-A-3-062317-DUP

Operator ID: RR

ALS Bottle#: 21

Worklist Smp#: 30

Purge Vol: 5.000 mL

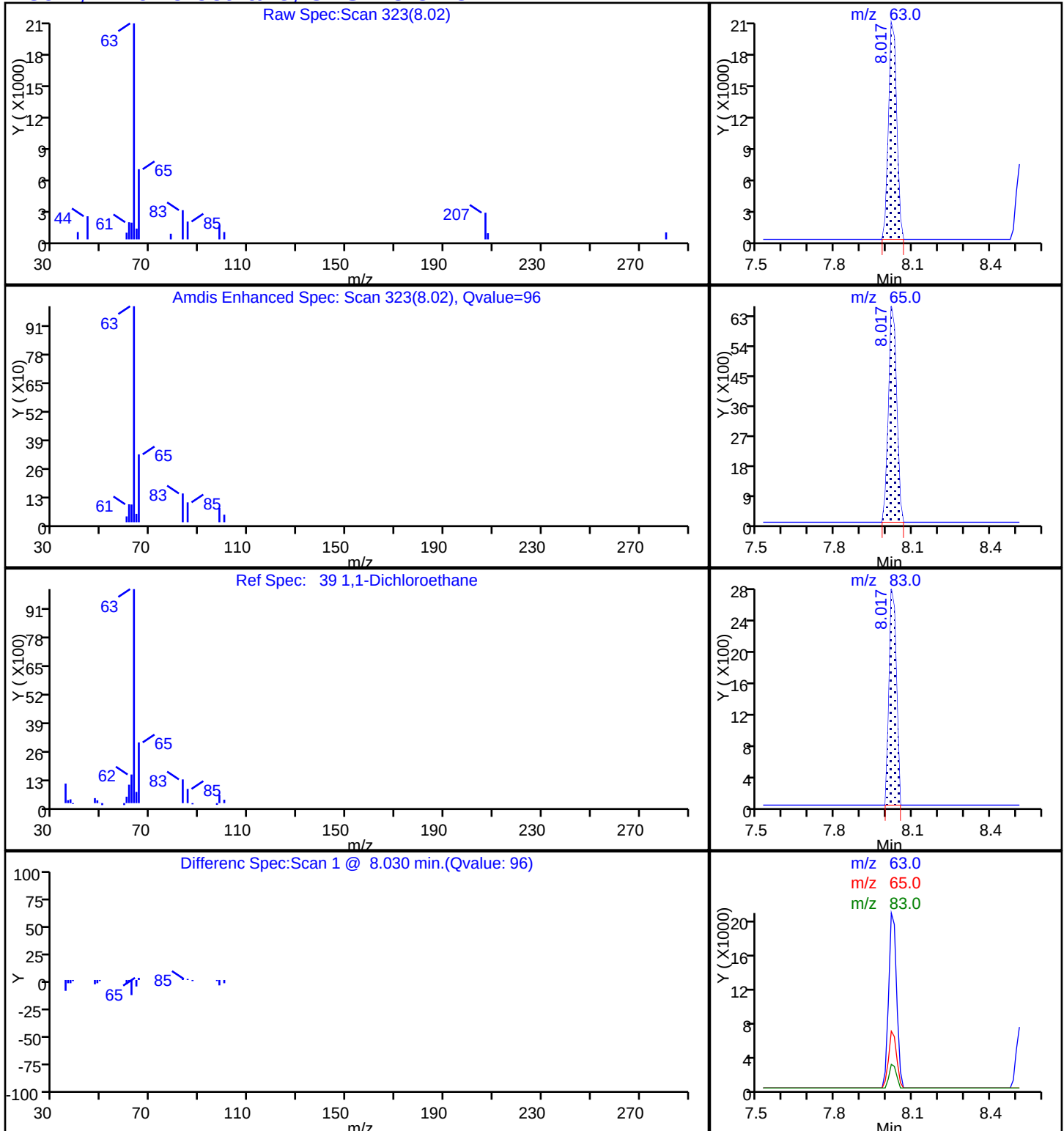
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5087.D

Injection Date: 28-Jun-2017 05:56:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-5

Lab Sample ID: 480-120094-5

Client ID: X-A-3-062317-DUP

Operator ID: RR

ALS Bottle#: 21

Worklist Smp#: 30

Purge Vol: 5.000 mL

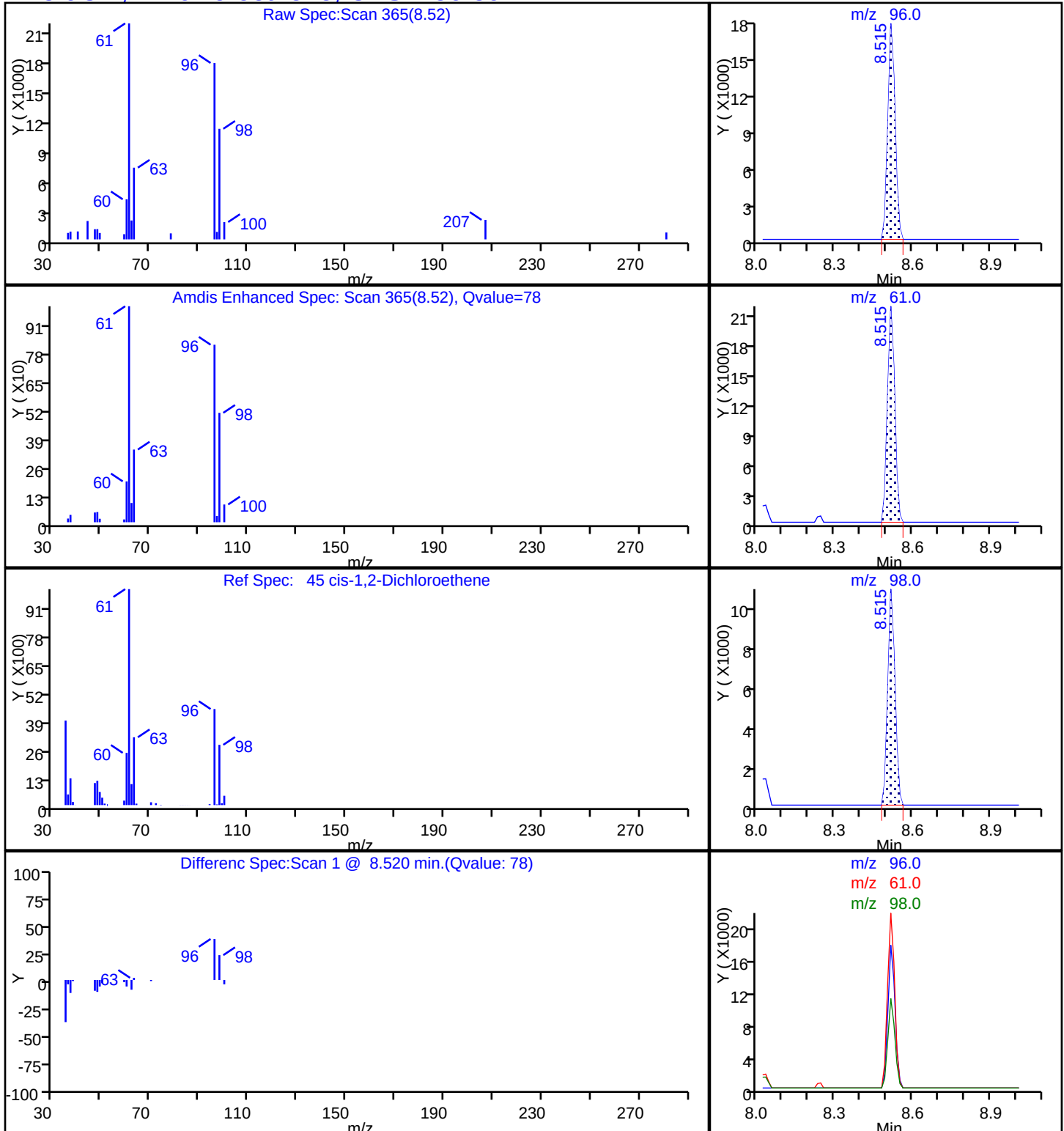
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5087.D

Injection Date: 28-Jun-2017 05:56:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-5

Lab Sample ID: 480-120094-5

Client ID: X-A-3-062317-DUP

Operator ID: RR

ALS Bottle#: 21

Worklist Smp#: 30

Purge Vol: 5.000 mL

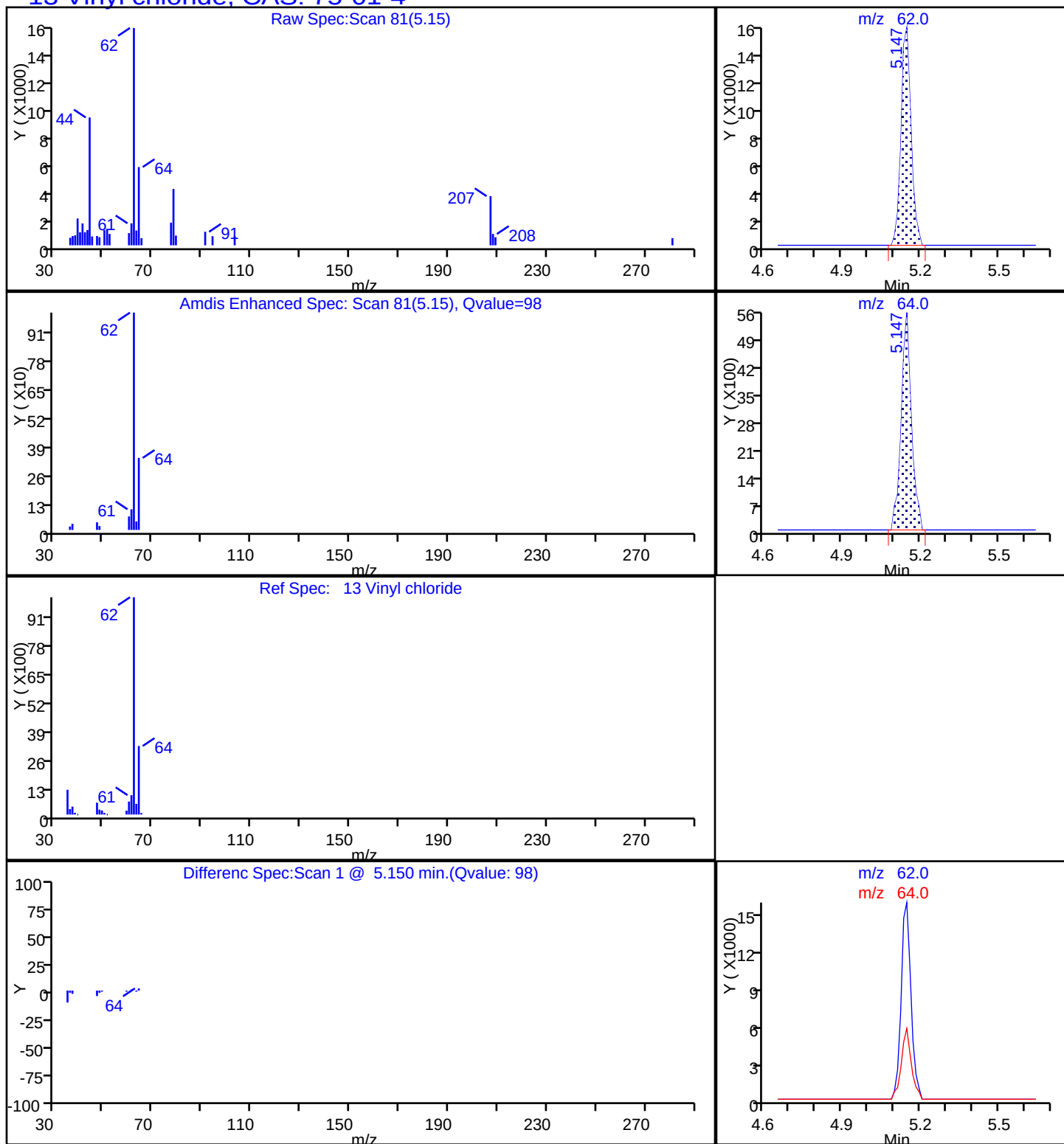
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: X-C-3-062317 Lab Sample ID: 480-120094-6
 Matrix: Water Lab File ID: C5088.D
 Analysis Method: 8260C Date Collected: 06/23/2017 13:30
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 06:21
 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.: 364320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.801	J	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	2.34		2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	2.34		1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	9.15		1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	86		73-120
2037-26-5	Toluene-d8 (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	88		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5088.D
 Lims ID: 480-120094-A-6
 Client ID: X-C-3-062317
 Sample Type: Client
 Inject. Date: 28-Jun-2017 06:21:30 ALS Bottle#: 22 Worklist Smp#: 31
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-6
 Misc. Info.: 480-0063636-031
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 14:24:00 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: schreiberj

Date: 28-Jun-2017 14:24:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	130724	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	86	282183	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.852	0.000	96	266430	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	143081	21.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	89883	23.5	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	94	571712	22.4	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	88	196841	21.6	
13 Vinyl chloride	62	5.147	5.135	0.012	98	71429	9.15	
15 Chloroethane	64		5.871				ND	
22 1,1-Dichloroethene	96		6.879				ND	
23 Acetone	43	6.926	6.914	0.012	98	8297	2.85	
34 trans-1,2-Dichloroethene	96	7.638	7.626	0.012	92	4315	0.3527	
39 1,1-Dichloroethane	63	8.029	8.017	0.012	95	15958	0.8012	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	78	31598	2.34	
51 1,1,1-Trichloroethane	97		8.942				ND	
57 Benzene	78	9.239	9.239	0.001	92	10774	0.2367	
58 1,2-Dichloroethane	62		9.250				ND	
62 Trichloroethene	95		9.713				ND	
81 Tetrachloroethene	166		11.160				ND	
88 Ethylbenzene	91		11.871				ND	
90 m-Xylene & p-Xylene	106		11.942				ND	
91 o-Xylene	106		12.298				ND	
S 124 Xylenes, Total	1		30.000				ND	
S 125 1,2-Dichloroethene, Total	1				0		2.69	

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5088.D

Injection Date: 28-Jun-2017 06:21:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-6

Lab Sample ID: 480-120094-6

Worklist Smp#: 31

Client ID: X-C-3-062317

Purge Vol: 5.000 mL

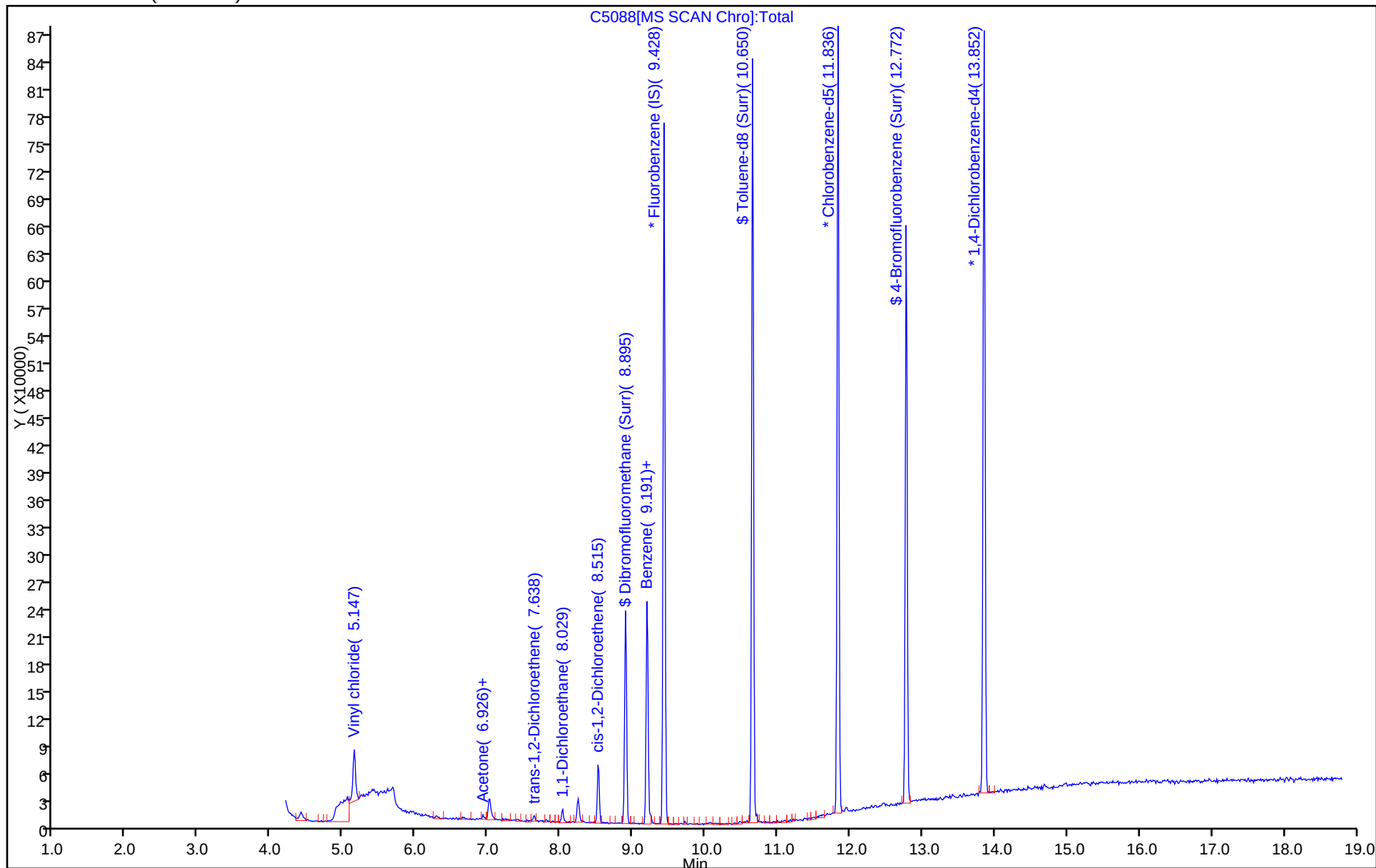
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5088.D

Injection Date: 28-Jun-2017 06:21:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-6

Lab Sample ID: 480-120094-6

Client ID: X-C-3-062317

Operator ID: RR

ALS Bottle#: 22

Worklist Smp#: 31

Purge Vol: 5.000 mL

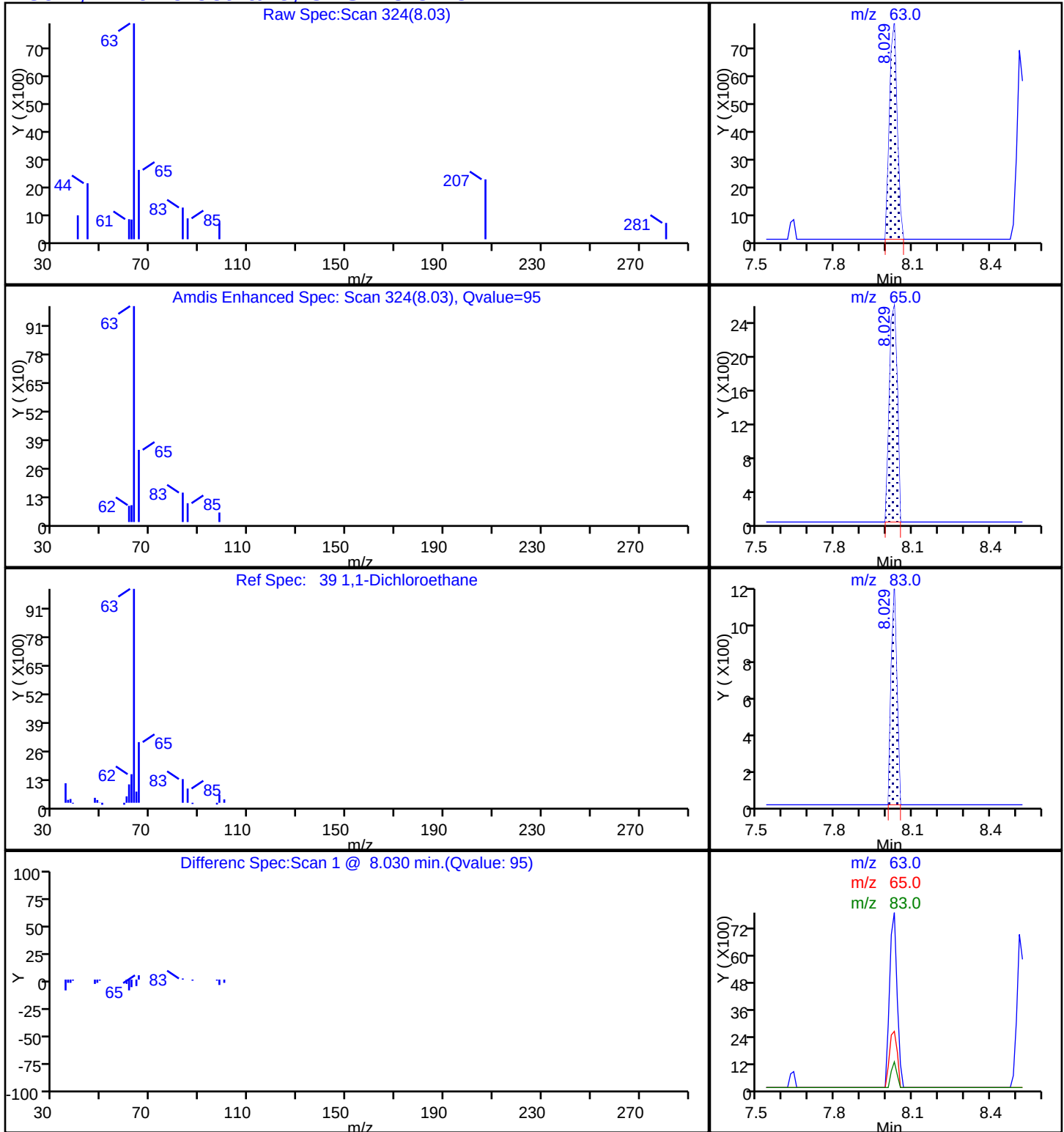
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5088.D

Injection Date: 28-Jun-2017 06:21:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-6

Lab Sample ID: 480-120094-6

Client ID: X-C-3-062317

Operator ID: RR

ALS Bottle#: 22

Worklist Smp#: 31

Purge Vol: 5.000 mL

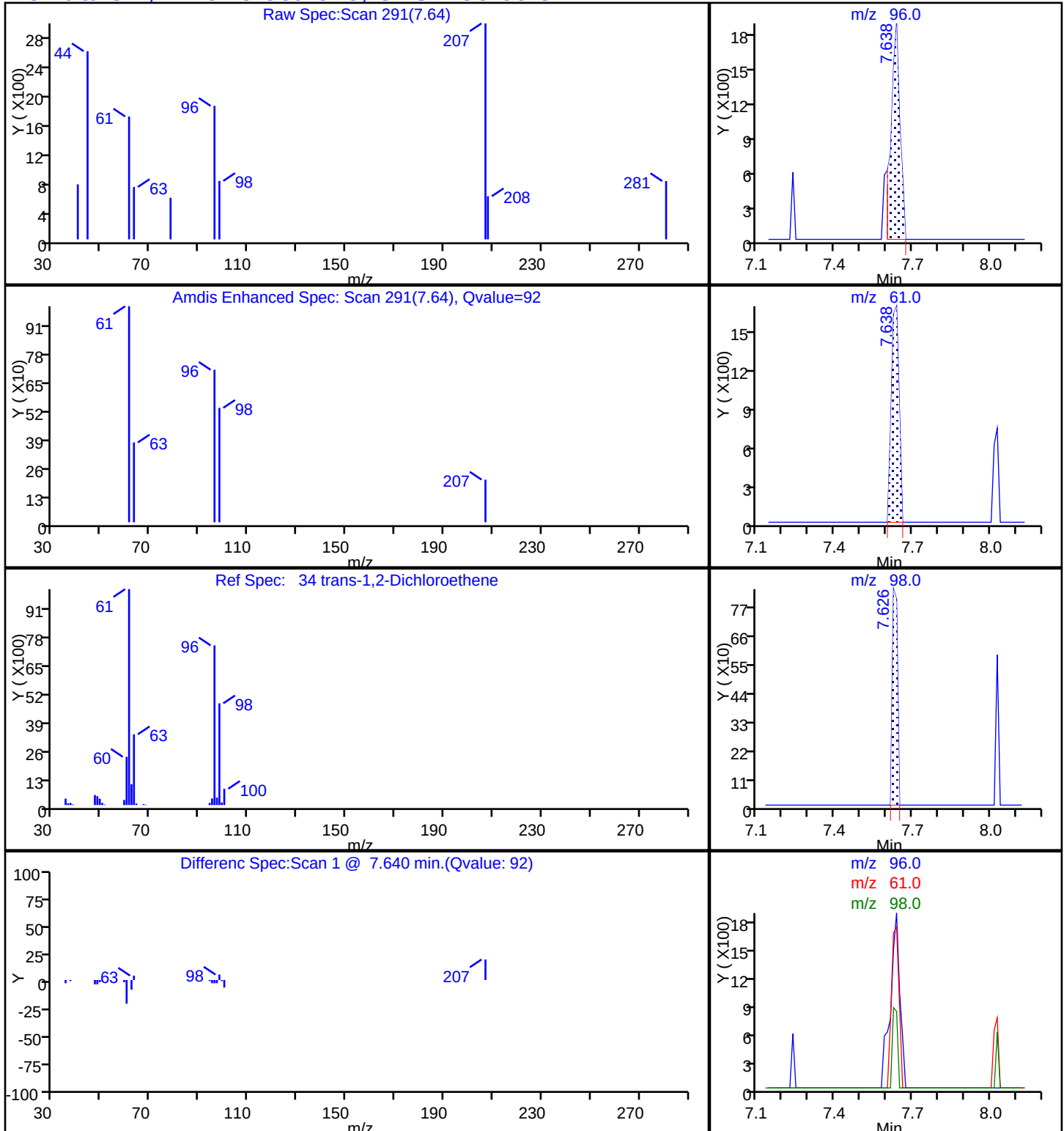
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5088.D

Injection Date: 28-Jun-2017 06:21:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-6

Lab Sample ID: 480-120094-6

Client ID: X-C-3-062317

Operator ID: RR

ALS Bottle#: 22

Worklist Smp#: 31

Purge Vol: 5.000 mL

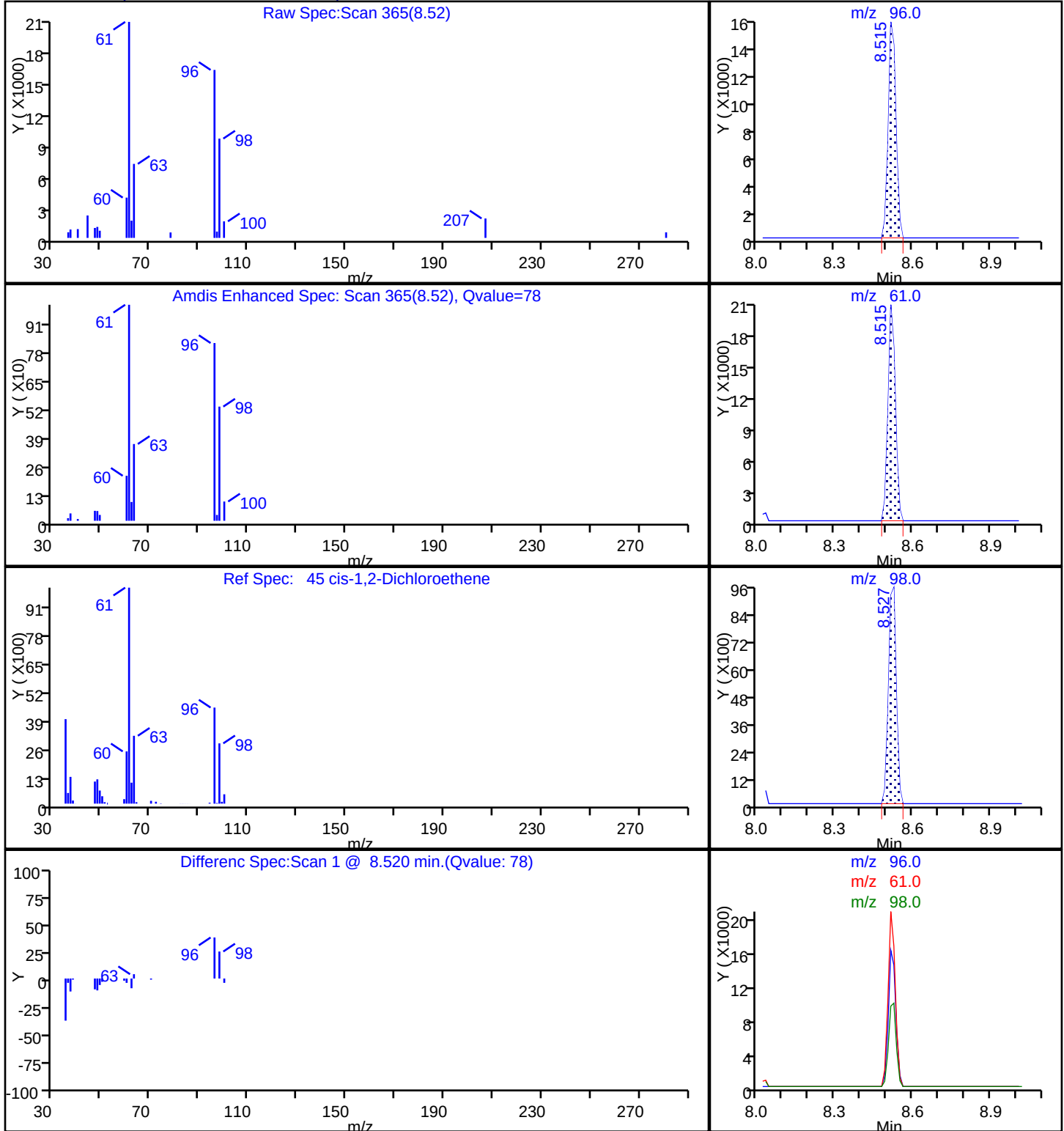
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

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

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5088.D

Injection Date: 28-Jun-2017 06:21:30

Instrument ID: HP5973C

Lims ID: 480-120094-A-6

Lab Sample ID: 480-120094-6

Client ID: X-C-3-062317

Operator ID: RR

ALS Bottle#: 22

Worklist Smp#: 31

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

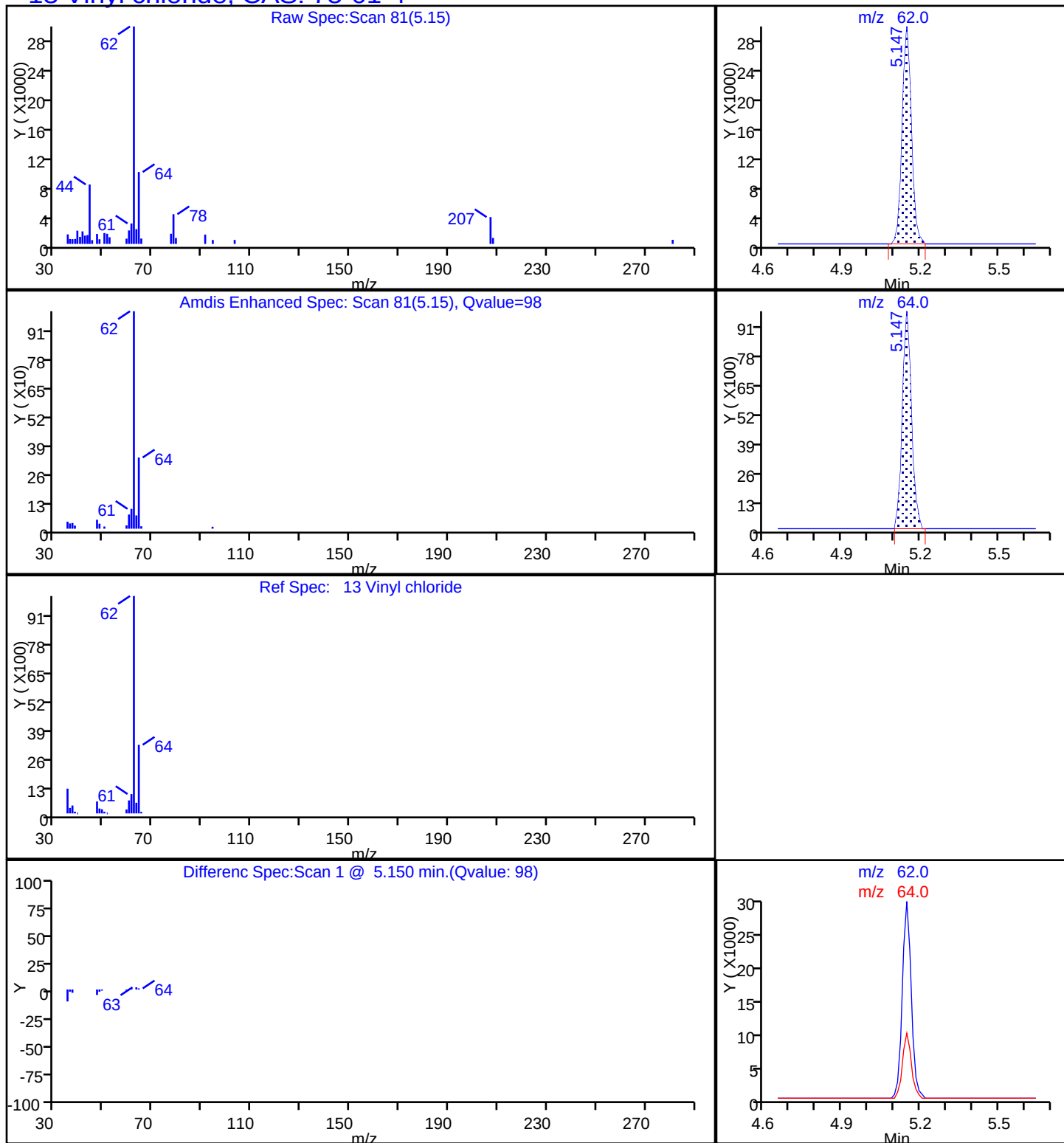
Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

13 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: RW-02-062317 Lab Sample ID: 480-120094-7
 Matrix: Water Lab File ID: N9254.D
 Analysis Method: 8260C Date Collected: 06/23/2017 14:30
 Sample wt/vol: 5(mL) Date Analyzed: 06/30/2017 13:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 364910 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.380	U	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	6.12		2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	6.12		1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	3.14		1.00	0.460
75-01-4	Vinyl chloride	2.11		1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9254.D
 Lims ID: 480-120094-B-7
 Client ID: RW-02-062317
 Sample Type: Client
 Inject. Date: 30-Jun-2017 13:52:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-b-7
 Misc. Info.: 480-0063728-007
 Operator ID: KN/CDC Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Jun-2017 13:31:45 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK055

First Level Reviewer: HillL

Date: 30-Jun-2017 15:39:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.510	5.510	0.000	97	178441	25.0	
* 2 Chlorobenzene-d5	117	8.503	8.503	0.000	91	683845	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.887	0.001	96	323996	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.914	4.913	0.001	93	219158	28.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.224	5.224	0.000	0	332237	28.4	
\$ 6 Toluene-d8 (Surr)	98	7.018	7.024	-0.006	94	867561	26.3	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	89	281677	25.6	
14 Vinyl chloride	62	1.634	1.628	0.006	98	29653	2.11	
16 Chloroethane	64		2.042				ND	
22 1,1-Dichloroethene	96		2.766				ND	
23 Acetone	43		2.857				ND	
33 trans-1,2-Dichloroethene	96	3.520	3.502	0.018	18	1889	0.2182	
36 1,1-Dichloroethane	63	3.910	3.904	0.006	87	7492	0.3543	
43 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	88	58710	6.12	
51 1,1,1-Trichloroethane	97		4.895				ND	
55 Benzene	78		5.242				ND	
57 1,2-Dichloroethane	62		5.291				ND	
60 Trichloroethene	95	5.856	5.856	0.000	92	27778	3.14	
79 Tetrachloroethene	166		7.633				ND	
88 Ethylbenzene	91		8.630				ND	
90 m-Xylene & p-Xylene	106		8.752				ND	
91 o-Xylene	106		9.178				ND	
S 126 Xylenes, Total	1		30.000				ND	
S 124 1,2-Dichloroethene, Total	1				0		6.34	

Reagents:

N_8260_Surr_00273 Amount Added: 1.00 Units: uL Run Reagent
 N 8260 IS_00075 Amount Added: 1.00 Units: uL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9254.D

Injection Date: 30-Jun-2017 13:52:30

Instrument ID: HP5973N

Operator ID: KN/CDC

Lims ID: 480-120094-B-7

Lab Sample ID: 480-120094-7

Worklist Smp#: 7

Client ID: RW-02-062317

Purge Vol: 5.000 mL

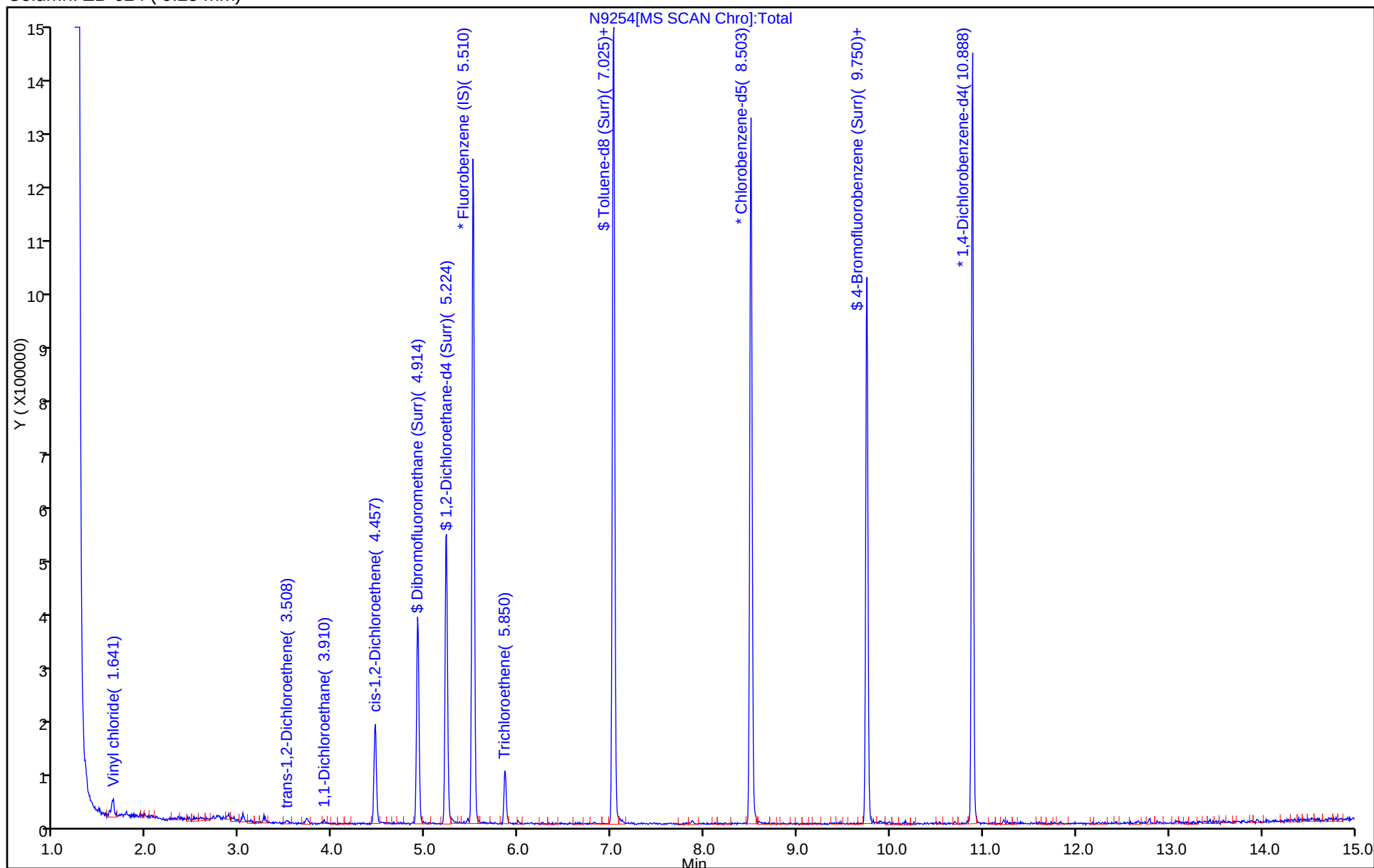
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9254.D

Injection Date: 30-Jun-2017 13:52:30

Instrument ID: HP5973N

Lims ID: 480-120094-B-7

Lab Sample ID: 480-120094-7

Client ID: RW-02-062317

Operator ID: KN/CDC

ALS Bottle#: 7

Worklist Smp#: 7

Purge Vol: 5.000 mL

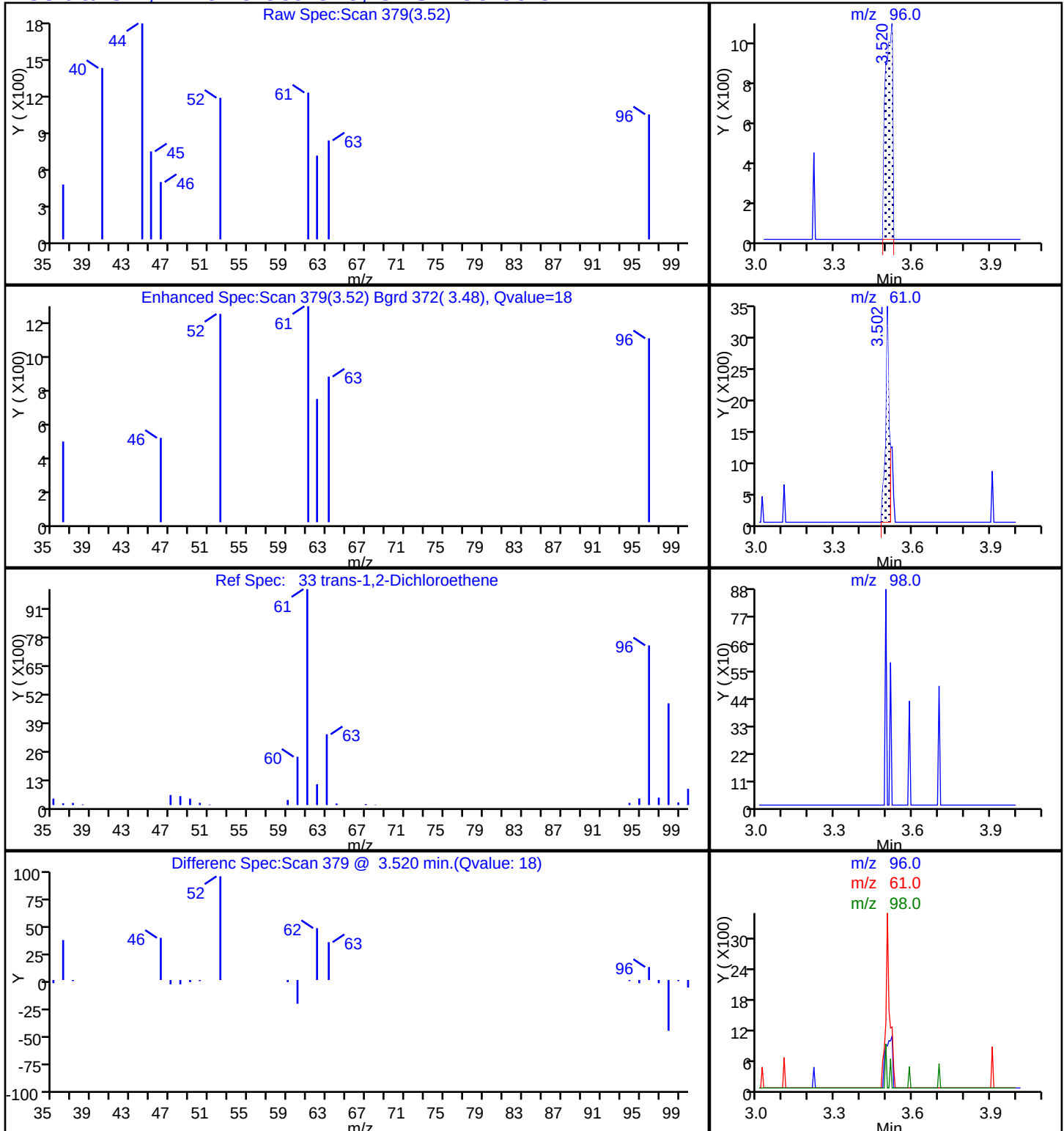
Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

33 trans-1,2-Dichloroethene, CAS: 156-60-5

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9254.D

Injection Date: 30-Jun-2017 13:52:30

Instrument ID: HP5973N

Lims ID: 480-120094-B-7

Lab Sample ID: 480-120094-7

Client ID: RW-02-062317

Operator ID: KN/CDC

ALS Bottle#: 7

Worklist Smp#: 7

Purge Vol: 5.000 mL

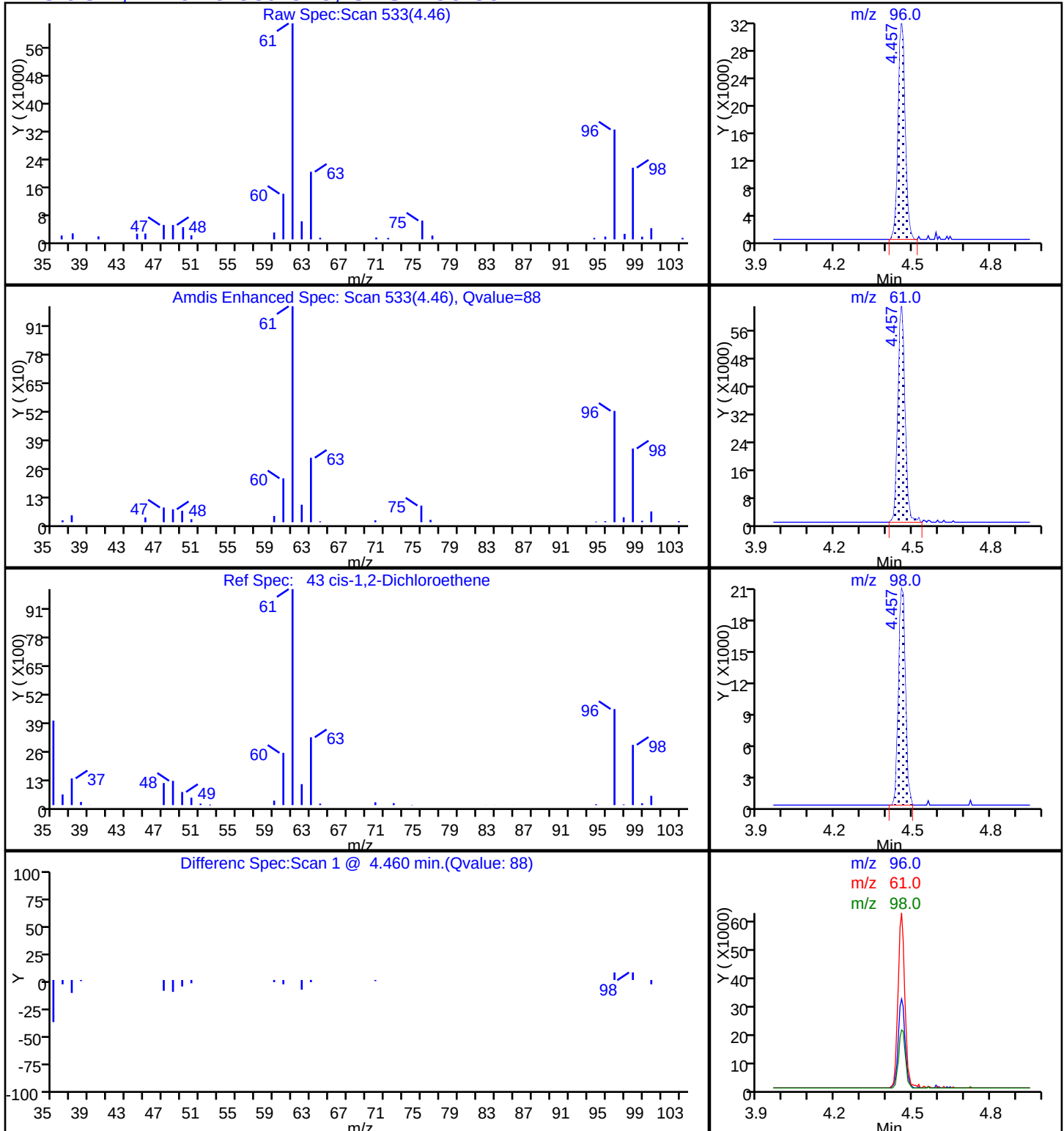
Dil. Factor: 1.0000

Method: N-8260

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\HP5973N\20170630-63728.b\N9254.D

Injection Date: 30-Jun-2017 13:52:30

Instrument ID: HP5973N

Lims ID: 480-120094-B-7

Lab Sample ID: 480-120094-7

Client ID: RW-02-062317

Operator ID: KN/CDC

ALS Bottle#: 7

Worklist Smp#: 7

Purge Vol: 5.000 mL

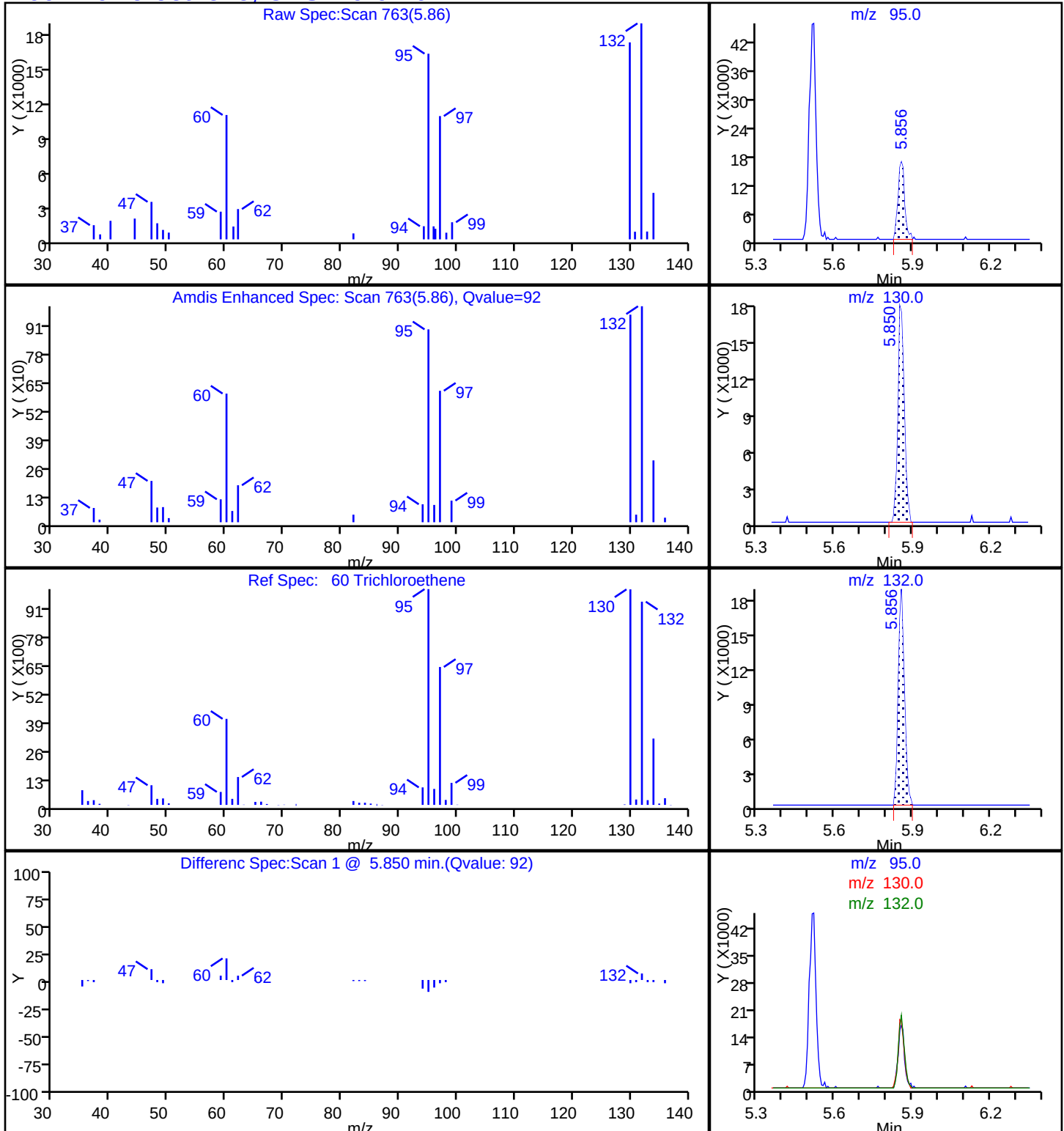
Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9254.D

Injection Date: 30-Jun-2017 13:52:30

Instrument ID: HP5973N

Lims ID: 480-120094-B-7

Lab Sample ID: 480-120094-7

Client ID: RW-02-062317

Operator ID: KN/CDC

ALS Bottle#: 7

Worklist Smp#: 7

Purge Vol: 5.000 mL

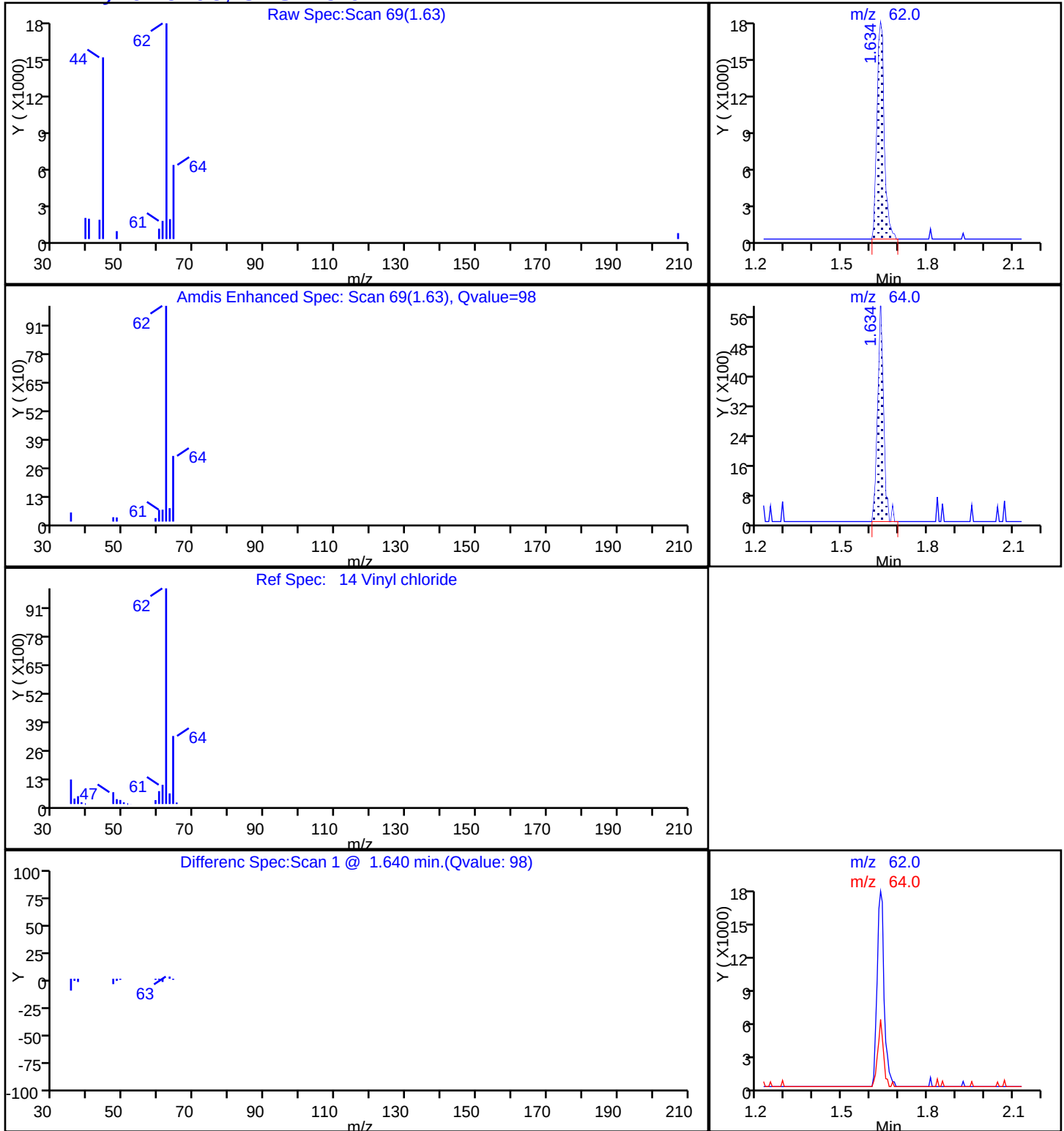
Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: MW-04-062317 Lab Sample ID: 480-120094-8
 Matrix: Water Lab File ID: C5139.D
 Analysis Method: 8260C Date Collected: 06/23/2017 14:45
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 22:50
 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.: 364568 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.380	U	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	0.810	U	2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	0.810	U	1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	0.900	U	1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		77-120
460-00-4	4-Bromofluorobenzene (Surr)	84		73-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5139.D
 Lims ID: 480-120094-A-8
 Client ID: MW-04-062317
 Sample Type: Client
 Inject. Date: 28-Jun-2017 22:50:30 ALS Bottle#: 19 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-8
 Misc. Info.: 480-0063674-017
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 29-Jun-2017 04:44:05 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: schreiberj

Date: 29-Jun-2017 15:27:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	134893	25.0	
* 2 Chlorobenzene-d5	82	11.835	11.836	-0.001	86	283251	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.852	-0.001	96	266958	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	173511	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	113792	28.8	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	672201	26.3	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	93	192734	21.1	
13 Vinyl chloride	62		5.147				ND	
15 Chloroethane	64		5.870				ND	
22 1,1-Dichloroethene	96		6.878				ND	
23 Acetone	43		6.914				ND	
34 trans-1,2-Dichloroethene	96		7.626				ND	
39 1,1-Dichloroethane	63		8.017				ND	
45 cis-1,2-Dichloroethene	96		8.515				ND	
51 1,1,1-Trichloroethane	97		8.942				ND	
57 Benzene	78		9.238				ND	
58 1,2-Dichloroethane	62		9.250				ND	
62 Trichloroethene	95		9.713				ND	
81 Tetrachloroethene	166		11.159				ND	
88 Ethylbenzene	91	11.871	11.871	0.000	91	5257	0.0944	
90 m-Xylene & p-Xylene	106	11.942	11.942	0.000	91	4503	0.2027	
91 o-Xylene	106	12.298	12.298	0.000	94	2714	0.1231	
S 124 Xylenes, Total	1				0		0.3258	
S 125 1,2-Dichloroethene, Total	1		30.000				ND	

Reagents:

C_8260_IS_00090	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5139.D

Injection Date: 28-Jun-2017 22:50:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-8

Lab Sample ID: 480-120094-8

Worklist Smp#: 17

Client ID: MW-04-062317

Purge Vol: 5.000 mL

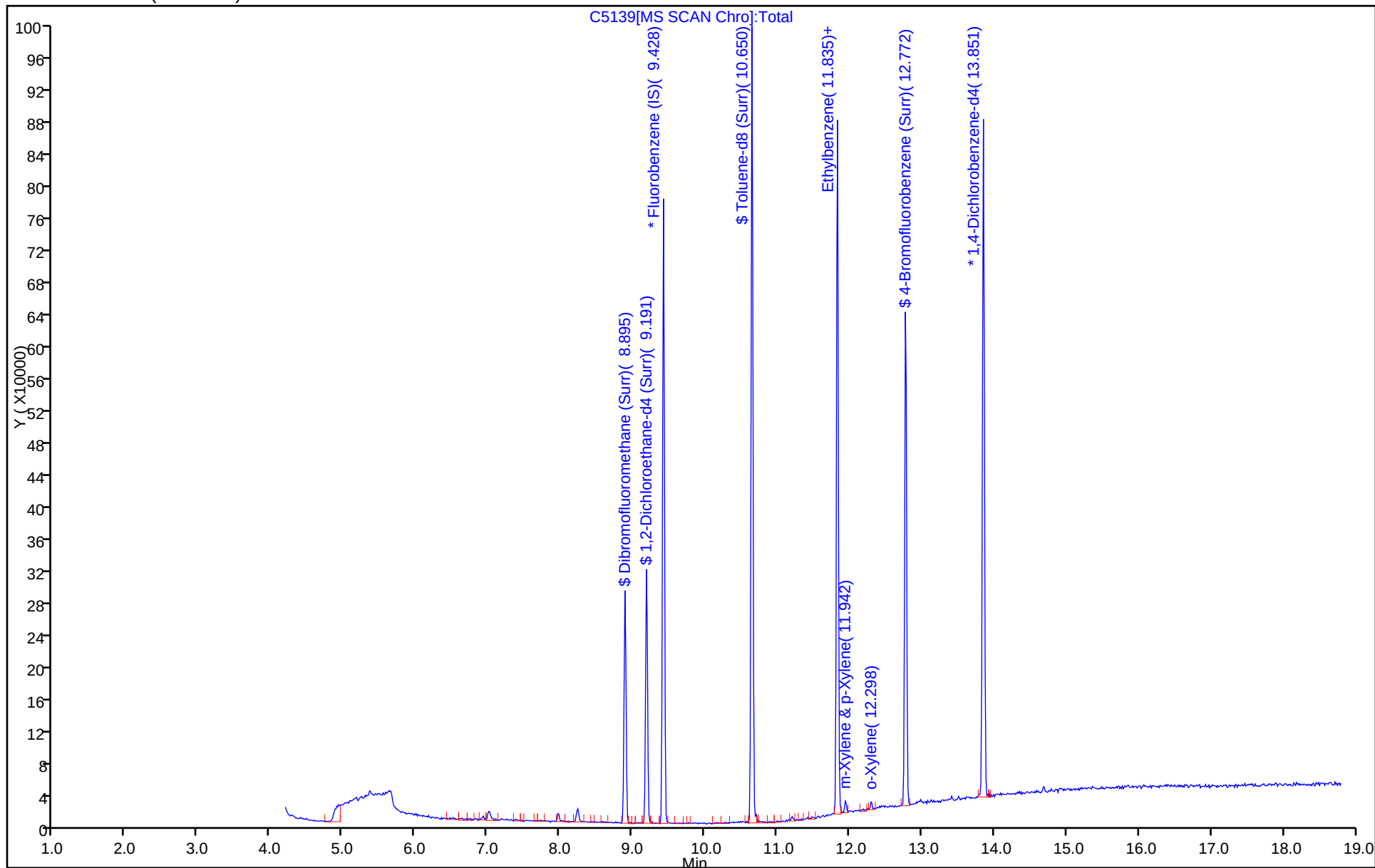
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: MW-02-062317 Lab Sample ID: 480-120094-9
 Matrix: Water Lab File ID: C5140.D
 Analysis Method: 8260C Date Collected: 06/23/2017 15:15
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 23:16
 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.: 364568 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.380	U	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	0.810	U	2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	0.810	U	1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	0.900	U	1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		77-120
460-00-4	4-Bromofluorobenzene (Surr)	85		73-120
2037-26-5	Toluene-d8 (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5140.D
 Lims ID: 480-120094-A-9
 Client ID: MW-02-062317
 Sample Type: Client
 Inject. Date: 28-Jun-2017 23:16:30 ALS Bottle#: 20 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-9
 Misc. Info.: 480-0063674-018
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 29-Jun-2017 15:27:53 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: schreiberj

Date: 29-Jun-2017 15:27:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	133169	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	87	283341	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.852	0.000	96	268268	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	170222	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	112503	28.8	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	94	662662	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	88	193211	21.1	
13 Vinyl chloride	62		5.147				ND	
15 Chloroethane	64		5.870				ND	
22 1,1-Dichloroethene	96		6.878				ND	
23 Acetone	43		6.914				ND	
34 trans-1,2-Dichloroethene	96		7.626				ND	
39 1,1-Dichloroethane	63		8.017				ND	
45 cis-1,2-Dichloroethene	96		8.515				ND	
51 1,1,1-Trichloroethane	97		8.942				ND	
57 Benzene	78		9.238				ND	
58 1,2-Dichloroethane	62		9.250				ND	
62 Trichloroethene	95		9.713				ND	
81 Tetrachloroethene	166		11.159				ND	
88 Ethylbenzene	91		11.871				ND	
90 m-Xylene & p-Xylene	106	11.954	11.942	0.012	35	2717	0.1223	
91 o-Xylene	106		12.298				ND	
S 124 Xylenes, Total	1				0		0.1223	
S 125 1,2-Dichloroethene, Total	1		30.000				ND	

Reagents:

C_8260_IS_00090	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5140.D

Injection Date: 28-Jun-2017 23:16:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-9

Lab Sample ID: 480-120094-9

Worklist Smp#: 18

Client ID: MW-02-062317

Purge Vol: 5.000 mL

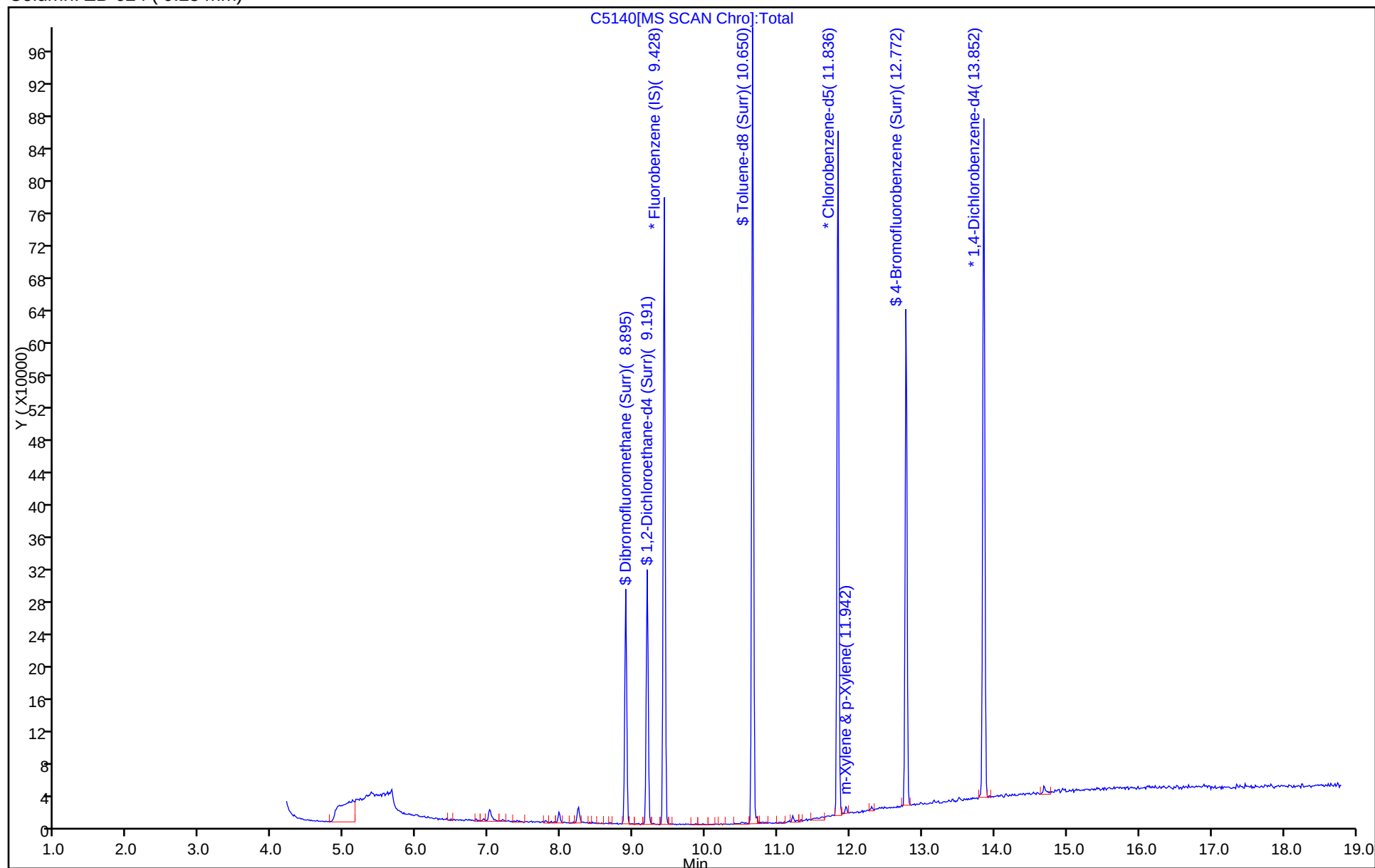
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: MW-01-062317 Lab Sample ID: 480-120094-10
 Matrix: Water Lab File ID: C5141.D
 Analysis Method: 8260C Date Collected: 06/23/2017 15:30
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 23:41
 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.: 364568 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.380	U	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	0.810	U	2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	0.810	U	1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	0.900	U	1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		77-120
460-00-4	4-Bromofluorobenzene (Surr)	85		73-120
2037-26-5	Toluene-d8 (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5141.D
 Lims ID: 480-120094-A-10
 Client ID: MW-01-062317
 Sample Type: Client
 Inject. Date: 28-Jun-2017 23:41:30 ALS Bottle#: 21 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-10
 Misc. Info.: 480-0063674-019
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 29-Jun-2017 15:27:53 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: schreiberj

Date: 29-Jun-2017 15:28:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	131096	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	86	278616	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.852	-0.001	96	264091	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	172235	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	113135	29.4	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	651839	25.9	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	88	190986	21.2	
13 Vinyl chloride	62		5.147				ND	
15 Chloroethane	64		5.870				ND	
22 1,1-Dichloroethene	96		6.878				ND	
23 Acetone	43		6.914				ND	
34 trans-1,2-Dichloroethene	96		7.626				ND	
39 1,1-Dichloroethane	63		8.017				ND	
45 cis-1,2-Dichloroethene	96		8.515				ND	
51 1,1,1-Trichloroethane	97		8.942				ND	
57 Benzene	78		9.238				ND	
58 1,2-Dichloroethane	62		9.250				ND	
62 Trichloroethene	95		9.713				ND	
81 Tetrachloroethene	166		11.159				ND	
88 Ethylbenzene	91		11.871				ND	
90 m-Xylene & p-Xylene	106		11.942				ND	
91 o-Xylene	106		12.298				ND	
S 124 Xylenes, Total	1		30.000				ND	
S 125 1,2-Dichloroethene, Total	1		30.000				ND	

Reagents:

C_8260_IS_00090	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5141.D

Injection Date: 28-Jun-2017 23:41:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-10

Lab Sample ID: 480-120094-10

Worklist Smp#: 19

Client ID: MW-01-062317

Purge Vol: 5.000 mL

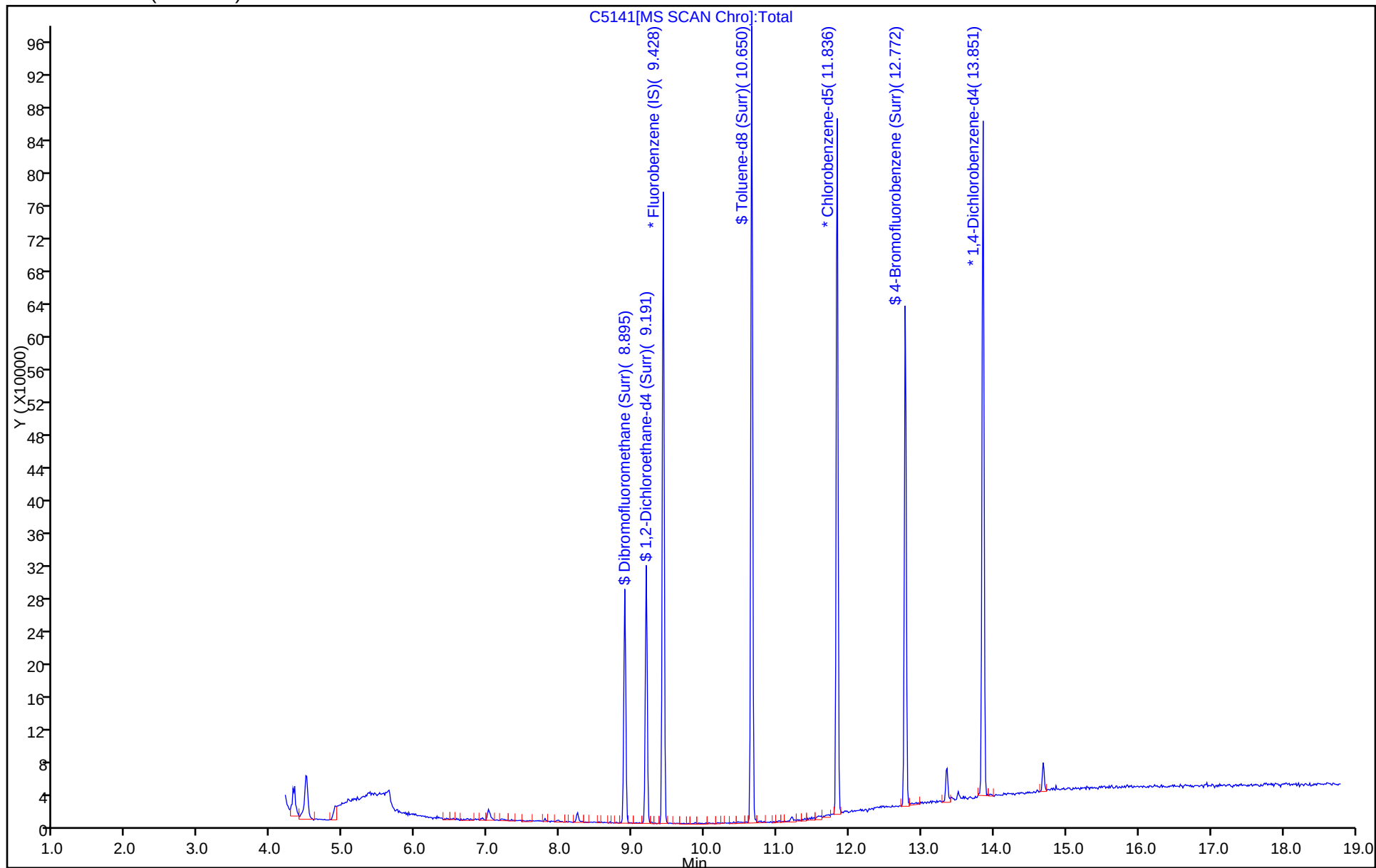
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: TB-001-062317 Lab Sample ID: 480-120094-11
 Matrix: Water Lab File ID: C5142.D
 Analysis Method: 8260C Date Collected: 06/23/2017 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/29/2017 00:06
 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.: 364568 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.380	U	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	0.810	U	2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	0.810	U	1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	0.900	U	1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		77-120
460-00-4	4-Bromofluorobenzene (Surr)	85		73-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5142.D
 Lims ID: 480-120094-A-11
 Client ID: TB-001-062317
 Sample Type: Client
 Inject. Date: 29-Jun-2017 00:06:30 ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-11
 Misc. Info.: 480-0063674-020
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 29-Jun-2017 15:28:09 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: schreiberj

Date: 29-Jun-2017 15:28:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	134013	25.0	
* 2 Chlorobenzene-d5	82	11.835	11.836	-0.001	86	276409	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.852	-0.001	96	263533	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	-0.001	93	170838	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	113260	28.8	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	653556	26.2	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	87	190662	21.4	
13 Vinyl chloride	62		5.147				ND	
15 Chloroethane	64		5.870				ND	
22 1,1-Dichloroethene	96		6.878				ND	
23 Acetone	43		6.914				ND	
34 trans-1,2-Dichloroethene	96		7.626				ND	
39 1,1-Dichloroethane	63		8.017				ND	
45 cis-1,2-Dichloroethene	96		8.515				ND	
51 1,1,1-Trichloroethane	97		8.942				ND	
57 Benzene	78		9.238				ND	
58 1,2-Dichloroethane	62		9.250				ND	
62 Trichloroethene	95		9.713				ND	
81 Tetrachloroethene	166		11.159				ND	
88 Ethylbenzene	91		11.871				ND	
90 m-Xylene & p-Xylene	106		11.942				ND	
91 o-Xylene	106		12.298				ND	
S 124 Xylenes, Total	1		30.000				ND	
S 125 1,2-Dichloroethene, Total	1		30.000				ND	

Reagents:

C_8260_IS_00090	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5142.D

Injection Date: 29-Jun-2017 00:06:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-11

Lab Sample ID: 480-120094-11

Worklist Smp#: 20

Client ID: TB-001-062317

Purge Vol: 5.000 mL

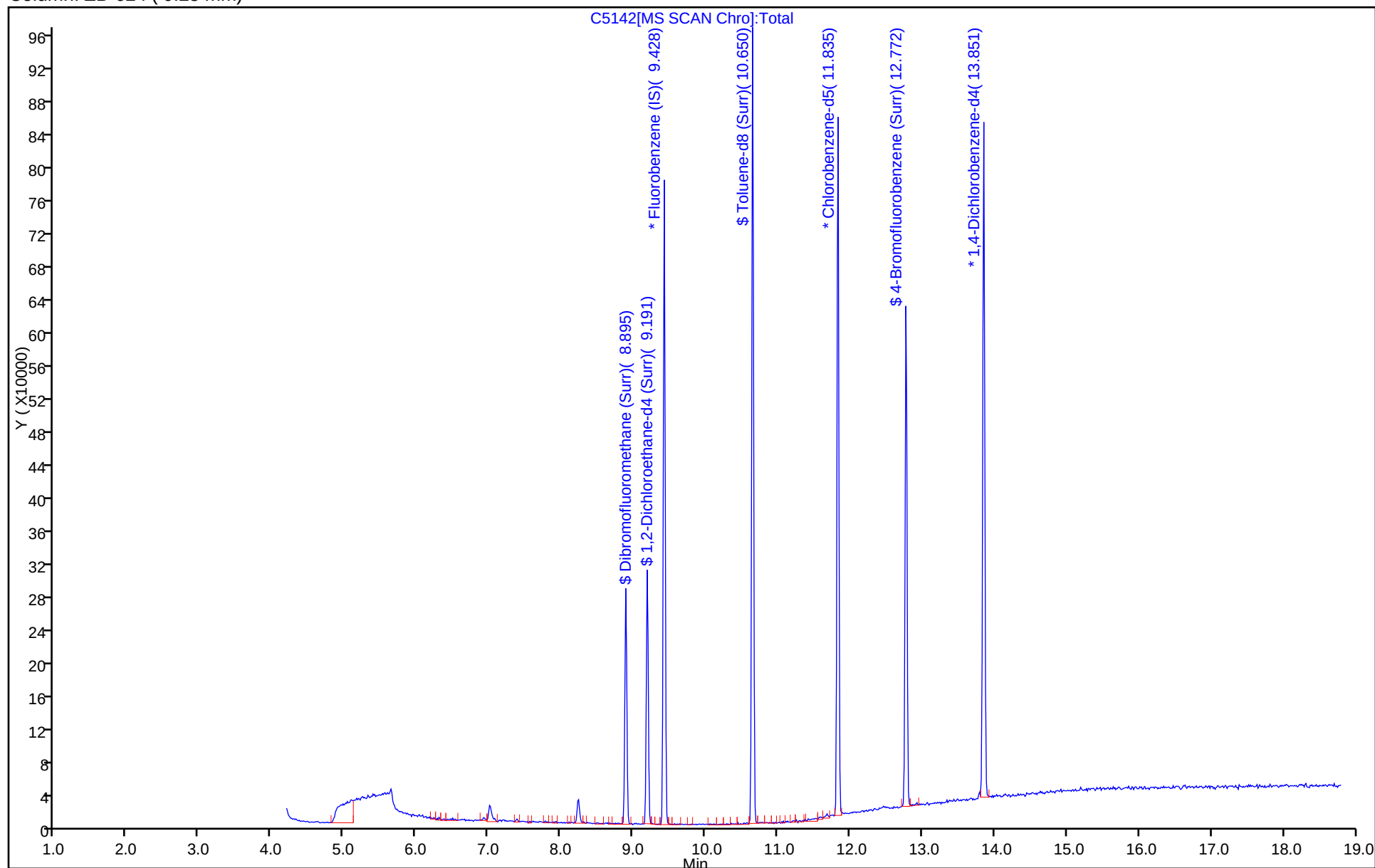
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: C-8260

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.: 480-120094-1 Analy Batch No.: 362749

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2017 15:19 Calibration End Date: 06/19/2017 18:15 Calibration ID: 30743

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-362749/8	C4689.D
Level 2	IC 480-362749/9	C4690.D
Level 3	IC 480-362749/10	C4691.D
Level 4	IC 480-362749/11	C4692.D
Level 5	IC 480-362749/12	C4693.D
Level 6	ICIS 480-362749/13	C4694.D
Level 7	IC 480-362749/14	C4695.D
Level 8	IC 480-362749/15	C4696.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 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	++++ 2.5222	1.9179 2.5124	2.3213 2.4125	2.5035	2.5425	Ave		2.3903			0.1000	9.3		20.0			
Chloromethane	1.4589 1.6799	1.4041 1.6945	1.6871 1.6556	1.8676	1.7893	Ave		1.6546			0.1000	9.4		20.0			
Vinyl chloride	++++ 1.4751	1.4488 1.5330	1.4876 1.5101	1.5086	1.4842	Ave		1.4925			0.1000	1.8		20.0			
Butadiene	++++ 1.3615	1.3800 1.3698	1.3579 1.3613	1.4081	1.3842	Ave		1.3747				1.3		20.0			
Bromomethane	1.8821 1.7328	1.8789 1.7589	1.7077 1.7310	1.7583	1.7505	Ave		1.7750			0.1000	3.8		20.0			
Chloroethane	++++ 1.5107	1.3986 1.5160	1.5122 1.4940	1.5482	1.4913	Ave		1.4959			0.1000	3.1		20.0			
Dichlorofluoromethane	++++ 3.5851	3.4678 3.6575	3.5227 3.5459	3.6312	3.6547	Ave		3.5807				2.0		20.0			
Trichlorofluoromethane	++++ 3.5500	3.1071 3.5349	3.2863 3.4226	3.5731	3.5266	Ave		3.4287			0.1000	5.1		20.0			
Ethyl ether	++++ 1.8233	1.8229 1.8604	1.6704 1.8488	1.7945	1.8493	Ave		1.8100				3.6		20.0			
Acrolein	++++ 0.3027	0.2876 0.3149	0.2623 0.3188	0.2889	0.2961	Ave		0.2959				6.4		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 2.1634	2.1266 2.1338	2.0834 2.1155	2.2397	2.1129	Ave		2.1393			0.1000	2.4		20.0			
1,1-Dichloroethene	++++ 2.0207	2.5073 2.0551	2.1265 2.0313	2.1643	2.0603	Ave		2.1379			0.1000	8.0		20.0			
Acetone	0.5789 0.5370	0.5963 0.5408	0.5400 0.5342	0.5761	0.5567	Ave		0.5575			0.1000	4.2		20.0			
Iodomethane	++++ 3.8050	3.8109 3.8738	3.5613 3.8936	3.7914	3.7470	Ave		3.7833				2.9		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.: 480-120094-1 Analy Batch No.: 362749
SDG No.: _____
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/19/2017 15:19 Calibration End Date: 06/19/2017 18:15 Calibration ID: 30743

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 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	++++ 7.6016	7.5910 7.7043	6.8637 7.6855	7.5305	7.4336	Ave		7.4872			0.1000	3.9		20.0			
Methyl acetate	1.2169 1.4767	1.5656 1.4592	1.4235 1.4198	1.5254	1.5183	Ave		1.4507			0.1000	7.4		20.0			
Allyl chloride	3.6590 3.4881	3.9728 3.4767	3.3678 3.4371	3.5316	3.4961	Ave		3.5536				5.3		20.0			
Methylene Chloride	++++ 2.2285	2.5683 2.2000	2.2524 2.1618	2.2901	2.2855	Ave		2.2838			0.1000	5.8		20.0			
2-Methyl-2-propanol	++++ 0.2190	0.2194 0.2210	0.1956 0.2287	0.2205	0.2171	Ave		0.2173				4.7		20.0			
Methyl tert-butyl ether	++++ 5.8047	5.7809 5.9385	5.3069 5.9418	5.7892	5.8816	Ave		5.7776			0.1000	3.8		20.0			
Acrylonitrile	0.5635 0.7493	0.7393 0.7286	0.6928 0.7064	0.7590	0.7466	Ave		0.7107				8.9		20.0			
trans-1,2-Dichloroethene	++++ 2.2606	2.6279 2.2156	2.3773 2.1471	2.4286	2.3221	Ave		2.3399			0.1000	6.8		20.0			
Hexane	++++ 3.0890	2.9443 3.0387	2.9559 3.0001	3.1601	3.0636	Ave		3.0359				2.5		20.0			
Vinyl acetate	++++ 4.1119	3.5827 4.3197	3.3937 4.3252	3.8323	3.9912	Ave		3.9367				9.1		20.0			
1,1-Dichloroethane	++++ 3.7971	3.8912 3.7838	3.6188 3.7102	3.9816	3.8818	Ave		3.8092			0.2000	3.2		20.0			
2-Butanone (MEK)	++++ 0.9000	0.9040 0.9204	0.8296 0.9302	0.9164	0.9219	Ave		0.9032			0.1000	3.8		20.0			
2,2-Dichloropropane	++++ 2.9987	3.0469 3.0133	2.9340 2.9397	3.0856	3.0064	Ave		3.0035				1.8		20.0			
cis-1,2-Dichloroethene	++++ 2.5661	2.8172 2.5273	2.4529 2.4981	2.6166	2.5892	Ave		2.5811			0.1000	4.6		20.0			
Chlorobromomethane	++++ 1.2411	1.3003 1.2711	1.1703 1.2677	1.2775	1.2745	Ave		1.2575				3.4		20.0			
Chloroform	4.1864 3.7813	4.2171 3.7635	3.8782 3.7276	3.9143	3.8493	Ave		3.9147			0.2000	4.8		20.0			
Tetrahydrofuran	0.7479 0.6179	0.7708 0.6252	0.6478 0.6194	0.6367	0.6390	Ave		0.6631				9.1		20.0			
1,1,1-Trichloroethane	++++ 3.3016	3.2096 3.3089	3.0386 3.3075	3.3207	3.2847	Ave		3.2531			0.1000	3.1		20.0			
Cyclohexane	++++ 4.0685	3.6851 3.9996	3.8288 3.9306	4.0937	4.0079	Ave		3.9449			0.1000	3.7		20.0			
Isobutyl alcohol	++++ 0.1156	0.1115 0.1185	0.1039 0.1195	0.1124	0.1138	Ave		0.1136				4.6		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.: 480-120094-1 Analy Batch No.: 362749
SDG No.: _____
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/19/2017 15:19 Calibration End Date: 06/19/2017 18:15 Calibration ID: 30743

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 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	++++ 2.8981	2.8355 2.8970	2.6399 2.8708	3.0015	2.8958	Ave		2.8627				3.9		20.0			
Carbon tetrachloride	++++ 3.0158	2.8634 3.0521	2.7853 3.0636	3.0581	2.9304	Ave		2.9669			0.1000	3.7		20.0			
Benzene	++++ 8.5972	9.2883 8.4944	8.4847 8.3042	9.0769	8.6921	Ave		8.7054			0.5000	4.0		20.0			
1,2-Dichloroethane	++++ 2.9153	3.3086 2.9233	2.9002 2.8482	3.0293	2.9971	Ave		2.9888			0.1000	5.1		20.0			
n-Heptane	++++ 3.0038	3.1169 2.9210	2.6382 2.8497	3.0585	2.9531	Ave		2.9345				5.4		20.0			
Trichloroethene	++++ 2.2934	2.3777 2.2908	2.1726 2.3223	2.3670	2.2730	Ave		2.2996			0.2000	3.0		20.0			
Methylcyclohexane	++++ 3.7284	3.3820 3.7198	3.2256 3.7081	3.6600	3.5634	Ave		3.5696			0.1000	5.5		20.0			
1,2-Dichloropropane	++++ 2.2819	2.2535 2.3312	2.1459 2.2961	2.3381	2.3013	Ave		2.2783			0.1000	2.9		20.0			
1,4-Dioxane	++++ 0.0102	++++ 0.0100	0.0088 0.0101	0.0097	0.0093	Ave		0.0097				5.6		20.0			
Dibromomethane	++++ 1.3840	1.4001 1.4003	1.2553 1.3943	1.3605	1.3661	Ave		1.3658			0.1000	3.7		20.0			
Bromodichloromethane	++++ 2.6497	2.5201 2.7488	2.3291 2.8087	2.5217	2.5842	Ave		2.5946			0.2000	6.2		20.0			
2-Chloroethyl vinyl ether	++++ 1.3230	1.0868 1.4125	0.9808 1.4646	1.1730	1.2809	Ave		1.2460				14.0		20.0			
cis-1,3-Dichloropropene	++++ 3.4799	3.1568 3.6716	2.9423 3.6709	3.2339	3.3781	Ave		3.3619			0.2000	8.1		20.0			
4-Methyl-2-pentanone (MIBK)	++++ 0.9124	0.7982 0.9131	0.7647 0.8743	0.8634	0.9018	Ave		0.8611			0.1000	6.8		20.0			
Toluene	++++ 2.5599	2.5067 2.5506	2.4440 2.4804	2.6351	2.5691	Ave		2.5351			0.4000	2.5		20.0			
Ethyl methacrylate	++++ 1.0674	0.8205 1.1452	0.7626 1.1773	0.8791	0.9529	Ave		0.9721				16.6		20.0			
trans-1,3-Dichloropropene	++++ 1.4244	1.2232 1.4679	1.1763 1.4550	1.3232	1.3732	Ave		1.3490			0.1000	8.5		20.0			
1,1,2-Trichloroethane	++++ 0.7219	0.6867 0.7333	0.6828 0.7163	0.7465	0.7367	Ave		0.7177			0.1000	3.4		20.0			
2-Hexanone	++++ 0.6470	0.5448 0.6582	0.5280 0.6397	0.5932	0.6311	Ave		0.6060			0.1000	8.6		20.0			
Tetrachloroethene	++++ 1.1873	1.2489 1.1754	1.1196 1.1415	1.2093	1.1893	Ave		1.1816			0.2000	3.6		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.: 480-120094-1 Analy Batch No.: 362749
SDG No.: _____
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/19/2017 15:19 Calibration End Date: 06/19/2017 18:15 Calibration ID: 30743

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 8	LVL 4	LVL 5		B	M1	M2								
1,3-Dichloropropane	++++ 1.5552	1.5379 1.5346	1.4628 1.4803	1.5589	1.6113	Ave		1.5344				3.3		20.0			
Dibromochloromethane	++++ 0.9597	0.8323 1.0099	0.7677 1.0455	0.8632	0.9179	Ave		0.9137			0.1000	10.9		20.0			
1,2-Dibromoethane	++++ 0.9215	0.9398 0.9303	0.8189 0.9326	0.8935	0.9121	Ave		0.9070				4.6		20.0			
Chlorobenzene	++++ 3.0897	3.1138 3.0396	2.9267 2.9022	3.1821	3.1029	Ave		3.0510			0.5000	3.4		20.0			
Ethylbenzene	++++ 4.9873	5.1178 4.8761	4.8362 4.6824	5.0018	4.8932	Ave		4.9135			0.1000	2.8		20.0			
1,1,1,2-Tetrachloroethane	++++ 1.0633	0.9976 1.0650	0.9715 1.0612	1.0322	1.0602	Ave		1.0358				3.6		20.0			
m,p-Xylene	++++ 2.0333	1.8745 2.0084	1.8145 1.9680	2.0195	2.0079	Ave		1.9608			0.1000	4.3		20.0			
o-Xylene	++++ 2.0120	1.9096 1.9769	1.8287 1.8939	1.9938	2.0067	Ave		1.9459			0.3000	3.6		20.0			
Styrene	++++ 3.2114	2.6788 3.2366	2.6084 3.1729	2.9862	3.0771	Ave		2.9959			0.3000	8.5		20.0			
Isopropylbenzene	++++ 4.6976	4.5168 4.7388	4.3773 4.5910	4.6706	4.6497	Ave		4.6060			0.1000	2.7		20.0			
Bromoform	++++ 0.5716	0.4672 0.6110	0.4630 0.6417	0.5194	0.5379	Ave		0.5446			0.1000	12.5		20.0			
1,1,2,2-Tetrachloroethane	++++ 1.0569	1.0818 1.0827	1.0317 1.0887	1.0589	1.0792	Ave		1.0686			0.3000	1.9		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.2897	0.2287 0.3142	0.2391 0.3232	0.2831	0.2838	Ave		0.2802				12.6		20.0			
N-Propylbenzene	++++ 5.4787	5.4273 5.5288	5.1154 5.3614	5.5104	5.3958	Ave		5.4025				2.6		20.0			
1,2,3-Trichloropropane	++++ 0.3491	0.3910 0.3518	0.3211 0.3436	0.3677	0.3512	Ave		0.3537				6.1		20.0			
Bromobenzene	++++ 1.2632	1.2074 1.2927	1.2059 1.2593	1.3012	1.2846	Ave		1.2592				3.1		20.0			
1,3,5-Trimethylbenzene	++++ 3.9004	3.7167 3.9669	3.5759 3.8786	3.8279	3.8467	Ave		3.8162				3.4		20.0			
2-Chlorotoluene	++++ 1.1610	1.1079 1.1656	1.0745 1.1384	1.1811	1.1721	Ave		1.1429				3.4		20.0			
4-Chlorotoluene	++++ 1.2074	1.2401 1.2236	1.1338 1.1950	1.2105	1.2137	Ave		1.2034				2.8		20.0			
tert-Butylbenzene	++++ 0.9117	0.9687 0.9314	0.8542 0.9067	0.9257	0.8988	Ave		0.9139				3.8		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.: 480-120094-1 Analy Batch No.: 362749
SDG No.: _____
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/19/2017 15:19 Calibration End Date: 06/19/2017 18:15 Calibration ID: 30743

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 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	++++ 4.0790	3.8518 4.1138	3.6939 3.9935	4.0221	4.0526	Ave		3.9724				3.7		20.0			
sec-Butylbenzene	++++ 5.0069	4.6119 5.0834	4.5297 4.9382	4.8965	4.8931	Ave		4.8514				4.2		20.0			
4-Isopropyltoluene	++++ 4.3061	3.8830 4.3855	3.7827 4.2993	4.1739	4.2127	Ave		4.1490				5.5		20.0			
1,3-Dichlorobenzene	++++ 2.4528	2.5161 2.4911	2.3753 2.4553	2.4868	2.4898	Ave		2.4667			0.6000	1.9		20.0			
1,4-Dichlorobenzene	++++ 2.4947	2.5939 2.5138	2.4011 2.4773	2.5774	2.5500	Ave		2.5155			0.5000	2.6		20.0			
n-Butylbenzene	++++ 3.7259	3.6508 3.8191	3.3748 3.7499	3.6789	3.5990	Ave		3.6569				3.9		20.0			
1,2-Dichlorobenzene	++++ 2.3690	2.4123 2.3914	2.2153 2.3736	2.4079	2.3843	Ave		2.3648			0.4000	2.9		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1677	0.1527 0.1816	0.1694 0.1877	0.1621	0.1713	Ave		0.1703			0.0500	6.8		20.0			
1,2,4-Trichlorobenzene	++++ 1.6865	1.6939 1.7480	1.5664 1.7356	1.6616	1.6670	Ave		1.6799			0.2000	3.6		20.0			
Hexachlorobutadiene	++++ 0.6052	0.5379 0.6321	0.5231 0.6281	0.5834	0.5920	Ave		0.5860				7.2		20.0			
Naphthalene	++++ 4.0412	3.7881 4.2370	3.5329 4.2463	3.8863	3.9768	Ave		3.9584				6.4		20.0			
1,2,3-Trichlorobenzene	++++ 1.5299	1.4930 1.5926	1.3845 1.5915	1.4948	1.5500	Ave		1.5195				4.7		20.0			
Dibromofluoromethane (Surr)	1.2371 1.2586	1.2469 1.2689	1.2290 1.2514	1.2466	1.2420	Ave		1.2476				1.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7456 0.7342	0.7349 0.7284	0.7498 0.7122	0.7302	0.7268	Ave		0.7328				1.6		20.0			
Toluene-d8 (Surr)	2.2410 2.2877	2.2374 2.2797	2.2627 2.2290	2.2516	2.2690	Ave		2.2573				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.7958 0.8172	0.7956 0.8149	0.8063 0.8149	0.8010	0.8087	Ave		0.8068				1.1		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
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 362749

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2017 15:19 Calibration End Date: 06/19/2017 18:15 Calibration ID: 30743

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-362749/8	C4689.D
Level 2	IC 480-362749/9	C4690.D
Level 3	IC 480-362749/10	C4691.D
Level 4	IC 480-362749/11	C4692.D
Level 5	IC 480-362749/12	C4693.D
Level 6	ICIS 480-362749/13	C4694.D
Level 7	IC 480-362749/14	C4695.D
Level 8	IC 480-362749/15	C4696.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	++++ 330591	10034 666787	24220 1318251	65557	133396	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	3037 220196	7346 449720	17603 904683	48906	93876	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	++++ 193351	7580 406839	15521 825161	39505	77872	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	++++ 178452	7220 363537	14168 743851	36873	72621	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	3918 227130	9830 466808	17818 945883	46045	91844	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 198009	7317 402336	15778 816381	40542	78244	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	++++ 469913	18143 970668	36755 1937587	95090	191748	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	++++ 465317	16256 938140	34289 1870183	93568	185024	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	++++ 238983	9537 493741	17429 1010262	46993	97026	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	++++ 198382	7524 417869	13686 871065	37825	77688	++++ 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 283559	11126 566297	21738 1155945	58650	110857	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	++++ 264860	13118 545401	22188 1109981	56676	108095	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	6026 351950	15600 717686	28171 1459615	75432	146045	2.00 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	++++ 498733	19938 1028073	37158 2127573	99284	196592	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	++++ 996375	39715 2044674	71615 4199569	197198	390010	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 362749

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2017 15:19 Calibration End Date: 06/19/2017 18:15 Calibration ID: 30743

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methyl acetate	FB	Ave	12666 967776	40955 1936371	74264 3878982	199722	398292	2.00 125	5.00 250	10.0 500	25.0	50.0
Allyl chloride	FB	Ave	7617 457199	20785 922692	35139 1878123	92481	183425	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylene Chloride	FB	Ave	++++ 292098	13437 583859	23501 1181278	59969	119910	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	++++ 287034	11478 586413	20412 1249866	57740	113926	++++ 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	++++ 760843	30245 1576029	55371 3246759	151599	308582	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	11730 982151	38677 1933787	72283 3859895	198746	391696	4.00 250	10.0 500	20.0 1000	50.0	100
trans-1,2-Dichloroethene	FB	Ave	++++ 296302	13749 588018	24804 1173245	63598	121830	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexane	FB	Ave	++++ 404894	15404 806447	30841 1639315	82751	160737	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	++++ 1077915	37488 2292854	70819 4726826	200711	418806	++++ 50.0	2.00 100	4.00 200	10.0	20.0
1,1-Dichloroethane	FB	Ave	++++ 497706	20358 1004205	37758 2027351	104265	203663	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	++++ 589802	23649 1221306	43278 2541410	119990	241847	++++ 125	5.00 250	10.0 500	25.0	50.0
2,2-Dichloropropane	FB	Ave	++++ 393049	15941 799724	30613 1606317	80801	157735	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	++++ 336347	14739 670741	25593 1365016	68521	135845	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobromomethane	FB	Ave	++++ 162676	6803 337346	12211 692730	33454	66869	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroform	FB	Ave	8715 495632	22063 998822	40464 2036870	102501	201958	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	3114 161975	8065 331863	13518 676869	33345	67055	0.800 50.0	2.00 100	4.00 200	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	++++ 432750	16792 878163	31704 1807284	86959	172335	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	++++ 533269	19280 1061462	39949 2147800	107199	210277	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	++++ 378663	14585 786134	27095 1632574	73600	149202	++++ 625	25.0 1250	50.0 2500	125	250
1,1-Dichloropropene	FB	Ave	++++ 379864	14835 768837	27544 1568698	78599	151932	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	++++ 395298	14981 810005	29061 1674015	80081	153744	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 362749

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2017 15:19 Calibration End Date: 06/19/2017 18:15 Calibration ID: 30743

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	++++ 1126873	48595 2254364	88528 4537622	237694	456039	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	++++ 382115	17310 775820	30260 1556313	79326	157246	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	++++ 393724	16307 775218	27527 1557141	80091	154936	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	++++ 300600	12440 607971	22669 1268984	61984	119257	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	++++ 488702	17694 987210	33655 2026198	95842	186958	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	++++ 299092	11790 618693	22390 1254667	61227	120740	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	++++ 60085	++++ 121089	4103 254510	11461	22193	++++ 500	++++ 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	++++ 181402	7325 371633	13098 761887	35628	71676	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	++++ 347302	13185 729507	24301 1534779	66036	135581	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 173416	5686 374857	10234 800308	30717	67204	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	++++ 456125	16516 974423	30699 2005878	84684	177238	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	++++ 1344712	47972 2772709	89436 5519806	256082	535886	++++ 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	++++ 754601	30129 1548976	57170 3132076	156309	305337	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	++++ 314633	9862 695453	17839 1486573	52148	113247	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 419873	14702 891473	27516 1837296	78491	163204	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 212805	8254 445299	15971 904449	44278	87562	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	++++ 953639	32744 1998544	61756 4039052	175936	375049	++++ 125	5.00 250	10.0 500	25.0	50.0
Tetrachloroethene	CBNZ d5	Ave	++++ 349988	15011 713841	26191 1441481	71731	141346	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 458431	18485 931935	34217 1869204	92471	191504	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromochloromethane	CBNZ d5	Ave	++++ 282889	10004 613276	17958 1320143	51203	109095	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	++++ 271621	11296 564994	19156 1177625	53002	108407	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 362749

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2017 15:19 Calibration End Date: 06/19/2017 18:15 Calibration ID: 30743

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	++++ 910779	37426 1845953	68463 3664770	188751	368780	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	++++ 1470120	61514 2961246	113129 5912620	296691	581564	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 313437	11991 646766	22725 1339961	61226	126000	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	++++ 599353	22530 1219658	42445 2485121	119789	238637	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	++++ 593087	22952 1200535	42777 2391472	118269	238500	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	++++ 946639	32198 1965553	61017 4006550	177134	365717	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	++++ 1511970	57900 3061899	109512 6128584	299428	597870	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	++++ 168498	5615 371052	10831 810305	30812	63933	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	++++ 340172	13867 699603	25811 1453347	67887	138764	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 93253	2931 202996	5982 431412	18152	36486	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	++++ 1763386	69571 3572360	127978 7156943	353268	693803	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 112376	5012 227337	8034 458719	23570	45161	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	++++ 406574	15477 835278	30169 1681069	83417	165179	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 1255389	47643 2563162	89463 5177603	245406	494613	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	++++ 373669	14202 753130	26883 1519685	75723	150707	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	++++ 388599	15896 790600	28366 1595174	77604	156055	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	++++ 293452	12418 601780	21370 1210338	59344	115574	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	++++ 1312862	49375 2658084	92416 5330926	257856	521092	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	++++ 1611520	59118 3284558	113325 6592020	313911	629160	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	++++ 1385957	49775 2833608	94638 5739156	267590	541671	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	++++ 789445	32253 1609617	59425 3277600	159426	320142	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 362749

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2017 15:19 Calibration End Date: 06/19/2017 18:15 Calibration ID: 30743

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 802946	33251 1624282	60071 3306935	165239	327878	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	++++ 1199207	46799 2467664	84433 5005690	235850	462761	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 762485	30922 1545144	55424 3168540	154369	306576	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 53962	1958 117332	4237 250537	10393	22022	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 542818	21714 1129454	39189 2316830	106526	214351	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 194800	6895 408403	13088 838422	37404	76116	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	++++ 1300706	48559 2737695	88388 5668417	249147	511339	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	++++ 492415	19138 1029039	34638 2124458	95833	199304	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	160956 164975	163094 168374	160291 170949	163217	162908	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	97005 96241	96126 96659	97797 97295	95602	95332	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	656400 674358	672297 692231	661629 703679	667805	674173	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	233101 240903	239067 247438	235776 257239	237578	240286	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4689.D
 Lims ID: IC 0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 19-Jun-2017 15:19:30 ALS Bottle#: 16 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.4
 Misc. Info.: 480-0063379-008
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Jun-2017 23:45:23 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: HillL

Date: 19-Jun-2017 17:03:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	130108	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.835	0.001	85	292910	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.851	0.001	94	309710	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	160956	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	97005	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	656400	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	96	233101	25.0	24.7	
10 Dichlorodifluoromethane	85	4.495	4.507	-0.012	85	3401	0.4000	0.2734	
12 Chloromethane	50	4.898	4.910	-0.012	91	3037	0.4000	0.3527	M
13 Vinyl chloride	62	5.136	5.147	-0.011	94	3434	0.4000	0.4421	
151 Butadiene	54	5.183	5.183	0.000	91	3256	0.4000	0.4551	
14 Bromomethane	94	5.728	5.752	-0.024	80	3918	0.4000	0.4241	
15 Chloroethane	64		5.882				ND	ND	
16 Dichlorofluoromethane	67	6.155	6.167	-0.012	93	6519	0.4000	0.3498	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	93	5912	0.4000	0.3313	
18 Ethyl ether	59	6.547	6.547	0.000	92	2846	0.4000	0.3021	
20 Acrolein	56	6.772	6.772	0.000	1	2347	2.00	1.52	M
21 1,1,2-Trichloro-1,2,2-trif	101	6.808	6.819	-0.011	79	2326	0.4000	0.2089	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	90	5773	0.4000	0.5189	
23 Acetone	43	6.926	6.914	0.012	74	6026	2.00	2.08	
25 Iodomethane	142	7.104	7.104	0.000	94	6184	0.4000	0.3141	
26 Carbon disulfide	76	7.199	7.199	0.000	98	12996	0.4000	0.3335	
27 Methyl acetate	43	7.223	7.222	0.001	76	12666	2.00	1.68	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	79	7617	0.4000	0.4119	
30 Methylene Chloride	84	7.389	7.389	0.000	92	6098	0.4000	0.5131	
31 2-Methyl-2-propanol	59	7.412	7.400	0.012	91	3621	4.00	3.20	
32 Methyl tert-butyl ether	73	7.578	7.566	0.012	95	9570	0.4000	0.3183	
33 Acrylonitrile	53	7.614	7.614	0.000	97	11730	4.00	3.17	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	65	6044	0.4000	0.4963	
35 Hexane	57	7.792	7.792	0.000	94	4658	0.4000	0.2948	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.970	7.970	0.000	1	11908	0.8000	0.5812	M
39 1,1-Dichloroethane	63	8.029	8.029	0.000	1	5684	0.4000	0.2867	
43 2-Butanone (MEK)	43	8.492	8.480	0.012	96	6741	2.00	1.43	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	77	4678	0.4000	0.3483	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	26	5596	0.4000	0.3580	
48 Chlorobromomethane	128	8.741	8.740	0.001	91	1758	0.4000	0.2686	
50 Chloroform	83	8.752	8.752	0.000	92	8715	0.4000	0.4278	
49 Tetrahydrofuran	42	8.776	8.764	0.012	56	3114	0.8000	0.9024	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	90	4894	0.4000	0.2891	
52 Cyclohexane	56	8.978	8.989	-0.011	90	5304	0.4000	0.2583	
53 Isobutyl alcohol	43	9.013	9.001	0.012	41	3911	10.0	6.62	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	90	3737	0.4000	0.2508	
55 Carbon tetrachloride	117	9.073	9.072	0.001	16	3944	0.4000	0.2554	
57 Benzene	78	9.250	9.238	0.012	91	15855	0.4000	0.3500	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	88	5195	0.4000	0.3340	
59 n-Heptane	43	9.274	9.274	0.000	92	4935	0.4000	0.3231	
62 Trichloroethene	95	9.713	9.713	0.000	94	3682	0.4000	0.3077	
64 Methylcyclohexane	83	9.867	9.867	0.000	82	4595	0.4000	0.2473	
65 1,2-Dichloropropane	63	9.915	9.914	0.001	90	3583	0.4000	0.3022	
66 1,4-Dioxane	88		9.986				ND	ND	
67 Dibromomethane	93	10.045	10.045	0.000	96	2127	0.4000	0.2992	
68 Dichlorobromomethane	83	10.116	10.116	0.000	91	3559	0.4000	0.2636	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	1	1334	0.4000	0.2057	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	92	4865	0.4000	0.2781	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	97	13953	2.00	1.38	
74 Toluene	92	10.709	10.709	0.000	98	9403	0.4000	0.3166	
75 Ethyl methacrylate	69	10.780	10.780	0.000	76	2608	0.4000	0.2290	
77 trans-1,3-Dichloropropene	75	10.851	10.839	0.012	89	4879	0.4000	0.3087	
79 1,1,2-Trichloroethane	83	11.029	11.029	0.000	80	2416	0.4000	0.2873	
80 2-Hexanone	43	11.112	11.112	0.000	64	9474	2.00	1.33	
81 Tetrachloroethene	166	11.160	11.160	0.000	94	3999	0.4000	0.2889	
82 1,3-Dichloropropane	76	11.172	11.171	0.001	42	5960	0.4000	0.3315	
83 Chlorodibromomethane	129	11.385	11.385	0.000	75	2673	0.4000	0.2497	
84 Ethylene Dibromide	107	11.527	11.527	0.000	97	2940	0.4000	0.2767	
87 Chlorobenzene	112	11.859	11.859	0.000	96	12803	0.4000	0.3582	
88 Ethylbenzene	91	11.871	11.871	0.000	95	20050	0.4000	0.3483	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	70	3660	0.4000	0.3016	
90 m-Xylene & p-Xylene	106	11.954	11.954	0.000	96	7072	0.4000	0.3078	
91 o-Xylene	106	12.298	12.298	0.000	97	6189	0.4000	0.2715	
92 Styrene	104	12.310	12.310	0.000	92	9679	0.4000	0.2757	
94 Isopropylbenzene	105	12.571	12.571	0.000	94	17738	0.4000	0.3109	
95 Bromoform	173	12.583	12.583	0.000	41	1512	0.4000	0.2370	
97 1,1,2,2-Tetrachloroethane	83	12.855	12.855	0.000	82	4068	0.4000	0.3073	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	1	563	0.4000	0.1622	M
99 N-Propylbenzene	91	12.927	12.926	0.001	98	21571	0.4000	0.3223	
100 1,2,3-Trichloropropane	110	12.938	12.938	0.000	49	1172	0.4000	0.2675	
101 Bromobenzene	156	12.974	12.974	0.000	93	4748	0.4000	0.3044	
102 1,3,5-Trimethylbenzene	105	13.045	13.045	0.000	93	15422	0.4000	0.3262	
103 2-Chlorotoluene	126	13.093	13.092	0.001	96	4482	0.4000	0.3165	
105 4-Chlorotoluene	126	13.176	13.175	0.001	96	4546	0.4000	0.3049	
106 tert-Butylbenzene	134	13.377	13.377	0.000	92	3920	0.4000	0.3462	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	92	15716	0.4000	0.3194	

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	13.567	13.567	0.000	93	18465	0.4000	0.3072	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	94	14730	0.4000	0.2866	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	89	9834	0.4000	0.3218	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	93	10201	0.4000	0.3273	
115 n-Butylbenzene	91	14.089	14.089	0.000	96	14883	0.4000	0.3285	
116 1,2-Dichlorobenzene	146	14.302	14.290	0.012	92	9465	0.4000	0.3231	
117 1,2-Dibromo-3-Chloropropan	75		15.168				ND	ND	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	22	5996	0.4000	0.2881	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	72	1782	0.4000	0.2455	
121 Naphthalene	128	16.650	16.650	0.000	45	14744	0.4000	0.3007	
122 1,2,3-Trichlorobenzene	180	17.030	17.029	0.001	92	6045	0.4000	0.3211	
S 123 Total BTEX	1				0			1.59	
S 124 Xylenes, Total	1				0			0.5793	
S 125 1,2-Dichloroethene, Total	1				0			0.8446	
S 126 1,3-Dichloropropene, Total	1				0			0.5867	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00100	Amount Added: 0.40	Units: uL	
GAS CORP mix_00225	Amount Added: 0.40	Units: uL	
C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00098	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4689.D

Injection Date: 19-Jun-2017 15:19:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 0.4

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

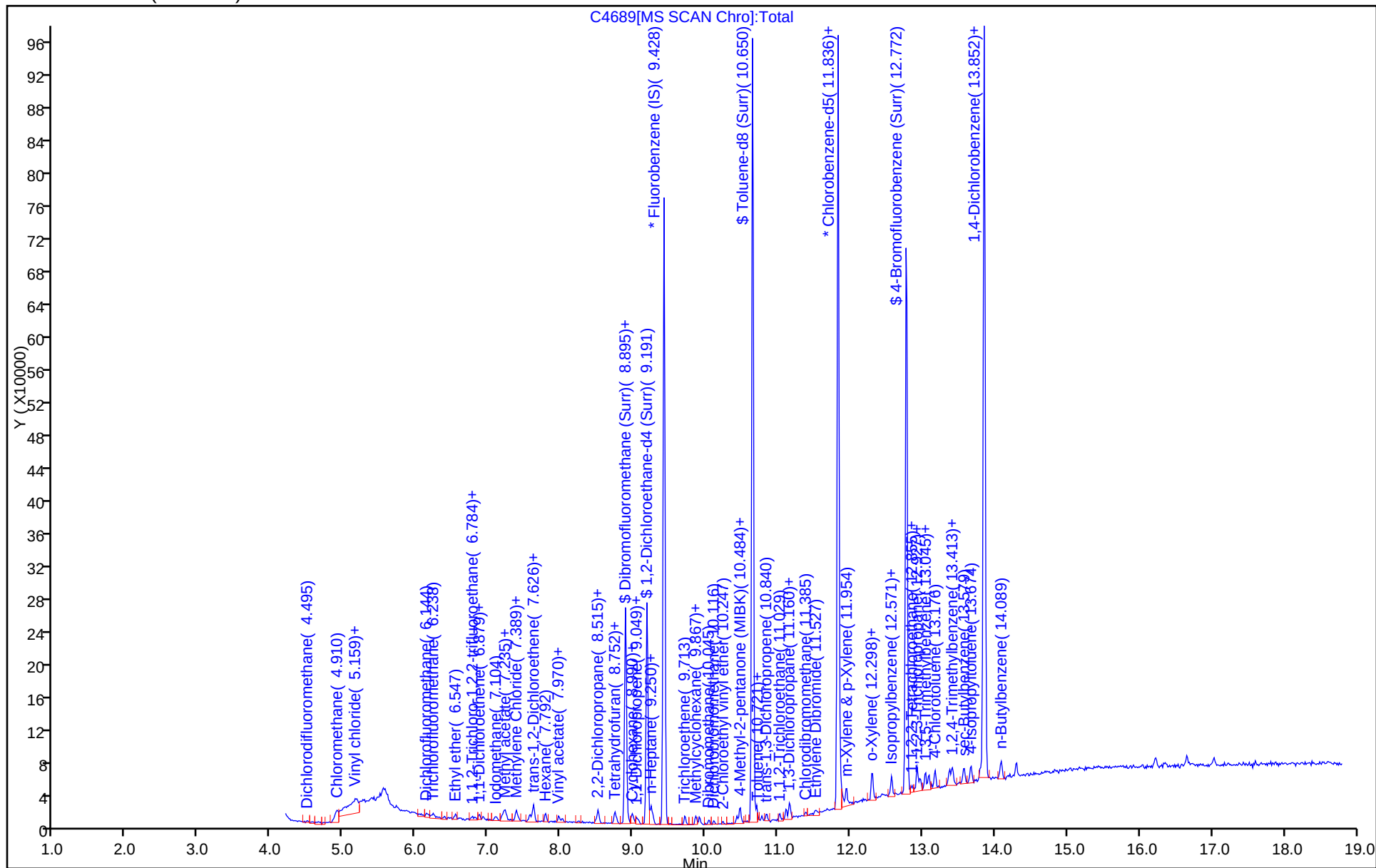
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4689.D

Injection Date: 19-Jun-2017 15:19:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

16

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

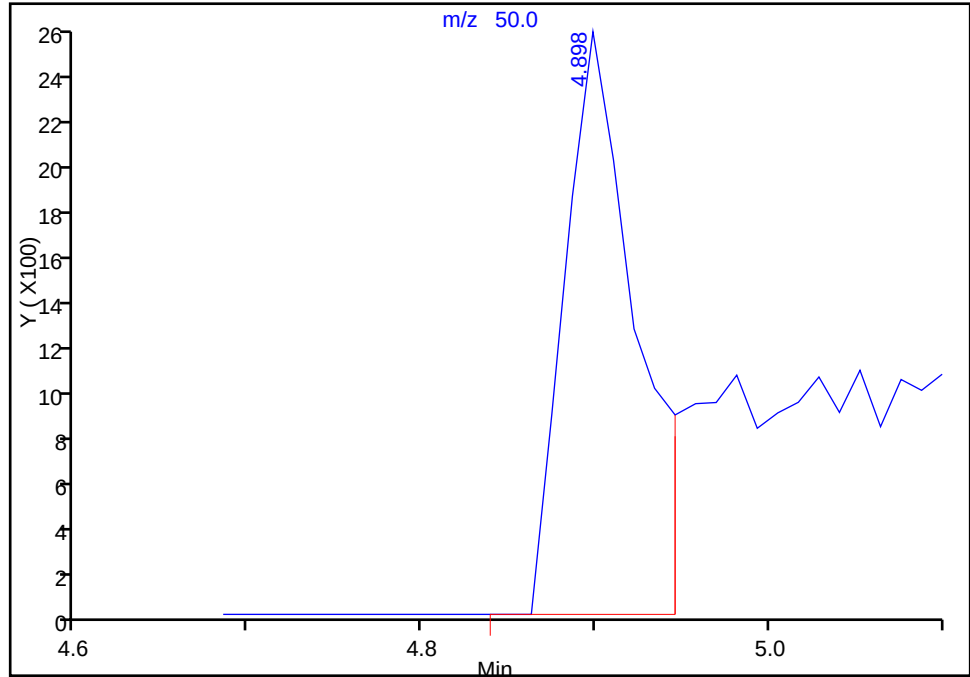
Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

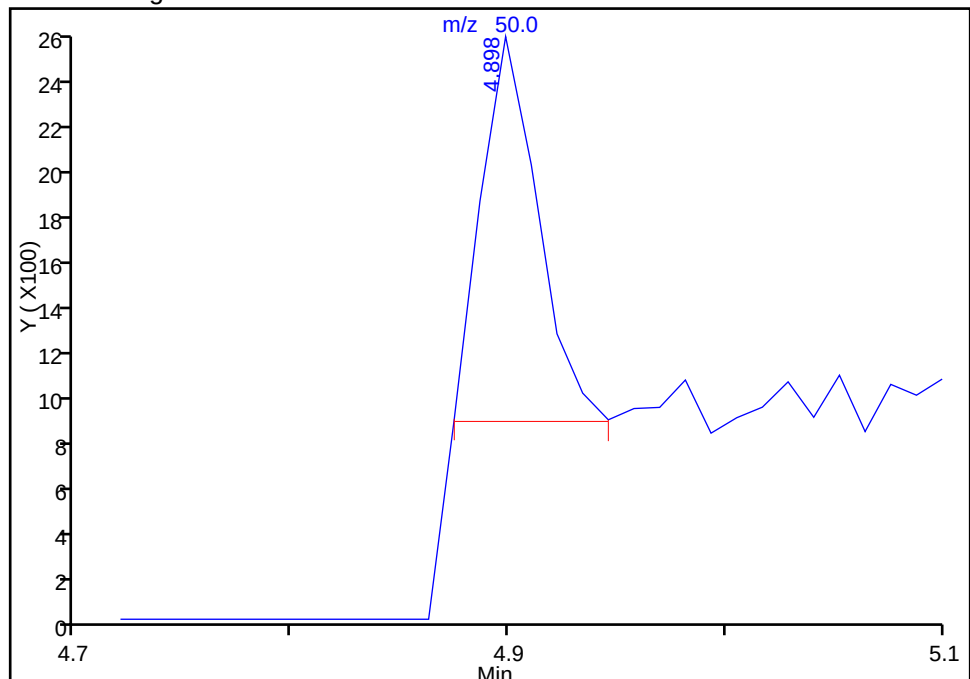
RT: 4.90
Area: 7319
Amount: 0.745834
Amount Units: ug/L

Processing Integration Results



RT: 4.90
Area: 3037
Amount: 0.352679
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:09:06

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4689.D

Injection Date: 19-Jun-2017 15:19:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#: 16 Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

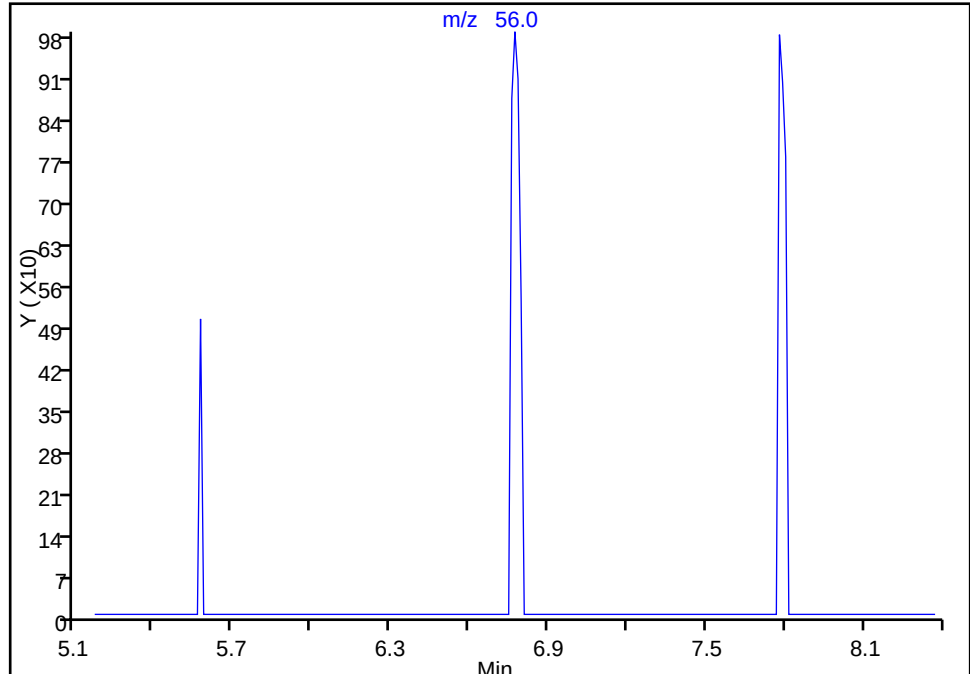
20 Acrolein, CAS: 107-02-8

Signal: 1

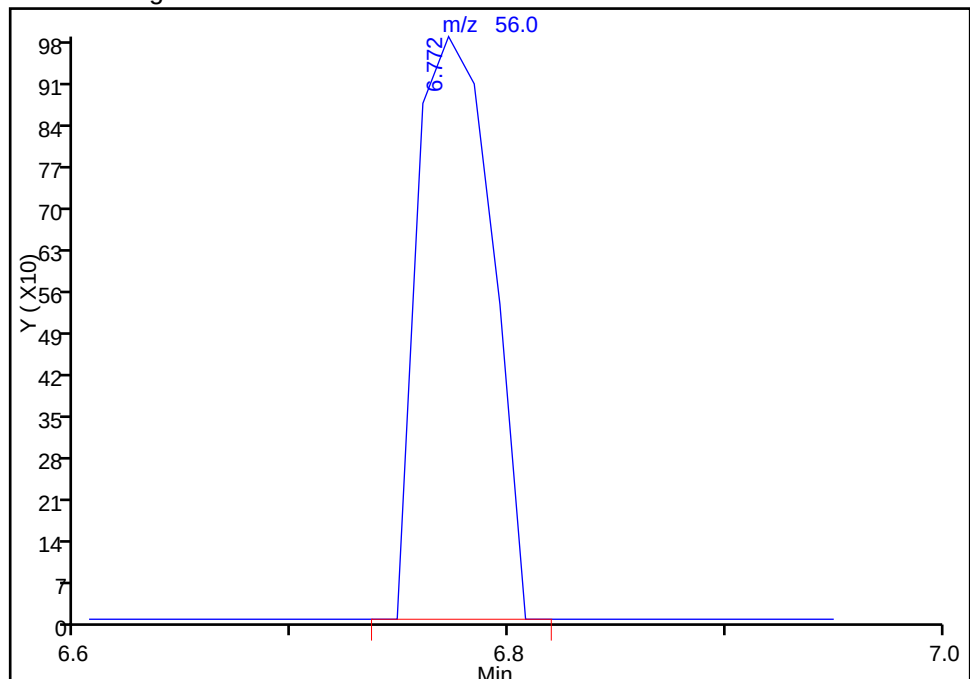
Not Detected

Expected RT: 6.77

Processing Integration Results



Manual Integration Results



RT: 6.77

Area: 2347

Amount: 1.523975

Amount Units: ug/L

Reviewer: reiler, 19-Jun-2017 19:09:16

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4689.D

Injection Date: 19-Jun-2017 15:19:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#: 16

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

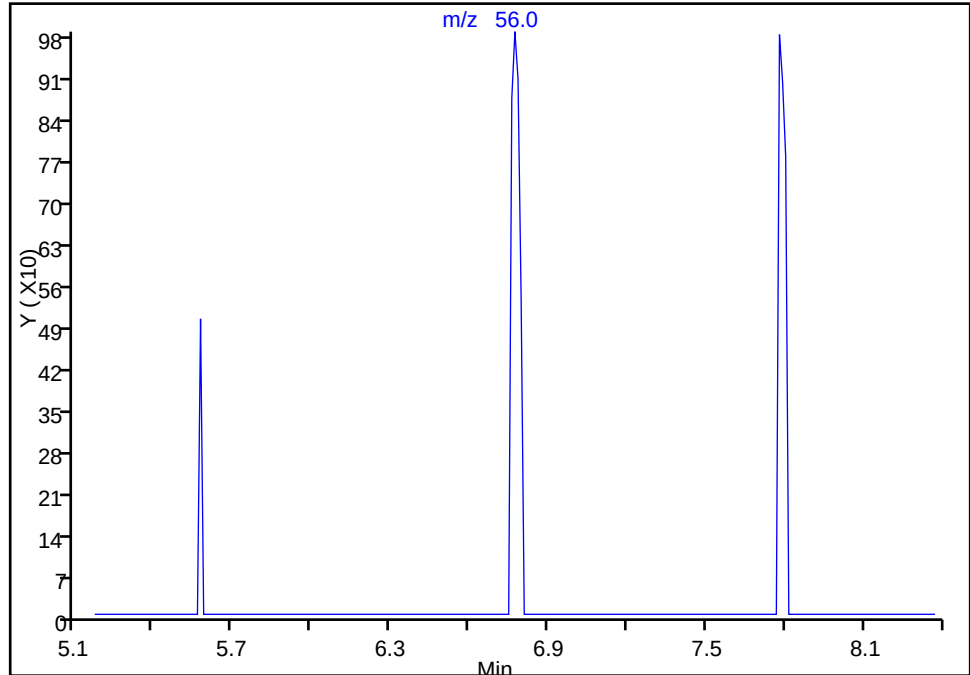
20 Acrolein, CAS: 107-02-8

Signal: 1

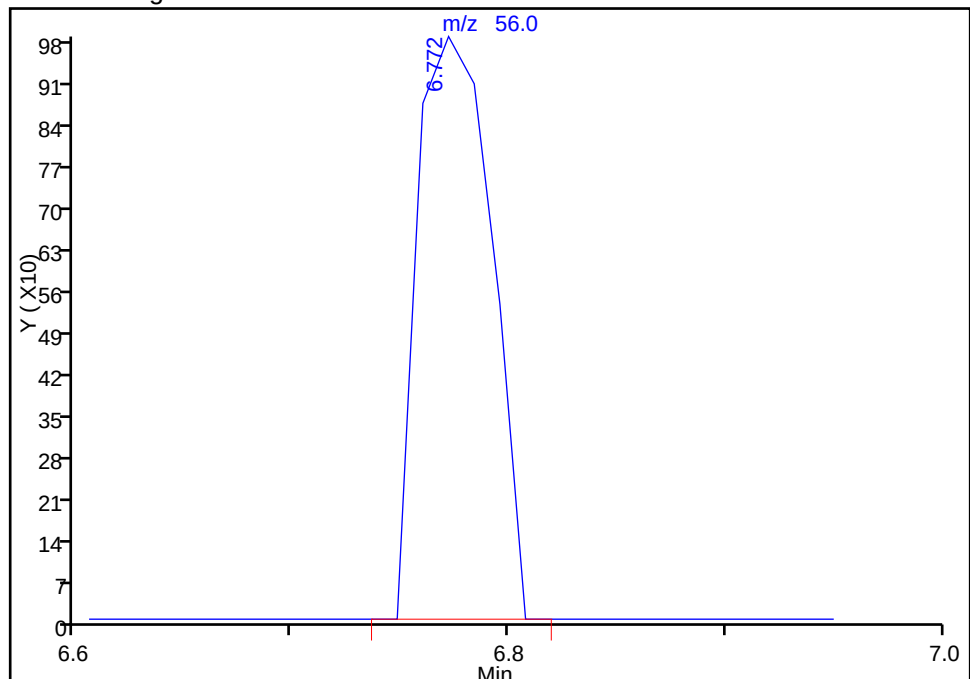
Not Detected

Expected RT: 6.77

Processing Integration Results



Manual Integration Results



RT: 6.77

Area: 2347

Amount: 1.523975

Amount Units: ug/L

Reviewer: reiler, 19-Jun-2017 19:09:20

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

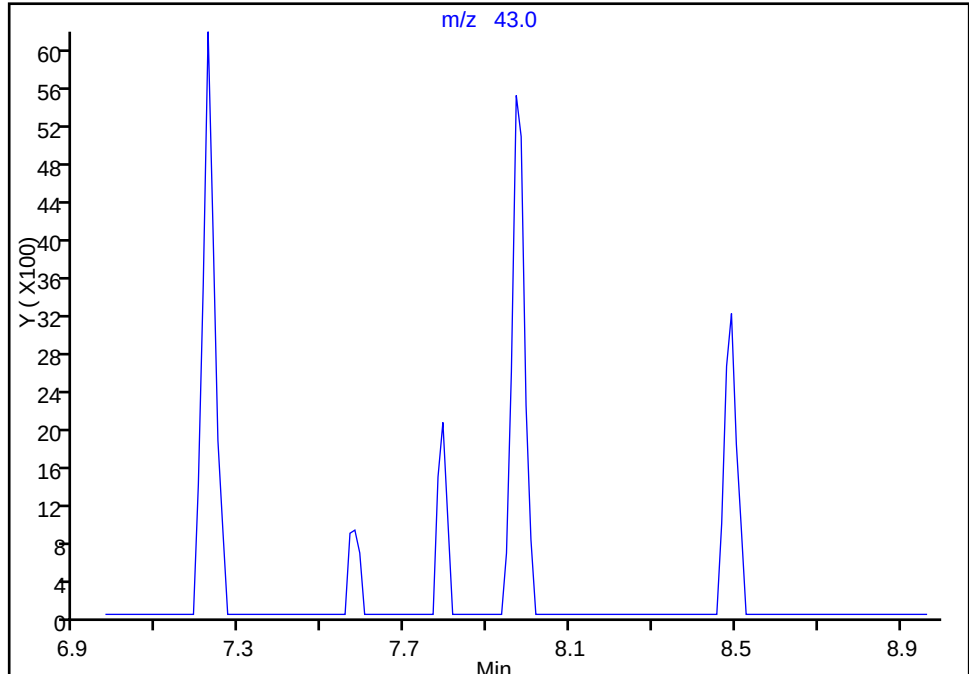
Data File:	\\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4689.D		
Injection Date:	19-Jun-2017 15:19:30	Instrument ID:	HP5973C
Lims ID:	IC 0.4		
Client ID:			
Operator ID:	LH	ALS Bottle#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	C-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	8

37 Vinyl acetate, CAS: 108-05-4

Signal: 1

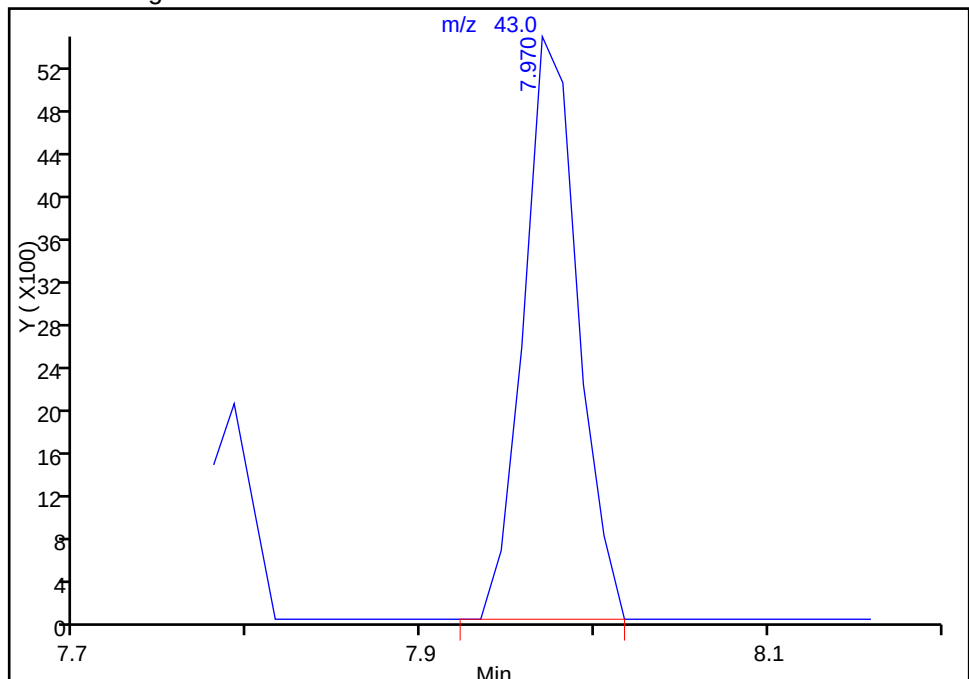
Not Detected
Expected RT: 7.97

Processing Integration Results



RT: 7.97
Area: 11908
Amount: 0.581227
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:09:33
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4689.D

Injection Date: 19-Jun-2017 15:19:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

16

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

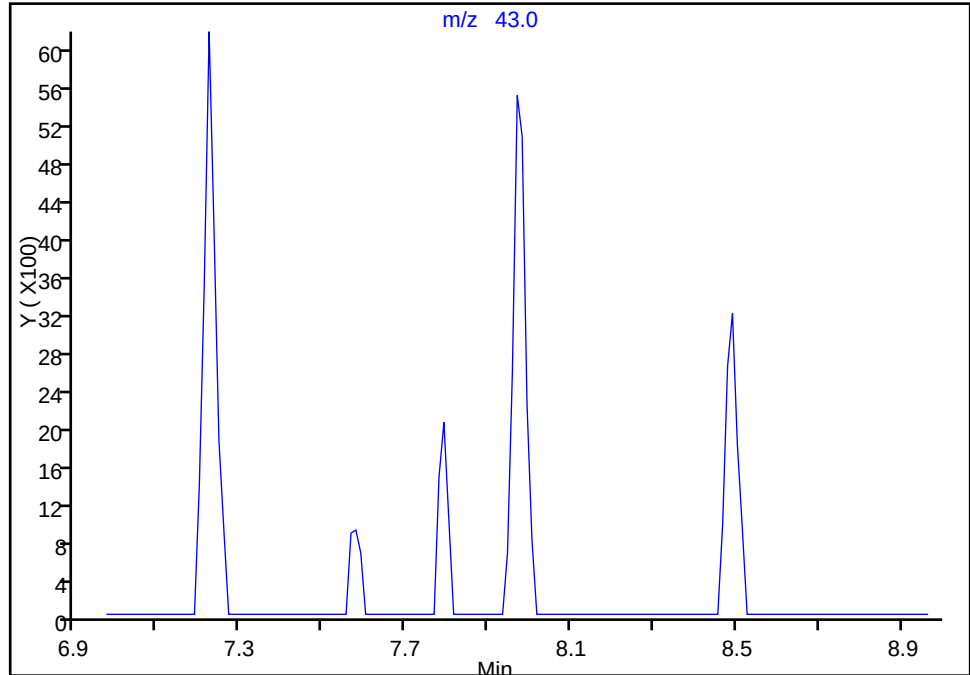
37 Vinyl acetate, CAS: 108-05-4

Signal: 1

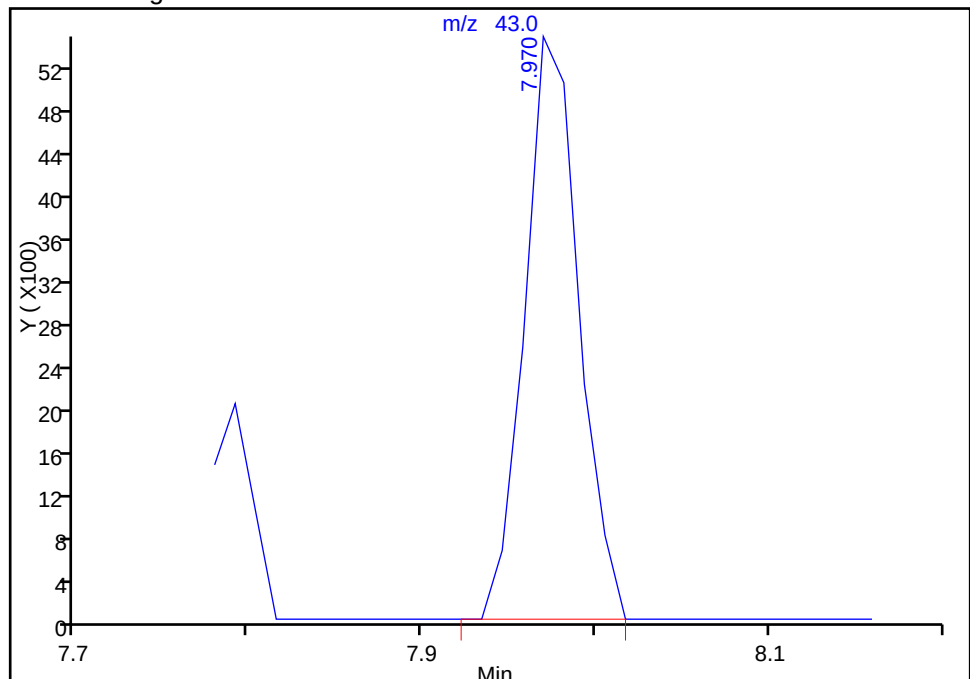
Not Detected

Expected RT: 7.97

Processing Integration Results



Manual Integration Results



RT: 7.97

Area: 11908

Amount: 0.581227

Amount Units: ug/L

Reviewer: reiler, 19-Jun-2017 19:09:35

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4689.D

Injection Date: 19-Jun-2017 15:19:30

Instrument ID: HP5973C

Lims ID: IC 0.4

Client ID:

Operator ID: LH

ALS Bottle#:

16

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

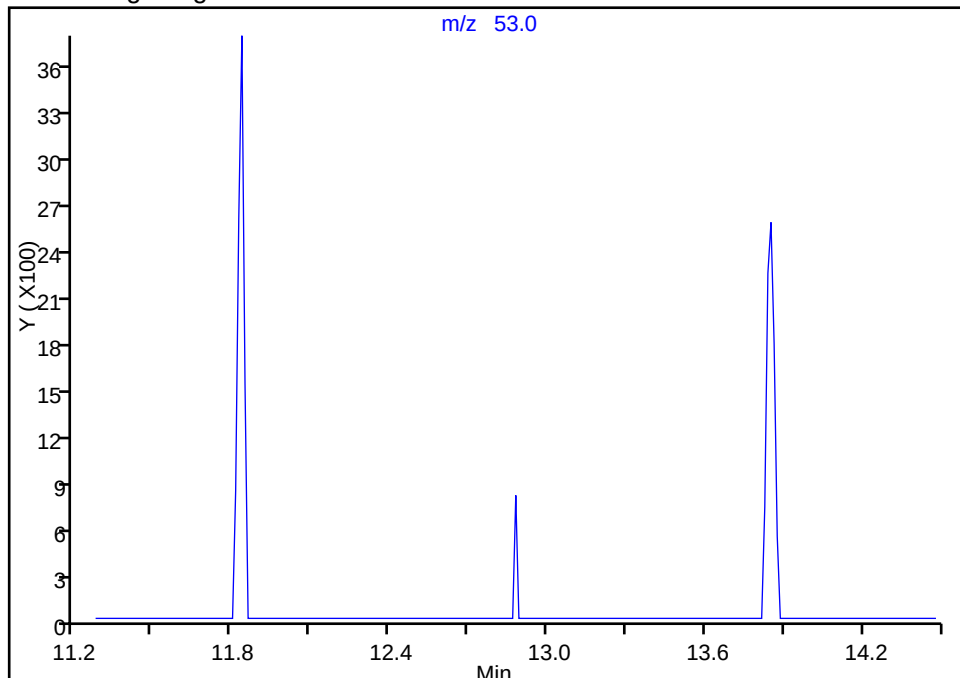
98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

Not Detected

Expected RT: 12.88

Processing Integration Results



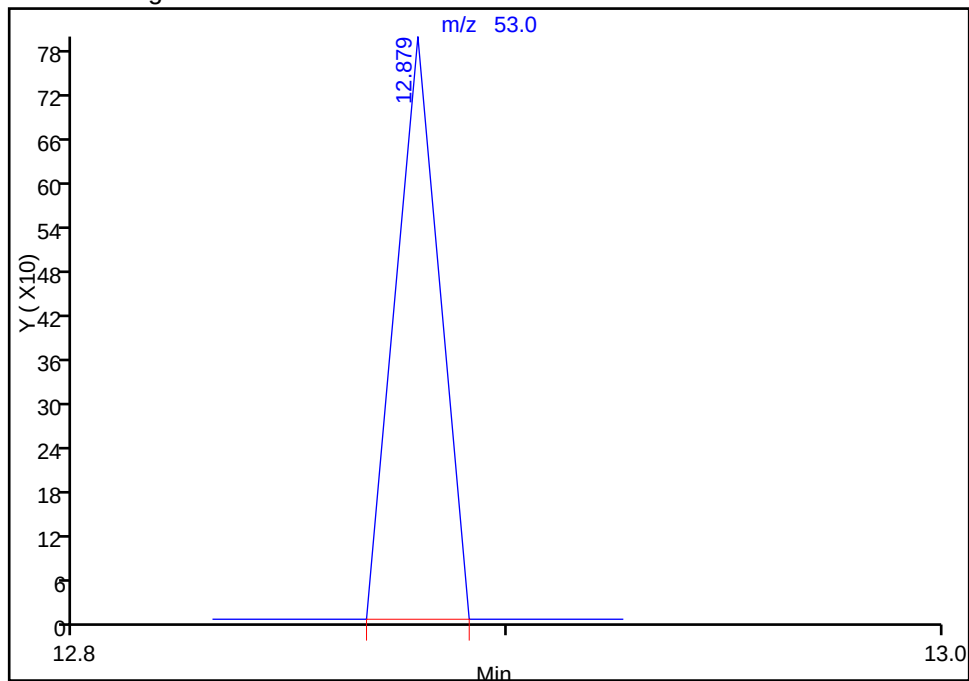
RT: 12.88

Area: 563

Amount: 0.162163

Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:10:20

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

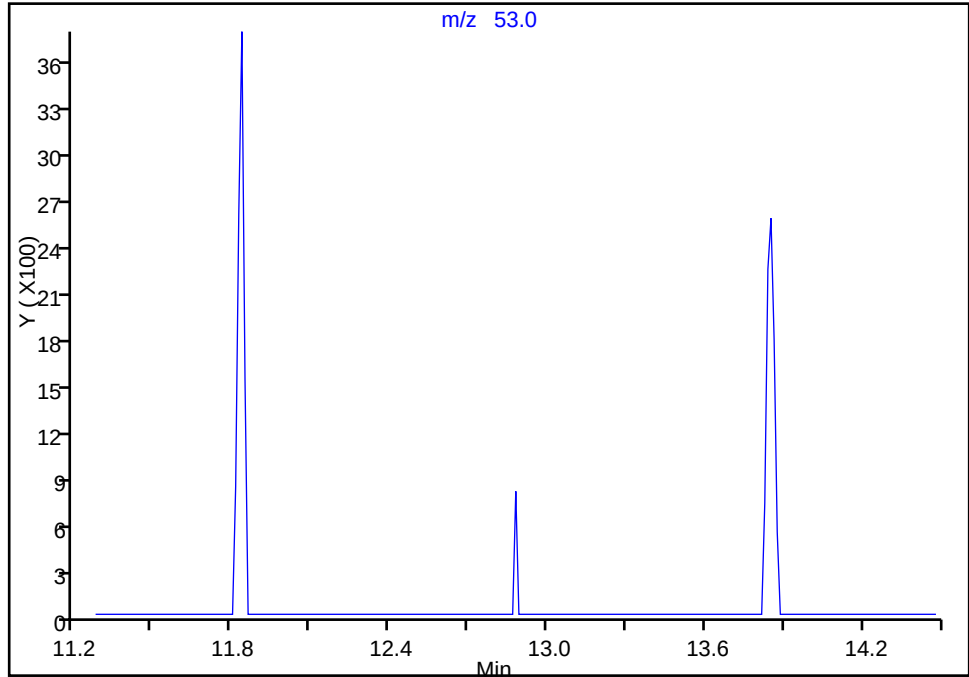
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4689.D
Injection Date: 19-Jun-2017 15:19:30 Instrument ID: HP5973C
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 16 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

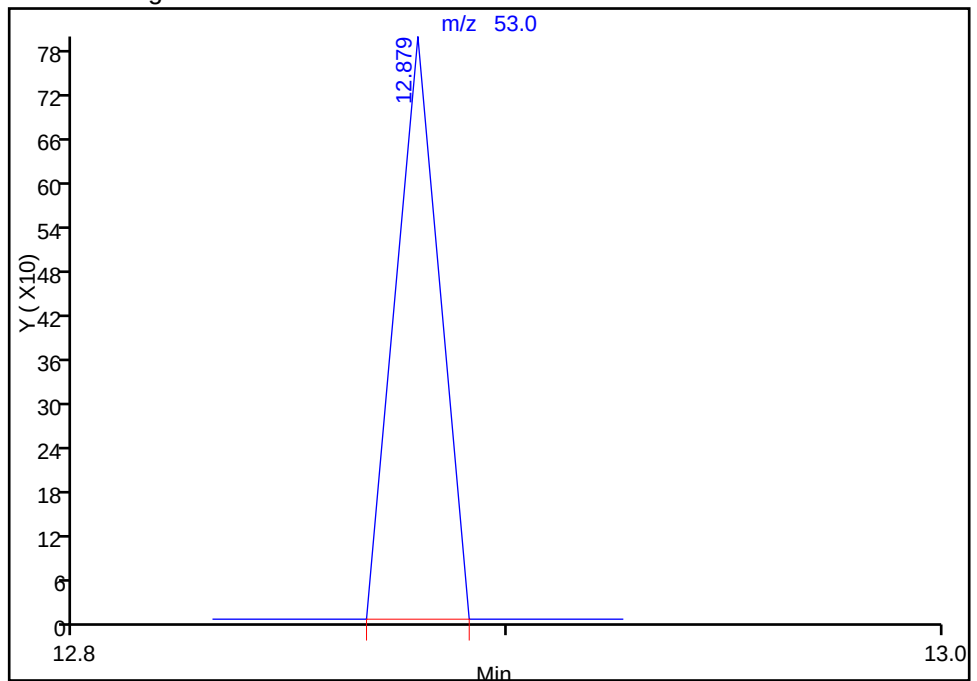
Signal: 1

Not Detected
Expected RT: 12.88

Processing Integration Results



Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:10:23

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4690.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 19-Jun-2017 15:44:30 ALS Bottle#: 17 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0063379-009
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Jun-2017 23:45:28 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: reiler

Date: 19-Jun-2017 18:11:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	130796	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.835	0.001	85	300488	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.851	0.001	94	320467	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	163094	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	100	96126	25.0	25.1	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	92	672297	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	97	239067	25.0	24.7	
10 Dichlorodifluoromethane	85	4.507	4.507	0.000	94	10034	1.00	0.8023	
12 Chloromethane	50	4.910	4.910	0.000	95	7346	1.00	0.8486	M
13 Vinyl chloride	62	5.148	5.147	0.001	94	7580	1.00	0.9707	
151 Butadiene	54	5.183	5.183	0.000	95	7220	1.00	1.00	
14 Bromomethane	94	5.740	5.752	-0.012	90	9830	1.00	1.06	
15 Chloroethane	64	5.883	5.882	0.001	98	7317	1.00	0.9350	
16 Dichlorofluoromethane	67	6.167	6.167	0.000	96	18143	1.00	0.9685	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	96	16256	1.00	0.9062	
18 Ethyl ether	59	6.547	6.547	0.000	91	9537	1.00	1.01	
20 Acrolein	56	6.772	6.772	0.000	1	7524	5.00	4.86	M
21 1,1,2-Trichloro-1,2,2-trif	101	6.820	6.819	0.001	87	11126	1.00	0.99	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	97	13118	1.00	1.17	
23 Acetone	43	6.926	6.914	0.012	99	15600	5.00	5.35	
25 Iodomethane	142	7.104	7.104	0.000	99	19938	1.00	1.01	
26 Carbon disulfide	76	7.199	7.199	0.000	100	39715	1.00	1.01	
27 Methyl acetate	43	7.223	7.222	0.001	98	40955	5.00	5.40	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	84	20785	1.00	1.12	
30 Methylene Chloride	84	7.389	7.389	0.000	94	13437	1.00	1.12	
31 2-Methyl-2-propanol	59	7.412	7.400	0.012	95	11478	10.0	10.1	
32 Methyl tert-butyl ether	73	7.578	7.566	0.012	98	30245	1.00	1.00	
33 Acrylonitrile	53	7.614	7.614	0.000	99	38677	10.0	10.4	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	97	13749	1.00	1.12	
35 Hexane	57	7.792	7.792	0.000	93	15404	1.00	0.9698	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.970	7.970	0.000	96	37488	2.00	1.82	
39 1,1-Dichloroethane	63	8.029	8.029	0.000	94	20358	1.00	1.02	
43 2-Butanone (MEK)	43	8.492	8.480	0.012	100	23649	5.00	5.00	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	65	15941	1.00	1.01	
45 cis-1,2-Dichloroethene	96	8.527	8.515	0.012	81	14739	1.00	1.09	
48 Chlorobromomethane	128	8.741	8.740	0.001	96	6803	1.00	1.03	
50 Chloroform	83	8.752	8.752	0.000	92	22063	1.00	1.08	
49 Tetrahydrofuran	42	8.776	8.764	0.012	90	8065	2.00	2.32	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	97	16792	1.00	0.9866	
52 Cyclohexane	56	8.990	8.989	0.001	93	19280	1.00	0.9342	
53 Isobutyl alcohol	43	9.002	9.001	0.001	86	14585	25.0	24.5	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	96	14835	1.00	0.99	
55 Carbon tetrachloride	117	9.073	9.072	0.001	97	14981	1.00	0.9651	
57 Benzene	78	9.251	9.238	0.013	93	48595	1.00	1.07	
58 1,2-Dichloroethane	62	9.251	9.250	0.001	96	17310	1.00	1.11	
59 n-Heptane	43	9.274	9.274	0.000	91	16307	1.00	1.06	
62 Trichloroethene	95	9.713	9.713	0.000	97	12440	1.00	1.03	
64 Methylcyclohexane	83	9.867	9.867	0.000	91	17694	1.00	0.9474	
65 1,2-Dichloropropane	63	9.926	9.914	0.012	93	11790	1.00	0.9891	
66 1,4-Dioxane	88	9.998	9.986	0.012	1	1793	20.0	15.4	M
67 Dibromomethane	93	10.045	10.045	0.000	92	7325	1.00	1.03	
68 Dichlorobromomethane	83	10.116	10.116	0.000	98	13185	1.00	0.9713	
69 2-Chloroethyl vinyl ether	63	10.247	10.235	0.012	91	5686	1.00	0.8723	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	98	16516	1.00	0.9390	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	96	47972	5.00	4.63	
74 Toluene	92	10.709	10.709	0.000	98	30129	1.00	0.9888	
75 Ethyl methacrylate	69	10.780	10.780	0.000	89	9862	1.00	0.8440	
77 trans-1,3-Dichloropropene	75	10.840	10.839	0.001	93	14702	1.00	0.9067	
79 1,1,2-Trichloroethane	83	11.017	11.029	-0.012	90	8254	1.00	0.9568	
80 2-Hexanone	43	11.112	11.112	0.000	96	32744	5.00	4.50	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	15011	1.00	1.06	
82 1,3-Dichloropropane	76	11.172	11.171	0.001	92	18485	1.00	1.00	
83 Chlorodibromomethane	129	11.385	11.385	0.000	86	10004	1.00	0.9109	
84 Ethylene Dibromide	107	11.527	11.527	0.000	94	11296	1.00	1.04	
87 Chlorobenzene	112	11.859	11.859	0.000	96	37426	1.00	1.02	
88 Ethylbenzene	91	11.871	11.871	0.000	96	61514	1.00	1.04	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	92	11991	1.00	0.9631	
90 m-Xylene & p-Xylene	106	11.954	11.954	0.000	97	22530	1.00	0.9559	
91 o-Xylene	106	12.298	12.298	0.000	93	22952	1.00	0.9813	
92 Styrene	104	12.310	12.310	0.000	91	32198	1.00	0.8942	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	57900	1.00	0.9806	
95 Bromoform	173	12.583	12.583	0.000	92	5615	1.00	0.8579	
97 1,1,2,2-Tetrachloroethane	83	12.844	12.855	-0.011	94	13867	1.00	1.01	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	80	2931	1.00	0.8159	
99 N-Propylbenzene	91	12.927	12.926	0.001	99	69571	1.00	1.00	
100 1,2,3-Trichloropropane	110	12.927	12.938	-0.011	83	5012	1.00	1.11	
101 Bromobenzene	156	12.974	12.974	0.000	89	15477	1.00	0.9589	
102 1,3,5-Trimethylbenzene	105	13.033	13.045	-0.012	94	47643	1.00	0.9739	
103 2-Chlorotoluene	126	13.093	13.092	0.001	97	14202	1.00	0.9693	
105 4-Chlorotoluene	126	13.176	13.175	0.001	97	15896	1.00	1.03	
106 tert-Butylbenzene	134	13.377	13.377	0.000	92	12418	1.00	1.06	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	94	49375	1.00	0.9696	

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	13.567	13.567	0.000	93	59118	1.00	0.9506	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	49775	1.00	0.9359	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	97	32253	1.00	1.02	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	96	33251	1.00	1.03	
115 n-Butylbenzene	91	14.089	14.089	0.000	97	46799	1.00	1.00	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	98	30922	1.00	1.02	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	83	1958	1.00	0.8967	M
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	92	21714	1.00	1.01	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	91	6895	1.00	0.9179	
121 Naphthalene	128	16.650	16.650	0.000	97	48559	1.00	0.9570	
122 1,2,3-Trichlorobenzene	180	17.030	17.029	0.001	94	19138	1.00	0.9826	
S 125 1,2-Dichloroethene, Total	1				0			2.21	
S 126 1,3-Dichloropropene, Total	1				0			1.85	
S 123 Total BTEX	1				0			5.03	
S 124 Xylenes, Total	1				0			1.94	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00100

Amount Added: 1.00

Units: uL

GAS CORP mix_00225

Amount Added: 1.00

Units: uL

C_8260_IS_00089

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00098

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4690.D

Injection Date: 19-Jun-2017 15:44:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

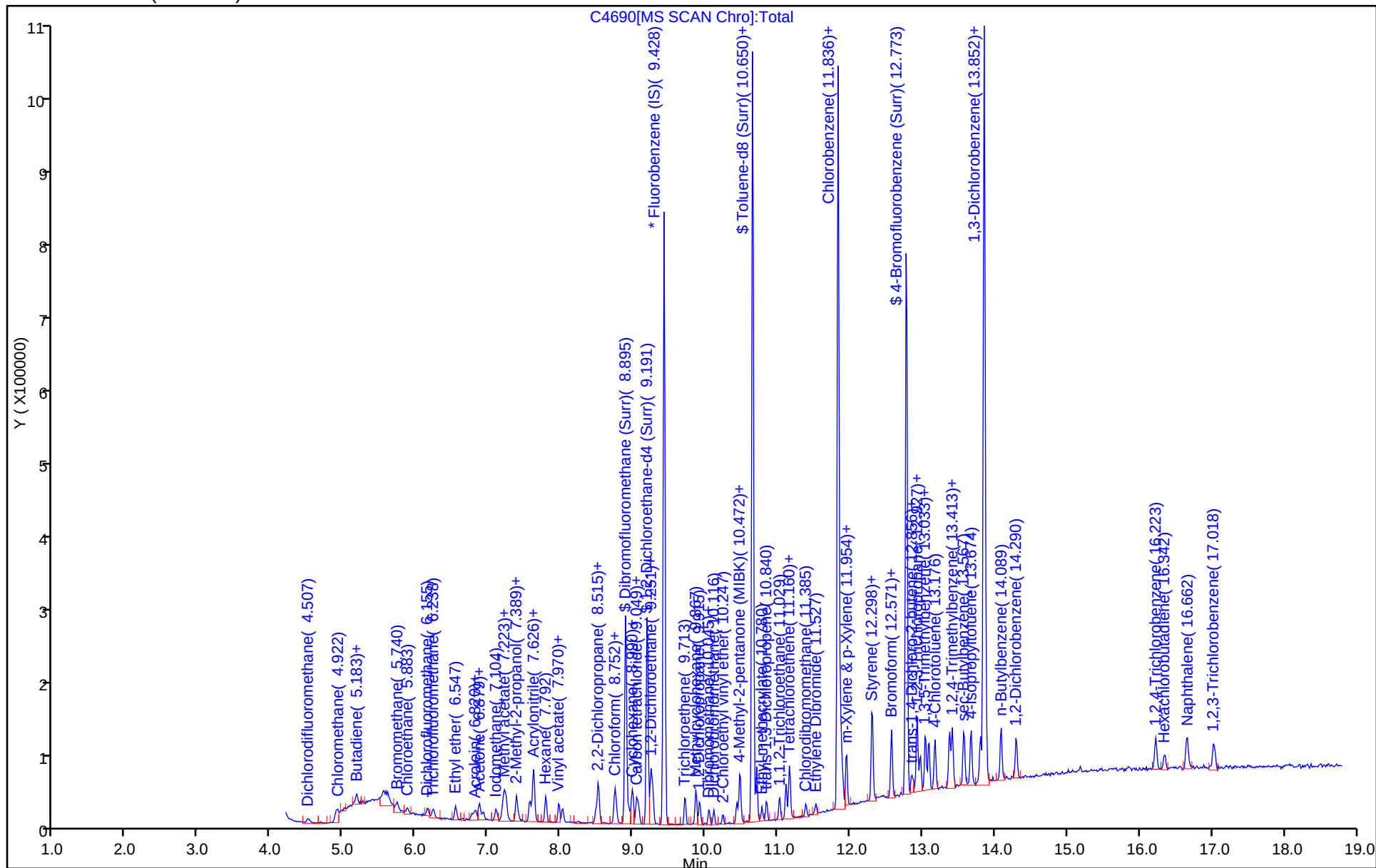
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4690.D

Injection Date: 19-Jun-2017 15:44:30

Instrument ID: HP5973C

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#: 17 Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

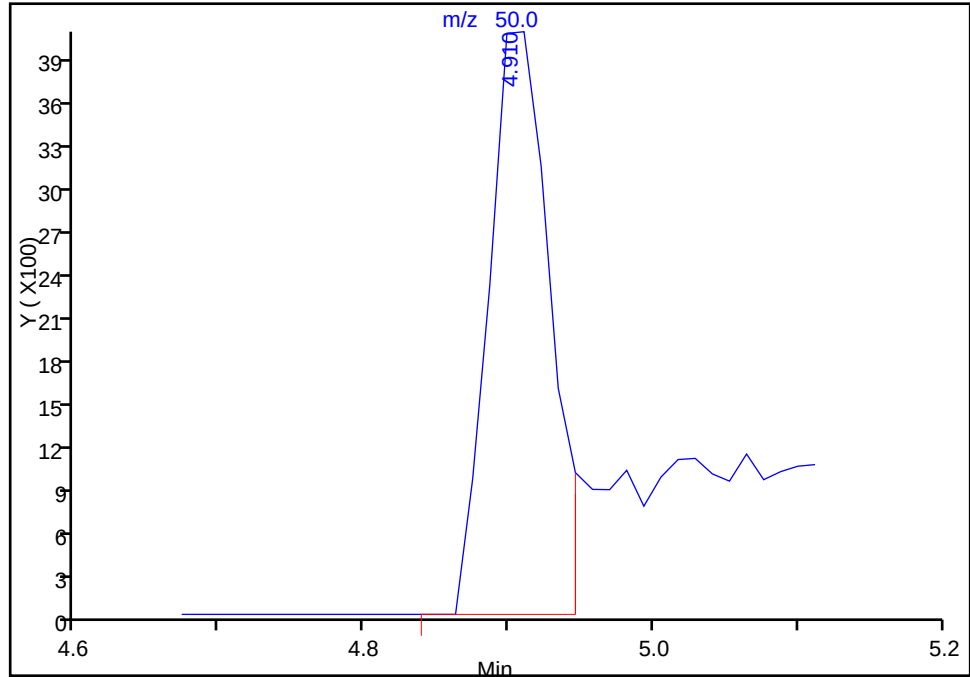
Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

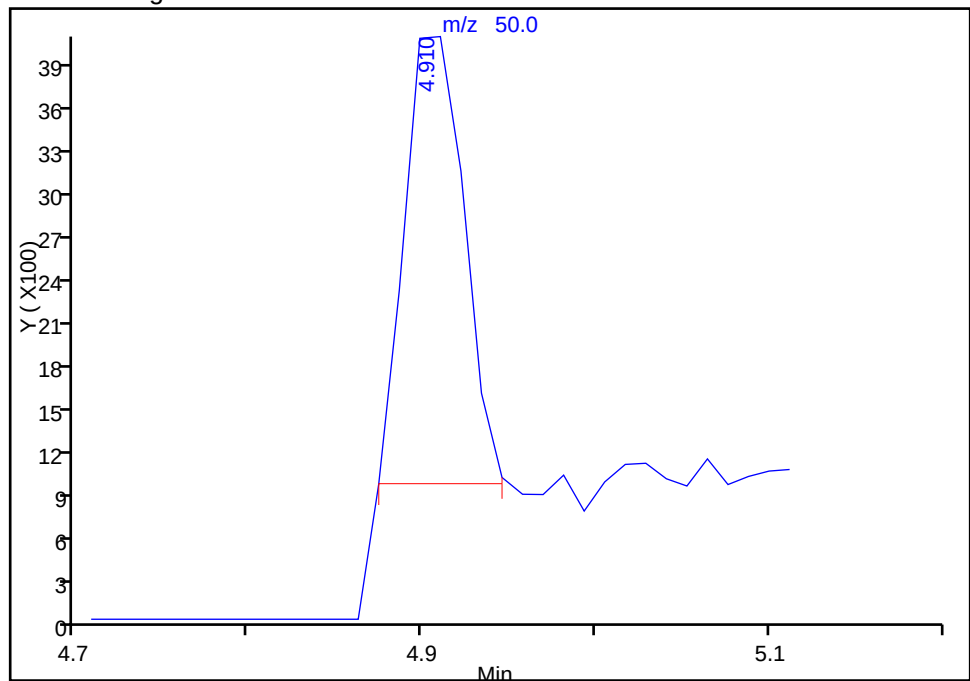
RT: 4.91
Area: 12008
Amount: 1.252659
Amount Units: ug/L

Processing Integration Results



RT: 4.91
Area: 7346
Amount: 0.848584
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:38:49

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

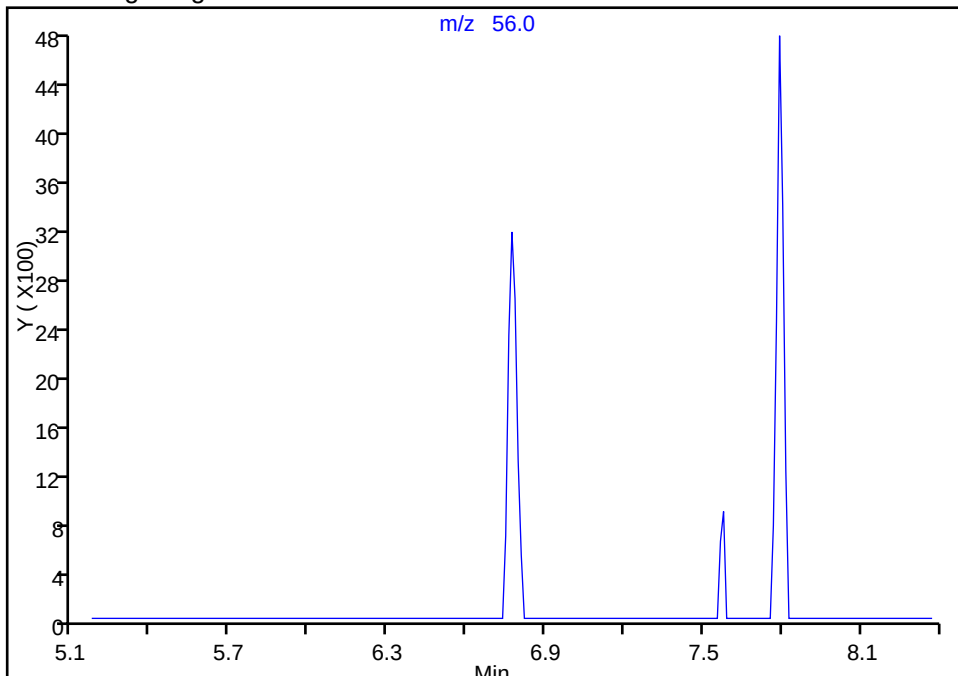
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4690.D
Injection Date: 19-Jun-2017 15:44:30 Instrument ID: HP5973C
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 17 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

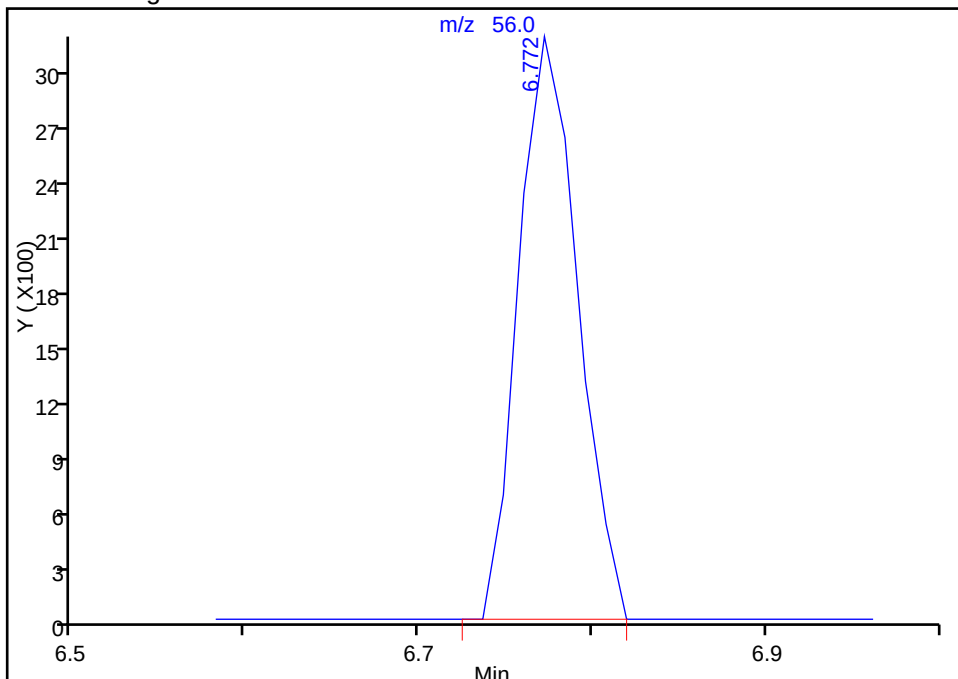
Not Detected
Expected RT: 6.77

Processing Integration Results



RT: 6.77
Area: 7524
Amount: 4.859854
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:38:55
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography
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07/03/2017

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4690.D

Injection Date: 19-Jun-2017 15:44:30

Instrument ID: HP5973C

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#:

17

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

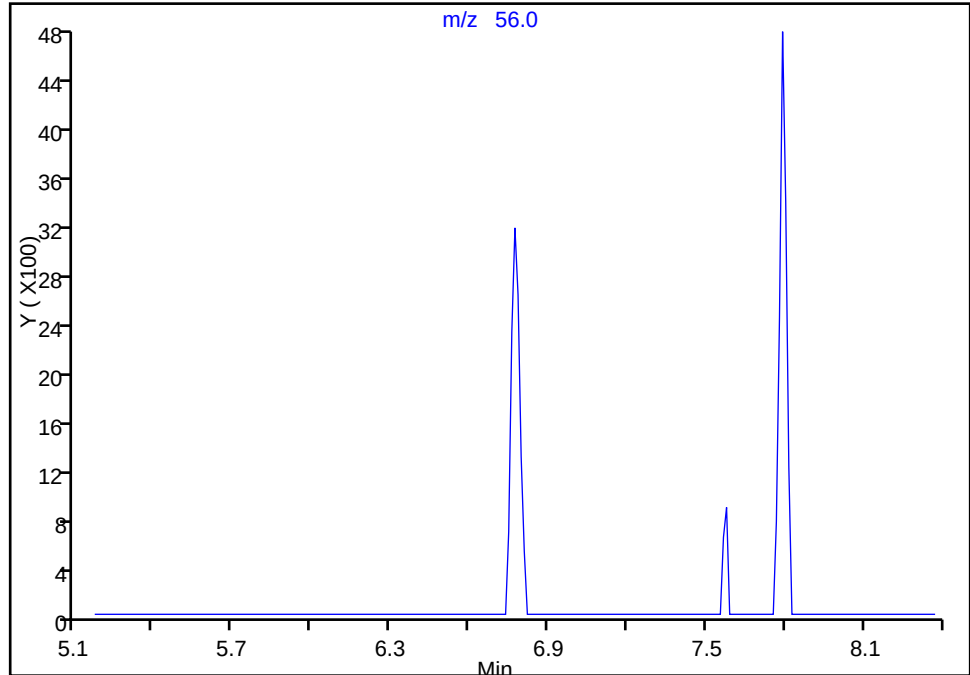
20 Acrolein, CAS: 107-02-8

Signal: 1

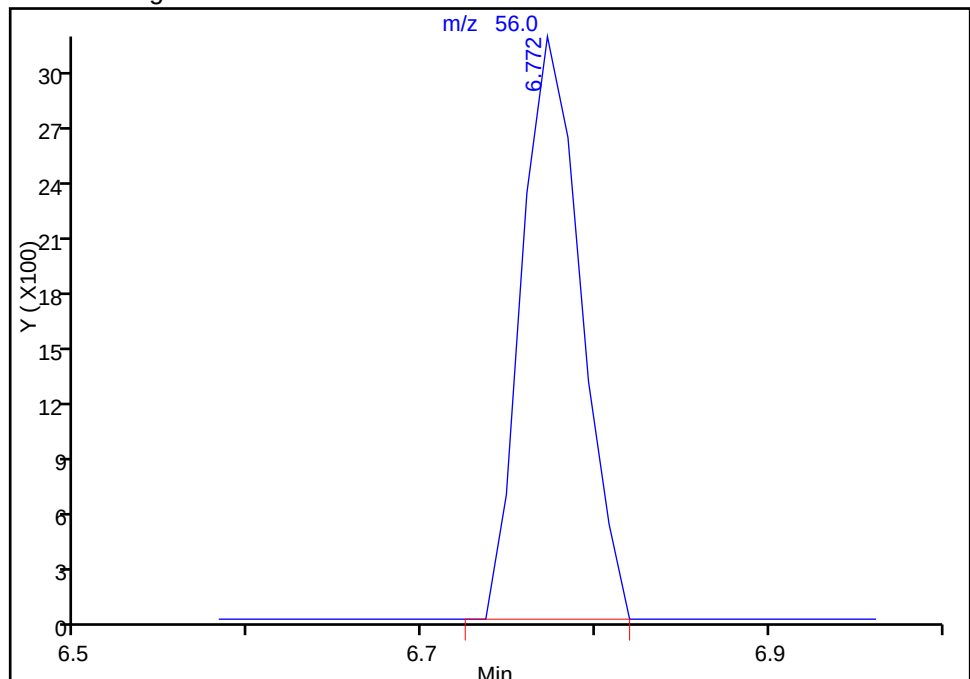
Not Detected

Expected RT: 6.77

Processing Integration Results



Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:39:01

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

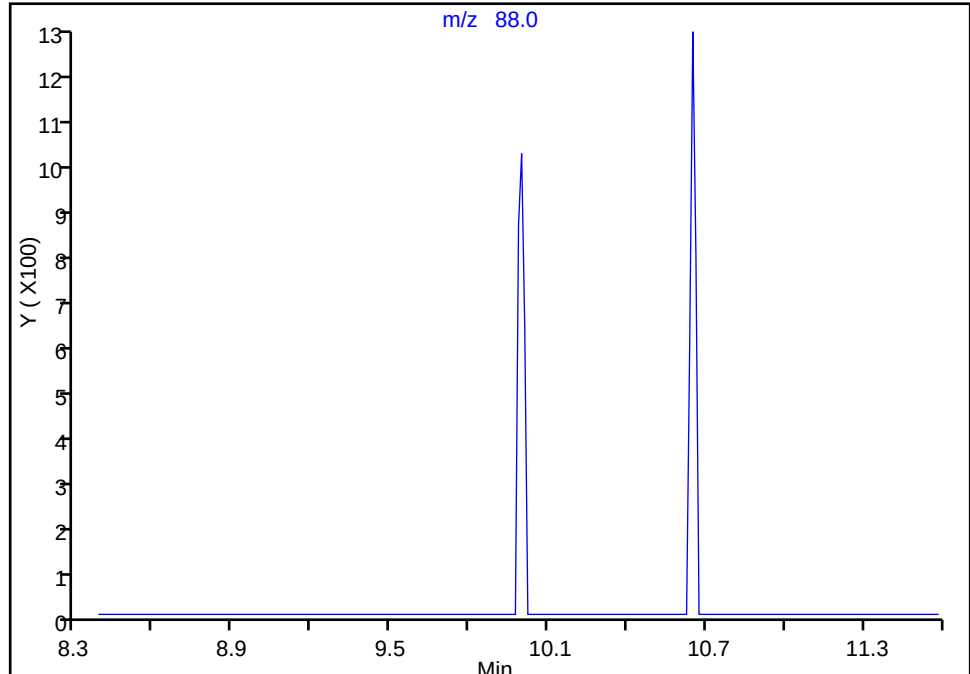
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Injection Date:	19-Jun-2017 15:44:30	Instrument ID:	HP5973C
Lims ID:	IC		
Client ID:			
Operator ID:	LH	ALS Bottle#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	C-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	9

66 1,4-Dioxane, CAS: 123-91-1

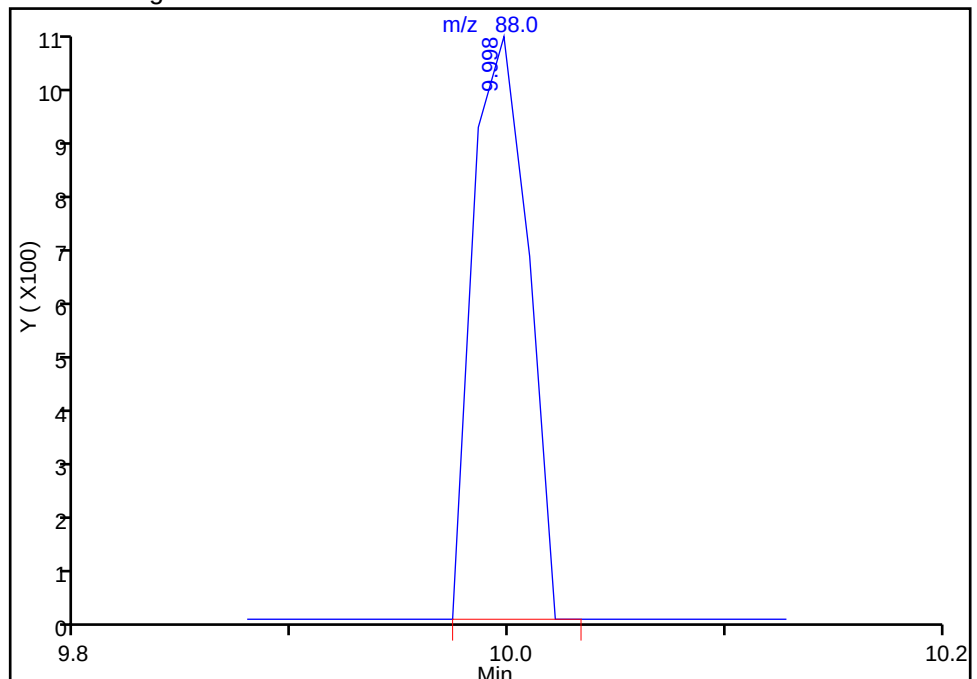
Signal: 1

Not Detected
Expected RT: 9.99

Processing Integration Results

RT: 10.00
Area: 1793
Amount: 15.430132
Amount Units: ug/L

Manual Integration Results

Reviewer: reiler, 19-Jun-2017 19:39:12
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

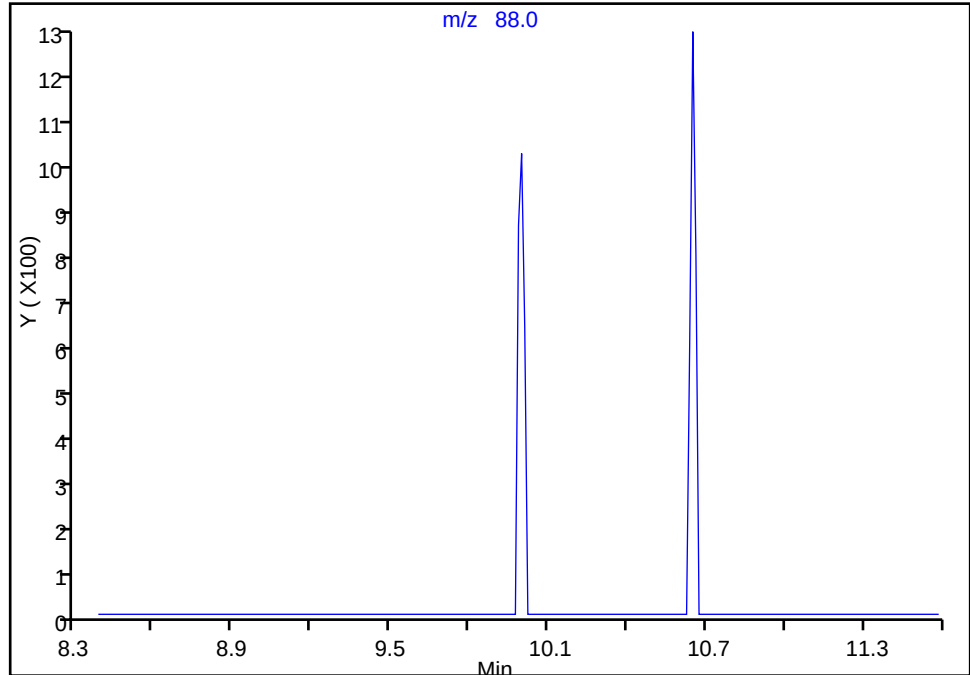
Data File:	\\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4690.D		
Injection Date:	19-Jun-2017 15:44:30	Instrument ID:	HP5973C
Lims ID:	IC		
Client ID:			
Operator ID:	LH	ALS Bottle#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	C-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	9

66 1,4-Dioxane, CAS: 123-91-1

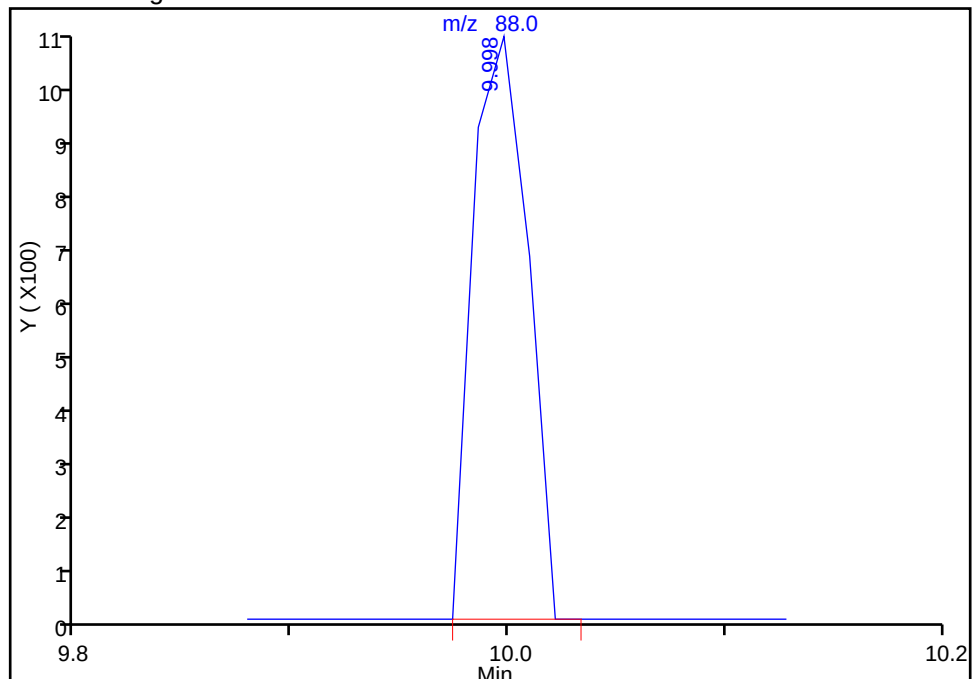
Signal: 1

Not Detected
Expected RT: 9.99

Processing Integration Results



Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:39:14

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

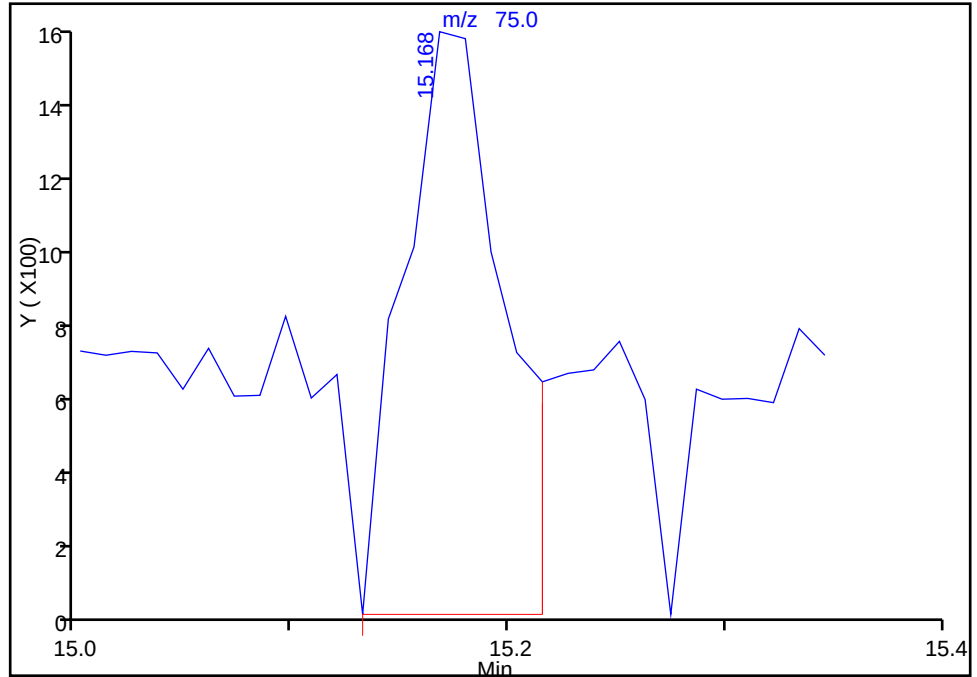
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Injection Date:	19-Jun-2017 15:44:30	Instrument ID:	HP5973C
Lims ID:	IC		
Client ID:			
Operator ID:	LH	ALS Bottle#:	17 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	C-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

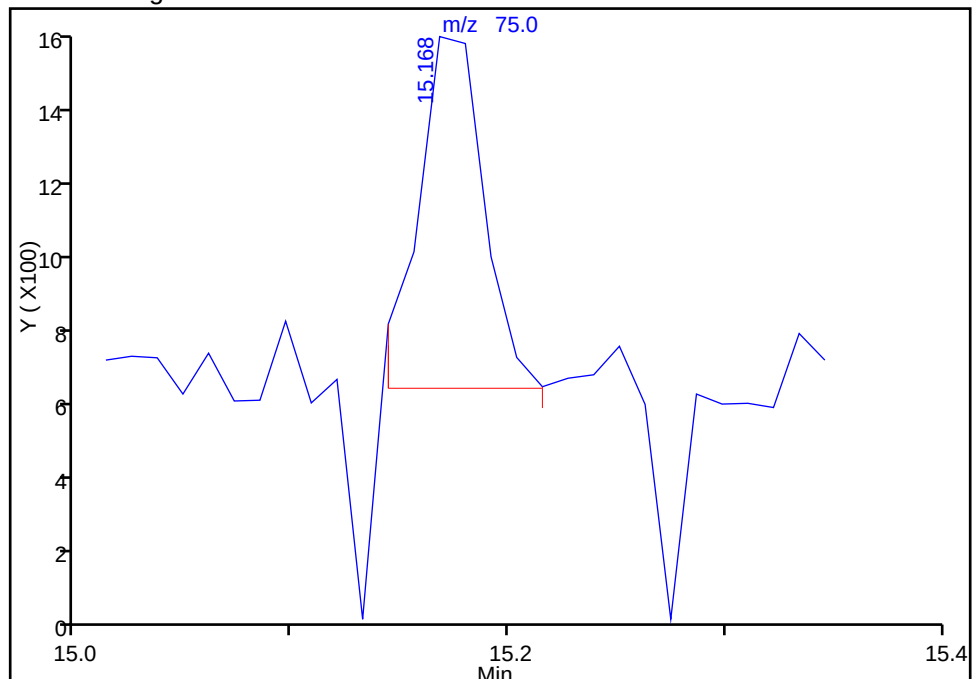
RT: 15.17
Area: 4942
Amount: 1.970115
Amount Units: ug/L

Processing Integration Results



RT: 15.17
Area: 1958
Amount: 0.896688
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:40:33
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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07/03/2017

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4691.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 19-Jun-2017 16:10:30 ALS Bottle#: 18 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0063379-010
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Jun-2017 23:45:31 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: reiler

Date: 19-Jun-2017 18:14:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	130423	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.835	0.001	84	292402	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.851	0.001	94	312729	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	160291	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	97797	25.0	25.6	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	92	661629	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	91	235776	25.0	25.0	
10 Dichlorodifluoromethane	85	4.507	4.507	0.000	98	24220	2.00	1.94	
12 Chloromethane	50	4.898	4.910	-0.012	98	17603	2.00	2.04	M
13 Vinyl chloride	62	5.147	5.147	0.000	97	15521	2.00	1.99	
151 Butadiene	54	5.183	5.183	0.000	96	14168	2.00	1.98	
14 Bromomethane	94	5.740	5.752	-0.012	92	17818	2.00	1.92	
15 Chloroethane	64	5.883	5.882	0.001	99	15778	2.00	2.02	
16 Dichlorofluoromethane	67	6.167	6.167	0.000	97	36755	2.00	1.97	
17 Trichlorofluoromethane	101	6.227	6.238	-0.011	98	34289	2.00	1.92	
18 Ethyl ether	59	6.547	6.547	0.000	94	17429	2.00	1.85	
20 Acrolein	56	6.772	6.772	0.000	1	13686	10.0	8.87	M
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	93	21738	2.00	1.95	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	22188	2.00	1.99	
23 Acetone	43	6.926	6.914	0.012	100	28171	10.0	9.69	
25 Iodomethane	142	7.104	7.104	0.000	99	37158	2.00	1.88	
26 Carbon disulfide	76	7.199	7.199	0.000	100	71615	2.00	1.83	
27 Methyl acetate	43	7.223	7.222	0.001	98	74264	10.0	9.81	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	81	35139	2.00	1.90	
30 Methylene Chloride	84	7.389	7.389	0.000	93	23501	2.00	1.97	
31 2-Methyl-2-propanol	59	7.401	7.400	0.001	97	20412	20.0	18.0	
32 Methyl tert-butyl ether	73	7.578	7.566	0.012	97	55371	2.00	1.84	
33 Acrylonitrile	53	7.614	7.614	0.000	98	72283	20.0	19.5	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	98	24804	2.00	2.03	
35 Hexane	57	7.792	7.792	0.000	92	30841	2.00	1.95	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.970	7.970	0.000	97	70819	4.00	3.45	
39 1,1-Dichloroethane	63	8.017	8.029	-0.012	96	37758	2.00	1.90	
43 2-Butanone (MEK)	43	8.480	8.480	0.000	100	43278	10.0	9.18	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	81	25593	2.00	1.90	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	65	30613	2.00	1.95	
48 Chlorobromomethane	128	8.741	8.740	0.001	95	12211	2.00	1.86	
50 Chloroform	83	8.752	8.752	0.000	94	40464	2.00	1.98	
49 Tetrahydrofuran	42	8.764	8.764	0.000	91	13518	4.00	3.91	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	31704	2.00	1.87	
52 Cyclohexane	56	8.990	8.989	0.001	94	39949	2.00	1.94	
53 Isobutyl alcohol	43	9.001	9.001	0.000	92	27095	50.0	45.7	M
54 1,1-Dichloropropene	75	9.049	9.049	0.000	96	27544	2.00	1.84	
55 Carbon tetrachloride	117	9.073	9.072	0.001	96	29061	2.00	1.88	
57 Benzene	78	9.239	9.238	0.001	94	88528	2.00	1.95	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	96	30260	2.00	1.94	
59 n-Heptane	43	9.274	9.274	0.000	92	27527	2.00	1.80	
62 Trichloroethene	95	9.713	9.713	0.000	96	22669	2.00	1.89	
64 Methylcyclohexane	83	9.867	9.867	0.000	89	33655	2.00	1.81	
65 1,2-Dichloropropane	63	9.915	9.914	0.001	94	22390	2.00	1.88	
66 1,4-Dioxane	88	9.998	9.986	0.012	1	4103	40.0	36.3	M
67 Dibromomethane	93	10.045	10.045	0.000	94	13098	2.00	1.84	
68 Dichlorobromomethane	83	10.116	10.116	0.000	98	24301	2.00	1.80	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	94	10234	2.00	1.57	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	98	30699	2.00	1.75	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	96	89436	10.0	8.88	
74 Toluene	92	10.709	10.709	0.000	98	57170	2.00	1.93	
75 Ethyl methacrylate	69	10.780	10.780	0.000	91	17839	2.00	1.57	
77 trans-1,3-Dichloropropene	75	10.840	10.839	0.001	92	27516	2.00	1.74	
79 1,1,2-Trichloroethane	83	11.017	11.029	-0.012	92	15971	2.00	1.90	
80 2-Hexanone	43	11.112	11.112	0.000	97	61756	10.0	8.71	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	26191	2.00	1.90	
82 1,3-Dichloropropane	76	11.172	11.171	0.001	93	34217	2.00	1.91	
83 Chlorodibromomethane	129	11.385	11.385	0.000	91	17958	2.00	1.68	
84 Ethylene Dibromide	107	11.527	11.527	0.000	98	19156	2.00	1.81	
87 Chlorobenzene	112	11.859	11.859	0.000	94	68463	2.00	1.92	
88 Ethylbenzene	91	11.871	11.871	0.000	96	113129	2.00	1.97	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	96	22725	2.00	1.88	
90 m-Xylene & p-Xylene	106	11.954	11.954	0.000	99	42445	2.00	1.85	
91 o-Xylene	106	12.298	12.298	0.000	95	42777	2.00	1.88	
92 Styrene	104	12.310	12.310	0.000	94	61017	2.00	1.74	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	109512	2.00	1.90	
95 Bromoform	173	12.583	12.583	0.000	97	10831	2.00	1.70	
97 1,1,2,2-Tetrachloroethane	83	12.855	12.855	0.000	95	25811	2.00	1.93	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	82	5982	2.00	1.71	
99 N-Propylbenzene	91	12.927	12.926	0.001	99	127978	2.00	1.89	
100 1,2,3-Trichloropropane	110	12.927	12.938	-0.011	84	8034	2.00	1.82	
101 Bromobenzene	156	12.974	12.974	0.000	90	30169	2.00	1.92	
102 1,3,5-Trimethylbenzene	105	13.033	13.045	-0.012	94	89463	2.00	1.87	
103 2-Chlorotoluene	126	13.093	13.092	0.001	97	26883	2.00	1.88	
105 4-Chlorotoluene	126	13.176	13.175	0.001	97	28366	2.00	1.88	
106 tert-Butylbenzene	134	13.377	13.377	0.000	92	21370	2.00	1.87	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	94	92416	2.00	1.86	

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	13.567	13.567	0.000	94	113325	2.00	1.87	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	94638	2.00	1.82	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	96	59425	2.00	1.93	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	94	60071	2.00	1.91	
115 n-Butylbenzene	91	14.089	14.089	0.000	98	84433	2.00	1.85	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	98	55424	2.00	1.87	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	87	4237	2.00	1.99	M
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	93	39189	2.00	1.86	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	95	13088	2.00	1.79	
121 Naphthalene	128	16.650	16.650	0.000	97	88388	2.00	1.79	
122 1,2,3-Trichlorobenzene	180	17.030	17.029	0.001	94	34638	2.00	1.82	
S 123 Total BTEX	1				0			9.58	
S 124 Xylenes, Total	1				0			3.73	
S 125 1,2-Dichloroethene, Total	1				0			3.93	
S 126 1,3-Dichloropropene, Total	1				0			3.49	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00100

Amount Added: 2.00

Units: uL

GAS CORP mix_00225

Amount Added: 2.00

Units: uL

C_8260_IS_00089

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00098

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 19-Jun-2017 23:45:33

Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170619-63379.b\\C4691.D

Injection Date: 19-Jun-2017 16:10:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 2

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

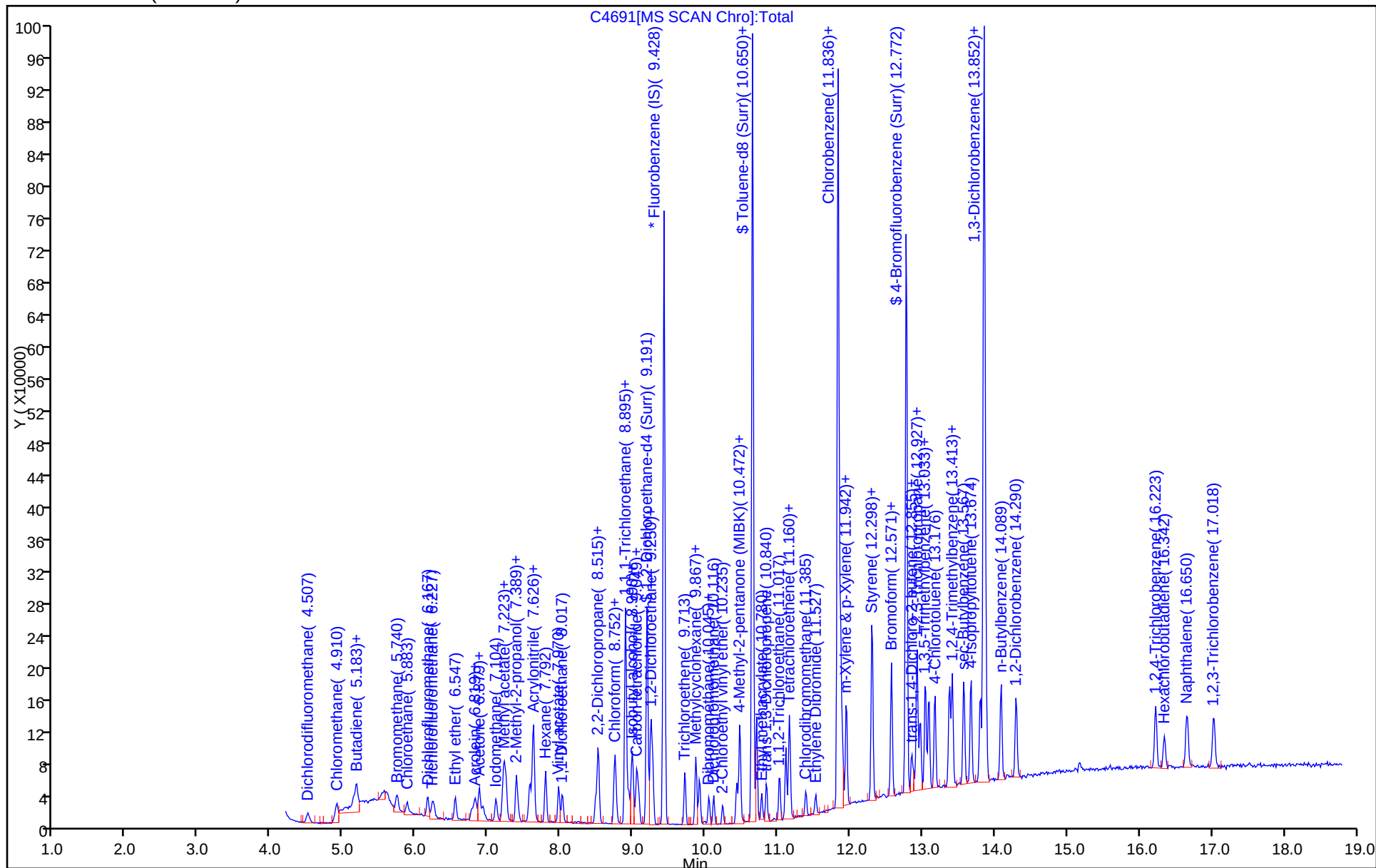
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4691.D

Injection Date: 19-Jun-2017 16:10:30

Instrument ID: HP5973C

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#:

18

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

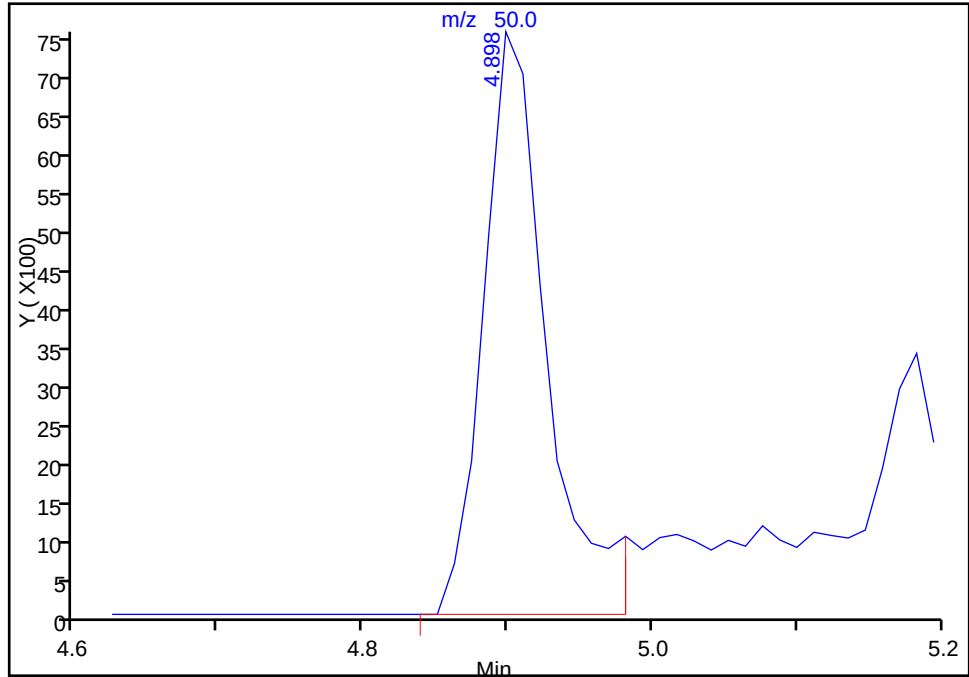
Detector: MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

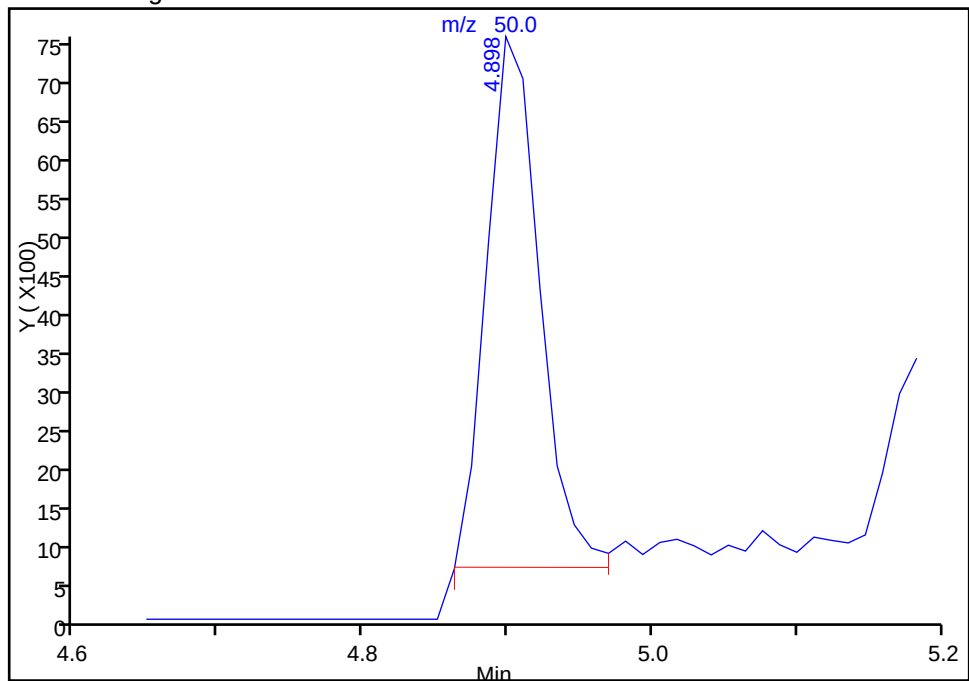
RT: 4.90
Area: 23131
Amount: 2.576528
Amount Units: ug/L

Processing Integration Results



RT: 4.90
Area: 17603
Amount: 2.039252
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:41:27

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

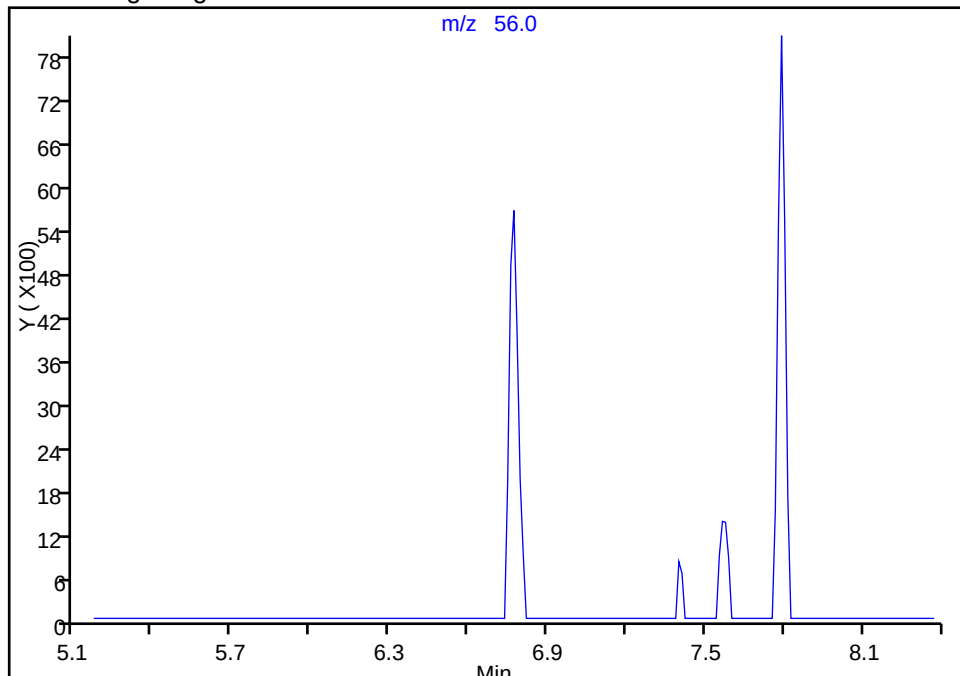
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4691.D
Injection Date: 19-Jun-2017 16:10:30 Instrument ID: HP5973C
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 18 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

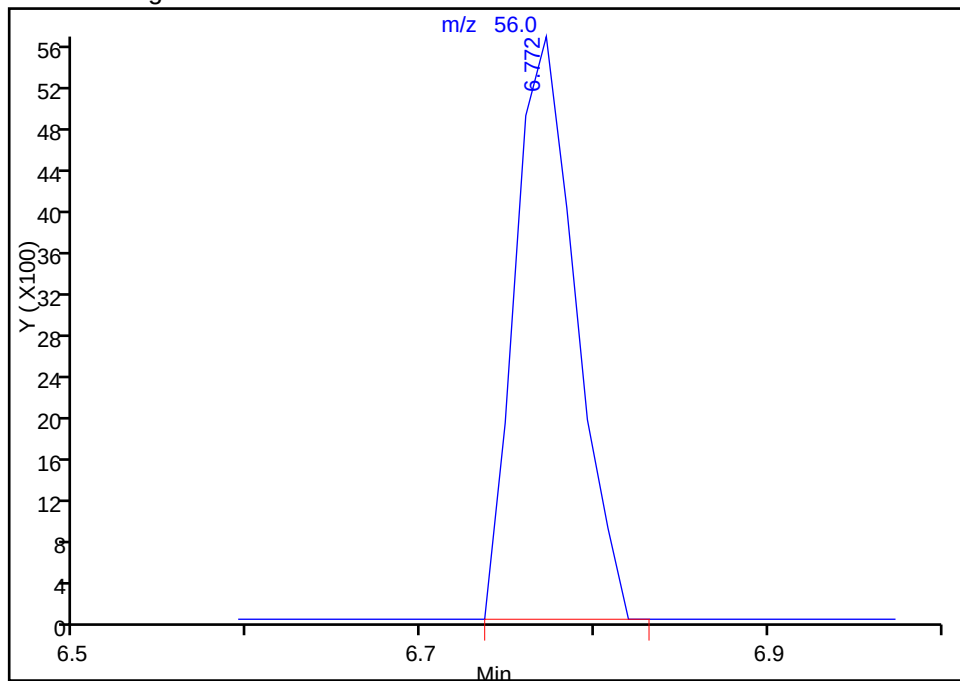
Not Detected
Expected RT: 6.77

Processing Integration Results



RT: 6.77
Area: 13686
Amount: 8.865255
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:41:34
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography
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07/03/2017

TestAmerica Buffalo

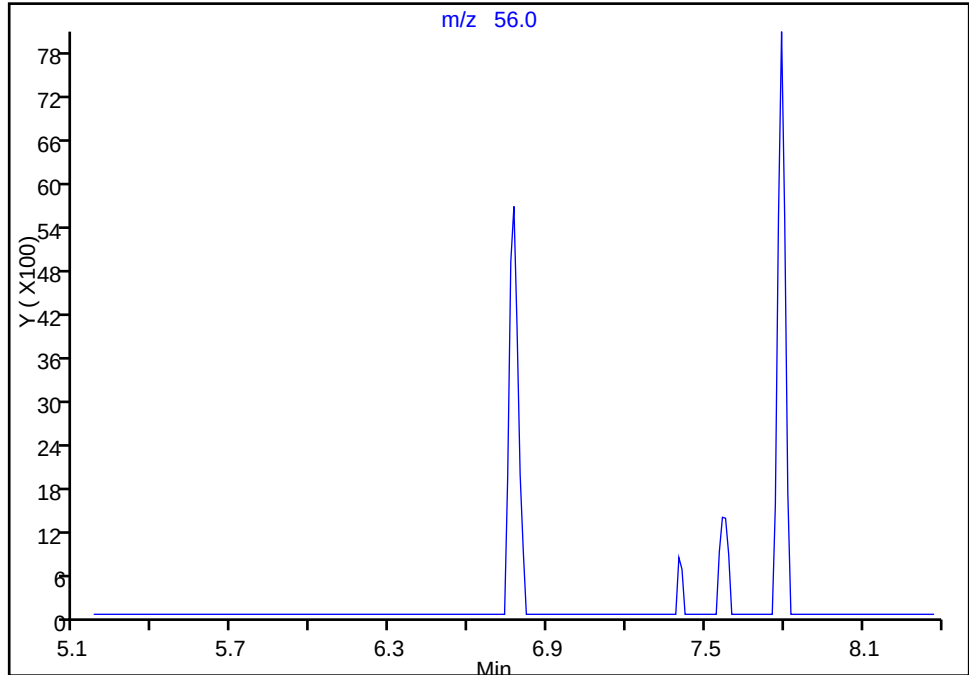
Data File:	\\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4691.D		
Injection Date:	19-Jun-2017 16:10:30	Instrument ID:	HP5973C
Lims ID:	IC 2		
Client ID:			
Operator ID:	LH	ALS Bottle#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	C-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	10

20 Acrolein, CAS: 107-02-8

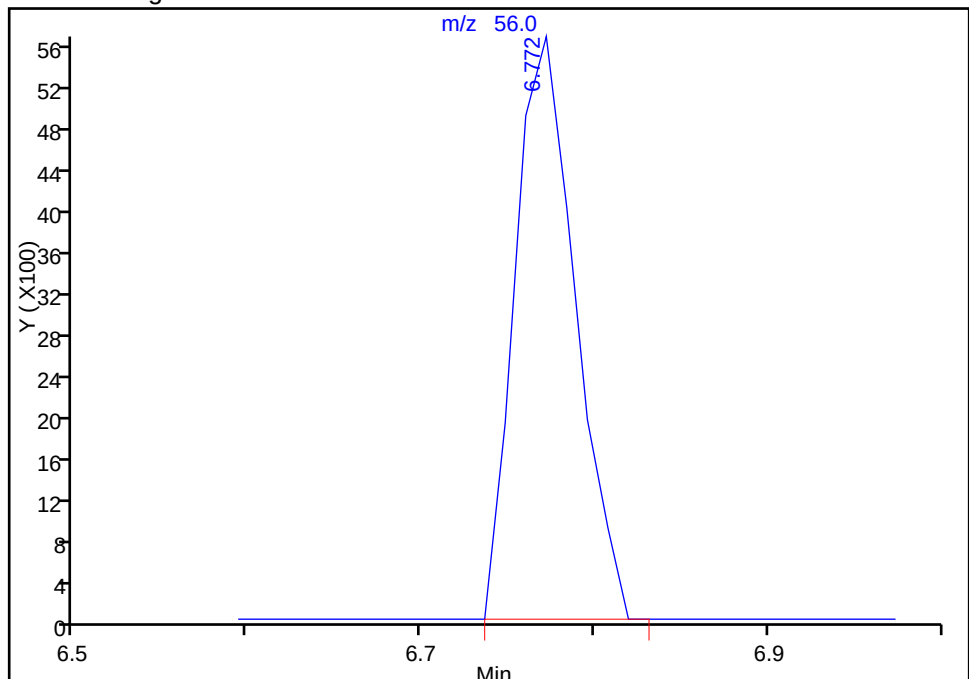
Signal: 1

Not Detected
Expected RT: 6.77

Processing Integration Results



Manual Integration Results



RT: 6.77
Area: 13686
Amount: 8.865255
Amount Units: ug/L

Reviewer: reiler, 19-Jun-2017 19:41:39

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

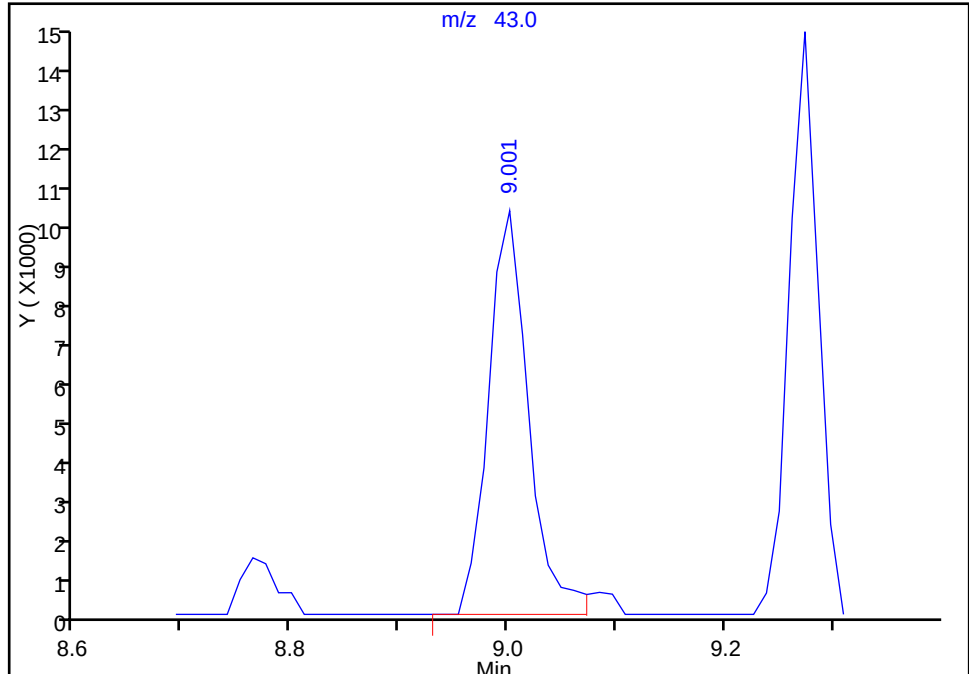
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4691.D
Injection Date: 19-Jun-2017 16:10:30 Instrument ID: HP5973C
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 18 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

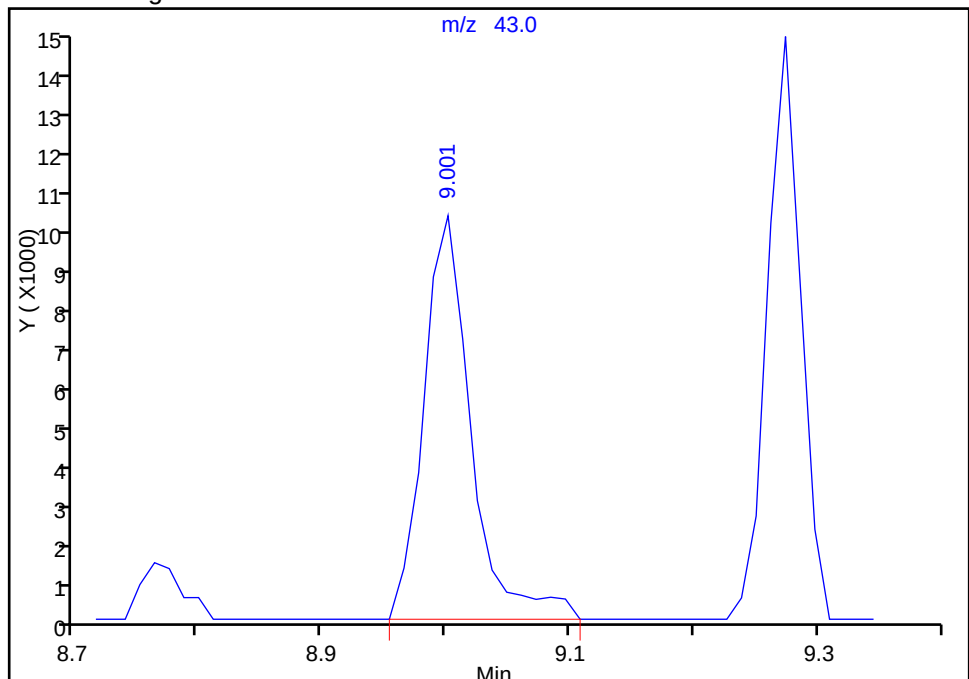
RT: 9.00
Area: 26336
Amount: 46.493069
Amount Units: ug/L

Processing Integration Results



RT: 9.00
Area: 27095
Amount: 45.724181
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:41:55
Audit Action: Manually Integrated

Audit Reason: Peak Tail
Page 153 of 422

07/03/2017

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4691.D

Injection Date: 19-Jun-2017 16:10:30

Instrument ID: HP5973C

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#: 18 Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

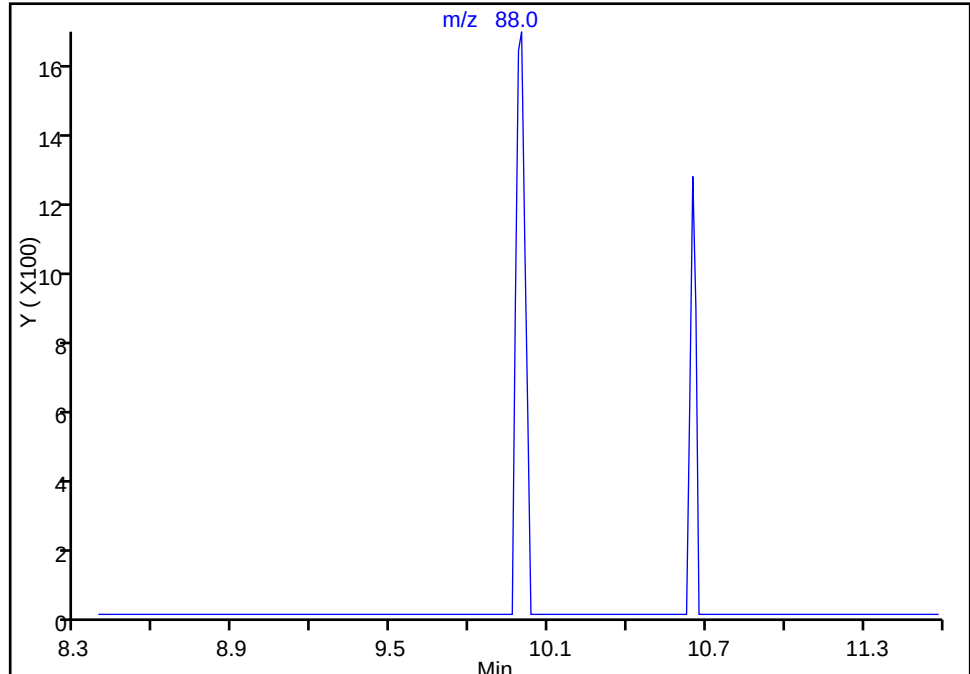
66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

Not Detected

Expected RT: 9.99

Processing Integration Results



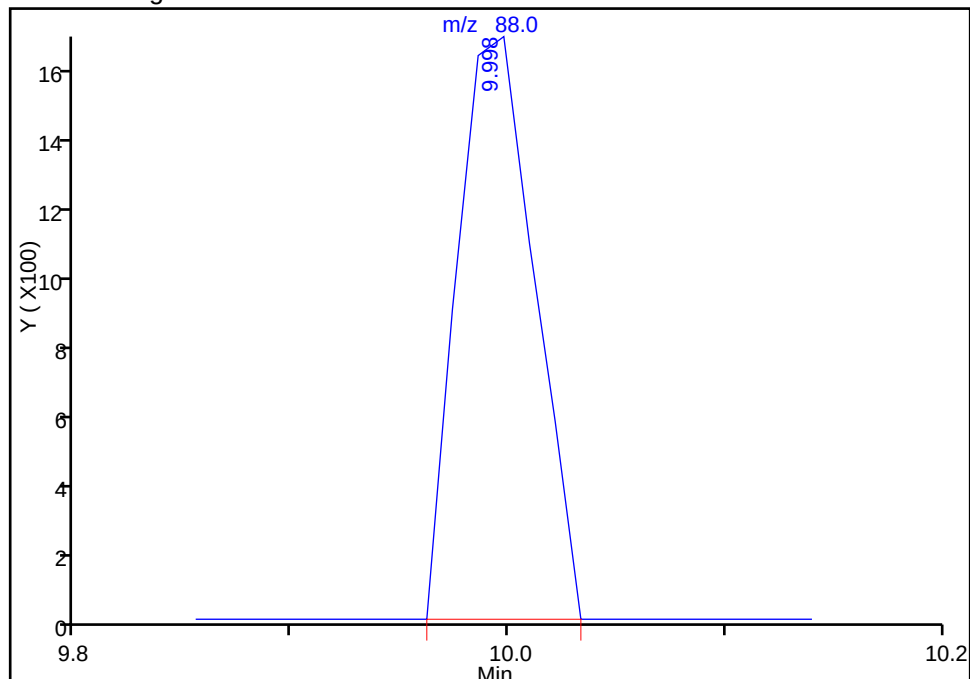
RT: 10.00

Area: 4103

Amount: 36.285880

Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:42:01

Audit Action: Assigned Compound ID

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4691.D

Injection Date: 19-Jun-2017 16:10:30

Instrument ID: HP5973C

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#:

18

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

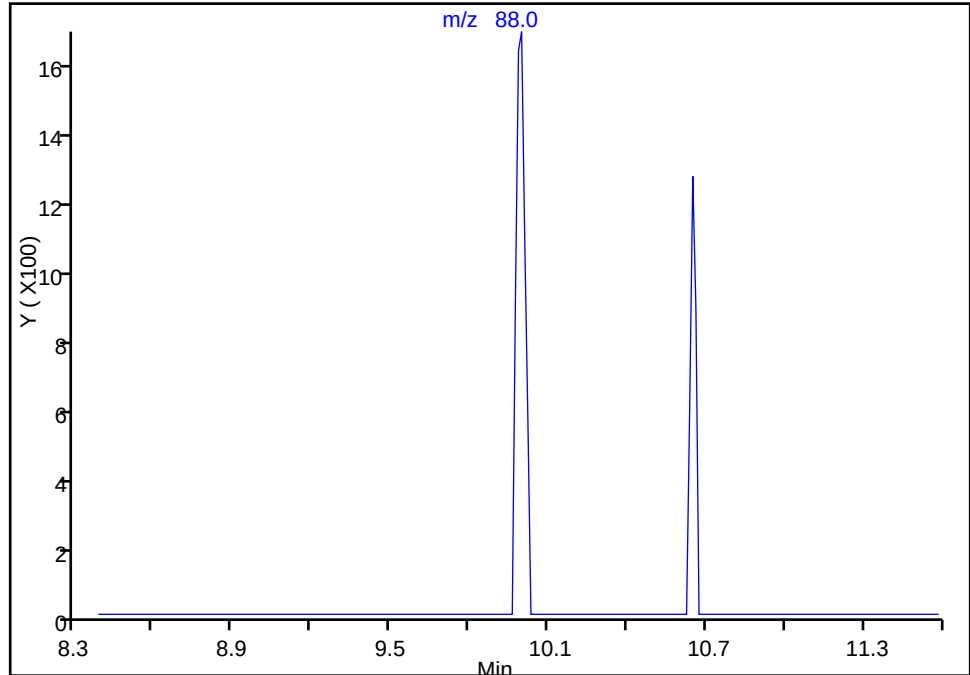
66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

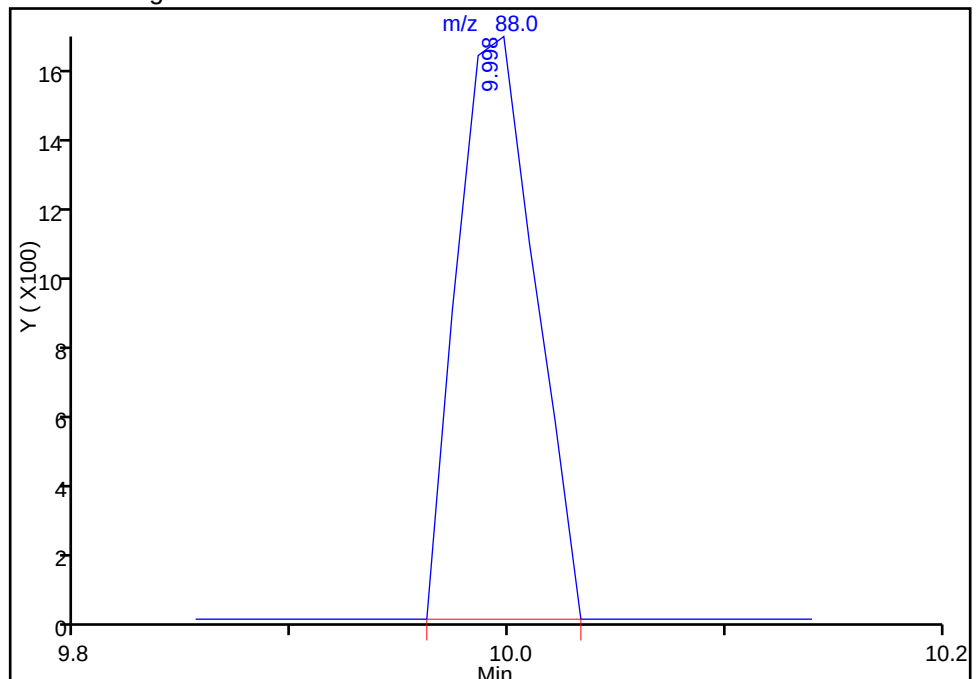
Not Detected

Expected RT: 9.99

Processing Integration Results



Manual Integration Results



RT: 10.00

Area: 4103

Amount: 36.285880

Amount Units: ug/L

Reviewer: reiler, 19-Jun-2017 19:42:06

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4691.D

Injection Date: 19-Jun-2017 16:10:30

Instrument ID: HP5973C

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#:

18

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

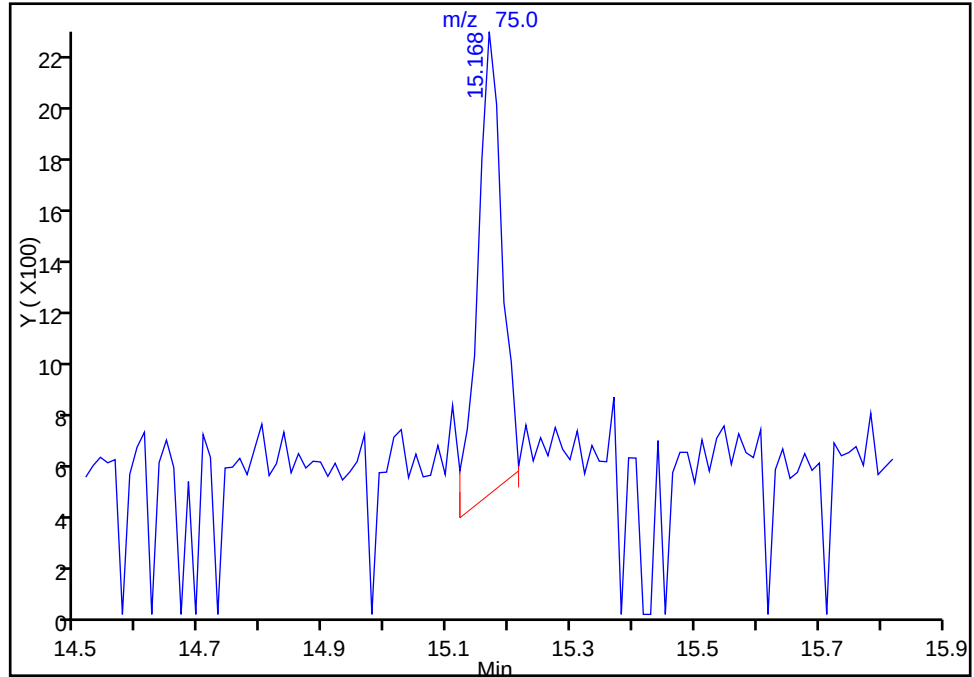
MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

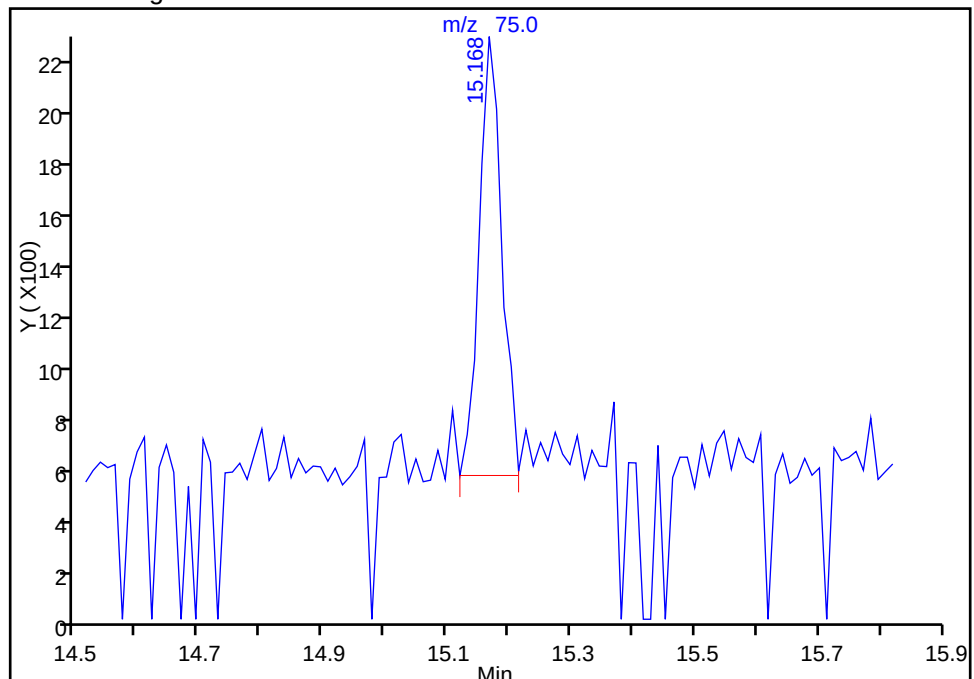
RT: 15.17
Area: 4820
Amount: 2.268131
Amount Units: ug/L

Processing Integration Results



RT: 15.17
Area: 4237
Amount: 1.988393
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:42:32

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4692.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Jun-2017 16:35:30 ALS Bottle#: 19 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0063379-011
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Jun-2017 23:45:35 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: reiler

Date: 19-Jun-2017 18:17:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	130933	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	86	296585	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.852	0.000	94	320548	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	94	163217	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	95602	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	92	667805	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	97	237578	25.0	24.8	
10 Dichlorodifluoromethane	85	4.507	4.507	0.000	99	65557	5.00	5.24	
12 Chloromethane	50	4.910	4.910	0.000	100	48906	5.00	5.64	
13 Vinyl chloride	62	5.147	5.147	0.000	97	39505	5.00	5.05	
151 Butadiene	54	5.183	5.183	0.000	95	36873	5.00	5.12	
14 Bromomethane	94	5.740	5.740	0.000	91	46045	5.00	4.95	
15 Chloroethane	64	5.883	5.883	0.000	100	40542	5.00	5.17	
16 Dichlorofluoromethane	67	6.167	6.167	0.000	97	95090	5.00	5.07	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	97	93568	5.00	5.21	
18 Ethyl ether	59	6.547	6.547	0.000	93	46993	5.00	4.96	
20 Acrolein	56	6.772	6.772	0.000	99	37825	25.0	24.4	
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	93	58650	5.00	5.23	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	56676	5.00	5.06	
23 Acetone	43	6.926	6.926	0.000	99	75432	25.0	25.8	
25 Iodomethane	142	7.104	7.104	0.000	100	99284	5.00	5.01	
26 Carbon disulfide	76	7.199	7.199	0.000	100	197198	5.00	5.03	
27 Methyl acetate	43	7.223	7.223	0.000	98	199722	25.0	26.3	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	87	92481	5.00	4.97	
30 Methylene Chloride	84	7.389	7.389	0.000	94	59969	5.00	5.01	
31 2-Methyl-2-propanol	59	7.401	7.401	0.000	97	57740	50.0	50.7	
32 Methyl tert-butyl ether	73	7.578	7.578	0.000	96	151599	5.00	5.01	
33 Acrylonitrile	53	7.614	7.614	0.000	100	198746	50.0	53.4	
34 trans-1,2-Dichloroethene	96	7.638	7.638	0.000	99	63598	5.00	5.19	
35 Hexane	57	7.792	7.792	0.000	94	82751	5.00	5.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.970	7.970	0.000	97	200711	10.0	9.73	
39 1,1-Dichloroethane	63	8.029	8.029	0.000	96	104265	5.00	5.23	
43 2-Butanone (MEK)	43	8.480	8.480	0.000	100	119990	25.0	25.4	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	65	80801	5.00	5.14	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	83	68521	5.00	5.07	
48 Chlorobromomethane	128	8.741	8.741	0.000	97	33454	5.00	5.08	
50 Chloroform	83	8.752	8.752	0.000	93	102501	5.00	5.00	
49 Tetrahydrofuran	42	8.764	8.764	0.000	87	33345	10.0	9.60	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	86959	5.00	5.10	
52 Cyclohexane	56	8.990	8.990	0.000	94	107199	5.00	5.19	
53 Isobutyl alcohol	43	9.001	9.001	0.000	92	73600	125.0	123.7	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	98	78599	5.00	5.24	
55 Carbon tetrachloride	117	9.073	9.073	0.000	96	80081	5.00	5.15	
57 Benzene	78	9.250	9.250	0.000	95	237694	5.00	5.21	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	97	79326	5.00	5.07	
59 n-Heptane	43	9.274	9.274	0.000	92	80091	5.00	5.21	
62 Trichloroethene	95	9.713	9.713	0.000	95	61984	5.00	5.15	
64 Methylcyclohexane	83	9.867	9.867	0.000	89	95842	5.00	5.13	
65 1,2-Dichloropropane	63	9.926	9.926	0.000	96	61227	5.00	5.13	
66 1,4-Dioxane	88	9.986	9.986	0.000	91	11461	100.0	99.9	
67 Dibromomethane	93	10.045	10.045	0.000	94	35628	5.00	4.98	
68 Dichlorobromomethane	83	10.116	10.116	0.000	98	66036	5.00	4.86	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	94	30717	5.00	4.71	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	99	84684	5.00	4.81	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	96	256082	25.0	25.1	
74 Toluene	92	10.709	10.709	0.000	99	156309	5.00	5.20	
75 Ethyl methacrylate	69	10.780	10.780	0.000	90	52148	5.00	4.52	
77 trans-1,3-Dichloropropene	75	10.839	10.839	0.000	93	78491	5.00	4.90	
79 1,1,2-Trichloroethane	83	11.029	11.029	0.000	91	44278	5.00	5.20	
80 2-Hexanone	43	11.112	11.112	0.000	97	175936	25.0	24.5	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	71731	5.00	5.12	
82 1,3-Dichloropropane	76	11.172	11.172	0.000	93	92471	5.00	5.08	
83 Chlorodibromomethane	129	11.385	11.385	0.000	91	51203	5.00	4.72	
84 Ethylene Dibromide	107	11.527	11.527	0.000	98	53002	5.00	4.93	
87 Chlorobenzene	112	11.859	11.859	0.000	95	188751	5.00	5.21	
88 Ethylbenzene	91	11.871	11.871	0.000	96	296691	5.00	5.09	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	93	61226	5.00	4.98	
90 m-Xylene & p-Xylene	106	11.954	11.954	0.000	99	119789	5.00	5.15	
91 o-Xylene	106	12.298	12.298	0.000	96	118269	5.00	5.12	
92 Styrene	104	12.310	12.310	0.000	93	177134	5.00	4.98	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	299428	5.00	5.07	
95 Bromoform	173	12.583	12.583	0.000	96	30812	5.00	4.77	
97 1,1,2,2-Tetrachloroethane	83	12.844	12.844	0.000	96	67887	5.00	4.95	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	91	18152	5.00	5.05	
99 N-Propylbenzene	91	12.927	12.927	0.000	99	353268	5.00	5.10	
100 1,2,3-Trichloropropane	110	12.938	12.938	0.000	82	23570	5.00	5.20	
101 Bromobenzene	156	12.974	12.974	0.000	87	83417	5.00	5.17	
102 1,3,5-Trimethylbenzene	105	13.045	13.045	0.000	94	245406	5.00	5.02	
103 2-Chlorotoluene	126	13.093	13.093	0.000	98	75723	5.00	5.17	
105 4-Chlorotoluene	126	13.176	13.176	0.000	97	77604	5.00	5.03	
106 tert-Butylbenzene	134	13.377	13.377	0.000	92	59344	5.00	5.06	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	94	257856	5.00	5.06	

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	13.567	13.567	0.000	94	313911	5.00	5.05	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	267590	5.00	5.03	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	97	159426	5.00	5.04	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	96	165239	5.00	5.12	
115 n-Butylbenzene	91	14.089	14.089	0.000	98	235850	5.00	5.03	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	98	154369	5.00	5.09	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	84	10393	5.00	4.76	M
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	94	106526	5.00	4.95	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	98	37404	5.00	4.98	
121 Naphthalene	128	16.650	16.650	0.000	97	249147	5.00	4.91	
122 1,2,3-Trichlorobenzene	180	17.030	17.030	0.000	96	95833	5.00	4.92	
S 125 1,2-Dichloroethene, Total	1				0			10.3	
S 126 1,3-Dichloropropene, Total	1				0			9.71	
S 123 Total BTEX	1				0			25.8	
S 124 Xylenes, Total	1				0			10.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00100

Amount Added: 5.00

Units: uL

GAS CORP mix_00225

Amount Added: 5.00

Units: uL

C_8260_IS_00089

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00098

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4692.D

Injection Date: 19-Jun-2017 16:35:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 3

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

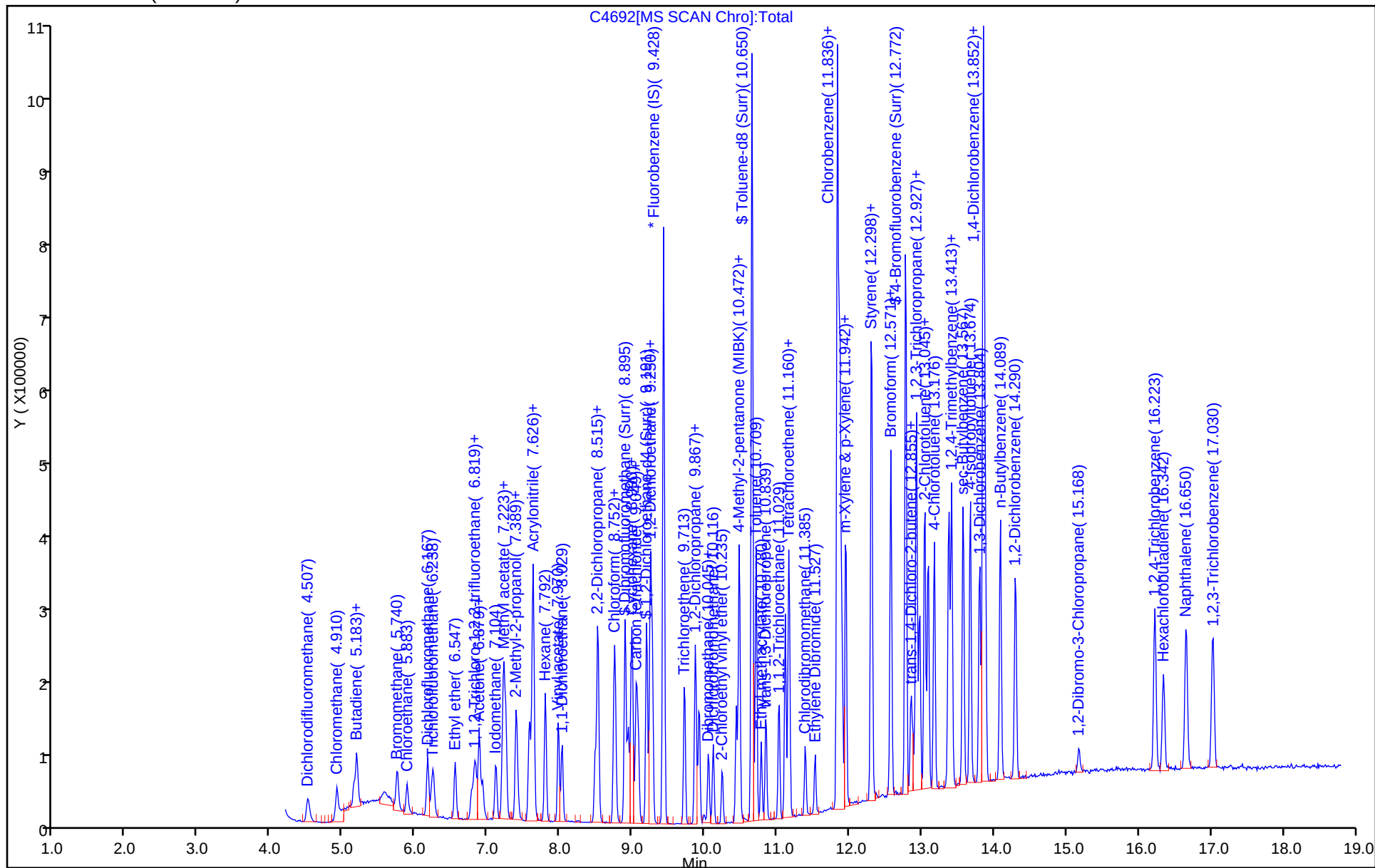
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

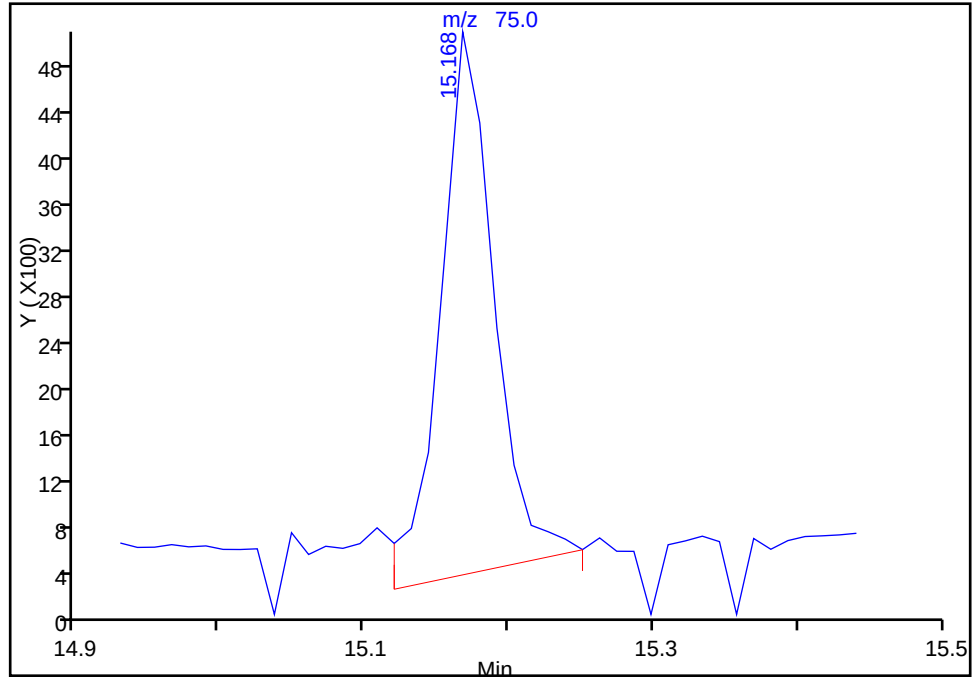
Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4692.D
Injection Date: 19-Jun-2017 16:35:30 Instrument ID: HP5973C
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: C-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

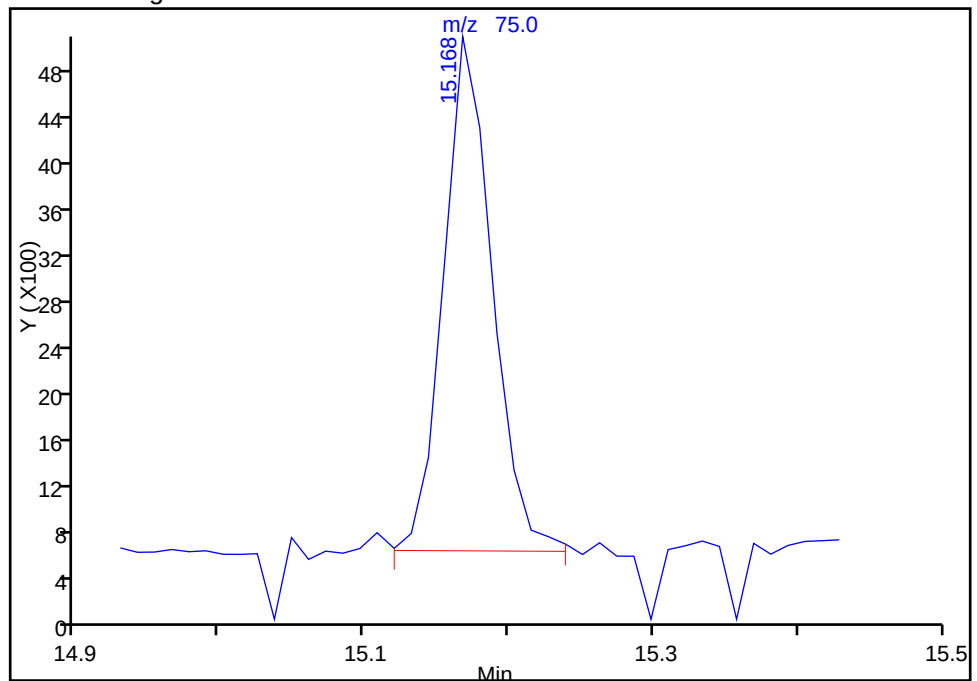
RT: 15.17
Area: 12099
Amount: 5.337471
Amount Units: ug/L

Processing Integration Results



RT: 15.17
Area: 10393
Amount: 4.758387
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 19:45:22
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 161 of 422

07/03/2017

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4693.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 19-Jun-2017 17:00:30 ALS Bottle#: 20 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0063379-012
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Jun-2017 23:45:38 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: reiler

Date: 19-Jun-2017 18:21:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	131165	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	83	297127	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.852	-0.001	94	321454	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	94	162908	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	98	95332	25.0	24.8	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	674173	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	98	240286	25.0	25.1	
10 Dichlorodifluoromethane	85	4.519	4.507	0.012	99	133396	10.0	10.6	
12 Chloromethane	50	4.910	4.910	0.000	98	93876	10.0	10.8	
13 Vinyl chloride	62	5.147	5.147	0.000	98	77872	10.0	9.94	
151 Butadiene	54	5.195	5.183	0.012	93	72621	10.0	10.1	
14 Bromomethane	94	5.752	5.740	0.012	91	91844	10.0	9.86	
15 Chloroethane	64	5.883	5.883	0.000	100	78244	10.0	9.97	
16 Dichlorofluoromethane	67	6.167	6.167	0.000	97	191748	10.0	10.2	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	98	185024	10.0	10.3	
18 Ethyl ether	59	6.547	6.547	0.000	94	97026	10.0	10.2	
20 Acrolein	56	6.772	6.772	0.000	99	77688	50.0	50.0	
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	92	110857	10.0	9.88	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	108095	10.0	9.64	
23 Acetone	43	6.926	6.926	0.000	100	146045	50.0	49.9	
25 Iodomethane	142	7.116	7.104	0.012	99	196592	10.0	9.90	
26 Carbon disulfide	76	7.211	7.199	0.012	100	390010	10.0	9.93	
27 Methyl acetate	43	7.223	7.223	0.000	98	398292	50.0	52.3	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	90	183425	10.0	9.84	
30 Methylene Chloride	84	7.389	7.389	0.000	94	119910	10.0	10.0	
31 2-Methyl-2-propanol	59	7.412	7.401	0.011	98	113926	100.0	99.9	
32 Methyl tert-butyl ether	73	7.578	7.578	0.000	97	308582	10.0	10.2	
33 Acrylonitrile	53	7.614	7.614	0.000	99	391696	100.0	105.1	
34 trans-1,2-Dichloroethene	96	7.638	7.638	0.000	99	121830	10.0	9.92	
35 Hexane	57	7.792	7.792	0.000	94	160737	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.970	7.970	0.000	97	418806	20.0	20.3	
39 1,1-Dichloroethane	63	8.029	8.029	0.000	96	203663	10.0	10.2	
43 2-Butanone (MEK)	43	8.480	8.480	0.000	100	241847	50.0	51.0	
45 cis-1,2-Dichloroethene	96	8.527	8.515	0.012	81	135845	10.0	10.0	
44 2,2-Dichloropropane	77	8.527	8.515	0.012	67	157735	10.0	10.0	
48 Chlorobromomethane	128	8.740	8.741	-0.001	96	66869	10.0	10.1	
50 Chloroform	83	8.752	8.752	0.000	94	201958	10.0	9.83	
49 Tetrahydrofuran	42	8.764	8.764	0.000	90	67055	20.0	19.3	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	172335	10.0	10.1	
52 Cyclohexane	56	8.990	8.990	0.000	93	210277	10.0	10.2	
53 Isobutyl alcohol	43	9.001	9.001	0.000	93	149202	250.0	250.4	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	97	151932	10.0	10.1	
55 Carbon tetrachloride	117	9.073	9.073	-0.001	96	153744	10.0	9.88	
57 Benzene	78	9.250	9.250	0.000	95	456039	10.0	9.98	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	97	157246	10.0	10.0	
59 n-Heptane	43	9.274	9.274	0.000	93	154936	10.0	10.1	
62 Trichloroethene	95	9.713	9.713	0.000	97	119257	10.0	9.88	
64 Methylcyclohexane	83	9.867	9.867	0.000	90	186958	10.0	9.98	
65 1,2-Dichloropropane	63	9.914	9.926	-0.012	96	120740	10.0	10.1	
66 1,4-Dioxane	88	9.986	9.986	0.000	96	22193	200.0	193.1	
67 Dibromomethane	93	10.045	10.045	0.000	94	71676	10.0	10.0	
68 Dichlorobromomethane	83	10.116	10.116	0.000	98	135581	10.0	9.96	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	93	67204	10.0	10.3	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	99	177238	10.0	10.0	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	96	535886	50.0	52.4	
74 Toluene	92	10.709	10.709	0.000	98	305337	10.0	10.1	
75 Ethyl methacrylate	69	10.780	10.780	0.000	91	113247	10.0	9.80	
77 trans-1,3-Dichloropropene	75	10.839	10.839	0.000	93	163204	10.0	10.2	
79 1,1,2-Trichloroethane	83	11.029	11.029	0.000	91	87562	10.0	10.3	
80 2-Hexanone	43	11.112	11.112	0.000	97	375049	50.0	52.1	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	141346	10.0	10.1	
82 1,3-Dichloropropane	76	11.171	11.172	-0.001	92	191504	10.0	10.5	
83 Chlorodibromomethane	129	11.385	11.385	0.000	90	109095	10.0	10.0	
84 Ethylene Dibromide	107	11.527	11.527	0.000	99	108407	10.0	10.1	
87 Chlorobenzene	112	11.859	11.859	0.000	93	368780	10.0	10.2	
88 Ethylbenzene	91	11.871	11.871	0.000	98	581564	10.0	9.96	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	94	126000	10.0	10.2	
90 m-Xylene & p-Xylene	106	11.954	11.954	0.000	99	238637	10.0	10.2	
91 o-Xylene	106	12.298	12.298	0.000	96	238500	10.0	10.3	
92 Styrene	104	12.310	12.310	0.000	93	365717	10.0	10.3	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	597870	10.0	10.1	
95 Bromoform	173	12.583	12.583	0.000	99	63933	10.0	9.88	
97 1,1,2,2-Tetrachloroethane	83	12.844	12.844	0.000	95	138764	10.0	10.1	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	92	36486	10.0	10.1	
99 N-Propylbenzene	91	12.927	12.927	0.000	99	693803	10.0	9.99	
100 1,2,3-Trichloropropane	110	12.938	12.938	0.000	83	45161	10.0	9.93	
101 Bromobenzene	156	12.974	12.974	0.000	87	165179	10.0	10.2	
102 1,3,5-Trimethylbenzene	105	13.045	13.045	0.000	94	494613	10.0	10.1	
103 2-Chlorotoluene	126	13.093	13.093	0.000	98	150707	10.0	10.3	
105 4-Chlorotoluene	126	13.176	13.176	0.000	97	156055	10.0	10.1	
106 tert-Butylbenzene	134	13.377	13.377	0.000	92	115574	10.0	9.84	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	93	521092	10.0	10.2	

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	13.567	13.567	0.000	94	629160	10.0	10.1	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	541671	10.0	10.2	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	97	320142	10.0	10.1	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	96	327878	10.0	10.1	
115 n-Butylbenzene	91	14.089	14.089	0.000	97	462761	10.0	9.84	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	99	306576	10.0	10.1	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	86	22022	10.0	10.1	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	95	214351	10.0	9.92	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	98	76116	10.0	10.1	
121 Naphthalene	128	16.650	16.650	0.000	97	511339	10.0	10.0	
122 1,2,3-Trichlorobenzene	180	17.030	17.030	0.000	96	199304	10.0	10.2	
S 123 Total BTEX	1				0			50.6	
S 124 Xylenes, Total	1				0			20.6	
S 125 1,2-Dichloroethene, Total	1				0			20.0	
S 126 1,3-Dichloropropene, Total	1				0			20.2	

Reagents:

8260 CORP mix_00100	Amount Added: 5.00	Units: uL	
GAS CORP mix_00225	Amount Added: 5.00	Units: uL	
C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00098	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170619-63379.b\\C4693.D

Injection Date: 19-Jun-2017 17:00:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 4

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

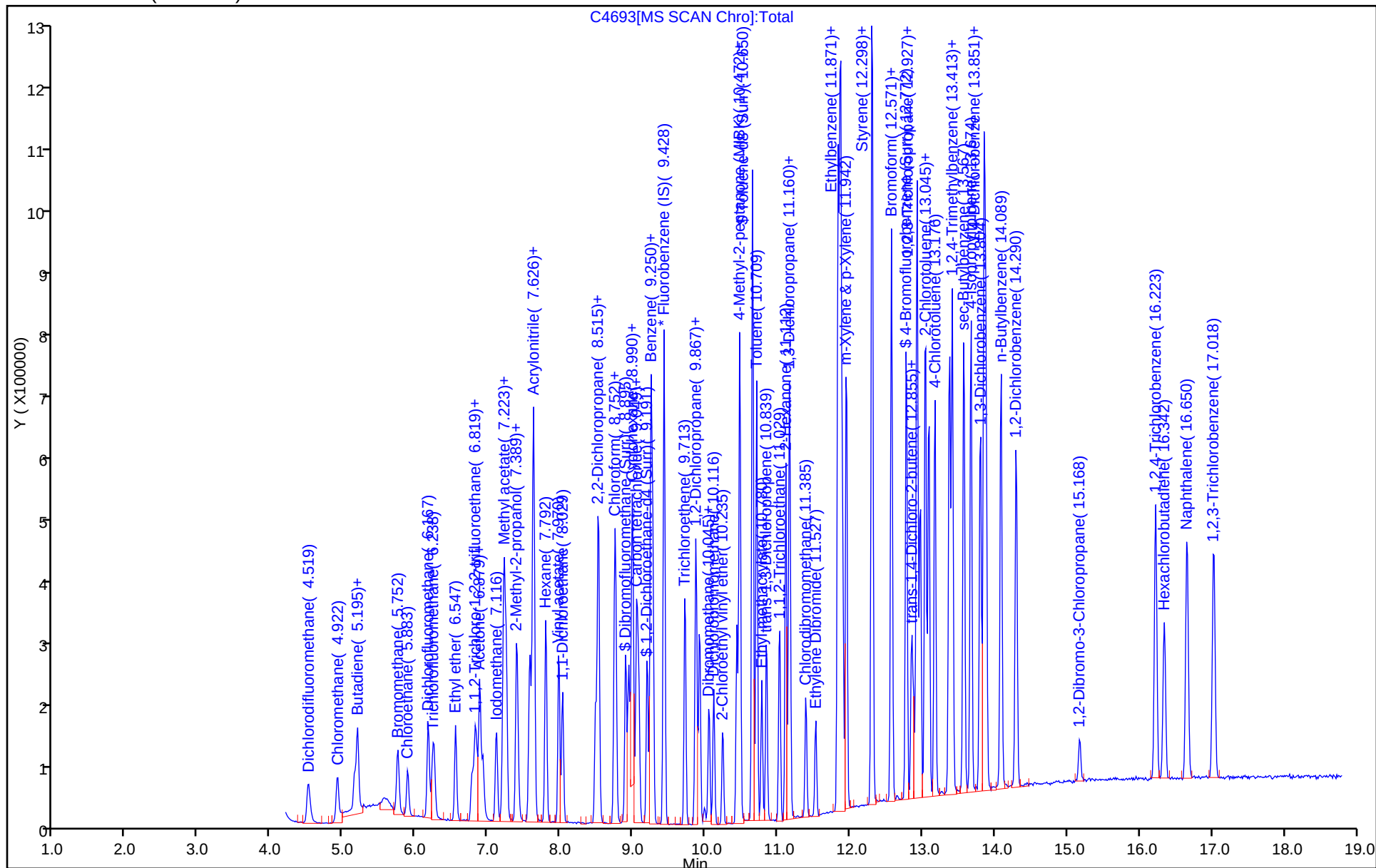
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4694.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 19-Jun-2017 17:25:30 ALS Bottle#: 21 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0063379-013
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Jun-2017 23:45:42 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: reiler

Date: 19-Jun-2017 23:44:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	131074	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.835	11.835	0.000	85	294775	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.851	0.000	93	321861	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	164975	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	96241	25.0	25.1	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	674358	25.0	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	97	240903	25.0	25.3	
10 Dichlorodifluoromethane	85	4.507	4.507	0.000	99	330591	25.0	26.4	
12 Chloromethane	50	4.910	4.910	0.000	99	220196	25.0	25.4	
13 Vinyl chloride	62	5.147	5.147	0.000	98	193351	25.0	24.7	
151 Butadiene	54	5.183	5.183	0.000	92	178452	25.0	24.8	
14 Bromomethane	94	5.752	5.752	0.000	91	227130	25.0	24.4	
15 Chloroethane	64	5.882	5.882	0.000	100	198009	25.0	25.2	
16 Dichlorofluoromethane	67	6.167	6.167	0.000	97	469913	25.0	25.0	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	98	465317	25.0	25.9	
18 Ethyl ether	59	6.547	6.547	0.000	93	238983	25.0	25.2	
20 Acrolein	56	6.772	6.772	0.000	100	198382	125.0	127.9	
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	92	283559	25.0	25.3	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	264860	25.0	23.6	
23 Acetone	43	6.914	6.914	0.000	100	351950	125.0	120.4	
25 Iodomethane	142	7.104	7.104	0.000	98	498733	25.0	25.1	
26 Carbon disulfide	76	7.199	7.199	0.000	100	996375	25.0	25.4	
27 Methyl acetate	43	7.222	7.222	0.000	98	967776	125.0	127.2	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	92	457199	25.0	24.5	
30 Methylene Chloride	84	7.389	7.389	0.000	94	292098	25.0	24.4	
31 2-Methyl-2-propanol	59	7.400	7.400	0.000	97	287034	250.0	251.9	
32 Methyl tert-butyl ether	73	7.566	7.566	0.000	96	760843	25.0	25.1	
33 Acrylonitrile	53	7.614	7.614	0.000	100	982151	250.0	263.6	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	99	296302	25.0	24.2	
35 Hexane	57	7.792	7.792	0.000	93	404894	25.0	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.970	7.970	0.000	97	1077915	50.0	52.2	
39 1,1-Dichloroethane	63	8.029	8.029	0.000	96	497706	25.0	24.9	
43 2-Butanone (MEK)	43	8.480	8.480	0.000	100	589802	125.0	124.5	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	64	393049	25.0	25.0	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	81	336347	25.0	24.9	
48 Chlorobromomethane	128	8.740	8.740	0.000	95	162676	25.0	24.7	
50 Chloroform	83	8.752	8.752	0.000	93	495632	25.0	24.1	
49 Tetrahydrofuran	42	8.764	8.764	0.000	90	161975	50.0	46.6	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	432750	25.0	25.4	
52 Cyclohexane	56	8.989	8.989	0.000	95	533269	25.0	25.8	
53 Isobutyl alcohol	43	9.001	9.001	0.000	94	378663	625.0	635.8	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	97	379864	25.0	25.3	
55 Carbon tetrachloride	117	9.072	9.072	0.000	96	395298	25.0	25.4	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	98	382115	25.0	24.4	
57 Benzene	78	9.238	9.238	0.000	96	1126873	25.0	24.7	
59 n-Heptane	43	9.274	9.274	0.000	93	393724	25.0	25.6	
62 Trichloroethene	95	9.713	9.713	0.000	96	300600	25.0	24.9	
64 Methylcyclohexane	83	9.867	9.867	0.000	91	488702	25.0	26.1	
65 1,2-Dichloropropane	63	9.914	9.914	0.000	97	299092	25.0	25.0	
66 1,4-Dioxane	88	9.986	9.986	0.000	95	60085	500.0	527.1	
67 Dibromomethane	93	10.045	10.045	0.000	94	181402	25.0	25.3	
68 Dichlorobromomethane	83	10.116	10.116	0.000	99	347302	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	92	173416	25.0	26.5	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	99	456125	25.0	25.9	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	96	1344712	125.0	132.4	
74 Toluene	92	10.709	10.709	0.000	98	754601	25.0	25.2	
75 Ethyl methacrylate	69	10.780	10.780	0.000	90	314633	25.0	27.4	
77 trans-1,3-Dichloropropene	75	10.839	10.839	0.000	92	419873	25.0	26.4	
79 1,1,2-Trichloroethane	83	11.029	11.029	0.000	90	212805	25.0	25.1	
80 2-Hexanone	43	11.112	11.112	0.000	97	953639	125.0	133.5	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	349988	25.0	25.1	
82 1,3-Dichloropropane	76	11.171	11.171	0.000	92	458431	25.0	25.3	
83 Chlorodibromomethane	129	11.385	11.385	0.000	90	282889	25.0	26.3	
84 Ethylene Dibromide	107	11.527	11.527	0.000	98	271621	25.0	25.4	
87 Chlorobenzene	112	11.859	11.859	0.000	97	910779	25.0	25.3	
88 Ethylbenzene	91	11.871	11.871	0.000	98	1470120	25.0	25.4	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	95	313437	25.0	25.7	
90 m-Xylene & p-Xylene	106	11.954	11.954	0.000	99	599353	25.0	25.9	
91 o-Xylene	106	12.298	12.298	0.000	94	593087	25.0	25.8	
92 Styrene	104	12.310	12.310	0.000	95	946639	25.0	26.8	
94 Isopropylbenzene	105	12.571	12.571	0.000	95	1511970	25.0	25.5	
95 Bromoform	173	12.583	12.583	0.000	98	168498	25.0	26.2	
97 1,1,2,2-Tetrachloroethane	83	12.855	12.855	0.000	95	340172	25.0	24.7	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	96	93253	25.0	25.8	
99 N-Propylbenzene	91	12.926	12.926	0.000	98	1763386	25.0	25.4	
100 1,2,3-Trichloropropane	110	12.938	12.938	0.000	83	112376	25.0	24.7	
101 Bromobenzene	156	12.974	12.974	0.000	86	406574	25.0	25.1	
102 1,3,5-Trimethylbenzene	105	13.045	13.045	0.000	94	1255389	25.0	25.6	
103 2-Chlorotoluene	126	13.092	13.092	0.000	97	373669	25.0	25.4	
105 4-Chlorotoluene	126	13.175	13.175	0.000	97	388599	25.0	25.1	
106 tert-Butylbenzene	134	13.377	13.377	0.000	92	293452	25.0	24.9	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	94	1312862	25.0	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.567	13.567	0.000	94	1611520	25.0	25.8	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	1385957	25.0	25.9	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	98	789445	25.0	24.9	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	96	802946	25.0	24.8	
115 n-Butylbenzene	91	14.089	14.089	0.000	97	1199207	25.0	25.5	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	99	762485	25.0	25.0	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	86	53962	25.0	24.6	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	94	542818	25.0	25.1	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	98	194800	25.0	25.8	
121 Naphthalene	128	16.650	16.650	0.000	97	1300706	25.0	25.5	
122 1,2,3-Trichlorobenzene	180	17.029	17.029	0.000	96	492415	25.0	25.2	

Reagents:

8260 CORP mix_00100

Amount Added: 12.50

Units: uL

GAS CORP mix_00225

Amount Added: 12.50

Units: uL

C_8260_IS_00089

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00098

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170619-63379.b\\C4694.D

Injection Date: 19-Jun-2017 17:25:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: ICIS 5

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

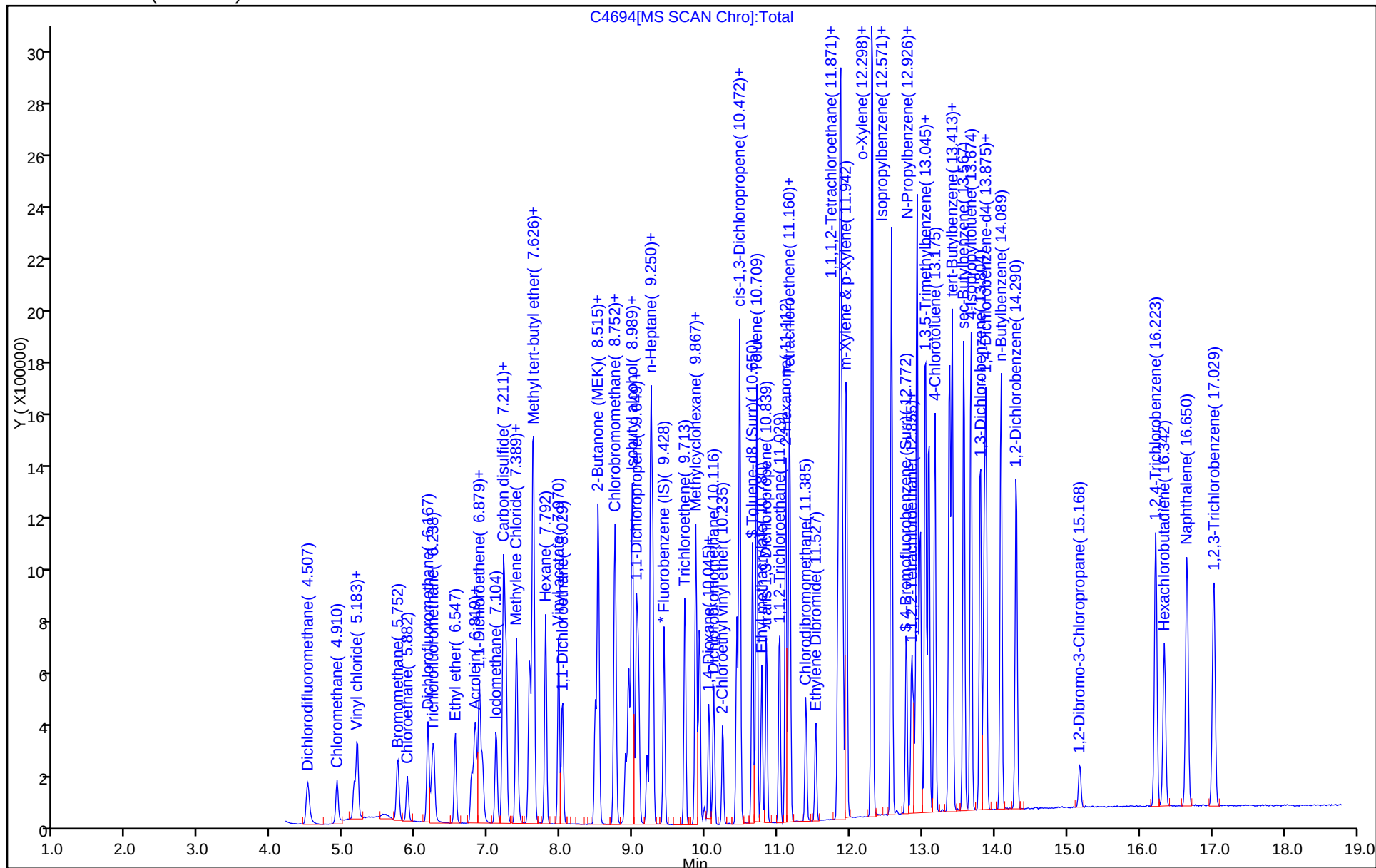
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4695.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 19-Jun-2017 17:50:30 ALS Bottle#: 22 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0063379-014
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Jun-2017 23:45:44 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: reiler

Date: 19-Jun-2017 18:24:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	132697	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.835	0.001	83	303646	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.851	0.000	94	323068	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	168374	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	100	96659	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	692231	25.0	25.2	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	97	247438	25.0	25.3	
10 Dichlorodifluoromethane	85	4.507	4.507	0.000	99	666787	50.0	52.6	
12 Chloromethane	50	4.910	4.910	0.000	99	449720	50.0	51.2	
13 Vinyl chloride	62	5.147	5.147	0.000	98	406839	50.0	51.4	
151 Butadiene	54	5.195	5.183	0.012	91	363537	50.0	49.8	
14 Bromomethane	94	5.752	5.752	0.000	91	466808	50.0	49.5	
15 Chloroethane	64	5.883	5.882	0.001	100	402336	50.0	50.7	
16 Dichlorofluoromethane	67	6.167	6.167	0.000	97	970668	50.0	51.1	
17 Trichlorofluoromethane	101	6.250	6.238	0.012	97	938140	50.0	51.5	
18 Ethyl ether	59	6.547	6.547	0.000	93	493741	50.0	51.4	
20 Acrolein	56	6.772	6.772	0.000	99	417869	250.0	266.0	
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	91	566297	50.0	49.9	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	545401	50.0	48.1	
23 Acetone	43	6.926	6.914	0.012	100	717686	250.0	242.5	
25 Iodomethane	142	7.116	7.104	0.012	98	1028073	50.0	51.2	
26 Carbon disulfide	76	7.211	7.199	0.012	100	2044674	50.0	51.4	
27 Methyl acetate	43	7.223	7.222	0.001	98	1936371	250.0	251.5	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	91	922692	50.0	48.9	
30 Methylene Chloride	84	7.389	7.389	0.000	94	583859	50.0	48.2	
31 2-Methyl-2-propanol	59	7.400	7.400	0.000	99	586413	500.0	508.3	
32 Methyl tert-butyl ether	73	7.566	7.566	0.000	96	1576029	50.0	51.4	
33 Acrylonitrile	53	7.614	7.614	0.000	99	1933787	500.0	512.6	
34 trans-1,2-Dichloroethene	96	7.638	7.626	0.012	99	588018	50.0	47.3	
35 Hexane	57	7.792	7.792	0.000	93	806447	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.970	7.970	0.000	97	2292854	100.0	109.7	
39 1,1-Dichloroethane	63	8.029	8.029	0.000	97	1004205	50.0	49.7	
43 2-Butanone (MEK)	43	8.480	8.480	0.000	100	1221306	250.0	254.8	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	81	670741	50.0	49.0	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	64	799724	50.0	50.2	
48 Chlorobromomethane	128	8.740	8.740	0.000	95	337346	50.0	50.5	
50 Chloroform	83	8.752	8.752	0.000	93	998822	50.0	48.1	
49 Tetrahydrofuran	42	8.764	8.764	0.000	91	331863	100.0	94.3	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	878163	50.0	50.9	
52 Cyclohexane	56	8.989	8.989	0.000	92	1061462	50.0	50.7	
53 Isobutyl alcohol	43	9.001	9.001	0.000	90	786134	1250.0	1303.9	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	97	768837	50.0	50.6	
55 Carbon tetrachloride	117	9.072	9.072	0.000	96	810005	50.0	51.4	
57 Benzene	78	9.238	9.238	0.000	97	2254364	50.0	48.8	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	97	775820	50.0	48.9	
59 n-Heptane	43	9.274	9.274	0.000	93	775218	50.0	49.8	
62 Trichloroethene	95	9.713	9.713	0.000	95	607971	50.0	49.8	
64 Methylcyclohexane	83	9.867	9.867	0.000	90	987210	50.0	52.1	
65 1,2-Dichloropropane	63	9.914	9.914	0.000	97	618693	50.0	51.2	
66 1,4-Dioxane	88	9.986	9.986	0.000	94	121089	1000.0	1031.2	
67 Dibromomethane	93	10.045	10.045	0.000	94	371633	50.0	51.3	
68 Dichlorobromomethane	83	10.116	10.116	0.000	99	729507	50.0	53.0	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	92	374857	50.0	56.7	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	99	974423	50.0	54.6	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	96	2772709	250.0	265.1	
74 Toluene	92	10.709	10.709	0.000	99	1548976	50.0	50.3	
75 Ethyl methacrylate	69	10.780	10.780	0.000	90	695453	50.0	58.9	
77 trans-1,3-Dichloropropene	75	10.839	10.839	0.000	92	891473	50.0	54.4	
79 1,1,2-Trichloroethane	83	11.029	11.029	0.000	91	445299	50.0	51.1	
80 2-Hexanone	43	11.112	11.112	0.000	96	1998544	250.0	271.5	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	713841	50.0	49.7	
82 1,3-Dichloropropane	76	11.171	11.171	0.000	91	931935	50.0	50.0	
83 Chlorodibromomethane	129	11.385	11.385	0.000	90	613276	50.0	55.3	
84 Ethylene Dibromide	107	11.527	11.527	0.000	98	564994	50.0	51.3	
87 Chlorobenzene	112	11.859	11.859	0.000	98	1845953	50.0	49.8	
88 Ethylbenzene	91	11.871	11.871	0.000	98	2961246	50.0	49.6	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	95	646766	50.0	51.4	
90 m-Xylene & p-Xylene	106	11.954	11.954	0.000	99	1219658	50.0	51.2	
91 o-Xylene	106	12.298	12.298	0.000	94	1200535	50.0	50.8	
92 Styrene	104	12.310	12.310	0.000	94	1965553	50.0	54.0	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	3061899	50.0	51.4	
95 Bromoform	173	12.583	12.583	0.000	99	371052	50.0	56.1	
97 1,1,2,2-Tetrachloroethane	83	12.843	12.855	-0.012	94	699603	50.0	50.7	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	93	202996	50.0	56.1	
99 N-Propylbenzene	91	12.926	12.926	0.000	98	3572360	50.0	51.2	
100 1,2,3-Trichloropropane	110	12.938	12.938	0.000	83	227337	50.0	49.7	
101 Bromobenzene	156	12.974	12.974	0.000	88	835278	50.0	51.3	
102 1,3,5-Trimethylbenzene	105	13.045	13.045	0.000	94	2563162	50.0	52.0	
103 2-Chlorotoluene	126	13.093	13.092	0.000	98	753130	50.0	51.0	
105 4-Chlorotoluene	126	13.176	13.175	0.001	97	790600	50.0	50.8	
106 tert-Butylbenzene	134	13.377	13.377	0.000	92	601780	50.0	51.0	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	93	2658084	50.0	51.8	

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	13.567	13.567	0.000	94	3284558	50.0	52.4	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	2833608	50.0	52.8	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	97	1609617	50.0	50.5	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	95	1624282	50.0	50.0	
115 n-Butylbenzene	91	14.089	14.089	0.000	97	2467664	50.0	52.2	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	99	1545144	50.0	50.6	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	88	117332	50.0	53.3	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	95	1129454	50.0	52.0	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	98	408403	50.0	53.9	
121 Naphthalene	128	16.650	16.650	0.000	97	2737695	50.0	53.5	
122 1,2,3-Trichlorobenzene	180	17.030	17.029	0.001	96	1029039	50.0	52.4	
S 123 Total BTEX	1				0			250.7	
S 124 Xylenes, Total	1				0			102.0	
S 125 1,2-Dichloroethene, Total	1				0			96.3	
S 126 1,3-Dichloropropene, Total	1				0			109.0	

Reagents:

8260 CORP mix_00100	Amount Added: 25.00	Units: uL	
GAS CORP mix_00225	Amount Added: 25.00	Units: uL	
C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00098	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170619-63379.b\\C4695.D

Injection Date: 19-Jun-2017 17:50:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 6

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

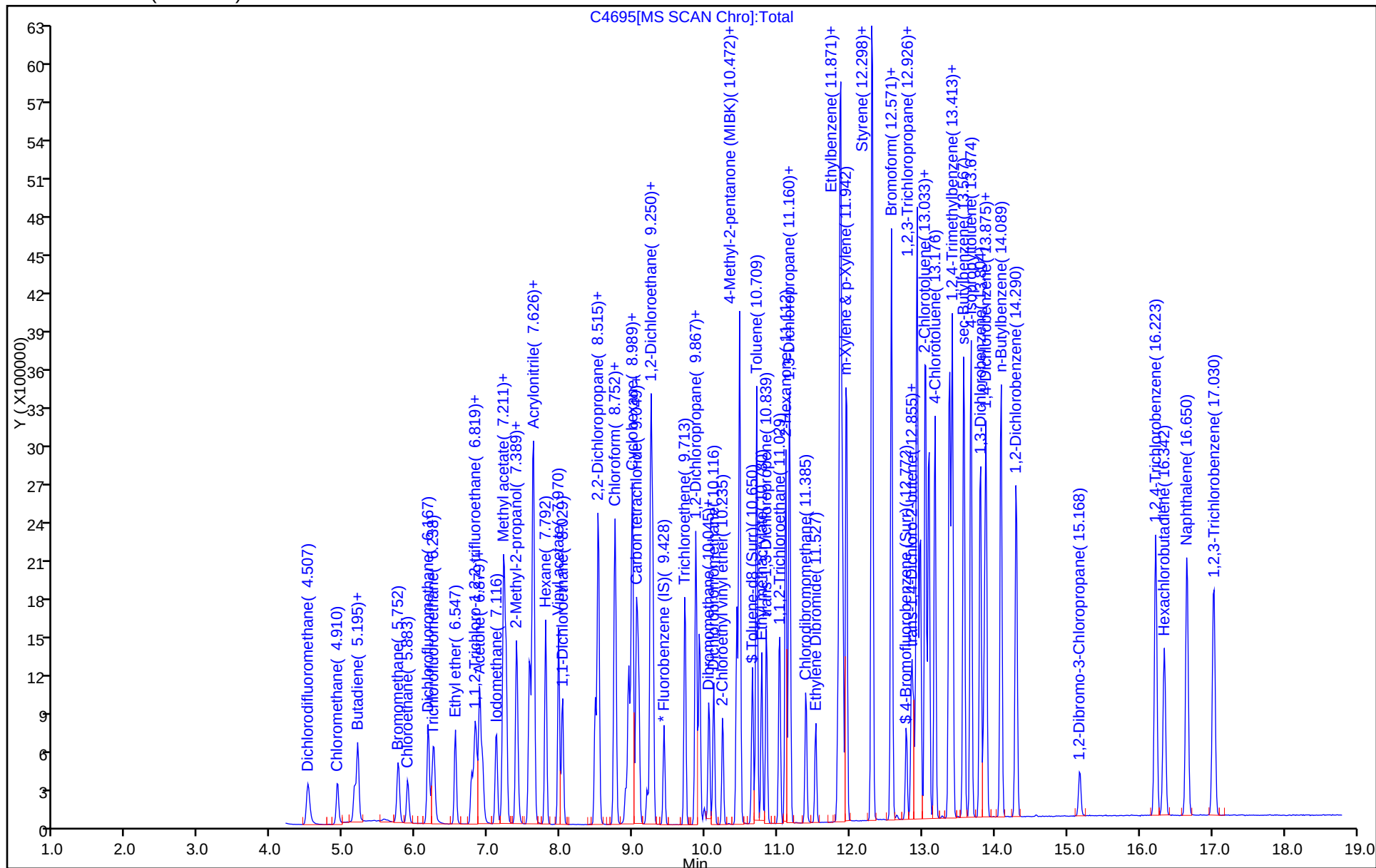
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4696.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 19-Jun-2017 18:15:30 ALS Bottle#: 23 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0063379-015
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Jun-2017 23:45:46 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: reiler

Date: 19-Jun-2017 19:00:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	136607	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.835	0.001	82	315686	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.851	0.001	94	333726	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	94	170949	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	97	97295	25.0	24.3	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	92	703679	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	97	257239	25.0	25.2	
10 Dichlorodifluoromethane	85	4.507	4.507	0.000	99	1318251	100.0	100.9	
12 Chloromethane	50	4.922	4.910	0.012	99	904683	100.0	100.1	
13 Vinyl chloride	62	5.159	5.147	0.012	99	825161	100.0	101.2	
151 Butadiene	54	5.207	5.183	0.024	91	743851	100.0	99.0	
14 Bromomethane	94	5.764	5.752	0.012	90	945883	100.0	97.5	
15 Chloroethane	64	5.895	5.882	0.012	100	816381	100.0	99.9	
16 Dichlorofluoromethane	67	6.167	6.167	0.000	97	1937587	100.0	99.0	
17 Trichlorofluoromethane	101	6.250	6.238	0.012	98	1870183	100.0	99.8	
18 Ethyl ether	59	6.547	6.547	0.000	92	1010262	100.0	102.1	
20 Acrolein	56	6.772	6.772	0.000	99	871065	500.0	538.7	
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	93	1155945	100.0	98.9	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	1109981	100.0	95.0	
23 Acetone	43	6.914	6.914	0.000	100	1459615	500.0	479.1	
25 Iodomethane	142	7.116	7.104	0.012	98	2127573	100.0	102.9	
26 Carbon disulfide	76	7.211	7.199	0.012	100	4199569	100.0	102.6	
27 Methyl acetate	43	7.223	7.222	0.001	98	3878982	500.0	489.3	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	90	1878123	100.0	96.7	
30 Methylene Chloride	84	7.389	7.389	0.000	94	1181278	100.0	94.7	
31 2-Methyl-2-propanol	59	7.401	7.400	0.001	98	1249866	1000.0	1052.5	
32 Methyl tert-butyl ether	73	7.567	7.566	0.001	95	3246759	100.0	102.8	
33 Acrylonitrile	53	7.614	7.614	0.000	99	3859895	1000.0	994.0	
34 trans-1,2-Dichloroethene	96	7.638	7.626	0.012	99	1173245	100.0	91.8	
35 Hexane	57	7.792	7.792	0.000	93	1639315	100.0	98.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.970	7.970	0.000	97	4726826	200.0	219.7	
39 1,1-Dichloroethane	63	8.029	8.029	0.000	96	2027351	100.0	97.4	
43 2-Butanone (MEK)	43	8.480	8.480	0.000	100	2541410	500.0	514.9	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	64	1606317	100.0	97.9	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	81	1365016	100.0	96.8	
48 Chlorobromomethane	128	8.741	8.740	0.001	95	692730	100.0	100.8	
50 Chloroform	83	8.752	8.752	0.000	94	2036870	100.0	95.2	
49 Tetrahydrofuran	42	8.764	8.764	0.000	90	676869	200.0	186.8	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	1807284	100.0	101.7	
52 Cyclohexane	56	8.990	8.989	0.001	92	2147800	100.0	99.6	
53 Isobutyl alcohol	43	8.990	9.001	-0.011	95	1632574	2500.0	2630.3	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	98	1568698	100.0	100.3	
55 Carbon tetrachloride	117	9.073	9.072	0.001	96	1674015	100.0	103.3	
57 Benzene	78	9.250	9.238	0.012	96	4537622	100.0	95.4	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	98	1556313	100.0	95.3	
59 n-Heptane	43	9.274	9.274	0.000	93	1557141	100.0	97.1	
62 Trichloroethene	95	9.713	9.713	0.000	98	1268984	100.0	101.0	
64 Methylcyclohexane	83	9.867	9.867	0.000	91	2026198	100.0	103.9	
65 1,2-Dichloropropane	63	9.915	9.914	0.001	97	1254667	100.0	100.8	
66 1,4-Dioxane	88	9.986	9.986	0.000	93	254510	2000.0	2084.8	
67 Dibromomethane	93	10.045	10.045	0.000	94	761887	100.0	102.1	
68 Dichlorobromomethane	83	10.116	10.116	0.000	99	1534779	100.0	108.3	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	92	800308	100.0	117.5	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	99	2005878	100.0	109.2	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	95	5519806	500.0	507.6	
74 Toluene	92	10.709	10.709	0.000	99	3132076	100.0	97.8	
75 Ethyl methacrylate	69	10.780	10.780	0.000	90	1486573	100.0	121.1	
77 trans-1,3-Dichloropropene	75	10.840	10.839	0.001	92	1837296	100.0	107.9	
79 1,1,2-Trichloroethane	83	11.029	11.029	0.000	90	904449	100.0	99.8	
80 2-Hexanone	43	11.112	11.112	0.000	96	4039052	500.0	527.8	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	1441481	100.0	96.6	
82 1,3-Dichloropropane	76	11.172	11.171	0.001	91	1869204	100.0	96.5	
83 Chlorodibromomethane	129	11.385	11.385	0.000	90	1320143	100.0	114.4	
84 Ethylene Dibromide	107	11.527	11.527	0.000	98	1177625	100.0	102.8	
87 Chlorobenzene	112	11.859	11.859	0.000	98	3664770	100.0	95.1	
88 Ethylbenzene	91	11.871	11.871	0.000	98	5912620	100.0	95.3	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	95	1339961	100.0	102.4	
90 m-Xylene & p-Xylene	106	11.954	11.954	0.000	100	2485121	100.0	100.4	
91 o-Xylene	106	12.298	12.298	0.000	96	2391472	100.0	97.3	
92 Styrene	104	12.310	12.310	0.000	93	4006550	100.0	105.9	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	6128584	100.0	99.7	
95 Bromoform	173	12.583	12.583	0.000	99	810305	100.0	117.8	
97 1,1,2,2-Tetrachloroethane	83	12.855	12.855	0.000	95	1453347	100.0	101.9	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	92	431412	100.0	115.3	
99 N-Propylbenzene	91	12.927	12.926	0.001	98	7156943	100.0	99.2	
100 1,2,3-Trichloropropane	110	12.938	12.938	0.000	82	458719	100.0	97.2	
101 Bromobenzene	156	12.974	12.974	0.000	86	1681069	100.0	100.0	
102 1,3,5-Trimethylbenzene	105	13.033	13.045	-0.012	94	5177603	100.0	101.6	
103 2-Chlorotoluene	126	13.093	13.092	0.001	98	1519685	100.0	99.6	
105 4-Chlorotoluene	126	13.176	13.175	0.001	97	1595174	100.0	99.3	
106 tert-Butylbenzene	134	13.377	13.377	0.000	92	1210338	100.0	99.2	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	93	5330926	100.0	100.5	

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	13.567	13.567	0.000	94	6592020	100.0	101.8	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	5739156	100.0	103.6	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	98	3277600	100.0	99.5	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	96	3306935	100.0	98.5	
115 n-Butylbenzene	91	14.089	14.089	0.000	97	5005690	100.0	102.5	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	99	3168540	100.0	100.4	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	97	250537	100.0	110.2	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	95	2316830	100.0	103.3	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	98	838422	100.0	107.2	
121 Naphthalene	128	16.650	16.650	0.000	97	5668417	100.0	107.3	
122 1,2,3-Trichlorobenzene	180	17.030	17.029	0.001	96	2124458	100.0	104.7	
S 125 1,2-Dichloroethene, Total	1				0			188.5	
S 126 1,3-Dichloropropene, Total	1				0			217.0	
S 123 Total BTEX	1				0			486.2	
S 124 Xylenes, Total	1				0			197.7	

Reagents:

8260 CORP mix_00100	Amount Added: 50.00	Units: uL	
GAS CORP mix_00225	Amount Added: 50.00	Units: uL	
C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00098	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170619-63379.b\\C4696.D

Injection Date: 19-Jun-2017 18:15:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 7

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

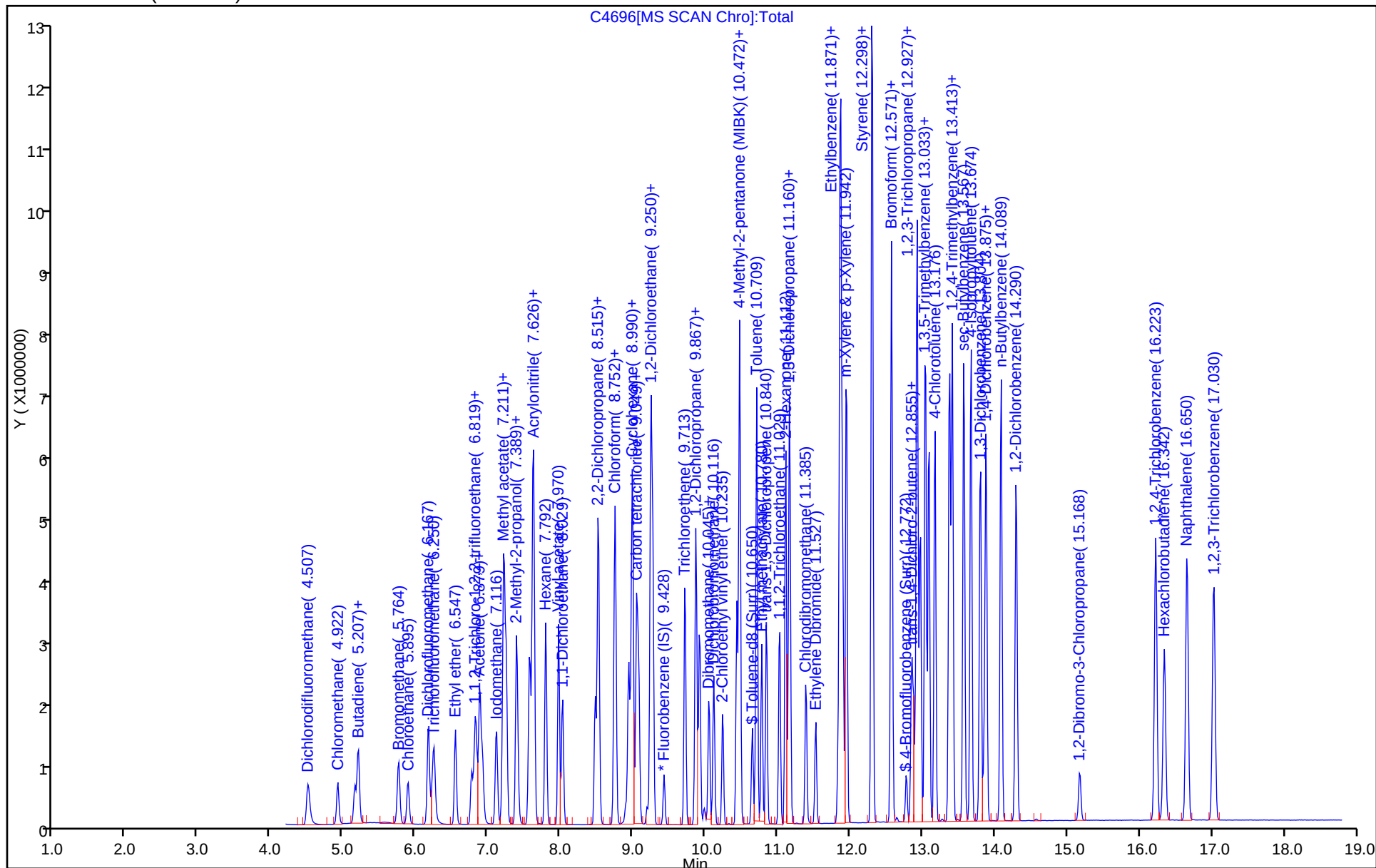
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: C-8260

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.: 480-120094-1 Analy Batch No.: 362749

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2017 20:20 Calibration End Date: 06/19/2017 22:52 Calibration ID: 30746

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-362749/20	C4701.D
Level 2	IC 480-362749/21	C4702.D
Level 3	IC 480-362749/22	C4703.D
Level 4	IC 480-362749/23	C4704.D
Level 5	IC 480-362749/24	C4705.D
Level 6	IC 480-362749/25	C4706.D
Level 7	IC 480-362749/26	C4707.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Chlorodifluoromethane	1.9230 2.0021	1.9455 2.3061	2.4824	2.1399	2.0315	Ave		2.1186				9.8		20.0			
Ethanol	++++ 0.0216	0.0200 0.0225	0.0232	0.0235	0.0218	Ave		0.0221				5.7		20.0			
Isopropyl alcohol	0.1088 0.1123	0.0957 0.1183	0.1270	0.1195	0.1121	Ave		0.1134				8.7		20.0			
Acetonitrile	0.1441 0.1172	0.1347 0.1240	0.1364	0.1314	0.1178	Ave		0.1294				7.8		20.0			
Halothane	1.1706 1.3618	1.4506 1.5049	1.5123	1.4488	1.3550	Ave		1.4006				8.5		20.0			
Isopropyl ether	5.4729 5.8817	5.2589 6.4304	6.6705	6.2527	5.9355	Ave		5.9861				8.5		20.0			
1,1-Dimethoxyethane	0.2396 0.3094	0.2536 0.3430	0.3097	0.3162	0.2999	Ave		0.2959				12.3		20.0			
Chloroprene	1.8668 2.6331	2.1708 2.9798	2.8402	2.6427	2.6142	Ave		2.5354				15.3		20.0			
Tert-butyl ethyl ether	4.9085 5.5899	5.0440 6.1382	6.2159	5.9462	5.5883	Ave		5.6330				9.1		20.0			
Ethyl acetate	1.5846 1.5867	1.5024 1.7134	1.7364	1.7076	1.5770	Ave		1.6297				5.4		20.0			
Propionitrile	0.2204 0.2499	0.2423 0.2633	0.2827	0.2805	0.2508	Ave		0.2557				8.6		20.0			
Methacrylonitrile	1.0288 1.0184	1.0537 1.0268	1.1963	1.1806	1.0660	Ave		1.0815				6.9		20.0			
t-Amyl alcohol	0.1064 0.1492	0.1208 0.1596	0.1502	0.1494	0.1434	Ave		0.1399				13.6		15.0			
Isooctane	++++ 5.3018	4.6952 5.6615	6.1863	5.6835	5.4001	Ave		5.4881				9.0		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.: 480-120094-1 Analy Batch No.: 362749
SDG No.: _____
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/19/2017 20:20 Calibration End Date: 06/19/2017 22:52 Calibration ID: 30746

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-amyl methyl ether	5.8011 5.1434	4.7862 5.5814	5.7482	5.5307	5.1602	Ave		5.3930				6.9		20.0			
1,4-Difluorobenzene	5.4850 5.6920	5.5898 6.2267	6.8697	6.1944	5.7954	Ave		5.9790				8.1		20.0			
n-Butanol	++++ 0.0535	0.0373 0.0570	0.0464	0.0498	0.0427	Ave		0.0478				15.1		20.0			
Ethyl acrylate	1.5586 2.2682	1.6618 2.3423	2.0994	2.1020	2.0650	Ave		2.0139				14.6		20.0			
Methyl methacrylate	1.6324 1.5064	1.3528 1.6077	1.4874	1.5123	1.5068	Ave		1.5151				6.0		20.0			
2-Nitropropane	0.3637 0.4276	0.3202 0.5014	0.3489	0.3668	0.3892	Ave		0.3882				15.4		20.0			
Epichlorohydrin	0.1480 0.1822	0.1421 0.1970	0.1763	0.1861	0.1787	Ave		0.1729				11.7		20.0			
2-Methylthiophene	++++ 3.2030	3.4981 3.3206	3.1548	3.1164	3.2853	Ave		3.2630				4.2		20.0			
3-Methylthiophene	++++ 3.1961	2.9808 3.1442	3.1376	3.0546	3.1583	Ave		3.1119				2.5		20.0			
n-Butyl acetate	0.9715 1.3780	0.9191 1.4021	1.1697	1.2036	1.2997	Ave		1.1920			0.1000	15.8		20.0			
3-Chlorobenzotrifluoride	1.1257 1.4032	1.1276 1.4637	1.4537	1.3607	1.4106	Ave		1.3350				11.0		20.0			
1-Chlorohexane	++++ 0.9391	0.7050 0.9558	0.9527	0.9067	0.9553	Ave		0.9024				10.9		20.0			
4-Chlorobenzotrifluoride	1.2418 1.5408	1.2547 1.5816	1.6561	1.4792	1.5681	Ave		1.4746				11.1		20.0			
2-Chlorobenzotrifluoride	++++ 1.4558	1.1375 1.5360	1.4806	1.3787	1.4379	Ave		1.4044				10.0		20.0			
Cyclohexanone	++++ 0.0314	0.0309 0.0311	0.0299	0.0288	0.0301	Ave		0.0304				3.2		20.0			
3-Chlorotoluene	0.9794 1.2143	0.9430 1.2614	1.2241	1.1527	1.2008	Ave		1.1394				11.1		20.0			
Pentachloroethane	0.3704 0.5544	0.3685 0.6034	0.4977	0.4922	0.5321	Ave		0.4884				18.3		20.0			
1,2,3-Trimethylbenzene	3.4919 4.1345	3.2597 4.2503	4.0343	3.9007	4.1013	Ave		3.8818				9.5		20.0			
Dicyclopentadiene	++++ 1.0718	0.8109 1.1382	1.0161	0.9694	1.0529	Ave		1.0099				11.2		20.0			
Benzyl chloride	++++ 0.4396	0.3052 0.4647	0.3646	0.3734	0.4187	Ave		0.3944				14.7		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.: 480-120094-1 Analy Batch No.: 362749

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2017 20:20 Calibration End Date: 06/19/2017 22:52 Calibration ID: 30746

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,3,5-Trichlorobenzene	++++ 1.7445	1.4299 1.8359	1.7042	1.6348	1.7145	Ave		1.6773				8.2		20.0			
2-Methylnaphthalene	++++ 2.7143	1.5982 ++++	2.0563	2.2175	2.4660	Ave		2.2104				19.2		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.: 480-120094-1 Analy Batch No.: 362749

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2017 20:20 Calibration End Date: 06/19/2017 22:52 Calibration ID: 30746

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-362749/20	C4701.D
Level 2	IC 480-362749/21	C4702.D
Level 3	IC 480-362749/22	C4703.D
Level 4	IC 480-362749/23	C4704.D
Level 5	IC 480-362749/24	C4705.D
Level 6	IC 480-362749/25	C4706.D
Level 7	IC 480-362749/26	C4707.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	4143 642106	10430 1362546	68051	122605	326618	0.400 50.0	1.00 100	5.00	10.0	25.0
Ethanol	FB	Ave	++++ 276984	4293 532822	25425	53862	140137	++++ 2000	40.0 4000	200	400	1000
Isopropyl alcohol	FB	Ave	2345 360045	5132 698918	34804	68474	180256	4.00 500	10.0 1000	50.0	100	250
Acetonitrile	FB	Ave	3105 375968	7219 732717	37382	75292	189332	4.00 500	10.0 1000	50.0	100	250
Halothane	FB	Ave	2522 436768	7777 889172	41457	83012	217843	0.400 50.0	1.00 100	5.00	10.0	25.0
Isopropyl ether	FB	Ave	11791 1886395	28194 3799412	182863	358249	954280	0.400 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	2581 496160	6798 1013251	42450	90597	241078	2.00 250	5.00 500	25.0	50.0	125
Chloroprene	FB	Ave	4022 844504	11638 1760587	77861	151415	420296	0.400 50.0	1.00 100	5.00	10.0	25.0
Tert-butyl ethyl ether	FB	Ave	10575 1792813	27042 3626763	170399	340688	898457	0.400 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	6828 1017787	16109 2024758	95202	195669	507078	0.800 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	4749 801579	12988 1555619	77504	160708	403236	4.00 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	22165 3266128	56490 6067099	327959	676412	1713887	4.00 500	10.0 1000	50.0	100	250
t-Amyl alcohol	FB	Ave	2292 478668	6475 943246	41183	85598	230589	4.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	++++ 1700407	25172 3345061	169590	325637	868197	++++ 50.0	1.00 100	5.00	10.0	25.0
Tert-amyl methyl ether	FB	Ave	12498 1649587	25660 3297782	157578	316885	829626	0.400 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.: 480-120094-1 Analy Batch No.: 362749

SDG No.: _____

Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2017 20:20 Calibration End Date: 06/19/2017 22:52 Calibration ID: 30746

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Difluorobenzene	FB	Ave	11817 1825541	29968 3679033	188324	354910	931745	0.400 50.0	1.00 100	5.00	10.0	25.0
n-Butanol	FB	Ave	++++ 429155	4993 842100	31805	71316	171687	++++ 1250	25.0 2500	125	250	625
Ethyl acrylate	FB	Ave	3358 727446	8909 1383960	57551	120432	331999	0.400 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	7034 966291	14505 1899867	81550	173293	484506	0.800 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	FB	Ave	1567 274252	3433 592470	19131	42034	125155	0.800 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Ave	3189 584217	7616 1163757	48330	106600	287268	4.00 500	10.0 1000	50.0	100	250
2-Methylthiophene	DCBd 4	Ave	++++ 2071573	44503 4232450	200192	404570	1080725	++++ 50.0	1.00 100	5.00	10.0	25.0
3-Methylthiophene	DCBd 4	Ave	++++ 2067100	37922 4007498	199100	396550	1038931	++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butyl acetate	DCBd 4	Ave	5046 891243	11693 1787125	74226	156248	427536	0.400 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCBd 4	Ave	5847 907502	14345 1865656	92244	176650	464016	0.400 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBNZ d5	Ave	++++ 568585	8364 1152392	56846	110421	291736	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCBd 4	Ave	6450 996545	15962 2015856	105089	192026	515834	0.400 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCBd 4	Ave	++++ 941527	14471 1957780	93954	178985	472987	++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCBd 4	Ave	++++ 203403	3926 396334	19005	37378	99031	++++ 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCBd 4	Ave	5087 785363	11997 1607726	77675	149642	395006	0.400 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCBd 4	Ave	1924 358582	4688 769102	31585	63895	175045	0.400 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	18137 2674056	41470 5417376	256001	506388	1349139	0.400 50.0	1.00 100	5.00	10.0	25.0
Dicyclopentadiene	DCBd 4	Ave	++++ 693218	10317 1450704	64478	125847	346345	++++ 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	CBNZ d5	Ave	++++ 266155	3621 560329	21757	45481	127866	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	++++ 1128296	18191 2339956	108145	212225	563994	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methylnaphthalene	DCBd 4	Ave	++++ 1755492	20333 ++++	130482	287869	811187	++++ 50.0	1.00 ++++	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.: 480-120094-1 Analy Batch No.: 362749
SDG No.: _____
Instrument ID: HP5973C GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/19/2017 20:20 Calibration End Date: 06/19/2017 22:52 Calibration ID: 30746

Curve Type Legend:

Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4701.D
 Lims ID: IC 8
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 19-Jun-2017 20:20:30 ALS Bottle#: 28 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 8
 Misc. Info.: 480-0063379-020
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub91
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 20-Jun-2017 12:21:15 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: reiler

Date: 19-Jun-2017 22:37:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	134652	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	85	307789	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.851	0.001	94	324623	25.0	25.0	
11 Chlorodifluoromethane	51	4.531	4.543	-0.012	93	4143	0.4000	0.3631	
148 Ethanol	45		6.452				ND	ND	
19 Propene oxide	58	6.677	6.677	0.000	89	3411	NC	NC	
24 Isopropyl alcohol	45	7.021	7.009	0.012	95	2345	4.00	3.84	
29 Acetonitrile	40	7.258	7.246	0.012	88	3105	4.00	4.46	M
135 Halothane	117	7.922	7.922	0.000	82	2522	0.4000	0.3343	
36 Isopropyl ether	45	7.946	7.946	0.000	91	11791	0.4000	0.3657	
38 1,1-Dimethoxyethane	75	8.029	8.029	0.000	94	2581	2.00	1.62	
40 2-Chloro-1,3-butadiene	53	8.076	8.088	-0.012	92	4022	0.4000	0.2945	
41 Tert-butyl ethyl ether	59	8.254	8.254	0.000	93	10575	0.4000	0.3486	
42 Ethyl acetate	43	8.456	8.456	0.000	94	6828	0.8000	0.7779	
46 Propionitrile	54	8.575	8.574	0.001	92	4749	4.00	3.45	
47 Methacrylonitrile	41	8.681	8.681	0.000	81	22165	4.00	3.81	
147 t-Amyl alcohol	59	9.096	9.096	0.000	86	2292	4.00	3.04	
152 Isooctane	57	9.179	9.191	-0.012	32	7772	0.4000	0.2629	
56 Tert-amyl methyl ether	73	9.215	9.203	0.012	95	12498	0.4000	0.4303	
1 1,4-Difluorobenzene	114	9.464	9.464	0.000	92	11817	0.4000	0.3669	
60 n-Butanol	56	9.511	9.499	0.012	8	1468	10.0	5.70	
141 2,4,4-Trimethyl-1-pentene	55	9.594	9.594	0.000	92	1723	NC	NC	
142 Ethyl acrylate	55	9.654	9.654	0.000	91	3358	0.4000	0.3096	
140 2,4,4-Trimethyl-2-pentene	97	9.737	9.737	0.000	82	6658	NC	NC	
63 Methyl methacrylate	41	9.843	9.843	0.000	90	7034	0.8000	0.8619	
70 2-Nitropropane	43	10.270	10.270	0.000	86	1567	0.8000	0.7494	
71 Epichlorohydrin	57	10.377	10.365	0.012	87	3189	4.00	3.42	
76 2-Methylthiophene	97	10.828	10.828	0.000	95	13768	0.4000	0.3249	
78 3-Methylthiophene	97	10.958	10.958	0.000	95	13079	0.4000	0.3237	
155 n-Butyl acetate	43	11.136	11.124	0.012	93	5046	0.4000	0.3260	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	11.681	11.681	0.000	1	5847	0.4000	0.3373	
146 1-Chlorohexane	55	11.693	11.693	0.000	64	2781	0.4000	0.2503	
86 4-Chlorobenzotrifluoride	180	11.717	11.717	0.000	92	6450	0.4000	0.3369	
93 2-Chlorobenzotrifluoride	180	12.464	12.464	0.000	94	5515	0.4000	0.3024	
96 Cyclohexanone	55	12.772	12.772	0.000	36	1811	4.00	4.59	
104 3-Chlorotoluene	126	13.128	13.128	0.000	92	5087	0.4000	0.3438	
108 Pentachloroethane	167	13.496	13.496	0.000	71	1924	0.4000	0.3034	
112 1,2,3-Trimethylbenzene	105	13.852	13.851	0.001	47	18137	0.4000	0.3598	
114 Dicyclopentadiene	66	13.911	13.911	0.000	88	3996	0.4000	0.3047	
150 Benzyl chloride	126	13.982	13.994	-0.012	1	1055	0.4000	0.2173	
118 1,3,5-Trichlorobenzene	180	15.369	15.369	0.000	95	7317	0.4000	0.3360	
149 2-Methylnaphthalene	142	18.631	18.619	0.012	86	7560	0.4000	0.2634	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00058	Amount Added: 0.40	Units: uL
3_MCP_Add_WRK_00133	Amount Added: 0.40	Units: uL
3MTP_WRK_00063	Amount Added: 0.40	Units: uL
2MTP_WRK_00062	Amount Added: 0.40	Units: uL
C_8260_IS_00089	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4701.D

Injection Date: 19-Jun-2017 20:20:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 8

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

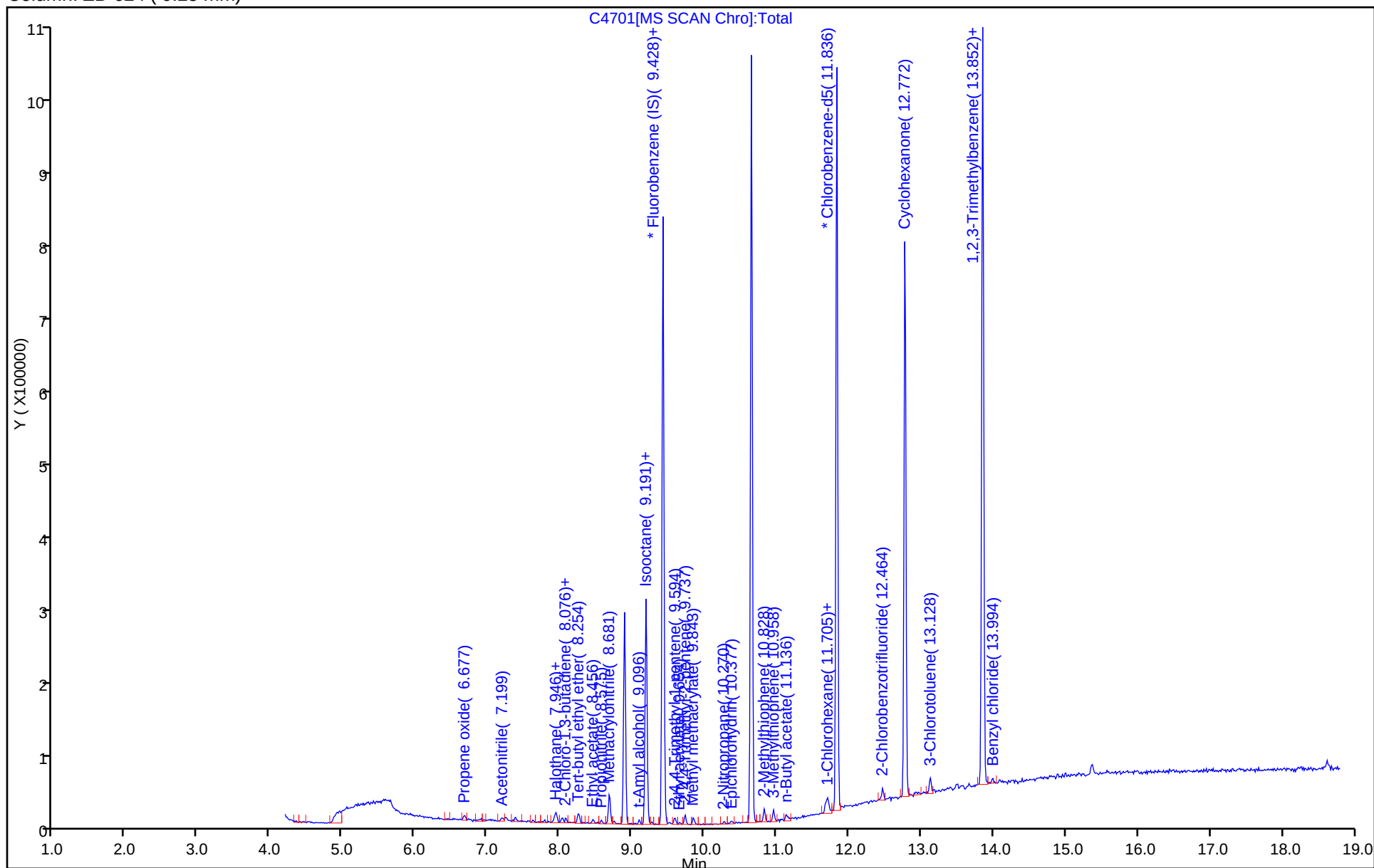
Dil. Factor: 1.0000

ALS Bottle#: 28

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4701.D

Injection Date: 19-Jun-2017 20:20:30

Instrument ID: HP5973C

Lims ID: IC 8

Client ID:

Operator ID: LH

ALS Bottle#:

28

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

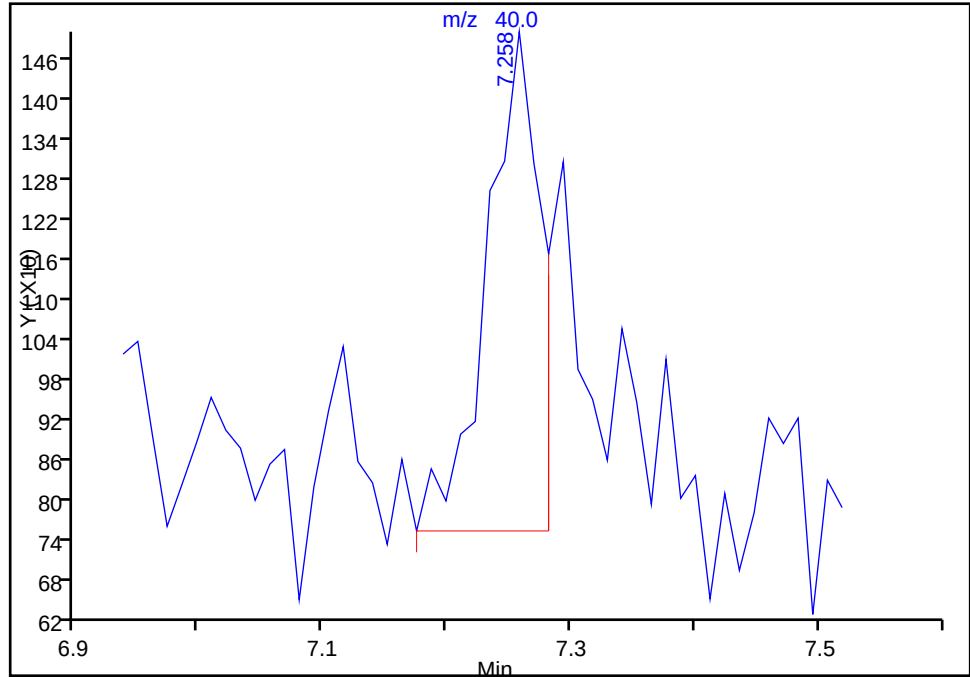
Detector: MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

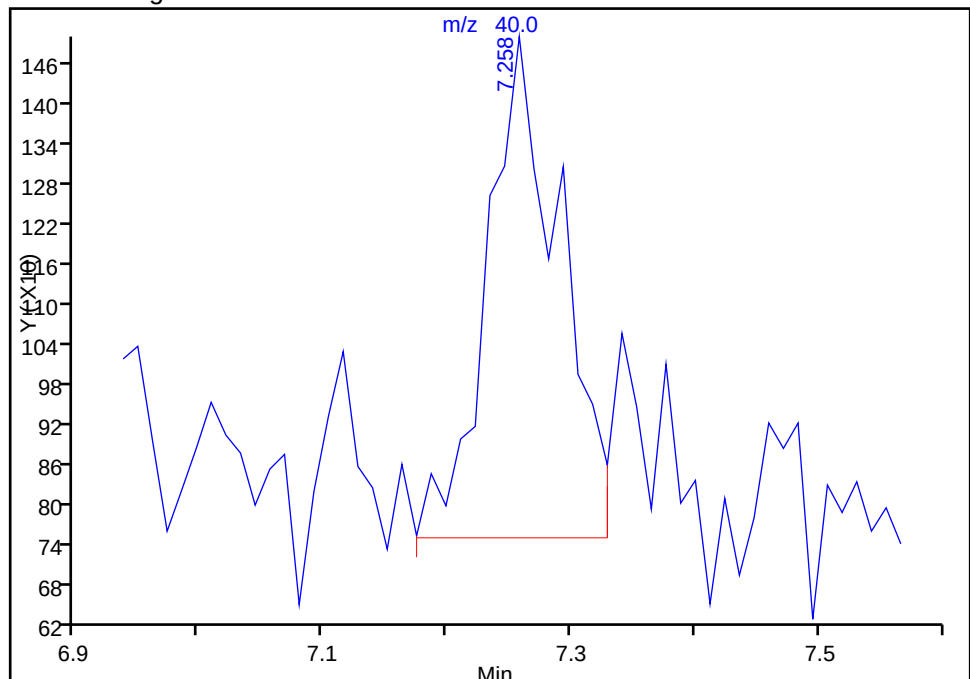
RT: 7.26
Area: 2294
Amount: 3.398236
Amount Units: ug/L

Processing Integration Results



RT: 7.26
Area: 3105
Amount: 4.456313
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 19-Jun-2017 22:37:30

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4702.D
 Lims ID: IC 9
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 19-Jun-2017 20:46:30 ALS Bottle#: 29 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 9
 Misc. Info.: 480-0063379-021
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub91
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 20-Jun-2017 12:21:17 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: reiler

Date: 19-Jun-2017 22:43:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	134030	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.835	11.836	-0.001	84	296583	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.851	0.000	94	318054	25.0	25.0	
11 Chlorodifluoromethane	51	4.531	4.543	-0.012	95	10430	1.00	0.9183	
148 Ethanol	45	6.452	6.452	0.000	85	4293	40.0	36.2	
19 Propene oxide	58	6.677	6.677	0.000	92	9247	NC	NC	
24 Isopropyl alcohol	45	7.021	7.009	0.012	95	5132	10.0	8.44	
29 Acetonitrile	40	7.258	7.246	0.012	95	7219	10.0	10.4	
135 Halothane	117	7.910	7.922	-0.012	90	7777	1.00	1.04	
36 Isopropyl ether	45	7.946	7.946	0.000	92	28194	1.00	0.8785	
38 1,1-Dimethoxyethane	75	8.029	8.029	0.000	94	6798	5.00	4.28	
40 2-Chloro-1,3-butadiene	53	8.088	8.088	0.000	89	11638	1.00	0.8562	
41 Tert-butyl ethyl ether	59	8.254	8.254	0.000	97	27042	1.00	0.8954	
42 Ethyl acetate	43	8.456	8.456	0.000	97	16109	2.00	1.84	
46 Propionitrile	54	8.574	8.574	0.000	97	12988	10.0	9.47	
47 Methacrylonitrile	41	8.681	8.681	0.000	90	56490	10.0	9.74	
147 t-Amyl alcohol	59	9.096	9.096	0.000	89	6475	10.0	8.63	
152 Isooctane	57	9.179	9.191	-0.012	36	25172	1.00	0.8555	
56 Tert-amyl methyl ether	73	9.203	9.203	0.000	96	25660	1.00	0.8875	
1 1,4-Difluorobenzene	114	9.464	9.464	0.000	92	29968	1.00	0.9349	
60 n-Butanol	56	9.511	9.499	0.012	88	4993	25.0	19.5	
141 2,4,4-Trimethyl-1-pentene	55	9.594	9.594	0.000	97	5215	NC	NC	
142 Ethyl acrylate	55	9.653	9.654	-0.001	96	8909	1.00	0.8251	
140 2,4,4-Trimethyl-2-pentene	97	9.736	9.737	-0.001	84	16351	NC	NC	
63 Methyl methacrylate	41	9.843	9.843	0.000	91	14505	2.00	1.79	
70 2-Nitropropane	43	10.270	10.270	0.000	88	3433	2.00	1.65	
71 Epichlorohydrin	57	10.365	10.365	0.000	96	7616	10.0	8.22	
76 2-Methylthiophene	97	10.827	10.828	-0.001	97	44503	1.00	1.07	
78 3-Methylthiophene	97	10.958	10.958	0.000	98	37922	1.00	0.9579	
155 n-Butyl acetate	43	11.136	11.124	0.012	94	11693	1.00	0.7711	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	11.681	11.681	0.000	40	14345	1.00	0.8446	
146 1-Chlorohexane	55	11.693	11.693	0.000	96	8364	1.00	0.7813	
86 4-Chlorobenzotrifluoride	180	11.717	11.717	0.000	95	15962	1.00	0.8508	
93 2-Chlorobenzotrifluoride	180	12.464	12.464	0.000	96	14471	1.00	0.8099	
96 Cyclohexanone	55	12.772	12.772	0.000	36	3926	10.0	10.2	
104 3-Chlorotoluene	126	13.128	13.128	0.000	96	11997	1.00	0.8276	
108 Pentachloroethane	167	13.496	13.496	0.000	87	4688	1.00	0.7545	
112 1,2,3-Trimethylbenzene	105	13.851	13.851	0.000	80	41470	1.00	0.8397	
114 Dicyclopentadiene	66	13.911	13.911	0.000	91	10317	1.00	0.8030	
150 Benzyl chloride	126	13.994	13.994	0.000	97	3621	1.00	0.7739	
118 1,3,5-Trichlorobenzene	180	15.369	15.369	0.000	96	18191	1.00	0.8525	
149 2-Methylnaphthalene	142	18.618	18.619	-0.001	94	20333	1.00	0.7230	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL
ADD CORP mix_00058	Amount Added: 1.00	Units: uL
3_MCP_Add_WRK_00133	Amount Added: 1.00	Units: uL
3MTP_WRK_00063	Amount Added: 1.00	Units: uL
2MTP_WRK_00062	Amount Added: 1.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4702.D

Injection Date: 19-Jun-2017 20:46:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 9

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

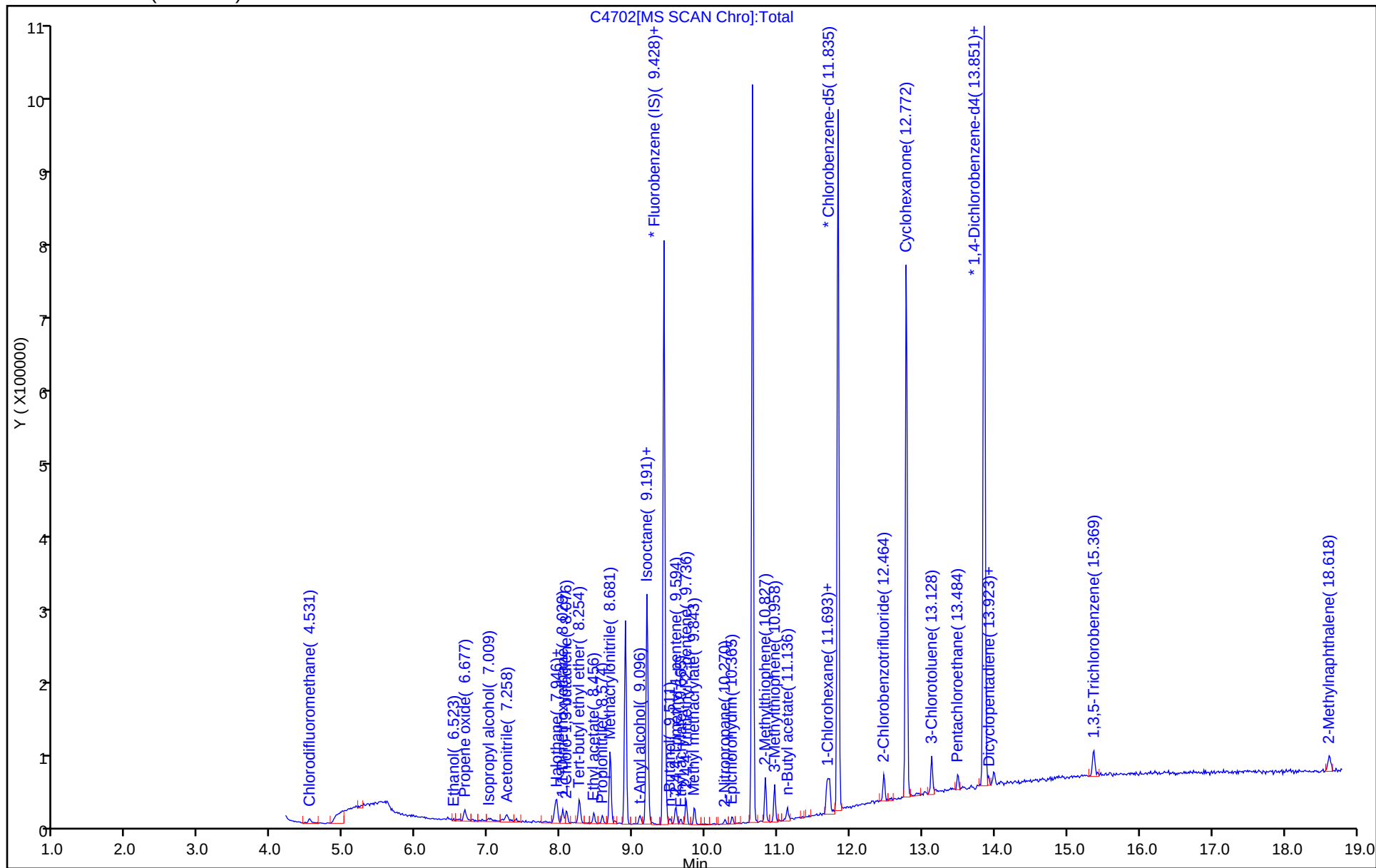
Dil. Factor: 1.0000

ALS Bottle#: 29

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4703.D
 Lims ID: IC 10
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 19-Jun-2017 21:10:30 ALS Bottle#: 30 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 10
 Misc. Info.: 480-0063379-022
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub91
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 20-Jun-2017 12:21:19 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: reiler

Date: 19-Jun-2017 22:43:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	137068	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	84	298342	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.851	0.001	95	317281	25.0	25.0	
11 Chlorodifluoromethane	51	4.543	4.543	0.000	98	68051	5.00	5.86	
148 Ethanol	45	6.452	6.452	0.000	97	25425	200.0	209.8	
19 Propene oxide	58	6.677	6.677	0.000	97	59466	NC	NC	
24 Isopropyl alcohol	45	7.009	7.009	0.000	96	34804	50.0	56.0	
29 Acetonitrile	40	7.246	7.246	0.000	99	37382	50.0	52.7	
135 Halothane	117	7.922	7.922	0.000	94	41457	5.00	5.40	
36 Isopropyl ether	45	7.946	7.946	0.000	94	182863	5.00	5.57	
38 1,1-Dimethoxyethane	75	8.029	8.029	0.000	96	42450	25.0	26.2	
40 2-Chloro-1,3-butadiene	53	8.088	8.088	0.000	91	77861	5.00	5.60	
41 Tert-butyl ethyl ether	59	8.254	8.254	0.000	97	170399	5.00	5.52	
42 Ethyl acetate	43	8.456	8.456	0.000	99	95202	10.0	10.7	
46 Propionitrile	54	8.575	8.574	0.001	99	77504	50.0	55.3	
47 Methacrylonitrile	41	8.681	8.681	0.000	94	327959	50.0	55.3	
147 t-Amyl alcohol	59	9.096	9.096	0.000	95	41183	50.0	53.7	
152 Isooctane	57	9.179	9.191	-0.012	96	169590	5.00	5.64	
56 Tert-amyl methyl ether	73	9.203	9.203	0.000	98	157578	5.00	5.33	
1 1,4-Difluorobenzene	114	9.464	9.464	0.000	93	188324	5.00	5.74	
60 n-Butanol	56	9.511	9.499	0.012	93	31805	125.0	121.4	
141 2,4,4-Trimethyl-1-pentene	55	9.594	9.594	0.000	99	33089	NC	NC	
142 Ethyl acrylate	55	9.654	9.654	0.000	99	57551	5.00	5.21	
140 2,4,4-Trimethyl-2-pentene	97	9.737	9.737	0.000	83	100859	NC	NC	
63 Methyl methacrylate	41	9.843	9.843	0.000	94	81550	10.0	9.82	
70 2-Nitropropane	43	10.270	10.270	0.000	94	19131	10.0	8.99	
71 Epichlorohydrin	57	10.365	10.365	0.000	99	48330	50.0	51.0	
76 2-Methylthiophene	97	10.828	10.828	0.000	97	200192	5.00	4.83	
78 3-Methylthiophene	97	10.958	10.958	0.000	98	199100	5.00	5.04	
155 n-Butyl acetate	43	11.136	11.124	0.012	98	74226	5.00	4.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	11.682	11.681	0.001	86	92244	5.00	5.44	
146 1-Chlorohexane	55	11.693	11.693	0.000	98	56846	5.00	5.28	
86 4-Chlorobenzotrifluoride	180	11.717	11.717	0.000	97	105089	5.00	5.62	
93 2-Chlorobenzotrifluoride	180	12.464	12.464	0.000	97	93954	5.00	5.27	
96 Cyclohexanone	55	12.773	12.772	0.000	40	19005	50.0	49.3	
104 3-Chlorotoluene	126	13.128	13.128	0.000	96	77675	5.00	5.37	
108 Pentachloroethane	167	13.484	13.496	-0.012	89	31585	5.00	5.10	
112 1,2,3-Trimethylbenzene	105	13.852	13.851	0.001	90	256001	5.00	5.20	
114 Dicyclopentadiene	66	13.911	13.911	0.000	97	64478	5.00	5.03	
150 Benzyl chloride	126	13.994	13.994	0.000	98	21757	5.00	4.62	
118 1,3,5-Trichlorobenzene	180	15.370	15.369	0.001	97	108145	5.00	5.08	
149 2-Methylnaphthalene	142	18.619	18.619	0.000	93	130482	5.00	4.65	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL
ADD CORP mix_00058	Amount Added: 5.00	Units: uL
3_MCP_Add_WRK_00133	Amount Added: 5.00	Units: uL
3MTP_WRK_00063	Amount Added: 5.00	Units: uL
2MTP_WRK_00062	Amount Added: 5.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170619-63379.b\\C4703.D

Injection Date: 19-Jun-2017 21:10:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 10

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

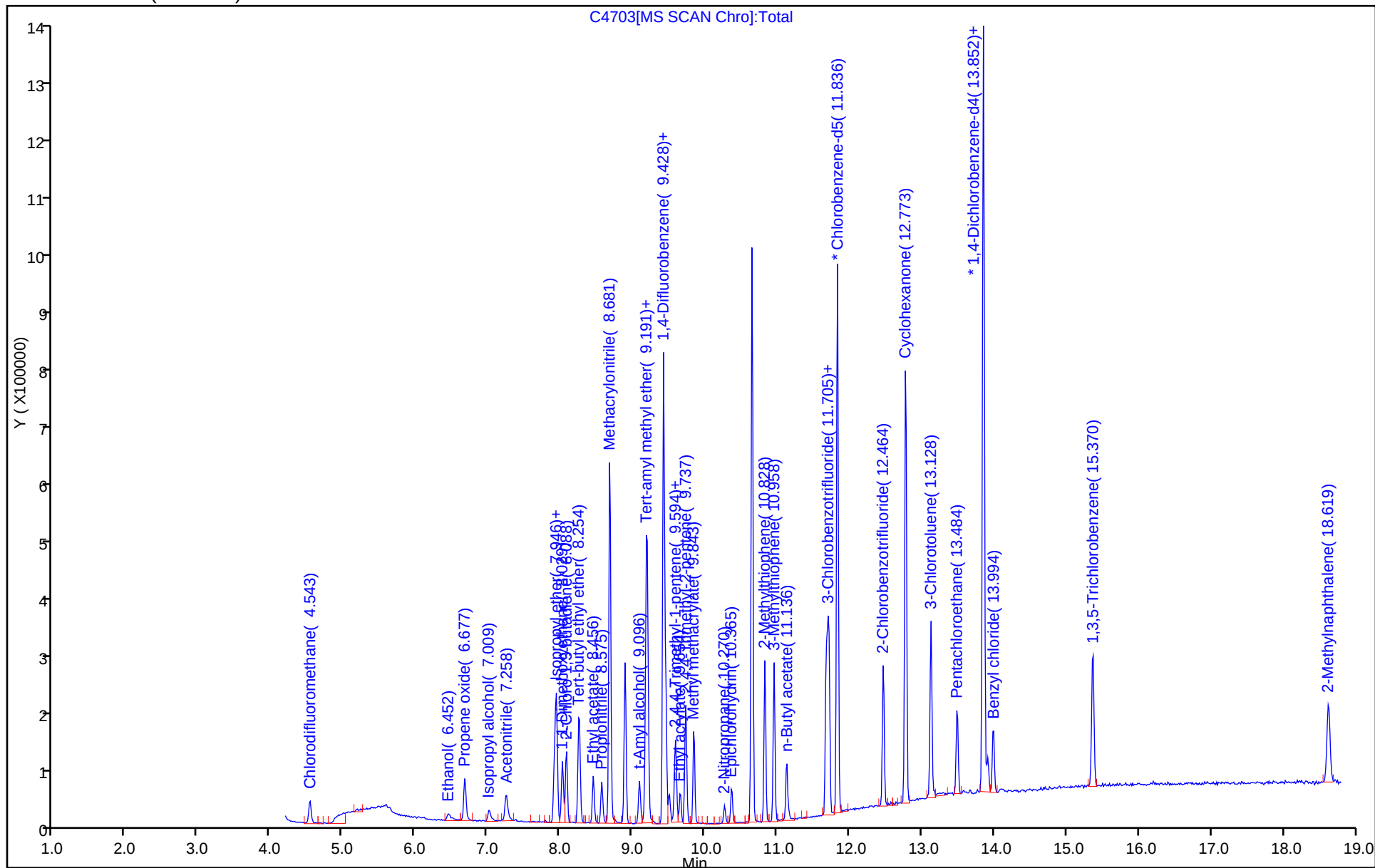
Dil. Factor: 1.0000

ALS Bottle#: 30

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4704.D
 Lims ID: IC 11
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Jun-2017 21:36:30 ALS Bottle#: 31 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 11
 Misc. Info.: 480-0063379-023
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub91
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 20-Jun-2017 12:21:20 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: reiler

Date: 19-Jun-2017 22:44:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	143238	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	84	304472	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.852	0.000	96	324547	25.0	25.0	
11 Chlorodifluoromethane	51	4.531	4.531	0.000	97	122605	10.0	10.1	
148 Ethanol	45	6.440	6.440	0.000	99	53862	400.0	425.3	
19 Propene oxide	58	6.677	6.677	0.000	96	118871	NC	NC	
24 Isopropyl alcohol	45	7.009	7.009	0.000	97	68474	100.0	105.4	
29 Acetonitrile	40	7.246	7.246	0.000	98	75292	100.0	101.6	
135 Halothane	117	7.911	7.911	0.000	94	83012	10.0	10.3	
36 Isopropyl ether	45	7.946	7.946	0.000	94	358249	10.0	10.4	
38 1,1-Dimethoxyethane	75	8.029	8.029	0.000	96	90597	50.0	53.4	
40 2-Chloro-1,3-butadiene	53	8.077	8.077	0.000	91	151415	10.0	10.4	
41 Tert-butyl ethyl ether	59	8.254	8.254	0.000	98	340688	10.0	10.6	
42 Ethyl acetate	43	8.456	8.456	0.000	99	195669	20.0	21.0	
46 Propionitrile	54	8.575	8.575	0.000	100	160708	100.0	109.7	
47 Methacrylonitrile	41	8.681	8.681	0.000	93	676412	100.0	109.2	
147 t-Amyl alcohol	59	9.096	9.096	0.000	97	85598	100.0	106.8	
152 Isooctane	57	9.179	9.179	0.000	97	325637	10.0	10.4	
56 Tert-amyl methyl ether	73	9.203	9.203	0.000	96	316885	10.0	10.3	
1 1,4-Difluorobenzene	114	9.464	9.464	0.000	93	354910	10.0	10.4	
60 n-Butanol	56	9.500	9.500	0.000	92	71316	250.0	260.5	
141 2,4,4-Trimethyl-1-pentene	55	9.594	9.594	0.000	99	69305	NC	NC	
142 Ethyl acrylate	55	9.654	9.654	0.000	99	120432	10.0	10.4	
140 2,4,4-Trimethyl-2-pentene	97	9.737	9.737	0.000	83	211298	NC	NC	
63 Methyl methacrylate	41	9.843	9.843	0.000	93	173293	20.0	20.0	
70 2-Nitropropane	43	10.270	10.270	0.000	96	42034	20.0	18.9	
71 Epichlorohydrin	57	10.365	10.365	0.000	99	106600	100.0	107.6	
76 2-Methylthiophene	97	10.828	10.828	0.000	97	404570	10.0	9.55	
78 3-Methylthiophene	97	10.958	10.958	0.000	98	396550	10.0	9.82	
155 n-Butyl acetate	43	11.124	11.124	0.000	99	156248	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	11.682	11.682	0.000	89	176650	10.0	10.2	
146 1-Chlorohexane	55	11.693	11.693	0.000	98	110421	10.0	10.0	
86 4-Chlorobenzotrifluoride	180	11.717	11.717	0.000	97	192026	10.0	10.0	
93 2-Chlorobenzotrifluoride	180	12.464	12.464	0.000	98	178985	10.0	9.82	
96 Cyclohexanone	55	12.773	12.773	0.000	43	37378	100.0	94.8	
104 3-Chlorotoluene	126	13.128	13.128	0.000	96	149642	10.0	10.1	
108 Pentachloroethane	167	13.496	13.496	0.000	90	63895	10.0	10.1	
112 1,2,3-Trimethylbenzene	105	13.852	13.852	0.000	95	506388	10.0	10.0	
114 Dicyclopentadiene	66	13.911	13.911	0.000	96	125847	10.0	9.60	
150 Benzyl chloride	126	13.994	13.994	0.000	98	45481	10.0	9.47	
118 1,3,5-Trichlorobenzene	180	15.370	15.370	0.000	98	212225	10.0	9.75	
149 2-Methylnaphthalene	142	18.619	18.619	0.000	93	287869	10.0	10.0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL
ADD CORP mix_00058	Amount Added: 5.00	Units: uL
3_MCP_Add_WRK_00133	Amount Added: 5.00	Units: uL
3MTP_WRK_00063	Amount Added: 5.00	Units: uL
2MTP_WRK_00062	Amount Added: 5.00	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4704.D

Injection Date: 19-Jun-2017 21:36:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 11

Worklist Smp#: 23

Client ID:

Purge Vol: 5.000 mL

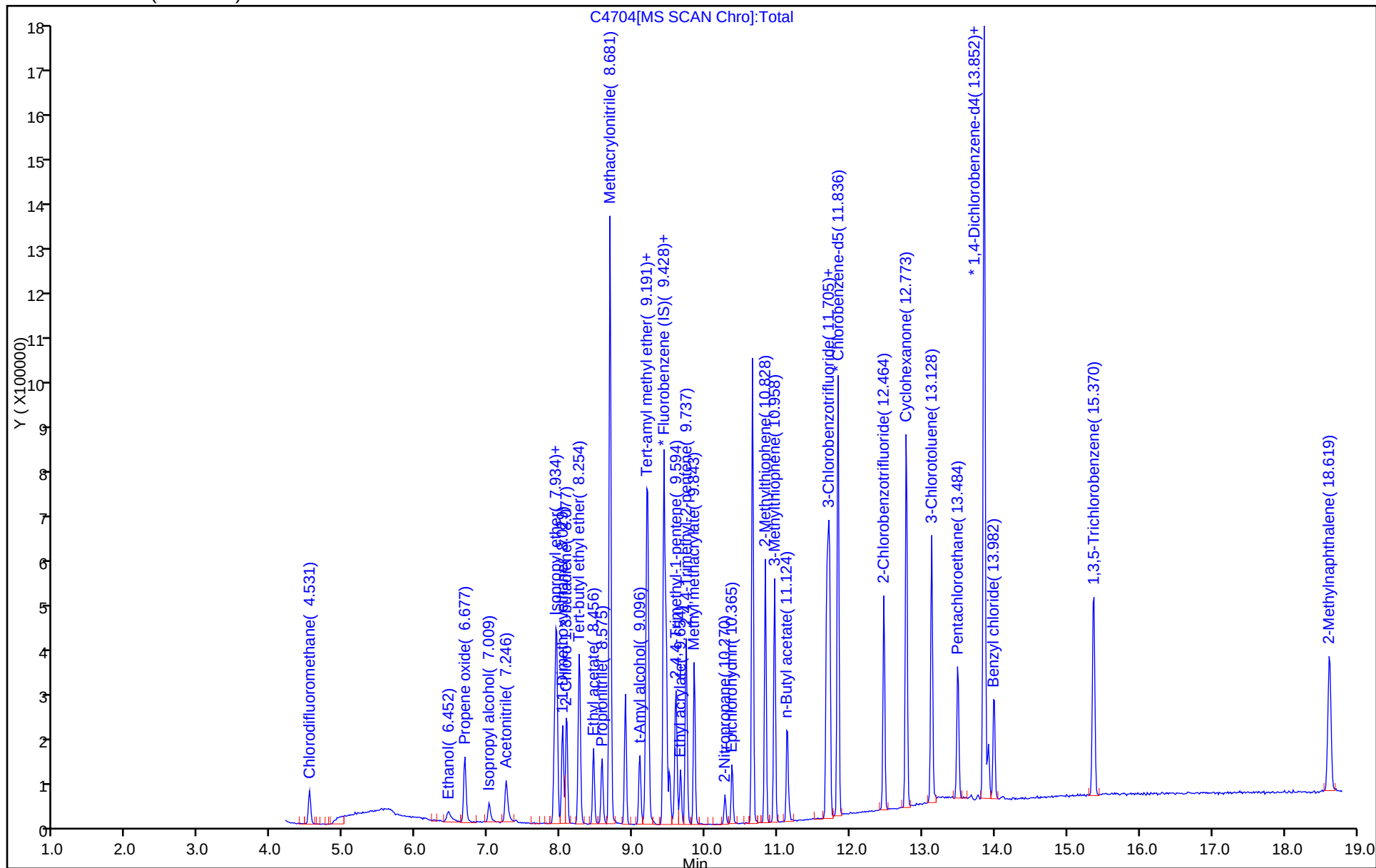
Dil. Factor: 1.0000

ALS Bottle#: 31

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4705.D
 Lims ID: IC 12
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 19-Jun-2017 22:01:30 ALS Bottle#: 32 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 12
 Misc. Info.: 480-0063379-024
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub91
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 20-Jun-2017 12:21:22 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: reiler

Date: 19-Jun-2017 22:27:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	100	160774	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	84	305379	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.851	0.000	65	328953	25.0	25.0	
11 Chlorodifluoromethane	51	4.543	4.543	0.000	97	326618	25.0	24.0	
148 Ethanol	45	6.452	6.452	0.000	100	140137	1000.0	985.8	
19 Propene oxide	58	6.677	6.677	0.000	97	319984	NC	NC	
24 Isopropyl alcohol	45	7.009	7.009	0.000	98	180256	250.0	247.2	
29 Acetonitrile	40	7.246	7.246	0.000	99	189332	250.0	227.6	
135 Halothane	117	7.922	7.922	0.000	94	217843	25.0	24.2	
36 Isopropyl ether	45	7.946	7.946	0.000	95	954280	25.0	24.8	
38 1,1-Dimethoxyethane	75	8.029	8.029	0.000	97	241078	125.0	126.7	
40 2-Chloro-1,3-butadiene	53	8.088	8.088	0.000	91	420296	25.0	25.8	
41 Tert-butyl ethyl ether	59	8.254	8.254	0.000	98	898457	25.0	24.8	
42 Ethyl acetate	43	8.456	8.456	0.000	99	507078	50.0	48.4	
46 Propionitrile	54	8.574	8.574	0.000	99	403236	250.0	245.2	
47 Methacrylonitrile	41	8.681	8.681	0.000	93	1713887	250.0	246.4	
147 t-Amyl alcohol	59	9.096	9.096	0.000	97	230589	250.0	256.3	
152 Isooctane	57	9.191	9.191	0.000	96	868197	25.0	24.6	
56 Tert-amyl methyl ether	73	9.203	9.203	0.000	98	829626	25.0	23.9	
1 1,4-Difluorobenzene	114	9.464	9.464	0.000	95	931745	25.0	24.2	
60 n-Butanol	56	9.499	9.499	0.000	90	171687	625.0	558.7	
141 2,4,4-Trimethyl-1-pentene	55	9.594	9.594	0.000	98	185428	NC	NC	
142 Ethyl acrylate	55	9.654	9.654	0.000	99	331999	25.0	25.6	
140 2,4,4-Trimethyl-2-pentene	97	9.737	9.737	0.000	83	565329	NC	NC	
63 Methyl methacrylate	41	9.843	9.843	0.000	93	484506	50.0	49.7	
70 2-Nitropropane	43	10.270	10.270	0.000	98	125155	50.0	50.1	
71 Epichlorohydrin	57	10.365	10.365	0.000	99	287268	250.0	258.4	
76 2-Methylthiophene	97	10.828	10.828	0.000	97	1080725	25.0	25.2	
78 3-Methylthiophene	97	10.958	10.958	0.000	99	1038931	25.0	25.4	
155 n-Butyl acetate	43	11.124	11.124	0.000	99	427536	25.0	27.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	11.681	11.681	0.000	92	464016	25.0	26.4	
146 1-Chlorohexane	55	11.693	11.693	0.000	98	291736	25.0	26.5	
86 4-Chlorobenzotrifluoride	180	11.717	11.717	0.000	97	515834	25.0	26.6	
93 2-Chlorobenzotrifluoride	180	12.464	12.464	0.000	98	472987	25.0	25.6	
96 Cyclohexanone	55	12.772	12.772	0.000	56	99031	250.0	247.8	
104 3-Chlorotoluene	126	13.128	13.128	0.000	96	395006	25.0	26.3	
108 Pentachloroethane	167	13.496	13.496	0.000	92	175045	25.0	27.2	
112 1,2,3-Trimethylbenzene	105	13.851	13.851	0.000	97	1349139	25.0	26.4	
114 Dicyclopentadiene	66	13.911	13.911	0.000	96	346345	25.0	26.1	
150 Benzyl chloride	126	13.994	13.994	0.000	98	127866	25.0	26.5	
118 1,3,5-Trichlorobenzene	180	15.369	15.369	0.000	98	563994	25.0	25.6	
149 2-Methylnaphthalene	142	18.619	18.619	0.000	93	811187	25.0	27.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL
ADD CORP mix_00058	Amount Added: 12.50	Units: uL
3_MCP_Add_WRK_00133	Amount Added: 12.50	Units: uL
3MTP_WRK_00063	Amount Added: 12.50	Units: uL
2MTP_WRK_00062	Amount Added: 12.50	Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4705.D

Injection Date: 19-Jun-2017 22:01:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 12

Worklist Smp#: 24

Client ID:

Purge Vol: 5.000 mL

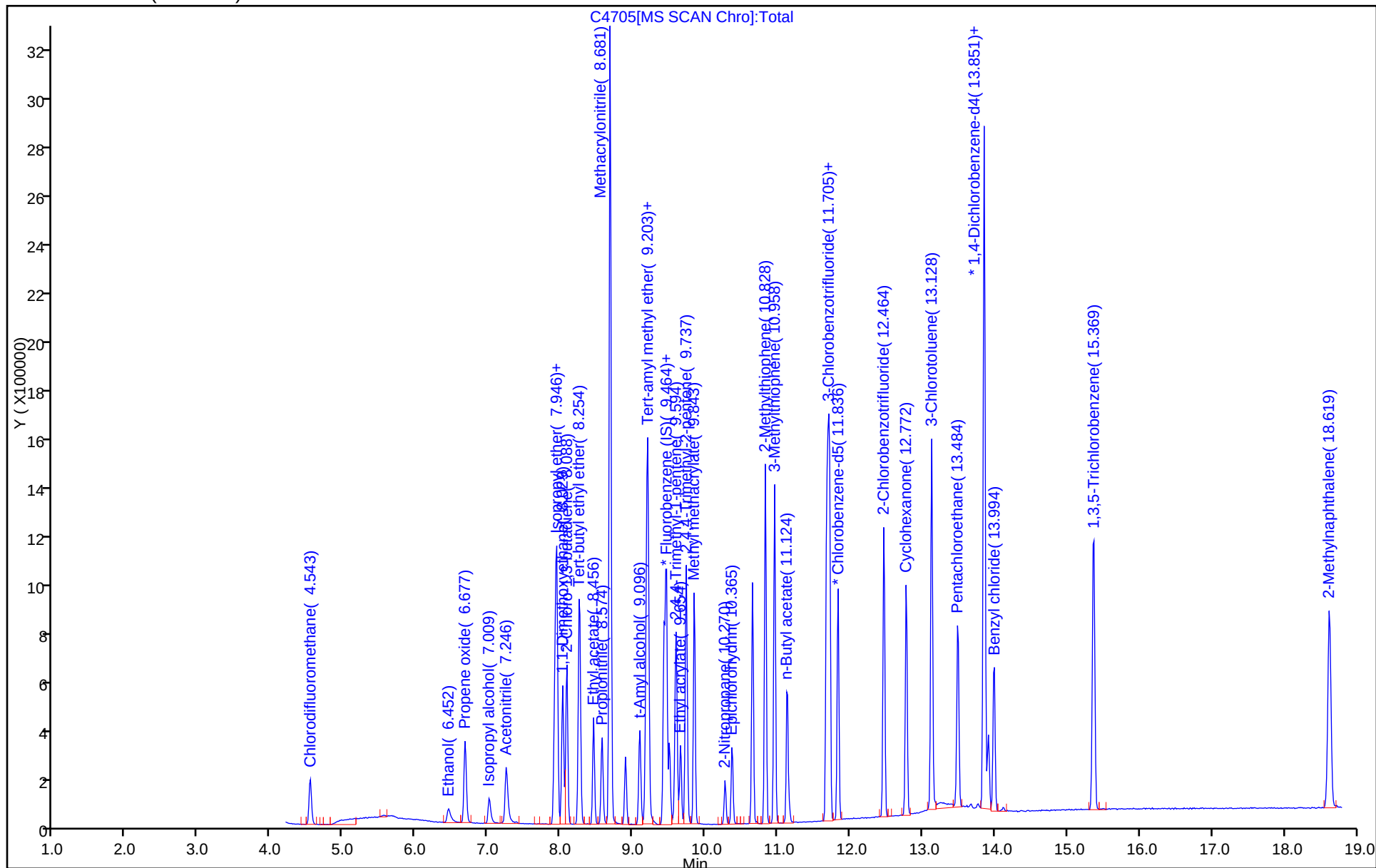
Dil. Factor: 1.0000

ALS Bottle#: 32

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4706.D
 Lims ID: IC 13
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 19-Jun-2017 22:27:30 ALS Bottle#: 33 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 13
 Misc. Info.: 480-0063379-025
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub91
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 20-Jun-2017 12:21:24 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: reiler

Date: 19-Jun-2017 23:14:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	160361	25.0	25.0	M
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	84	302740	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.851	0.001	66	323380	25.0	25.0	
11 Chlorodifluoromethane	51	4.531	4.543	-0.012	97	642106	50.0	47.2	
148 Ethanol	45	6.440	6.452	-0.012	99	276984	2000.0	1953.4	
19 Propene oxide	58	6.677	6.677	0.000	96	641422	NC	NC	
24 Isopropyl alcohol	45	7.009	7.009	0.000	98	360045	500.0	495.0	
29 Acetonitrile	40	7.246	7.246	0.000	99	375968	500.0	453.1	
135 Halothane	117	7.911	7.922	-0.012	94	436768	50.0	48.6	
36 Isopropyl ether	45	7.946	7.946	0.000	96	1886395	50.0	49.1	
38 1,1-Dimethoxyethane	75	8.029	8.029	0.000	97	496160	250.0	261.4	
40 2-Chloro-1,3-butadiene	53	8.077	8.088	-0.011	91	844504	50.0	51.9	
41 Tert-butyl ethyl ether	59	8.254	8.254	0.000	98	1792813	50.0	49.6	
42 Ethyl acetate	43	8.456	8.456	0.000	99	1017787	100.0	97.4	
46 Propionitrile	54	8.575	8.574	0.001	100	801579	500.0	488.7	
47 Methacrylonitrile	41	8.681	8.681	0.000	93	3266128	500.0	470.8	
147 t-Amyl alcohol	59	9.096	9.096	0.000	95	478668	500.0	533.5	
152 Isooctane	57	9.179	9.191	-0.012	97	1700407	50.0	48.3	
56 Tert-amyl methyl ether	73	9.203	9.203	0.000	96	1649587	50.0	47.7	
1 1,4-Difluorobenzene	114	9.464	9.464	0.000	94	1825541	50.0	47.6	
60 n-Butanol	56	9.500	9.499	0.001	90	429155	1250.0	1400.2	
141 2,4,4-Trimethyl-1-pentene	55	9.594	9.594	0.000	98	355023	NC	NC	
142 Ethyl acrylate	55	9.654	9.654	0.000	99	727446	50.0	56.3	
140 2,4,4-Trimethyl-2-pentene	97	9.737	9.737	0.000	82	1130744	NC	NC	
63 Methyl methacrylate	41	9.843	9.843	0.000	93	966291	100.0	99.4	
70 2-Nitropropane	43	10.270	10.270	0.000	98	274252	100.0	110.1	
71 Epichlorohydrin	57	10.365	10.365	0.000	99	584217	500.0	526.8	
76 2-Methylthiophene	97	10.828	10.828	0.000	97	2071573	50.0	49.1	
78 3-Methylthiophene	97	10.958	10.958	0.000	98	2067100	50.0	51.4	
155 n-Butyl acetate	43	11.124	11.124	0.000	99	891243	50.0	57.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	11.682	11.681	0.001	92	907502	50.0	52.6	
146 1-Chlorohexane	55	11.693	11.693	0.000	98	568585	50.0	52.0	
86 4-Chlorobenzotrifluoride	180	11.717	11.717	0.000	97	996545	50.0	52.2	
93 2-Chlorobenzotrifluoride	180	12.464	12.464	0.000	98	941527	50.0	51.8	
96 Cyclohexanone	55	12.772	12.772	0.000	77	203403	500.0	517.7	
104 3-Chlorotoluene	126	13.128	13.128	0.000	96	785363	50.0	53.3	
108 Pentachloroethane	167	13.484	13.496	-0.012	92	358582	50.0	56.8	
112 1,2,3-Trimethylbenzene	105	13.852	13.851	0.001	97	2674056	50.0	53.3	
114 Dicyclopentadiene	66	13.911	13.911	0.000	96	693218	50.0	53.1	
150 Benzyl chloride	126	13.994	13.994	0.000	98	266155	50.0	55.7	
118 1,3,5-Trichlorobenzene	180	15.370	15.369	0.001	98	1128296	50.0	52.0	
149 2-Methylnaphthalene	142	18.619	18.619	0.000	93	1755492	50.0	61.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

C_8260_IS_00089

Amount Added: 1.00

Units: uL

ADD CORP mix_00058

Amount Added: 25.00

Units: uL

3_MCP_Add_WRK_00133

Amount Added: 25.00

Units: uL

3MTP_WRK_00063

Amount Added: 25.00

Units: uL

2MTP_WRK_00062

Amount Added: 25.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4706.D

Injection Date: 19-Jun-2017 22:27:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 13

Worklist Smp#: 25

Client ID:

Purge Vol: 5.000 mL

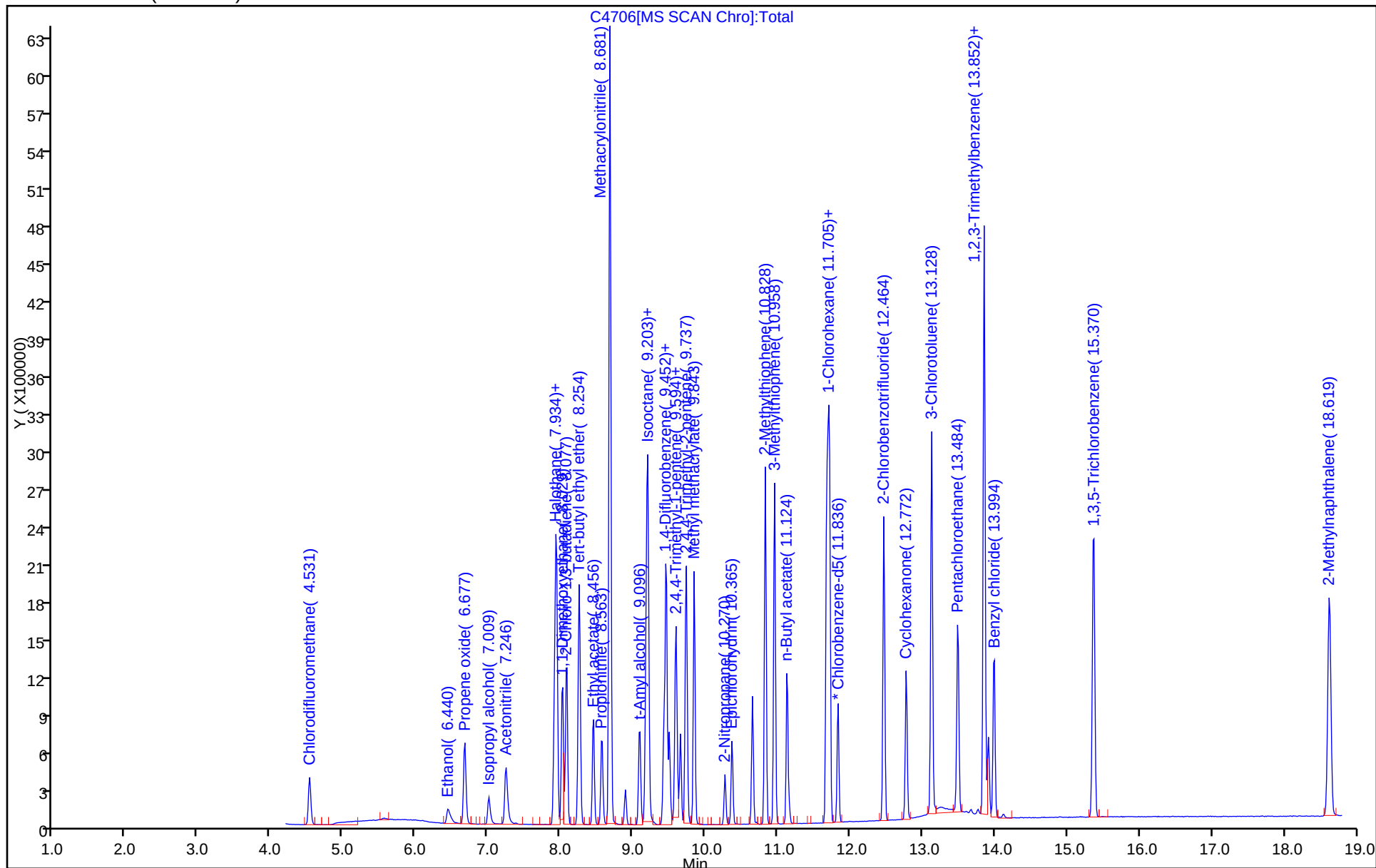
Dil. Factor: 1.0000

ALS Bottle#: 33

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4706.D

Injection Date: 19-Jun-2017 22:27:30

Instrument ID: HP5973C

Lims ID: IC 13

Client ID:

Operator ID: LH

ALS Bottle#:

33

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

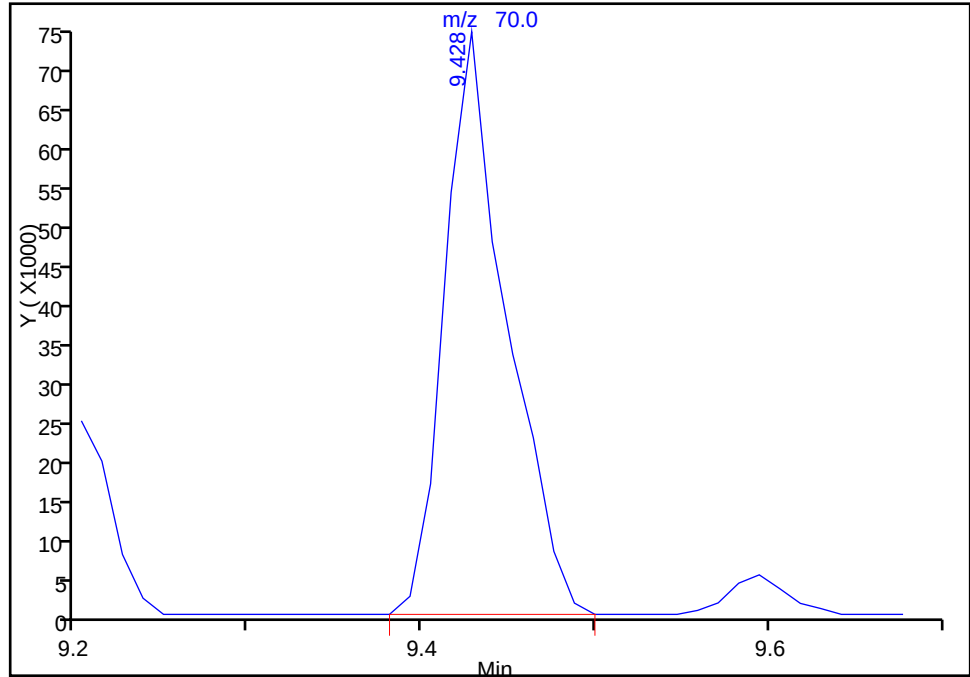
Detector: MS SCAN

*** 153 Fluorobenzene (IS), CAS: 462-06-6**

Signal: 1

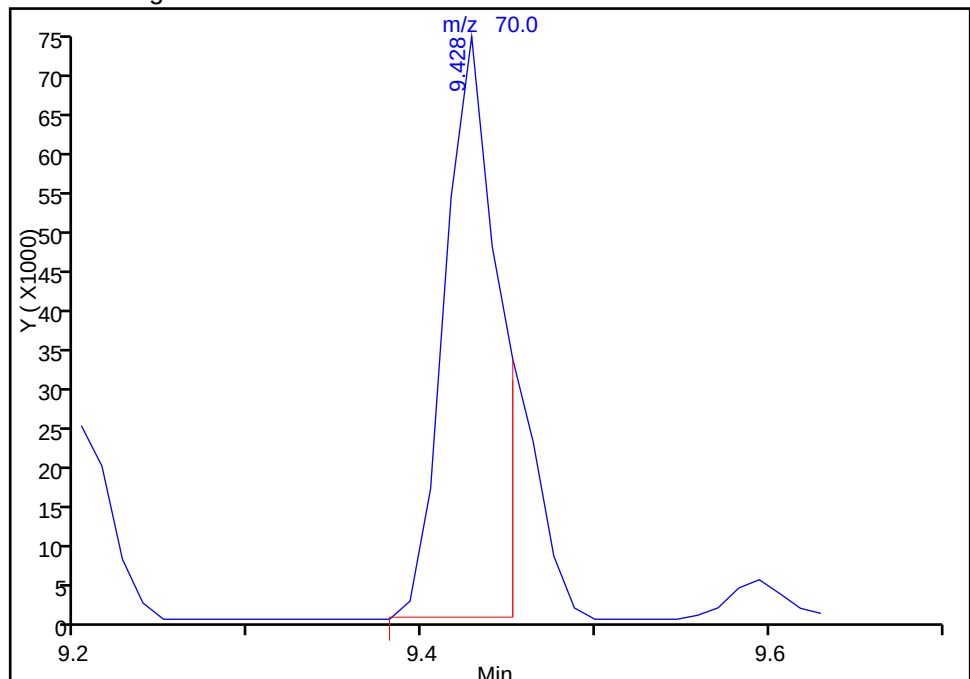
RT: 9.43
Area: 184394
Amount: 25.000000
Amount Units: ug/L

Processing Integration Results



RT: 9.43
Area: 160361
Amount: 25.000000
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 20-Jun-2017 11:36:36

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Lims ID: IC 14
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 19-Jun-2017 22:52:30 ALS Bottle#: 34 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 14
 Misc. Info.: 480-0063379-026
 Operator ID: LH Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub91
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 20-Jun-2017 12:21:26 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: reiler

Date: 19-Jun-2017 23:15:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	147712	25.0	25.0	M
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	84	301428	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.851	0.001	49	318647	25.0	25.0	
11 Chlorodifluoromethane	51	4.531	4.543	-0.012	97	1362546	100.0	108.8	
148 Ethanol	45	6.440	6.452	-0.012	99	532822	4000.0	4079.5	
19 Propene oxide	58	6.677	6.677	0.000	96	1265338	NC	NC	
24 Isopropyl alcohol	45	7.009	7.009	0.000	98	698918	1000.0	1043.2	
29 Acetonitrile	40	7.246	7.246	0.000	99	732717	1000.0	958.6	
135 Halothane	117	7.910	7.922	-0.012	94	889172	100.0	107.4	
36 Isopropyl ether	45	7.946	7.946	0.000	99	3799412	100.0	107.4	
38 1,1-Dimethoxyethane	75	8.029	8.029	0.000	97	1013251	500.0	579.5	
40 2-Chloro-1,3-butadiene	53	8.076	8.088	-0.012	91	1760587	100.0	117.5	
41 Tert-butyl ethyl ether	59	8.254	8.254	0.000	98	3626763	100.0	109.0	
42 Ethyl acetate	43	8.444	8.456	-0.012	99	2024758	200.0	210.3	
46 Propionitrile	54	8.563	8.574	-0.011	100	1555619	1000.0	1029.7	
47 Methacrylonitrile	41	8.681	8.681	0.000	93	6067099	1000.0	949.4	
147 t-Amyl alcohol	59	9.084	9.096	-0.012	95	943246	1000.0	1141.4	
152 Isooctane	57	9.179	9.191	-0.012	98	3345061	100.0	103.2	
56 Tert-amyl methyl ether	73	9.203	9.203	0.000	99	3297782	100.0	103.5	
1 1,4-Difluorobenzene	114	9.464	9.464	0.000	93	3679033	100.0	104.1	
60 n-Butanol	56	9.499	9.499	0.000	89	842100	2500.0	2982.7	
141 2,4,4-Trimethyl-1-pentene	55	9.594	9.594	0.000	98	793401	NC	NC	
142 Ethyl acrylate	55	9.654	9.654	0.000	99	1383960	100.0	116.3	
140 2,4,4-Trimethyl-2-pentene	97	9.737	9.737	0.000	82	2288443	NC	NC	
63 Methyl methacrylate	41	9.843	9.843	0.000	93	1899867	200.0	212.2	
70 2-Nitropropane	43	10.270	10.270	0.000	98	592470	200.0	258.3	
71 Epichlorohydrin	57	10.365	10.365	0.000	99	1163757	1000.0	1139.2	
76 2-Methylthiophene	97	10.828	10.828	0.000	97	4232450	100.0	101.8	
78 3-Methylthiophene	97	10.958	10.958	0.000	98	4007498	100.0	101.0	
155 n-Butyl acetate	43	11.124	11.124	0.000	99	1787125	100.0	117.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
85 3-Chlorobenzotrifluoride	180	11.681	11.681	0.000	92	1865656	100.0	109.6	
146 1-Chlorohexane	55	11.693	11.693	0.000	98	1152392	100.0	105.9	
86 4-Chlorobenzotrifluoride	180	11.717	11.717	0.000	97	2015856	100.0	107.3	
93 2-Chlorobenzotrifluoride	180	12.464	12.464	0.000	98	1957780	100.0	109.4	
96 Cyclohexanone	55	12.772	12.772	0.000	91	396334	1000.0	1023.7	
104 3-Chlorotoluene	126	13.128	13.128	0.000	96	1607726	100.0	110.7	
108 Pentachloroethane	167	13.496	13.496	0.000	93	769102	100.0	123.5	
112 1,2,3-Trimethylbenzene	105	13.852	13.851	0.001	98	5417376	100.0	109.5	
114 Dicyclopentadiene	66	13.911	13.911	0.000	95	1450704	100.0	112.7	
150 Benzyl chloride	126	13.994	13.994	0.000	98	560329	100.0	117.8	
118 1,3,5-Trichlorobenzene	180	15.369	15.369	0.000	98	2339956	100.0	109.5	
149 2-Methylnaphthalene	142	18.619	18.619	0.000	93	3744319	100.0	132.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

C_8260_IS_00089

Amount Added: 1.00

Units: uL

ADD CORP mix_00058

Amount Added: 50.00

Units: uL

3_MCP_Add_WRK_00133

Amount Added: 50.00

Units: uL

3MTP_WRK_00063

Amount Added: 50.00

Units: uL

2MTP_WRK_00062

Amount Added: 50.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D

Injection Date: 19-Jun-2017 22:52:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: IC 14

Worklist Smp#: 26

Client ID:

Purge Vol: 5.000 mL

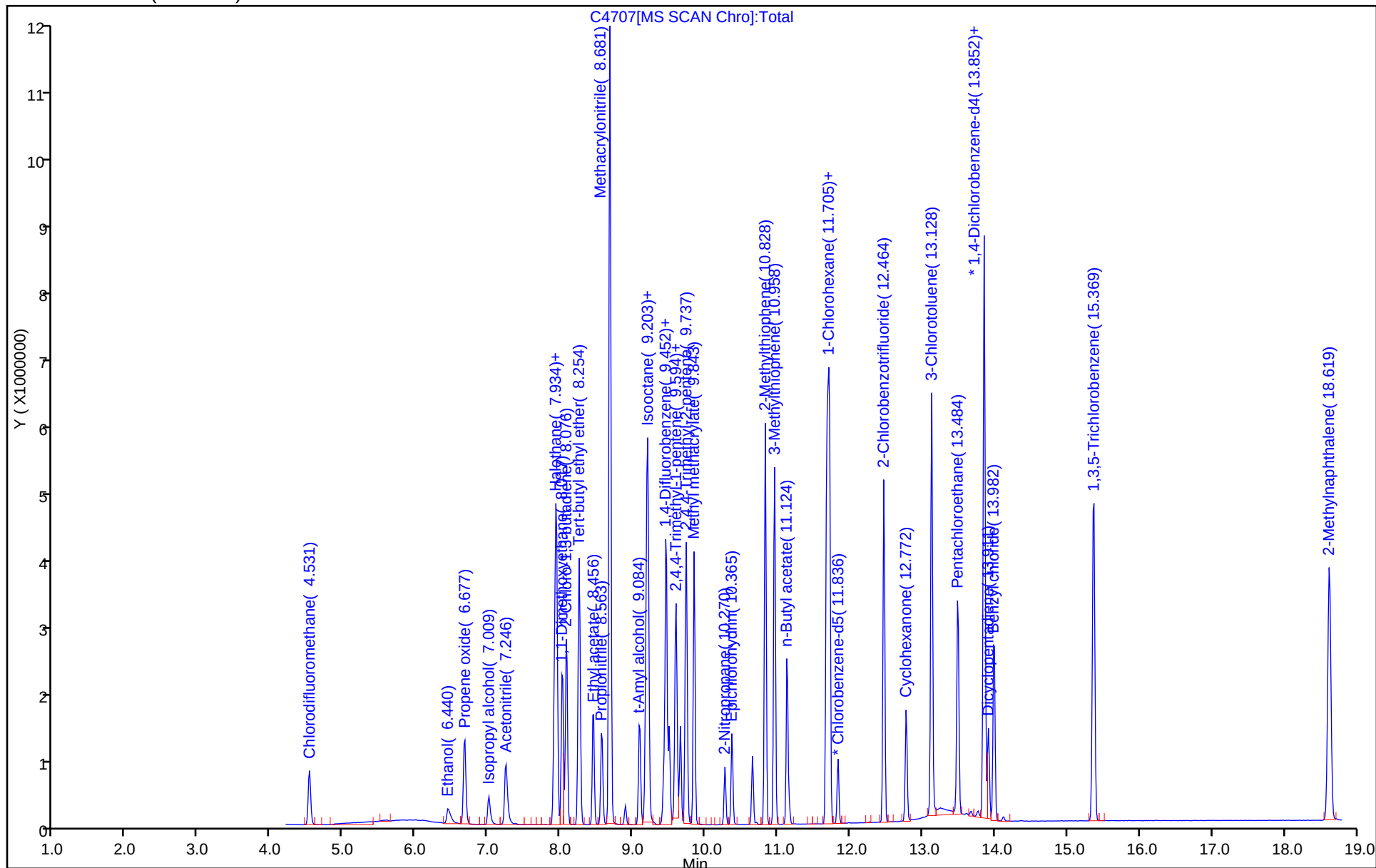
Dil. Factor: 1.0000

ALS Bottle#: 34

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D

Injection Date: 19-Jun-2017 22:52:30

Instrument ID: HP5973C

Lims ID: IC 14

Client ID:

Operator ID: LH

ALS Bottle#:

34

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

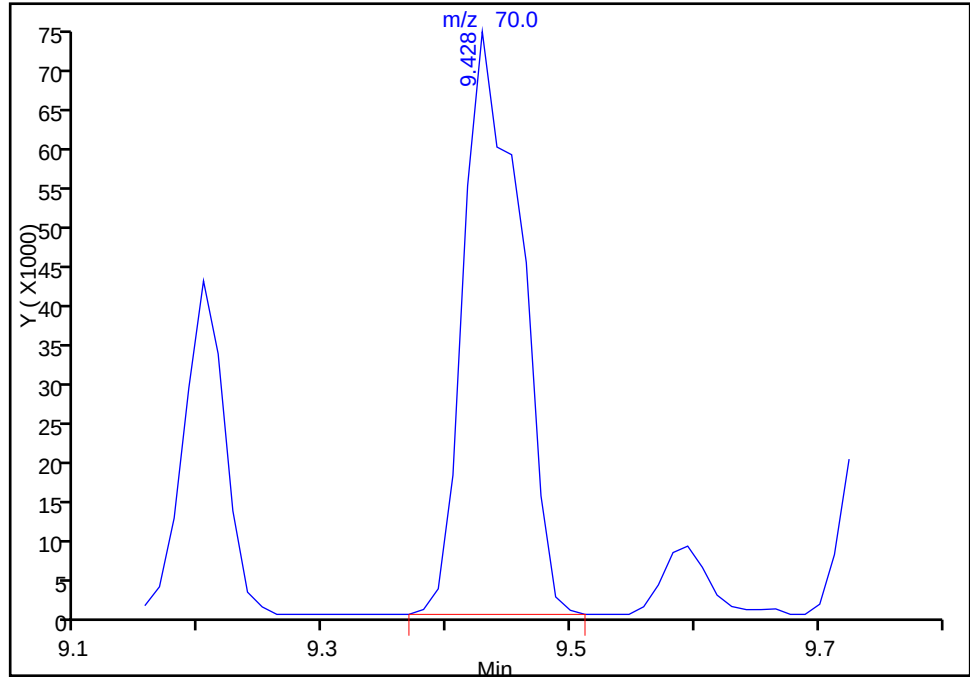
Detector: MS SCAN

*** 153 Fluorobenzene (IS), CAS: 462-06-6**

Signal: 1

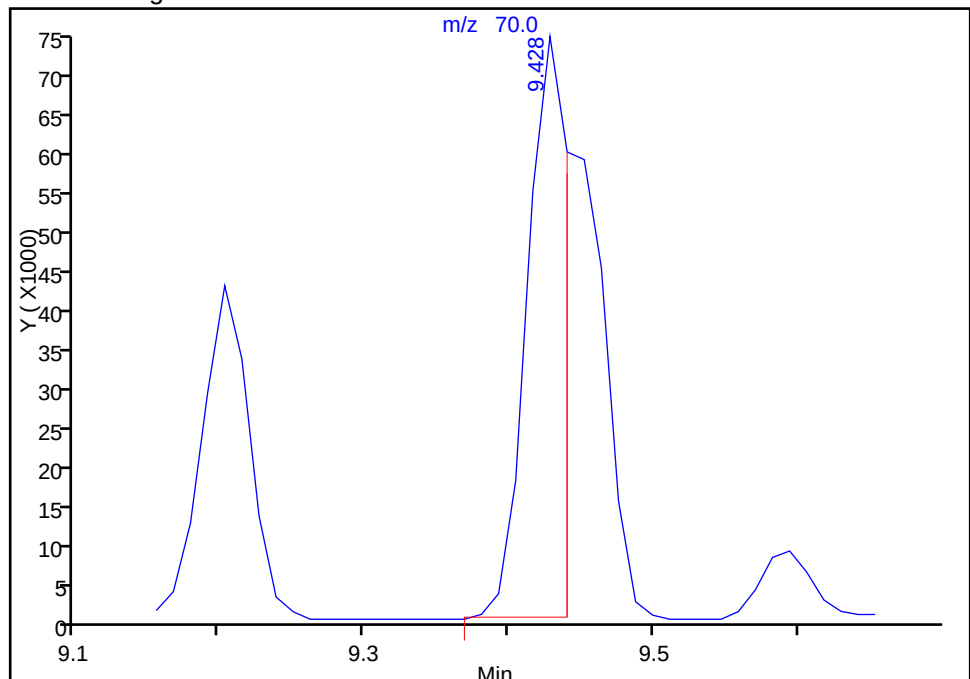
RT: 9.43
Area: 235053
Amount: 25.000000
Amount Units: ug/L

Processing Integration Results



RT: 9.43
Area: 147712
Amount: 25.000000
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 20-Jun-2017 11:39:10

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 363987

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2017 15:18 Calibration End Date: 06/26/2017 18:28 Calibration ID: 30775

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-363987/6	N9067.D
Level 2	IC 480-363987/7	N9068.D
Level 3	IC 480-363987/8	N9069.D
Level 4	IC 480-363987/9	N9070.D
Level 5	IC 480-363987/10	N9071.D
Level 6	ICIS 480-363987/11	N9072.D
Level 7	IC 480-363987/12	N9073.D
Level 8	IC 480-363987/13	N9074.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 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.2008 1.0953	1.0770 1.2373	1.2584 1.3589	1.3988	1.3325	Ave		1.2449			0.1000	9.5		20.0			
Chloromethane	++++ 2.7537	2.7330 2.9064	2.8159 2.8955	3.0455	2.8140	Ave		2.8520			0.1000	3.8		20.0			
Vinyl chloride	++++ 1.7891	1.8943 1.9242	1.9995 2.0319	2.1416	1.9763	Ave		1.9653			0.1000	5.7		20.0			
Butadiene	1.9906 2.2030	2.1337 2.4589	2.4871 2.5477	2.7282	2.4818	Ave		2.3789				10.3		20.0			
Bromomethane	0.5415 0.5702	0.4378 0.6719	0.5784 0.5909	0.5304	0.5223	Ave		0.5554			0.1000	12.0		20.0			
Chloroethane	++++ 0.7247	0.7866 0.8584	0.8440 0.7614	0.7862	0.7580	Ave		0.7885			0.1000	6.1		20.0			
Dichlorofluoromethane	++++ 1.8625	1.7028 1.9692	1.9417 1.9515	1.9266	1.8757	Ave		1.8900				4.8		20.0			
Trichlorofluoromethane	++++ 1.4912	1.4968 1.7523	1.6930 1.7535	1.7612	1.6591	Ave		1.6582			0.1000	7.1		20.0			
Ethyl ether	2.0761 1.8582	1.7584 1.9503	2.2383 1.9216	1.9619	1.8972	Ave		1.9578				7.4		20.0			
Acrolein	++++ 0.3951	0.3406 0.4215	0.4712 0.4001	0.4241	0.4092	Ave		0.4088				9.6		20.0			
1,1-Dichloroethene	0.8288 1.0018	0.9322 1.0706	1.2833 1.1275	1.1110	1.0592	Ave		1.0518			0.1000	12.9		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 1.0167	0.8129 0.9857	0.9892 1.0550	1.1461	1.1058	Ave		1.0159			0.1000	10.6		20.0			
Acetone	++++ 0.7881	0.8484 0.7664	0.9749 0.7149	0.8082	0.7561	Ave		0.8081			0.1000	10.5		20.0			
Iodomethane	1.5892 1.7702	1.4389 1.8869	1.9786 1.8241	1.7251	1.7423	Ave		1.7444				9.7		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.: 480-120094-1 Analy Batch No.: 363987
SDG No.: _____
Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/26/2017 15:18 Calibration End Date: 06/26/2017 18:28 Calibration ID: 30775

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 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	3.3785 3.5863	3.2482 3.6641	3.9239 3.8692	3.7043	3.6163	Ave		3.6239			0.1000	6.3		20.0			
Allyl chloride	++++ 3.9347	4.0560 3.9957	4.3445 4.0896	4.1381	3.9375	Ave		4.0709				3.5		20.0			
Methyl acetate	2.0047 2.1478	1.9397 2.3026	2.1876 2.2501	2.1631	2.1685	Ave		2.1455			0.1000	5.6		20.0			
Methylene Chloride	++++ 1.2345	1.4944 1.2639	1.6158 1.2160	1.3852	1.2437	Ave		1.3505			0.1000	11.4		20.0			
2-Methyl-2-propanol	0.1446 0.1595	0.1403 0.1739	0.1793 0.1658	0.1716	0.1765	Ave		0.1639				9.0		20.0			
Methyl tert-butyl ether	3.4701 3.9000	3.5856 4.2128	4.2809 4.0883	4.0596	3.9090	Ave		3.9383			0.1000	7.3		20.0			
trans-1,2-Dichloroethene	1.0810 1.2274	1.1567 1.2230	1.2737 1.2380	1.2389	1.2639	Ave		1.2128			0.1000	5.3		20.0			
Acrylonitrile	1.0229 1.0919	1.0268 1.1543	1.1448 1.1104	1.1122	1.1008	Ave		1.0955				4.4		20.0			
Hexane	3.0584 2.8507	2.7450 2.9248	3.2684 3.2898	3.3631	3.2805	Ave		3.0976				7.6		20.0			
1,1-Dichloroethane	2.8015 2.8983	2.6649 2.9987	3.3180 3.0292	3.0518	2.9355	Ave		2.9622			0.2000	6.5		20.0			
Vinyl acetate	4.3598 4.7403	4.2803 5.3456	4.7497 5.6728	4.7716	4.8242	Ave		4.8430				9.6		20.0			
2,2-Dichloropropane	1.3698 1.2081	1.3843 1.2142	1.6101 1.1842	1.3219	1.2660	Ave		1.3198				10.6		20.0			
cis-1,2-Dichloroethene	1.1464 1.3394	1.3016 1.4226	1.4460 1.3987	1.3602	1.3326	Ave		1.3434			0.1000	6.9		20.0			
2-Butanone (MEK)	1.1308 1.2175	1.1421 1.3621	1.3260 1.3249	1.2645	1.3023	Ave		1.2588			0.1000	6.9		20.0			
Chlorobromomethane	0.5995 0.6769	0.5337 0.6994	0.7053 0.6956	0.6376	0.7111	Ave		0.6574				9.6		20.0			
Tetrahydrofuran	0.8620 0.8342	0.7778 0.9066	1.0449 0.8794	0.9012	0.9472	Ave		0.8942				8.9		20.0			
Chloroform	2.3835 2.1473	2.0848 2.1800	2.3552 2.1688	2.1626	2.1355	Ave		2.2022			0.2000	4.9		20.0			
1,1,1-Trichloroethane	++++ 1.6615	1.6565 1.6914	1.6957 1.7344	1.7406	1.7000	Ave		1.6972			0.1000	1.9		20.0			
Cyclohexane	2.5302 3.4025	2.8183 3.3973	4.2347 3.7689	3.5879	3.6147	Ave		3.4193			0.1000	15.7		20.0			
Carbon tetrachloride	1.2557 1.5032	1.3431 1.5521	1.6930 1.6604	1.5507	1.6188	Ave		1.5221			0.1000	10.0		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.: 480-120094-1 Analy Batch No.: 363987
SDG No.: _____
Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/26/2017 15:18 Calibration End Date: 06/26/2017 18:28 Calibration ID: 30775

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 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	1.3855 1.5790	1.6157 1.6300	1.8089 1.7021	1.7399	1.6904	Ave		1.6439				7.8		20.0			
Isobutyl alcohol	0.1065 0.0992	0.0888 0.1155	0.1099 0.1166	0.1037	0.1064	Ave		0.1058				8.5		20.0			
Benzene	4.4968 4.9841	4.8105 5.0853	5.2610 5.1954	5.1286	5.1021	Ave		5.0080			0.5000	4.9		20.0			
1,2-Dichloroethane	2.5010 2.3986	2.2421 2.4941	2.7686 2.4321	2.5631	2.5246	Ave		2.4905			0.1000	6.0		20.0			
n-Heptane	3.5953 3.2166	3.5252 3.2908	4.0700 3.6159	3.5596	3.7884	Ave		3.5827				7.5		20.0			
Trichloroethene	1.0869 1.2768	1.0844 1.2646	1.2728 1.3270	1.4029	1.2042	Ave		1.2399			0.2000	8.9		20.0			
Methylcyclohexane	1.5140 1.9470	1.6755 2.0038	2.2963 2.1813	2.1179	2.1742	Ave		1.9888			0.1000	13.5		20.0			
1,2-Dichloropropane	1.4861 1.6363	1.5012 1.7251	1.8353 1.7397	1.6811	1.6980	Ave		1.6629			0.1000	7.2		20.0			
Dibromomethane	0.7225 0.7948	0.7424 0.8433	0.8589 0.8367	0.8303	0.8342	Ave		0.8079			0.1000	6.2		20.0			
1,4-Dioxane	++++ 0.0033	++++ 0.0038	0.0029 0.0036	0.0033	0.0031	Ave		0.0033				9.7		20.0			
Bromodichloromethane	1.5199 1.4819	1.2939 1.6274	1.5308 1.6708	1.5412	1.5005	Ave		1.5208			0.2000	7.4		20.0			
2-Chloroethyl vinyl ether	0.9387 1.0467	0.9073 1.1701	1.0533 1.2758	1.2596	1.1482	Ave		1.1000				12.5		20.0			
cis-1,3-Dichloropropene	1.4744 1.8864	1.5049 2.0536	1.9905 2.1759	1.9407	1.9433	Ave		1.8712			0.2000	13.4		20.0			
4-Methyl-2-pentanone (MIBK)	++++ 0.2423	0.2339 0.2637	0.2455 0.2650	0.2607	0.2611	Ave		0.2532			0.1000	4.9		20.0			
Toluene	0.8210 0.8312	0.8306 0.8860	0.9657 0.8785	0.9066	0.8919	Ave		0.8764			0.4000	5.5		20.0			
trans-1,3-Dichloropropene	++++ 0.4636	0.4517 0.5177	0.4442 0.5300	0.4542	0.4676	Ave		0.4756			0.1000	7.2		20.0			
Ethyl methacrylate	0.4075 0.3969	0.3581 0.4556	0.4167 0.4755	0.4191	0.4363	Ave		0.4207				8.6		20.0			
1,1,2-Trichloroethane	++++ 0.2431	0.2274 0.2527	0.2425 0.2526	0.2425	0.2481	Ave		0.2441			0.1000	3.5		20.0			
Tetrachloroethene	0.3566 0.3420	0.3317 0.3712	0.4406 0.3797	0.3797	0.3662	Ave		0.3710			0.2000	8.9		20.0			
1,3-Dichloropropane	0.5234 0.4914	0.4780 0.5357	0.4981 0.5444	0.5775	0.5488	Ave		0.5247				6.4		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.: 480-120094-1 Analy Batch No.: 363987
SDG No.: _____
Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/26/2017 15:18 Calibration End Date: 06/26/2017 18:28 Calibration ID: 30775

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 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.3950 0.4734	0.4424 0.5072	0.4936 0.5308	0.5187	0.5245	Ave		0.4857			0.1000	9.7		20.0			
Dibromochloromethane	0.3017 0.3120	0.2618 0.3475	0.2807 0.3544	0.3160	0.3160	Ave		0.3113			0.1000	9.9		20.0			
1,2-Dibromoethane	0.2969 0.2975	0.2706 0.3297	0.3018 0.3315	0.3126	0.3104	Ave		0.3064				6.4		20.0			
Chlorobenzene	0.9167 0.9103	0.9335 0.9573	1.0246 0.9574	0.9920	0.9452	Ave		0.9546			0.5000	4.0		20.0			
1,1,1,2-Tetrachloroethane	0.2871 0.3161	0.2457 0.3522	0.3645 0.3508	0.3341	0.3258	Ave		0.3220				12.2		20.0			
Ethylbenzene	1.4902 1.5626	1.3611 1.6268	1.7828 1.6529	1.6749	1.6252	Ave		1.5971			0.1000	8.0		20.0			
m,p-Xylene	0.5392 0.6168	0.5505 0.6275	0.6558 0.6389	0.6303	0.6486	Ave		0.6135			0.1000	7.2		20.0			
o-Xylene	0.5676 0.6139	0.5266 0.6398	0.6752 0.6143	0.6259	0.6364	Ave		0.6125			0.3000	7.5		20.0			
Styrene	0.9996 1.0211	0.8198 1.0952	1.0991 1.0895	1.0241	1.0436	Ave		1.0240			0.3000	8.9		20.0			
Bromoform	++++ 0.1938	0.2164 0.2186	0.1956 0.2233	0.1889	0.1879	Ave		0.2035			0.1000	7.5		20.0			
Isopropylbenzene	3.1020 3.2884	2.7914 3.4691	3.3689 3.6825	3.3496	3.3190	Ave		3.2964			0.1000	7.9		20.0			
Bromobenzene	++++ 0.8058	0.8077 0.8367	0.8224 0.8876	0.8443	0.8008	Ave		0.8293				3.7		20.0			
1,1,2,2-Tetrachloroethane	1.0294 0.7934	0.7295 0.8575	0.8474 0.9066	0.9154	0.8450	Ave		0.8655			0.3000	10.3		20.0			
1,2,3-Trichloropropane	0.2139 0.2435	0.2070 0.2756	0.3154 0.2986	0.2930	0.2919	Ave		0.2674				15.3		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.3750	0.2999 0.4379	0.3376 0.4949	0.3470	0.3495	Ave		0.3774				17.7		20.0			
N-Propylbenzene	3.3278 3.6479	3.4978 3.9636	3.8355 4.1634	3.8415	3.9065	Ave		3.7730				7.1		20.0			
2-Chlorotoluene	0.7959 0.7610	0.6841 0.7848	0.7380 0.8002	0.7608	0.7554	Ave		0.7600				4.9		20.0			
1,3,5-Trimethylbenzene	2.7641 2.6804	2.3015 2.8666	2.7054 2.8149	2.7963	2.8290	Ave		2.7198				6.6		20.0			
4-Chlorotoluene	2.1777 2.5319	2.3167 2.6753	2.7120 2.8136	2.7602	2.6815	Ave		2.5836				8.7		20.0			
tert-Butylbenzene	++++ 0.5989	0.5828 0.6129	0.5556 0.5889	0.6155	0.6061	Ave		0.5944				3.5		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.: 480-120094-1 Analy Batch No.: 363987
SDG No.: _____
Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 06/26/2017 15:18 Calibration End Date: 06/26/2017 18:28 Calibration ID: 30775

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 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.7178 2.7912	2.3310 2.9552	2.9256 2.9256	2.8112	2.8042	Ave		2.7827				7.2		20.0			
sec-Butylbenzene	2.8781 3.4824	2.8093 3.5712	3.5690 3.4839	3.6638	3.6082	Ave		3.3832				10.0		20.0			
1,3-Dichlorobenzene	1.5897 1.5269	1.3281 1.6190	1.6297 1.6133	1.5613	1.5938	Ave		1.5577			0.6000	6.3		20.0			
4-Isopropyltoluene	2.4934 2.9596	2.1670 3.1085	2.9617 3.0259	3.1552	3.0561	Ave		2.8659				12.2		20.0			
1,4-Dichlorobenzene	1.6452 1.5477	1.4905 1.6471	1.7225 1.6663	1.6926	1.6583	Ave		1.6338			0.5000	4.7		20.0			
n-Butylbenzene	2.0500 2.5465	2.1487 2.6338	2.7955 2.4918	2.7268	2.5923	Ave		2.4982				10.6		20.0			
1,2-Dichlorobenzene	1.3788 1.4830	1.3657 1.5607	1.4969 1.5422	1.6020	1.5442	Ave		1.4967			0.4000	5.7		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.1406	0.1371 0.1554	0.1343 0.1670	0.1474	0.1424	Ave		0.1463			0.0500	7.8		20.0			
1,2,4-Trichlorobenzene	0.7725 0.8970	0.7539 0.9504	0.9642 0.9392	0.8664	0.8659	Ave		0.8762			0.2000	9.0		20.0			
Hexachlorobutadiene	++++ 0.4111	0.4025 0.4013	0.4270 0.3709	0.4481	0.4497	Ave		0.4158				6.8		20.0			
Naphthalene	1.7275 2.3925	1.6989 2.5645	1.9127 2.6963	2.0887	2.1511	Ave		2.1541				17.3		20.0			
1,2,3-Trichlorobenzene	0.7496 0.7449	0.5745 0.7654	0.7641 0.8253	0.7888	0.7270	Ave		0.7425				10.0		20.0			
Dibromofluoromethane (Surr)	1.0669 1.1405	1.0933 1.1199	1.0818 1.1414	1.0359	1.0645	Ave		1.0930				3.5		20.0			
1,2-Dichloroethane-d4 (Surr)	1.6199 1.6486	1.6817 1.6383	1.6494 1.5900	1.6350	1.6411	Ave		1.6380				1.6		20.0			
Toluene-d8 (Surr)	1.1925 1.2006	1.2395 1.1968	1.2404 1.1772	1.1861	1.2078	Ave		1.2051				1.9		20.0			
4-Bromofluorobenzene (Surr)	0.3937 0.3897	0.4086 0.4037	0.4195 0.3949	0.4057	0.3959	Ave		0.4015				2.4		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
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 363987

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2017 15:18 Calibration End Date: 06/26/2017 18:28 Calibration ID: 30775

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-363987/6	N9067.D
Level 2	IC 480-363987/7	N9068.D
Level 3	IC 480-363987/8	N9069.D
Level 4	IC 480-363987/9	N9070.D
Level 5	IC 480-363987/10	N9071.D
Level 6	ICIS 480-363987/11	N9072.D
Level 7	IC 480-363987/12	N9073.D
Level 8	IC 480-363987/13	N9074.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4903 217222	8800 500454	20331 1113829	58737	111607	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	++++ 546140	22330 1175598	45494 2373376	127882	235700	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	++++ 354833	15478 778315	32304 1665472	89924	165530	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	8128 436909	17434 994574	40182 2088301	114558	207872	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	2211 113097	3577 271789	9345 484305	22271	43745	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 143737	6427 347222	13636 624126	33011	63490	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	++++ 369378	13913 796487	31370 1599550	80896	157109	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	++++ 295746	12230 708769	27353 1437263	73953	138969	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	8477 368535	14367 788872	36162 1575109	82382	158907	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	++++ 391823	13914 852450	38066 1639588	89044	171384	++++ 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	3384 198689	7617 433055	20733 924220	46652	88721	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 201648	6642 398690	15982 864723	48124	92625	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 781506	34659 1550009	78756 2930067	169683	316634	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	6489 351081	11757 763203	31967 1495161	72437	145934	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	13795 711270	26540 1482075	63395 3171476	155545	302896	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 363987

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2017 15:18 Calibration End Date: 06/26/2017 18:28 Calibration ID: 30775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	+++++ 780372	33140 1616175	70191 3352167	173759	329804	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	40928 2129881	79243 4656841	176717 9221744	454139	908143	2.50 125	5.00 250	10.0 500	25.0	50.0
Methylene Chloride	FB	Ave	+++++ 244833	12210 511241	26106 996706	58163	104169	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	5903 316349	11465 703489	28976 1359203	72062	147818	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	14169 773486	29297 1704011	69164 3351045	170464	327414	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	4414 243432	9451 494689	20578 1014770	52020	105863	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	41765 2165500	83894 4668947	184962 9101930	466998	921987	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	12488 565368	22428 1183031	52806 2696552	141218	274771	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	11439 574810	21774 1212930	53607 2482929	128144	245871	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	35603 1880285	69946 4324414	153474 9299644	400719	808141	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	5593 239601	11311 491109	26013 970689	55505	106042	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	4681 265637	10635 575400	23362 1146494	57114	111621	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	23086 1207309	46660 2754625	107116 5429803	265491	545385	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	2448 134254	4361 282896	11395 570181	26773	59565	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	7039 330886	12711 733398	33765 1441690	75681	158676	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	9732 425868	17034 881765	38052 1777695	90808	178869	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	+++++ 329527	13535 684126	27397 1421611	73088	142392	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	10331 674819	23027 1374138	68417 3089221	150658	302762	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	5127 298133	10974 627784	27352 1361023	65113	135592	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	5657 313157	13201 659288	29225 1395178	73059	141588	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	10868 491957	18137 1168434	44406 2389924	108877	222862	12.5 625	25.0 1250	50.0 2500	125	250

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 363987

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2017 15:18 Calibration End Date: 06/26/2017 18:28 Calibration ID: 30775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	18361 988484	39305 2056914	84998 4258489	215351	427346	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	10212 475717	18319 1008830	44731 1993500	107625	211462	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	14680 637946	28803 1331064	65757 2963857	149467	317313	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	4438 253220	8860 511528	20564 1087714	58906	100860	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	6182 386152	13690 810481	37100 1787949	88931	182111	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	6068 324523	12266 697783	29652 1426019	70589	142222	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2950 157636	6066 341100	13876 685834	34863	69873	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	++++ 47979	++++ 112920	3269 219913	9914	19338	++++ 500	++++ 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	6206 293907	10572 658264	24732 1369533	64716	125677	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	3833 207588	7413 473265	17018 1045733	52891	96176	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	6020 374124	12296 830658	32159 1783535	81492	162768	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	++++ 884081	33719 1950682	69071 4060576	196849	402650	++++ 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	12063 606476	23952 1310818	54330 2692331	136928	275079	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 338295	13026 765911	24992 1624135	68595	144227	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	5987 289621	10327 674087	23444 1457312	63301	134563	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 177406	6558 373856	13641 774148	36625	76511	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5240 249558	9566 549164	24788 1163724	57344	112943	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	7690 358545	13785 792594	28021 1668338	87222	169262	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	29020 1726952	63782 3751761	138834 8133532	391670	808849	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	4433 227625	7549 514059	15792 1086260	47734	97478	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	4363 217099	7803 487727	16977 1016058	47208	95743	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 363987

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2017 15:18 Calibration End Date: 06/26/2017 18:28 Calibration ID: 30775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	13469 664189	26920 1416238	57643 2933962	149818	291543	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4219 230608	7084 521060	20504 1075130	50465	100486	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	21895 1140127	39251 2406842	100300 5065586	252968	501279	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	7923 450077	15874 928303	36895 1958150	95202	200045	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	8340 447946	15187 946582	37986 1882633	94539	196293	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	14687 745023	23641 1620300	61837 3338971	154674	321898	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	++++ 141371	6239 323434	11003 684195	28534	57954	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	21636 1177126	40049 2465419	97005 4985232	250469	499416	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	++++ 288459	11588 594595	23680 1201647	63131	120499	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	7180 284016	10466 609398	24400 1227254	68453	127155	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1492 87157	2970 195887	9081 404192	21909	43924	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 134219	4303 311235	9720 669943	25946	52585	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	23211 1305807	50183 2816828	110441 5636228	287248	587826	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	5551 272397	9815 557747	21251 1083324	56893	113662	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	19279 959470	33020 2037209	77901 3810673	209099	425692	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	15189 906330	33238 1901281	78089 3808878	206393	403499	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	++++ 214373	8361 435555	15999 797234	46028	91195	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	18956 999137	33444 2100207	84240 3960592	210212	421963	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	20074 1246570	40305 2537948	102766 4716403	273961	542943	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	11088 546566	19054 1150597	46927 2184006	116746	239819	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	17391 1059431	31090 2209096	85279 4096351	235931	459868	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1 Analy Batch No.: 363987

SDG No.: _____

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2017 15:18 Calibration End Date: 06/26/2017 18:28 Calibration ID: 30775

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	11475 554032	21385 1170583	49598 2255695	126566	249537	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	14298 911542	30828 1871803	80493 3373341	203898	390078	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	9617 530861	19594 1109177	43102 2087824	119792	232355	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 50320	1967 110414	3866 226022	11024	21427	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5388 321075	10817 675447	27763 1271481	64789	130292	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 147169	5775 285226	12295 502147	33507	67662	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	12049 856435	24375 1822520	55076 3650182	156187	323690	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5228 266637	8243 543954	22003 1117295	58980	109395	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	217818 226203	223326 226494	218465 233900	217488	222906	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	330722 326958	343507 331337	333099 325815	343275	343633	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	876064 875986	893588 885274	872326 901911	895684	931352	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	289229 284354	294563 298619	295009 302590	306365	305305	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D
 Lims ID: IC 0.5
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 26-Jun-2017 15:18:30 ALS Bottle#: 12 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.5
 Misc. Info.: 480-0063590-006
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 10:17:55 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK042

First Level Reviewer: sonkera

Date: 26-Jun-2017 22:14:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.510	5.510	0.000	97	204156	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.497	8.503	-0.006	91	734657	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.881	10.888	-0.007	95	348740	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.913	4.913	0.000	92	217818	25.0	24.4	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.218	5.218	0.000	0	330722	25.0	24.7	
\$ 6 Toluene-d8 (Surr)	98	7.018	7.018	0.000	94	876064	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	90	289229	25.0	24.5	
11 Dichlorodifluoromethane	85	1.367	1.367	0.000	95	4903	0.5000	0.4823	
13 Chloromethane	50	1.531	1.525	0.006	94	13644	0.5000	0.5858	
14 Vinyl chloride	62	1.622	1.634	-0.012	46	6663	0.5000	0.4152	
144 Butadiene	54	1.653	1.659	-0.006	96	8128	0.5000	0.4184	
15 Bromomethane	94	1.945	1.945	0.000	22	2211	0.5000	0.4875	
16 Chloroethane	64	2.048	2.042	0.006	1	2657	0.5000	0.4126	M
17 Dichlorofluoromethane	67	2.243	2.255	-0.012	42	5736	0.5000	0.3716	
18 Trichlorofluoromethane	101	2.261	2.267	-0.006	1	4917	0.5000	0.3631	M
19 Ethyl ether	59	2.553	2.553	0.000	63	8477	0.5000	0.5302	
20 Acrolein	56	2.717	2.711	0.006	75	11035	2.50	3.31	
22 1,1-Dichloroethene	96	2.760	2.766	-0.006	38	3384	0.5000	0.3940	
21 1,1,2-Trichloro-1,2,2-trif	101	2.778	2.766	0.012	36	2606	0.5000	0.3141	
23 Acetone	43	2.857	2.863	-0.006	82	21199	2.50	3.21	
24 Iodomethane	142	2.918	2.918	0.000	78	6489	0.5000	0.4555	
25 Carbon disulfide	76	2.967	2.967	0.000	95	13795	0.5000	0.4662	
27 3-Chloro-1-propene	41	3.125	3.131	-0.006	81	19161	0.5000	0.5764	
28 Methyl acetate	43	3.174	3.167	0.007	98	40928	2.50	2.34	
30 Methylene Chloride	84	3.265	3.259	0.006	72	8948	0.5000	0.8114	
31 2-Methyl-2-propanol	59	3.423	3.417	0.006	58	5903	5.00	4.41	
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	73	14169	0.5000	0.4406	
33 trans-1,2-Dichloroethene	96	3.508	3.502	0.006	84	4414	0.5000	0.4457	
34 Acrylonitrile	53	3.526	3.520	0.006	97	41765	5.00	4.67	
35 Hexane	57	3.721	3.721	0.000	1	12488	0.5000	0.4937	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.904	3.910	-0.006	37	11439	0.5000	0.4729	
39 Vinyl acetate	43	3.958	3.958	0.000	96	35603	1.00	0.9002	
42 2,2-Dichloropropane	77	4.427	4.427	0.000	26	5593	0.5000	0.5189	
43 cis-1,2-Dichloroethene	96	4.463	4.451	0.012	48	4681	0.5000	0.4267	
44 2-Butanone (MEK)	43	4.488	4.482	0.006	94	23086	2.50	2.25	M
47 Chlorobromomethane	128	4.676	4.682	-0.006	30	2448	0.5000	0.4560	
49 Tetrahydrofuran	42	4.719	4.719	0.000	54	7039	1.00	0.9640	
50 Chloroform	83	4.761	4.761	0.000	96	9732	0.5000	0.5412	
51 1,1,1-Trichloroethane	97	4.901	4.895	0.006	35	7768	0.5000	0.5605	
52 Cyclohexane	56	4.919	4.920	-0.001	33	10331	0.5000	0.3700	M
53 Carbon tetrachloride	117	5.035	5.041	-0.006	68	5127	0.5000	0.4125	
54 1,1-Dichloropropene	75	5.047	5.047	0.000	72	5657	0.5000	0.4214	
56 Isobutyl alcohol	43	5.230	5.230	0.000	47	10868	12.5	12.6	
55 Benzene	78	5.242	5.242	0.000	88	18361	0.5000	0.4490	
57 1,2-Dichloroethane	62	5.291	5.291	0.000	96	10212	0.5000	0.5021	
59 n-Heptane	43	5.449	5.449	0.000	91	14680	0.5000	0.5018	
60 Trichloroethene	95	5.850	5.856	-0.006	83	4438	0.5000	0.4383	
62 Methylcyclohexane	83	5.996	5.996	0.000	86	6182	0.5000	0.3806	
63 1,2-Dichloropropane	63	6.075	6.082	-0.007	82	6068	0.5000	0.4469	
64 Dibromomethane	93	6.209	6.209	0.000	91	2950	0.5000	0.4471	
66 1,4-Dioxane	88		6.228				ND	ND	M
67 Dichlorobromomethane	83	6.367	6.361	0.006	90	6206	0.5000	0.4997	
69 2-Chloroethyl vinyl ether	63	6.653	6.647	0.006	76	3833	0.5000	0.4267	
71 cis-1,3-Dichloropropene	75	6.781	6.787	-0.006	80	6020	0.5000	0.3940	
72 4-Methyl-2-pentanone (MIBK)	58	6.933	6.927	0.006	97	14902	2.50	2.00	
73 Toluene	92	7.091	7.085	0.006	95	12063	0.5000	0.4684	
75 trans-1,3-Dichloropropene	75	7.341	7.347	-0.006	80	5225	0.5000	0.3739	
77 Ethyl methacrylate	69	7.408	7.408	0.000	82	5987	0.5000	0.4842	
78 1,1,2-Trichloroethane	83	7.529	7.535	-0.006	83	2335	0.5000	0.3255	
79 Tetrachloroethene	166	7.633	7.627	0.006	1	5240	0.5000	0.4807	M
80 1,3-Dichloropropane	76	7.694	7.700	-0.006	0	7690	0.5000	0.4988	M
82 2-Hexanone	43	7.767	7.767	0.000	97	29020	2.50	2.03	M
83 Chlorodibromomethane	129	7.943	7.937	0.006	1	4433	0.5000	0.4846	
84 Ethylene Dibromide	107	8.053	8.040	0.013	23	4363	0.5000	0.4846	
85 Chlorobenzene	112	8.533	8.527	0.006	94	13469	0.5000	0.4801	
89 1,1,1,2-Tetrachloroethane	131	8.624	8.624	0.000	43	4219	0.5000	0.4458	
88 Ethylbenzene	91	8.630	8.631	-0.001	98	21895	0.5000	0.4665	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	7923	0.5000	0.4395	
91 o-Xylene	106	9.184	9.178	0.006	95	8340	0.5000	0.4634	
92 Styrene	104	9.202	9.202	0.000	91	14687	0.5000	0.4881	
93 Bromoform	173	9.427	9.440	-0.013	1	1672	0.5000	0.2796	
95 Isopropylbenzene	105	9.567	9.561	0.006	94	21636	0.5000	0.4705	
97 Bromobenzene	156	9.908	9.896	0.012	87	4364	0.5000	0.3772	
98 1,1,2,2-Tetrachloroethane	83	9.938	9.932	0.006	27	7180	0.5000	0.5947	
99 1,2,3-Trichloropropane	110	9.963	9.969	-0.006	30	1492	0.5000	0.4000	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	39	1799	0.5000	0.3417	
100 N-Propylbenzene	91	9.987	9.987	0.000	70	23211	0.5000	0.4410	
102 2-Chlorotoluene	126	10.084	10.085	0.000	94	5551	0.5000	0.5236	
104 1,3,5-Trimethylbenzene	105	10.164	10.170	-0.006	52	19279	0.5000	0.5081	
105 4-Chlorotoluene	91	10.200	10.194	0.006	97	15189	0.5000	0.4214	
106 tert-Butylbenzene	134	10.486	10.486	0.000	94	3132	0.5000	0.3777	
108 1,2,4-Trimethylbenzene	105	10.535	10.535	0.000	94	18956	0.5000	0.4883	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.693	10.693	0.000	95	20074	0.5000	0.4253	
110 1,3-Dichlorobenzene	146	10.821	10.821	0.000	88	11088	0.5000	0.5103	
111 4-Isopropyltoluene	119	10.833	10.833	0.000	71	17391	0.5000	0.4350	
113 1,4-Dichlorobenzene	146	10.912	10.906	0.006	49	11475	0.5000	0.5035	
115 n-Butylbenzene	91	11.222	11.216	0.006	95	14298	0.5000	0.4103	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	63	9617	0.5000	0.4606	
117 1,2-Dibromo-3-Chloropropan	75	11.983	11.977	0.007	1	658	0.5000	0.3224	M
119 1,2,4-Trichlorobenzene	180	12.670	12.664	0.006	90	5388	0.5000	0.4408	
120 Hexachlorobutadiene	225	12.786	12.792	-0.006	78	3754	0.5000	0.6472	
121 Naphthalene	128	12.871	12.877	-0.006	27	12049	0.5000	0.4010	
122 1,2,3-Trichlorobenzene	180	13.078	13.084	-0.006	88	5228	0.5000	0.5048	
S 125 Total BTEX	1				0			2.29	
S 126 Xylenes, Total	1				0			0.9029	
S 123 1,3-Dichloropropene, Total	1				0			0.7678	
S 124 1,2-Dichloroethene, Total	1				0			0.8723	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00101	Amount Added: 0.50	Units: uL	
GAS CORP mix_00226	Amount Added: 0.50	Units: uL	
N_8260_Surr_00273	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00075	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20170626-63590.b\\N9067.D

Injection Date: 26-Jun-2017 15:18:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 0.5

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

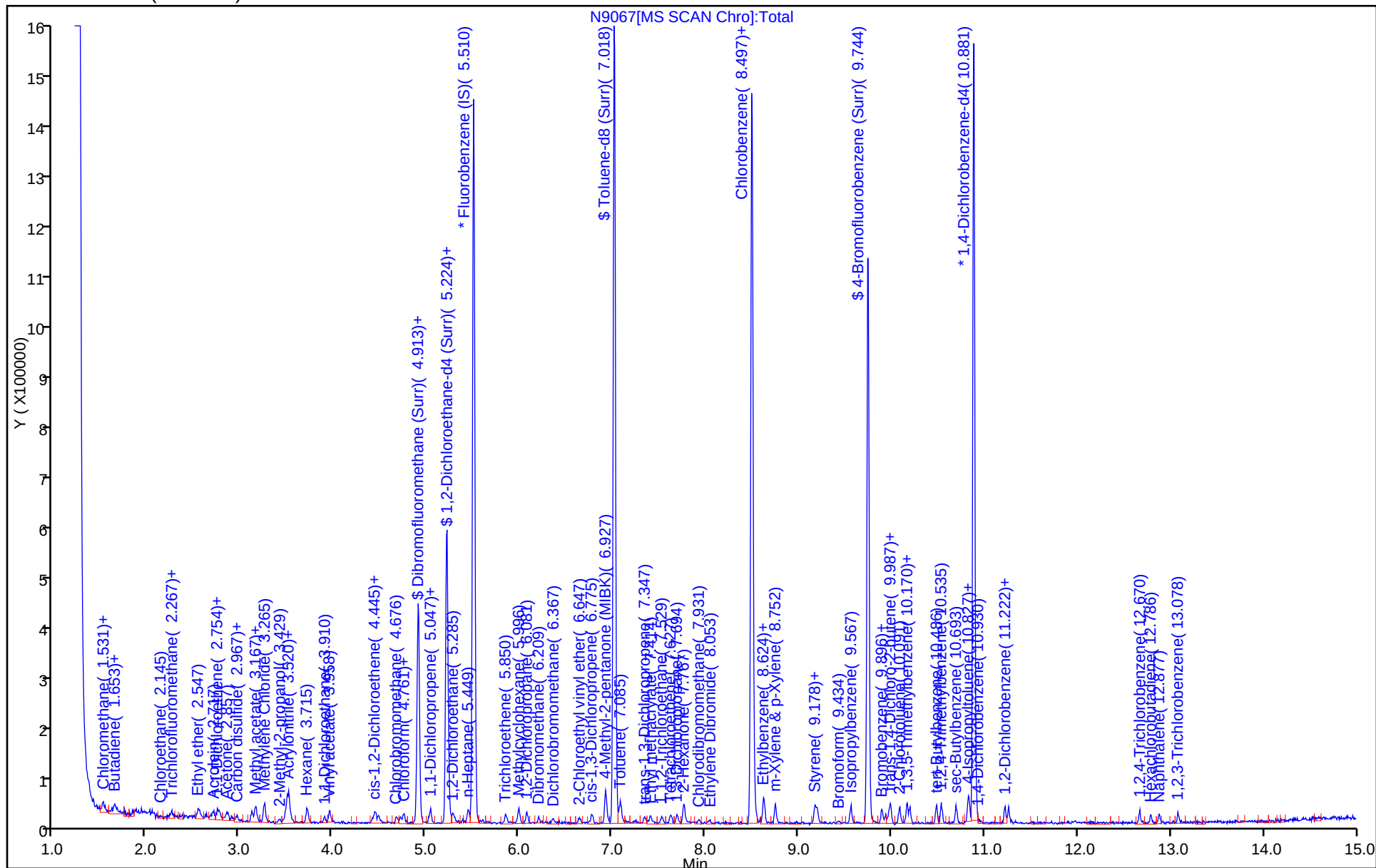
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D

Injection Date: 26-Jun-2017 15:18:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#: 12

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

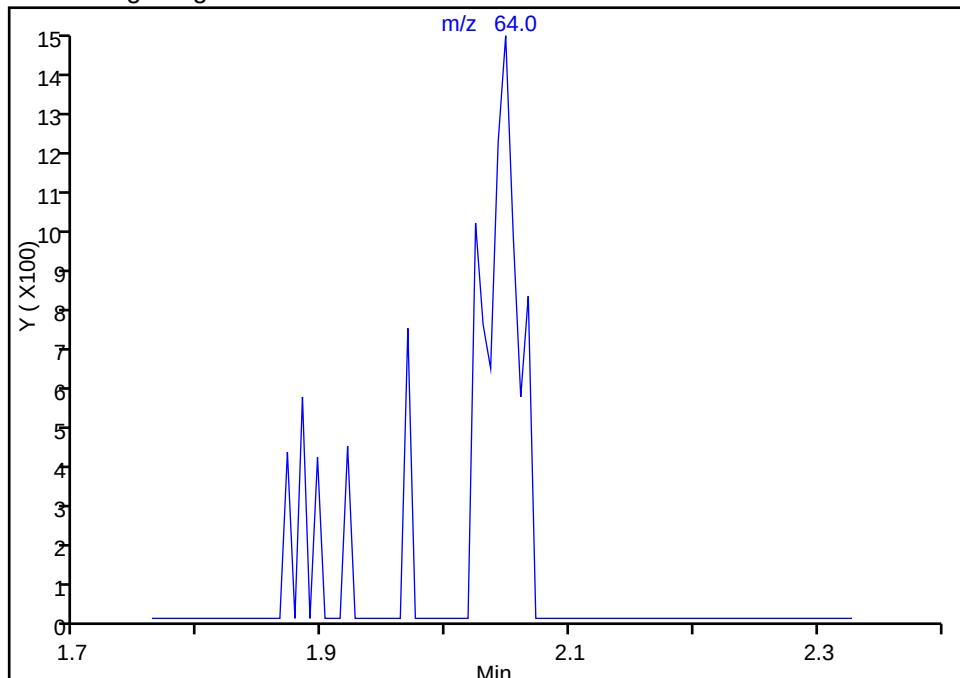
16 Chloroethane, CAS: 75-00-3

Signal: 1

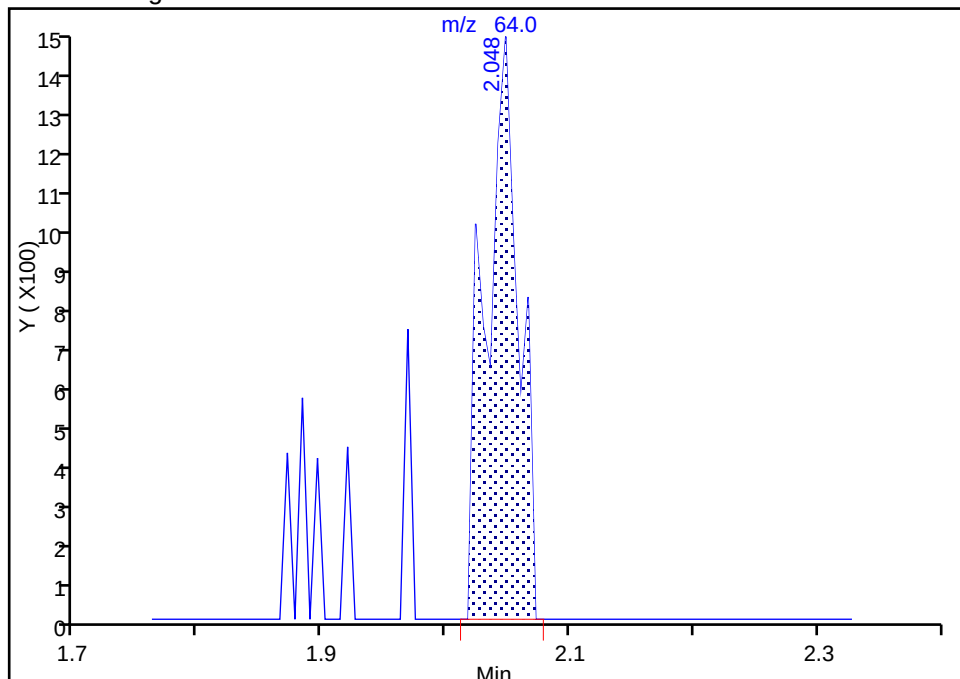
Not Detected

Expected RT: 2.04

Processing Integration Results



Manual Integration Results



RT: 2.05

Area: 2657

Amount: 0.412645

Amount Units: ug/L

Reviewer: sonkera, 27-Jun-2017 00:30:14

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D

Injection Date: 26-Jun-2017 15:18:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#:

12

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

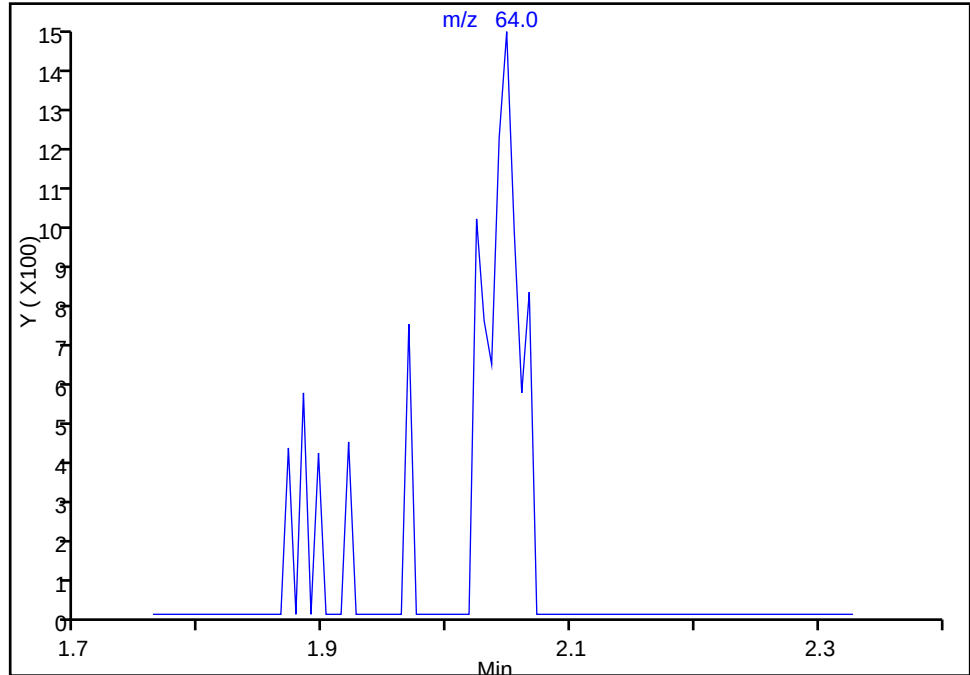
16 Chloroethane, CAS: 75-00-3

Signal: 1

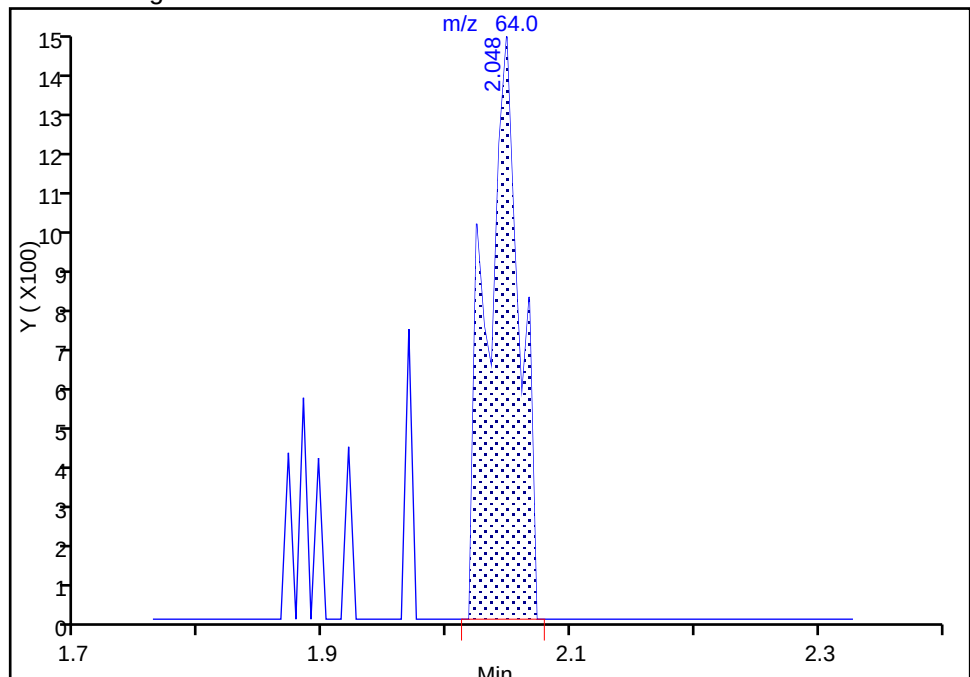
Not Detected

Expected RT: 2.04

Processing Integration Results



Manual Integration Results



RT: 2.05

Area: 2657

Amount: 0.412645

Amount Units: ug/L

Reviewer: sonkera, 27-Jun-2017 00:30:22

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

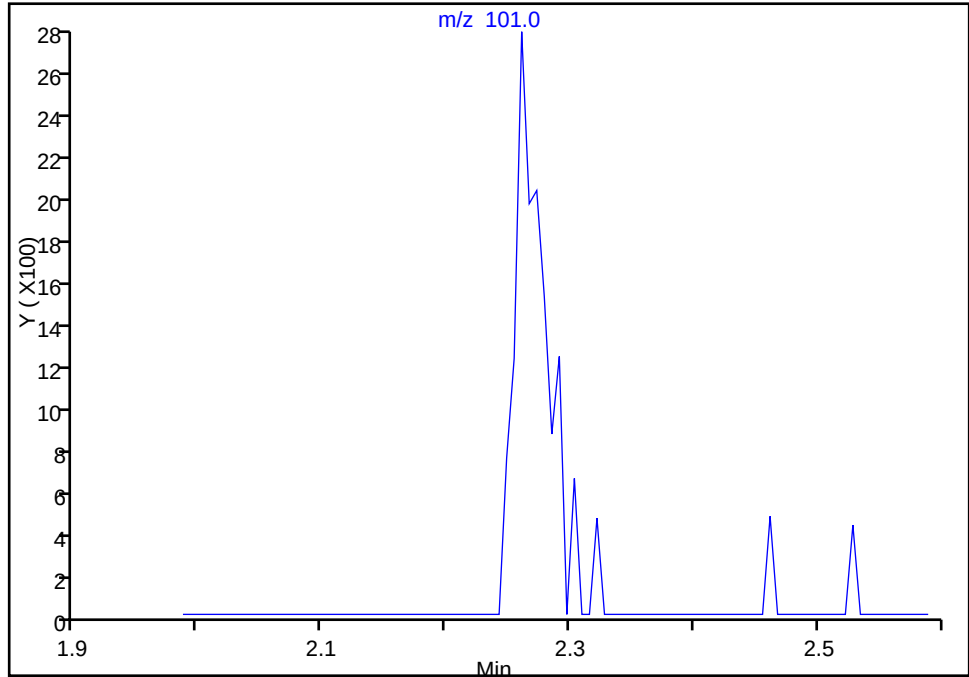
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Injection Date: 26-Jun-2017 15:18:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

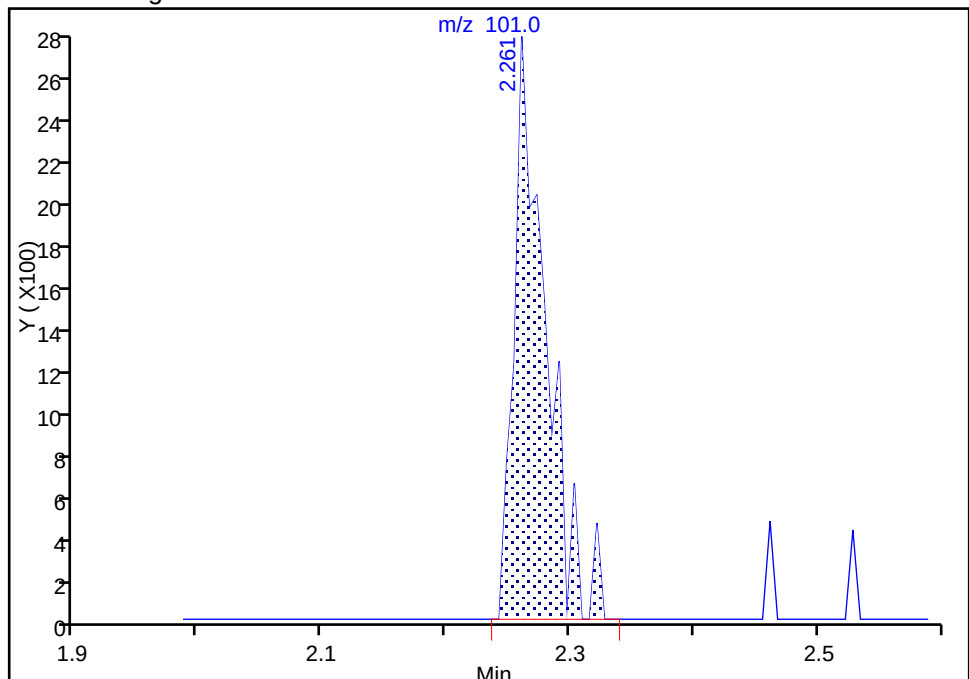
Signal: 1

Not Detected
Expected RT: 2.27

Processing Integration Results



Manual Integration Results



RT: 2.26
Area: 4917
Amount: 0.363121
Amount Units: ug/L

Reviewer: sonkera, 27-Jun-2017 00:30:27

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

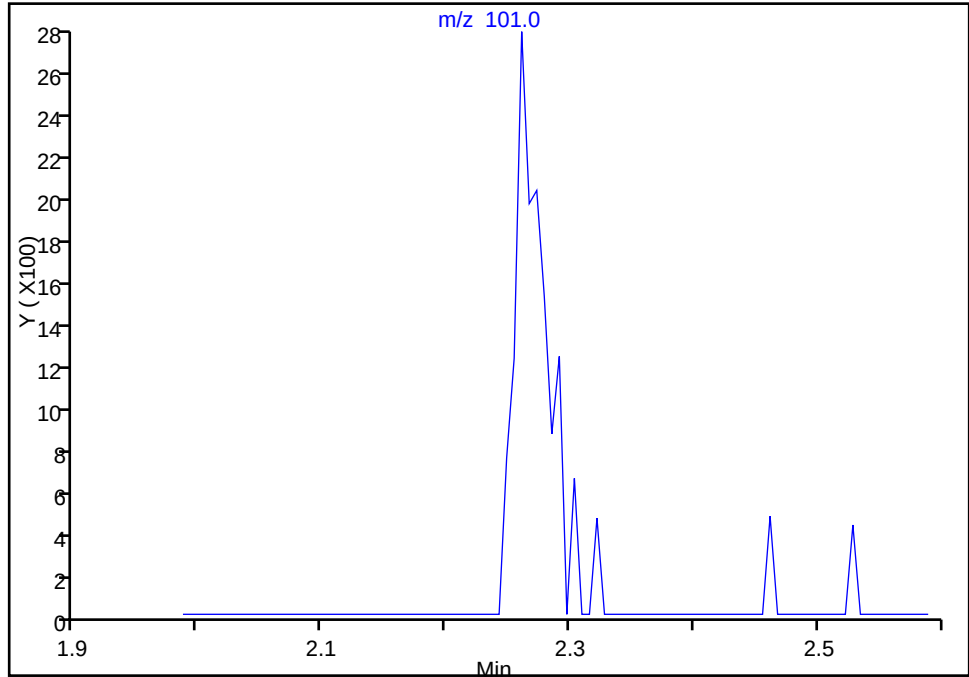
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D
Injection Date: 26-Jun-2017 15:18:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

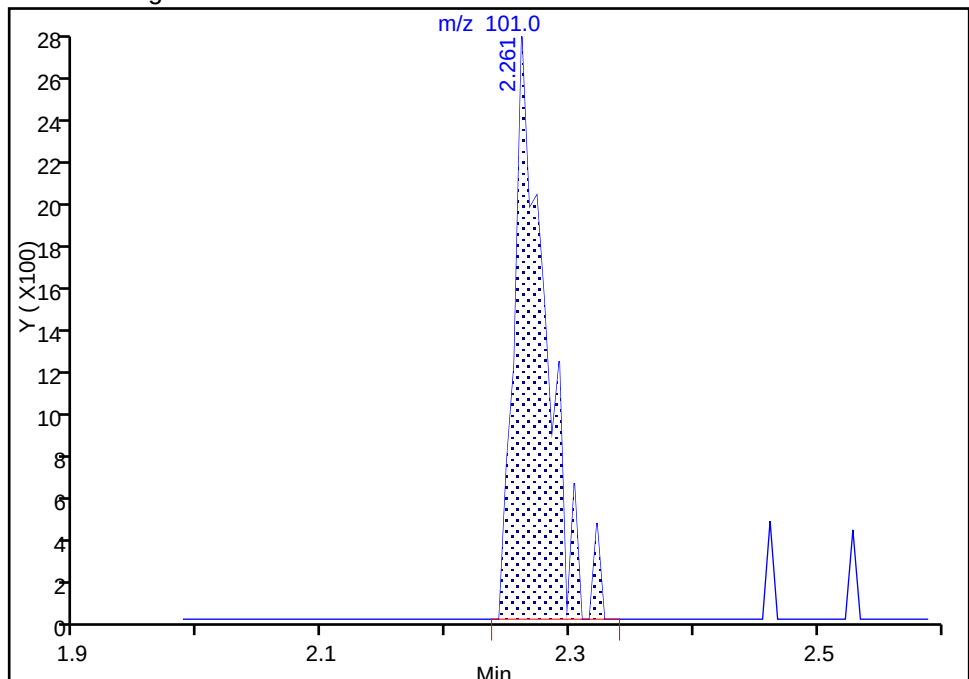
Not Detected
Expected RT: 2.27

Processing Integration Results



RT: 2.26
Area: 4917
Amount: 0.363121
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:30:32

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D

Injection Date: 26-Jun-2017 15:18:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#: 12 Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

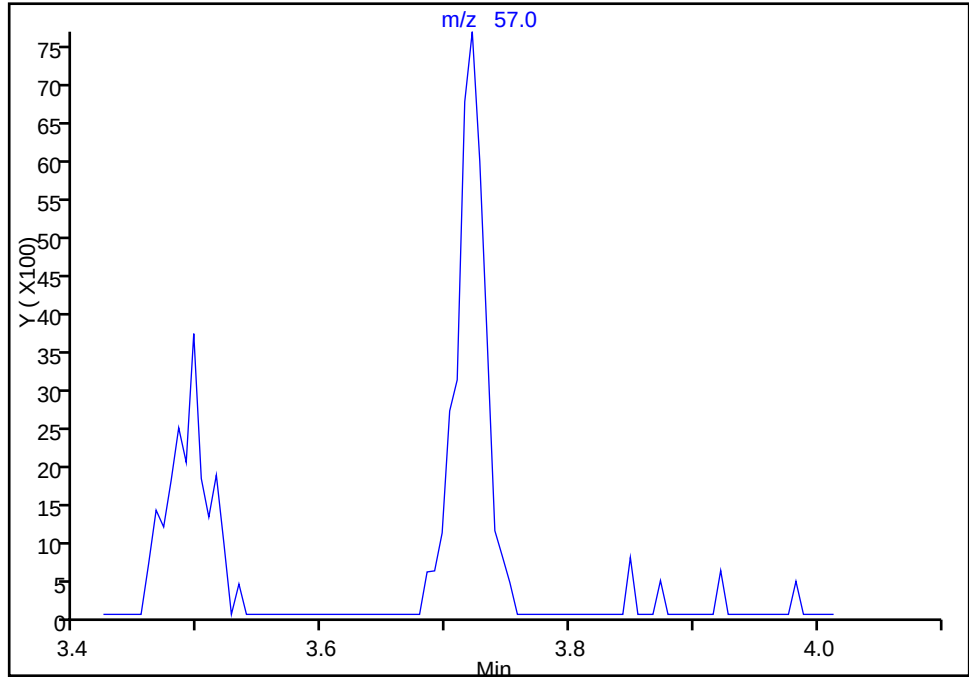
35 Hexane, CAS: 110-54-3

Signal: 1

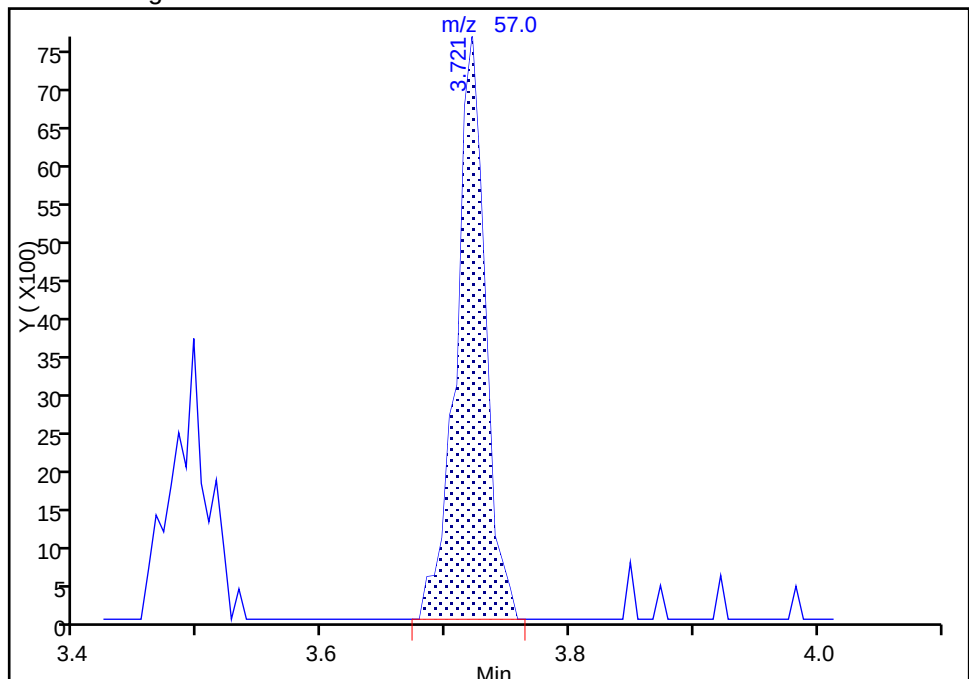
Not Detected

Expected RT: 3.72

Processing Integration Results



Manual Integration Results



RT: 3.72

Area: 12488

Amount: 0.493682

Amount Units: ug/L

Reviewer: sonkera, 27-Jun-2017 00:31:23

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

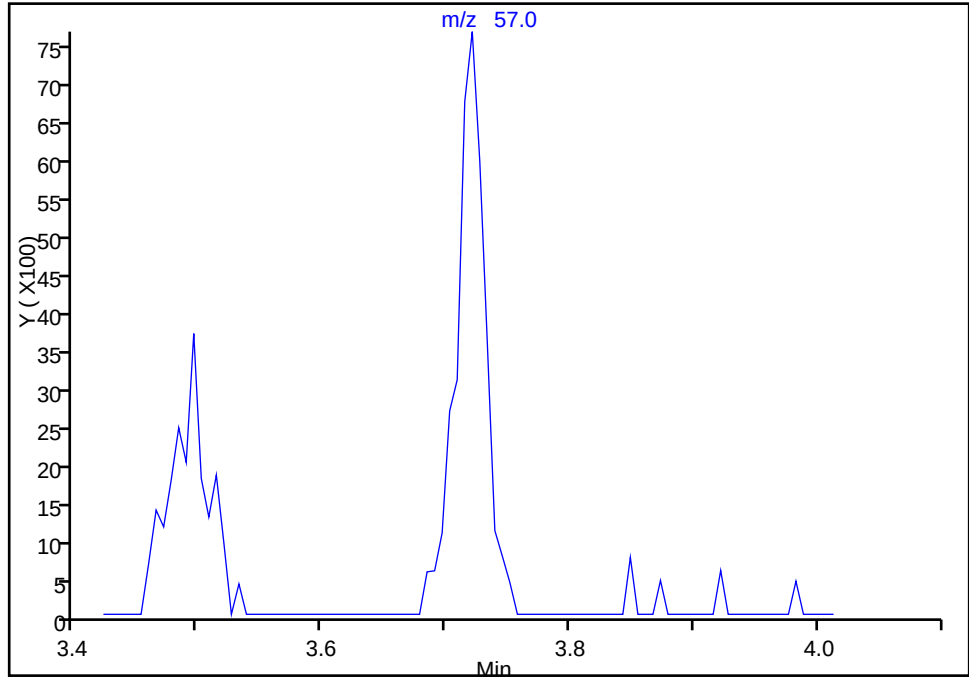
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D
Injection Date: 26-Jun-2017 15:18:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

35 Hexane, CAS: 110-54-3

Signal: 1

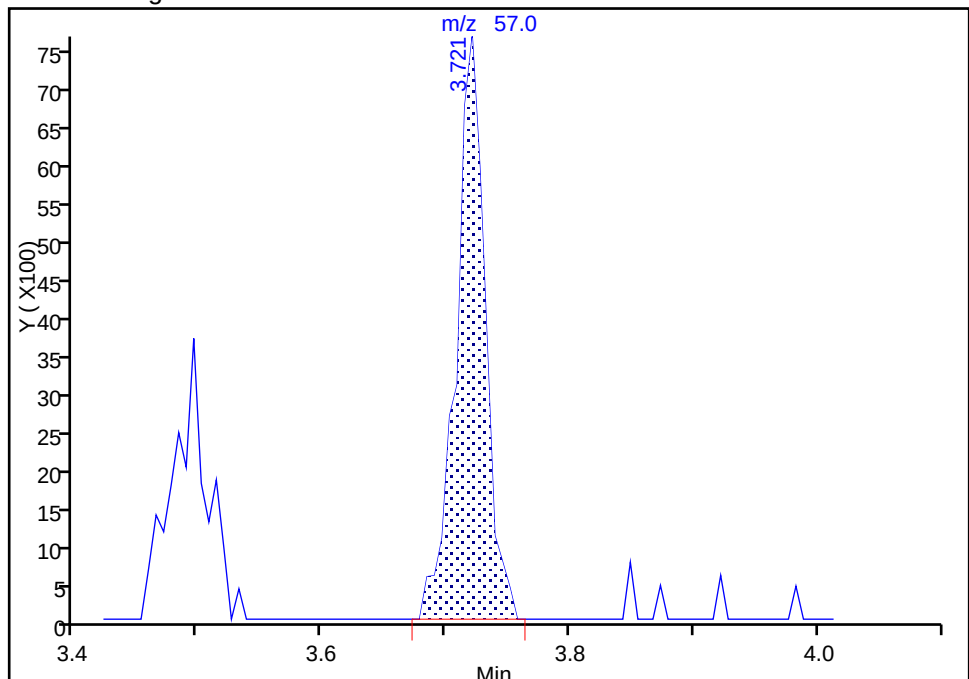
Not Detected
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.72
Area: 12488
Amount: 0.493682
Amount Units: ug/L



Reviewer: sonkera, 27-Jun-2017 00:31:25

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

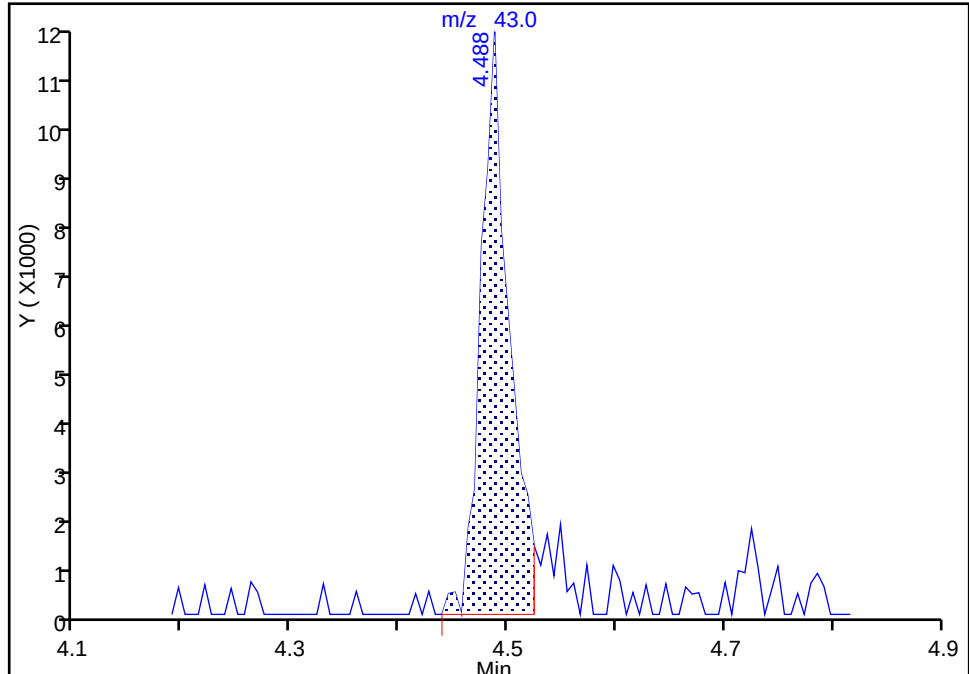
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D		
Injection Date:	26-Jun-2017 15:18:30	Instrument ID:	HP5973N
Lims ID:	IC 0.5		
Client ID:			
Operator ID:	LH	ALS Bottle#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	6

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

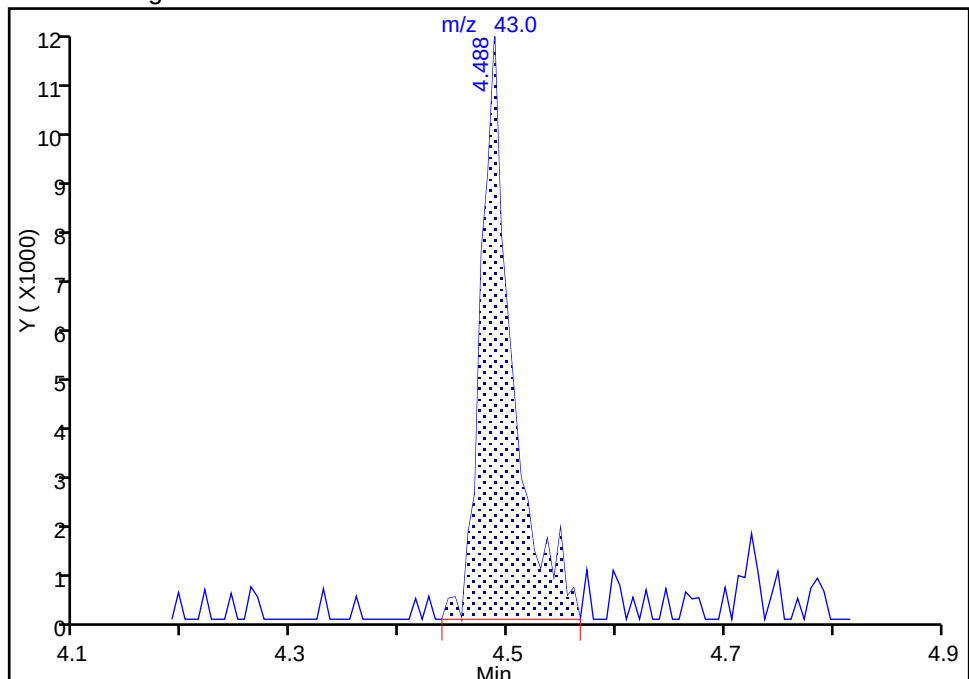
RT: 4.49
Area: 20839
Amount: 2.061672
Amount Units: ug/L

Processing Integration Results



RT: 4.49
Area: 23086
Amount: 2.245849
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:31:43

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D

Injection Date: 26-Jun-2017 15:18:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#:

12

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

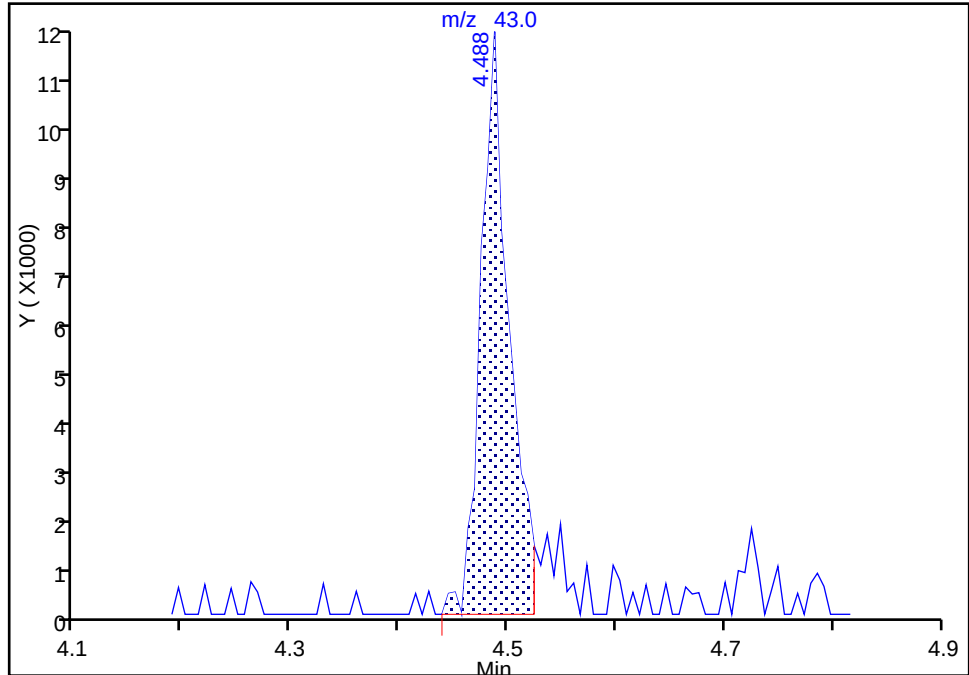
MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

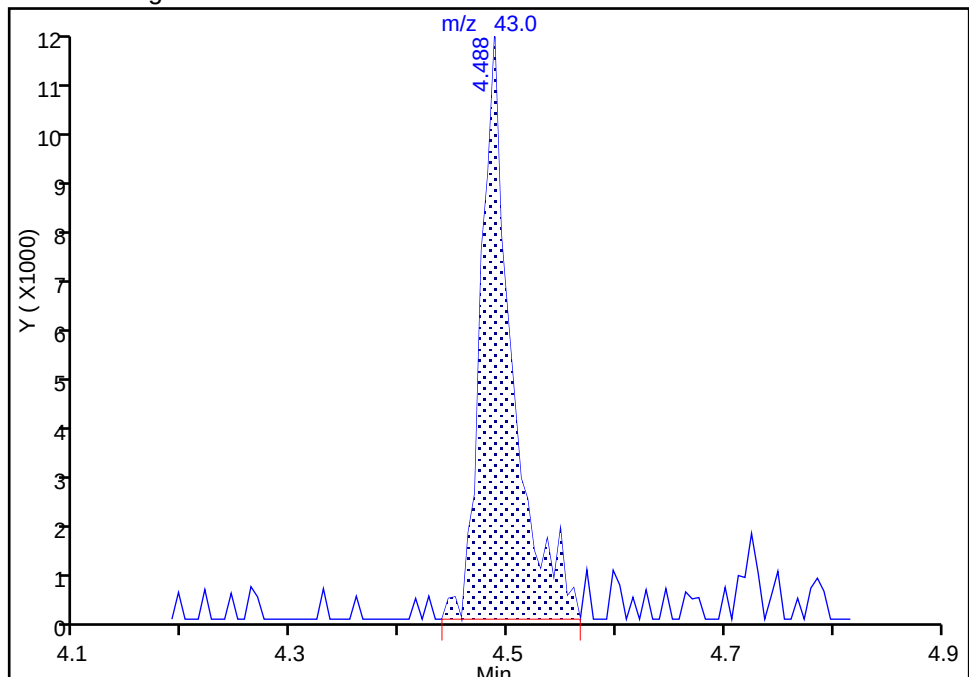
RT: 4.49
Area: 20839
Amount: 2.061672
Amount Units: ug/L

Processing Integration Results



RT: 4.49
Area: 23086
Amount: 2.245849
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:31:55

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D

Injection Date: 26-Jun-2017 15:18:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#:

12

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

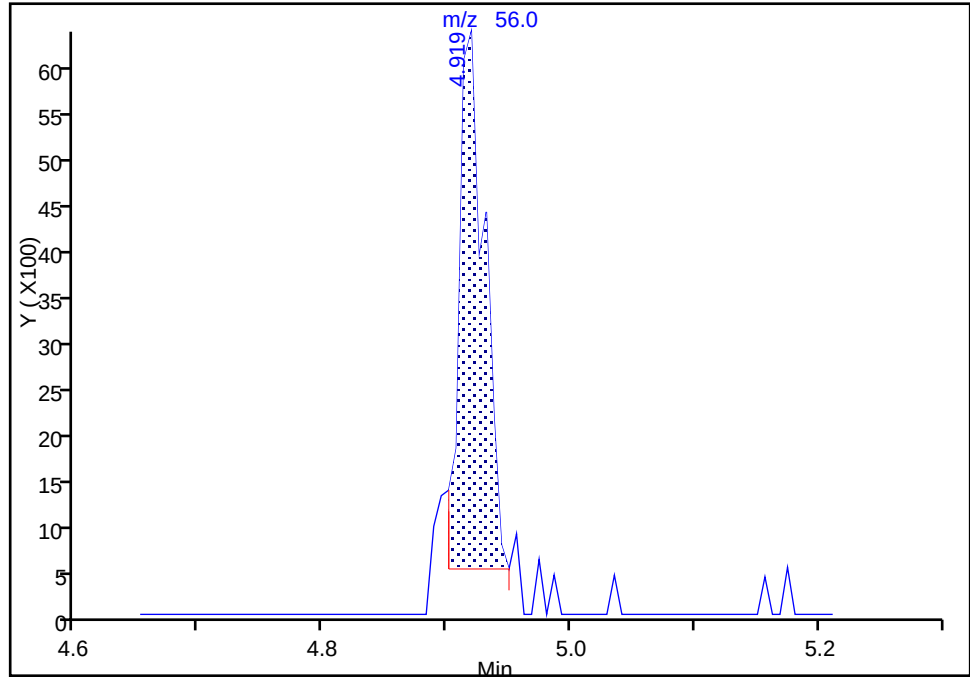
MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

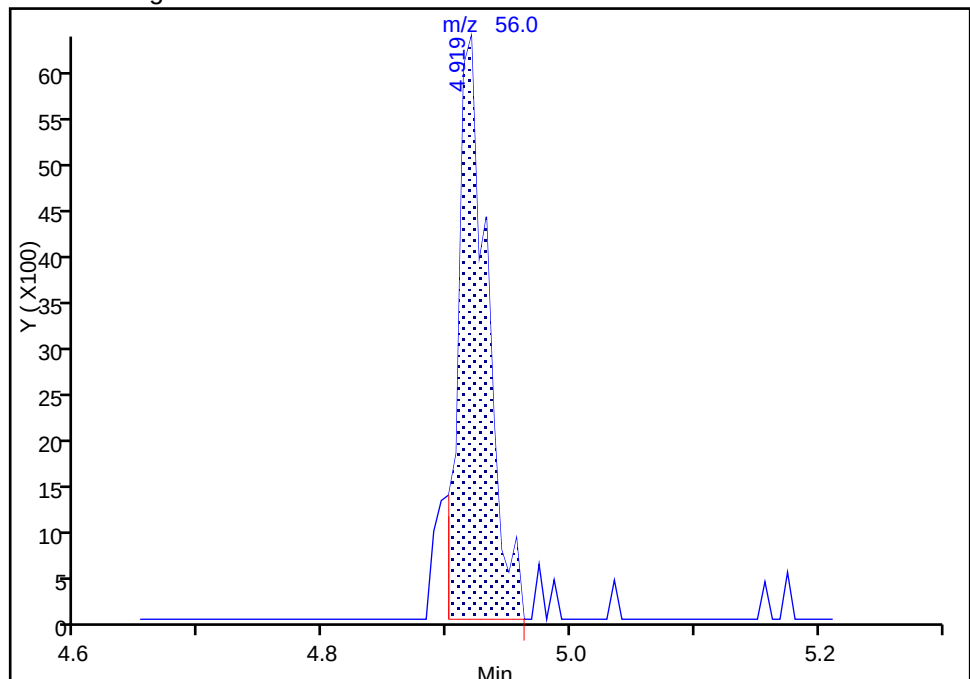
RT: 4.92
Area: 8373
Amount: 0.437296
Amount Units: ug/L

Processing Integration Results



RT: 4.92
Area: 10331
Amount: 0.369984
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:32:05

Audit Action: Assigned Compound ID

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D

Injection Date: 26-Jun-2017 15:18:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#:

12

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

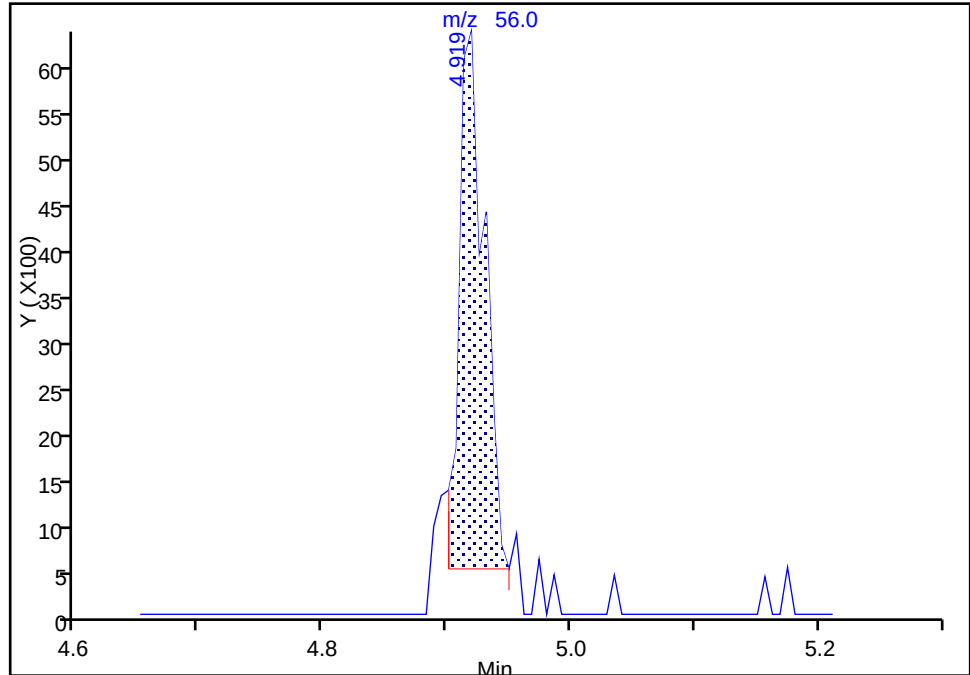
MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

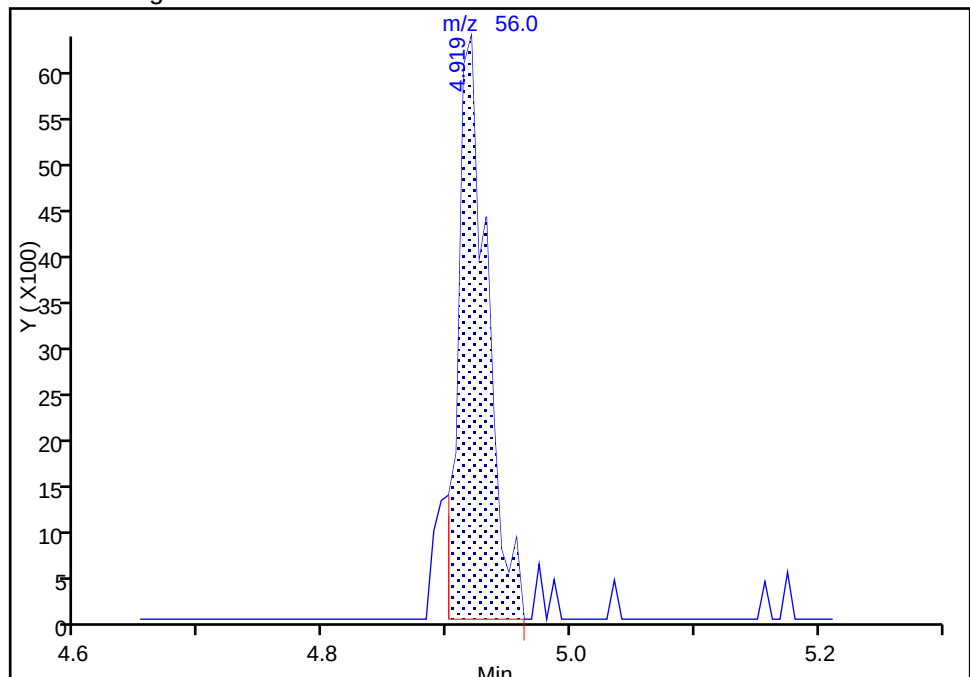
RT: 4.92
Area: 8373
Amount: 0.437296
Amount Units: ug/L

Processing Integration Results



RT: 4.92
Area: 10331
Amount: 0.369984
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:32:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo

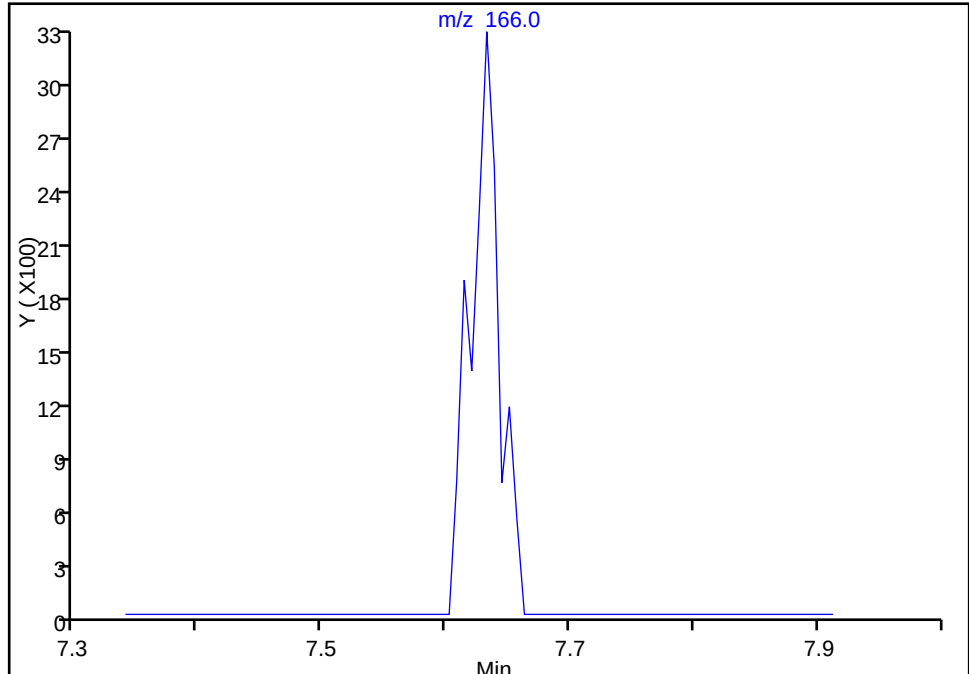
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D		
Injection Date:	26-Jun-2017 15:18:30	Instrument ID:	HP5973N
Lims ID:	IC 0.5		
Client ID:			
Operator ID:	LH	ALS Bottle#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	6

79 Tetrachloroethene, CAS: 127-18-4

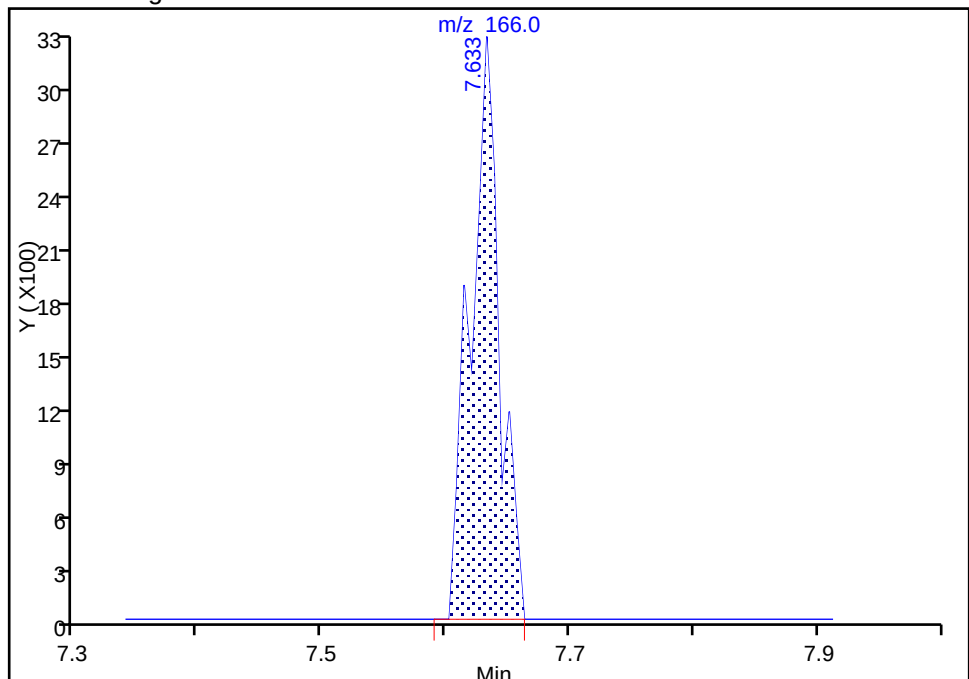
Signal: 1

Not Detected
Expected RT: 7.63

Processing Integration Results

RT: 7.63
Area: 5240
Amount: 0.480671
Amount Units: ug/L

Manual Integration Results

Reviewer: sonkera, 27-Jun-2017 00:33:25
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

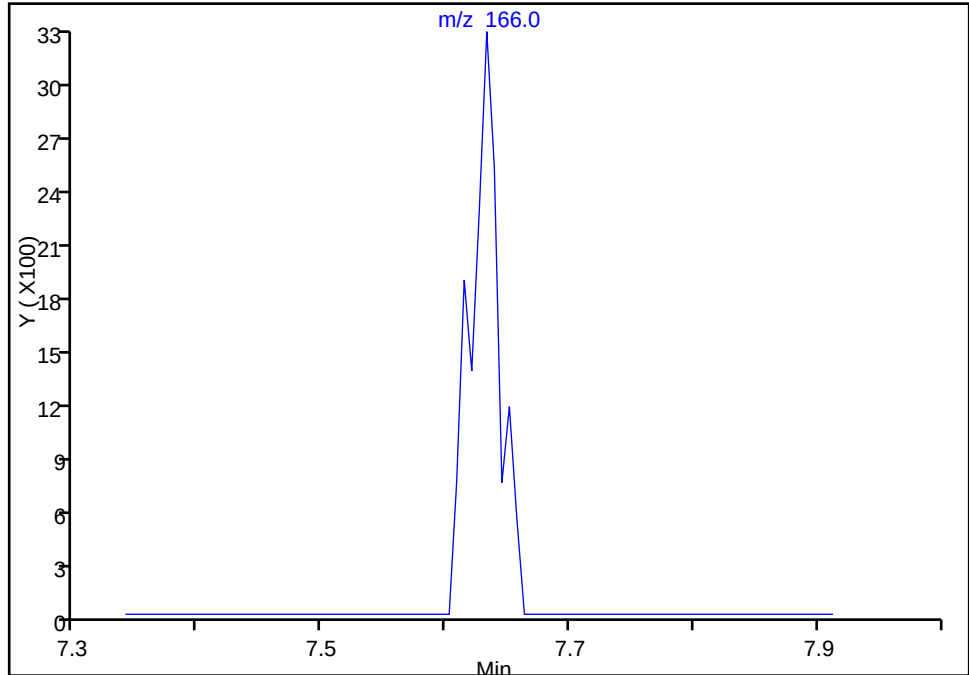
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D
Injection Date: 26-Jun-2017 15:18:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

79 Tetrachloroethene, CAS: 127-18-4

Signal: 1

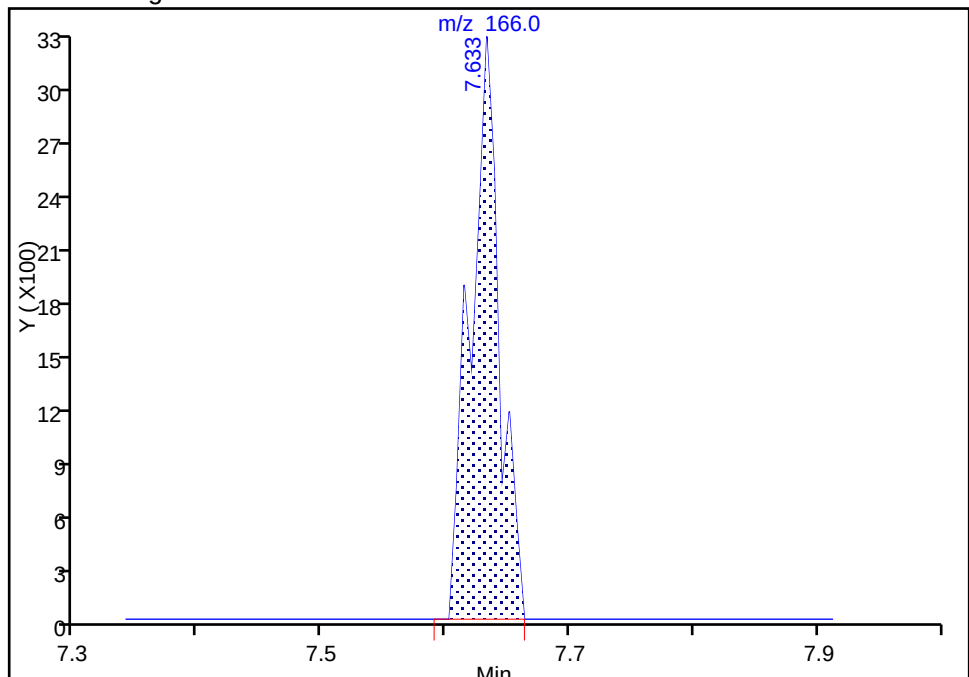
Not Detected
Expected RT: 7.63

Processing Integration Results



Manual Integration Results

RT: 7.63
Area: 5240
Amount: 0.480671
Amount Units: ug/L



Reviewer: sonkera, 27-Jun-2017 00:33:32

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D

Injection Date: 26-Jun-2017 15:18:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#:

12

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

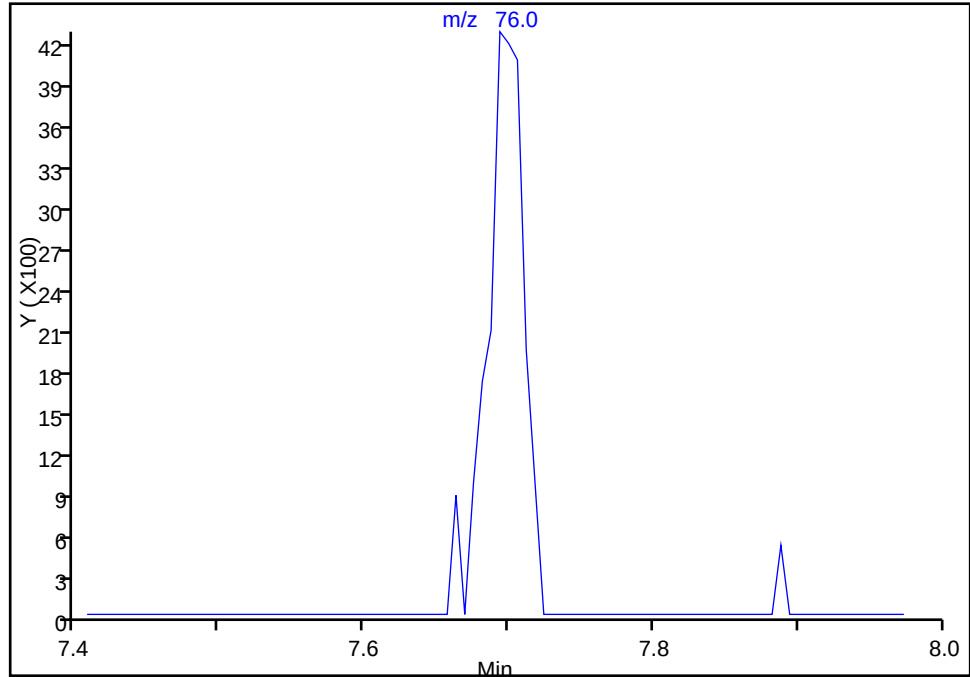
80 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

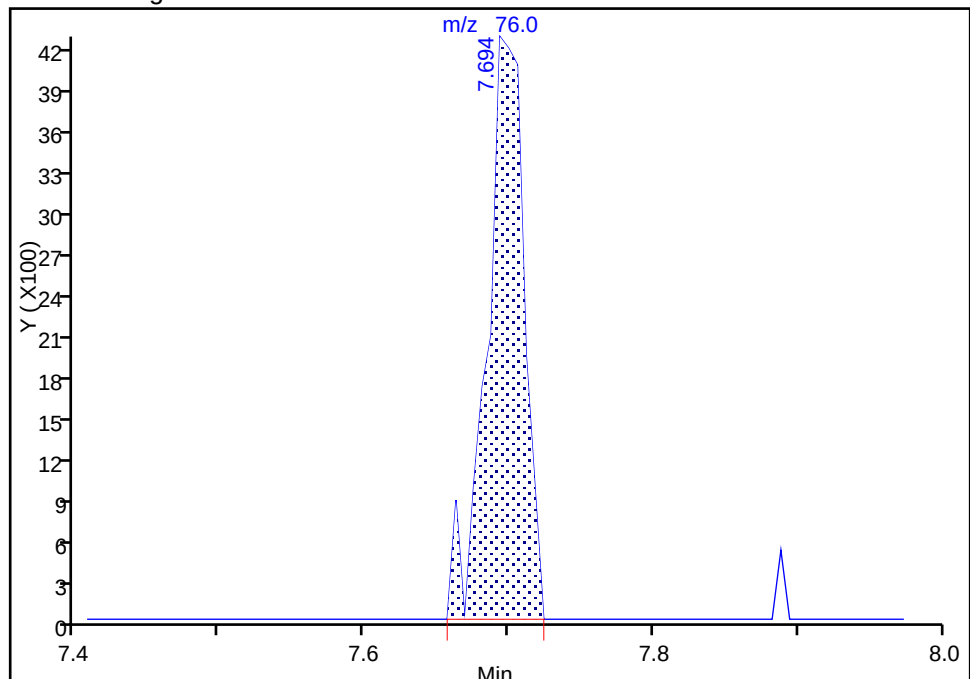
Not Detected

Expected RT: 7.70

Processing Integration Results



Manual Integration Results



RT: 7.69

Area: 7690

Amount: 0.498776

Amount Units: ug/L

Reviewer: sonkera, 27-Jun-2017 00:33:35

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D

Injection Date: 26-Jun-2017 15:18:30

Instrument ID: HP5973N

Lims ID: IC 0.5

Client ID:

Operator ID: LH

ALS Bottle#:

12

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

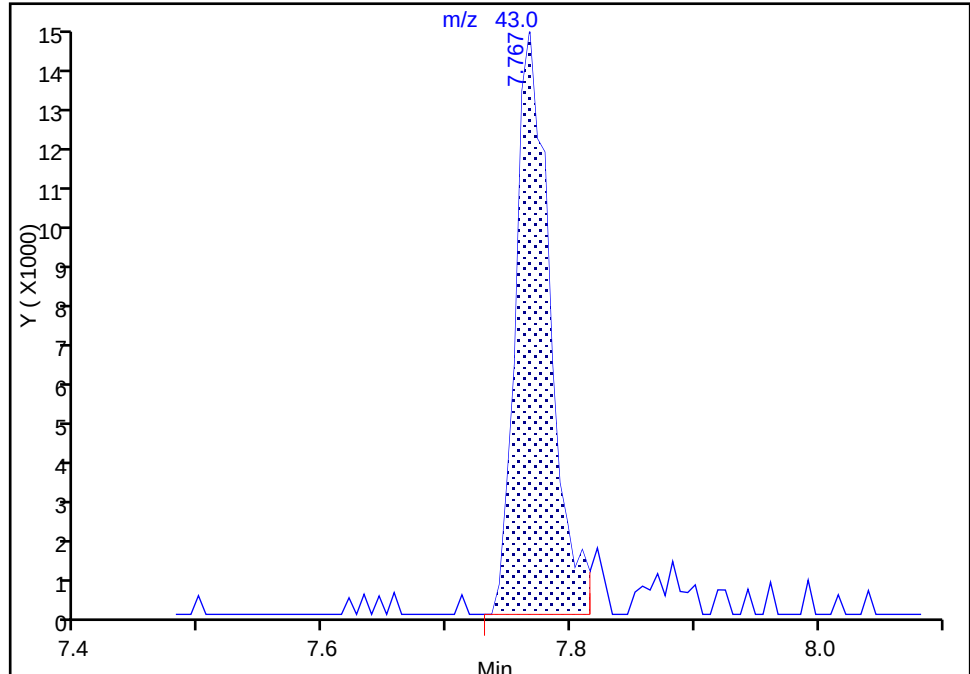
Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

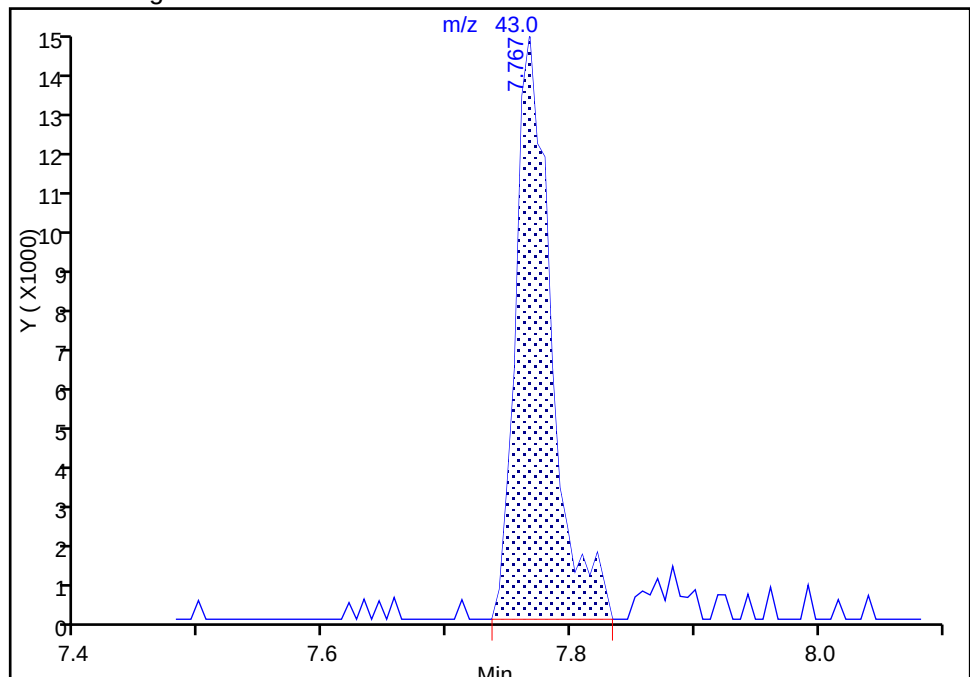
RT: 7.77
Area: 28113
Amount: 1.976244
Amount Units: ug/L

Processing Integration Results



RT: 7.77
Area: 29020
Amount: 2.033320
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:33:58

Audit Action: Manually Integrated

Audit Reason: Missed Peak

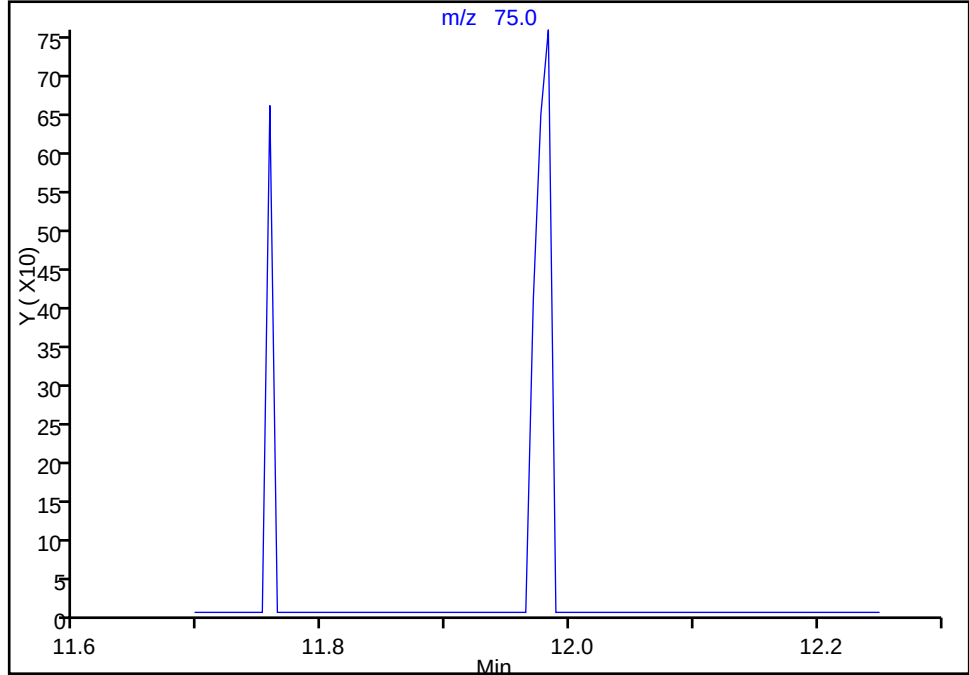
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D
Injection Date: 26-Jun-2017 15:18:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 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

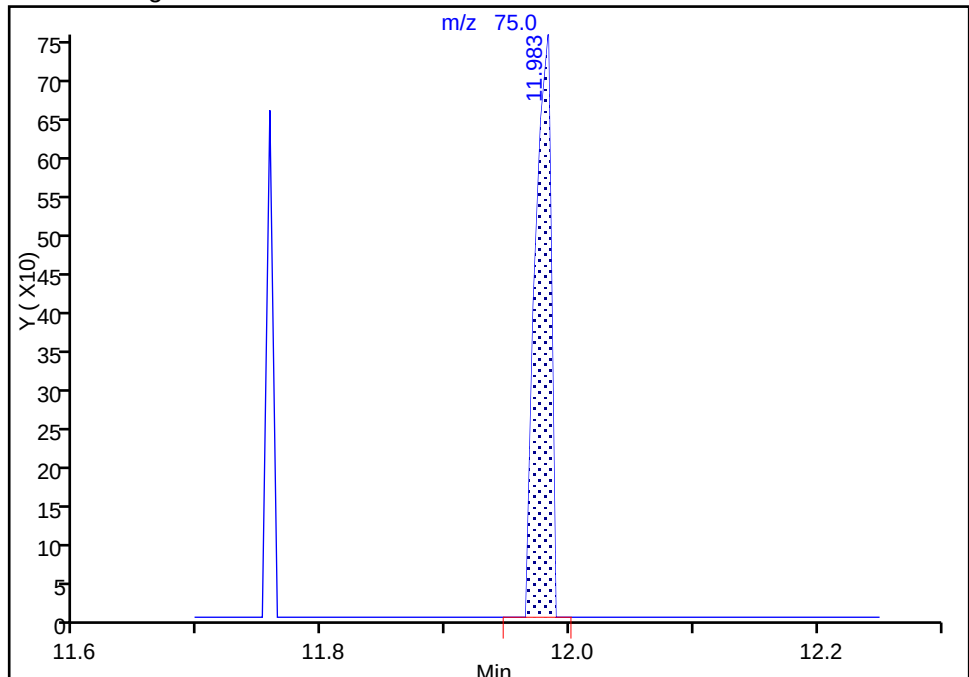
Not Detected
Expected RT: 11.98

Processing Integration Results



RT: 11.98
Area: 658
Amount: 0.322422
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:34:54
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak
Page 236 of 422

07/03/2017

TestAmerica Buffalo

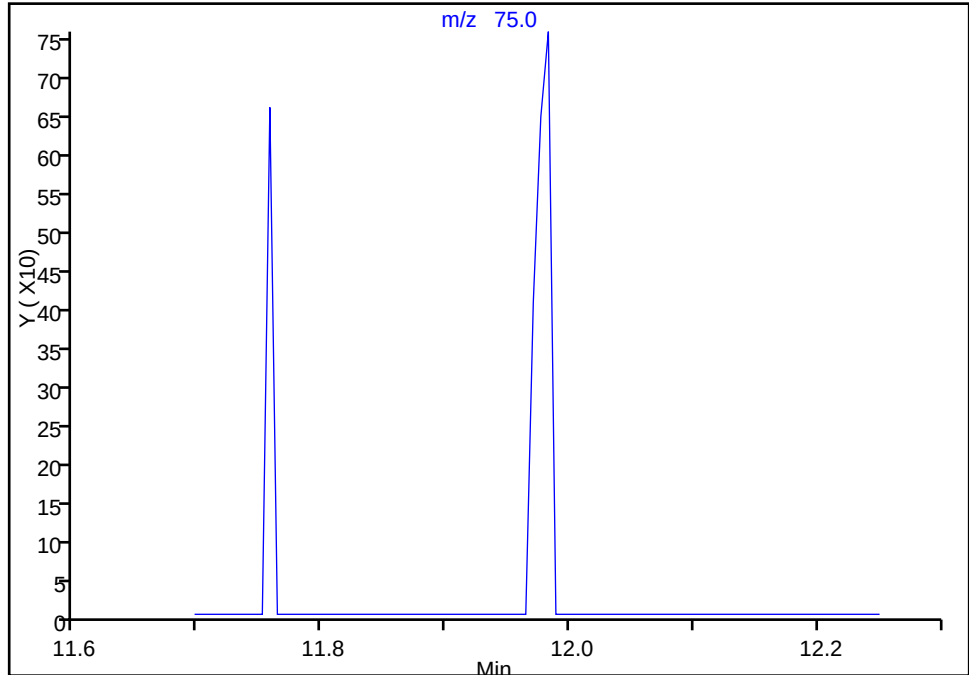
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9067.D
Injection Date: 26-Jun-2017 15:18:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 12 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

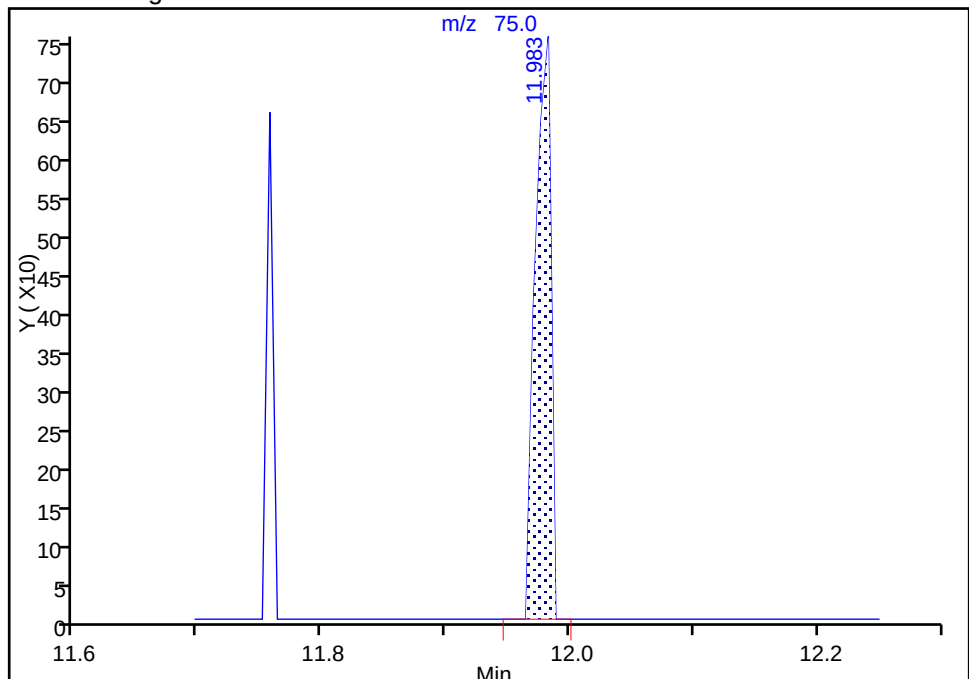
Not Detected
Expected RT: 11.98

Processing Integration Results



RT: 11.98
Area: 658
Amount: 0.322422
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:34:56

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9068.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 26-Jun-2017 15:45:30 ALS Bottle#: 13 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0063590-007
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 10:18:02 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK042

First Level Reviewer: sonkera

Date: 26-Jun-2017 22:18:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.510	5.510	0.000	97	204266	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.503	8.503	0.000	91	720932	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.887	10.888	-0.001	95	358680	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.913	4.913	0.000	94	223326	25.0	25.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.224	5.218	0.006	0	343507	25.0	25.7	
\$ 6 Toluene-d8 (Surr)	98	7.024	7.018	0.006	95	893588	25.0	25.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	91	294563	25.0	25.4	
11 Dichlorodifluoromethane	85	1.373	1.367	0.006	95	8800	1.00	0.8652	
13 Chloromethane	50	1.531	1.525	0.006	99	22330	1.00	0.9583	
14 Vinyl chloride	62	1.628	1.634	-0.006	88	15478	1.00	0.9639	
144 Butadiene	54	1.659	1.659	0.000	91	17434	1.00	0.8970	
15 Bromomethane	94	1.951	1.945	0.006	31	3577	1.00	0.7882	
16 Chloroethane	64	2.042	2.042	0.000	50	6427	1.00	1.00	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	92	13913	1.00	0.9010	
18 Trichlorofluoromethane	101	2.273	2.267	0.006	1	12230	1.00	0.9027	M
19 Ethyl ether	59	2.553	2.553	0.000	92	14367	1.00	0.8982	
20 Acrolein	56	2.711	2.711	0.000	89	13914	5.00	4.17	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.772	2.766	0.006	55	6642	1.00	0.8002	
22 1,1-Dichloroethene	96	2.766	2.766	0.000	89	7617	1.00	0.8863	
23 Acetone	43	2.863	2.863	0.000	97	34659	5.00	5.25	
24 Iodomethane	142	2.918	2.918	0.000	98	11757	1.00	0.8249	
25 Carbon disulfide	76	2.967	2.967	0.000	97	26540	1.00	0.8963	
27 3-Chloro-1-propene	41	3.131	3.131	0.000	84	33140	1.00	1.00	
28 Methyl acetate	43	3.167	3.167	0.000	99	79243	5.00	4.52	
30 Methylene Chloride	84	3.265	3.259	0.006	1	12210	1.00	1.11	M
31 2-Methyl-2-propanol	59	3.417	3.417	0.000	60	11465	10.0	8.56	
32 Methyl tert-butyl ether	73	3.496	3.490	0.006	87	29297	1.00	0.9105	
33 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	88	9451	1.00	0.9537	
34 Acrylonitrile	53	3.520	3.520	0.000	98	83894	10.0	9.37	
35 Hexane	57	3.721	3.721	0.000	86	22428	1.00	0.8862	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.903	3.910	-0.007	69	21774	1.00	0.8996	
39 Vinyl acetate	43	3.964	3.958	0.006	96	69946	2.00	1.77	
42 2,2-Dichloropropane	77	4.427	4.427	0.000	71	11311	1.00	1.05	
43 cis-1,2-Dichloroethene	96	4.451	4.451	0.000	90	10635	1.00	0.9689	
44 2-Butanone (MEK)	43	4.488	4.482	0.006	96	46660	5.00	4.54	M
47 Chlorobromomethane	128	4.688	4.682	0.006	83	4361	1.00	0.8119	
49 Tetrahydrofuran	42	4.725	4.719	0.006	85	12711	2.00	1.74	
50 Chloroform	83	4.761	4.761	0.000	95	17034	1.00	0.9467	
51 1,1,1-Trichloroethane	97	4.895	4.895	0.000	97	13535	1.00	0.9761	
52 Cyclohexane	56	4.926	4.920	0.006	35	23027	1.00	0.8242	
53 Carbon tetrachloride	117	5.041	5.041	0.000	78	10974	1.00	0.8824	
54 1,1-Dichloropropene	75	5.047	5.047	0.000	83	13201	1.00	0.9828	
56 Isobutyl alcohol	43	5.236	5.230	0.006	47	18137	25.0	21.0	
55 Benzene	78	5.248	5.242	0.006	92	39305	1.00	0.9606	
57 1,2-Dichloroethane	62	5.297	5.291	0.006	92	18319	1.00	0.9002	
59 n-Heptane	43	5.455	5.449	0.006	91	28803	1.00	0.9839	
60 Trichloroethene	95	5.850	5.856	-0.006	86	8860	1.00	0.8745	
62 Methylcyclohexane	83	5.990	5.996	-0.006	90	13690	1.00	0.8425	
63 1,2-Dichloropropane	63	6.075	6.082	-0.007	87	12266	1.00	0.9028	
64 Dibromomethane	93	6.215	6.209	0.006	84	6066	1.00	0.9190	
66 1,4-Dioxane	88	6.240	6.228	0.012	1	1017	20.0	10.6	M
67 Dichlorobromomethane	83	6.367	6.361	0.006	88	10572	1.00	0.8508	
69 2-Chloroethyl vinyl ether	63	6.647	6.647	0.000	79	7413	1.00	0.8248	
71 cis-1,3-Dichloropropene	75	6.787	6.787	0.000	80	12296	1.00	0.8042	
72 4-Methyl-2-pentanone (MIBK)	58	6.927	6.927	0.000	97	33719	5.00	4.62	
73 Toluene	92	7.085	7.085	0.000	95	23952	1.00	0.9477	
75 trans-1,3-Dichloropropene	75	7.347	7.347	0.000	89	13026	1.00	0.9498	
77 Ethyl methacrylate	69	7.408	7.408	0.000	87	10327	1.00	0.8512	
78 1,1,2-Trichloroethane	83	7.548	7.535	0.013	85	6558	1.00	0.9315	
79 Tetrachloroethene	166	7.633	7.627	0.006	1	9566	1.00	0.8942	M
80 1,3-Dichloropropane	76	7.694	7.700	-0.006	86	13785	1.00	0.9111	
82 2-Hexanone	43	7.773	7.767	0.006	97	63782	5.00	4.55	
83 Chlorodibromomethane	129	7.937	7.937	0.000	91	7549	1.00	0.8410	
84 Ethylene Dibromide	107	8.040	8.040	0.000	92	7803	1.00	0.8832	
85 Chlorobenzene	112	8.527	8.527	0.000	92	26920	1.00	0.9779	
89 1,1,1,2-Tetrachloroethane	131	8.624	8.624	0.000	45	7084	1.00	0.7628	
88 Ethylbenzene	91	8.630	8.631	-0.001	96	39251	1.00	0.8523	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	15874	1.00	0.8973	
91 o-Xylene	106	9.178	9.178	0.000	95	15187	1.00	0.8599	
92 Styrene	104	9.202	9.202	0.000	90	23641	1.00	0.8006	
93 Bromoform	173	9.440	9.440	0.000	84	6239	1.00	1.06	
95 Isopropylbenzene	105	9.561	9.561	0.000	95	40049	1.00	0.8468	
97 Bromobenzene	156	9.902	9.896	0.006	82	11588	1.00	0.9739	
98 1,1,2,2-Tetrachloroethane	83	9.938	9.932	0.006	91	10466	1.00	0.8428	
99 1,2,3-Trichloropropane	110	9.969	9.969	0.000	86	2970	1.00	0.7743	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	65	4303	1.00	0.7947	
100 N-Propylbenzene	91	9.987	9.987	0.000	97	50183	1.00	0.9270	
102 2-Chlorotoluene	126	10.090	10.085	0.006	94	9815	1.00	0.9001	
104 1,3,5-Trimethylbenzene	105	10.170	10.170	0.000	96	33020	1.00	0.8462	
105 4-Chlorotoluene	91	10.200	10.194	0.006	97	33238	1.00	0.8967	
106 tert-Butylbenzene	134	10.480	10.486	-0.006	92	8361	1.00	0.9805	
108 1,2,4-Trimethylbenzene	105	10.541	10.535	0.006	97	33444	1.00	0.8377	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.699	10.693	0.006	97	40305	1.00	0.8303	
110 1,3-Dichlorobenzene	146	10.827	10.821	0.006	91	19054	1.00	0.8526	
111 4-Isopropyltoluene	119	10.833	10.833	0.000	97	31090	1.00	0.7561	
113 1,4-Dichlorobenzene	146	10.906	10.906	0.000	41	21385	1.00	0.9123	
115 n-Butylbenzene	91	11.222	11.216	0.006	97	30828	1.00	0.8601	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	72	19594	1.00	0.9125	
117 1,2-Dibromo-3-Chloropropan	75	11.970	11.977	-0.006	61	1967	1.00	0.9371	
119 1,2,4-Trichlorobenzene	180	12.670	12.664	0.006	93	10817	1.00	0.8605	
120 Hexachlorobutadiene	225	12.786	12.792	-0.006	91	5775	1.00	0.9680	
121 Naphthalene	128	12.883	12.877	0.006	61	24375	1.00	0.7887	
122 1,2,3-Trichlorobenzene	180	13.084	13.084	0.000	91	8243	1.00	0.7738	
S 123 1,3-Dichloropropene, Total	1				0			1.75	
S 124 1,2-Dichloroethene, Total	1				0			1.92	
S 125 Total BTEX	1				0			4.52	
S 126 Xylenes, Total	1				0			1.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00101

Amount Added: 1.00

Units: uL

GAS CORP mix_00226

Amount Added: 1.00

Units: uL

N_8260_Surr_00273

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00075

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20170626-63590.b\\N9068.D

Injection Date: 26-Jun-2017 15:45:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

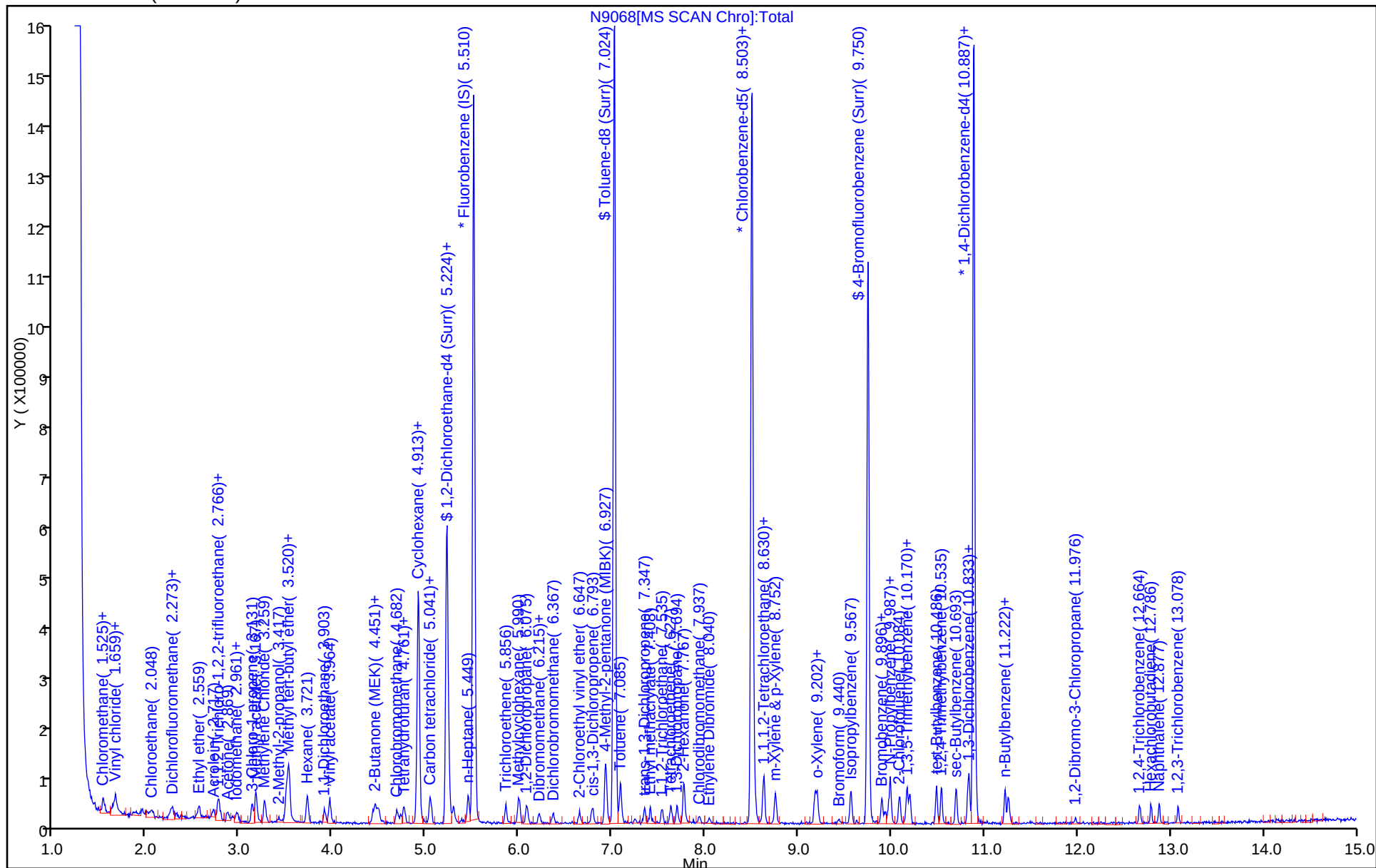
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

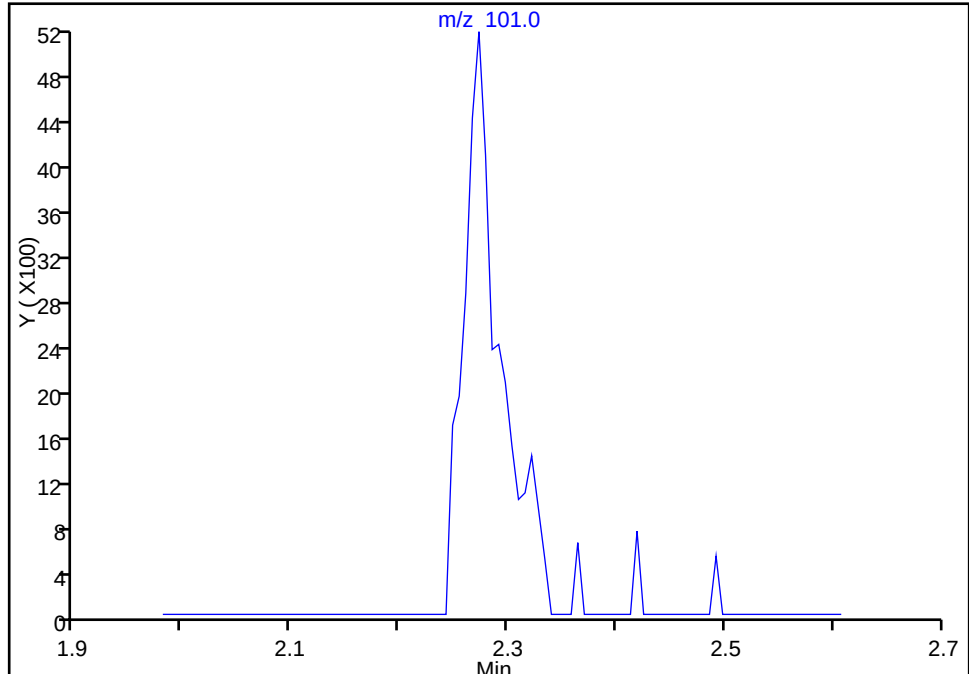
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Injection Date: 26-Jun-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

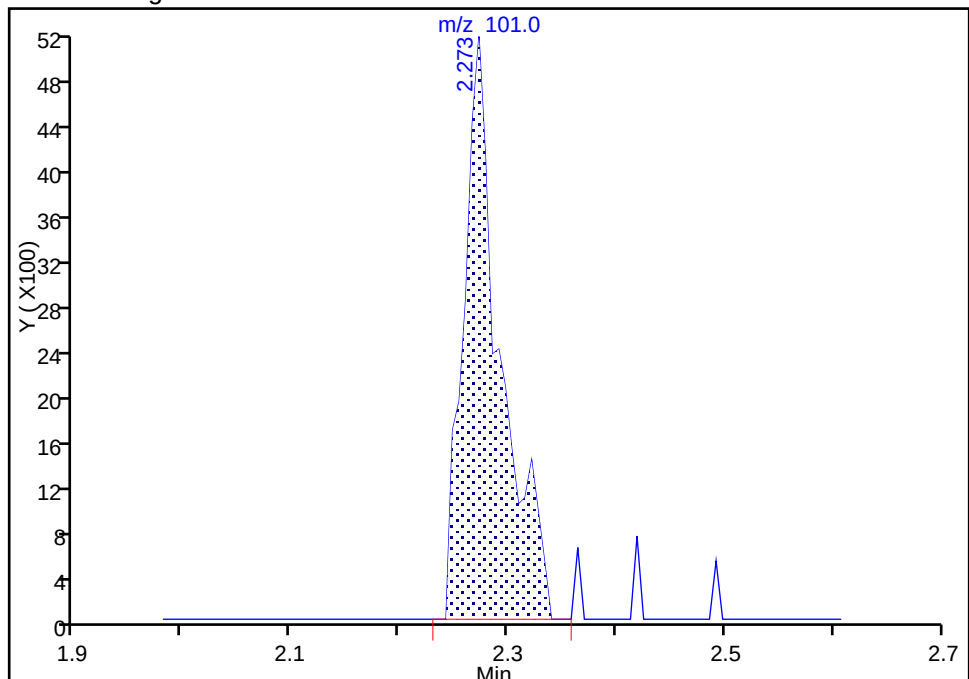
Not Detected
Expected RT: 2.27

Processing Integration Results



RT: 2.27
Area: 12230
Amount: 0.902700
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:35:31
Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

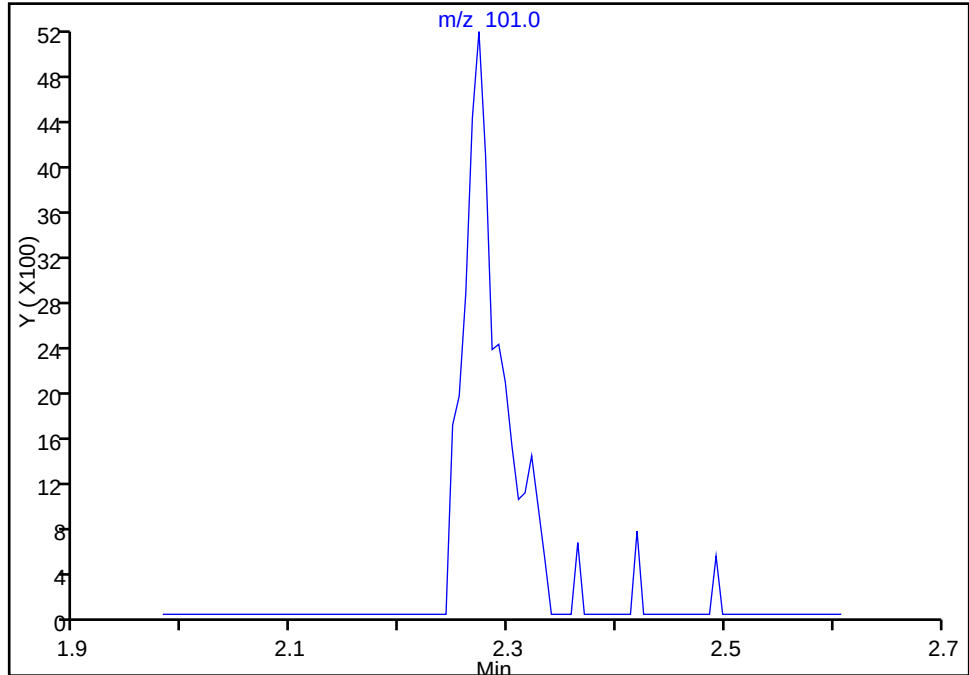
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Injection Date: 26-Jun-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

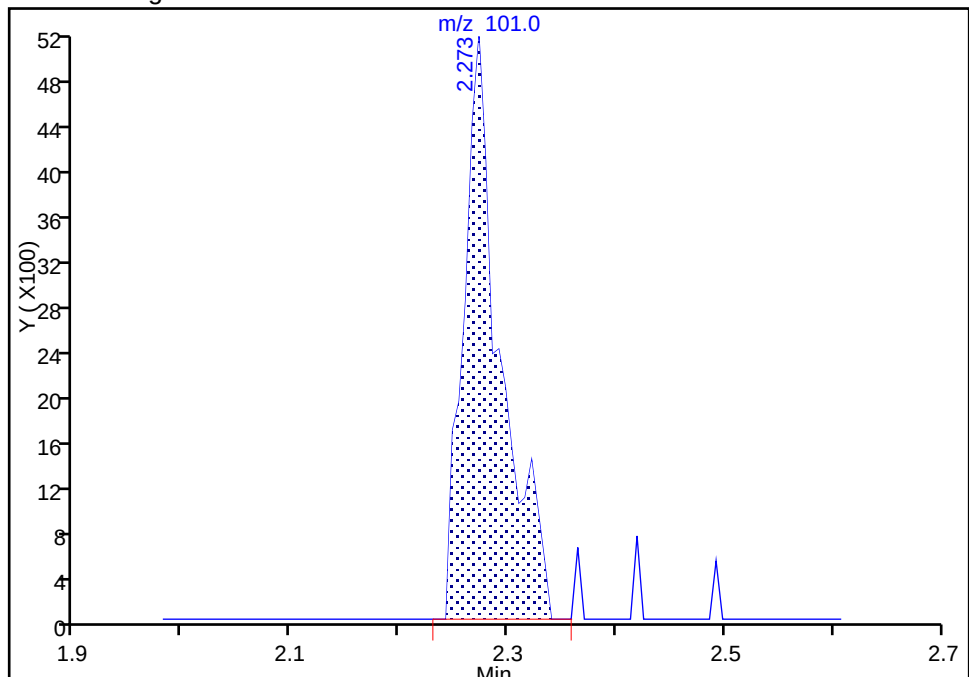
Not Detected
Expected RT: 2.27

Processing Integration Results



RT: 2.27
Area: 12230
Amount: 0.902700
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:35:42

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9068.D

Injection Date: 26-Jun-2017 15:45:30

Instrument ID: HP5973N

Lims ID: IC

Client ID:

Operator ID: LH

ALS Bottle#:

13

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

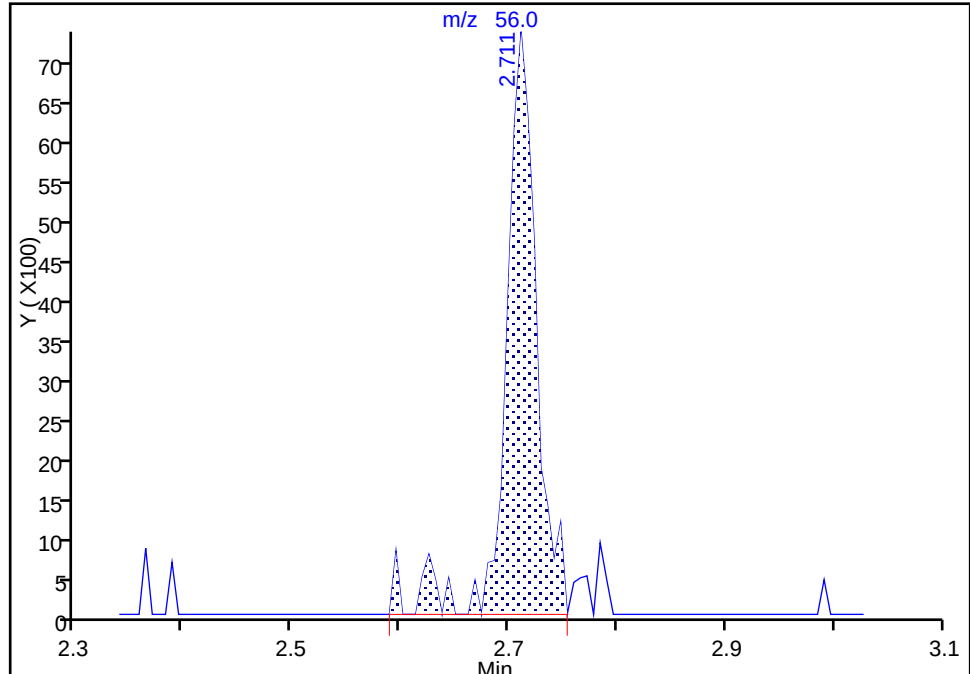
MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

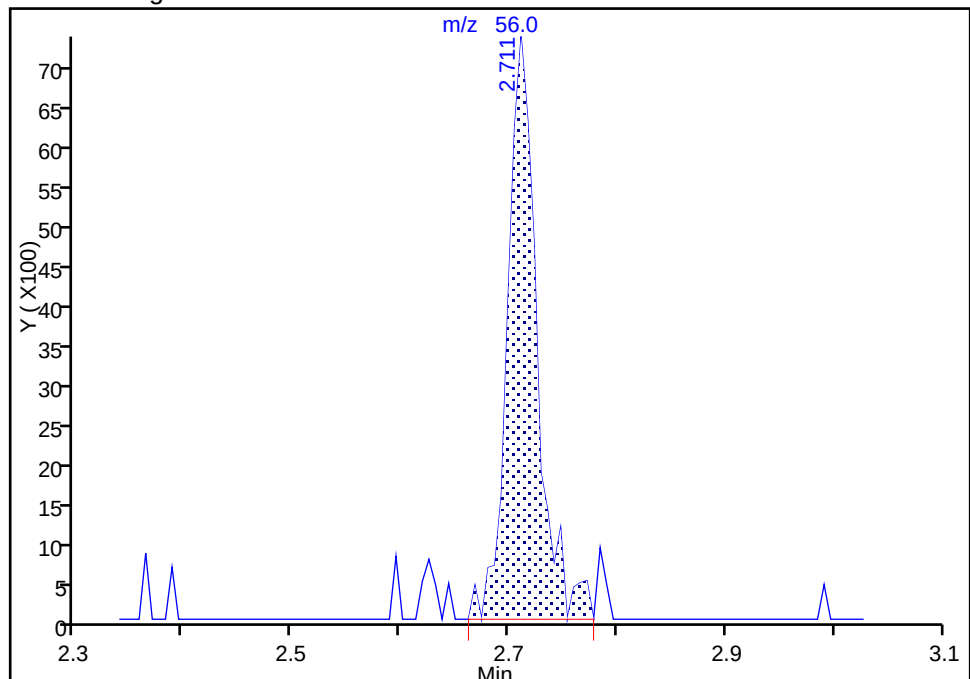
RT: 2.71
Area: 14481
Amount: 4.150344
Amount Units: ug/L

Processing Integration Results



RT: 2.71
Area: 13914
Amount: 4.165318
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:35:55

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

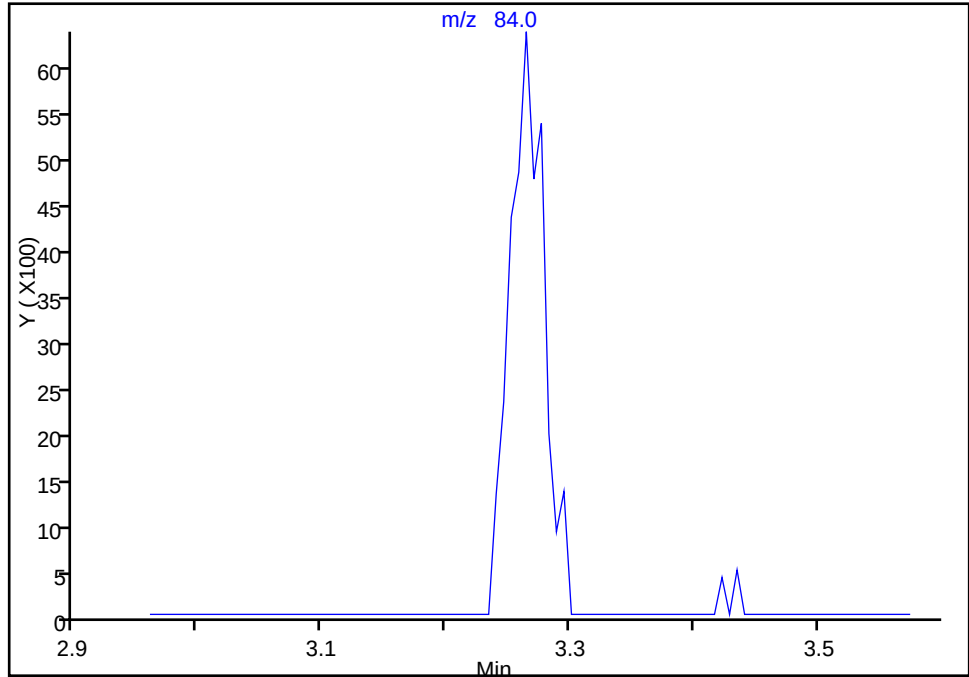
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Injection Date: 26-Jun-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

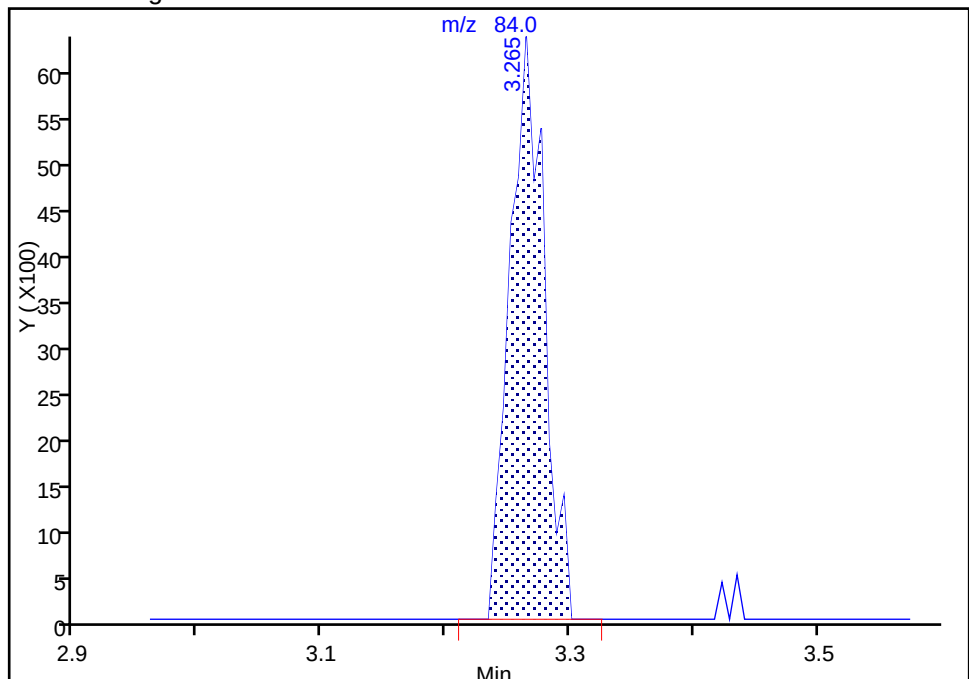
Not Detected
Expected RT: 3.26

Processing Integration Results



RT: 3.26
Area: 12210
Amount: 1.106541
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:36:06
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography
Page 245 of 422

07/03/2017

TestAmerica Buffalo

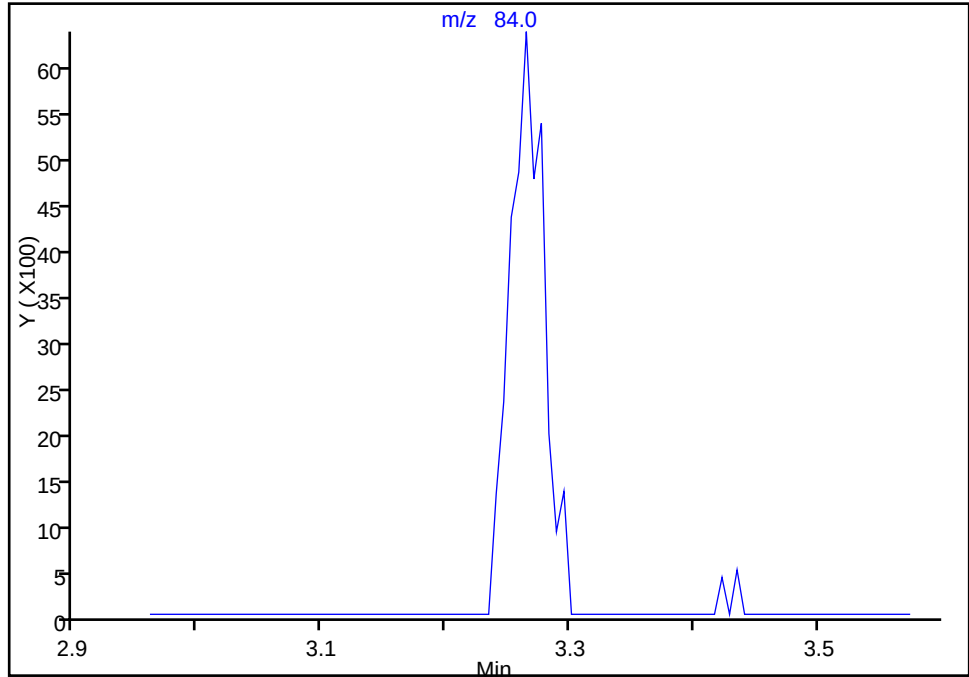
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Injection Date: 26-Jun-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

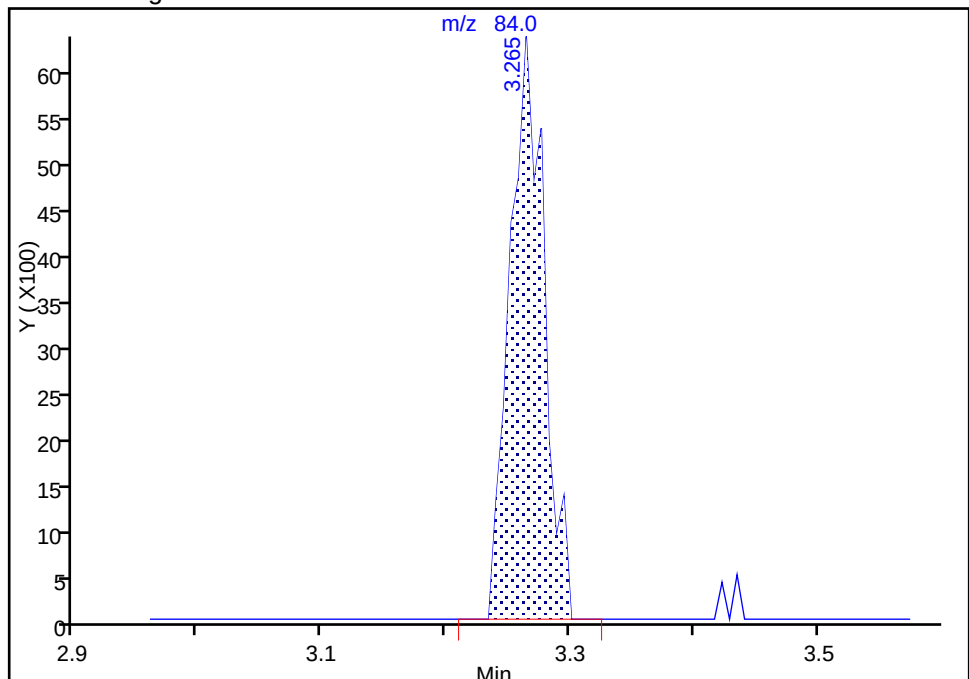
Signal: 1

Not Detected
Expected RT: 3.26

Processing Integration Results



Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:36:13

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

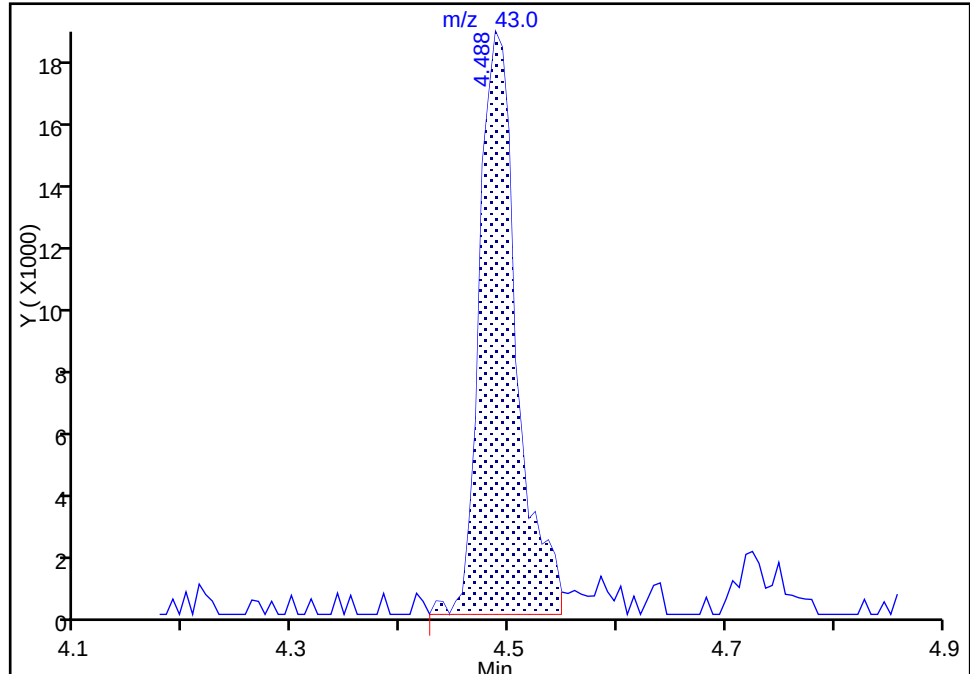
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Injection Date: 26-Jun-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

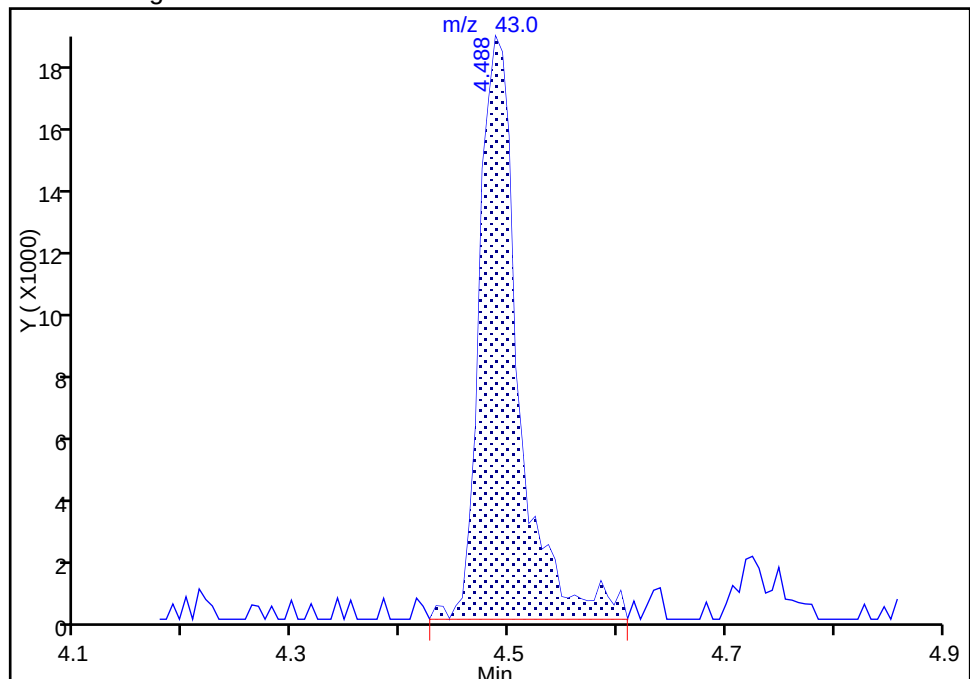
RT: 4.49
Area: 44289
Amount: 4.331157
Amount Units: ug/L

Processing Integration Results



RT: 4.49
Area: 46660
Amount: 4.536727
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:36:57

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

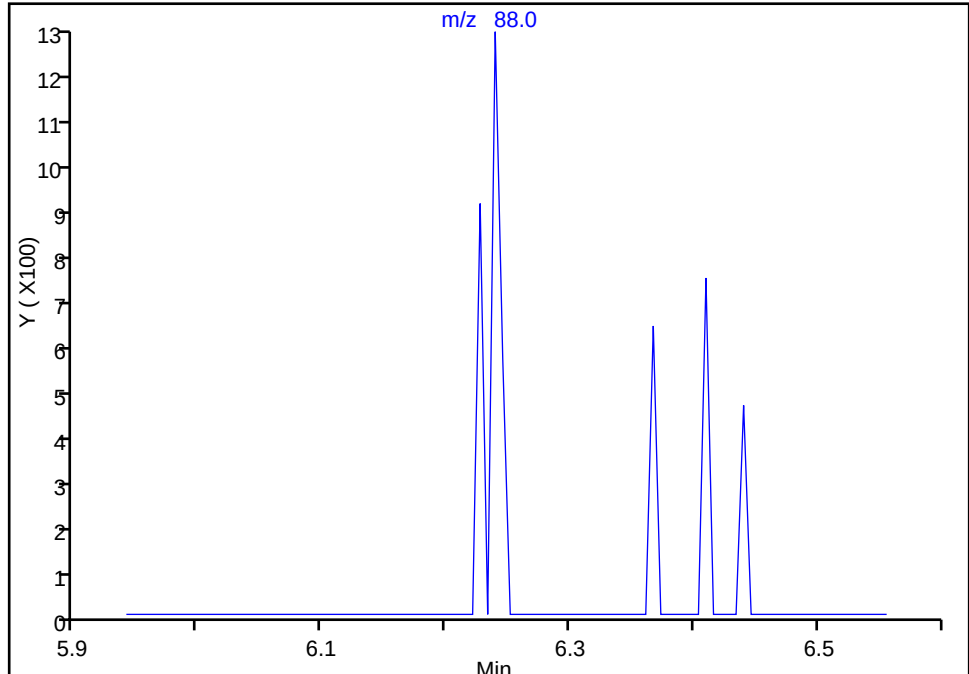
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Injection Date: 26-Jun-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

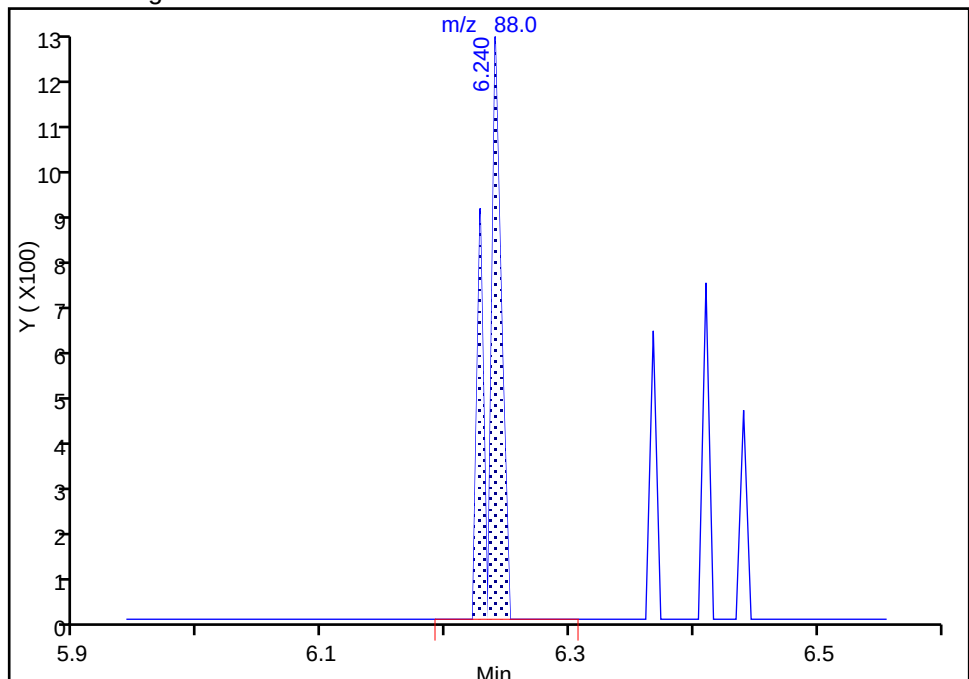
Not Detected
Expected RT: 6.23

Processing Integration Results



RT: 6.24
Area: 1017
Amount: 10.572531
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:37:28
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

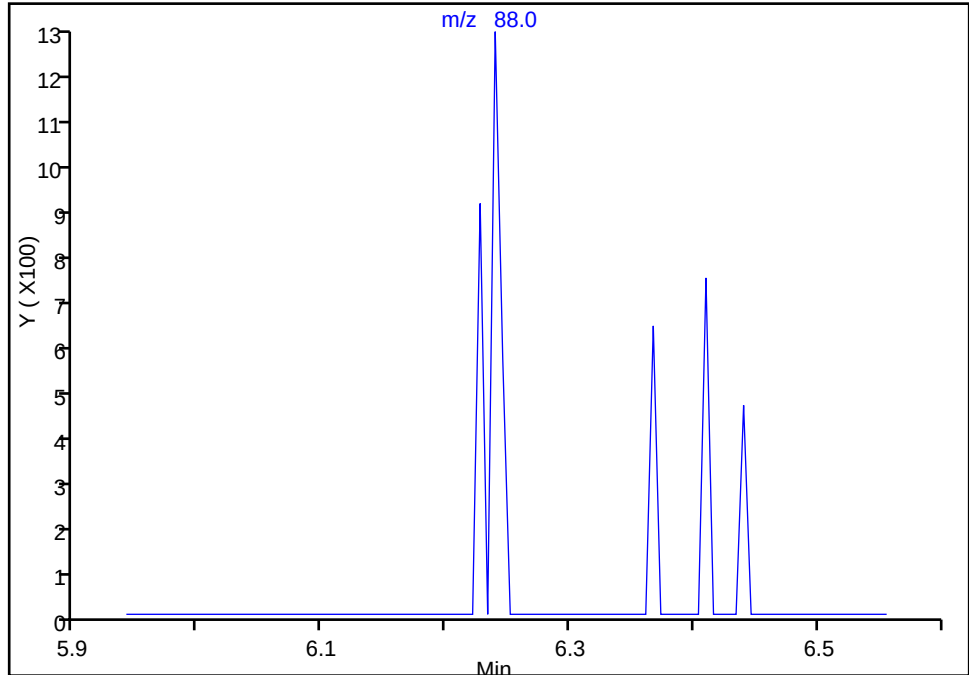
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Injection Date: 26-Jun-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

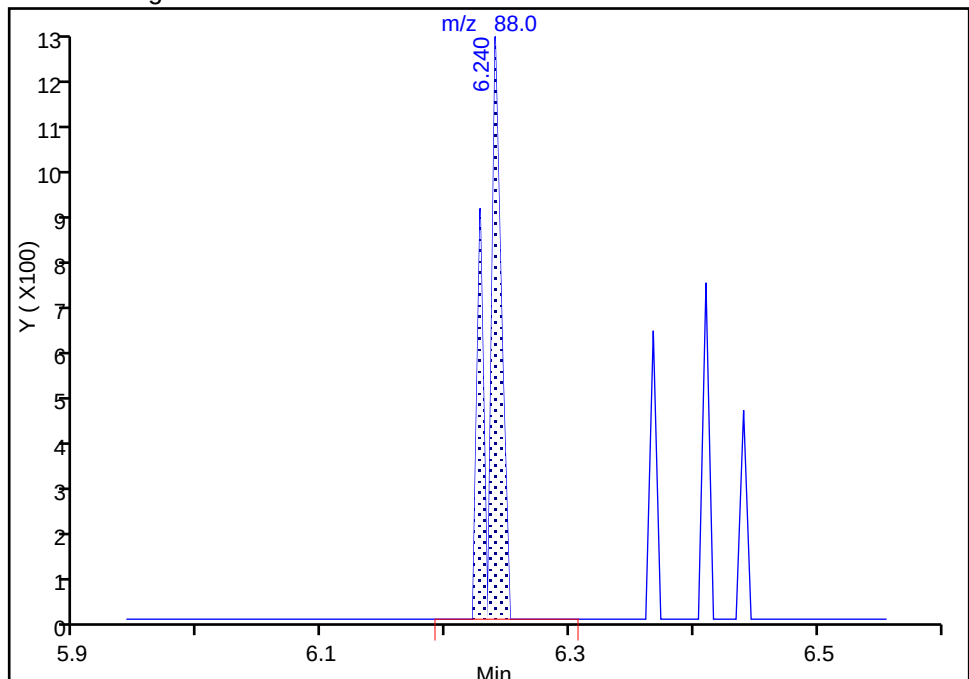
Signal: 1

Not Detected
Expected RT: 6.23

Processing Integration Results



Manual Integration Results



RT: 6.24
Area: 1017
Amount: 10.572531
Amount Units: ug/L

Reviewer: sonkera, 27-Jun-2017 00:37:34

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

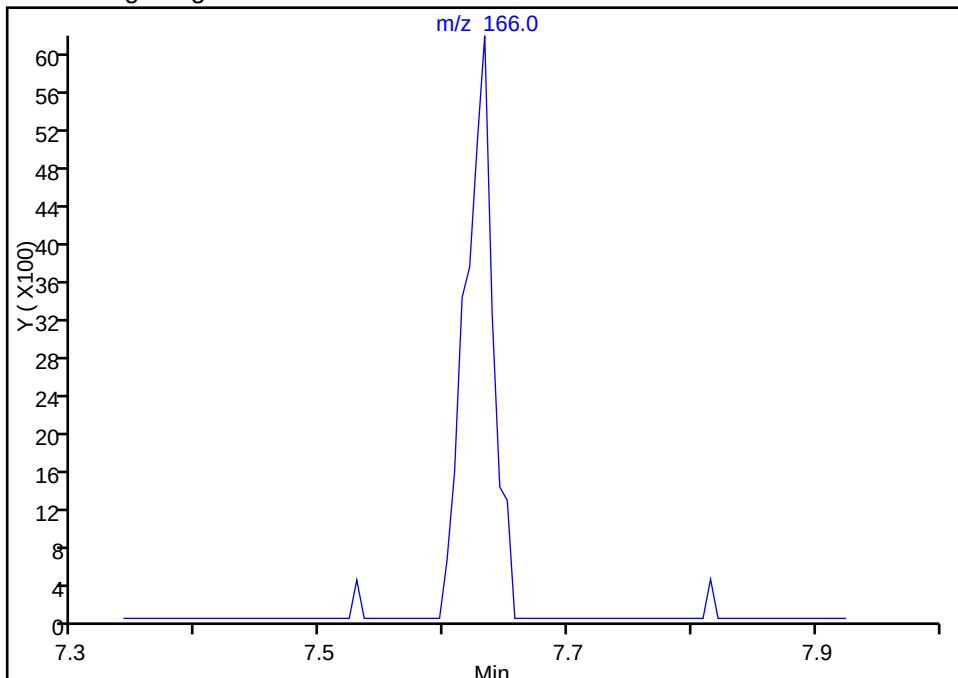
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Injection Date: 26-Jun-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

79 Tetrachloroethene, CAS: 127-18-4

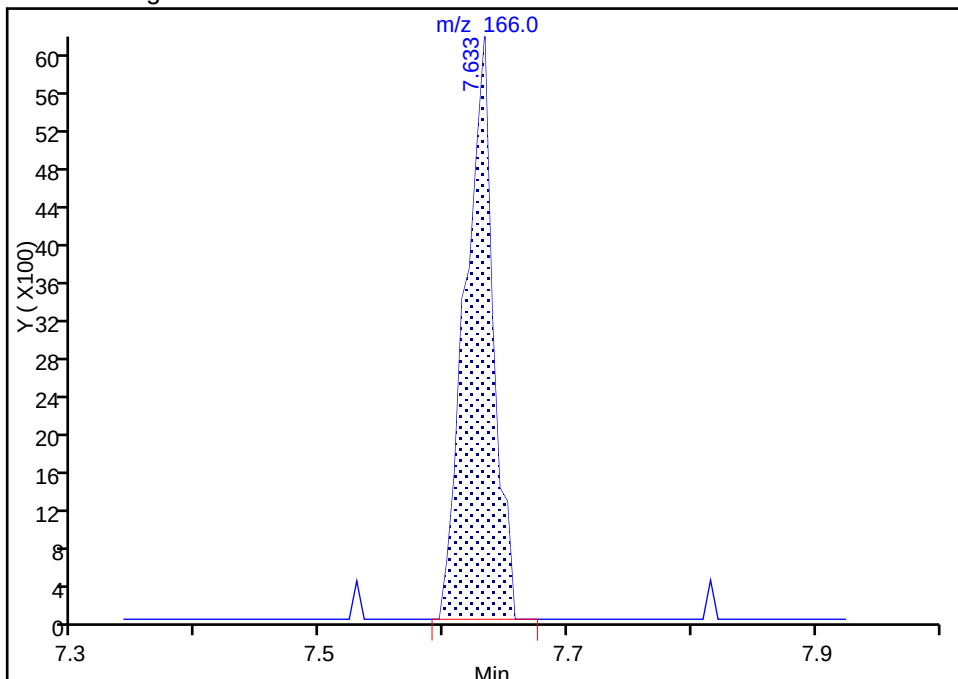
Signal: 1

Not Detected
Expected RT: 7.63

Processing Integration Results



Manual Integration Results



RT: 7.63
Area: 9566
Amount: 0.894205
Amount Units: ug/L

Reviewer: sonkera, 27-Jun-2017 00:37:48

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

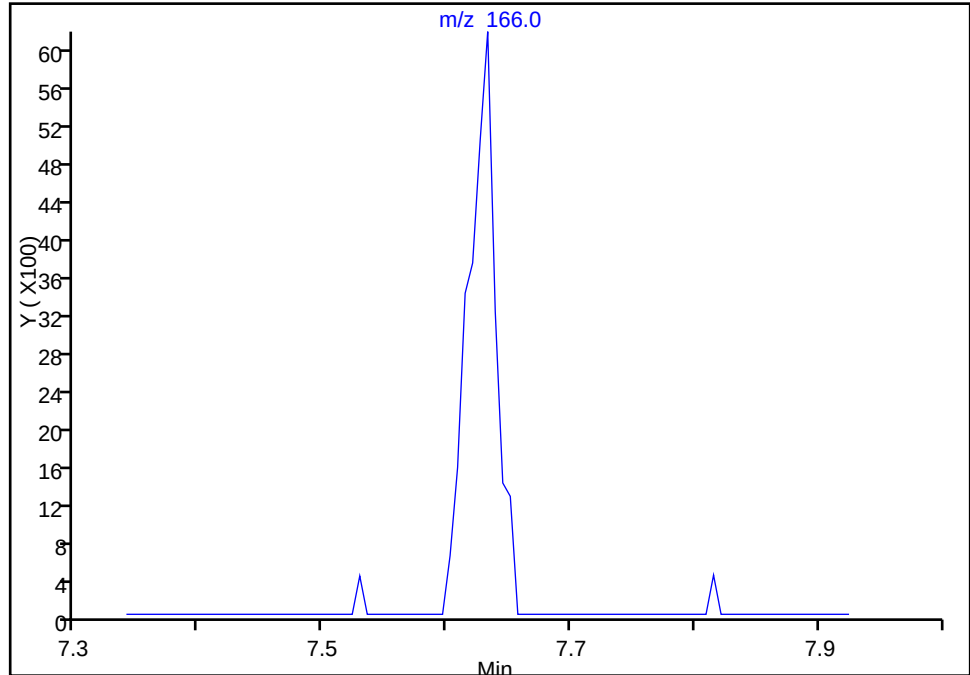
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Injection Date: 26-Jun-2017 15:45:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 13 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

79 Tetrachloroethene, CAS: 127-18-4

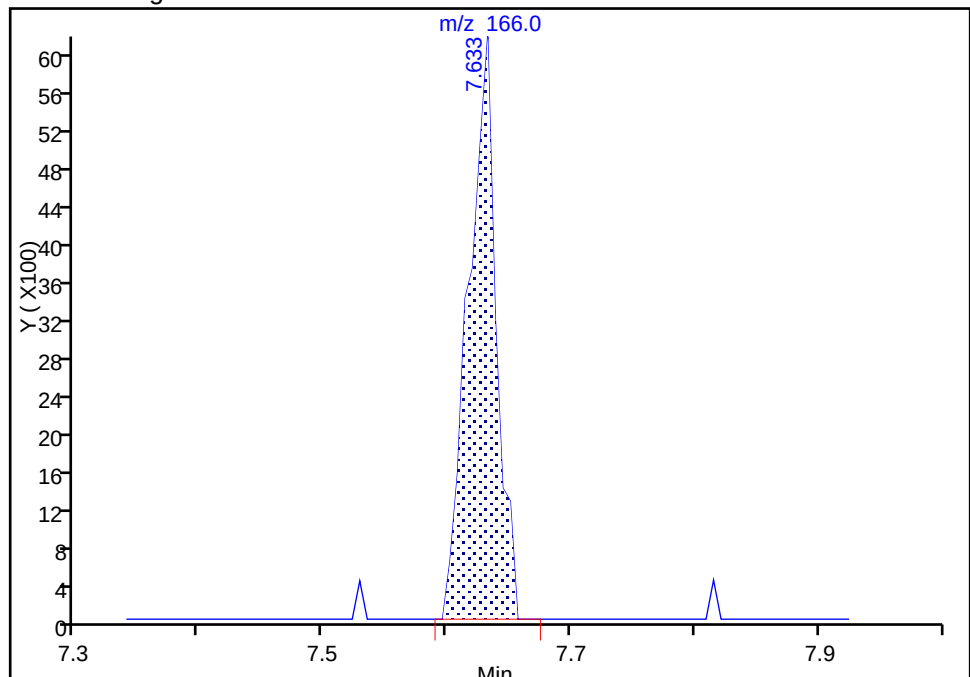
Signal: 1

Not Detected
Expected RT: 7.63

Processing Integration Results



Manual Integration Results



RT: 7.63
Area: 9566
Amount: 0.894205
Amount Units: ug/L

Reviewer: sonkera, 27-Jun-2017 00:37:51

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9069.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 26-Jun-2017 16:12:30 ALS Bottle#: 14 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0063590-008
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 10:18:08 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK042

First Level Reviewer: sonkera

Date: 26-Jun-2017 22:20:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.510	5.510	0.000	97	201954	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.503	8.503	0.000	92	703240	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.887	10.888	-0.001	95	359927	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.913	4.913	0.000	94	218465	25.0	24.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.218	5.218	0.000	0	333099	25.0	25.2	
\$ 6 Toluene-d8 (Surr)	98	7.018	7.018	0.000	95	872326	25.0	25.7	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	88	295009	25.0	26.1	
11 Dichlorodifluoromethane	85	1.367	1.367	0.000	96	20331	2.00	2.02	
13 Chloromethane	50	1.525	1.525	0.000	97	45494	2.00	1.97	
14 Vinyl chloride	62	1.628	1.634	-0.006	97	32304	2.00	2.03	
144 Butadiene	54	1.659	1.659	0.000	89	40182	2.00	2.09	
15 Bromomethane	94	1.945	1.945	0.000	86	9345	2.00	2.08	
16 Chloroethane	64	2.042	2.042	0.000	93	13636	2.00	2.14	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	92	31370	2.00	2.05	
18 Trichlorofluoromethane	101	2.261	2.267	-0.006	95	27353	2.00	2.04	
19 Ethyl ether	59	2.553	2.553	0.000	92	36162	2.00	2.29	
20 Acrolein	56	2.705	2.711	-0.006	99	38066	10.0	11.5	
22 1,1-Dichloroethene	96	2.766	2.766	0.000	89	20733	2.00	2.44	
21 1,1,2-Trichloro-1,2,2-trif	101	2.760	2.766	-0.006	51	15982	2.00	1.95	
23 Acetone	43	2.863	2.863	0.000	97	78756	10.0	12.1	
24 Iodomethane	142	2.918	2.918	0.000	100	31967	2.00	2.27	
25 Carbon disulfide	76	2.961	2.967	-0.006	98	63395	2.00	2.17	
27 3-Chloro-1-propene	41	3.125	3.131	-0.006	85	70191	2.00	2.13	
28 Methyl acetate	43	3.167	3.167	0.000	99	176717	10.0	10.2	
30 Methylene Chloride	84	3.259	3.259	0.000	73	26106	2.00	2.39	
31 2-Methyl-2-propanol	59	3.417	3.417	0.000	82	28976	20.0	21.9	M
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	90	69164	2.00	2.17	
33 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	87	20578	2.00	2.10	
34 Acrylonitrile	53	3.520	3.520	0.000	98	184962	20.0	20.9	
35 Hexane	57	3.721	3.721	0.000	87	52806	2.00	2.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.910	3.910	0.000	95	53607	2.00	2.24	
39 Vinyl acetate	43	3.958	3.958	0.000	97	153474	4.00	3.92	
42 2,2-Dichloropropane	77	4.427	4.427	0.000	82	26013	2.00	2.44	
43 cis-1,2-Dichloroethene	96	4.457	4.451	0.006	90	23362	2.00	2.15	
44 2-Butanone (MEK)	43	4.481	4.482	-0.001	96	107116	10.0	10.5	
47 Chlorobromomethane	128	4.688	4.682	0.006	83	11395	2.00	2.15	
49 Tetrahydrofuran	42	4.719	4.719	0.000	94	33765	4.00	4.67	
50 Chloroform	83	4.761	4.761	0.000	91	38052	2.00	2.14	
51 1,1,1-Trichloroethane	97	4.889	4.895	-0.006	88	27397	2.00	2.00	
52 Cyclohexane	56	4.919	4.920	-0.001	46	68417	2.00	2.48	
53 Carbon tetrachloride	117	5.035	5.041	-0.006	78	27352	2.00	2.22	
54 1,1-Dichloropropene	75	5.041	5.047	-0.006	78	29225	2.00	2.20	
56 Isobutyl alcohol	43	5.230	5.230	0.000	47	44406	50.0	51.9	M
55 Benzene	78	5.242	5.242	0.000	92	84998	2.00	2.10	
57 1,2-Dichloroethane	62	5.284	5.291	-0.007	93	44731	2.00	2.22	
59 n-Heptane	43	5.449	5.449	0.000	92	65757	2.00	2.27	M
60 Trichloroethene	95	5.856	5.856	0.000	90	20564	2.00	2.05	
62 Methylcyclohexane	83	5.990	5.996	-0.006	90	37100	2.00	2.31	
63 1,2-Dichloropropane	63	6.075	6.082	-0.007	90	29652	2.00	2.21	
64 Dibromomethane	93	6.215	6.209	0.006	89	13876	2.00	2.13	
66 1,4-Dioxane	88	6.221	6.228	-0.007	28	3269	40.0	34.8	M
67 Dichlorobromomethane	83	6.361	6.361	0.000	95	24732	2.00	2.01	
69 2-Chloroethyl vinyl ether	63	6.647	6.647	0.000	80	17018	2.00	1.92	
71 cis-1,3-Dichloropropene	75	6.787	6.787	0.000	85	32159	2.00	2.13	
72 4-Methyl-2-pentanone (MIBK)	58	6.927	6.927	0.000	98	69071	10.0	9.70	
73 Toluene	92	7.085	7.085	0.000	97	54330	2.00	2.20	
75 trans-1,3-Dichloropropene	75	7.347	7.347	0.000	91	24992	2.00	1.87	
77 Ethyl methacrylate	69	7.408	7.408	0.000	89	23444	2.00	1.98	
78 1,1,2-Trichloroethane	83	7.529	7.535	-0.006	93	13641	2.00	1.99	
79 Tetrachloroethene	166	7.633	7.627	0.006	91	24788	2.00	2.38	
80 1,3-Dichloropropane	76	7.700	7.700	0.000	85	28021	2.00	1.90	
82 2-Hexanone	43	7.767	7.767	0.000	98	138834	10.0	10.2	
83 Chlorodibromomethane	129	7.937	7.937	0.000	91	15792	2.00	1.80	
84 Ethylene Dibromide	107	8.040	8.040	0.000	90	16977	2.00	1.97	
85 Chlorobenzene	112	8.533	8.527	0.006	89	57643	2.00	2.15	
89 1,1,1,2-Tetrachloroethane	131	8.618	8.624	-0.006	80	20504	2.00	2.26	
88 Ethylbenzene	91	8.630	8.631	-0.001	98	100300	2.00	2.23	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	36895	2.00	2.14	
91 o-Xylene	106	9.178	9.178	0.000	96	37986	2.00	2.20	
92 Styrene	104	9.202	9.202	0.000	95	61837	2.00	2.15	
93 Bromoform	173	9.433	9.440	-0.007	95	11003	2.00	1.92	
95 Isopropylbenzene	105	9.561	9.561	0.000	97	97005	2.00	2.04	
97 Bromobenzene	156	9.896	9.896	0.000	90	23680	2.00	1.98	
98 1,1,2,2-Tetrachloroethane	83	9.932	9.932	0.000	91	24400	2.00	1.96	
99 1,2,3-Trichloropropane	110	9.963	9.969	-0.006	91	9081	2.00	2.36	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	63	9720	2.00	1.79	
100 N-Propylbenzene	91	9.987	9.987	0.000	99	110441	2.00	2.03	
102 2-Chlorotoluene	126	10.084	10.085	0.000	95	21251	2.00	1.94	
104 1,3,5-Trimethylbenzene	105	10.170	10.170	0.000	76	77901	2.00	1.99	
105 4-Chlorotoluene	91	10.200	10.194	0.006	98	78089	2.00	2.10	
106 tert-Butylbenzene	134	10.480	10.486	-0.006	96	15999	2.00	1.87	
108 1,2,4-Trimethylbenzene	105	10.535	10.535	0.000	97	84240	2.00	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.699	10.693	0.006	95	102766	2.00	2.11	
110 1,3-Dichlorobenzene	146	10.821	10.821	0.000	96	46927	2.00	2.09	
111 4-Isopropyltoluene	119	10.833	10.833	0.000	95	85279	2.00	2.07	
113 1,4-Dichlorobenzene	146	10.912	10.906	0.006	26	49598	2.00	2.11	
115 n-Butylbenzene	91	11.222	11.216	0.006	97	80493	2.00	2.24	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	90	43102	2.00	2.00	
117 1,2-Dibromo-3-Chloropropan	75	11.976	11.977	0.000	64	3866	2.00	1.84	
119 1,2,4-Trichlorobenzene	180	12.670	12.664	0.006	91	27763	2.00	2.20	
120 Hexachlorobutadiene	225	12.786	12.792	-0.006	90	12295	2.00	2.05	
121 Naphthalene	128	12.877	12.877	0.000	85	55076	2.00	1.78	
122 1,2,3-Trichlorobenzene	180	13.078	13.084	-0.006	94	22003	2.00	2.06	
S 125 Total BTEX	1				0			10.9	
S 126 Xylenes, Total	1				0			4.34	
S 123 1,3-Dichloropropene, Total	1				0			4.00	
S 124 1,2-Dichloroethene, Total	1				0			4.25	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00101

Amount Added: 2.00

Units: uL

GAS CORP mix_00226

Amount Added: 2.00

Units: uL

N_8260_Surr_00273

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00075

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20170626-63590.b\\N9069.D

Injection Date: 26-Jun-2017 16:12:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 2

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

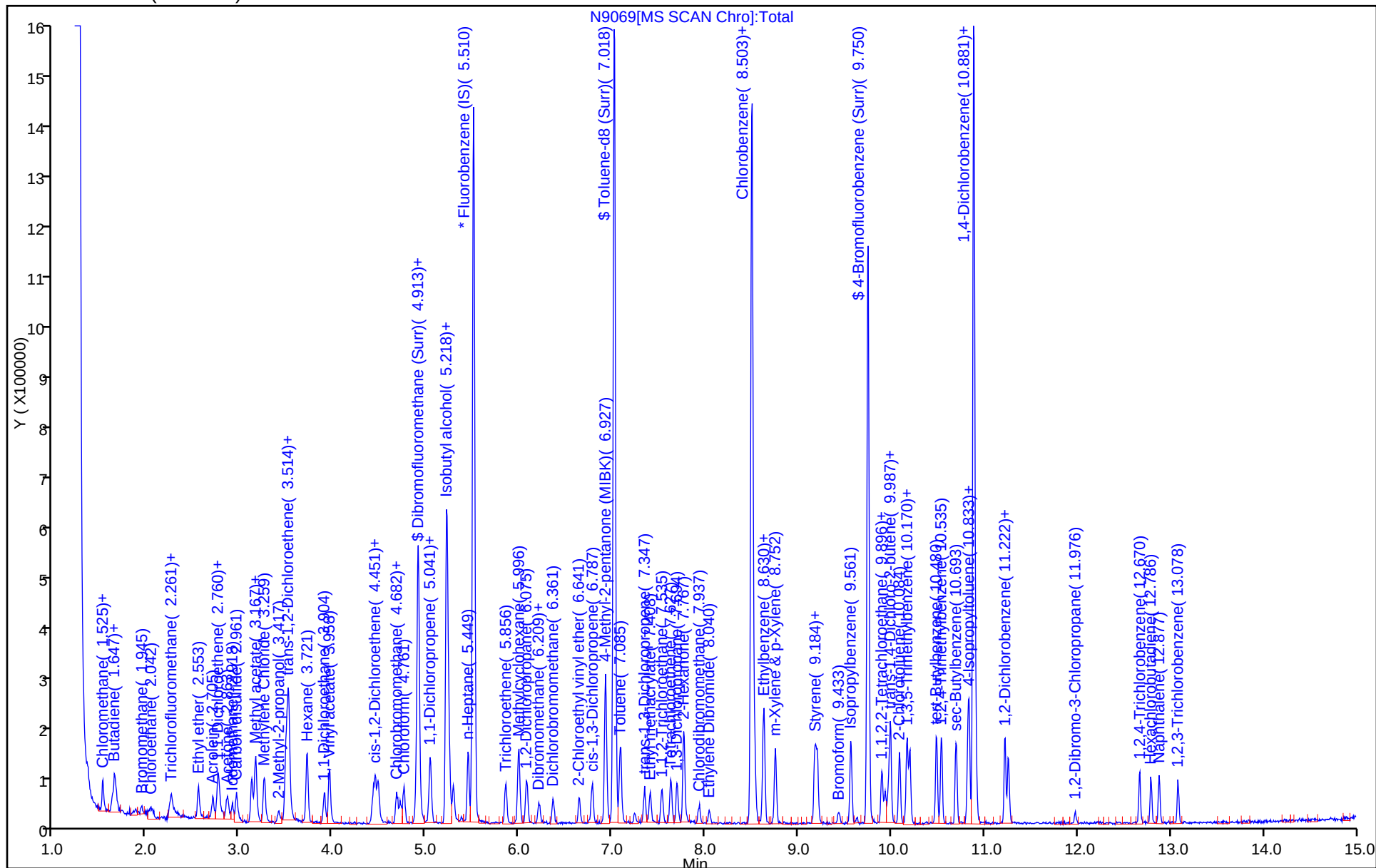
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9069.D

Injection Date: 26-Jun-2017 16:12:30

Instrument ID: HP5973N

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#: 14

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

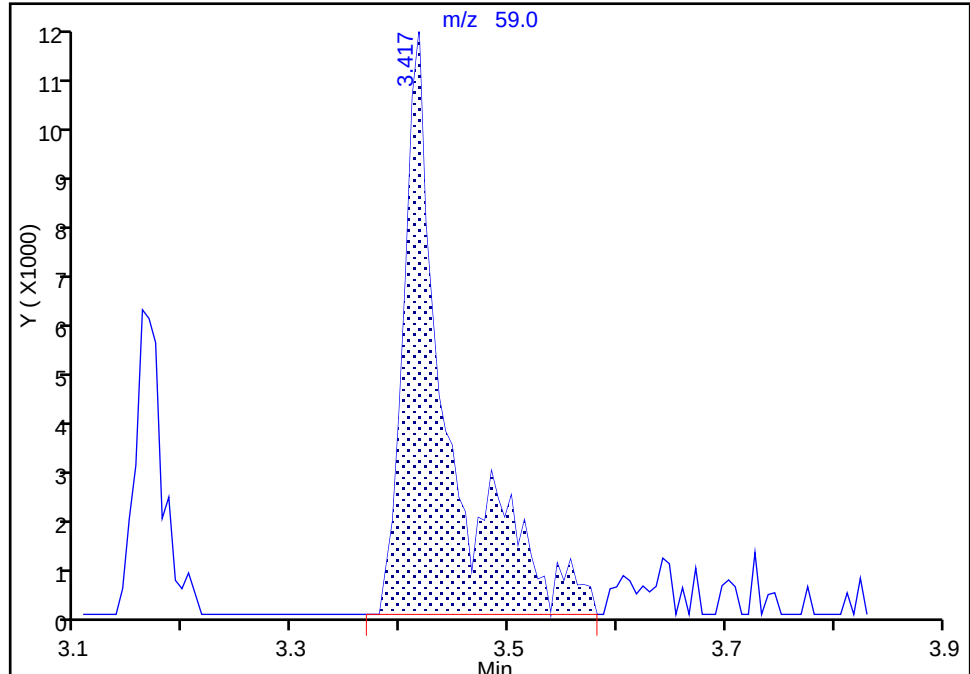
Detector: MS SCAN

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

Signal: 1

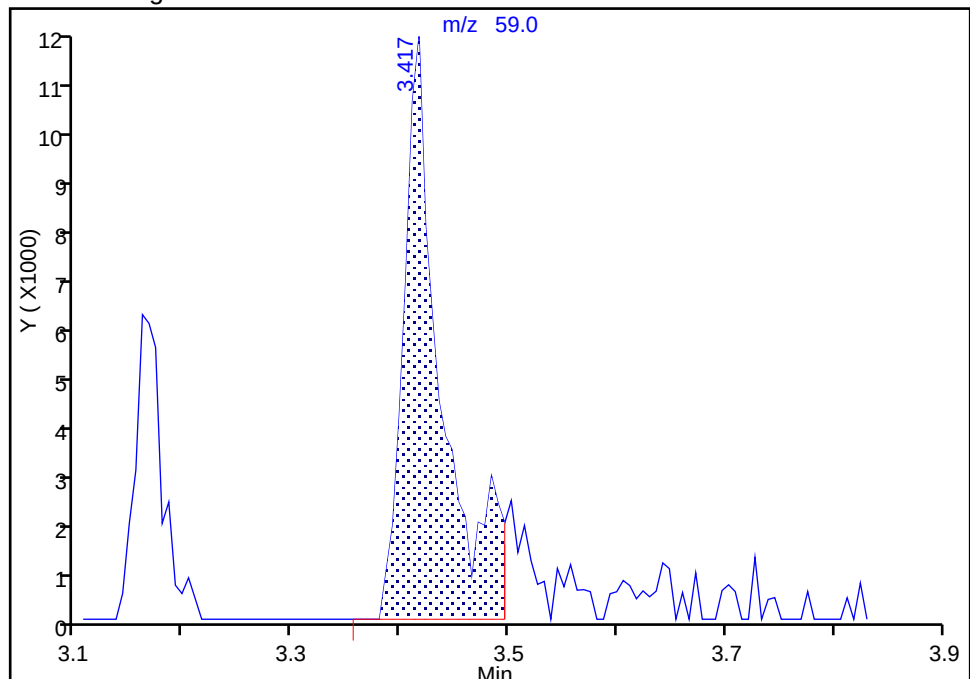
RT: 3.42
Area: 33741
Amount: 21.381793
Amount Units: ug/L

Processing Integration Results



RT: 3.42
Area: 28976
Amount: 21.878546
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:41:36

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9069.D

Injection Date: 26-Jun-2017 16:12:30

Instrument ID: HP5973N

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#:

14

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

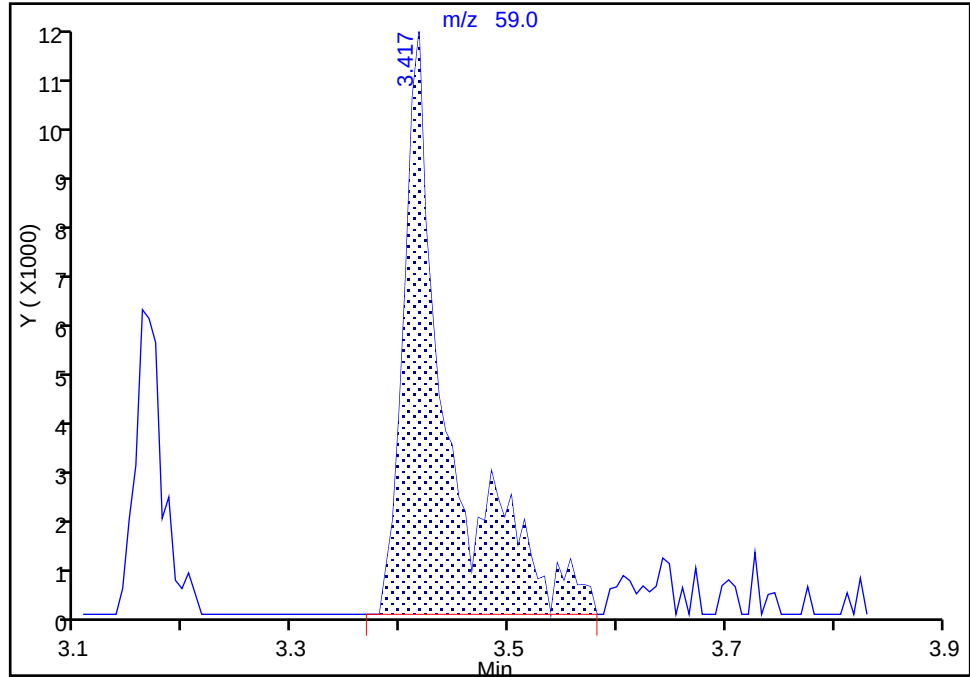
MS SCAN

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

Signal: 1

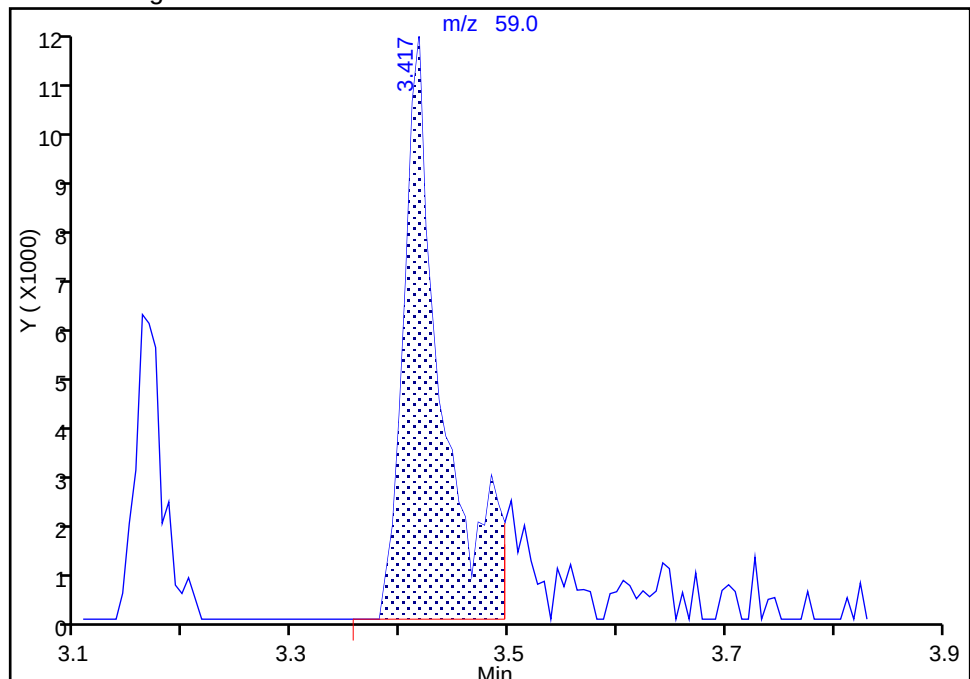
RT: 3.42
Area: 33741
Amount: 21.381793
Amount Units: ug/L

Processing Integration Results



RT: 3.42
Area: 28976
Amount: 21.878546
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:41:49

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

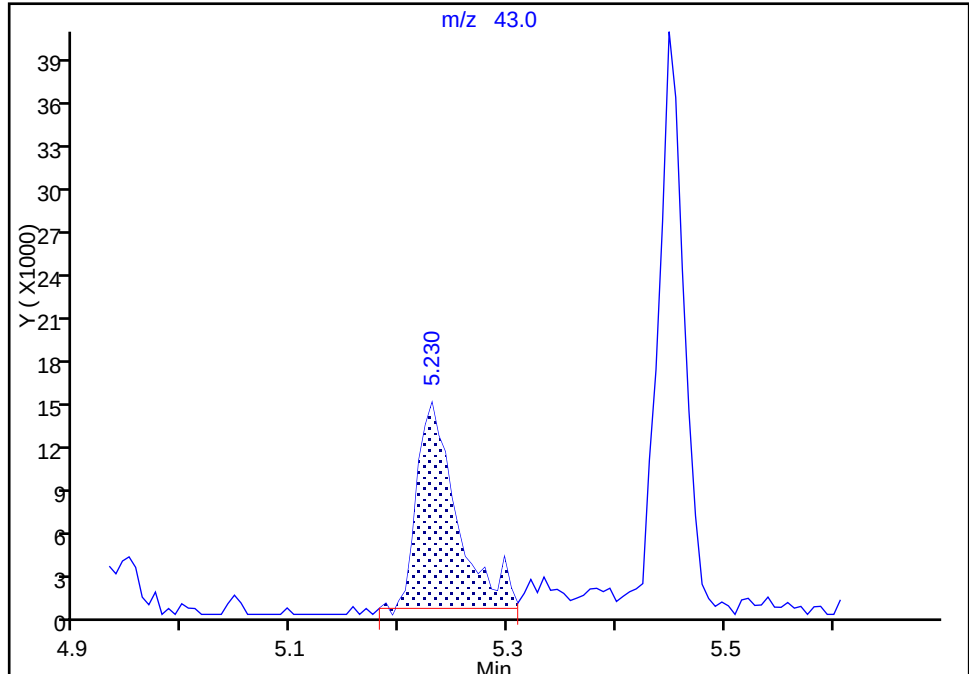
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Injection Date: 26-Jun-2017 16:12:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 14 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

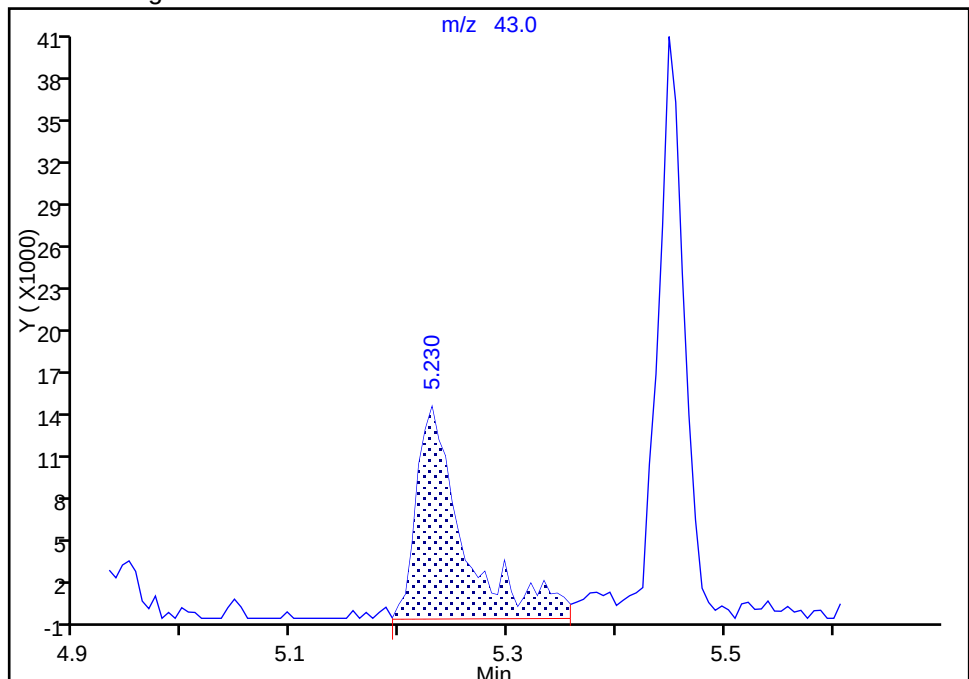
RT: 5.23
Area: 36115
Amount: 43.607989
Amount Units: ug/L

Processing Integration Results



RT: 5.23
Area: 44406
Amount: 51.935836
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 27-Jun-2017 09:16:18
Audit Action: Manually Integrated

Audit Reason: Peak Tail
Page 258 of 422

07/03/2017

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9069.D

Injection Date: 26-Jun-2017 16:12:30

Instrument ID: HP5973N

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#:

14

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

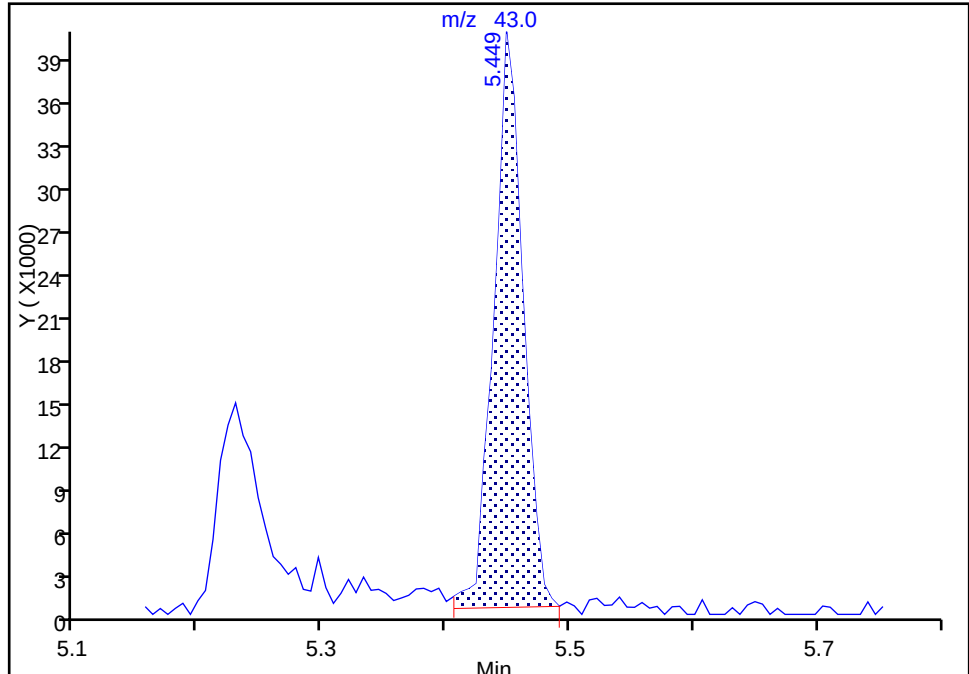
MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

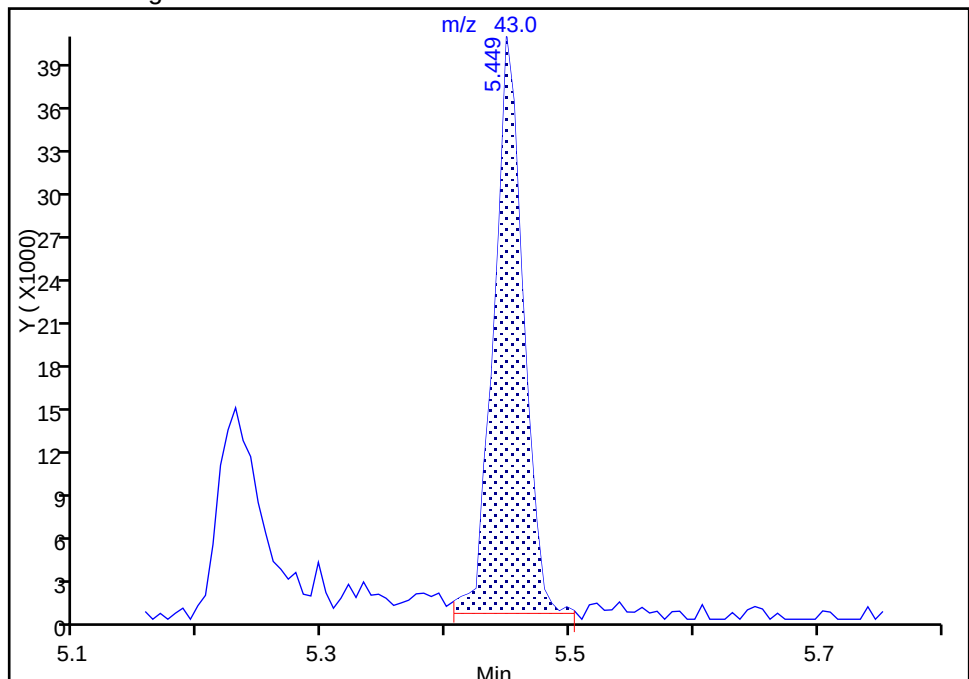
RT: 5.45
Area: 65125
Amount: 2.258962
Amount Units: ug/L

Processing Integration Results



RT: 5.45
Area: 65757
Amount: 2.272041
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:44:46

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9069.D

Injection Date: 26-Jun-2017 16:12:30

Instrument ID: HP5973N

Lims ID: IC 2

Client ID:

Operator ID: LH

ALS Bottle#:

14

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

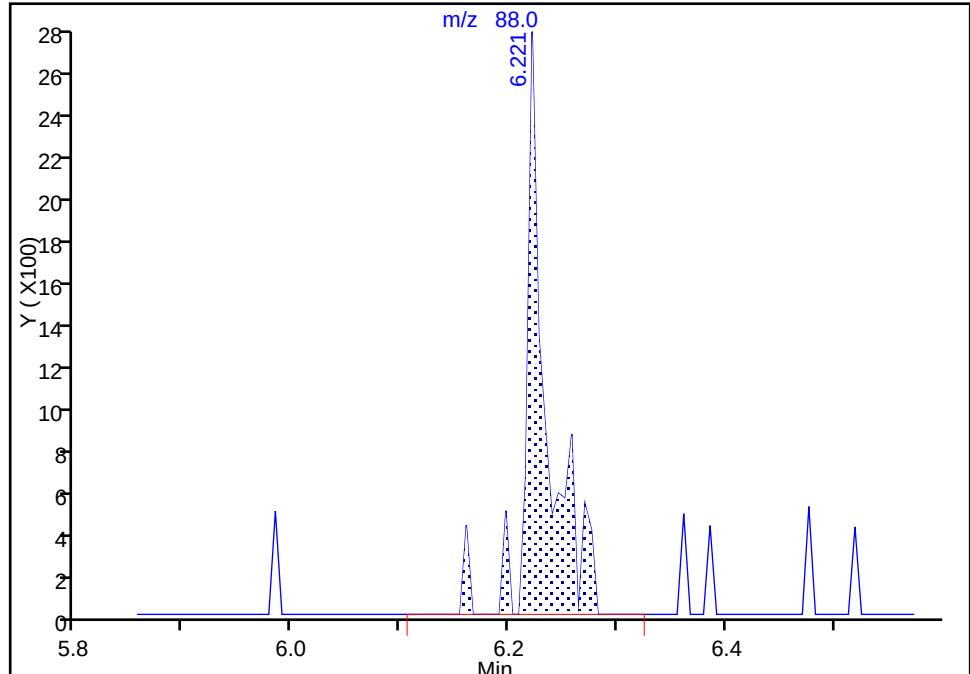
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

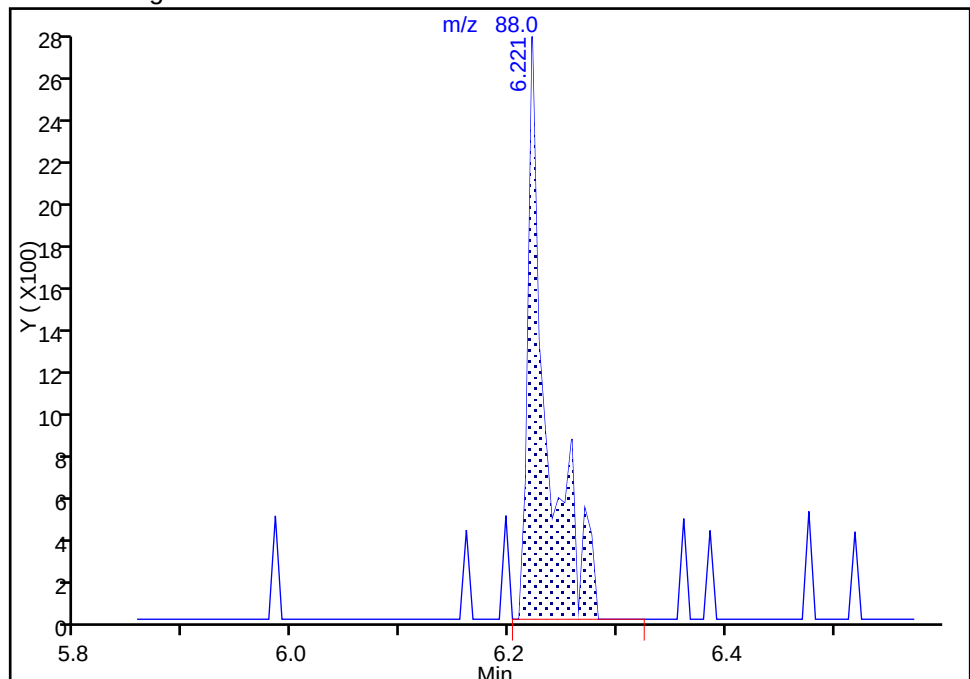
RT: 6.22
Area: 3601
Amount: 45.080320
Amount Units: ug/L

Processing Integration Results



RT: 6.22
Area: 3269
Amount: 34.838839
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 27-Jun-2017 09:16:49

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9070.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 26-Jun-2017 16:40:30 ALS Bottle#: 15 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0063590-009
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 10:18:15 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK042

First Level Reviewer: sonkera

Date: 26-Jun-2017 22:20:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.510	5.510	0.000	97	209950	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.497	8.497	0.000	92	755166	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.887	10.887	0.000	94	373879	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.913	4.913	0.000	94	217488	25.0	23.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.218	5.218	0.000	0	343275	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	7.018	7.018	0.000	95	895684	25.0	24.6	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	88	306365	25.0	25.3	
11 Dichlorodifluoromethane	85	1.367	1.367	0.000	96	58737	5.00	5.62	
13 Chloromethane	50	1.525	1.525	0.000	100	127882	5.00	5.34	
14 Vinyl chloride	62	1.628	1.628	0.000	96	89924	5.00	5.45	
144 Butadiene	54	1.653	1.653	0.000	90	114558	5.00	5.73	
15 Bromomethane	94	1.945	1.945	0.000	91	22271	5.00	4.77	
16 Chloroethane	64	2.048	2.048	0.000	95	33011	5.00	4.99	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	97	80896	5.00	5.10	
18 Trichlorofluoromethane	101	2.267	2.267	0.000	86	73953	5.00	5.31	
19 Ethyl ether	59	2.553	2.553	0.000	93	82382	5.00	5.01	
20 Acrolein	56	2.711	2.711	0.000	98	89044	25.0	25.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	51	48124	5.00	5.64	
22 1,1-Dichloroethene	96	2.766	2.766	0.000	88	46652	5.00	5.28	
23 Acetone	43	2.863	2.863	0.000	98	169683	25.0	25.0	
24 Iodomethane	142	2.912	2.912	0.000	99	72437	5.00	4.94	
25 Carbon disulfide	76	2.961	2.961	0.000	98	155545	5.00	5.11	
27 3-Chloro-1-propene	41	3.125	3.125	0.000	85	173759	5.00	5.08	
28 Methyl acetate	43	3.167	3.167	0.000	99	454139	25.0	25.2	
30 Methylene Chloride	84	3.265	3.265	0.000	89	58163	5.00	5.13	
31 2-Methyl-2-propanol	59	3.417	3.417	0.000	95	72062	50.0	52.3	M
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	92	170464	5.00	5.15	
33 trans-1,2-Dichloroethene	96	3.496	3.496	0.000	86	52020	5.00	5.11	
34 Acrylonitrile	53	3.520	3.520	0.000	99	466998	50.0	50.8	
35 Hexane	57	3.721	3.721	0.000	96	141218	5.00	5.43	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.904	3.904	0.000	96	128144	5.00	5.15	
39 Vinyl acetate	43	3.958	3.958	0.000	97	400719	10.0	9.85	
42 2,2-Dichloropropane	77	4.433	4.433	0.000	75	55505	5.00	5.01	
43 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	88	57114	5.00	5.06	
44 2-Butanone (MEK)	43	4.481	4.481	0.000	96	265491	25.0	25.1	
47 Chlorobromomethane	128	4.682	4.682	0.000	82	26773	5.00	4.85	
49 Tetrahydrofuran	42	4.719	4.719	0.000	94	75681	10.0	10.1	
50 Chloroform	83	4.761	4.761	0.000	92	90808	5.00	4.91	
51 1,1,1-Trichloroethane	97	4.895	4.895	0.000	92	73088	5.00	5.13	
52 Cyclohexane	56	4.919	4.919	0.000	84	150658	5.00	5.25	
53 Carbon tetrachloride	117	5.041	5.041	0.000	95	65113	5.00	5.09	
54 1,1-Dichloropropene	75	5.047	5.047	0.000	82	73059	5.00	5.29	
56 Isobutyl alcohol	43	5.230	5.230	0.000	54	108877	125.0	122.5	M
55 Benzene	78	5.242	5.242	0.000	94	215351	5.00	5.12	
57 1,2-Dichloroethane	62	5.291	5.291	0.000	96	107625	5.00	5.15	
59 n-Heptane	43	5.455	5.455	0.000	94	149467	5.00	4.97	
60 Trichloroethene	95	5.856	5.856	0.000	92	58906	5.00	5.66	
62 Methylcyclohexane	83	5.990	5.990	0.000	89	88931	5.00	5.32	
63 1,2-Dichloropropane	63	6.075	6.075	0.000	84	70589	5.00	5.05	
64 Dibromomethane	93	6.203	6.203	0.000	91	34863	5.00	5.14	
66 1,4-Dioxane	88	6.234	6.234	0.000	64	9914	100.0	98.4	M
67 Dichlorobromomethane	83	6.361	6.361	0.000	92	64716	5.00	5.07	
69 2-Chloroethyl vinyl ether	63	6.647	6.647	0.000	88	52891	5.00	5.73	
71 cis-1,3-Dichloropropene	75	6.787	6.787	0.000	83	81492	5.00	5.19	
72 4-Methyl-2-pentanone (MIBK)	58	6.927	6.927	0.000	98	196849	25.0	25.7	
73 Toluene	92	7.085	7.085	0.000	96	136928	5.00	5.17	
75 trans-1,3-Dichloropropene	75	7.347	7.347	0.000	85	68595	5.00	4.77	
77 Ethyl methacrylate	69	7.402	7.402	0.000	87	63301	5.00	4.98	
78 1,1,2-Trichloroethane	83	7.529	7.529	0.000	90	36625	5.00	4.97	
79 Tetrachloroethene	166	7.633	7.633	0.000	1	57344	5.00	5.12	M
80 1,3-Dichloropropane	76	7.694	7.694	0.000	89	87222	5.00	5.50	
82 2-Hexanone	43	7.767	7.767	0.000	99	391670	25.0	26.7	
83 Chlorodibromomethane	129	7.931	7.931	0.000	88	47734	5.00	5.08	
84 Ethylene Dibromide	107	8.040	8.040	0.000	98	47208	5.00	5.10	
85 Chlorobenzene	112	8.533	8.533	0.000	91	149818	5.00	5.20	
89 1,1,1,2-Tetrachloroethane	131	8.618	8.618	0.000	89	50465	5.00	5.19	
88 Ethylbenzene	91	8.630	8.630	0.000	97	252968	5.00	5.24	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	95202	5.00	5.14	
91 o-Xylene	106	9.178	9.178	0.000	97	94539	5.00	5.11	
92 Styrene	104	9.202	9.202	0.000	91	154674	5.00	5.00	
93 Bromoform	173	9.427	9.427	0.000	94	28534	5.00	4.64	
95 Isopropylbenzene	105	9.561	9.561	0.000	97	250469	5.00	5.08	
97 Bromobenzene	156	9.896	9.896	0.000	90	63131	5.00	5.09	
98 1,1,2,2-Tetrachloroethane	83	9.932	9.932	0.000	93	68453	5.00	5.29	
99 1,2,3-Trichloropropane	110	9.963	9.963	0.000	94	21909	5.00	5.48	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	68	25946	5.00	4.60	
100 N-Propylbenzene	91	9.987	9.987	0.000	98	287248	5.00	5.09	
102 2-Chlorotoluene	126	10.084	10.084	0.000	95	56893	5.00	5.01	
104 1,3,5-Trimethylbenzene	105	10.170	10.170	0.000	93	209099	5.00	5.14	
105 4-Chlorotoluene	91	10.194	10.194	0.000	98	206393	5.00	5.34	
106 tert-Butylbenzene	134	10.486	10.486	0.000	96	46028	5.00	5.18	
108 1,2,4-Trimethylbenzene	105	10.535	10.535	0.000	98	210212	5.00	5.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.693	10.693	0.000	95	273961	5.00	5.41	
110 1,3-Dichlorobenzene	146	10.821	10.821	0.000	96	116746	5.00	5.01	
111 4-Isopropyltoluene	119	10.833	10.833	0.000	98	235931	5.00	5.50	
113 1,4-Dichlorobenzene	146	10.906	10.906	0.000	80	126566	5.00	5.18	M
115 n-Butylbenzene	91	11.222	11.222	0.000	98	203898	5.00	5.46	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	95	119792	5.00	5.35	
117 1,2-Dibromo-3-Chloropropan	75	11.976	11.976	0.000	73	11024	5.00	5.04	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	94	64789	5.00	4.94	
120 Hexachlorobutadiene	225	12.792	12.792	0.000	95	33507	5.00	5.39	
121 Naphthalene	128	12.877	12.877	0.000	95	156187	5.00	4.85	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	58980	5.00	5.31	
S 123 1,3-Dichloropropene, Total	1				0			9.96	
S 124 1,2-Dichloroethene, Total	1				0			10.2	
S 125 Total BTEX	1				0			25.8	
S 126 Xylenes, Total	1				0			10.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00101

Amount Added: 5.00

Units: uL

GAS CORP mix_00226

Amount Added: 5.00

Units: uL

N_8260_Surr_00273

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00075

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20170626-63590.b\\N9070.D

Injection Date: 26-Jun-2017 16:40:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 3

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

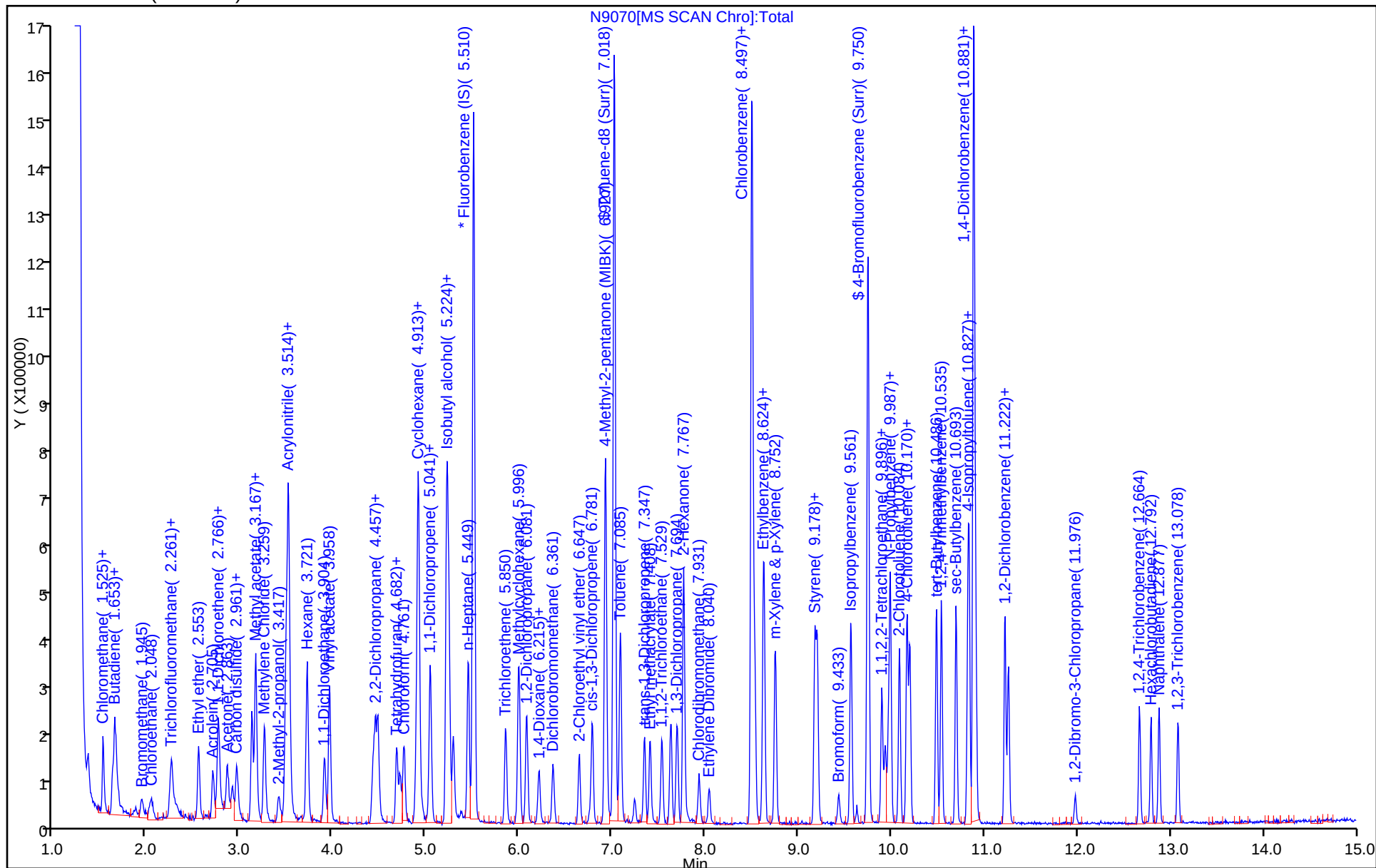
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9070.D

Injection Date: 26-Jun-2017 16:40:30

Instrument ID: HP5973N

Lims ID: IC 3

Client ID:

Operator ID: LH

ALS Bottle#:

15

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

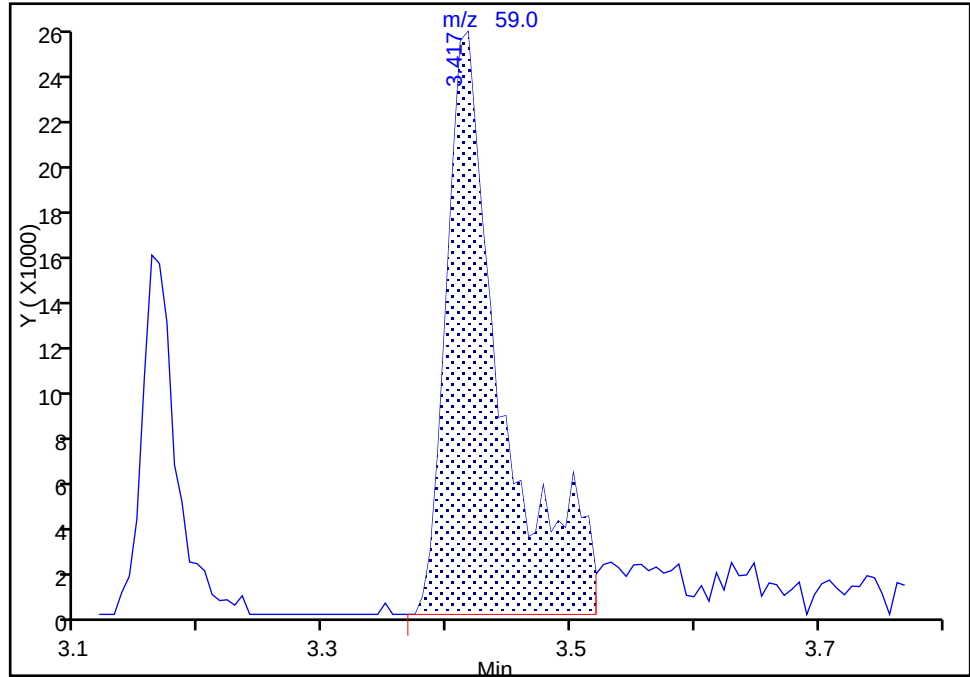
Detector: MS SCAN

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

Signal: 1

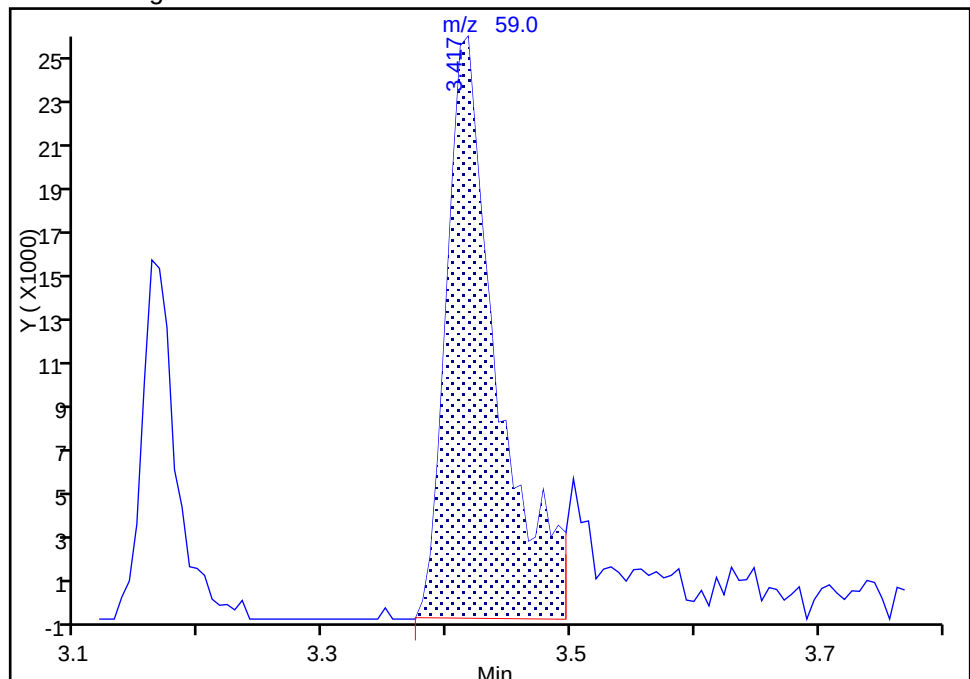
RT: 3.42
Area: 78257
Amount: 56.205895
Amount Units: ug/L

Processing Integration Results



RT: 3.42
Area: 72062
Amount: 52.338697
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 27-Jun-2017 09:17:38

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

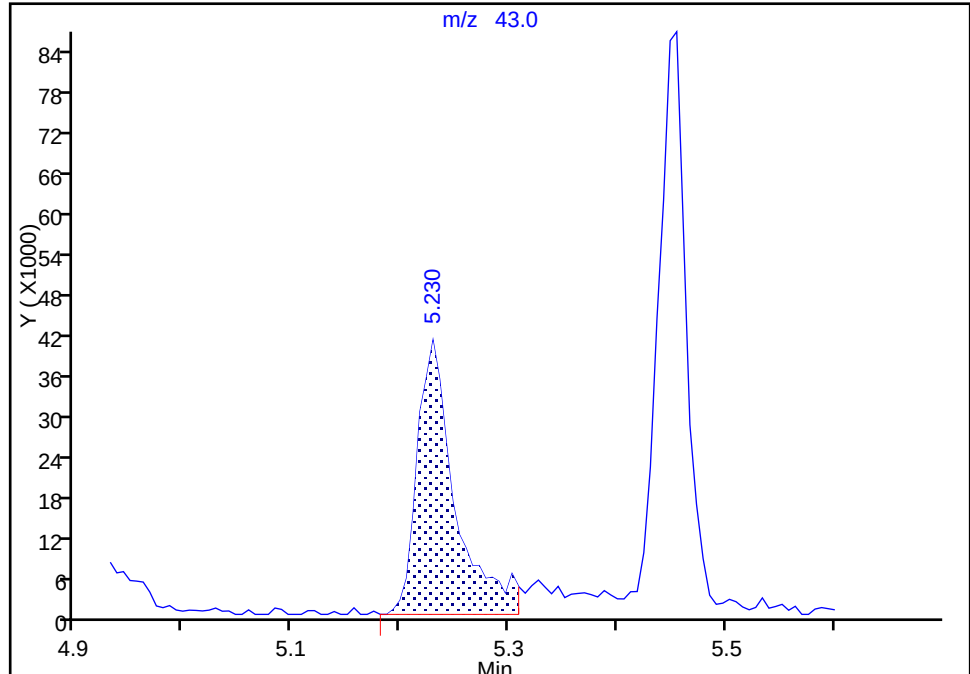
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9070.D
Injection Date: 26-Jun-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 15 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

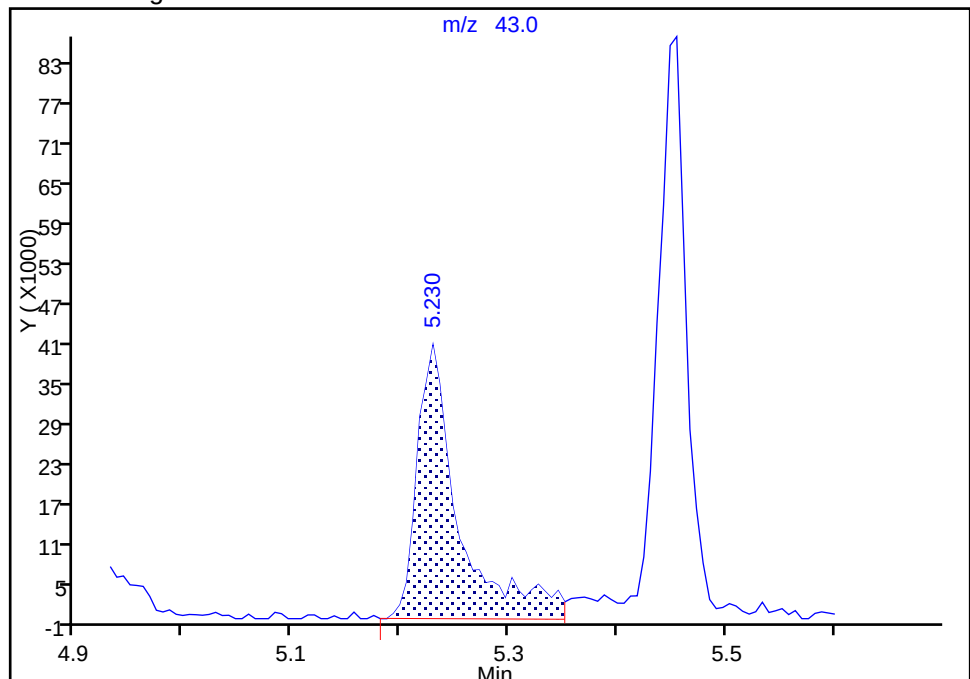
RT: 5.23
Area: 99056
Amount: 112.6855
Amount Units: ug/L

Processing Integration Results



RT: 5.23
Area: 108877
Amount: 122.4893
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 27-Jun-2017 09:18:14

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9070.D

Injection Date: 26-Jun-2017 16:40:30

Instrument ID: HP5973N

Lims ID: IC 3

Client ID:

Operator ID: LH

ALS Bottle#:

15

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

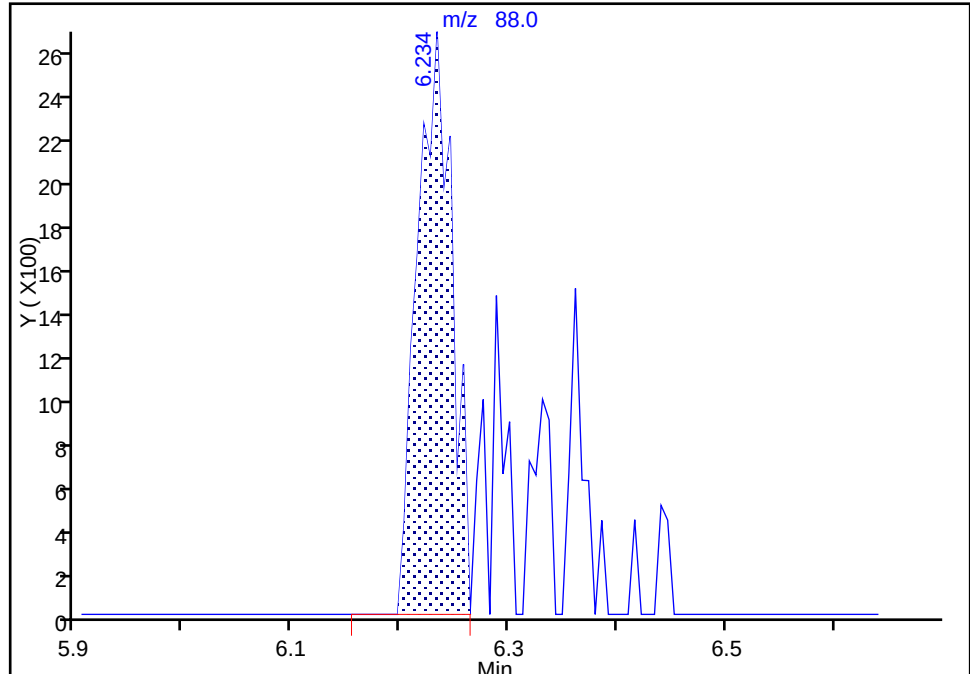
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

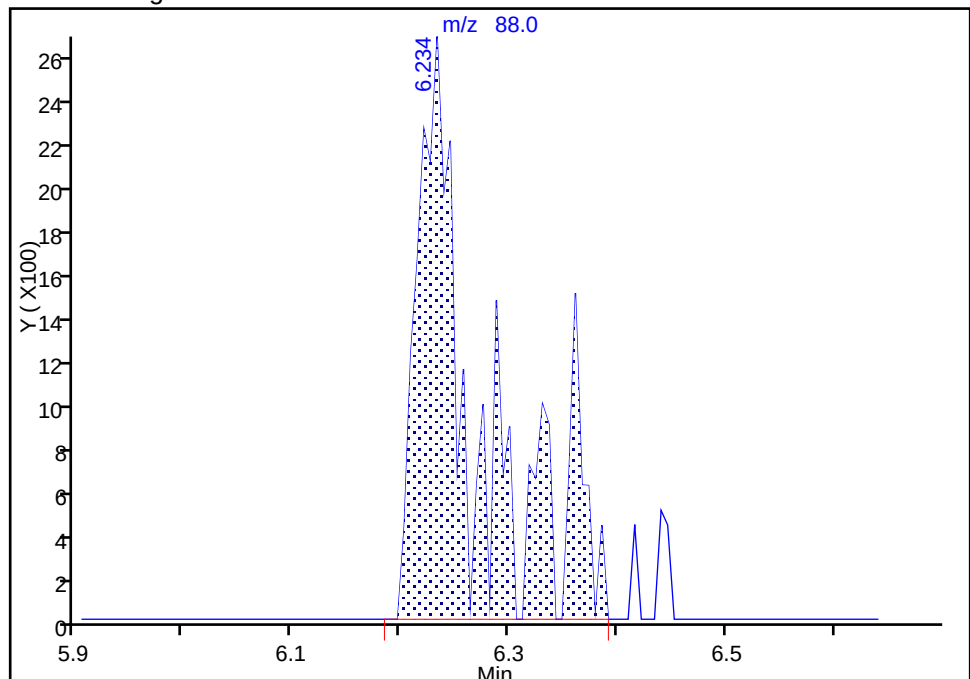
RT: 6.23
Area: 5774
Amount: 58.751972
Amount Units: ug/L

Processing Integration Results



RT: 6.23
Area: 9914
Amount: 98.391778
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:46:13

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

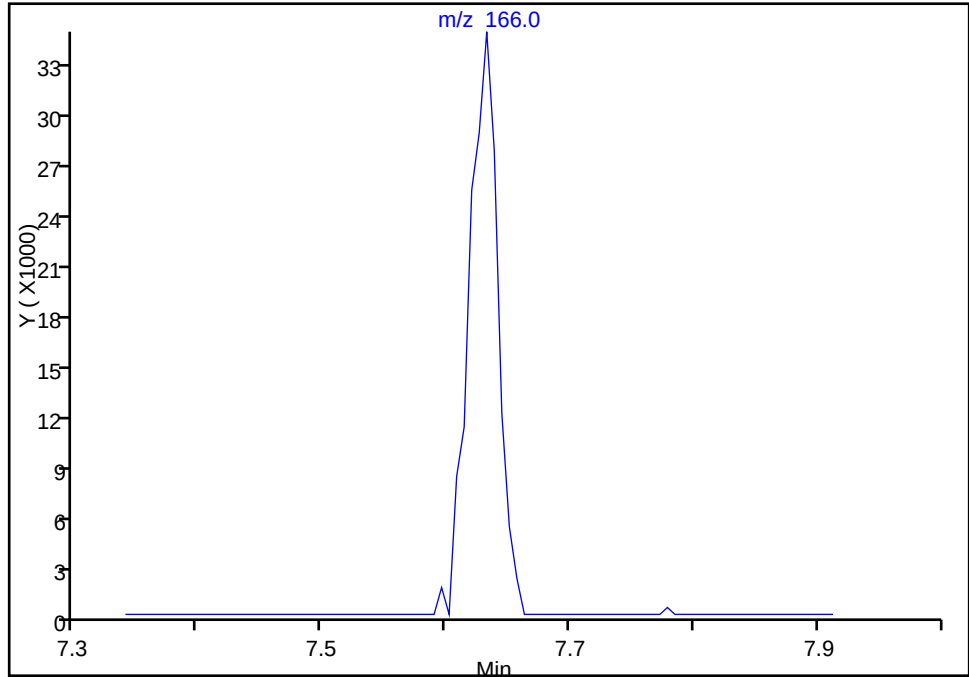
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Injection Date: 26-Jun-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 15 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

79 Tetrachloroethene, CAS: 127-18-4

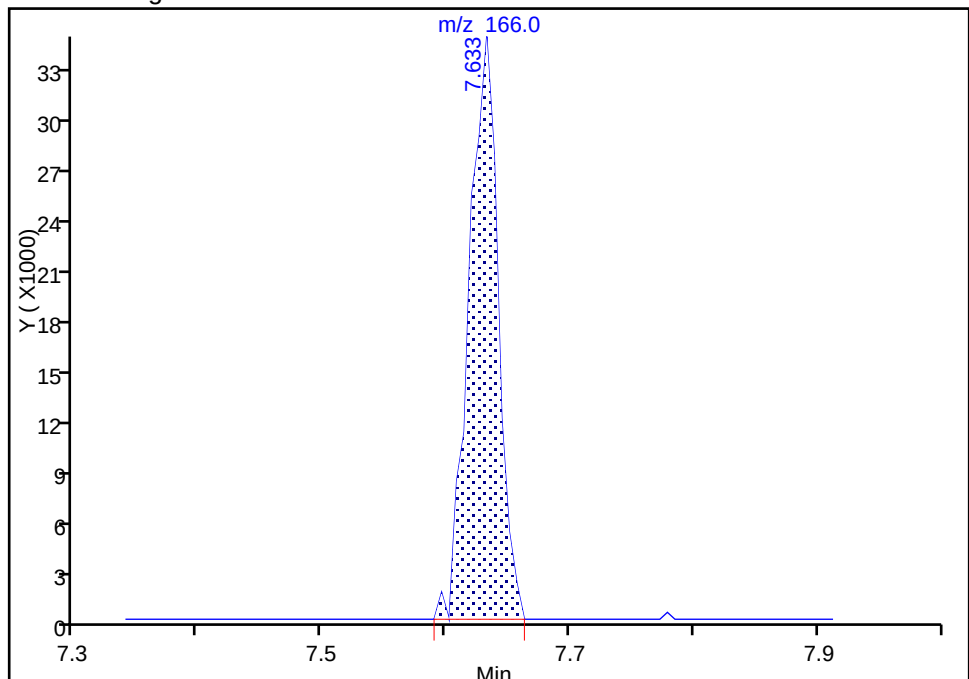
Signal: 1

Not Detected
Expected RT: 7.63

Processing Integration Results



Manual Integration Results



RT: 7.63
Area: 57344
Amount: 5.117368
Amount Units: ug/L

Reviewer: sonkera, 27-Jun-2017 00:47:02

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

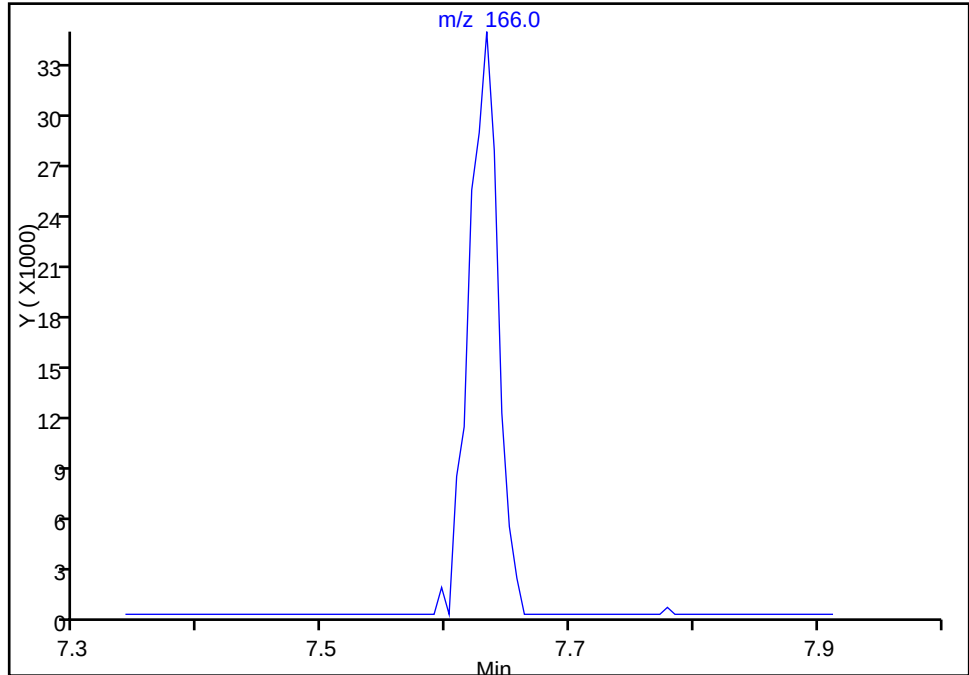
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9070.D
Injection Date: 26-Jun-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 15 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

79 Tetrachloroethene, CAS: 127-18-4

Signal: 1

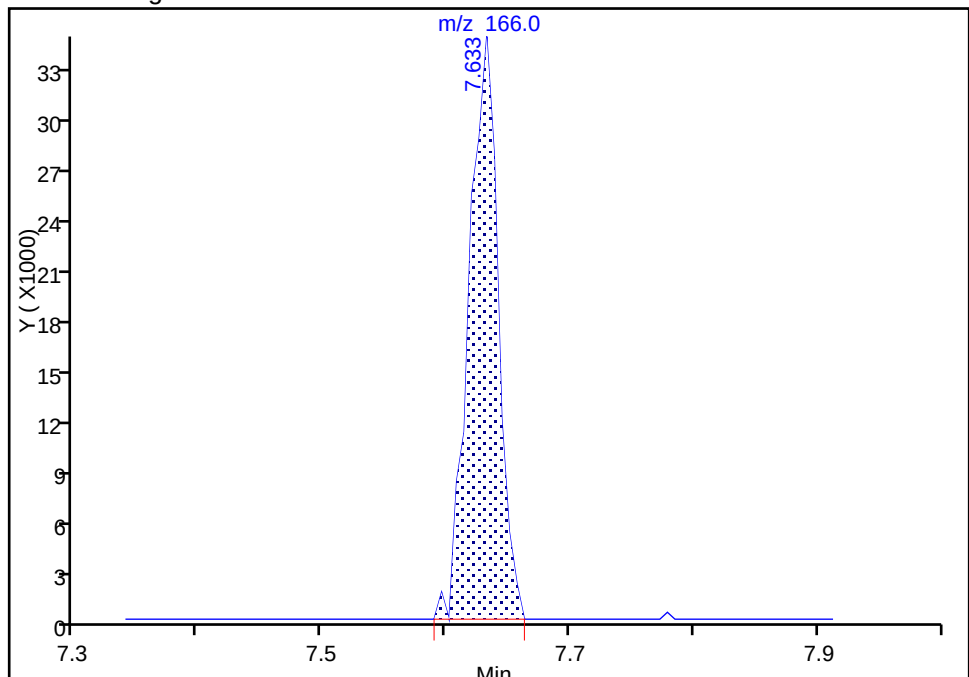
Not Detected
Expected RT: 7.63

Processing Integration Results



Manual Integration Results

RT: 7.63
Area: 57344
Amount: 5.117368
Amount Units: ug/L



Reviewer: sonkera, 27-Jun-2017 00:47:44

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo

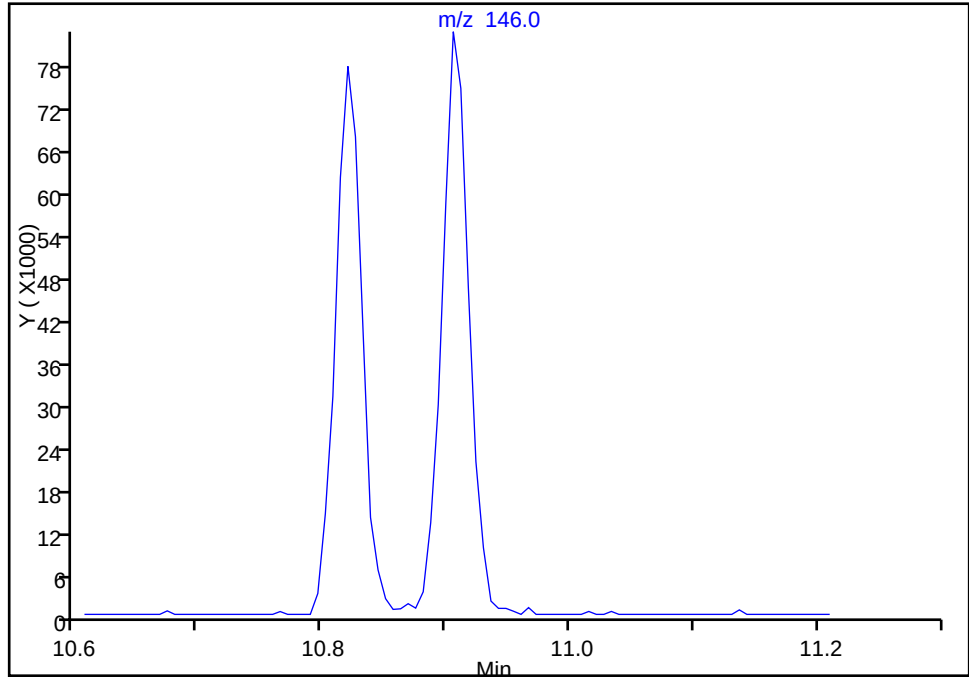
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Injection Date: 26-Jun-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 15 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

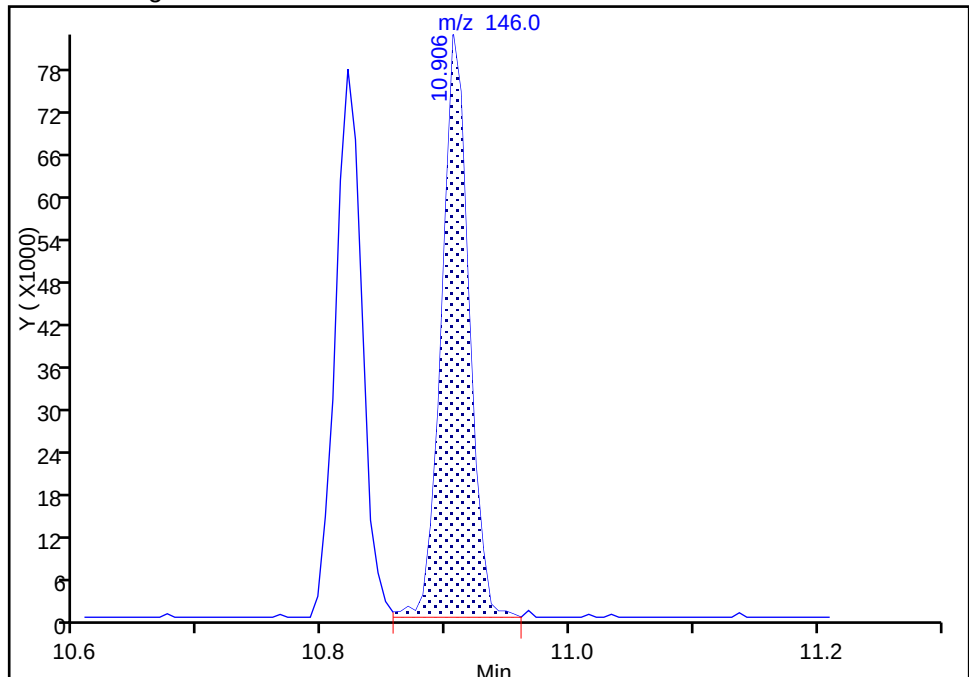
Not Detected
Expected RT: 10.91

Processing Integration Results



RT: 10.91
Area: 126566
Amount: 5.179989
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:49:04

Audit Action: Assigned Compound ID

Audit Reason: Missed Peak

TestAmerica Buffalo

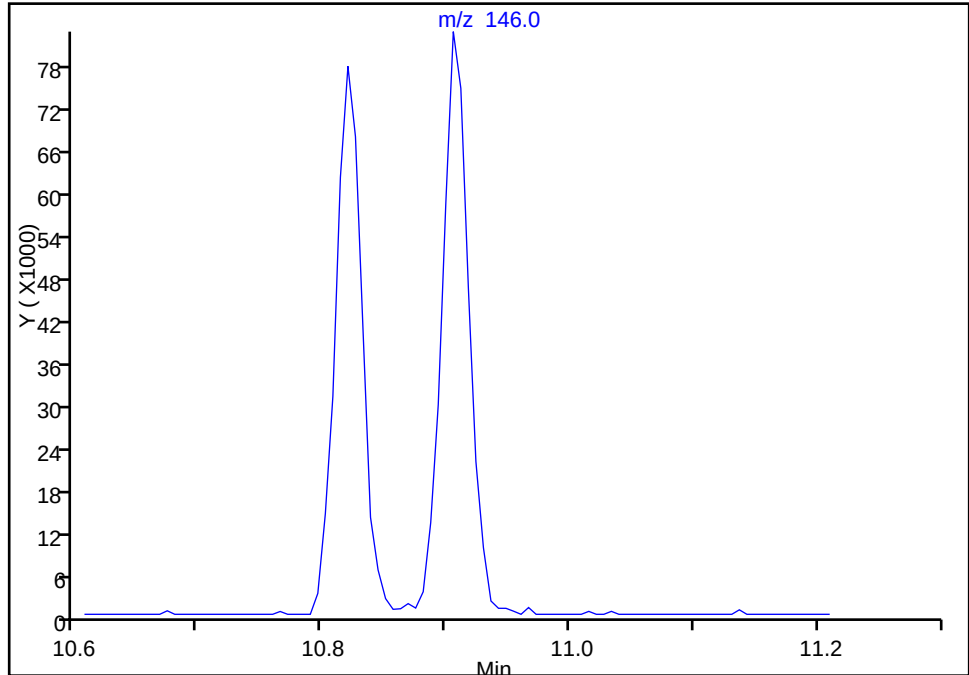
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Injection Date: 26-Jun-2017 16:40:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 15 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

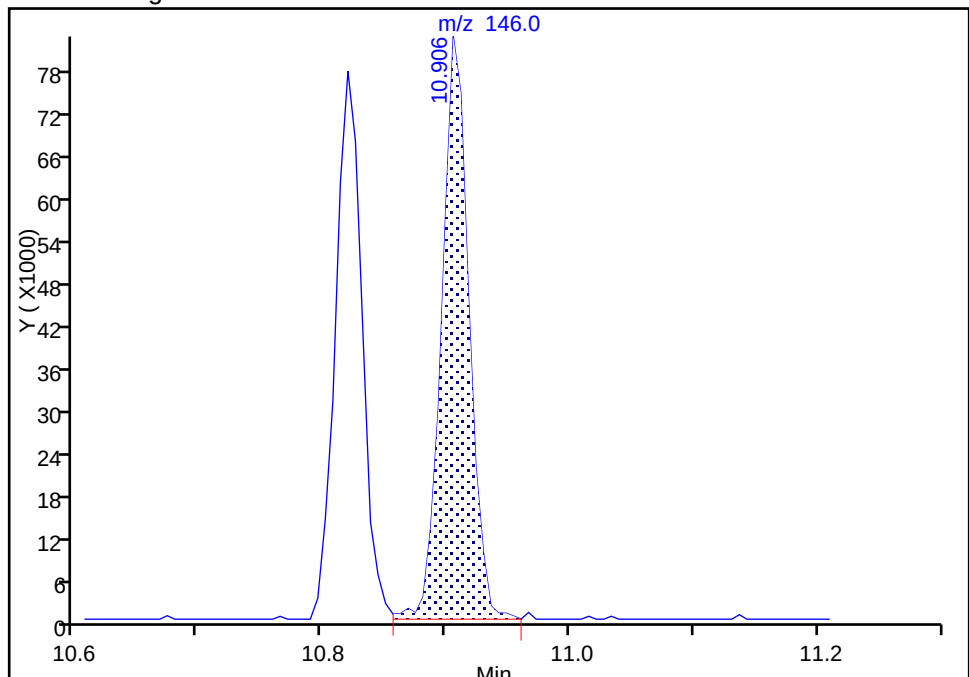
Not Detected
Expected RT: 10.91

Processing Integration Results



Manual Integration Results

RT: 10.91
Area: 126566
Amount: 5.179989
Amount Units: ug/L



Reviewer: sonkera, 27-Jun-2017 00:50:19

Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 271 of 422

07/03/2017

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9071.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 26-Jun-2017 17:07:30 ALS Bottle#: 16 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0063590-010
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 10:18:19 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK042

First Level Reviewer: sonkera

Date: 26-Jun-2017 22:22:48

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	5.510	5.510	0.000	97	209398	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.497	8.497	0.000	90	771088	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.882	10.887	-0.005	94	376184	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.907	4.913	-0.006	93	222906	25.0	24.3	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.218	5.218	0.000	0	343633	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	7.018	7.018	0.000	95	931352	25.0	25.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	89	305305	25.0	24.7	
11 Dichlorodifluoromethane	85	1.361	1.367	-0.006	96	111607	10.0	10.7	
13 Chloromethane	50	1.525	1.525	0.000	98	235700	10.0	9.87	
14 Vinyl chloride	62	1.628	1.628	0.000	96	165530	10.0	10.1	
144 Butadiene	54	1.653	1.653	0.000	91	207872	10.0	10.4	
15 Bromomethane	94	1.951	1.945	0.006	88	43745	10.0	9.40	
16 Chloroethane	64	2.042	2.048	-0.006	96	63490	10.0	9.61	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	94	157109	10.0	9.92	
18 Trichlorofluoromethane	101	2.261	2.267	-0.006	93	138969	10.0	10.0	
19 Ethyl ether	59	2.553	2.553	0.000	95	158907	10.0	9.69	
20 Acrolein	56	2.705	2.711	-0.006	99	171384	50.0	50.0	
22 1,1-Dichloroethene	96	2.766	2.766	0.000	89	88721	10.0	10.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	77	92625	10.0	10.9	
23 Acetone	43	2.863	2.863	0.000	97	316634	50.0	46.8	
24 Iodomethane	142	2.918	2.912	0.006	100	145934	10.0	9.99	
25 Carbon disulfide	76	2.961	2.961	0.000	98	302896	10.0	9.98	
27 3-Chloro-1-propene	41	3.125	3.125	0.000	87	329804	10.0	9.67	
28 Methyl acetate	43	3.161	3.167	-0.006	99	908143	50.0	50.5	M
30 Methylene Chloride	84	3.259	3.265	-0.006	86	104169	10.0	9.21	
31 2-Methyl-2-propanol	59	3.417	3.417	0.000	96	147818	100.0	107.6	M
32 Methyl tert-butyl ether	73	3.484	3.490	-0.006	93	327414	10.0	9.93	
33 trans-1,2-Dichloroethene	96	3.502	3.496	0.006	89	105863	10.0	10.4	
34 Acrylonitrile	53	3.520	3.520	0.000	98	921987	100.0	100.5	
35 Hexane	57	3.715	3.721	-0.006	97	274771	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
36 1,1-Dichloroethane	63	3.904	3.904	0.000	96	245871	10.0	9.91	
39 Vinyl acetate	43	3.958	3.958	0.000	97	808141	20.0	19.9	
42 2,2-Dichloropropane	77	4.427	4.433	-0.006	83	106042	10.0	9.59	
43 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	89	111621	10.0	9.92	
44 2-Butanone (MEK)	43	4.482	4.481	0.001	96	545385	50.0	51.7	
47 Chlorobromomethane	128	4.688	4.682	0.006	83	59565	10.0	10.8	
49 Tetrahydrofuran	42	4.713	4.719	-0.006	94	158676	20.0	21.2	
50 Chloroform	83	4.761	4.761	0.000	94	178869	10.0	9.70	
51 1,1,1-Trichloroethane	97	4.895	4.895	0.000	93	142392	10.0	10.0	
52 Cyclohexane	56	4.920	4.919	0.001	90	302762	10.0	10.6	
53 Carbon tetrachloride	117	5.035	5.041	-0.006	82	135592	10.0	10.6	
54 1,1-Dichloropropene	75	5.047	5.047	0.000	82	141588	10.0	10.3	
56 Isobutyl alcohol	43	5.230	5.230	0.000	80	222862	250.0	251.4	M
55 Benzene	78	5.242	5.242	0.000	92	427346	10.0	10.2	
57 1,2-Dichloroethane	62	5.291	5.291	0.000	94	211462	10.0	10.1	M
59 n-Heptane	43	5.455	5.455	0.000	95	317313	10.0	10.6	M
60 Trichloroethene	95	5.850	5.856	-0.006	91	100860	10.0	9.71	M
62 Methylcyclohexane	83	5.996	5.990	0.006	92	182111	10.0	10.9	
63 1,2-Dichloropropane	63	6.082	6.075	0.007	87	142222	10.0	10.2	
64 Dibromomethane	93	6.209	6.203	0.006	96	69873	10.0	10.3	
66 1,4-Dioxane	88	6.228	6.234	-0.006	47	19338	200.0	188.0	
67 Dichlorobromomethane	83	6.361	6.361	0.000	94	125677	10.0	9.87	
69 2-Chloroethyl vinyl ether	63	6.641	6.647	-0.006	83	96176	10.0	10.4	
71 cis-1,3-Dichloropropene	75	6.787	6.787	0.000	84	162768	10.0	10.4	
72 4-Methyl-2-pentanone (MIBK)	58	6.921	6.927	-0.006	98	402650	50.0	51.6	
73 Toluene	92	7.085	7.085	0.000	97	275079	10.0	10.2	
75 trans-1,3-Dichloropropene	75	7.347	7.347	0.000	90	144227	10.0	9.83	
77 Ethyl methacrylate	69	7.408	7.402	0.006	88	134563	10.0	10.4	
78 1,1,2-Trichloroethane	83	7.536	7.529	0.007	91	76511	10.0	10.2	
79 Tetrachloroethene	166	7.633	7.633	0.000	93	112943	10.0	9.87	
80 1,3-Dichloropropane	76	7.694	7.694	0.000	88	169262	10.0	10.5	
82 2-Hexanone	43	7.767	7.767	0.000	98	808849	50.0	54.0	M
83 Chlorodibromomethane	129	7.931	7.931	0.000	89	97478	10.0	10.2	
84 Ethylene Dibromide	107	8.041	8.040	0.001	100	95743	10.0	10.1	
85 Chlorobenzene	112	8.527	8.533	-0.006	92	291543	10.0	9.90	
89 1,1,1,2-Tetrachloroethane	131	8.625	8.618	0.007	90	100486	10.0	10.1	
88 Ethylbenzene	91	8.631	8.630	0.001	98	501279	10.0	10.2	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	200045	10.0	10.6	
91 o-Xylene	106	9.178	9.178	0.000	98	196293	10.0	10.4	
92 Styrene	104	9.202	9.202	0.000	92	321898	10.0	10.2	
93 Bromoform	173	9.434	9.427	0.007	95	57954	10.0	9.23	
95 Isopropylbenzene	105	9.561	9.561	0.000	96	499416	10.0	10.1	
97 Bromobenzene	156	9.896	9.896	0.000	91	120499	10.0	9.66	
98 1,1,2,2-Tetrachloroethane	83	9.933	9.932	0.001	95	127155	10.0	9.76	
99 1,2,3-Trichloropropane	110	9.963	9.963	0.000	95	43924	10.0	10.9	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	71	52585	10.0	9.26	
100 N-Propylbenzene	91	9.987	9.987	0.000	99	587826	10.0	10.4	
102 2-Chlorotoluene	126	10.085	10.084	0.001	94	113662	10.0	9.94	
104 1,3,5-Trimethylbenzene	105	10.170	10.170	0.000	95	425692	10.0	10.4	
105 4-Chlorotoluene	91	10.194	10.194	0.000	98	403499	10.0	10.4	
106 tert-Butylbenzene	134	10.480	10.486	-0.006	96	91195	10.0	10.2	
108 1,2,4-Trimethylbenzene	105	10.535	10.535	0.000	98	421963	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.693	10.693	0.000	95	542943	10.0	10.7	
110 1,3-Dichlorobenzene	146	10.821	10.821	0.000	98	239819	10.0	10.2	
111 4-Isopropyltoluene	119	10.833	10.833	0.000	97	459868	10.0	10.7	
113 1,4-Dichlorobenzene	146	10.906	10.906	0.000	94	249537	10.0	10.2	M
115 n-Butylbenzene	91	11.222	11.222	0.000	98	390078	10.0	10.4	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	96	232355	10.0	10.3	
117 1,2-Dibromo-3-Chloropropan	75	11.977	11.976	0.001	72	21427	10.0	9.73	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	94	130292	10.0	9.88	
120 Hexachlorobutadiene	225	12.792	12.792	0.000	97	67662	10.0	10.8	
121 Naphthalene	128	12.877	12.877	0.000	97	323690	10.0	9.99	
122 1,2,3-Trichlorobenzene	180	13.084	13.078	0.006	95	109395	10.0	9.79	
S 125 Total BTEX	1				0			51.5	
S 126 Xylenes, Total	1				0			21.0	
S 123 1,3-Dichloropropene, Total	1				0			20.2	
S 124 1,2-Dichloroethene, Total	1				0			20.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00101

Amount Added: 5.00

Units: uL

GAS CORP mix_00226

Amount Added: 5.00

Units: uL

N_8260_Surr_00273

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00075

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9071.D

Injection Date: 26-Jun-2017 17:07:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 4

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

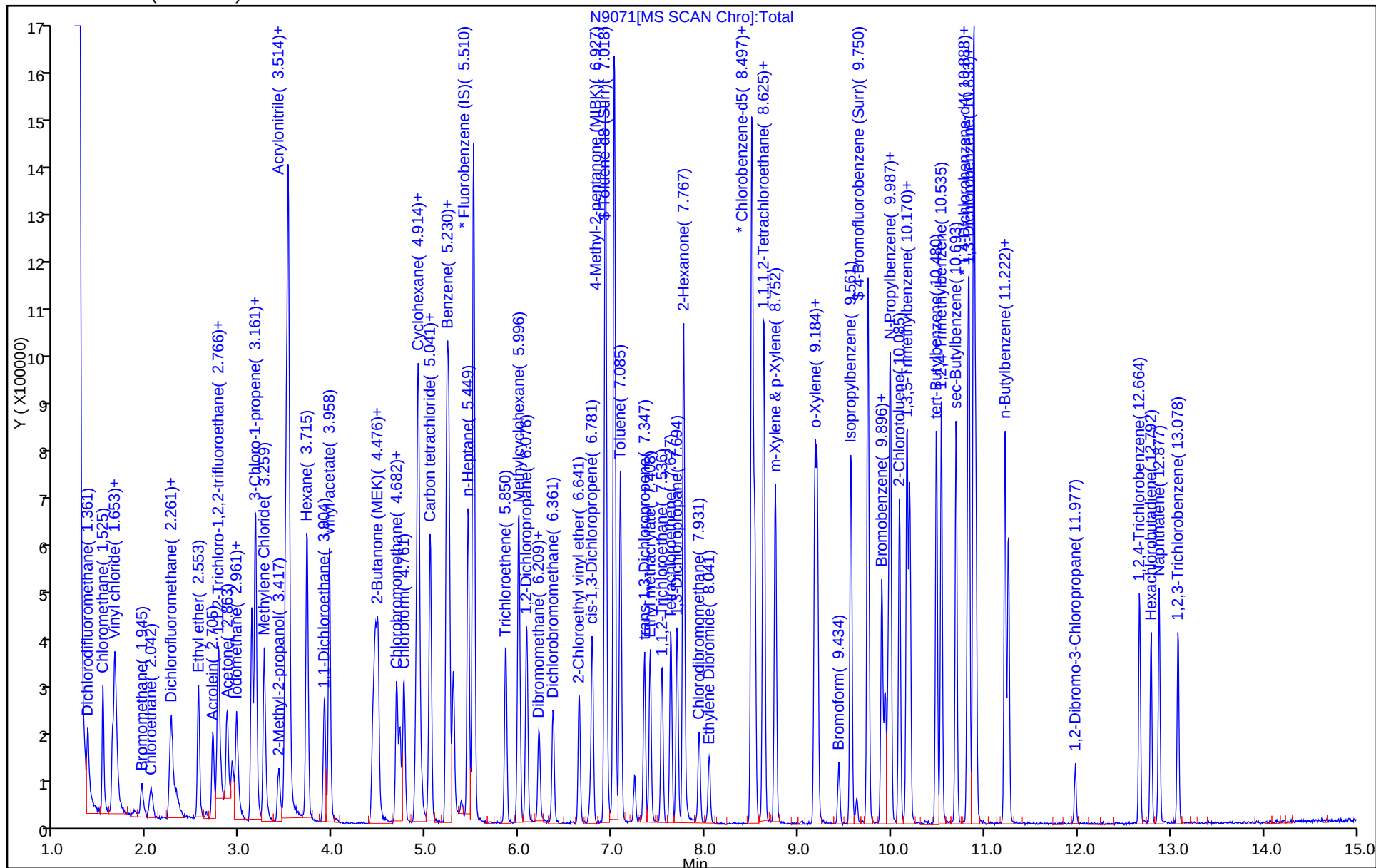
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9071.D

Injection Date: 26-Jun-2017 17:07:30

Instrument ID: HP5973N

Lims ID: IC 4

Client ID:

Operator ID: LH

ALS Bottle#:

16

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

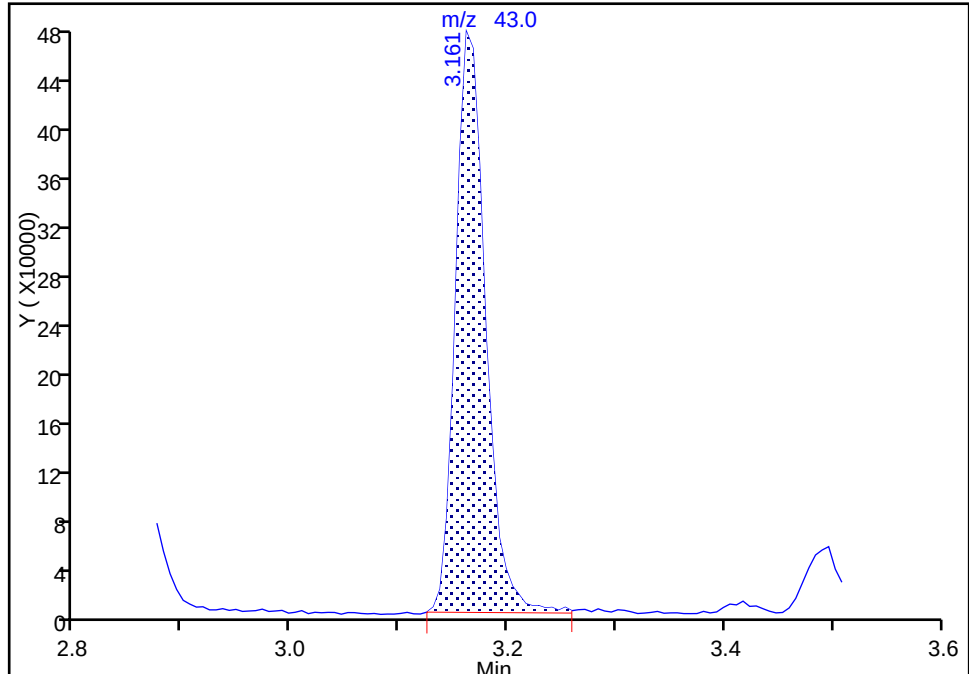
Detector: MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

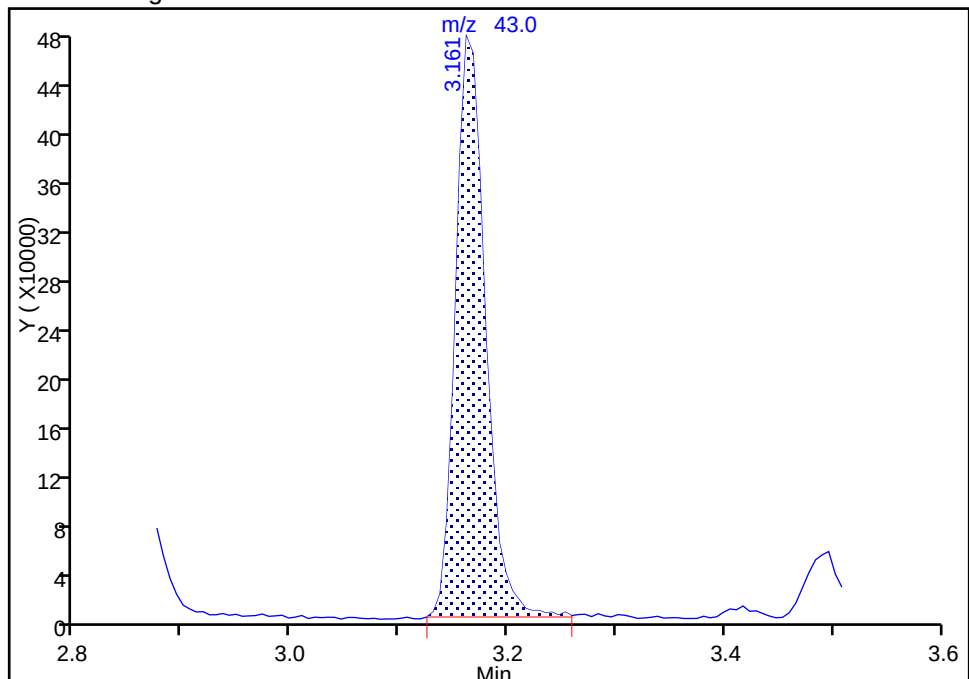
RT: 3.16
Area: 911345
Amount: 50.690333
Amount Units: ug/L

Processing Integration Results



RT: 3.16
Area: 908143
Amount: 50.534734
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:52:37

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9071.D

Injection Date: 26-Jun-2017 17:07:30

Instrument ID: HP5973N

Lims ID: IC 4

Client ID:

Operator ID: LH

ALS Bottle#: 16

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

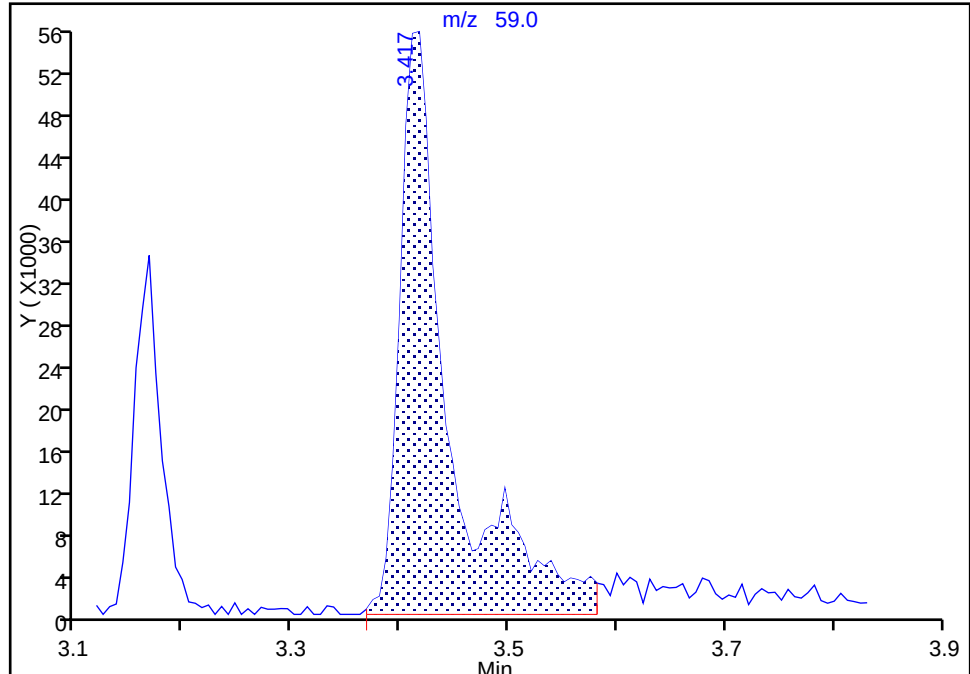
Detector: MS SCAN

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

Signal: 1

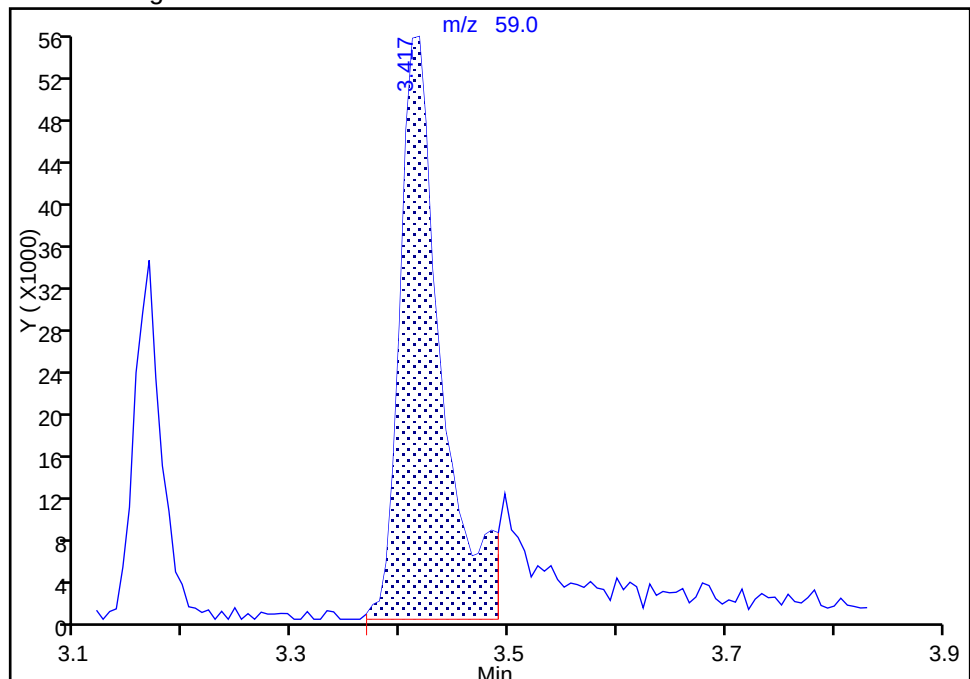
RT: 3.42
Area: 175951
Amount: 120.6555
Amount Units: ug/L

Processing Integration Results



RT: 3.42
Area: 147818
Amount: 107.6434
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:52:57

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

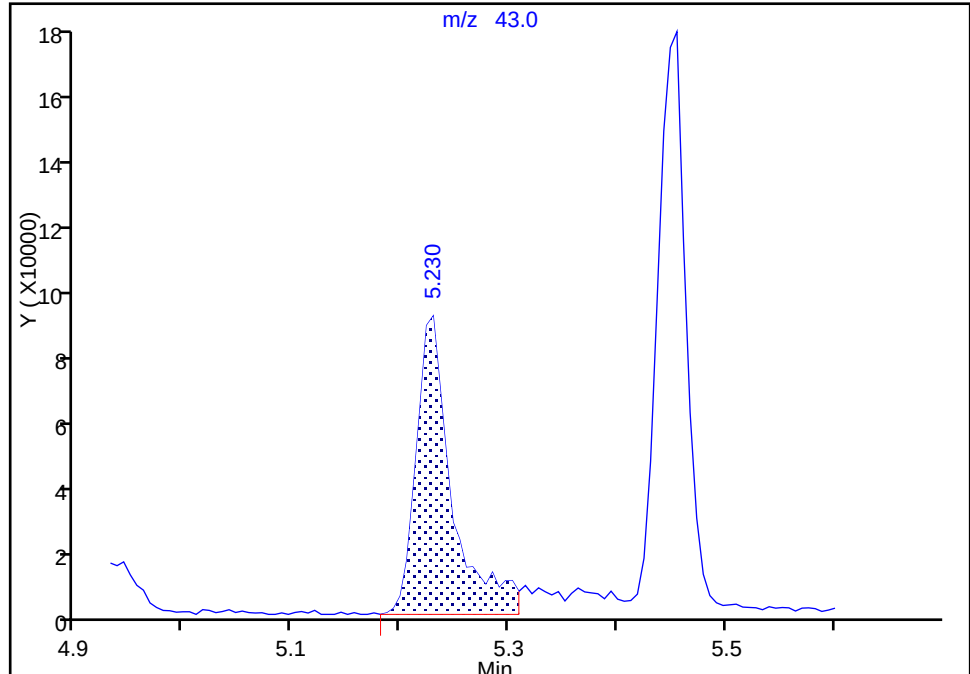
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9071.D
Injection Date: 26-Jun-2017 17:07:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 16 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

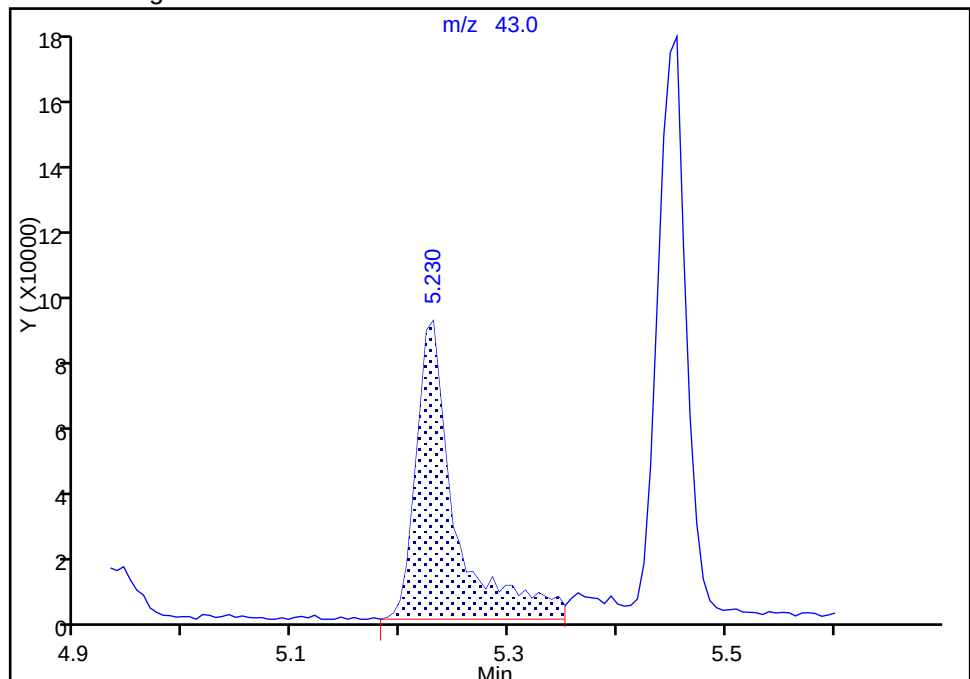
RT: 5.23
Area: 206209
Amount: 238.0554
Amount Units: ug/L

Processing Integration Results



RT: 5.23
Area: 222862
Amount: 251.3862
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:54:11
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
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07/03/2017

TestAmerica Buffalo

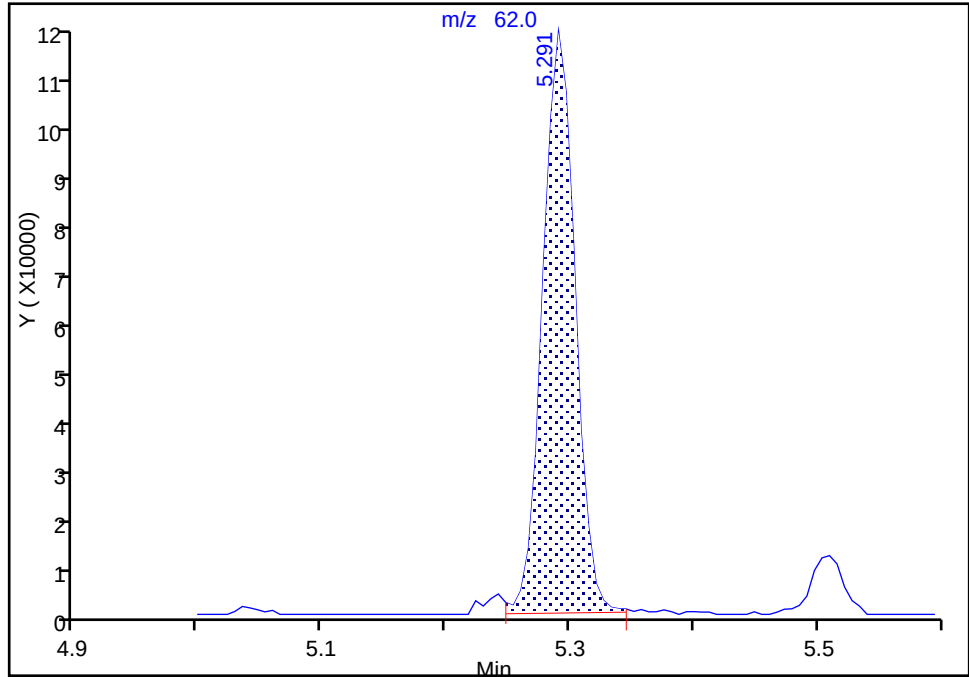
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9071.D
Injection Date: 26-Jun-2017 17:07:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 16 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

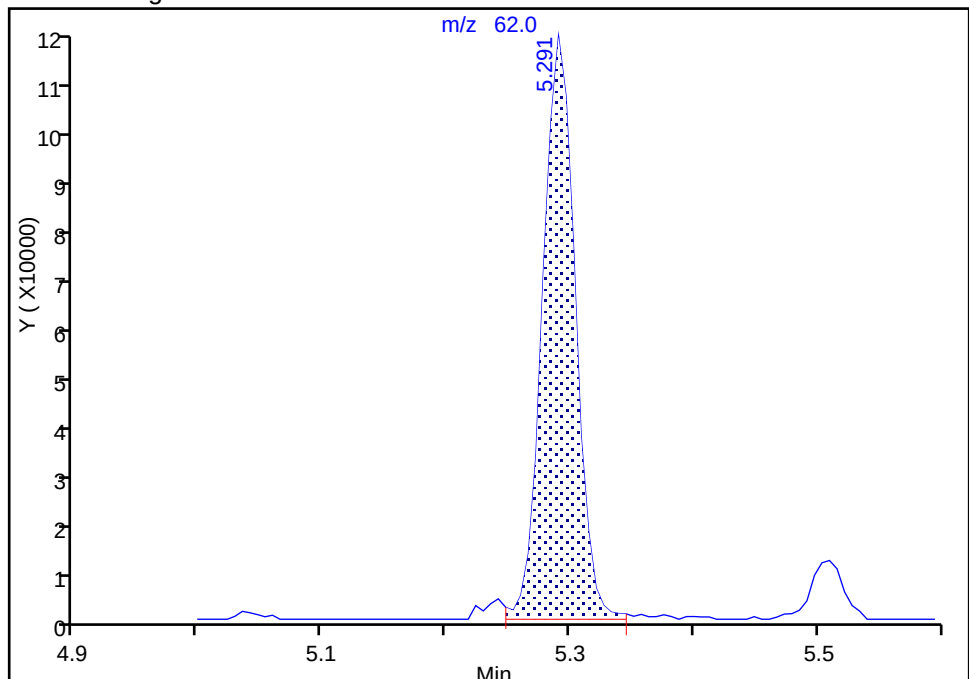
RT: 5.29
Area: 209737
Amount: 10.064650
Amount Units: ug/L

Processing Integration Results



RT: 5.29
Area: 211462
Amount: 10.136939
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:55:35

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9071.D

Injection Date: 26-Jun-2017 17:07:30

Instrument ID: HP5973N

Lims ID: IC 4

Client ID:

Operator ID: LH

ALS Bottle#:

16

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

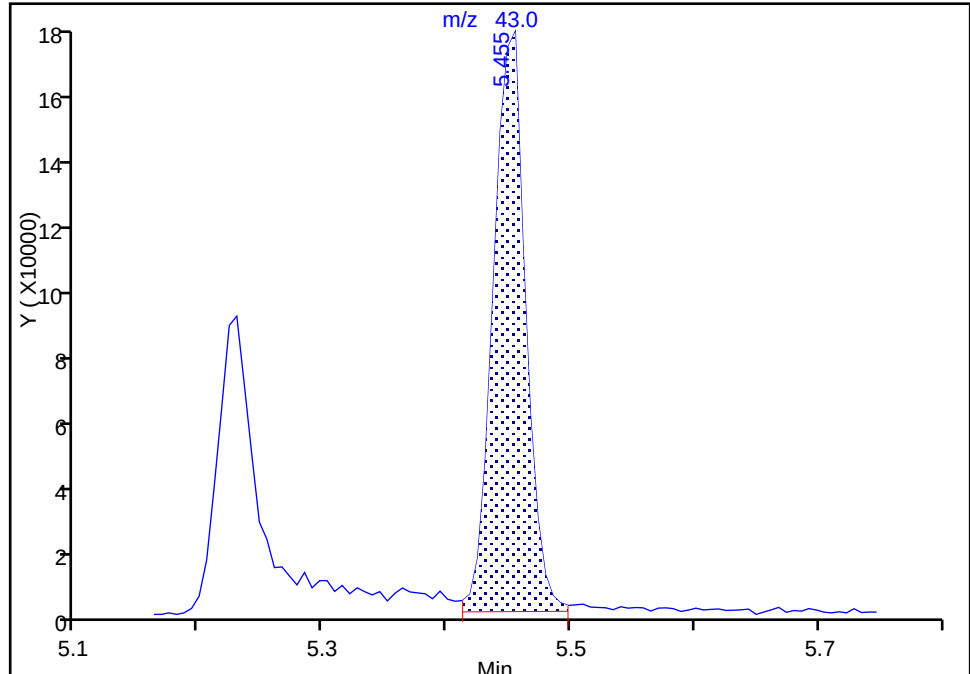
Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

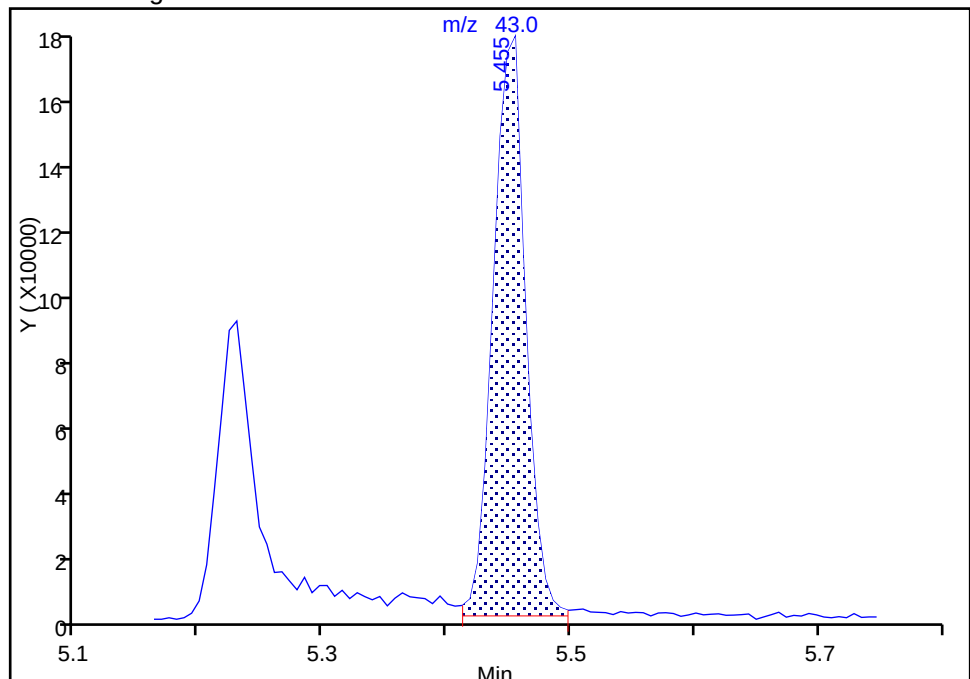
RT: 5.46
Area: 318244
Amount: 10.631796
Amount Units: ug/L

Processing Integration Results



RT: 5.46
Area: 317313
Amount: 10.574062
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:56:24

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9071.D

Injection Date: 26-Jun-2017 17:07:30

Instrument ID: HP5973N

Lims ID: IC 4

Client ID:

Operator ID: LH

ALS Bottle#: 16

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

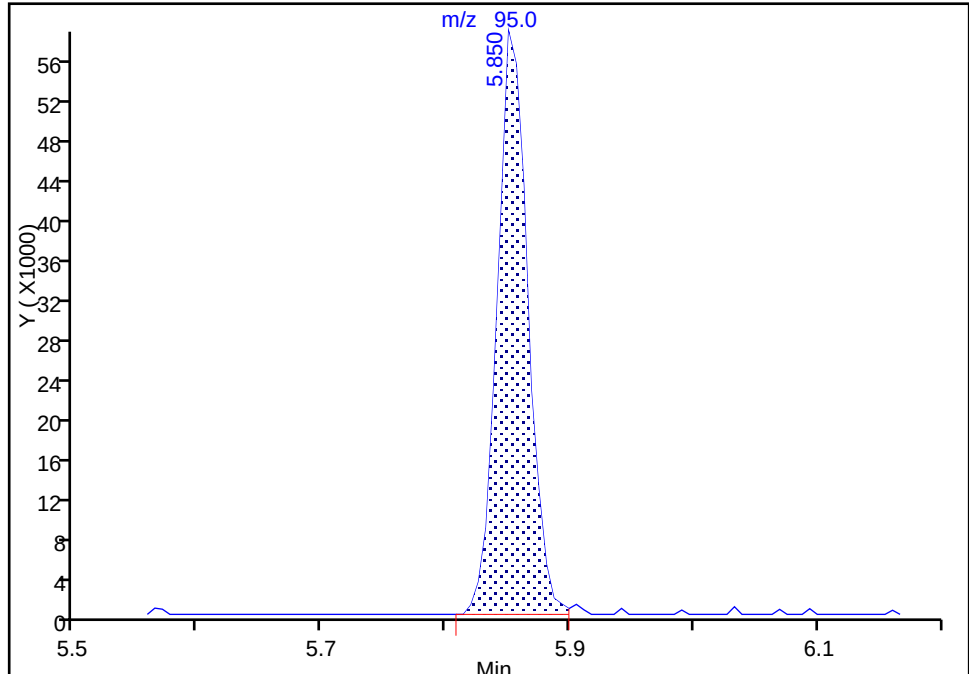
Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6

Signal: 1

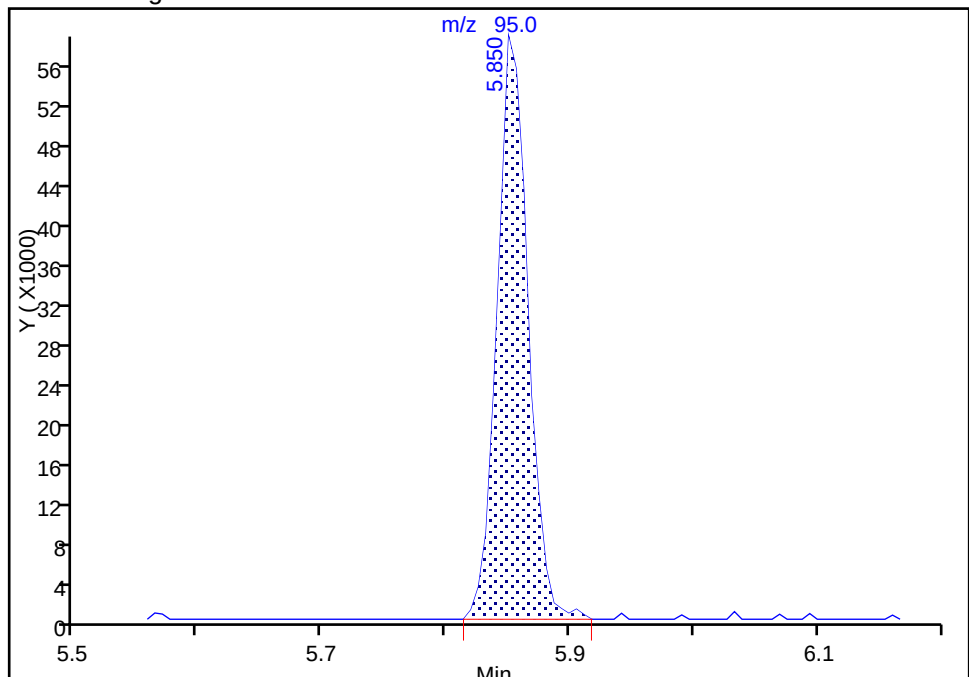
RT: 5.85
Area: 100328
Amount: 9.666422
Amount Units: ug/L

Processing Integration Results



RT: 5.85
Area: 100860
Amount: 9.711457
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:56:34

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9071.D

Injection Date: 26-Jun-2017 17:07:30

Instrument ID: HP5973N

Lims ID: IC 4

Client ID:

Operator ID: LH

ALS Bottle#: 16

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

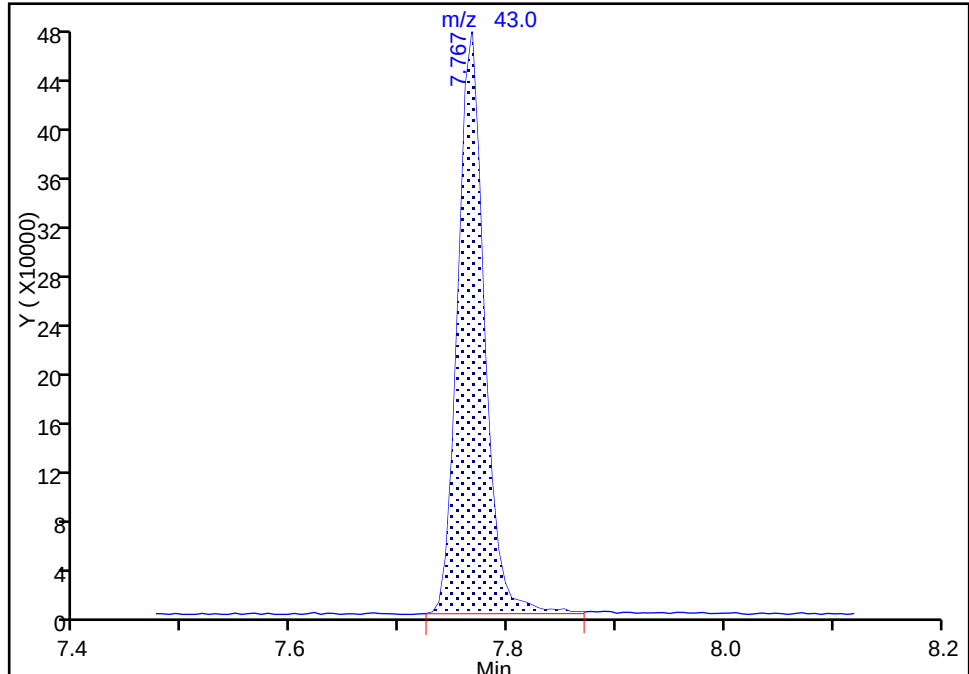
Detector: MS SCAN

82 2-Hexanone, CAS: 591-78-6

Signal: 1

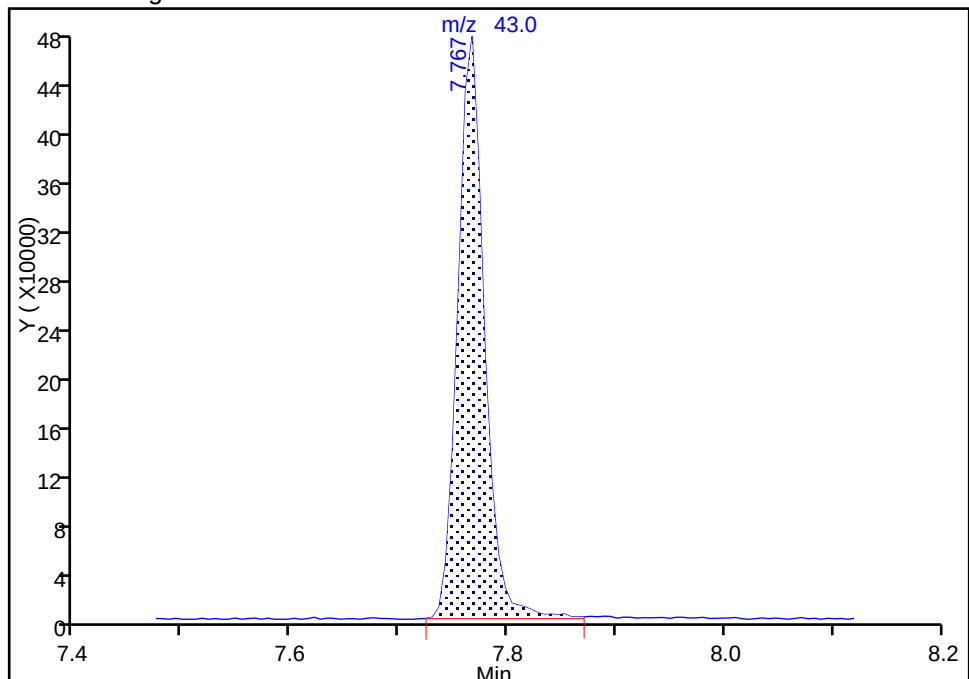
RT: 7.77
Area: 808260
Amount: 53.961353
Amount Units: ug/L

Processing Integration Results



RT: 7.77
Area: 808849
Amount: 53.995368
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:57:58

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9071.D

Injection Date: 26-Jun-2017 17:07:30

Instrument ID: HP5973N

Lims ID: IC 4

Client ID:

Operator ID: LH

ALS Bottle#:

16

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

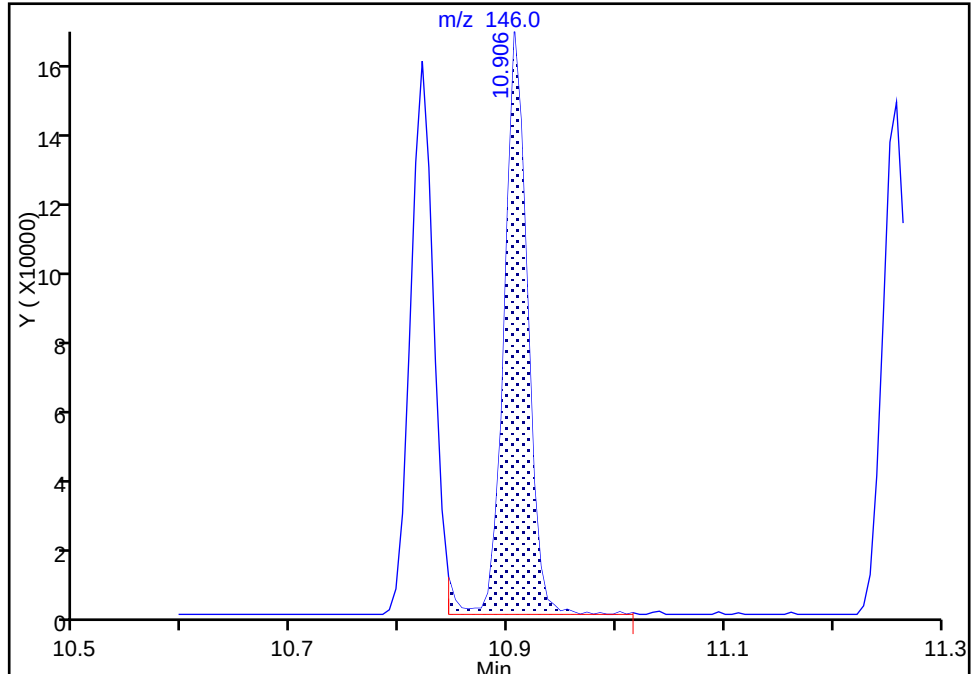
MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

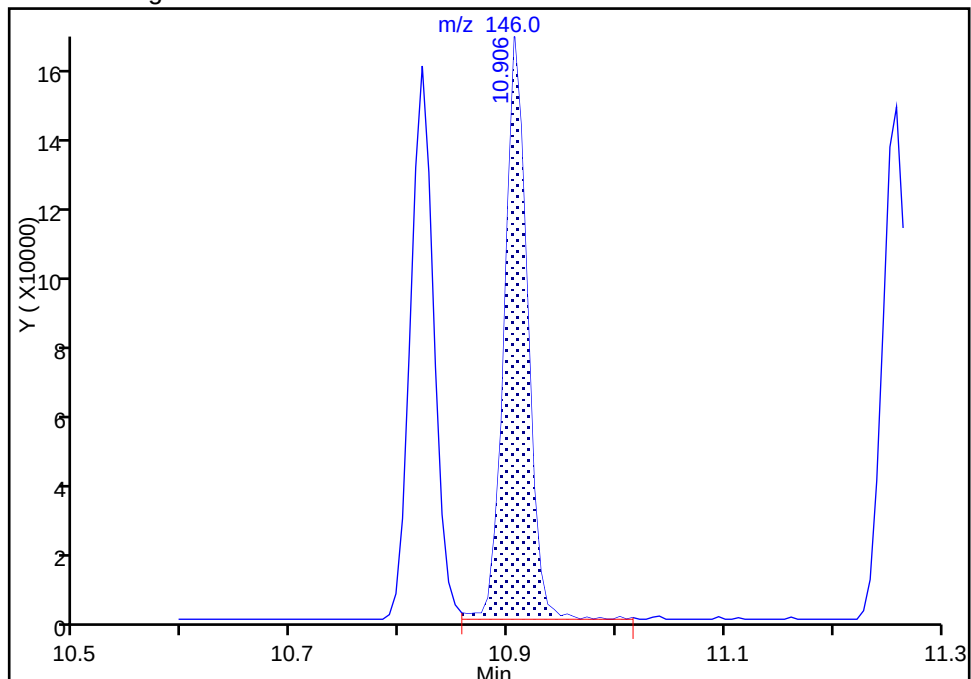
RT: 10.91
Area: 254992
Amount: 10.382050
Amount Units: ug/L

Processing Integration Results



RT: 10.91
Area: 249537
Amount: 10.150267
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 00:59:23

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9072.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 26-Jun-2017 17:35:30 ALS Bottle#: 17 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0063590-011
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 10:18:26 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK042

First Level Reviewer: sonkera

Date: 26-Jun-2017 19:13:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.510	5.510	0.000	97	198329	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.503	8.503	0.000	90	729645	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	94	357960	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.913	4.913	0.000	94	226203	25.0	26.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.218	5.218	0.000	0	326958	25.0	25.2	
\$ 6 Toluene-d8 (Surr)	98	7.018	7.018	0.000	95	875986	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	89	284354	25.0	24.3	
11 Dichlorodifluoromethane	85	1.367	1.367	0.000	97	217222	25.0	22.0	
13 Chloromethane	50	1.525	1.525	0.000	99	546140	25.0	24.1	
14 Vinyl chloride	62	1.634	1.634	0.000	96	354833	25.0	22.8	
144 Butadiene	54	1.659	1.659	0.000	91	436909	25.0	23.2	
15 Bromomethane	94	1.945	1.945	0.000	91	113097	25.0	25.7	
16 Chloroethane	64	2.042	2.042	0.000	94	143737	25.0	23.0	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	95	369378	25.0	24.6	
18 Trichlorofluoromethane	101	2.267	2.267	0.000	97	295746	25.0	22.5	
19 Ethyl ether	59	2.553	2.553	0.000	94	368535	25.0	23.7	
20 Acrolein	56	2.711	2.711	0.000	100	391823	125.0	120.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	50	201648	25.0	25.0	
22 1,1-Dichloroethene	96	2.766	2.766	0.000	88	198689	25.0	23.8	
23 Acetone	43	2.863	2.863	0.000	99	781506	125.0	121.9	
24 Iodomethane	142	2.918	2.918	0.000	99	351081	25.0	25.4	
25 Carbon disulfide	76	2.967	2.967	0.000	98	711270	25.0	24.7	
27 3-Chloro-1-propene	41	3.131	3.131	0.000	86	780372	25.0	24.2	
28 Methyl acetate	43	3.167	3.167	0.000	99	2129881	125.0	125.1	
30 Methylene Chloride	84	3.259	3.259	0.000	87	244833	25.0	22.9	
31 2-Methyl-2-propanol	59	3.417	3.417	0.000	97	316349	250.0	243.2	
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	91	773486	25.0	24.8	
33 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	88	243432	25.0	25.3	
34 Acrylonitrile	53	3.520	3.520	0.000	100	2165500	250.0	249.2	
35 Hexane	57	3.721	3.721	0.000	96	565368	25.0	23.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.910	3.910	0.000	96	574810	25.0	24.5	
39 Vinyl acetate	43	3.958	3.958	0.000	97	1880285	50.0	48.9	
42 2,2-Dichloropropane	77	4.427	4.427	0.000	83	239601	25.0	22.9	
43 cis-1,2-Dichloroethene	96	4.451	4.451	0.000	88	265637	25.0	24.9	
44 2-Butanone (MEK)	43	4.482	4.482	0.000	96	1207309	125.0	120.9	
47 Chlorobromomethane	128	4.682	4.682	0.000	82	134254	25.0	25.7	
49 Tetrahydrofuran	42	4.719	4.719	0.000	91	330886	50.0	46.6	
50 Chloroform	83	4.761	4.761	0.000	94	425868	25.0	24.4	
51 1,1,1-Trichloroethane	97	4.895	4.895	0.000	94	329527	25.0	24.5	
52 Cyclohexane	56	4.920	4.920	0.000	91	674819	25.0	24.9	
53 Carbon tetrachloride	117	5.041	5.041	0.000	95	298133	25.0	24.7	
54 1,1-Dichloropropene	75	5.047	5.047	0.000	83	313157	25.0	24.0	
56 Isobutyl alcohol	43	5.230	5.230	0.000	94	491957	625.0	585.9	
55 Benzene	78	5.242	5.242	0.000	94	988484	25.0	24.9	
57 1,2-Dichloroethane	62	5.291	5.291	0.000	94	475717	25.0	24.1	
59 n-Heptane	43	5.449	5.449	0.000	95	637946	25.0	22.4	
60 Trichloroethene	95	5.856	5.856	0.000	94	253220	25.0	25.7	
62 Methylcyclohexane	83	5.996	5.996	0.000	91	386152	25.0	24.5	
63 1,2-Dichloropropane	63	6.082	6.082	0.000	89	324523	25.0	24.6	
64 Dibromomethane	93	6.209	6.209	0.000	95	157636	25.0	24.6	
66 1,4-Dioxane	88	6.228	6.228	0.000	51	47979	500.0	492.8	
67 Dichlorobromomethane	83	6.361	6.361	0.000	94	293907	25.0	24.4	
69 2-Chloroethyl vinyl ether	63	6.647	6.647	0.000	84	207588	25.0	23.8	
71 cis-1,3-Dichloropropene	75	6.787	6.787	0.000	82	374124	25.0	25.2	
72 4-Methyl-2-pentanone (MIBK)	58	6.927	6.927	0.000	98	884081	125.0	119.6	
73 Toluene	92	7.085	7.085	0.000	96	606476	25.0	23.7	
75 trans-1,3-Dichloropropene	75	7.347	7.347	0.000	90	338295	25.0	24.4	
77 Ethyl methacrylate	69	7.408	7.408	0.000	87	289621	25.0	23.6	
78 1,1,2-Trichloroethane	83	7.535	7.535	0.000	92	177406	25.0	24.9	
79 Tetrachloroethene	166	7.627	7.627	0.000	95	249558	25.0	23.0	
80 1,3-Dichloropropane	76	7.700	7.700	0.000	87	358545	25.0	23.4	
82 2-Hexanone	43	7.767	7.767	0.000	98	1726952	125.0	121.8	
83 Chlorodibromomethane	129	7.937	7.937	0.000	90	227625	25.0	25.1	
84 Ethylene Dibromide	107	8.040	8.040	0.000	97	217099	25.0	24.3	
85 Chlorobenzene	112	8.527	8.527	0.000	90	664189	25.0	23.8	
89 1,1,1,2-Tetrachloroethane	131	8.624	8.624	0.000	90	230608	25.0	24.5	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1140127	25.0	24.5	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	450077	25.0	25.1	
91 o-Xylene	106	9.178	9.178	0.000	97	447946	25.0	25.1	
92 Styrene	104	9.202	9.202	0.000	93	745023	25.0	24.9	
93 Bromoform	173	9.440	9.440	0.000	95	141371	25.0	23.8	
95 Isopropylbenzene	105	9.561	9.561	0.000	96	1177126	25.0	24.9	
97 Bromobenzene	156	9.896	9.896	0.000	90	288459	25.0	24.3	
98 1,1,2,2-Tetrachloroethane	83	9.932	9.932	0.000	95	284016	25.0	22.9	
99 1,2,3-Trichloropropane	110	9.969	9.969	0.000	94	87157	25.0	22.8	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	72	134219	25.0	24.8	
100 N-Propylbenzene	91	9.987	9.987	0.000	98	1305807	25.0	24.2	
102 2-Chlorotoluene	126	10.085	10.085	0.000	95	272397	25.0	25.0	
104 1,3,5-Trimethylbenzene	105	10.170	10.170	0.000	94	959470	25.0	24.6	
105 4-Chlorotoluene	91	10.194	10.194	0.000	98	906330	25.0	24.5	
106 tert-Butylbenzene	134	10.486	10.486	0.000	96	214373	25.0	25.2	
108 1,2,4-Trimethylbenzene	105	10.535	10.535	0.000	98	999137	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.693	10.693	0.000	95	1246570	25.0	25.7	
110 1,3-Dichlorobenzene	146	10.821	10.821	0.000	97	546566	25.0	24.5	
111 4-Isopropyltoluene	119	10.833	10.833	0.000	98	1059431	25.0	25.8	
113 1,4-Dichlorobenzene	146	10.906	10.906	0.000	93	554032	25.0	23.7	
115 n-Butylbenzene	91	11.216	11.216	0.000	98	911542	25.0	25.5	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	97	530861	25.0	24.8	
117 1,2-Dibromo-3-Chloropropan	75	11.977	11.977	0.000	76	50320	25.0	24.0	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	95	321075	25.0	25.6	
120 Hexachlorobutadiene	225	12.792	12.792	0.000	96	147169	25.0	24.7	
121 Naphthalene	128	12.877	12.877	0.000	95	856435	25.0	27.8	
122 1,2,3-Trichlorobenzene	180	13.084	13.084	0.000	95	266637	25.0	25.1	

Reagents:

8260 CORP mix_00101	Amount Added: 12.50	Units: uL	
GAS CORP mix_00226	Amount Added: 12.50	Units: uL	
N_8260_Surr_00273	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00075	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20170626-63590.b\\N9072.D

Injection Date: 26-Jun-2017 17:35:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: ICIS 5

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

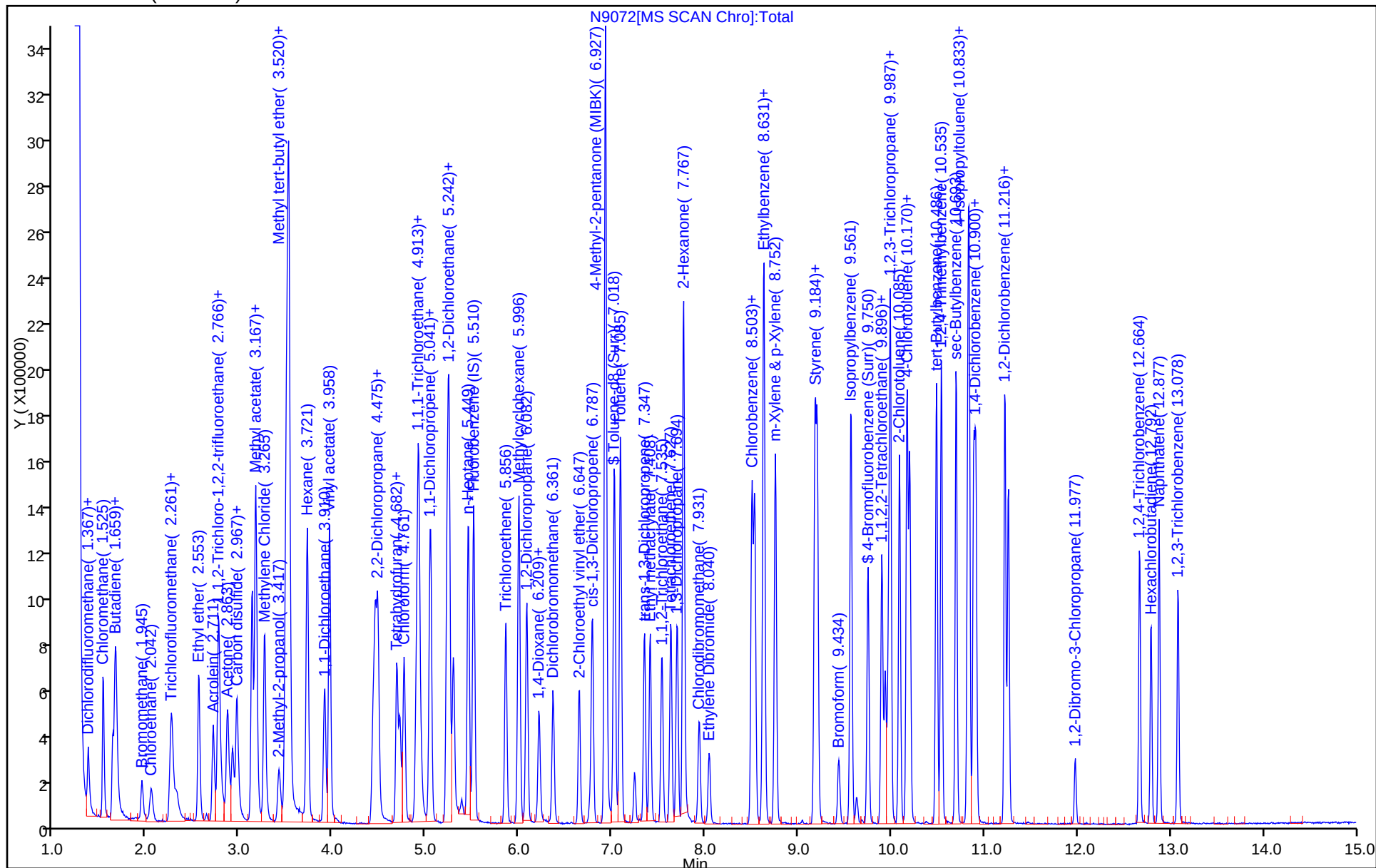
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9073.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 26-Jun-2017 18:01:30 ALS Bottle#: 18 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0063590-012
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 10:18:29 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK042

First Level Reviewer: sonkera

Date: 27-Jun-2017 01:01:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.510	5.510	0.000	97	202241	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.503	8.503	0.000	89	739727	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	94	355336	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.913	4.913	0.000	93	226494	25.0	25.6	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.218	5.218	0.000	0	331337	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	7.018	7.018	0.000	94	885274	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	90	298619	25.0	25.1	
11 Dichlorodifluoromethane	85	1.367	1.367	0.000	98	500454	50.0	49.7	
13 Chloromethane	50	1.525	1.525	0.000	99	1175598	50.0	51.0	
14 Vinyl chloride	62	1.628	1.634	-0.006	98	778315	50.0	49.0	
144 Butadiene	54	1.659	1.659	0.000	90	994574	50.0	51.7	
15 Bromomethane	94	1.939	1.945	-0.006	92	271789	50.0	60.5	
16 Chloroethane	64	2.042	2.042	0.000	96	347222	50.0	54.4	
17 Dichlorofluoromethane	67	2.249	2.255	-0.006	96	796487	50.0	52.1	
18 Trichlorofluoromethane	101	2.267	2.267	0.000	97	708769	50.0	52.8	
19 Ethyl ether	59	2.553	2.553	0.000	94	788872	50.0	49.8	
20 Acrolein	56	2.705	2.711	-0.006	99	852450	250.0	257.7	
22 1,1-Dichloroethene	96	2.766	2.766	0.000	88	433055	50.0	50.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.772	2.766	0.006	47	398690	50.0	48.5	
23 Acetone	43	2.857	2.863	-0.006	98	1550009	250.0	237.1	
24 Iodomethane	142	2.918	2.918	0.000	98	763203	50.0	54.1	
25 Carbon disulfide	76	2.961	2.967	-0.006	98	1482075	50.0	50.6	
27 3-Chloro-1-propene	41	3.125	3.131	-0.006	86	1616175	50.0	49.1	
28 Methyl acetate	43	3.161	3.167	-0.006	99	4656841	250.0	268.3	
30 Methylene Chloride	84	3.259	3.259	0.000	87	511241	50.0	46.8	
31 2-Methyl-2-propanol	59	3.411	3.417	-0.006	96	703489	500.0	530.4	M
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	92	1704011	50.0	53.5	
33 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	87	494689	50.0	50.4	
34 Acrylonitrile	53	3.520	3.520	0.000	99	4668947	500.0	526.8	
35 Hexane	57	3.721	3.721	0.000	96	1183031	50.0	47.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.904	3.910	-0.006	96	1212930	50.0	50.6	
39 Vinyl acetate	43	3.958	3.958	0.000	96	4324414	100.0	110.4	
42 2,2-Dichloropropane	77	4.433	4.427	0.006	82	491109	50.0	46.0	
43 cis-1,2-Dichloroethene	96	4.457	4.451	0.006	88	575400	50.0	52.9	
44 2-Butanone (MEK)	43	4.475	4.482	-0.007	96	2754625	250.0	270.5	
47 Chlorobromomethane	128	4.682	4.682	0.000	83	282896	50.0	53.2	
49 Tetrahydrofuran	42	4.713	4.719	-0.006	92	733398	100.0	101.4	
50 Chloroform	83	4.761	4.761	0.000	93	881765	50.0	49.5	
51 1,1,1-Trichloroethane	97	4.895	4.895	0.000	95	684126	50.0	49.8	
52 Cyclohexane	56	4.920	4.920	0.000	92	1374138	50.0	49.7	
53 Carbon tetrachloride	117	5.041	5.041	0.000	96	627784	50.0	51.0	
54 1,1-Dichloropropene	75	5.047	5.047	0.000	86	659288	50.0	49.6	
56 Isobutyl alcohol	43	5.224	5.230	-0.006	96	1168434	1250.0	1364.6	
55 Benzene	78	5.242	5.242	0.000	93	2056914	50.0	50.8	
57 1,2-Dichloroethane	62	5.291	5.291	0.000	94	1008830	50.0	50.1	
59 n-Heptane	43	5.449	5.449	0.000	96	1331064	50.0	45.9	M
60 Trichloroethene	95	5.850	5.856	-0.006	91	511528	50.0	51.0	
62 Methylcyclohexane	83	5.996	5.996	0.000	91	810481	50.0	50.4	
63 1,2-Dichloropropane	63	6.082	6.082	0.000	89	697783	50.0	51.9	
64 Dibromomethane	93	6.209	6.209	0.000	95	341100	50.0	52.2	
66 1,4-Dioxane	88	6.221	6.228	-0.007	86	112920	1000.0	1144.1	M
67 Dichlorobromomethane	83	6.361	6.361	0.000	94	658264	50.0	53.5	
69 2-Chloroethyl vinyl ether	63	6.641	6.647	-0.006	85	473265	50.0	53.2	
71 cis-1,3-Dichloropropene	75	6.781	6.787	-0.006	83	830658	50.0	54.9	
72 4-Methyl-2-pentanone (MIBK)	58	6.927	6.927	0.000	98	1950682	250.0	260.4	
73 Toluene	92	7.085	7.085	0.000	97	1310818	50.0	50.5	
75 trans-1,3-Dichloropropene	75	7.341	7.347	-0.006	90	765911	50.0	54.4	
77 Ethyl methacrylate	69	7.408	7.408	0.000	87	674087	50.0	54.1	
78 1,1,2-Trichloroethane	83	7.536	7.535	0.001	94	373856	50.0	51.8	
79 Tetrachloroethene	166	7.627	7.627	0.000	96	549164	50.0	50.0	
80 1,3-Dichloropropane	76	7.694	7.700	-0.006	88	792594	50.0	51.1	
82 2-Hexanone	43	7.767	7.767	0.000	99	3751761	250.0	261.1	
83 Chlorodibromomethane	129	7.937	7.937	0.000	89	514059	50.0	55.8	
84 Ethylene Dibromide	107	8.040	8.040	0.000	99	487727	50.0	53.8	
85 Chlorobenzene	112	8.527	8.527	0.000	91	1416238	50.0	50.1	
89 1,1,1,2-Tetrachloroethane	131	8.624	8.624	0.000	91	521060	50.0	54.7	
88 Ethylbenzene	91	8.631	8.631	0.000	98	2406842	50.0	50.9	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	928303	50.0	51.1	
91 o-Xylene	106	9.178	9.178	0.000	98	946582	50.0	52.2	
92 Styrene	104	9.202	9.202	0.000	93	1620300	50.0	53.5	
93 Bromoform	173	9.434	9.440	-0.006	95	323434	50.0	53.7	
95 Isopropylbenzene	105	9.567	9.561	0.006	96	2465419	50.0	52.6	
97 Bromobenzene	156	9.896	9.896	0.000	90	594595	50.0	50.4	
98 1,1,2,2-Tetrachloroethane	83	9.932	9.932	0.000	94	609398	50.0	49.5	
99 1,2,3-Trichloropropane	110	9.969	9.969	0.000	93	195887	50.0	51.5	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	79	311235	50.0	58.0	
100 N-Propylbenzene	91	9.987	9.987	0.000	99	2816828	50.0	52.5	
102 2-Chlorotoluene	126	10.085	10.085	0.001	95	557747	50.0	51.6	
104 1,3,5-Trimethylbenzene	105	10.170	10.170	0.000	94	2037209	50.0	52.7	
105 4-Chlorotoluene	91	10.194	10.194	0.000	98	1901281	50.0	51.8	
106 tert-Butylbenzene	134	10.486	10.486	0.000	96	435555	50.0	51.6	
108 1,2,4-Trimethylbenzene	105	10.535	10.535	0.000	98	2100207	50.0	53.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.693	10.693	0.000	95	2537948	50.0	52.8	
110 1,3-Dichlorobenzene	146	10.821	10.821	0.000	98	1150597	50.0	52.0	
111 4-Isopropyltoluene	119	10.833	10.833	0.000	98	2209096	50.0	54.2	
113 1,4-Dichlorobenzene	146	10.906	10.906	0.000	87	1170583	50.0	50.4	M
115 n-Butylbenzene	91	11.222	11.216	0.006	98	1871803	50.0	52.7	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	97	1109177	50.0	52.1	
117 1,2-Dibromo-3-Chloropropan	75	11.970	11.977	-0.006	76	110414	50.0	53.1	M
119 1,2,4-Trichlorobenzene	180	12.670	12.664	0.006	95	675447	50.0	54.2	
120 Hexachlorobutadiene	225	12.792	12.792	0.000	97	285226	50.0	48.3	
121 Naphthalene	128	12.877	12.877	0.000	97	1822520	50.0	59.5	
122 1,2,3-Trichlorobenzene	180	13.078	13.084	-0.006	94	543954	50.0	51.5	
S 125 Total BTEX	1				0			255.6	
S 126 Xylenes, Total	1				0			103.4	
S 123 1,3-Dichloropropene, Total	1				0			109.3	
S 124 1,2-Dichloroethene, Total	1				0			103.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00101

Amount Added: 25.00

Units: uL

GAS CORP mix_00226

Amount Added: 25.00

Units: uL

N_8260_Surr_00273

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00075

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20170626-63590.b\\N9073.D

Injection Date: 26-Jun-2017 18:01:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 6

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

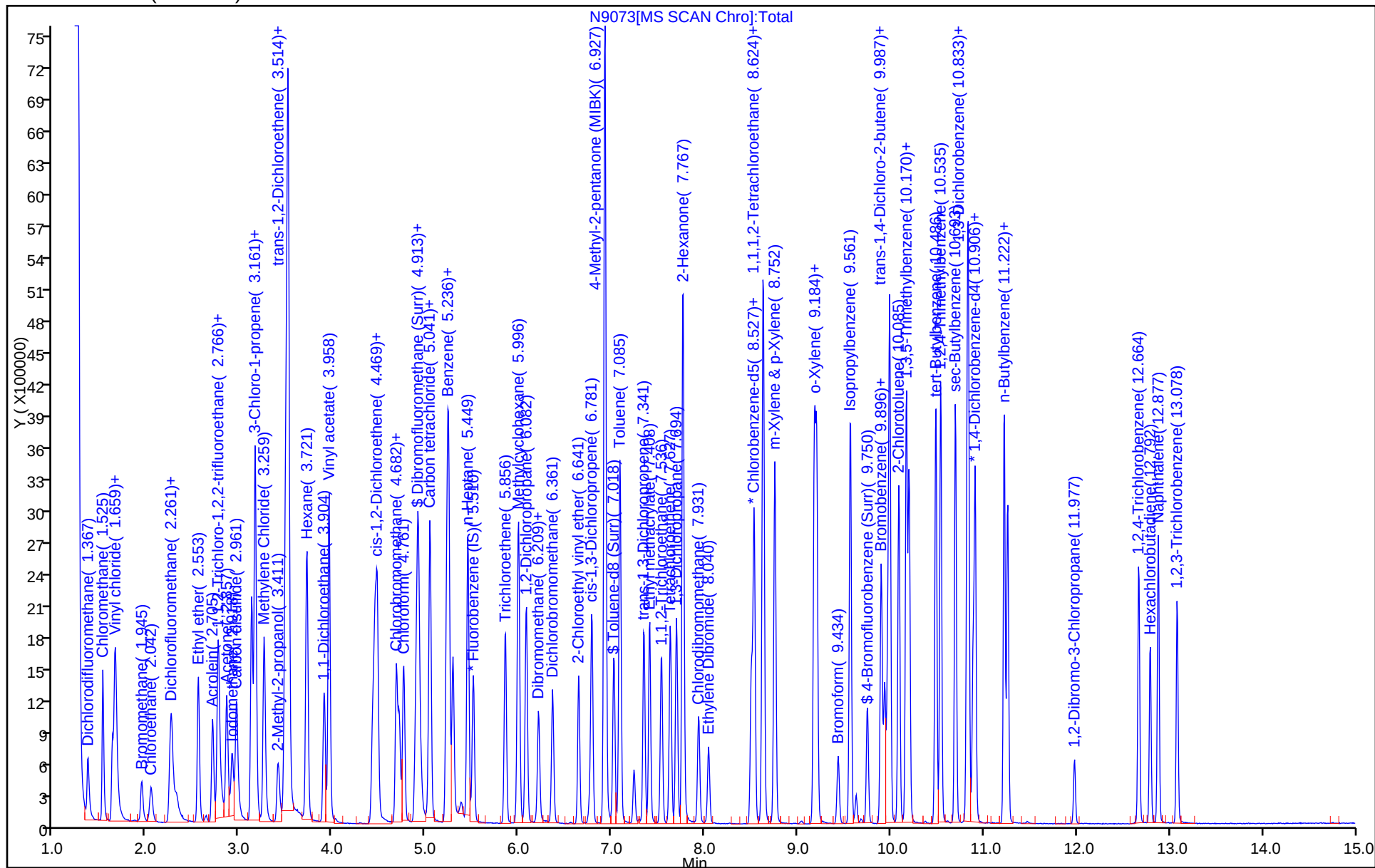
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9073.D

Injection Date: 26-Jun-2017 18:01:30

Instrument ID: HP5973N

Lims ID: IC 6

Client ID:

Operator ID: LH

ALS Bottle#:

18

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

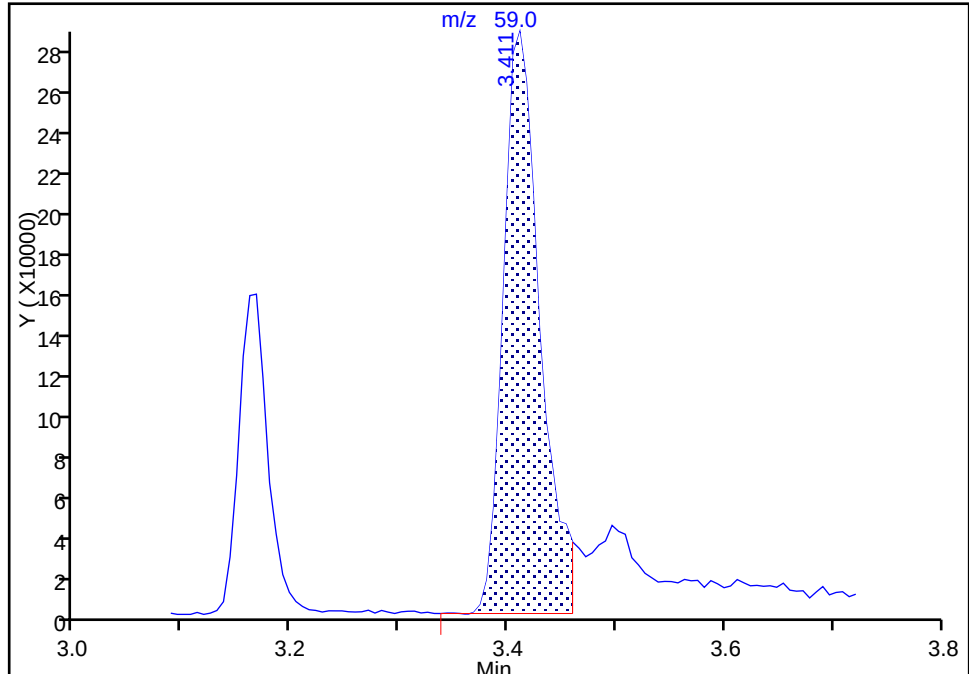
Detector: MS SCAN

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

Signal: 1

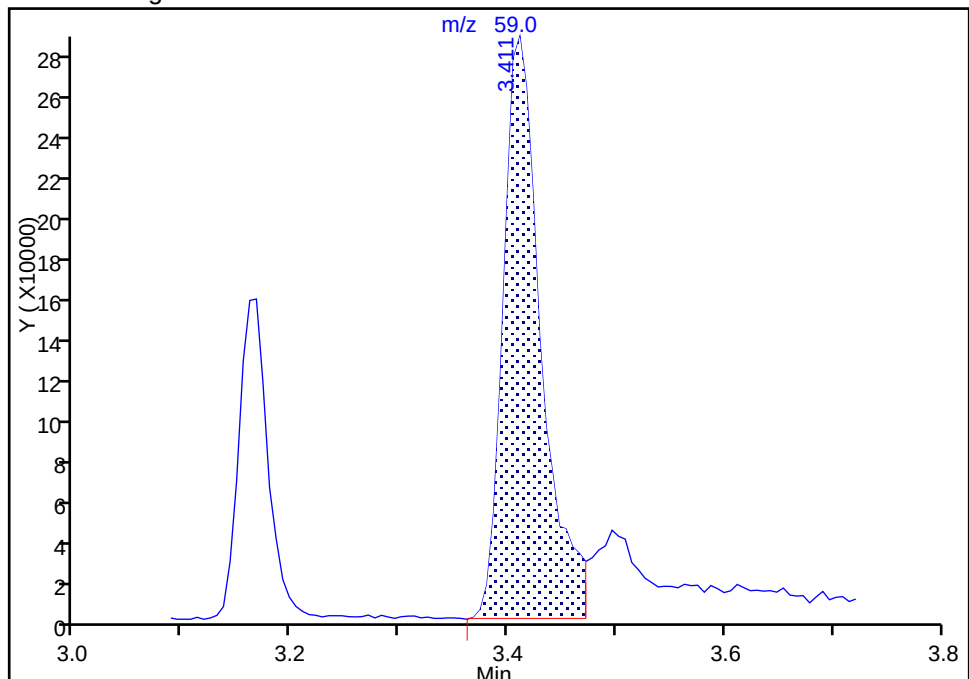
RT: 3.41
Area: 681485
Amount: 495.8109
Amount Units: ug/L

Processing Integration Results



RT: 3.41
Area: 703489
Amount: 530.4208
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 01:01:56

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9073.D

Injection Date: 26-Jun-2017 18:01:30

Instrument ID: HP5973N

Lims ID: IC 6

Client ID:

Operator ID: LH

ALS Bottle#:

18

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

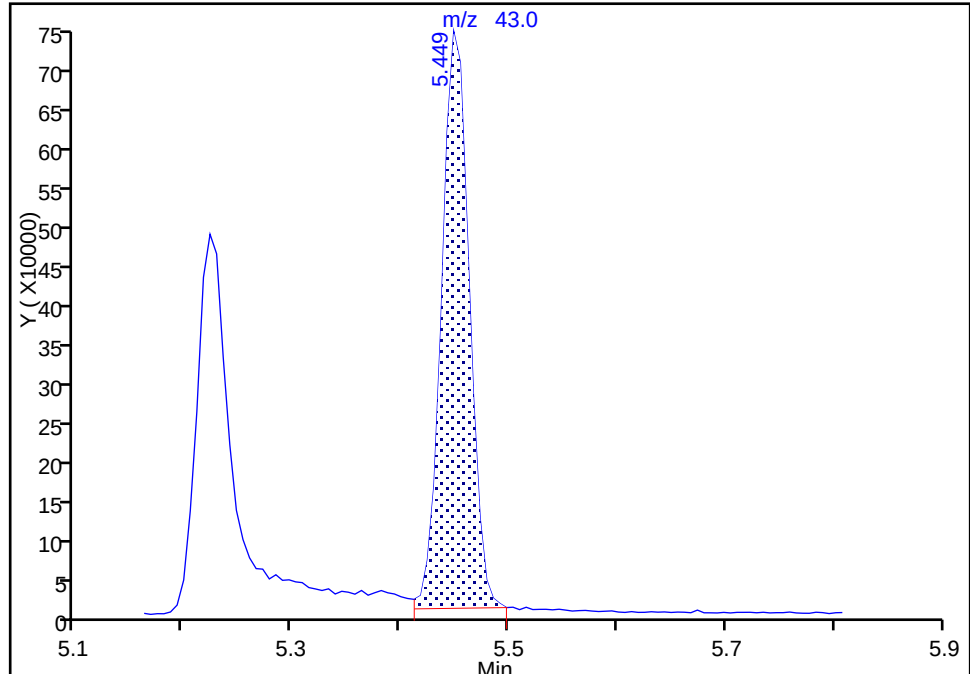
Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

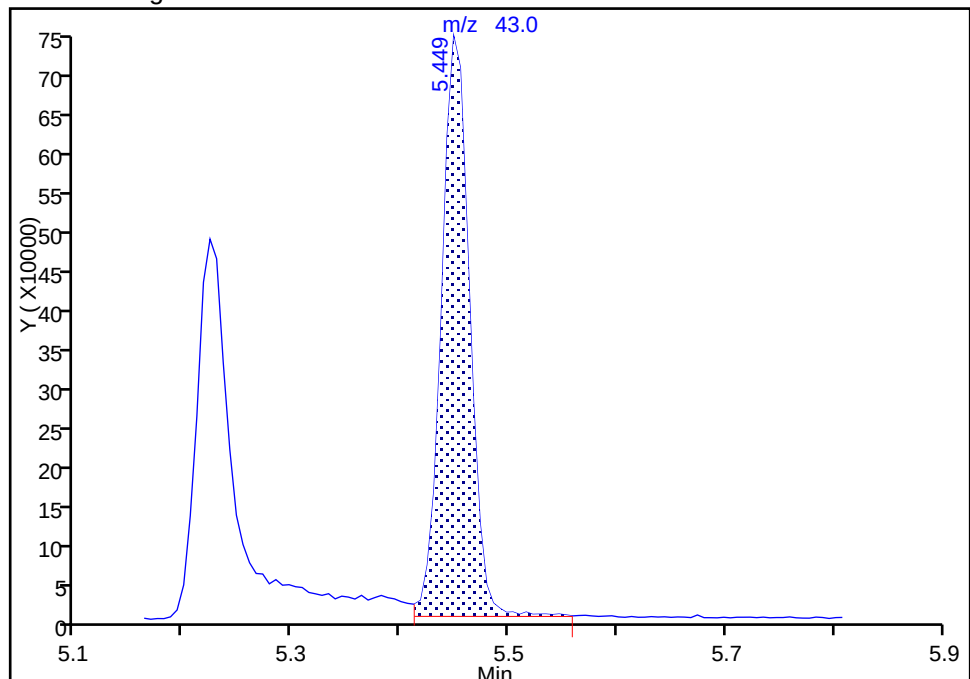
RT: 5.45
Area: 1297444
Amount: 44.895957
Amount Units: ug/L

Processing Integration Results



RT: 5.45
Area: 1331064
Amount: 45.925751
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 01:04:43

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9073.D

Injection Date: 26-Jun-2017 18:01:30

Instrument ID: HP5973N

Lims ID: IC 6

Client ID:

Operator ID: LH

ALS Bottle#: 18

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

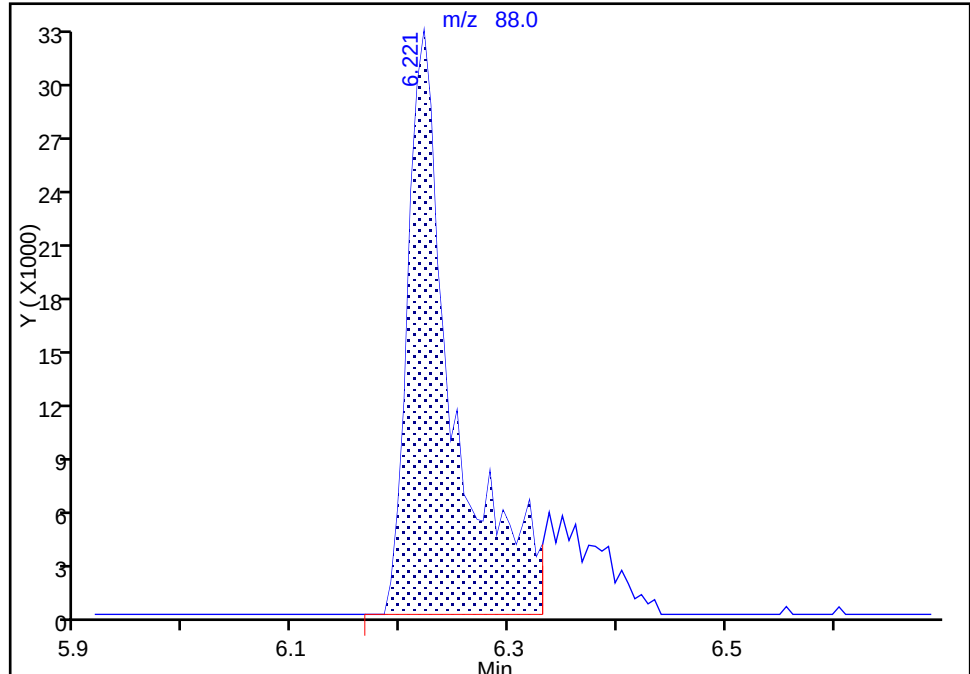
Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

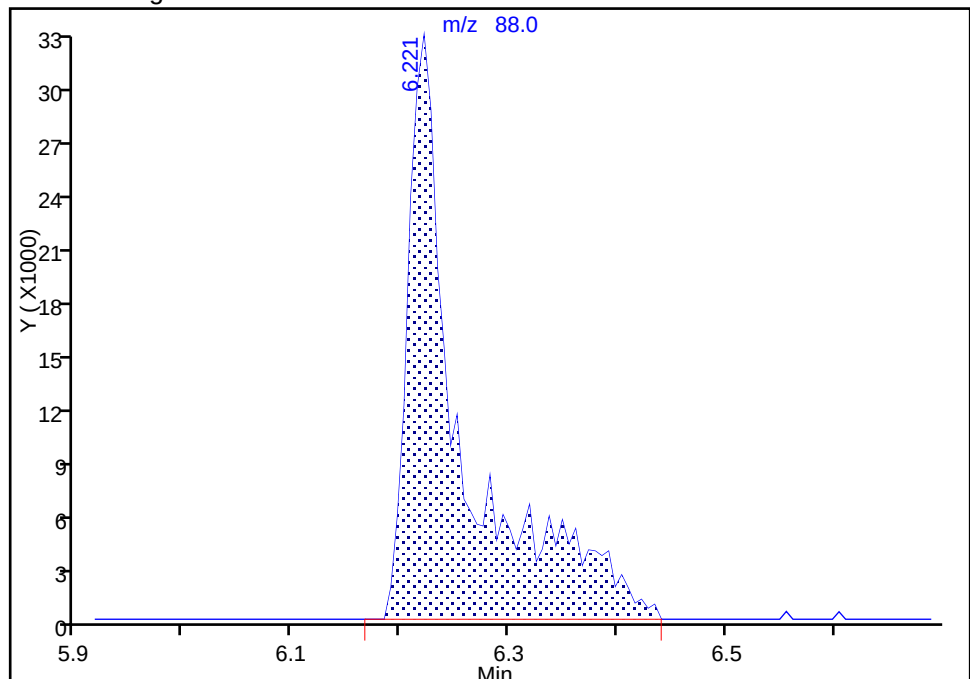
RT: 6.22
Area: 94102
Amount: 979.8485
Amount Units: ug/L

Processing Integration Results



RT: 6.22
Area: 112920
Amount: 1144.0677
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 01:05:03

Audit Action: Manually Integrated

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9073.D

Injection Date: 26-Jun-2017 18:01:30

Instrument ID: HP5973N

Lims ID: IC 6

Client ID:

Operator ID: LH

ALS Bottle#:

18

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

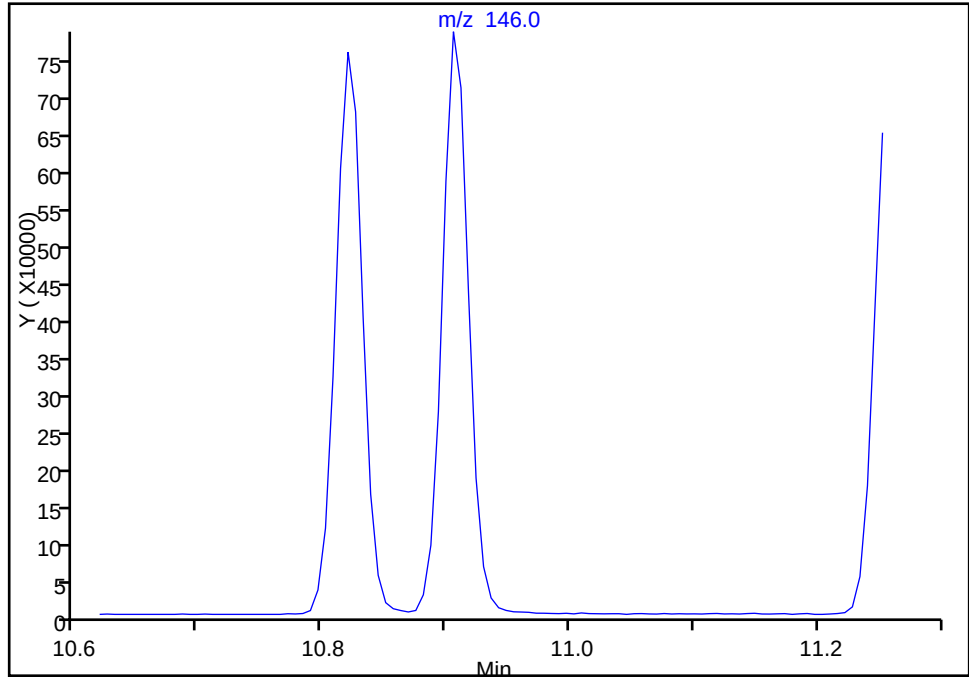
113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

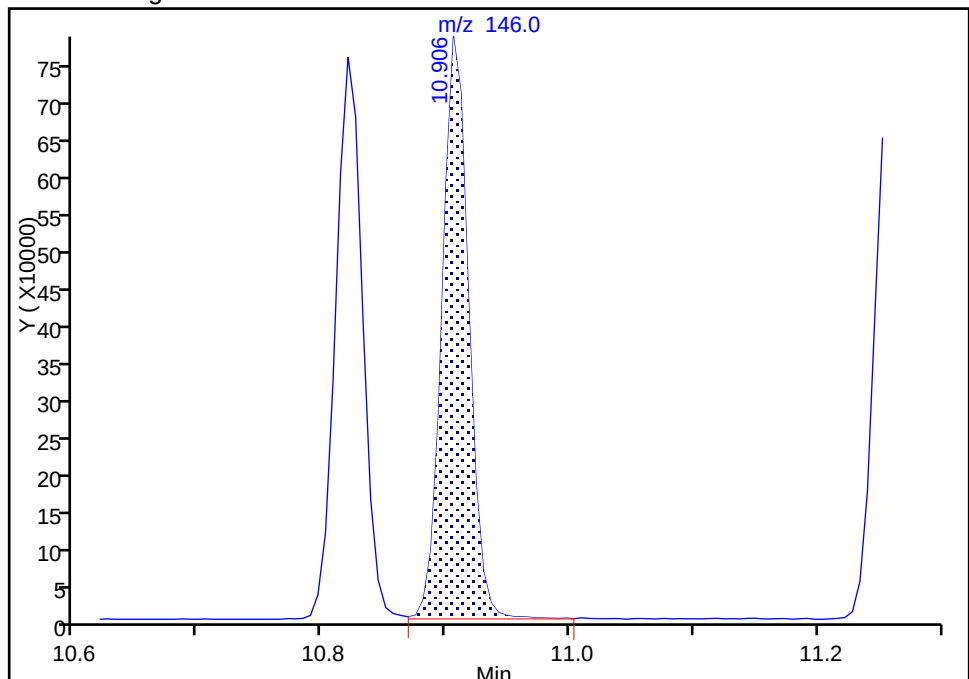
Not Detected

Expected RT: 10.91

Processing Integration Results



Manual Integration Results



RT: 10.91

Area: 1170583

Amount: 50.408742

Amount Units: ug/L

Reviewer: sonkera, 27-Jun-2017 01:05:29

Audit Action: Assigned Compound ID

Audit Reason: Peak Tail

TestAmerica Buffalo

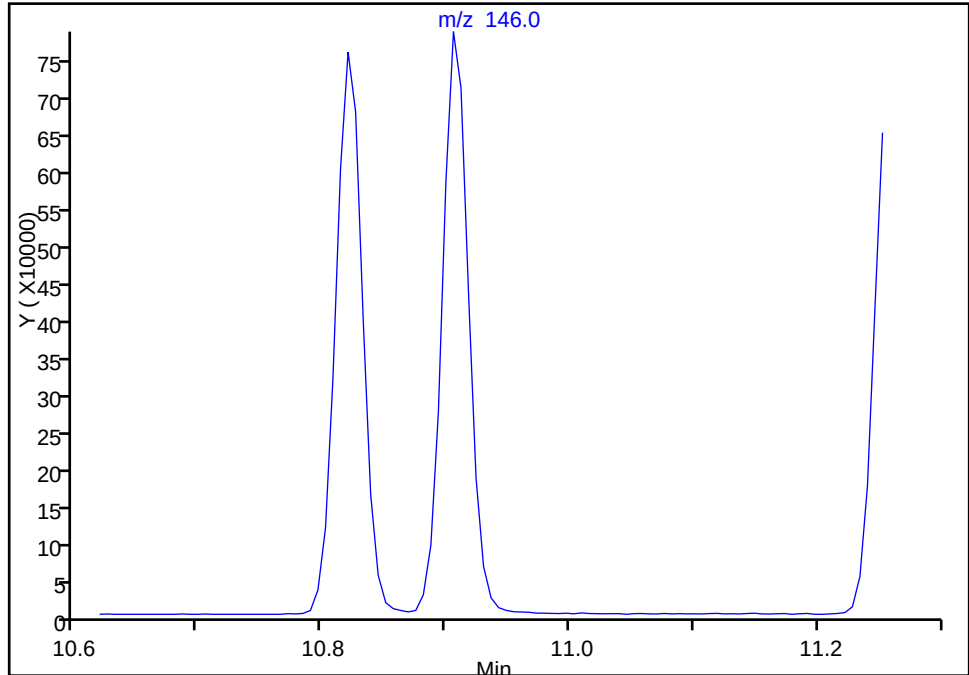
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9073.D
Injection Date: 26-Jun-2017 18:01:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 18 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

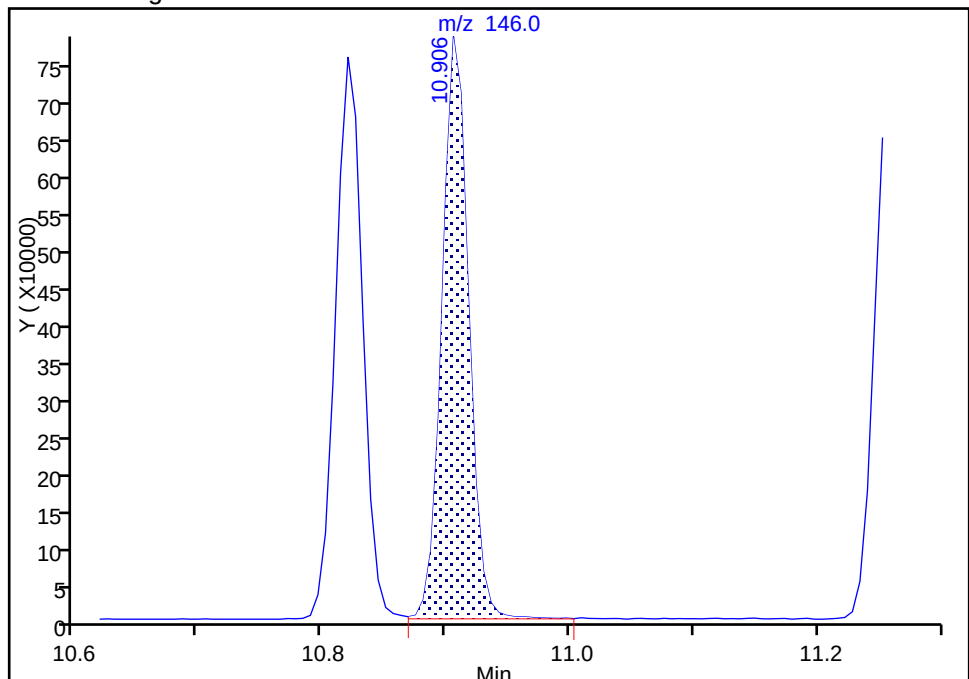
Not Detected
Expected RT: 10.91

Processing Integration Results



RT: 10.91
Area: 1170583
Amount: 50.408742
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 01:06:07

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

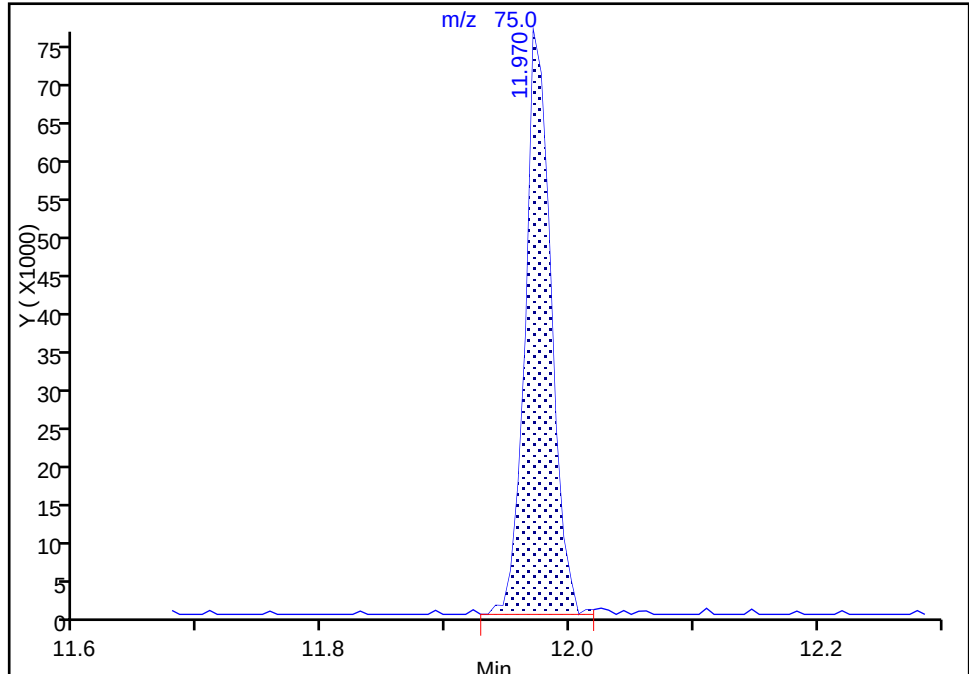
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9073.D
Injection Date: 26-Jun-2017 18:01:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 18 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 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

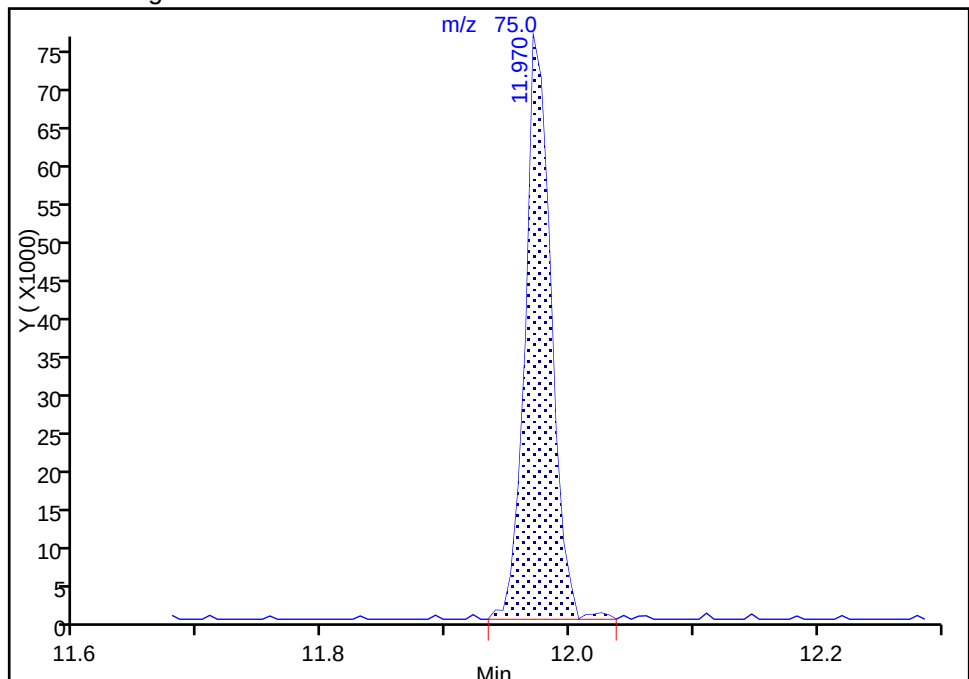
RT: 11.97
Area: 109916
Amount: 48.705330
Amount Units: ug/L

Processing Integration Results



RT: 11.97
Area: 110414
Amount: 53.098954
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 01:06:24
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 297 of 422

07/03/2017

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9074.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 26-Jun-2017 18:28:30 ALS Bottle#: 19 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0063590-013
 Operator ID: LH Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 10:18:34 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK042

First Level Reviewer: sonkera

Date: 27-Jun-2017 01:07:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.510	5.510	0.000	97	204918	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.503	8.503	0.000	90	766160	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	95	338438	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.913	4.913	0.000	91	233900	25.0	26.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.224	5.218	0.006	0	325815	25.0	24.3	
\$ 6 Toluene-d8 (Surr)	98	7.024	7.018	0.006	95	901911	25.0	24.4	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	90	302590	25.0	24.6	
11 Dichlorodifluoromethane	85	1.367	1.367	0.000	98	1113829	100.0	109.2	M
13 Chloromethane	50	1.531	1.525	0.006	99	2373376	100.0	101.5	
14 Vinyl chloride	62	1.634	1.634	0.000	97	1665472	100.0	103.4	
144 Butadiene	54	1.659	1.659	0.000	90	2088301	100.0	107.1	
15 Bromomethane	94	1.951	1.945	0.006	92	484305	100.0	106.4	
16 Chloroethane	64	2.048	2.042	0.006	95	624126	100.0	96.6	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	96	1599550	100.0	103.3	
18 Trichlorofluoromethane	101	2.273	2.267	0.006	96	1437263	100.0	105.7	
19 Ethyl ether	59	2.553	2.553	0.000	94	1575109	100.0	98.2	
20 Acrolein	56	2.711	2.711	0.000	100	1639588	500.0	489.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.772	2.766	0.006	48	864723	100.0	103.8	
22 1,1-Dichloroethene	96	2.772	2.766	0.006	88	924220	100.0	107.2	
23 Acetone	43	2.857	2.863	-0.006	98	2930067	500.0	442.3	
24 Iodomethane	142	2.918	2.918	0.000	99	1495161	100.0	104.6	
25 Carbon disulfide	76	2.967	2.967	0.000	98	3171476	100.0	106.8	
27 3-Chloro-1-propene	41	3.131	3.131	0.000	87	3352167	100.0	100.5	
28 Methyl acetate	43	3.167	3.167	0.000	99	9221744	500.0	524.4	
30 Methylene Chloride	84	3.265	3.259	0.006	87	996706	100.0	90.0	
31 2-Methyl-2-propanol	59	3.411	3.417	-0.006	97	1359203	1000.0	1011.4	M
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	93	3351045	100.0	103.8	
33 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	87	1014770	100.0	102.1	
34 Acrylonitrile	53	3.520	3.520	0.000	100	9101930	1000.0	1013.6	
35 Hexane	57	3.721	3.721	0.000	96	2696552	100.0	106.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.910	3.910	0.000	96	2482929	100.0	102.3	
39 Vinyl acetate	43	3.958	3.958	0.000	96	9299644	200.0	234.3	
42 2,2-Dichloropropane	77	4.433	4.427	0.006	83	970689	100.0	89.7	
43 cis-1,2-Dichloroethene	96	4.457	4.451	0.006	88	1146494	100.0	104.1	
44 2-Butanone (MEK)	43	4.475	4.482	-0.007	96	5429803	500.0	526.3	
47 Chlorobromomethane	128	4.682	4.682	0.000	83	570181	100.0	105.8	
49 Tetrahydrofuran	42	4.713	4.719	-0.006	92	1441690	200.0	196.7	
50 Chloroform	83	4.761	4.761	0.000	94	1777695	100.0	98.5	
51 1,1,1-Trichloroethane	97	4.895	4.895	0.000	94	1421611	100.0	102.2	
52 Cyclohexane	56	4.920	4.920	0.000	91	3089221	100.0	110.2	
53 Carbon tetrachloride	117	5.041	5.041	0.000	96	1361023	100.0	109.1	
54 1,1-Dichloropropene	75	5.047	5.047	0.000	85	1395178	100.0	103.5	
56 Isobutyl alcohol	43	5.224	5.230	-0.006	93	2389924	2500.0	2754.7	M
55 Benzene	78	5.242	5.242	0.000	94	4258489	100.0	103.7	
57 1,2-Dichloroethane	62	5.291	5.291	0.000	94	1993500	100.0	97.7	
59 n-Heptane	43	5.455	5.449	0.006	96	2963857	100.0	100.9	
60 Trichloroethene	95	5.856	5.856	0.000	93	1087714	100.0	107.0	
62 Methylcyclohexane	83	5.996	5.996	0.000	91	1787949	100.0	109.7	
63 1,2-Dichloropropane	63	6.081	6.082	-0.001	89	1426019	100.0	104.6	
64 Dibromomethane	93	6.209	6.209	0.000	96	685834	100.0	103.6	
66 1,4-Dioxane	88	6.221	6.228	-0.007	61	219913	2000.0	2151.2	
67 Dichlorobromomethane	83	6.361	6.361	0.000	95	1369533	100.0	109.9	
69 2-Chloroethyl vinyl ether	63	6.641	6.647	-0.006	86	1045733	100.0	116.0	
71 cis-1,3-Dichloropropene	75	6.787	6.787	0.000	83	1783535	100.0	116.3	
72 4-Methyl-2-pentanone (MIBK)	58	6.927	6.927	0.000	97	4060576	500.0	523.4	
73 Toluene	92	7.085	7.085	0.000	96	2692331	100.0	100.2	
75 trans-1,3-Dichloropropene	75	7.347	7.347	0.000	90	1624135	100.0	111.4	
77 Ethyl methacrylate	69	7.408	7.408	0.000	87	1457312	100.0	113.0	
78 1,1,2-Trichloroethane	83	7.535	7.535	0.000	93	774148	100.0	103.5	
79 Tetrachloroethene	166	7.633	7.627	0.006	96	1163724	100.0	102.4	
80 1,3-Dichloropropane	76	7.694	7.700	-0.006	88	1668338	100.0	103.8	
82 2-Hexanone	43	7.767	7.767	0.000	98	8133532	500.0	546.5	
83 Chlorodibromomethane	129	7.931	7.937	-0.006	89	1086260	100.0	113.9	
84 Ethylene Dibromide	107	8.040	8.040	0.000	98	1016058	100.0	108.2	
85 Chlorobenzene	112	8.533	8.527	0.006	90	2933962	100.0	100.3	
89 1,1,1,2-Tetrachloroethane	131	8.624	8.624	0.000	93	1075130	100.0	108.9	
88 Ethylbenzene	91	8.631	8.631	-0.001	98	5065586	100.0	103.5	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	1958150	100.0	104.2	
91 o-Xylene	106	9.178	9.178	0.000	98	1882633	100.0	100.3	
92 Styrene	104	9.202	9.202	0.000	93	3338971	100.0	106.4	
93 Bromoform	173	9.434	9.440	-0.006	97	684195	100.0	109.7	
95 Isopropylbenzene	105	9.567	9.561	0.006	96	4985232	100.0	111.7	
97 Bromobenzene	156	9.896	9.896	0.000	91	1201647	100.0	107.0	
98 1,1,2,2-Tetrachloroethane	83	9.932	9.932	0.000	96	1227254	100.0	104.7	
99 1,2,3-Trichloropropane	110	9.969	9.969	0.000	92	404192	100.0	111.7	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	82	669943	100.0	131.1	
100 N-Propylbenzene	91	9.993	9.987	0.006	99	5636228	100.0	110.3	
102 2-Chlorotoluene	126	10.091	10.085	0.007	95	1083324	100.0	105.3	
104 1,3,5-Trimethylbenzene	105	10.170	10.170	0.000	95	3810673	100.0	103.5	
105 4-Chlorotoluene	91	10.200	10.194	0.006	99	3808878	100.0	108.9	
106 tert-Butylbenzene	134	10.486	10.486	0.000	95	797234	100.0	99.1	
108 1,2,4-Trimethylbenzene	105	10.535	10.535	0.000	98	3960592	100.0	105.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.699	10.693	0.006	95	4716403	100.0	103.0	
110 1,3-Dichlorobenzene	146	10.821	10.821	0.000	97	2184006	100.0	103.6	
111 4-Isopropyltoluene	119	10.839	10.833	0.006	99	4096351	100.0	105.6	
113 1,4-Dichlorobenzene	146	10.906	10.906	0.000	93	2255695	100.0	102.0	M
115 n-Butylbenzene	91	11.222	11.216	0.006	99	3373341	100.0	99.7	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	97	2087824	100.0	103.0	
117 1,2-Dibromo-3-Chloropropan	75	11.976	11.977	0.000	77	226022	100.0	114.1	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	95	1271481	100.0	107.2	
120 Hexachlorobutadiene	225	12.792	12.792	0.000	97	502147	100.0	89.2	
121 Naphthalene	128	12.877	12.877	0.000	97	3650182	100.0	125.2	
122 1,2,3-Trichlorobenzene	180	13.084	13.084	0.000	96	1117295	100.0	111.2	
S 123 1,3-Dichloropropene, Total	1				0			227.7	
S 124 1,2-Dichloroethene, Total	1				0			206.2	
S 125 Total BTEX	1				0			511.9	
S 126 Xylenes, Total	1				0			204.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00101

Amount Added: 50.00

Units: uL

GAS CORP mix_00226

Amount Added: 50.00

Units: uL

N_8260_Surr_00273

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00075

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20170626-63590.b\\N9074.D

Injection Date: 26-Jun-2017 18:28:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: IC 7

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

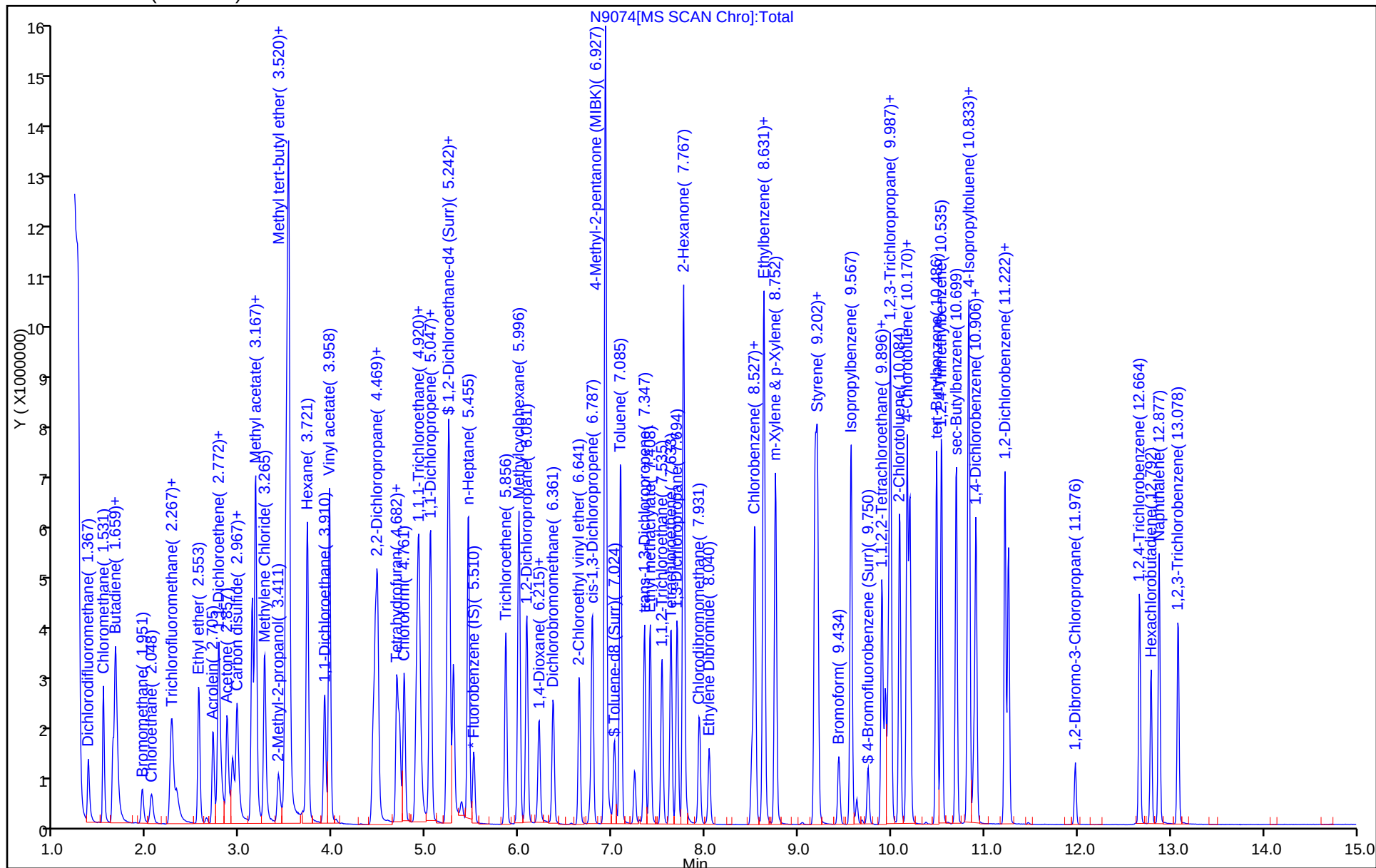
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

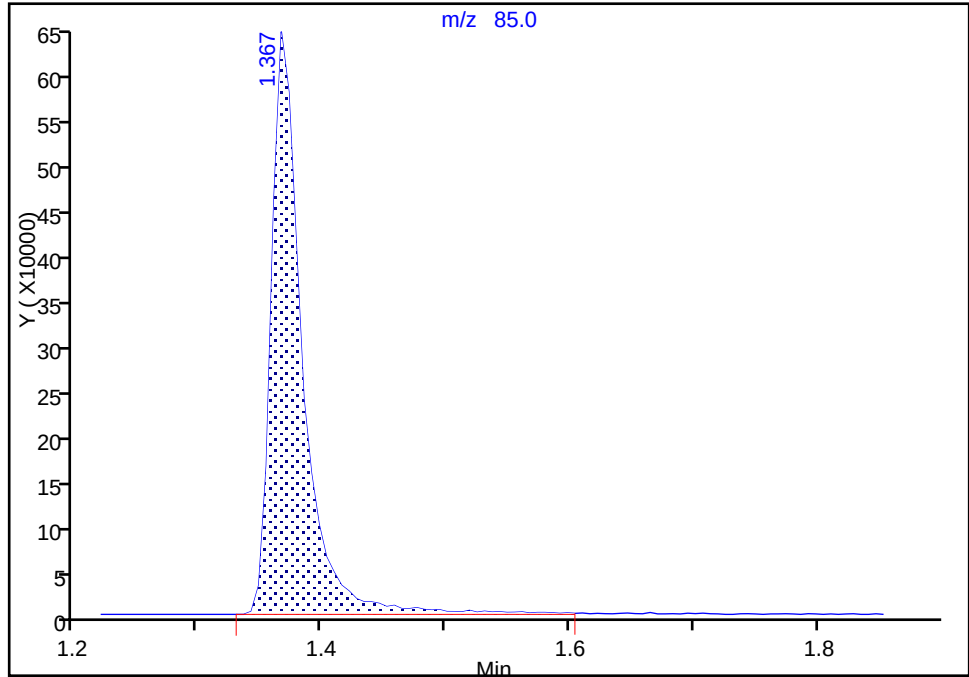
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9074.D
Injection Date: 26-Jun-2017 18:28:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 19 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

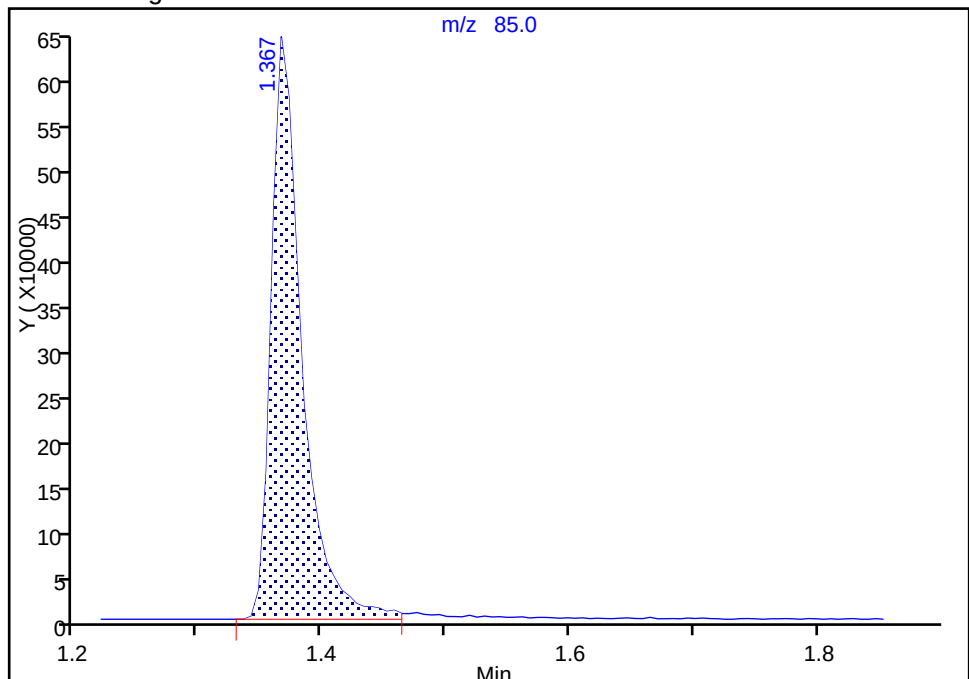
RT: 1.37
Area: 1140002
Amount: 111.3660
Amount Units: ug/L

Processing Integration Results



RT: 1.37
Area: 1113829
Amount: 109.1581
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 01:08:06

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9074.D

Injection Date: 26-Jun-2017 18:28:30

Instrument ID: HP5973N

Lims ID: IC 7

Client ID:

Operator ID: LH

ALS Bottle#:

19

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

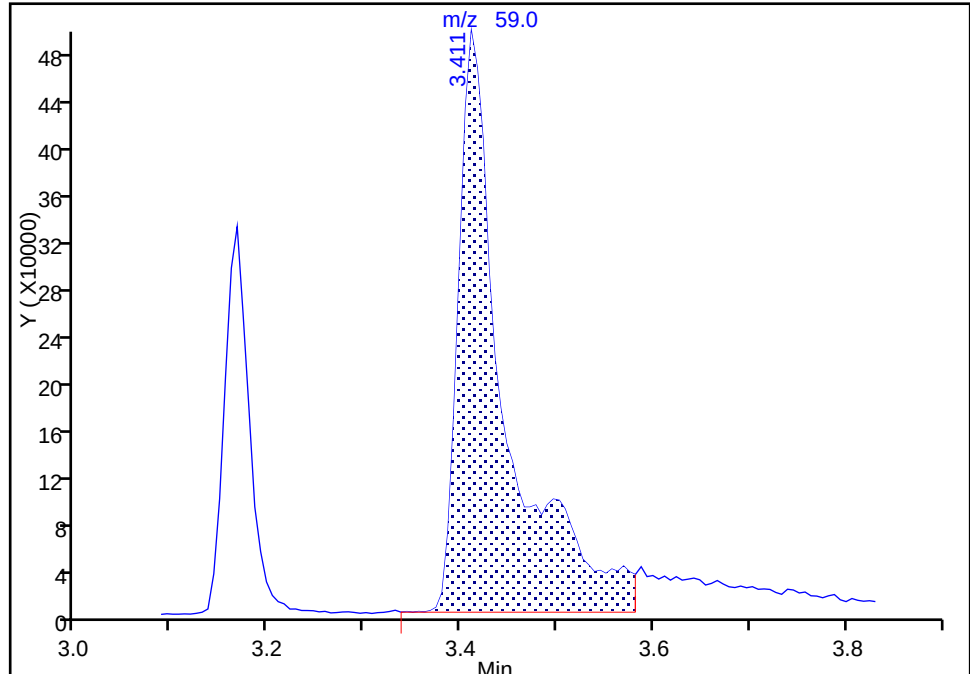
MS SCAN

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

Signal: 1

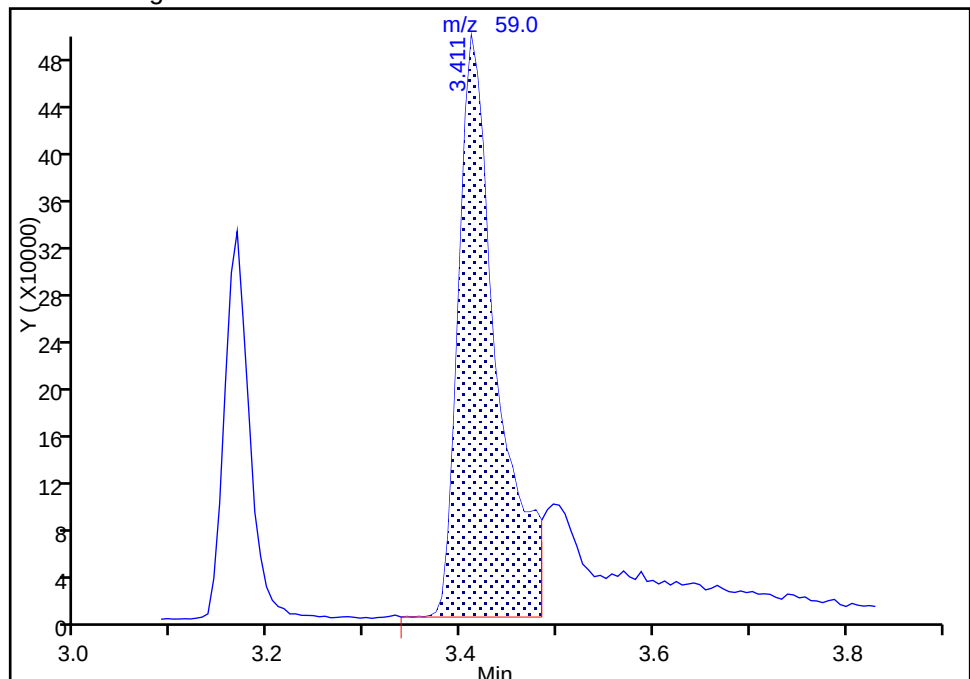
RT: 3.41
Area: 1673576
Amount: 1196.9049
Amount Units: ug/L

Processing Integration Results



RT: 3.41
Area: 1359203
Amount: 1011.4320
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 01:09:24

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9074.D

Injection Date: 26-Jun-2017 18:28:30

Instrument ID: HP5973N

Lims ID: IC 7

Client ID:

Operator ID: LH

ALS Bottle#: 19

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

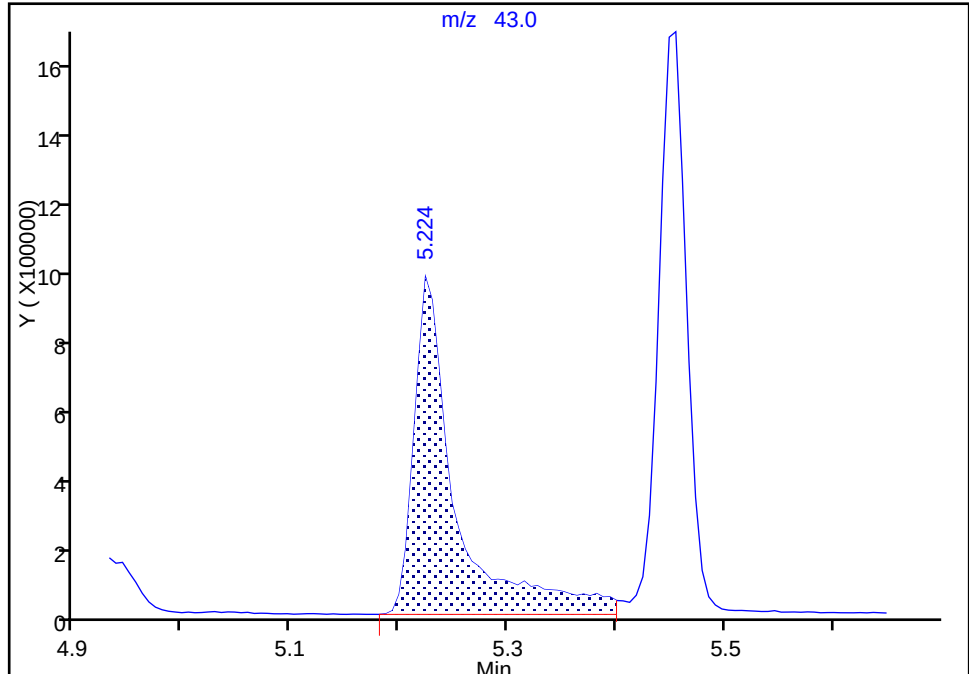
Detector: MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

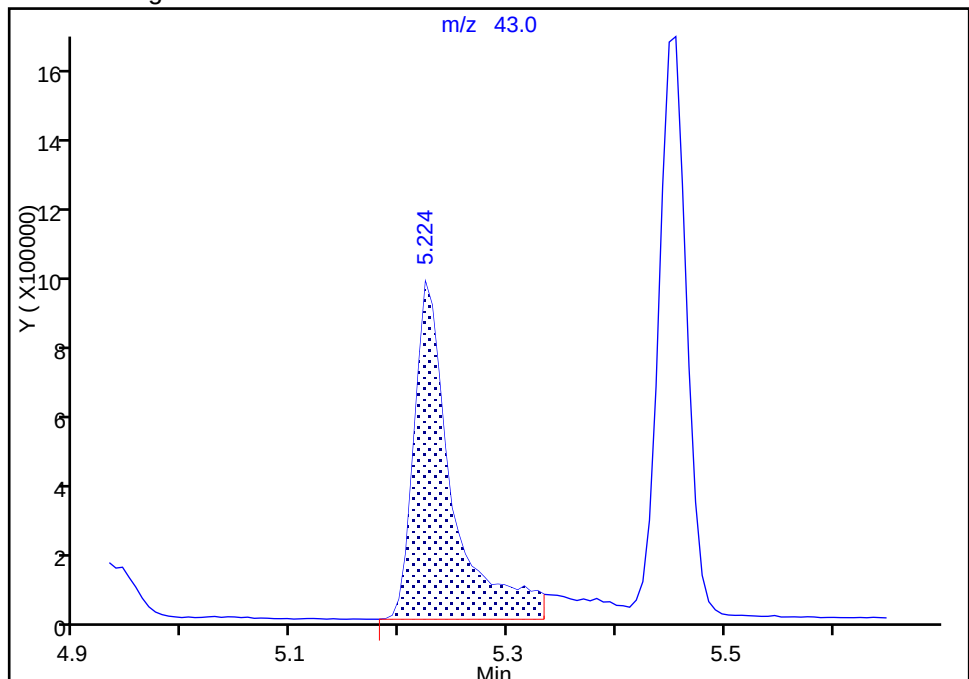
RT: 5.22
Area: 2620506
Amount: 3061.9162
Amount Units: ug/L

Processing Integration Results



RT: 5.22
Area: 2389924
Amount: 2754.7482
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 01:10:43

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9074.D

Injection Date: 26-Jun-2017 18:28:30

Instrument ID: HP5973N

Lims ID: IC 7

Client ID:

Operator ID: LH

ALS Bottle#:

19

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

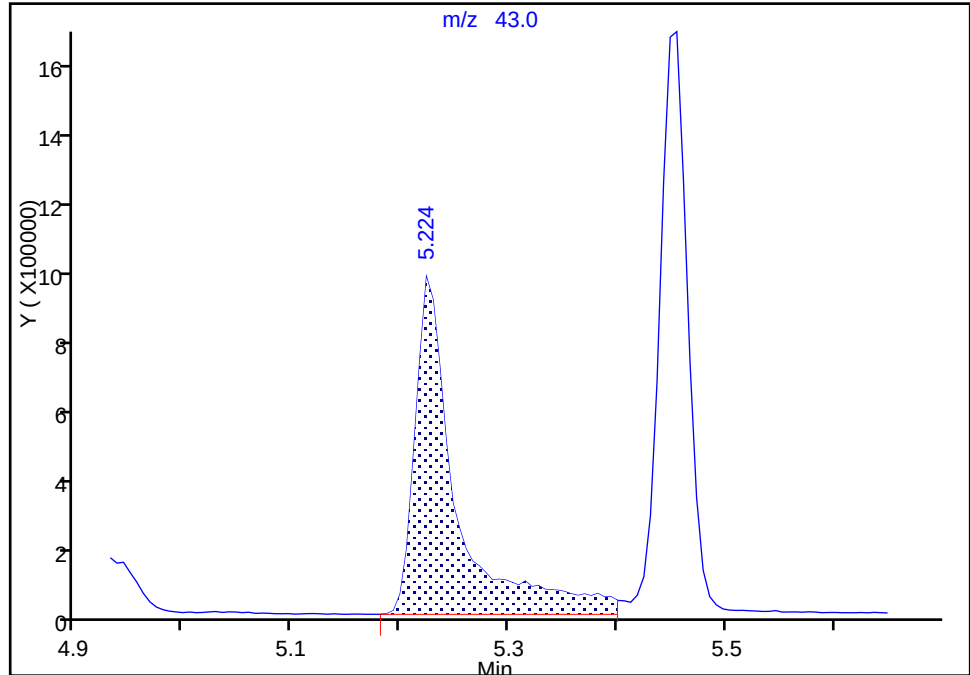
MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

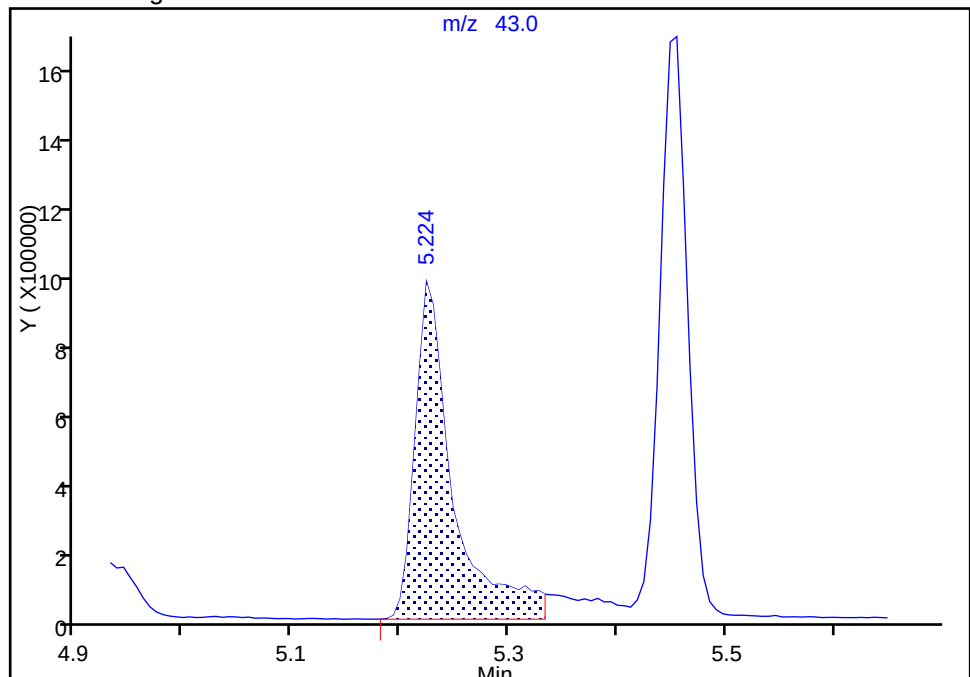
RT: 5.22
Area: 2620506
Amount: 3061.9162
Amount Units: ug/L

Processing Integration Results



RT: 5.22
Area: 2389924
Amount: 2754.7482
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 01:11:11

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9074.D

Injection Date: 26-Jun-2017 18:28:30

Instrument ID: HP5973N

Lims ID: IC 7

Client ID:

Operator ID: LH

ALS Bottle#:

19

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: N-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

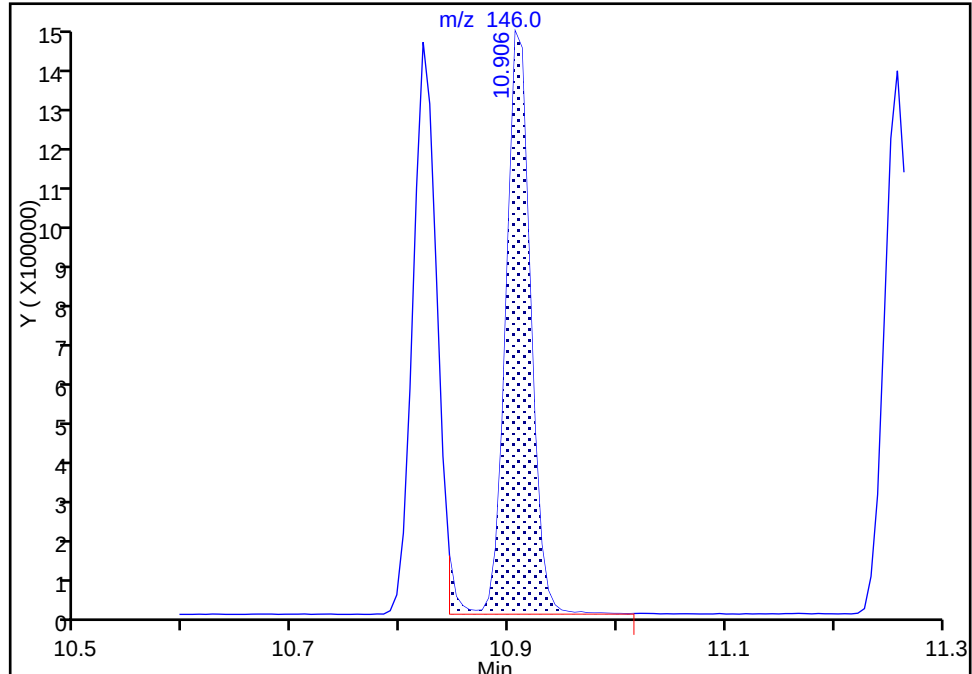
MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

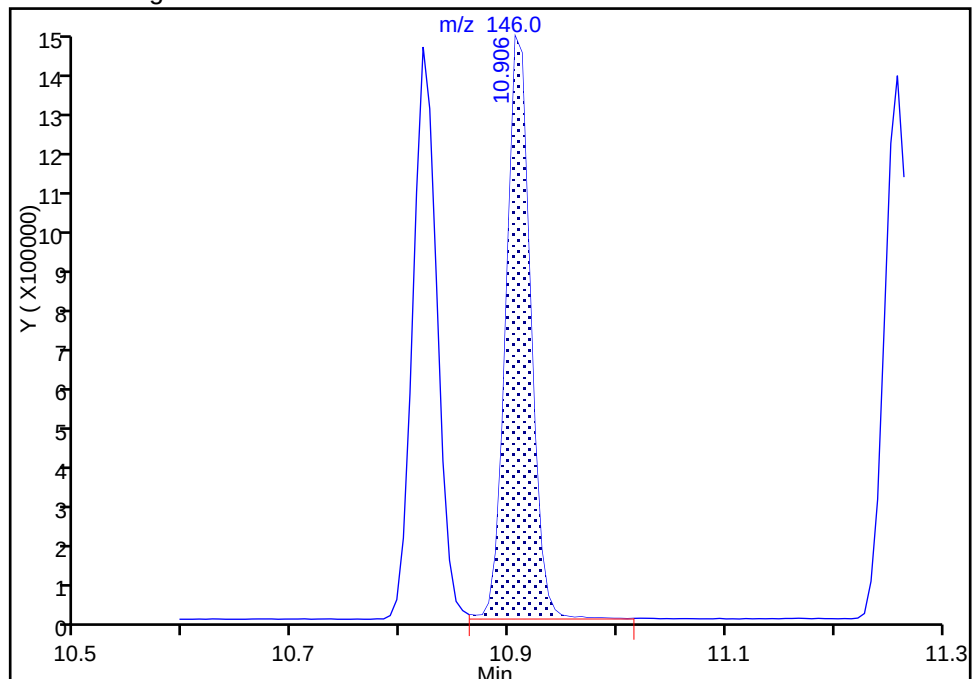
RT: 10.91
Area: 2332143
Amount: 105.7413
Amount Units: ug/L

Processing Integration Results



RT: 10.91
Area: 2255695
Amount: 101.9868
Amount Units: ug/L

Manual Integration Results



Reviewer: sonkera, 27-Jun-2017 01:12:12

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1

SDG No.: _____

Lab Sample ID: ICV 480-362749/29 Calibration Date: 06/20/2017 00:07

Instrument ID: HP5973C Calib Start Date: 06/19/2017 15:19

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/19/2017 18:15

Lab File ID: C4710.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	2.390	2.133	0.1000	22.3	25.0	-10.7	50.0
Chloromethane	Ave	1.655	1.492	0.1000	22.6	25.0	-9.8	30.0
Vinyl chloride	Ave	1.492	1.301	0.1000	21.8	25.0	-12.9	30.0
Butadiene	Ave	1.375	1.184		21.5	25.0	-13.8	30.0
Bromomethane	Ave	1.775	1.562	0.1000	22.0	25.0	-12.0	50.0
Chloroethane	Ave	1.496	1.376	0.1000	23.0	25.0	-8.0	50.0
Dichlorofluoromethane	Ave	3.581	3.252		22.7	25.0	-9.2	30.0
Trichlorofluoromethane	Ave	3.429	3.062	0.1000	22.3	25.0	-10.7	30.0
Ethyl ether	Ave	1.810	1.894		26.2	25.0	4.6	30.0
Acrolein	Ave	0.2959	0.2971		126	125	0.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.139	2.165	0.1000	25.3	25.0	1.2	30.0
1,1-Dichloroethene	Ave	2.138	2.115	0.1000	24.7	25.0	-1.1	30.0
Acetone	Ave	0.5575	0.5624	0.1000	126	125	0.9	50.0
Iodomethane	Ave	3.783	4.019		26.6	25.0	6.2	30.0
Carbon disulfide	Ave	7.487	7.808	0.1000	26.1	25.0	4.3	30.0
Methyl acetate	Ave	1.451	1.535	0.1000	132	125	5.8	50.0
Allyl chloride	Ave	3.554	3.549		25.0	25.0	-0.1	30.0
Methylene Chloride	Ave	2.284	2.359	0.1000	25.8	25.0	3.3	30.0
2-Methyl-2-propanol	Ave	0.2173	0.2244		258	250	3.2	50.0
Methyl tert-butyl ether	Ave	5.778	6.095	0.1000	26.4	25.0	5.5	30.0
Acrylonitrile	Ave	0.7107	0.7701		271	250	8.4	30.0
trans-1,2-Dichloroethene	Ave	2.340	2.389	0.1000	25.5	25.0	2.1	30.0
Hexane	Ave	3.036	2.885		23.8	25.0	-5.0	30.0
Vinyl acetate	Ave	3.937	3.506		44.5	50.0	-10.9	30.0
1,1-Dichloroethane	Ave	3.809	3.938	0.2000	25.9	25.0	3.4	30.0
2-Butanone (MEK)	Ave	0.9032	0.9448	0.1000	131	125	4.6	30.0
2,2-Dichloropropane	Ave	3.004	2.735		22.8	25.0	-9.0	30.0
cis-1,2-Dichloroethene	Ave	2.581	2.682	0.1000	26.0	25.0	3.9	30.0
Chlorobromomethane	Ave	1.258	1.308		26.0	25.0	4.0	30.0
Chloroform	Ave	3.915	3.894	0.2000	24.9	25.0	-0.5	30.0
Tetrahydrofuran	Ave	0.6631	0.6356		47.9	50.0	-4.2	30.0
1,1,1-Trichloroethane	Ave	3.253	3.364	0.1000	25.9	25.0	3.4	30.0
Cyclohexane	Ave	3.945	4.091	0.1000	25.9	25.0	3.7	30.0
Isobutyl alcohol	Ave	0.1136	0.1190		655	625	4.7	50.0
1,1-Dichloropropene	Ave	2.863	3.008		26.3	25.0	5.1	30.0
Carbon tetrachloride	Ave	2.967	3.070	0.1000	25.9	25.0	3.5	30.0
1,2-Dichloroethane	Ave	2.989	3.021	0.1000	25.3	25.0	1.1	30.0
Benzene	Ave	8.705	9.072	0.5000	26.1	25.0	4.2	30.0
n-Heptane	Ave	2.934	2.659		22.7	25.0	-9.4	30.0
Trichloroethene	Ave	2.300	2.374	0.2000	25.8	25.0	3.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab Sample ID: ICV 480-362749/29 Calibration Date: 06/20/2017 00:07
 Instrument ID: HP5973C Calib Start Date: 06/19/2017 15:19
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/19/2017 18:15
 Lab File ID: C4710.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	3.570	3.670	0.1000	25.7	25.0	2.8	30.0
1,2-Dichloropropane	Ave	2.278	2.410	0.1000	26.4	25.0	5.8	30.0
1,4-Dioxane	Ave	0.0097	0.0106		550	500	10.0	50.0
Dibromomethane	Ave	1.366	1.423	0.1000	26.0	25.0	4.2	30.0
Bromodichloromethane	Ave	2.595	2.719	0.2000	26.2	25.0	4.8	30.0
2-Chloroethyl vinyl ether	Ave	1.246	1.390		27.9	25.0	11.6	30.0
cis-1,3-Dichloropropene	Ave	3.362	3.585	0.2000	26.7	25.0	6.6	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8611	0.9524	0.1000	138	125	10.6	30.0
Toluene	Ave	2.535	2.729	0.4000	26.9	25.0	7.6	30.0
Ethyl methacrylate	Ave	0.9721	1.124		28.9	25.0	15.6	30.0
trans-1,3-Dichloropropene	Ave	1.349	1.447	0.1000	26.8	25.0	7.3	30.0
1,1,2-Trichloroethane	Ave	0.7177	0.7691	0.1000	26.8	25.0	7.2	30.0
2-Hexanone	Ave	0.6060	0.6712	0.1000	138	125	10.8	30.0
Tetrachloroethene	Ave	1.182	1.251	0.2000	26.5	25.0	5.9	30.0
1,3-Dichloropropane	Ave	1.534	1.640		26.7	25.0	6.9	30.0
Dibromochloromethane	Ave	0.9137	0.9940	0.1000	27.2	25.0	8.8	30.0
1,2-Dibromoethane	Ave	0.9070	0.9640		26.6	25.0	6.3	30.0
Chlorobenzene	Ave	3.051	3.211	0.5000	26.3	25.0	5.2	30.0
Ethylbenzene	Ave	4.914	5.192	0.1000	26.4	25.0	5.7	30.0
1,1,1,2-Tetrachloroethane	Ave	1.036	1.106		26.7	25.0	6.8	30.0
m,p-Xylene	Ave	1.961	2.096	0.1000	26.7	25.0	6.9	30.0
o-Xylene	Ave	1.946	2.094	0.3000	26.9	25.0	7.6	30.0
Styrene	Ave	2.996	3.345	0.3000	27.9	25.0	11.6	30.0
Isopropylbenzene	Ave	4.606	4.893	0.1000	26.6	25.0	6.2	30.0
Bromoform	Ave	0.5446	0.5859	0.1000	26.9	25.0	7.6	50.0
1,1,2,2-Tetrachloroethane	Ave	1.069	1.109	0.3000	26.0	25.0	3.8	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2802	0.2917		26.0	25.0	4.1	50.0
N-Propylbenzene	Ave	5.403	5.683		26.3	25.0	5.2	30.0
1,2,3-Trichloropropane	Ave	0.3537	0.3681		26.0	25.0	4.1	30.0
Bromobenzene	Ave	1.259	1.322		26.3	25.0	5.0	30.0
1,3,5-Trimethylbenzene	Ave	3.816	4.056		26.6	25.0	6.3	30.0
2-Chlorotoluene	Ave	1.143	1.214		26.6	25.0	6.2	30.0
4-Chlorotoluene	Ave	1.203	1.264		26.3	25.0	5.1	30.0
tert-Butylbenzene	Ave	0.9139	0.9506		26.0	25.0	4.0	30.0
1,2,4-Trimethylbenzene	Ave	3.972	4.241		26.7	25.0	6.8	30.0
sec-Butylbenzene	Ave	4.851	5.166		26.6	25.0	6.5	30.0
4-Isopropyltoluene	Ave	4.149	4.455		26.8	25.0	7.4	30.0
1,3-Dichlorobenzene	Ave	2.467	2.557	0.6000	25.9	25.0	3.7	30.0
1,4-Dichlorobenzene	Ave	2.515	2.590	0.5000	25.7	25.0	3.0	30.0
n-Butylbenzene	Ave	3.657	3.811		26.1	25.0	4.2	30.0
1,2-Dichlorobenzene	Ave	2.365	2.448	0.4000	25.9	25.0	3.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab Sample ID: ICV 480-362749/29 Calibration Date: 06/20/2017 00:07
 Instrument ID: HP5973C Calib Start Date: 06/19/2017 15:19
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/19/2017 18:15
 Lab File ID: C4710.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	0.1703	0.1861	0.0500	27.3	25.0	9.2	50.0
1,2,4-Trichlorobenzene	Ave	1.680	1.729	0.2000	25.7	25.0	2.9	30.0
Hexachlorobutadiene	Ave	0.5860	0.6222		26.5	25.0	6.2	30.0
Naphthalene	Ave	3.958	4.211		26.6	25.0	6.4	30.0
1,2,3-Trichlorobenzene	Ave	1.519	1.599		26.3	25.0	5.2	30.0
Dibromofluoromethane (Surr)	Ave	1.248	1.255		25.2	25.0	0.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7328	0.7170		24.5	25.0	-2.2	30.0
Toluene-d8 (Surr)	Ave	2.257	2.291		25.4	25.0	1.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8068	0.8223		25.5	25.0	1.9	30.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4710.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 20-Jun-2017 00:07:30 ALS Bottle#: 37 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 480-0063379-029
 Operator ID: LH Instrument ID: HP5973C
 Sublist:
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 20-Jun-2017 12:21:26 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK038

First Level Reviewer: HillL

Date: 20-Jun-2017 11:11:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	135607	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	84	304486	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.851	0.001	93	329642	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	170161	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	97229	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	92	697543	25.0	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	97	250378	25.0	25.5	
10 Dichlorodifluoromethane	85	4.507	4.507	0.000	99	289316	25.0	22.3	
12 Chloromethane	50	4.922	4.910	0.012	99	202352	25.0	22.5	
13 Vinyl chloride	62	5.147	5.147	0.000	98	176361	25.0	21.8	
151 Butadiene	54	5.195	5.183	0.012	91	160625	25.0	21.5	
14 Bromomethane	94	5.752	5.752	0.000	90	211811	25.0	22.0	
15 Chloroethane	64	5.883	5.882	0.001	100	186621	25.0	23.0	
16 Dichlorofluoromethane	67	6.167	6.167	0.000	97	440959	25.0	22.7	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	98	415227	25.0	22.3	
18 Ethyl ether	59	6.547	6.547	0.000	93	256810	25.0	26.2	
20 Acrolein	56	6.772	6.772	0.000	99	201466	125.0	125.5	
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	92	293617	25.0	25.3	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	286780	25.0	24.7	
23 Acetone	43	6.926	6.914	0.012	100	381350	125.0	126.1	
25 Iodomethane	142	7.116	7.104	0.012	98	545032	25.0	26.6	
26 Carbon disulfide	76	7.211	7.199	0.012	100	1058869	25.0	26.1	
27 Methyl acetate	43	7.223	7.222	0.001	98	1040705	125.0	132.3	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	92	481335	25.0	25.0	
30 Methylene Chloride	84	7.389	7.389	0.000	94	319861	25.0	25.8	
31 2-Methyl-2-propanol	59	7.401	7.400	0.000	98	304265	250.0	258.1	
32 Methyl tert-butyl ether	73	7.578	7.566	0.012	95	826465	25.0	26.4	
33 Acrylonitrile	53	7.614	7.614	0.000	100	1044309	250.0	270.9	
34 trans-1,2-Dichloroethene	96	7.638	7.626	0.012	99	323974	25.0	25.5	
35 Hexane	57	7.792	7.792	0.000	93	391277	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
37 Vinyl acetate	43	7.970	7.970	0.000	97	950813	50.0	44.5	
39 1,1-Dichloroethane	63	8.029	8.029	0.000	96	534085	25.0	25.8	
43 2-Butanone (MEK)	43	8.480	8.480	0.000	100	640634	125.0	130.8	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	80	363643	25.0	26.0	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	60	370838	25.0	22.8	
48 Chlorobromomethane	128	8.741	8.740	0.001	96	177406	25.0	26.0	
50 Chloroform	83	8.752	8.752	0.000	93	528028	25.0	24.9	
49 Tetrahydrofuran	42	8.764	8.764	0.000	87	172372	50.0	47.9	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	456161	25.0	25.9	
52 Cyclohexane	56	8.990	8.989	0.001	94	554751	25.0	25.9	
53 Isobutyl alcohol	43	9.001	9.001	0.000	94	403297	625.0	654.6	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	98	407962	25.0	26.3	
55 Carbon tetrachloride	117	9.073	9.072	0.001	96	416338	25.0	25.9	
57 Benzene	78	9.250	9.238	0.012	96	1230261	25.0	26.1	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	97	409630	25.0	25.3	
59 n-Heptane	43	9.274	9.274	0.000	93	360533	25.0	22.7	
62 Trichloroethene	95	9.713	9.713	0.000	95	321921	25.0	25.8	
64 Methylcyclohexane	83	9.867	9.867	0.000	90	497619	25.0	25.7	
65 1,2-Dichloropropane	63	9.915	9.914	0.000	97	326798	25.0	26.4	
66 1,4-Dioxane	88	9.986	9.986	0.000	94	64764	500.0	550.0	
67 Dibromomethane	93	10.045	10.045	0.000	94	192951	25.0	26.0	
68 Dichlorobromomethane	83	10.116	10.116	0.000	99	368731	25.0	26.2	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	93	188494	25.0	27.9	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	98	486167	25.0	26.7	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	96	1449904	125.0	138.2	
74 Toluene	92	10.709	10.709	0.000	99	830886	25.0	26.9	
75 Ethyl methacrylate	69	10.780	10.780	0.000	90	342174	25.0	28.9	
77 trans-1,3-Dichloropropene	75	10.839	10.839	0.000	92	440625	25.0	26.8	
79 1,1,2-Trichloroethane	83	11.029	11.029	0.000	91	234192	25.0	26.8	
80 2-Hexanone	43	11.112	11.112	0.000	96	1021814	125.0	138.4	
81 Tetrachloroethene	166	11.160	11.160	0.000	98	380860	25.0	26.5	
82 1,3-Dichloropropane	76	11.172	11.171	0.001	91	499505	25.0	26.7	
83 Chlorodibromomethane	129	11.385	11.385	0.000	89	302653	25.0	27.2	
84 Ethylene Dibromide	107	11.527	11.527	0.000	98	293525	25.0	26.6	
87 Chlorobenzene	112	11.859	11.859	0.000	98	977727	25.0	26.3	
88 Ethylbenzene	91	11.871	11.871	0.000	97	1580937	25.0	26.4	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	95	336710	25.0	26.7	
90 m-Xylene & p-Xylene	106	11.954	11.954	0.000	99	638216	25.0	26.7	
91 o-Xylene	106	12.298	12.298	0.000	96	637522	25.0	26.9	
92 Styrene	104	12.310	12.310	0.000	93	1018380	25.0	27.9	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	1612780	25.0	26.6	
95 Bromoform	173	12.583	12.583	0.000	98	178412	25.0	26.9	
97 1,1,2,2-Tetrachloroethane	83	12.844	12.855	-0.011	95	365666	25.0	26.0	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	93	96146	25.0	26.0	
99 N-Propylbenzene	91	12.927	12.926	0.001	99	1873315	25.0	26.3	
100 1,2,3-Trichloropropane	110	12.938	12.938	0.000	83	121345	25.0	26.0	
101 Bromobenzene	156	12.974	12.974	0.000	86	435910	25.0	26.3	
102 1,3,5-Trimethylbenzene	105	13.045	13.045	0.000	94	1337110	25.0	26.6	
103 2-Chlorotoluene	126	13.093	13.092	0.001	98	400282	25.0	26.6	
105 4-Chlorotoluene	126	13.176	13.175	0.001	97	416827	25.0	26.3	
106 tert-Butylbenzene	134	13.377	13.377	0.000	92	313356	25.0	26.0	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	96	1397913	25.0	26.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.567	13.567	0.000	94	1703024	25.0	26.6	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	1468411	25.0	26.8	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	98	842912	25.0	25.9	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	96	853801	25.0	25.7	
115 n-Butylbenzene	91	14.089	14.089	0.000	98	1256117	25.0	26.1	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	99	806811	25.0	25.9	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	86	61331	25.0	27.3	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	94	569891	25.0	25.7	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	98	205095	25.0	26.5	
121 Naphthalene	128	16.650	16.650	0.000	97	1388272	25.0	26.6	
122 1,2,3-Trichlorobenzene	180	17.030	17.029	0.001	96	527041	25.0	26.3	

Reagents:

SS 8260 CORP_00048

Amount Added: 12.50

Units: uL

SS GAS CORP_00188

Amount Added: 12.50

Units: uL

C_8260_IS_00089

Amount Added: 1.00

Units: uL

Run Reagent

C_8260_Surr_00098

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170619-63379.b\\C4710.D

Injection Date: 20-Jun-2017 00:07:30

Instrument ID: HP5973C

Operator ID: LH

Lims ID: ICV

Worklist Smp#: 29

Client ID:

Purge Vol: 5.000 mL

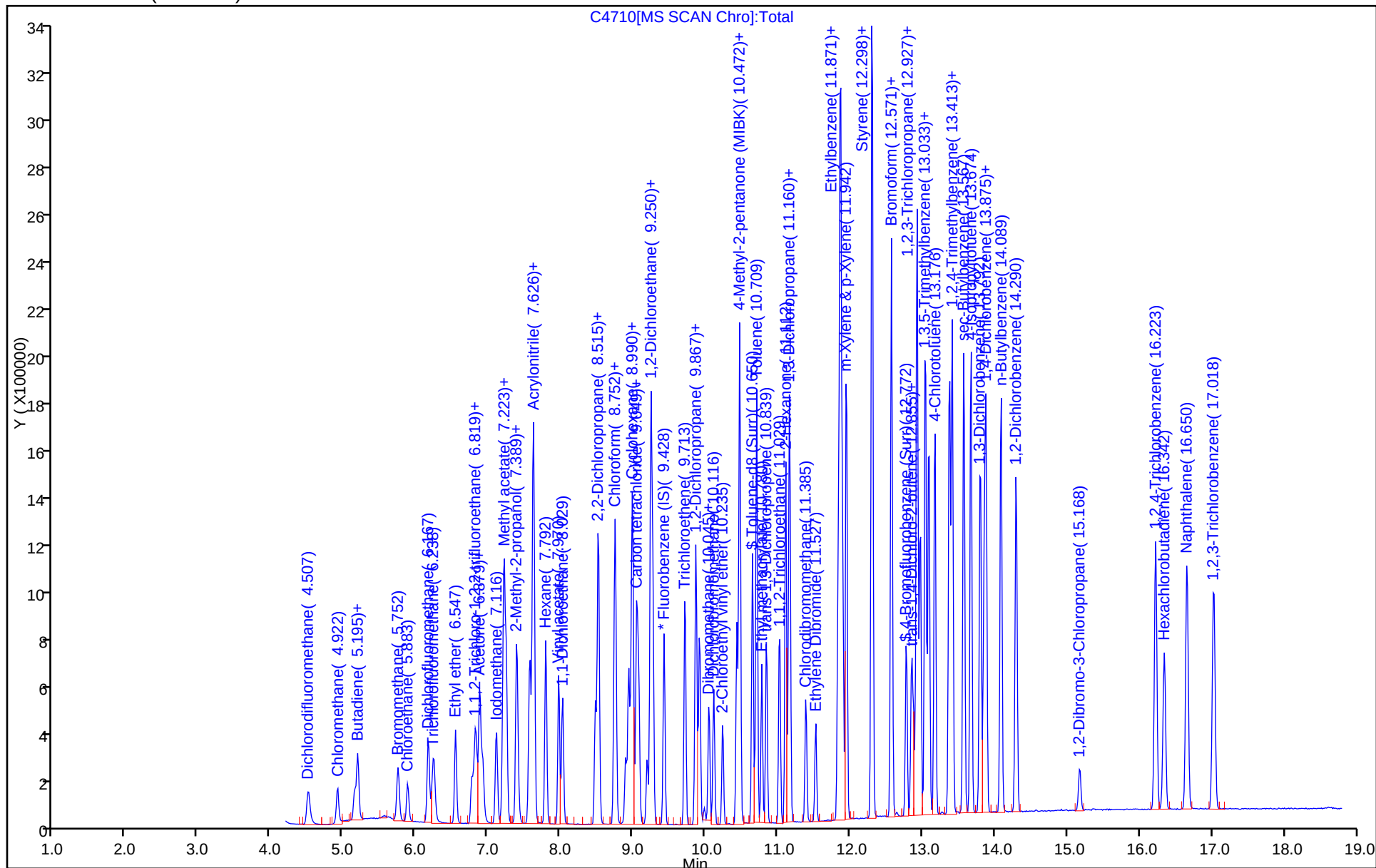
Dil. Factor: 1.0000

ALS Bottle#: 37

Method: C-8260

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.: 480-120094-1

SDG No.: _____

Lab Sample ID: CCVIS 480-364320/3 Calibration Date: 06/27/2017 21:40

Instrument ID: HP5973C Calib Start Date: 06/19/2017 15:19

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/19/2017 18:15

Lab File ID: C5068.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	2.390	1.833	0.1000	19.2	25.0	-23.3	50.0
Chloromethane	Ave	1.655	1.841	0.1000	27.8	25.0	11.2	20.0
Vinyl chloride	Ave	1.492	1.536	0.1000	25.7	25.0	2.9	20.0
Butadiene	Ave	1.375	1.405		25.6	25.0	2.2	20.0
Bromomethane	Ave	1.775	1.635	0.1000	23.0	25.0	-7.9	50.0
Chloroethane	Ave	1.496	1.386	0.1000	23.2	25.0	-7.4	50.0
Dichlorofluoromethane	Ave	3.581	3.329		23.2	25.0	-7.0	20.0
Trichlorofluoromethane	Ave	3.429	2.973	0.1000	21.7	25.0	-13.3	20.0
Ethyl ether	Ave	1.810	1.715		23.7	25.0	-5.3	20.0
Acrolein	Ave	0.2959	0.2760		117	125	-6.7	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.139	1.975	0.1000	23.1	25.0	-7.7	20.0
1,1-Dichloroethene	Ave	2.138	1.886	0.1000	22.1	25.0	-11.8	20.0
Acetone	Ave	0.5575	0.5587	0.1000	125	125	0.2	50.0
Iodomethane	Ave	3.783	3.286		21.7	25.0	-13.1	20.0
Carbon disulfide	Ave	7.487	6.988	0.1000	23.3	25.0	-6.7	20.0
Methyl acetate	Ave	1.451	1.455	0.1000	125	125	0.3	50.0
Allyl chloride	Ave	3.554	3.353		23.6	25.0	-5.7	20.0
Methylene Chloride	Ave	2.284	2.145	0.1000	23.5	25.0	-6.1	20.0
2-Methyl-2-propanol	Ave	0.2173	0.2175		250	250	0.0	50.0
Methyl tert-butyl ether	Ave	5.778	5.569	0.1000	24.1	25.0	-3.6	20.0
Acrylonitrile	Ave	0.7107	0.7224		254	250	1.6	20.0
trans-1,2-Dichloroethene	Ave	2.340	2.101	0.1000	22.5	25.0	-10.2	20.0
Hexane	Ave	3.036	2.870		23.6	25.0	-5.5	20.0
Vinyl acetate	Ave	3.937	4.003		50.9	50.0	1.7	20.0
1,1-Dichloroethane	Ave	3.809	3.598	0.2000	23.6	25.0	-5.5	20.0
2-Butanone (MEK)	Ave	0.9032	0.8980	0.1000	124	125	-0.6	20.0
2,2-Dichloropropane	Ave	3.004	2.926		24.4	25.0	-2.6	20.0
cis-1,2-Dichloroethene	Ave	2.581	2.357	0.1000	22.8	25.0	-8.7	20.0
Chlorobromomethane	Ave	1.258	1.121		22.3	25.0	-10.8	20.0
Chloroform	Ave	3.915	3.563	0.2000	22.8	25.0	-9.0	20.0
Tetrahydrofuran	Ave	0.6631	0.5858		44.2	50.0	-11.7	20.0
1,1,1-Trichloroethane	Ave	3.253	3.048	0.1000	23.4	25.0	-6.3	20.0
Cyclohexane	Ave	3.945	3.731	0.1000	23.6	25.0	-5.4	20.0
Isobutyl alcohol	Ave	0.1136	0.1066		587	625	-6.1	50.0
1,1-Dichloropropene	Ave	2.863	2.723		23.8	25.0	-4.9	20.0
Carbon tetrachloride	Ave	2.967	2.707	0.1000	22.8	25.0	-8.8	20.0
Benzene	Ave	8.705	8.017	0.5000	23.0	25.0	-7.9	20.0
1,2-Dichloroethane	Ave	2.989	2.834	0.1000	23.7	25.0	-5.2	20.0
n-Heptane	Ave	2.934	2.778		23.7	25.0	-5.3	20.0
Trichloroethene	Ave	2.300	2.055	0.2000	22.3	25.0	-10.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-364320/3 Calibration Date: 06/27/2017 21:40
 Instrument ID: HP5973C Calib Start Date: 06/19/2017 15:19
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/19/2017 18:15
 Lab File ID: C5068.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	3.570	3.300	0.1000	23.1	25.0	-7.5	20.0
1,2-Dichloropropane	Ave	2.278	2.056	0.1000	22.6	25.0	-9.8	20.0
1,4-Dioxane	Ave	0.0097	0.0106		547	500	9.5	50.0
Dibromomethane	Ave	1.366	1.235	0.1000	22.6	25.0	-9.6	20.0
Bromodichloromethane	Ave	2.595	2.390	0.2000	23.0	25.0	-7.9	20.0
2-Chloroethyl vinyl ether	Ave	1.246	1.154		23.2	25.0	-7.4	20.0
cis-1,3-Dichloropropene	Ave	3.362	3.137	0.2000	23.3	25.0	-6.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8611	0.9053	0.1000	131	125	5.1	20.0
Toluene	Ave	2.535	2.420	0.4000	23.9	25.0	-4.5	20.0
Ethyl methacrylate	Ave	0.9721	1.006		25.9	25.0	3.5	20.0
trans-1,3-Dichloropropene	Ave	1.349	1.372	0.1000	25.4	25.0	1.7	20.0
1,1,2-Trichloroethane	Ave	0.7177	0.6881	0.1000	24.0	25.0	-4.1	20.0
2-Hexanone	Ave	0.6060	0.6472	0.1000	134	125	6.8	20.0
Tetrachloroethene	Ave	1.182	1.063	0.2000	22.5	25.0	-10.0	20.0
1,3-Dichloropropane	Ave	1.534	1.485		24.2	25.0	-3.2	20.0
Dibromochloromethane	Ave	0.9137	0.8524	0.1000	23.3	25.0	-6.7	20.0
1,2-Dibromoethane	Ave	0.9070	0.8286		22.8	25.0	-8.6	20.0
Chlorobenzene	Ave	3.051	2.737	0.5000	22.4	25.0	-10.3	20.0
Ethylbenzene	Ave	4.914	4.490	0.1000	22.9	25.0	-8.6	20.0
1,1,1,2-Tetrachloroethane	Ave	1.036	0.9482		22.9	25.0	-8.5	20.0
m,p-Xylene	Ave	1.961	1.784	0.1000	22.7	25.0	-9.0	20.0
o-Xylene	Ave	1.946	1.729	0.3000	22.2	25.0	-11.1	20.0
Styrene	Ave	2.996	2.691	0.3000	22.5	25.0	-10.2	20.0
Isopropylbenzene	Ave	4.606	4.475	0.1000	24.3	25.0	-2.8	20.0
Bromoform	Ave	0.5446	0.4697	0.1000	21.6	25.0	-13.8	50.0
1,1,2,2-Tetrachloroethane	Ave	1.069	1.034	0.3000	24.2	25.0	-3.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2802	0.3164		28.2	25.0	12.9	50.0
1,2,3-Trichloropropane	Ave	0.3537	0.3489		24.7	25.0	-1.3	20.0
N-Propylbenzene	Ave	5.403	5.333		24.7	25.0	-1.3	20.0
Bromobenzene	Ave	1.259	1.164		23.1	25.0	-7.5	20.0
1,3,5-Trimethylbenzene	Ave	3.816	3.735		24.5	25.0	-2.1	20.0
2-Chlorotoluene	Ave	1.143	1.095		24.0	25.0	-4.2	20.0
4-Chlorotoluene	Ave	1.203	1.133		23.5	25.0	-5.9	20.0
tert-Butylbenzene	Ave	0.9139	0.8340		22.8	25.0	-8.7	20.0
1,2,4-Trimethylbenzene	Ave	3.972	3.906		24.6	25.0	-1.7	20.0
sec-Butylbenzene	Ave	4.851	4.776		24.6	25.0	-1.6	20.0
4-Isopropyltoluene	Ave	4.149	4.032		24.3	25.0	-2.8	20.0
1,3-Dichlorobenzene	Ave	2.467	2.266	0.6000	23.0	25.0	-8.1	20.0
1,4-Dichlorobenzene	Ave	2.515	2.303	0.5000	22.9	25.0	-8.4	20.0
n-Butylbenzene	Ave	3.657	3.655		25.0	25.0	-0.0	20.0
1,2-Dichlorobenzene	Ave	2.365	2.165	0.4000	22.9	25.0	-8.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-364320/3 Calibration Date: 06/27/2017 21:40
 Instrument ID: HP5973C Calib Start Date: 06/19/2017 15:19
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/19/2017 18:15
 Lab File ID: C5068.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	0.1703	0.1763	0.0500	25.9	25.0	3.5	50.0
1,2,4-Trichlorobenzene	Ave	1.680	1.491	0.2000	22.2	25.0	-11.3	20.0
Hexachlorobutadiene	Ave	0.5860	0.5528		23.6	25.0	-5.7	20.0
Naphthalene	Ave	3.958	3.694		23.3	25.0	-6.7	20.0
1,2,3-Trichlorobenzene	Ave	1.519	1.376		22.6	25.0	-9.4	20.0
Dibromofluoromethane (Surr)	Ave	1.248	1.085		21.8	25.0	-13.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7328	0.6697		22.9	25.0	-8.6	20.0
Toluene-d8 (Surr)	Ave	2.257	2.084		23.1	25.0	-7.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8068	0.6984		21.6	25.0	-13.4	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5068.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 27-Jun-2017 21:40:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0063636-003
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 22:04:47 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: reiler

Date: 27-Jun-2017 22:04:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	146962	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	84	307708	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.851	0.000	95	302536	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	159505	25.0	21.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	98415	25.0	22.8	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	641380	25.0	23.1	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.772	0.000	86	214910	25.0	21.6	
10 Dichlorodifluoromethane	85	4.495	4.495	0.000	99	269309	25.0	19.2	
12 Chloromethane	50	4.898	4.898	0.000	100	270505	25.0	27.8	
13 Vinyl chloride	62	5.135	5.135	0.000	98	225751	25.0	25.7	
151 Butadiene	54	5.183	5.183	0.000	90	206536	25.0	25.6	
14 Bromomethane	94	5.740	5.740	0.000	90	240333	25.0	23.0	
15 Chloroethane	64	5.871	5.871	0.000	100	203673	25.0	23.2	
16 Dichlorofluoromethane	67	6.155	6.155	0.000	98	489256	25.0	23.2	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	98	436934	25.0	21.7	
18 Ethyl ether	59	6.535	6.535	0.000	94	251993	25.0	23.7	
20 Acrolein	56	6.760	6.760	0.000	100	202775	125.0	116.6	
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	94	290219	25.0	23.1	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	277232	25.0	22.1	
23 Acetone	43	6.914	6.914	0.000	100	410524	125.0	125.3	
25 Iodomethane	142	7.104	7.104	0.000	99	482906	25.0	21.7	
26 Carbon disulfide	76	7.199	7.199	0.000	100	1026927	25.0	23.3	
27 Methyl acetate	43	7.211	7.211	0.000	98	1069246	125.0	125.4	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	91	492717	25.0	23.6	
30 Methylene Chloride	84	7.389	7.389	0.000	94	315286	25.0	23.5	
31 2-Methyl-2-propanol	59	7.400	7.400	0.000	97	319698	250.0	250.2	
32 Methyl tert-butyl ether	73	7.566	7.566	0.000	96	818478	25.0	24.1	
33 Acrylonitrile	53	7.614	7.614	0.000	100	1061601	250.0	254.1	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	99	308748	25.0	22.4	
35 Hexane	57	7.792	7.792	0.000	94	421738	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
37 Vinyl acetate	43	7.970	7.970	0.000	97	1176714	50.0	50.8	
39 1,1-Dichloroethane	63	8.017	8.017	0.000	96	528810	25.0	23.6	
43 2-Butanone (MEK)	43	8.480	8.480	0.000	100	659823	125.0	124.3	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	82	346326	25.0	22.8	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	66	430032	25.0	24.4	
48 Chlorobromomethane	128	8.740	8.740	0.000	96	164789	25.0	22.3	
50 Chloroform	83	8.752	8.752	0.000	94	523671	25.0	22.8	
49 Tetrahydrofuran	42	8.752	8.752	0.000	87	172185	50.0	44.2	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	447951	25.0	23.4	
52 Cyclohexane	56	8.978	8.978	0.000	92	548289	25.0	23.6	
53 Isobutyl alcohol	43	8.989	8.989	0.000	91	391747	625.0	586.7	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	97	400153	25.0	23.8	
55 Carbon tetrachloride	117	9.072	9.072	0.000	97	397871	25.0	22.8	
57 Benzene	78	9.239	9.239	0.000	96	1178155	25.0	23.0	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	97	416454	25.0	23.7	
59 n-Heptane	43	9.274	9.274	0.000	93	408267	25.0	23.7	
62 Trichloroethene	95	9.713	9.713	0.000	97	301977	25.0	22.3	
64 Methylcyclohexane	83	9.867	9.867	0.000	90	485037	25.0	23.1	
65 1,2-Dichloropropane	63	9.914	9.914	0.000	97	302162	25.0	22.6	
66 1,4-Dioxane	88	9.986	9.986	0.000	94	65141	500.0	547.4	
67 Dibromomethane	93	10.045	10.045	0.000	96	181541	25.0	22.6	
68 Dichlorobromomethane	83	10.116	10.116	0.000	99	351252	25.0	23.0	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	92	169540	25.0	23.1	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	99	461035	25.0	23.3	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	96	1392825	125.0	131.4	
74 Toluene	92	10.709	10.709	0.000	98	744670	25.0	23.9	
75 Ethyl methacrylate	69	10.780	10.780	0.000	90	309511	25.0	25.9	
77 trans-1,3-Dichloropropene	75	10.839	10.839	0.000	94	422321	25.0	25.4	
79 1,1,2-Trichloroethane	83	11.017	11.017	0.000	92	211731	25.0	24.0	
80 2-Hexanone	43	11.112	11.112	0.000	97	995796	125.0	133.5	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	327205	25.0	22.5	
82 1,3-Dichloropropane	76	11.171	11.171	0.000	93	457007	25.0	24.2	
83 Chlorodibromomethane	129	11.385	11.385	0.000	90	262285	25.0	23.3	
84 Ethylene Dibromide	107	11.527	11.527	0.000	99	254951	25.0	22.8	
87 Chlorobenzene	112	11.859	11.859	0.000	97	842215	25.0	22.4	
88 Ethylbenzene	91	11.871	11.871	0.000	98	1381685	25.0	22.8	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	93	291758	25.0	22.9	
90 m-Xylene & p-Xylene	106	11.942	11.942	0.000	96	548871	25.0	22.7	
91 o-Xylene	106	12.298	12.298	0.000	95	532152	25.0	22.2	
92 Styrene	104	12.310	12.310	0.000	94	828175	25.0	22.5	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	1353870	25.0	24.3	
95 Bromoform	173	12.583	12.583	0.000	98	144515	25.0	21.6	
97 1,1,2,2-Tetrachloroethane	83	12.844	12.844	0.000	96	312857	25.0	24.2	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	93	95712	25.0	28.2	
100 1,2,3-Trichloropropane	110	12.927	12.927	0.000	84	105553	25.0	24.7	
99 N-Propylbenzene	91	12.927	12.927	0.000	99	1613296	25.0	24.7	
101 Bromobenzene	156	12.974	12.974	0.000	92	352192	25.0	23.1	
102 1,3,5-Trimethylbenzene	105	13.033	13.033	0.000	94	1130041	25.0	24.5	
103 2-Chlorotoluene	126	13.093	13.093	0.000	97	331254	25.0	23.9	
105 4-Chlorotoluene	126	13.176	13.176	0.000	98	342651	25.0	23.5	
106 tert-Butylbenzene	134	13.377	13.377	0.000	93	252313	25.0	22.8	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	95	1181567	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
109 sec-Butylbenzene	105	13.567	13.567	0.000	94	1444780	25.0	24.6	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	1219781	25.0	24.3	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	98	685521	25.0	23.0	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	94	696866	25.0	22.9	
115 n-Butylbenzene	91	14.089	14.089	0.000	98	1105632	25.0	25.0	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	97	655024	25.0	22.9	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	80	53344	25.0	25.9	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	95	450979	25.0	22.2	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	97	167229	25.0	23.6	
121 Naphthalene	128	16.650	16.650	0.000	97	1117511	25.0	23.3	
122 1,2,3-Trichlorobenzene	180	17.030	17.030	0.000	95	416303	25.0	22.6	

Reagents:

8260 CORP mix_00101	Amount Added: 12.50	Units: uL	
GAS CORP mix_00226	Amount Added: 12.50	Units: uL	
C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170627-63636.b\\C5068.D

Injection Date: 27-Jun-2017 21:40:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

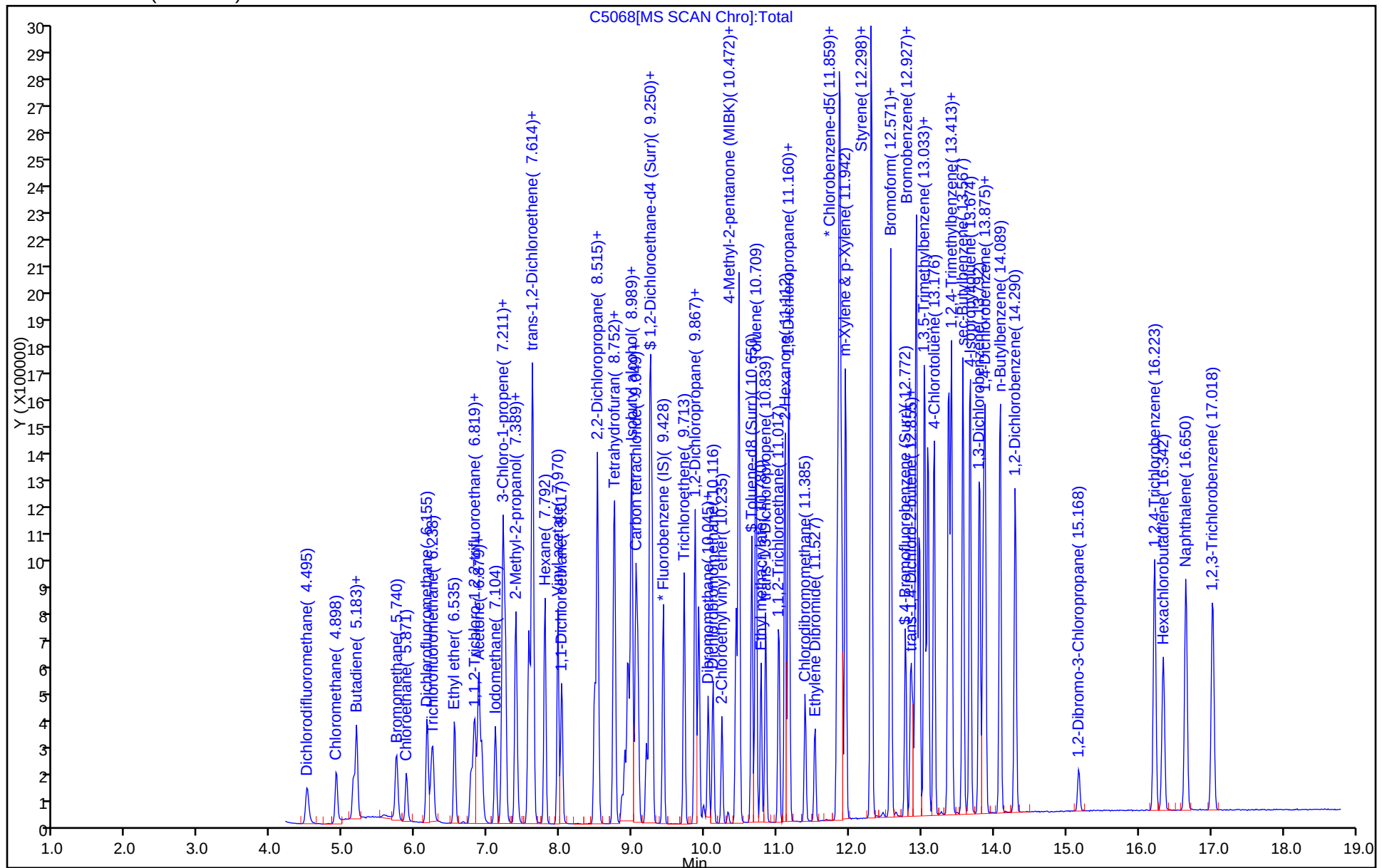
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: C-8260

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.: 480-120094-1

SDG No.: _____

Lab Sample ID: CCVIS 480-364568/3 Calibration Date: 06/28/2017 20:02

Instrument ID: HP5973C Calib Start Date: 06/19/2017 15:19

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/19/2017 18:15

Lab File ID: C5133.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	2.390	2.206	0.1000	23.1	25.0	-7.7	50.0
Chloromethane	Ave	1.655	2.154	0.1000	32.6	25.0	30.2*	20.0
Vinyl chloride	Ave	1.492	1.794	0.1000	30.1	25.0	20.2*	20.0
Butadiene	Ave	1.375	1.641		29.8	25.0	19.4	20.0
Bromomethane	Ave	1.775	1.848	0.1000	26.0	25.0	4.1	50.0
Chloroethane	Ave	1.496	1.572	0.1000	26.3	25.0	5.1	50.0
Dichlorofluoromethane	Ave	3.581	3.679		25.7	25.0	2.7	20.0
Trichlorofluoromethane	Ave	3.429	3.392	0.1000	24.7	25.0	-1.1	20.0
Ethyl ether	Ave	1.810	1.801		24.9	25.0	-0.5	20.0
Acrolein	Ave	0.2959	0.2822		119	125	-4.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.139	2.096	0.1000	24.5	25.0	-2.0	20.0
1,1-Dichloroethene	Ave	2.138	1.980	0.1000	23.2	25.0	-7.4	20.0
Acetone	Ave	0.5575	0.5875	0.1000	132	125	5.4	50.0
Iodomethane	Ave	3.783	3.431		22.7	25.0	-9.3	20.0
Carbon disulfide	Ave	7.487	7.372	0.1000	24.6	25.0	-1.5	20.0
Methyl acetate	Ave	1.451	1.517	0.1000	131	125	4.6	50.0
Allyl chloride	Ave	3.554	3.512		24.7	25.0	-1.2	20.0
Methylene Chloride	Ave	2.284	2.244	0.1000	24.6	25.0	-1.8	20.0
2-Methyl-2-propanol	Ave	0.2173	0.2099		241	250	-3.4	50.0
Methyl tert-butyl ether	Ave	5.778	5.756	0.1000	24.9	25.0	-0.4	20.0
Acrylonitrile	Ave	0.7107	0.7526		265	250	5.9	20.0
trans-1,2-Dichloroethene	Ave	2.340	2.226	0.1000	23.8	25.0	-4.9	20.0
Hexane	Ave	3.036	3.143		25.9	25.0	3.5	20.0
Vinyl acetate	Ave	3.937	4.255		54.0	50.0	8.1	20.0
1,1-Dichloroethane	Ave	3.809	3.770	0.2000	24.7	25.0	-1.0	20.0
2-Butanone (MEK)	Ave	0.9032	0.9360	0.1000	130	125	3.6	20.0
2,2-Dichloropropane	Ave	3.004	3.064		25.5	25.0	2.0	20.0
cis-1,2-Dichloroethene	Ave	2.581	2.458	0.1000	23.8	25.0	-4.8	20.0
Chlorobromomethane	Ave	1.258	1.161		23.1	25.0	-7.6	20.0
Chloroform	Ave	3.915	3.740	0.2000	23.9	25.0	-4.5	20.0
Tetrahydrofuran	Ave	0.6631	0.6109		46.1	50.0	-7.9	20.0
1,1,1-Trichloroethane	Ave	3.253	3.173	0.1000	24.4	25.0	-2.4	20.0
Cyclohexane	Ave	3.945	3.888	0.1000	24.6	25.0	-1.4	20.0
Isobutyl alcohol	Ave	0.1136	0.1074		591	625	-5.4	50.0
1,1-Dichloropropene	Ave	2.863	2.845		24.9	25.0	-0.6	20.0
Carbon tetrachloride	Ave	2.967	2.805	0.1000	23.6	25.0	-5.5	20.0
Benzene	Ave	8.705	8.398	0.5000	24.1	25.0	-3.5	20.0
1,2-Dichloroethane	Ave	2.989	2.962	0.1000	24.8	25.0	-0.9	20.0
n-Heptane	Ave	2.934	3.013		25.7	25.0	2.7	20.0
Trichloroethene	Ave	2.300	2.166	0.2000	23.5	25.0	-5.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-364568/3 Calibration Date: 06/28/2017 20:02
 Instrument ID: HP5973C Calib Start Date: 06/19/2017 15:19
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/19/2017 18:15
 Lab File ID: C5133.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	3.570	3.450	0.1000	24.2	25.0	-3.4	20.0
1,2-Dichloropropane	Ave	2.278	2.144	0.1000	23.5	25.0	-5.9	20.0
1,4-Dioxane	Ave	0.0097	0.0098		505	500	0.9	50.0
Dibromomethane	Ave	1.366	1.288	0.1000	23.6	25.0	-5.7	20.0
Bromodichloromethane	Ave	2.595	2.493	0.2000	24.0	25.0	-3.9	20.0
2-Chloroethyl vinyl ether	Ave	1.246	1.204		24.2	25.0	-3.3	20.0
cis-1,3-Dichloropropene	Ave	3.362	3.230	0.2000	24.0	25.0	-3.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8611	0.9214	0.1000	134	125	7.0	20.0
Toluene	Ave	2.535	2.457	0.4000	24.2	25.0	-3.1	20.0
Ethyl methacrylate	Ave	0.9721	1.022		26.3	25.0	5.2	20.0
trans-1,3-Dichloropropene	Ave	1.349	1.416	0.1000	26.2	25.0	4.9	20.0
1,1,2-Trichloroethane	Ave	0.7177	0.7092	0.1000	24.7	25.0	-1.2	20.0
2-Hexanone	Ave	0.6060	0.6613	0.1000	136	125	9.1	20.0
Tetrachloroethene	Ave	1.182	1.083	0.2000	22.9	25.0	-8.3	20.0
1,3-Dichloropropane	Ave	1.534	1.541		25.1	25.0	0.4	20.0
Dibromochloromethane	Ave	0.9137	0.8719	0.1000	23.9	25.0	-4.6	20.0
1,2-Dibromoethane	Ave	0.9070	0.8368		23.1	25.0	-7.7	20.0
Chlorobenzene	Ave	3.051	2.778	0.5000	22.8	25.0	-9.0	20.0
Ethylbenzene	Ave	4.914	4.638	0.1000	23.6	25.0	-5.6	20.0
1,1,1,2-Tetrachloroethane	Ave	1.036	0.9542		23.0	25.0	-7.9	20.0
m,p-Xylene	Ave	1.961	1.816	0.1000	23.2	25.0	-7.4	20.0
o-Xylene	Ave	1.946	1.769	0.3000	22.7	25.0	-9.1	20.0
Styrene	Ave	2.996	2.767	0.3000	23.1	25.0	-7.6	20.0
Isopropylbenzene	Ave	4.606	4.630	0.1000	25.1	25.0	0.5	20.0
Bromoform	Ave	0.5446	0.4818	0.1000	22.1	25.0	-11.5	50.0
1,1,2,2-Tetrachloroethane	Ave	1.069	1.079	0.3000	25.3	25.0	1.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2802	0.3367		30.0	25.0	20.1	50.0
N-Propylbenzene	Ave	5.403	5.551		25.7	25.0	2.8	20.0
1,2,3-Trichloropropane	Ave	0.3537	0.3632		25.7	25.0	2.7	20.0
Bromobenzene	Ave	1.259	1.210		24.0	25.0	-3.9	20.0
1,3,5-Trimethylbenzene	Ave	3.816	3.826		25.1	25.0	0.3	20.0
2-Chlorotoluene	Ave	1.143	1.122		24.5	25.0	-1.9	20.0
4-Chlorotoluene	Ave	1.203	1.166		24.2	25.0	-3.1	20.0
tert-Butylbenzene	Ave	0.9139	0.8558		23.4	25.0	-6.4	20.0
1,2,4-Trimethylbenzene	Ave	3.972	4.087		25.7	25.0	2.9	20.0
sec-Butylbenzene	Ave	4.851	4.905		25.3	25.0	1.1	20.0
4-Isopropyltoluene	Ave	4.149	4.128		24.9	25.0	-0.5	20.0
1,3-Dichlorobenzene	Ave	2.467	2.359	0.6000	23.9	25.0	-4.4	20.0
1,4-Dichlorobenzene	Ave	2.515	2.385	0.5000	23.7	25.0	-5.2	20.0
n-Butylbenzene	Ave	3.657	3.794		25.9	25.0	3.8	20.0
1,2-Dichlorobenzene	Ave	2.365	2.241	0.4000	23.7	25.0	-5.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-364568/3 Calibration Date: 06/28/2017 20:02
 Instrument ID: HP5973C Calib Start Date: 06/19/2017 15:19
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/19/2017 18:15
 Lab File ID: C5133.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	0.1703	0.1775	0.0500	26.1	25.0	4.2	50.0
1,2,4-Trichlorobenzene	Ave	1.680	1.549	0.2000	23.1	25.0	-7.8	20.0
Hexachlorobutadiene	Ave	0.5860	0.5679		24.2	25.0	-3.1	20.0
Naphthalene	Ave	3.958	3.772		23.8	25.0	-4.7	20.0
1,2,3-Trichlorobenzene	Ave	1.519	1.417		23.3	25.0	-6.7	20.0
Dibromofluoromethane (Surr)	Ave	1.248	1.314		26.3	25.0	5.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7328	0.8243		28.1	25.0	12.5	20.0
Toluene-d8 (Surr)	Ave	2.257	2.374		26.3	25.0	5.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8068	0.6949		21.5	25.0	-13.9	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5133.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 28-Jun-2017 20:02:30 ALS Bottle#: 13 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0063674-003
 Operator ID: RR Instrument ID: HP5973C
 Sublist: chrom-C-8260*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 20:29:54 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: reiler

Date: 28-Jun-2017 20:29:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	139746	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.835	11.835	0.000	85	298388	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.851	0.000	96	290500	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.894	8.894	0.000	93	183690	25.0	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	100	115195	25.0	28.1	
\$ 5 Toluene-d8 (Surr)	98	10.649	10.649	0.000	93	708455	25.0	26.3	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	93	207358	25.0	21.5	
10 Dichlorodifluoromethane	85	4.495	4.495	0.000	99	308303	25.0	23.1	
12 Chloromethane	50	4.910	4.910	0.000	99	301023	25.0	32.5	
13 Vinyl chloride	62	5.147	5.147	0.000	99	250698	25.0	30.0	
151 Butadiene	54	5.183	5.183	0.000	90	229279	25.0	29.8	
14 Bromomethane	94	5.740	5.740	0.000	90	258213	25.0	26.0	
15 Chloroethane	64	5.870	5.870	0.000	100	219700	25.0	26.3	
16 Dichlorofluoromethane	67	6.167	6.167	0.000	98	514074	25.0	25.7	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	99	474060	25.0	24.7	
18 Ethyl ether	59	6.535	6.535	0.000	94	251620	25.0	24.9	
20 Acrolein	56	6.760	6.760	0.000	100	197165	125.0	119.2	
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	94	292900	25.0	24.5	
22 1,1-Dichloroethene	96	6.878	6.878	0.000	98	276677	25.0	23.2	
23 Acetone	43	6.914	6.914	0.000	100	410498	125.0	131.7	
25 Iodomethane	142	7.104	7.104	0.000	99	479440	25.0	22.7	
26 Carbon disulfide	76	7.199	7.199	0.000	100	1030194	25.0	24.6	
27 Methyl acetate	43	7.210	7.210	0.000	98	1059801	125.0	130.7	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	91	490825	25.0	24.7	
30 Methylene Chloride	84	7.388	7.388	0.000	94	313556	25.0	24.6	
31 2-Methyl-2-propanol	59	7.400	7.400	0.000	97	293328	250.0	241.4	
32 Methyl tert-butyl ether	73	7.566	7.566	0.000	96	804359	25.0	24.9	
33 Acrylonitrile	53	7.614	7.614	0.000	99	1051774	250.0	264.8	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	99	311010	25.0	23.8	
35 Hexane	57	7.792	7.792	0.000	94	439155	25.0	25.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	7.969	7.969	0.000	97	1189217	50.0	54.0	
39 1,1-Dichloroethane	63	8.017	8.017	0.000	96	526807	25.0	24.7	
43 2-Butanone (MEK)	43	8.479	8.479	0.000	100	653991	125.0	129.5	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	82	343541	25.0	23.8	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	66	428173	25.0	25.5	
48 Chlorobromomethane	128	8.740	8.740	0.000	96	162300	25.0	23.1	
50 Chloroform	83	8.752	8.752	0.000	95	522710	25.0	23.9	
49 Tetrahydrofuran	42	8.764	8.764	0.000	88	170744	50.0	46.1	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	99	443469	25.0	24.4	
52 Cyclohexane	56	8.977	8.977	0.000	92	543299	25.0	24.6	
53 Isobutyl alcohol	43	8.989	8.989	0.000	95	375370	625.0	591.2	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	97	397578	25.0	24.8	
55 Carbon tetrachloride	117	9.072	9.072	0.000	98	391939	25.0	23.6	
57 Benzene	78	9.238	9.238	0.000	96	1173543	25.0	24.1	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	97	413914	25.0	24.8	
59 n-Heptane	43	9.274	9.274	0.000	93	421001	25.0	25.7	
62 Trichloroethene	95	9.713	9.713	0.000	98	302637	25.0	23.5	
64 Methylcyclohexane	83	9.867	9.867	0.000	91	482066	25.0	24.2	
65 1,2-Dichloropropane	63	9.914	9.914	0.000	96	299552	25.0	23.5	
66 1,4-Dioxane	88	9.985	9.985	0.000	94	58227	500.0	504.6	
67 Dibromomethane	93	10.045	10.045	0.000	97	180024	25.0	23.6	
68 Dichlorobromomethane	83	10.116	10.116	0.000	99	348362	25.0	24.0	
69 2-Chloroethyl vinyl ether	63	10.234	10.234	0.000	93	168285	25.0	24.2	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	99	451371	25.0	24.0	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	97	1374661	125.0	133.7	
74 Toluene	92	10.709	10.709	0.000	98	733239	25.0	24.2	
75 Ethyl methacrylate	69	10.780	10.780	0.000	90	305018	25.0	26.3	
77 trans-1,3-Dichloropropene	75	10.839	10.839	0.000	94	422428	25.0	26.2	
79 1,1,2-Trichloroethane	83	11.017	11.017	0.000	92	211623	25.0	24.7	
80 2-Hexanone	43	11.112	11.112	0.000	97	986620	125.0	136.4	
81 Tetrachloroethene	166	11.159	11.159	0.000	97	323160	25.0	22.9	
82 1,3-Dichloropropane	76	11.171	11.171	0.000	95	459853	25.0	25.1	
83 Chlorodibromomethane	129	11.385	11.385	0.000	91	260159	25.0	23.9	
84 Ethylene Dibromide	107	11.527	11.527	0.000	99	249699	25.0	23.1	
87 Chlorobenzene	112	11.859	11.859	0.000	91	828783	25.0	22.8	
88 Ethylbenzene	91	11.871	11.871	0.000	96	1383853	25.0	23.6	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	95	284715	25.0	23.0	
90 m-Xylene & p-Xylene	106	11.942	11.942	0.000	96	542001	25.0	23.2	
91 o-Xylene	106	12.298	12.298	0.000	97	527718	25.0	22.7	
92 Styrene	104	12.310	12.310	0.000	93	825685	25.0	23.1	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	1344997	25.0	25.1	
95 Bromoform	173	12.582	12.582	0.000	98	143751	25.0	22.1	
97 1,1,2,2-Tetrachloroethane	83	12.843	12.843	0.000	96	313499	25.0	25.2	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	93	97803	25.0	30.0	
99 N-Propylbenzene	91	12.926	12.926	0.000	99	1612640	25.0	25.7	
100 1,2,3-Trichloropropane	110	12.938	12.938	0.000	84	105499	25.0	25.7	
101 Bromobenzene	156	12.974	12.974	0.000	92	351529	25.0	24.0	
102 1,3,5-Trimethylbenzene	105	13.045	13.045	0.000	94	1111592	25.0	25.1	
103 2-Chlorotoluene	126	13.092	13.092	0.000	97	325827	25.0	24.5	
105 4-Chlorotoluene	126	13.175	13.175	0.000	98	338654	25.0	24.2	
106 tert-Butylbenzene	134	13.377	13.377	0.000	93	248612	25.0	23.4	
107 1,2,4-Trimethylbenzene	105	13.412	13.412	0.000	94	1187133	25.0	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	13.567	13.567	0.000	95	1424769	25.0	25.3	
110 4-Isopropyltoluene	119	13.673	13.673	0.000	97	1199056	25.0	24.9	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	98	685180	25.0	23.9	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	95	692885	25.0	23.7	
115 n-Butylbenzene	91	14.088	14.088	0.000	98	1102279	25.0	25.9	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	97	651115	25.0	23.7	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	80	51573	25.0	26.1	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	93	450115	25.0	23.1	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	97	164983	25.0	24.2	
121 Naphthalene	128	16.650	16.650	0.000	97	1095773	25.0	23.8	
122 1,2,3-Trichlorobenzene	180	17.029	17.029	0.000	95	411683	25.0	23.3	

Reagents:

8260 CORP mix_00101	Amount Added: 12.50	Units: uL	
GAS CORP mix_00226	Amount Added: 12.50	Units: uL	
C_8260_IS_00090	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170628-63674.b\\C5133.D

Injection Date: 28-Jun-2017 20:02:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

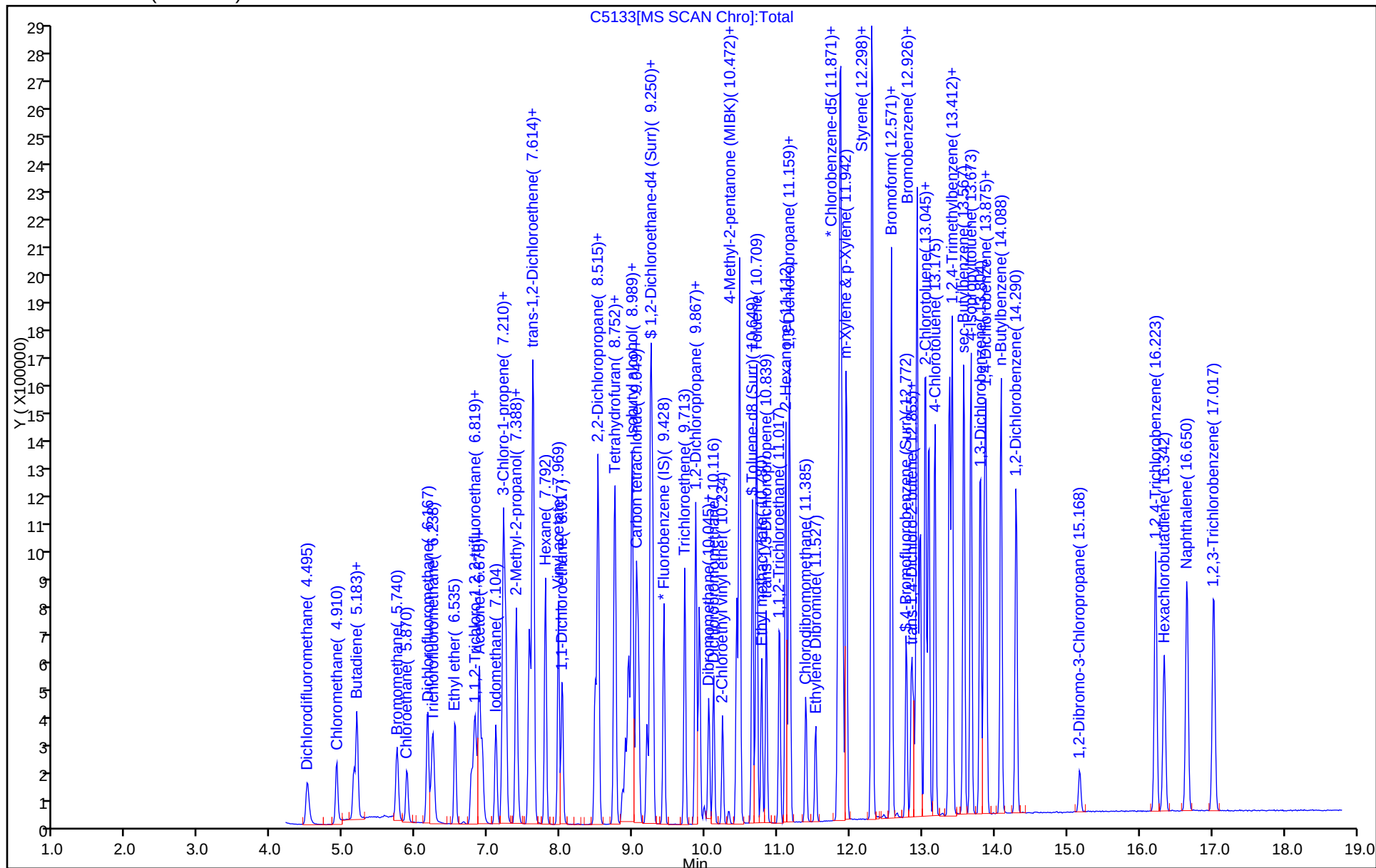
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: C-8260

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.: 480-120094-1

SDG No.: _____

Lab Sample ID: ICV 480-363987/27 Calibration Date: 06/27/2017 00:49

Instrument ID: HP5973N Calib Start Date: 06/26/2017 15:18

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/26/2017 18:28

Lab File ID: N9088.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.245	1.467	0.1000	29.5	25.0	17.8	50.0
Chloromethane	Ave	2.852	3.282	0.1000	28.8	25.0	15.1	30.0
Vinyl chloride	Ave	1.965	2.196	0.1000	27.9	25.0	11.8	30.0
Butadiene	Ave	2.379	2.847		29.9	25.0	19.7	30.0
Bromomethane	Ave	0.5554	0.6219	0.1000	28.0	25.0	12.0	50.0
Chloroethane	Ave	0.7885	0.8552	0.1000	27.1	25.0	8.5	50.0
Dichlorofluoromethane	Ave	1.890	2.111		27.9	25.0	11.7	30.0
Trichlorofluoromethane	Ave	1.658	1.857	0.1000	28.0	25.0	12.0	30.0
Ethyl ether	Ave	1.958	2.006		25.6	25.0	2.5	30.0
Acrolein	Ave	0.4088	0.4013		123	125	-1.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.016	1.170	0.1000	28.8	25.0	15.2	30.0
1,1-Dichloroethene	Ave	1.052	1.177	0.1000	28.0	25.0	11.9	30.0
Acetone	Ave	0.8081	0.8210	0.1000	127	125	1.6	50.0
Iodomethane	Ave	1.744	1.821		26.1	25.0	4.4	30.0
Carbon disulfide	Ave	3.624	3.937	0.1000	27.2	25.0	8.6	30.0
Allyl chloride	Ave	4.071	4.235		26.0	25.0	4.0	30.0
Methyl acetate	Ave	2.146	2.391	0.1000	139	125	11.4	50.0
Methylene Chloride	Ave	1.350	1.355	0.1000	25.1	25.0	0.4	30.0
2-Methyl-2-propanol	Ave	0.1639	0.1785		272	250	8.9	50.0
Methyl tert-butyl ether	Ave	3.938	4.247	0.1000	27.0	25.0	7.8	30.0
trans-1,2-Dichloroethene	Ave	1.213	1.316	0.1000	27.1	25.0	8.5	30.0
Acrylonitrile	Ave	1.096	1.209		276	250	10.3	30.0
Hexane	Ave	3.098	3.260		26.3	25.0	5.2	30.0
1,1-Dichloroethane	Ave	2.962	3.229	0.2000	27.3	25.0	9.0	30.0
Vinyl acetate	Ave	4.843	4.376		45.2	50.0	-9.6	30.0
2,2-Dichloropropane	Ave	1.320	1.178		22.3	25.0	-10.8	30.0
cis-1,2-Dichloroethene	Ave	1.343	1.487	0.1000	27.7	25.0	10.7	30.0
2-Butanone (MEK)	Ave	1.259	1.424	0.1000	141	125	13.1	30.0
Chlorobromomethane	Ave	0.6574	0.7271		27.7	25.0	10.6	30.0
Tetrahydrofuran	Ave	0.8942	1.033		57.8	50.0	15.6	30.0
Chloroform	Ave	2.202	2.324	0.2000	26.4	25.0	5.5	30.0
1,1,1-Trichloroethane	Ave	1.697	1.857	0.1000	27.4	25.0	9.4	30.0
Cyclohexane	Ave	3.419	3.953	0.1000	28.9	25.0	15.6	30.0
Carbon tetrachloride	Ave	1.522	1.707	0.1000	28.0	25.0	12.1	30.0
1,1-Dichloropropene	Ave	1.644	1.813		27.6	25.0	10.3	30.0
Isobutyl alcohol	Ave	0.1058	0.1172		692	625	10.7	50.0
Benzene	Ave	5.008	5.370	0.5000	26.8	25.0	7.2	30.0
1,2-Dichloroethane	Ave	2.491	2.560	0.1000	25.7	25.0	2.8	30.0
n-Heptane	Ave	3.583	3.828		26.7	25.0	6.8	30.0
Trichloroethene	Ave	1.240	1.407	0.2000	28.4	25.0	13.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1

SDG No.: _____

Lab Sample ID: ICV 480-363987/27 Calibration Date: 06/27/2017 00:49

Instrument ID: HP5973N Calib Start Date: 06/26/2017 15:18

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/26/2017 18:28

Lab File ID: N9088.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	1.989	2.239	0.1000	28.2	25.0	12.6	30.0
1,2-Dichloropropane	Ave	1.663	1.857	0.1000	27.9	25.0	11.7	30.0
Dibromomethane	Ave	0.8079	0.8603	0.1000	26.6	25.0	6.5	30.0
1,4-Dioxane	Ave	0.0033	0.0037		559	500	11.7	50.0
Bromodichloromethane	Ave	1.521	1.648	0.2000	27.1	25.0	8.4	30.0
2-Chloroethyl vinyl ether	Ave	1.100	1.233		28.0	25.0	12.1	30.0
cis-1,3-Dichloropropene	Ave	1.871	2.108	0.2000	28.2	25.0	12.7	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2532	0.2745	0.1000	136	125	8.4	30.0
Toluene	Ave	0.8764	0.9249	0.4000	26.4	25.0	5.5	30.0
trans-1,3-Dichloropropene	Ave	0.4756	0.5094	0.1000	26.8	25.0	7.1	30.0
Ethyl methacrylate	Ave	0.4207	0.4493		26.7	25.0	6.8	30.0
1,1,2-Trichloroethane	Ave	0.2441	0.2610	0.1000	26.7	25.0	6.9	30.0
Tetrachloroethene	Ave	0.3710	0.3989	0.2000	26.9	25.0	7.5	30.0
1,3-Dichloropropane	Ave	0.5247	0.5651		26.9	25.0	7.7	30.0
2-Hexanone	Ave	0.4857	0.5383	0.1000	139	125	10.8	30.0
Dibromochloromethane	Ave	0.3113	0.3425	0.1000	27.5	25.0	10.0	30.0
1,2-Dibromoethane	Ave	0.3064	0.3389		27.7	25.0	10.6	30.0
Chlorobenzene	Ave	0.9546	1.012	0.5000	26.5	25.0	6.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3220	0.3533		27.4	25.0	9.7	30.0
Ethylbenzene	Ave	1.597	1.712	0.1000	26.8	25.0	7.2	30.0
m,p-Xylene	Ave	0.6135	0.6830	0.1000	27.8	25.0	11.3	30.0
o-Xylene	Ave	0.6125	0.6693	0.3000	27.3	25.0	9.3	30.0
Styrene	Ave	1.024	1.114	0.3000	27.2	25.0	8.8	30.0
Bromoform	Ave	0.2035	0.2067	0.1000	25.4	25.0	1.6	50.0
Isopropylbenzene	Ave	3.296	3.557	0.1000	27.0	25.0	7.9	30.0
Bromobenzene	Ave	0.8293	0.8664		26.1	25.0	4.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8655	0.8439	0.3000	24.4	25.0	-2.5	30.0
1,2,3-Trichloropropane	Ave	0.2674	0.2772		25.9	25.0	3.7	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3774	0.4084		27.1	25.0	8.2	50.0
N-Propylbenzene	Ave	3.773	4.019		26.6	25.0	6.5	30.0
2-Chlorotoluene	Ave	0.7600	0.8106		26.7	25.0	6.6	30.0
1,3,5-Trimethylbenzene	Ave	2.720	2.943		27.1	25.0	8.2	30.0
4-Chlorotoluene	Ave	2.584	2.736		26.5	25.0	5.9	30.0
tert-Butylbenzene	Ave	0.5944	0.6373		26.8	25.0	7.2	30.0
1,2,4-Trimethylbenzene	Ave	2.783	2.997		26.9	25.0	7.7	30.0
sec-Butylbenzene	Ave	3.383	3.827		28.3	25.0	13.1	30.0
1,3-Dichlorobenzene	Ave	1.558	1.629	0.6000	26.1	25.0	4.6	30.0
4-Isopropyltoluene	Ave	2.866	3.268		28.5	25.0	14.0	30.0
1,4-Dichlorobenzene	Ave	1.634	1.703	0.5000	26.1	25.0	4.2	30.0
n-Butylbenzene	Ave	2.498	2.791		27.9	25.0	11.7	30.0
1,2-Dichlorobenzene	Ave	1.497	1.574	0.4000	26.3	25.0	5.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab Sample ID: ICV 480-363987/27 Calibration Date: 06/27/2017 00:49
 Instrument ID: HP5973N Calib Start Date: 06/26/2017 15:18
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/26/2017 18:28
 Lab File ID: N9088.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	0.1463	0.1458	0.0500	24.9	25.0	-0.3	50.0
1,2,4-Trichlorobenzene	Ave	0.8762	0.9526	0.2000	27.2	25.0	8.7	30.0
Hexachlorobutadiene	Ave	0.4158	0.4671		28.1	25.0	12.3	30.0
Naphthalene	Ave	2.154	2.479		28.8	25.0	15.1	30.0
1,2,3-Trichlorobenzene	Ave	0.7425	0.8092		27.3	25.0	9.0	30.0
Dibromofluoromethane (Surr)	Ave	1.093	1.122		25.7	25.0	2.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.638	1.668		25.5	25.0	1.8	30.0
Toluene-d8 (Surr)	Ave	1.205	1.199		24.9	25.0	-0.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4015	0.4049		25.2	25.0	0.9	30.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9088.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 27-Jun-2017 00:49:30 ALS Bottle#: 33 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 480-0063590-027
 Operator ID: LH Instrument ID: HP5973N
 Sublist:
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 10:16:22 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK042

First Level Reviewer: HillL

Date: 27-Jun-2017 09:53:37

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	5.510	5.510	0.000	97	192690	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.503	8.503	0.000	90	708020	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	94	351341	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.914	4.913	0.001	93	216111	25.0	25.7	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.224	5.218	0.006	0	321392	25.0	25.5	
\$ 6 Toluene-d8 (Surr)	98	7.019	7.018	0.000	95	848770	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	90	286680	25.0	25.2	
11 Dichlorodifluoromethane	85	1.367	1.367	0.000	98	282603	25.0	29.5	
13 Chloromethane	50	1.525	1.525	0.000	100	632416	25.0	28.8	
14 Vinyl chloride	62	1.635	1.634	0.001	98	423226	25.0	27.9	
144 Butadiene	54	1.659	1.659	0.000	90	548556	25.0	29.9	
15 Bromomethane	94	1.945	1.945	0.000	92	119830	25.0	28.0	
16 Chloroethane	64	2.042	2.042	0.000	95	164778	25.0	27.1	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	97	406851	25.0	27.9	
18 Trichlorofluoromethane	101	2.267	2.267	0.000	96	357770	25.0	28.0	
19 Ethyl ether	59	2.559	2.553	0.006	94	386600	25.0	25.6	
20 Acrolein	56	2.705	2.711	-0.006	96	386611	125.0	122.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	48	225529	25.0	28.8	
22 1,1-Dichloroethene	96	2.772	2.766	0.006	89	226826	25.0	28.0	
23 Acetone	43	2.863	2.863	0.000	98	791035	125.0	127.0	
24 Iodomethane	142	2.918	2.918	0.000	99	350932	25.0	26.1	
25 Carbon disulfide	76	2.967	2.967	0.000	98	758588	25.0	27.2	
27 3-Chloro-1-propene	41	3.131	3.131	0.000	87	815948	25.0	26.0	
28 Methyl acetate	43	3.168	3.167	0.001	99	2303306	125.0	139.3	
30 Methylene Chloride	84	3.259	3.259	0.000	87	261186	25.0	25.1	
31 2-Methyl-2-propanol	59	3.417	3.417	0.000	97	343957	250.0	272.2	
32 Methyl tert-butyl ether	73	3.496	3.490	0.006	91	818396	25.0	27.0	
33 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	87	253645	25.0	27.1	
34 Acrylonitrile	53	3.520	3.520	0.000	99	2328771	250.0	275.8	
35 Hexane	57	3.721	3.721	0.000	96	628075	25.0	26.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.910	3.910	0.000	96	622120	25.0	27.2	
39 Vinyl acetate	43	3.958	3.958	0.000	96	1686468	50.0	45.2	
42 2,2-Dichloropropane	77	4.433	4.427	0.006	81	226969	25.0	22.3	
43 cis-1,2-Dichloroethene	96	4.457	4.451	0.006	89	286502	25.0	27.7	
44 2-Butanone (MEK)	43	4.482	4.482	0.000	95	1371800	125.0	141.4	
47 Chlorobromomethane	128	4.682	4.682	0.000	83	140107	25.0	27.7	
49 Tetrahydrofuran	42	4.719	4.719	0.000	92	398260	50.0	57.8	
50 Chloroform	83	4.761	4.761	0.000	94	447779	25.0	26.4	
51 1,1,1-Trichloroethane	97	4.895	4.895	0.000	94	357828	25.0	27.4	
52 Cyclohexane	56	4.920	4.920	0.000	90	761628	25.0	28.9	
53 Carbon tetrachloride	117	5.041	5.041	0.000	95	328856	25.0	28.0	
54 1,1-Dichloropropene	75	5.047	5.047	0.000	85	349427	25.0	27.6	
56 Isobutyl alcohol	43	5.230	5.230	0.000	94	564644	625.0	692.1	
55 Benzene	78	5.248	5.242	0.006	94	1034837	25.0	26.8	
57 1,2-Dichloroethane	62	5.291	5.291	0.000	94	493219	25.0	25.7	
59 n-Heptane	43	5.455	5.449	0.006	95	737616	25.0	26.7	
60 Trichloroethene	95	5.857	5.856	0.001	93	271210	25.0	28.4	
62 Methylcyclohexane	83	5.996	5.996	0.000	91	431502	25.0	28.2	
63 1,2-Dichloropropane	63	6.082	6.082	0.000	90	357887	25.0	27.9	
64 Dibromomethane	93	6.209	6.209	0.000	93	165769	25.0	26.6	
66 1,4-Dioxane	88	6.228	6.228	0.000	47	52769	500.0	558.6	
67 Dichlorobromomethane	83	6.361	6.361	0.000	95	317637	25.0	27.1	
69 2-Chloroethyl vinyl ether	63	6.647	6.647	0.000	88	237555	25.0	28.0	
71 cis-1,3-Dichloropropene	75	6.787	6.787	0.000	83	406217	25.0	28.2	
72 4-Methyl-2-pentanone (MIBK)	58	6.927	6.927	0.000	98	971866	125.0	135.5	
73 Toluene	92	7.092	7.085	0.007	96	654836	25.0	26.4	
75 trans-1,3-Dichloropropene	75	7.347	7.347	0.000	91	360655	25.0	26.8	
77 Ethyl methacrylate	69	7.408	7.408	0.000	86	318119	25.0	26.7	
78 1,1,2-Trichloroethane	83	7.530	7.535	-0.005	92	184814	25.0	26.7	
79 Tetrachloroethene	166	7.633	7.627	0.006	96	282460	25.0	26.9	
80 1,3-Dichloropropane	76	7.694	7.700	-0.006	88	400108	25.0	26.9	
82 2-Hexanone	43	7.767	7.767	0.000	99	1905779	125.0	138.6	
83 Chlorodibromomethane	129	7.937	7.937	0.000	87	242483	25.0	27.5	
84 Ethylene Dibromide	107	8.041	8.040	0.001	97	239962	25.0	27.7	
85 Chlorobenzene	112	8.527	8.527	0.000	91	716393	25.0	26.5	
89 1,1,1,2-Tetrachloroethane	131	8.625	8.624	0.001	91	250171	25.0	27.4	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1212287	25.0	26.8	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	483572	25.0	27.8	
91 o-Xylene	106	9.178	9.178	0.000	97	473854	25.0	27.3	
92 Styrene	104	9.203	9.202	0.000	93	788590	25.0	27.2	
93 Bromoform	173	9.434	9.440	-0.006	96	146313	25.0	25.4	
95 Isopropylbenzene	105	9.568	9.561	0.007	96	1249680	25.0	27.0	
97 Bromobenzene	156	9.896	9.896	0.000	89	304409	25.0	26.1	
98 1,1,2,2-Tetrachloroethane	83	9.933	9.932	0.001	95	296488	25.0	24.4	
99 1,2,3-Trichloropropane	110	9.969	9.969	0.000	94	97398	25.0	25.9	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	71	143481	25.0	27.1	
100 N-Propylbenzene	91	9.987	9.987	0.000	99	1411908	25.0	26.6	
102 2-Chlorotoluene	126	10.085	10.085	0.001	95	284778	25.0	26.7	
104 1,3,5-Trimethylbenzene	105	10.170	10.170	0.000	95	1034169	25.0	27.1	
105 4-Chlorotoluene	91	10.194	10.194	0.000	98	961230	25.0	26.5	
106 tert-Butylbenzene	134	10.486	10.486	0.000	96	223903	25.0	26.8	
108 1,2,4-Trimethylbenzene	105	10.535	10.535	0.000	97	1052947	25.0	26.9	

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	10.693	10.693	0.000	95	1344646	25.0	28.3	
110 1,3-Dichlorobenzene	146	10.821	10.821	0.000	97	572202	25.0	26.1	
111 4-Isopropyltoluene	119	10.833	10.833	0.000	98	1148313	25.0	28.5	
113 1,4-Dichlorobenzene	146	10.906	10.906	0.000	93	598248	25.0	26.1	
115 n-Butylbenzene	91	11.222	11.216	0.006	98	980531	25.0	27.9	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	96	552943	25.0	26.3	
117 1,2-Dibromo-3-Chloropropan	75	11.977	11.977	0.001	73	51231	25.0	24.9	
119 1,2,4-Trichlorobenzene	180	12.670	12.664	0.006	95	334677	25.0	27.2	
120 Hexachlorobutadiene	225	12.792	12.792	0.000	96	164118	25.0	28.1	
121 Naphthalene	128	12.877	12.877	0.000	97	870808	25.0	28.8	
122 1,2,3-Trichlorobenzene	180	13.078	13.084	-0.006	96	284320	25.0	27.2	

Reagents:

SS GAS CORP_00189

Amount Added: 12.50

Units: uL

SS 8260 CORP_00048

Amount Added: 12.50

Units: uL

N_8260_Surr_00273

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00075

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20170626-63590.b\\N9088.D

Injection Date: 27-Jun-2017 00:49:30

Instrument ID: HP5973N

Operator ID: LH

Lims ID: ICV

Worklist Smp#: 27

Client ID:

Purge Vol: 5.000 mL

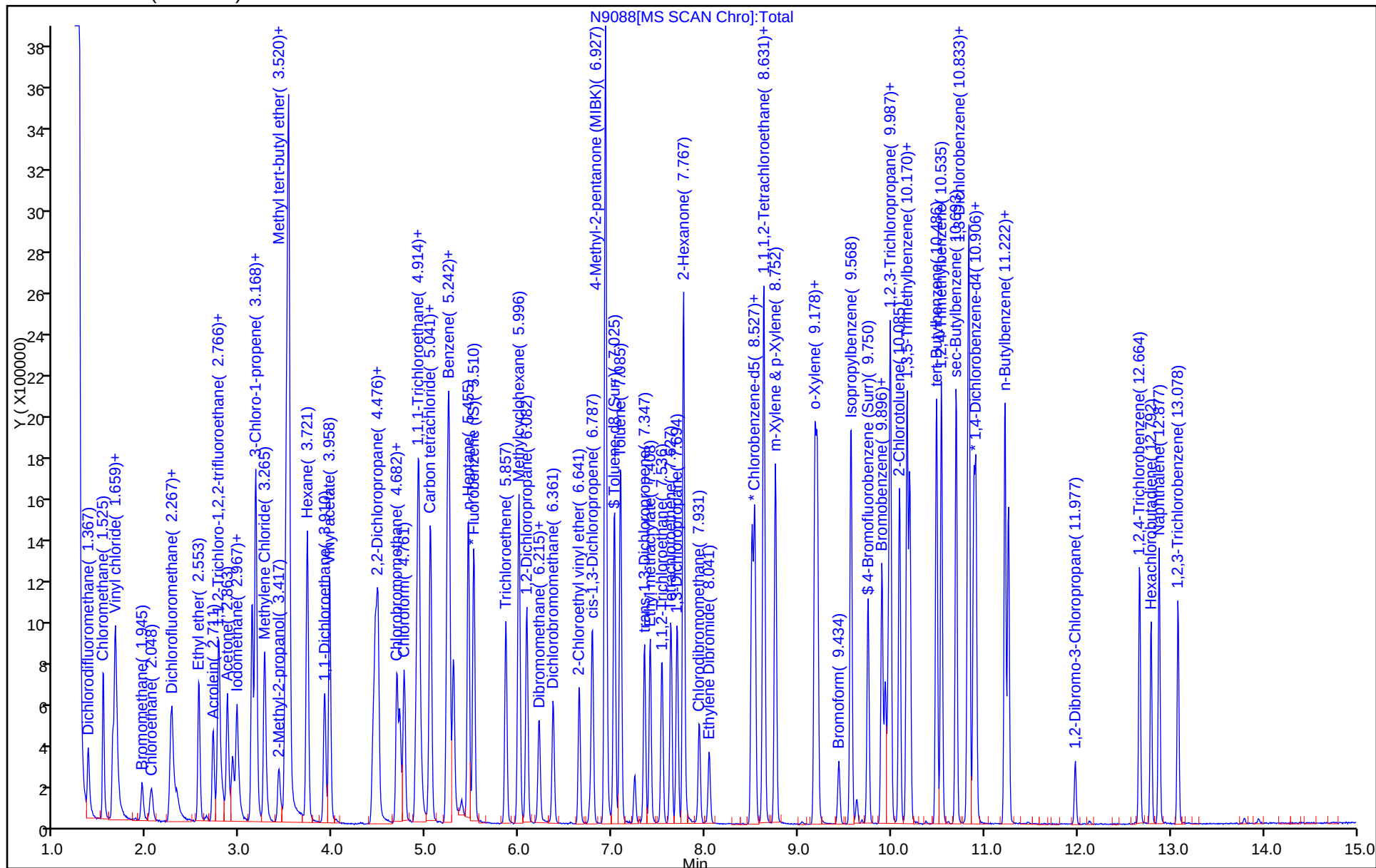
Dil. Factor: 1.0000

ALS Bottle#: 33

Method: N-8260

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.: 480-120094-1

SDG No.: _____

Lab Sample ID: CCVIS 480-364910/2 Calibration Date: 06/30/2017 10:12

Instrument ID: HP5973N Calib Start Date: 06/26/2017 15:18

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/26/2017 18:28

Lab File ID: N9249.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.245	1.172	0.1000	23.5	25.0	-5.9	50.0
Chloromethane	Ave	2.852	2.625	0.1000	23.0	25.0	-8.0	20.0
Vinyl chloride	Ave	1.965	1.881	0.1000	23.9	25.0	-4.3	20.0
Butadiene	Ave	2.379	2.493		26.2	25.0	4.8	20.0
Bromomethane	Ave	0.5554	0.7537	0.1000	33.9	25.0	35.7	50.0
Chloroethane	Ave	0.7885	0.9193	0.1000	29.2	25.0	16.6	50.0
Dichlorofluoromethane	Ave	1.890	2.095		27.7	25.0	10.9	20.0
Trichlorofluoromethane	Ave	1.658	1.807	0.1000	27.2	25.0	9.0	20.0
Ethyl ether	Ave	1.958	1.852		23.7	25.0	-5.4	20.0
Acrolein	Ave	0.4088	0.4061		124	125	-0.7	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.016	1.053	0.1000	25.9	25.0	3.7	20.0
1,1-Dichloroethene	Ave	1.052	1.038	0.1000	24.7	25.0	-1.4	20.0
Acetone	Ave	0.8081	0.9509	0.1000	147	125	17.7	50.0
Iodomethane	Ave	1.744	1.816		26.0	25.0	4.1	20.0
Carbon disulfide	Ave	3.624	3.526	0.1000	24.3	25.0	-2.7	20.0
Allyl chloride	Ave	4.071	3.507		21.5	25.0	-13.9	20.0
Methyl acetate	Ave	2.146	2.027	0.1000	118	125	-5.5	50.0
Methylene Chloride	Ave	1.350	1.182	0.1000	21.9	25.0	-12.5	20.0
2-Methyl-2-propanol	Ave	0.1639	0.1776		271	250	8.3	50.0
Methyl tert-butyl ether	Ave	3.938	3.811	0.1000	24.2	25.0	-3.2	20.0
trans-1,2-Dichloroethene	Ave	1.213	1.142	0.1000	23.5	25.0	-5.8	20.0
Acrylonitrile	Ave	1.096	1.053		240	250	-3.8	20.0
Hexane	Ave	3.098	2.988		24.1	25.0	-3.5	20.0
1,1-Dichloroethane	Ave	2.962	2.716	0.2000	22.9	25.0	-8.3	20.0
Vinyl acetate	Ave	4.843	5.089		52.5	50.0	5.1	20.0
2,2-Dichloropropane	Ave	1.320	1.224		23.2	25.0	-7.2	20.0
cis-1,2-Dichloroethene	Ave	1.343	1.305	0.1000	24.3	25.0	-2.9	20.0
2-Butanone (MEK)	Ave	1.259	1.318	0.1000	131	125	4.7	20.0
Chlorobromomethane	Ave	0.6574	0.6505		24.7	25.0	-1.0	20.0
Tetrahydrofuran	Ave	0.8942	0.8146		45.6	50.0	-8.9	20.0
Chloroform	Ave	2.202	2.035	0.2000	23.1	25.0	-7.6	20.0
1,1,1-Trichloroethane	Ave	1.697	1.601	0.1000	23.6	25.0	-5.7	20.0
Cyclohexane	Ave	3.419	3.326	0.1000	24.3	25.0	-2.7	20.0
Carbon tetrachloride	Ave	1.522	1.442	0.1000	23.7	25.0	-5.2	20.0
1,1-Dichloropropene	Ave	1.644	1.555		23.7	25.0	-5.4	20.0
Isobutyl alcohol	Ave	0.1058	0.1046		618	625	-1.2	50.0
Benzene	Ave	5.008	4.794	0.5000	23.9	25.0	-4.3	20.0
1,2-Dichloroethane	Ave	2.491	2.290	0.1000	23.0	25.0	-8.1	20.0
n-Heptane	Ave	3.583	3.512		24.5	25.0	-2.0	20.0
Trichloroethene	Ave	1.240	1.202	0.2000	24.2	25.0	-3.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-364910/2 Calibration Date: 06/30/2017 10:12
 Instrument ID: HP5973N Calib Start Date: 06/26/2017 15:18
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/26/2017 18:28
 Lab File ID: N9249.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	1.989	1.991	0.1000	25.0	25.0	0.0	20.0
1,2-Dichloropropane	Ave	1.663	1.605	0.1000	24.1	25.0	-3.5	20.0
Dibromomethane	Ave	0.8079	0.7711	0.1000	23.9	25.0	-4.6	20.0
1,4-Dioxane	Ave	0.0033	0.0035		524	500	4.7	50.0
Bromodichloromethane	Ave	1.521	1.489	0.2000	24.5	25.0	-2.1	20.0
2-Chloroethyl vinyl ether	Ave	1.100	1.082		24.6	25.0	-1.6	20.0
cis-1,3-Dichloropropene	Ave	1.871	1.955	0.2000	26.1	25.0	4.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2532	0.2487	0.1000	123	125	-1.8	20.0
Toluene	Ave	0.8764	0.8344	0.4000	23.8	25.0	-4.8	20.0
trans-1,3-Dichloropropene	Ave	0.4756	0.4614	0.1000	24.3	25.0	-3.0	20.0
Ethyl methacrylate	Ave	0.4207	0.4352		25.9	25.0	3.4	20.0
1,1,2-Trichloroethane	Ave	0.2441	0.2411	0.1000	24.7	25.0	-1.2	20.0
Tetrachloroethene	Ave	0.3710	0.3645	0.2000	24.6	25.0	-1.7	20.0
1,3-Dichloropropane	Ave	0.5247	0.5083		24.2	25.0	-3.1	20.0
2-Hexanone	Ave	0.4857	0.5120	0.1000	132	125	5.4	20.0
Dibromochloromethane	Ave	0.3113	0.3034	0.1000	24.4	25.0	-2.5	20.0
1,2-Dibromoethane	Ave	0.3064	0.3118		25.4	25.0	1.8	20.0
Chlorobenzene	Ave	0.9546	0.8989	0.5000	23.5	25.0	-5.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3220	0.3211		24.9	25.0	-0.3	20.0
Ethylbenzene	Ave	1.597	1.573	0.1000	24.6	25.0	-1.5	20.0
m,p-Xylene	Ave	0.6135	0.6140	0.1000	25.0	25.0	0.0	20.0
o-Xylene	Ave	0.6125	0.6095	0.3000	24.9	25.0	-0.5	20.0
Styrene	Ave	1.024	1.040	0.3000	25.4	25.0	1.6	20.0
Bromoform	Ave	0.2035	0.1869	0.1000	23.0	25.0	-8.1	50.0
Isopropylbenzene	Ave	3.296	3.330	0.1000	25.3	25.0	1.0	20.0
Bromobenzene	Ave	0.8293	0.7937		23.9	25.0	-4.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8655	0.8399	0.3000	24.3	25.0	-3.0	20.0
1,2,3-Trichloropropane	Ave	0.2674	0.2669		25.0	25.0	-0.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3774	0.2963		19.6	25.0	-21.5	50.0
N-Propylbenzene	Ave	3.773	3.873		25.7	25.0	2.7	20.0
2-Chlorotoluene	Ave	0.7600	0.7529		24.8	25.0	-0.9	20.0
1,3,5-Trimethylbenzene	Ave	2.720	2.796		25.7	25.0	2.8	20.0
4-Chlorotoluene	Ave	2.584	2.555		24.7	25.0	-1.1	20.0
tert-Butylbenzene	Ave	0.5944	0.6244		26.3	25.0	5.1	20.0
1,2,4-Trimethylbenzene	Ave	2.783	2.871		25.8	25.0	3.2	20.0
sec-Butylbenzene	Ave	3.383	3.551		26.2	25.0	5.0	20.0
1,3-Dichlorobenzene	Ave	1.558	1.557	0.6000	25.0	25.0	-0.0	20.0
4-Isopropyltoluene	Ave	2.866	3.116		27.2	25.0	8.7	20.0
1,4-Dichlorobenzene	Ave	1.634	1.597	0.5000	24.4	25.0	-2.3	20.0
n-Butylbenzene	Ave	2.498	2.646		26.5	25.0	5.9	20.0
1,2-Dichlorobenzene	Ave	1.497	1.475	0.4000	24.6	25.0	-1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-364910/2 Calibration Date: 06/30/2017 10:12
 Instrument ID: HP5973N Calib Start Date: 06/26/2017 15:18
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 06/26/2017 18:28
 Lab File ID: N9249.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	0.1463	0.1306	0.0500	22.3	25.0	-10.7	50.0
1,2,4-Trichlorobenzene	Ave	0.8762	0.8622	0.2000	24.6	25.0	-1.6	20.0
Hexachlorobutadiene	Ave	0.4158	0.4265		25.6	25.0	2.6	20.0
Naphthalene	Ave	2.154	2.099		24.4	25.0	-2.6	20.0
1,2,3-Trichlorobenzene	Ave	0.7425	0.6807		22.9	25.0	-8.3	20.0
Dibromofluoromethane (Surr)	Ave	1.093	1.179		27.0	25.0	7.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.638	1.763		26.9	25.0	7.6	20.0
Toluene-d8 (Surr)	Ave	1.205	1.248		25.9	25.0	3.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4015	0.3981		24.8	25.0	-0.8	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9249.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 30-Jun-2017 10:12:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0063728-002
 Operator ID: KN/CDC Instrument ID: HP5973N
 Sublist: chrom-N-8260*sub38
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Jun-2017 10:39:45 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: nowakk

Date: 30-Jun-2017 10:39:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.510	5.510	0.000	97	199055	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.503	8.503	0.000	89	736023	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.887	10.887	0.000	95	348483	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.913	4.913	0.000	93	234606	25.0	27.0	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.218	5.218	0.000	0	350941	25.0	26.9	
\$ 6 Toluene-d8 (Surr)	98	7.024	7.024	0.000	94	918733	25.0	25.9	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	89	292994	25.0	24.8	
11 Dichlorodifluoromethane	85	1.361	1.361	0.000	97	233220	25.0	23.5	
13 Chloromethane	50	1.525	1.525	0.000	100	522438	25.0	23.0	
14 Vinyl chloride	62	1.628	1.628	0.000	98	374483	25.0	23.9	
144 Butadiene	54	1.659	1.659	0.000	94	496315	25.0	26.2	
15 Bromomethane	94	1.945	1.945	0.000	92	150029	25.0	33.9	
16 Chloroethane	64	2.042	2.042	0.000	96	182992	25.0	29.1	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	96	417099	25.0	27.7	
18 Trichlorofluoromethane	101	2.267	2.267	0.000	98	359695	25.0	27.2	
19 Ethyl ether	59	2.553	2.553	0.000	93	368677	25.0	23.7	
20 Acrolein	56	2.705	2.705	0.000	98	404132	125.0	124.1	
22 1,1-Dichloroethene	96	2.766	2.766	0.000	89	206520	25.0	24.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	47	209616	25.0	25.9	
23 Acetone	43	2.857	2.857	0.000	98	946382	125.0	147.1	
24 Iodomethane	142	2.918	2.918	0.000	99	361497	25.0	26.0	
25 Carbon disulfide	76	2.967	2.967	0.000	99	701954	25.0	24.3	
27 3-Chloro-1-propene	41	3.125	3.125	0.000	87	698061	25.0	21.5	
28 Methyl acetate	43	3.161	3.161	0.000	99	2017885	125.0	118.1	
30 Methylene Chloride	84	3.259	3.259	0.000	88	235210	25.0	21.9	
31 2-Methyl-2-propanol	59	3.411	3.411	0.000	98	353534	250.0	270.8	
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	92	758688	25.0	24.2	
33 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	89	227364	25.0	23.5	
34 Acrylonitrile	53	3.520	3.520	0.000	99	2096889	250.0	240.4	
35 Hexane	57	3.721	3.721	0.000	96	594793	25.0	24.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.904	3.904	0.000	96	540641	25.0	22.9	
39 Vinyl acetate	43	3.958	3.958	0.000	96	2025929	50.0	52.5	
42 2,2-Dichloropropane	77	4.427	4.427	0.000	82	243682	25.0	23.2	
43 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	89	259764	25.0	24.3	
44 2-Butanone (MEK)	43	4.475	4.475	0.000	96	1312257	125.0	130.9	
47 Chlorobromomethane	128	4.688	4.688	0.000	83	129493	25.0	24.7	
49 Tetrahydrofuran	42	4.713	4.713	0.000	92	324283	50.0	45.5	
50 Chloroform	83	4.761	4.761	0.000	95	405110	25.0	23.1	
51 1,1,1-Trichloroethane	97	4.895	4.895	0.000	95	318740	25.0	23.6	
52 Cyclohexane	56	4.919	4.919	0.000	90	662142	25.0	24.3	
53 Carbon tetrachloride	117	5.041	5.041	0.000	94	287102	25.0	23.7	
54 1,1-Dichloropropene	75	5.047	5.047	0.000	85	309623	25.0	23.7	
56 Isobutyl alcohol	43	5.224	5.224	0.000	97	520352	625.0	617.5	
55 Benzene	78	5.242	5.242	0.000	95	954274	25.0	23.9	
57 1,2-Dichloroethane	62	5.291	5.291	0.000	95	455744	25.0	23.0	
59 n-Heptane	43	5.455	5.455	0.000	96	699021	25.0	24.5	
60 Trichloroethene	95	5.856	5.856	0.000	93	239190	25.0	24.2	
62 Methylcyclohexane	83	5.996	5.996	0.000	91	396226	25.0	25.0	
63 1,2-Dichloropropane	63	6.081	6.081	0.000	90	319465	25.0	24.1	
64 Dibromomethane	93	6.209	6.209	0.000	95	153483	25.0	23.9	
66 1,4-Dioxane	88	6.221	6.221	0.000	43	51426	500.0	523.7	
67 Dichlorobromomethane	83	6.361	6.361	0.000	95	296334	25.0	24.5	
69 2-Chloroethyl vinyl ether	63	6.641	6.641	0.000	87	215411	25.0	24.6	
71 cis-1,3-Dichloropropene	75	6.787	6.787	0.000	84	389115	25.0	26.1	
72 4-Methyl-2-pentanone (MIBK)	58	6.927	6.927	0.000	98	915210	125.0	122.8	
73 Toluene	92	7.085	7.085	0.000	97	614119	25.0	23.8	
75 trans-1,3-Dichloropropene	75	7.347	7.347	0.000	90	339586	25.0	24.3	
77 Ethyl methacrylate	69	7.408	7.408	0.000	89	320298	25.0	25.9	
78 1,1,2-Trichloroethane	83	7.529	7.529	0.000	93	177484	25.0	24.7	
79 Tetrachloroethene	166	7.633	7.633	0.000	96	268266	25.0	24.6	
80 1,3-Dichloropropane	76	7.694	7.694	0.000	90	374117	25.0	24.2	
82 2-Hexanone	43	7.767	7.767	0.000	99	1884177	125.0	131.8	
83 Chlorodibromomethane	129	7.931	7.931	0.000	90	223291	25.0	24.4	
84 Ethylene Dibromide	107	8.040	8.040	0.000	97	229467	25.0	25.4	
85 Chlorobenzene	112	8.533	8.533	0.000	91	661580	25.0	23.5	
89 1,1,1,2-Tetrachloroethane	131	8.624	8.624	0.000	93	236303	25.0	24.9	
88 Ethylbenzene	91	8.630	8.630	0.000	98	1157847	25.0	24.6	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	451898	25.0	25.0	
91 o-Xylene	106	9.178	9.178	0.000	98	448584	25.0	24.9	
92 Styrene	104	9.202	9.202	0.000	94	765541	25.0	25.4	
93 Bromoform	173	9.433	9.433	0.000	96	137583	25.0	23.0	
95 Isopropylbenzene	105	9.567	9.567	0.000	96	1160391	25.0	25.3	
97 Bromobenzene	156	9.896	9.896	0.000	93	276584	25.0	23.9	
98 1,1,2,2-Tetrachloroethane	83	9.932	9.932	0.000	96	292694	25.0	24.3	
99 1,2,3-Trichloropropane	110	9.969	9.969	0.000	93	93019	25.0	25.0	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	68	103264	25.0	19.6	
100 N-Propylbenzene	91	9.993	9.993	0.000	99	1349760	25.0	25.7	
102 2-Chlorotoluene	126	10.084	10.084	0.000	95	262368	25.0	24.8	
104 1,3,5-Trimethylbenzene	105	10.170	10.170	0.000	94	974380	25.0	25.7	
105 4-Chlorotoluene	91	10.200	10.200	0.000	98	890423	25.0	24.7	
106 tert-Butylbenzene	134	10.486	10.486	0.000	95	217607	25.0	26.3	
108 1,2,4-Trimethylbenzene	105	10.535	10.535	0.000	98	1000397	25.0	25.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.693	10.693	0.000	96	1237465	25.0	26.2	
110 1,3-Dichlorobenzene	146	10.821	10.821	0.000	97	542633	25.0	25.0	
111 4-Isopropyltoluene	119	10.833	10.833	0.000	98	1085990	25.0	27.2	
113 1,4-Dichlorobenzene	146	10.906	10.906	0.000	81	556424	25.0	24.4	
115 n-Butylbenzene	91	11.222	11.222	0.000	98	922125	25.0	26.5	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	97	513894	25.0	24.6	
117 1,2-Dibromo-3-Chloropropan	75	11.976	11.976	0.000	74	45526	25.0	22.3	
119 1,2,4-Trichlorobenzene	180	12.670	12.670	0.000	94	300443	25.0	24.6	
120 Hexachlorobutadiene	225	12.792	12.792	0.000	97	148634	25.0	25.6	
121 Naphthalene	128	12.877	12.877	0.000	97	731364	25.0	24.4	
122 1,2,3-Trichlorobenzene	180	13.084	13.084	0.000	95	237227	25.0	22.9	

Reagents:

8260 CORP mix_00101	Amount Added: 12.50	Units: uL	
GAS CORP mix_00226	Amount Added: 12.50	Units: uL	
N_8260_Surr_00273	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00075	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20170630-63728.b\\N9249.D

Injection Date: 30-Jun-2017 10:12:30

Instrument ID: HP5973N

Operator ID: KN/CDC

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

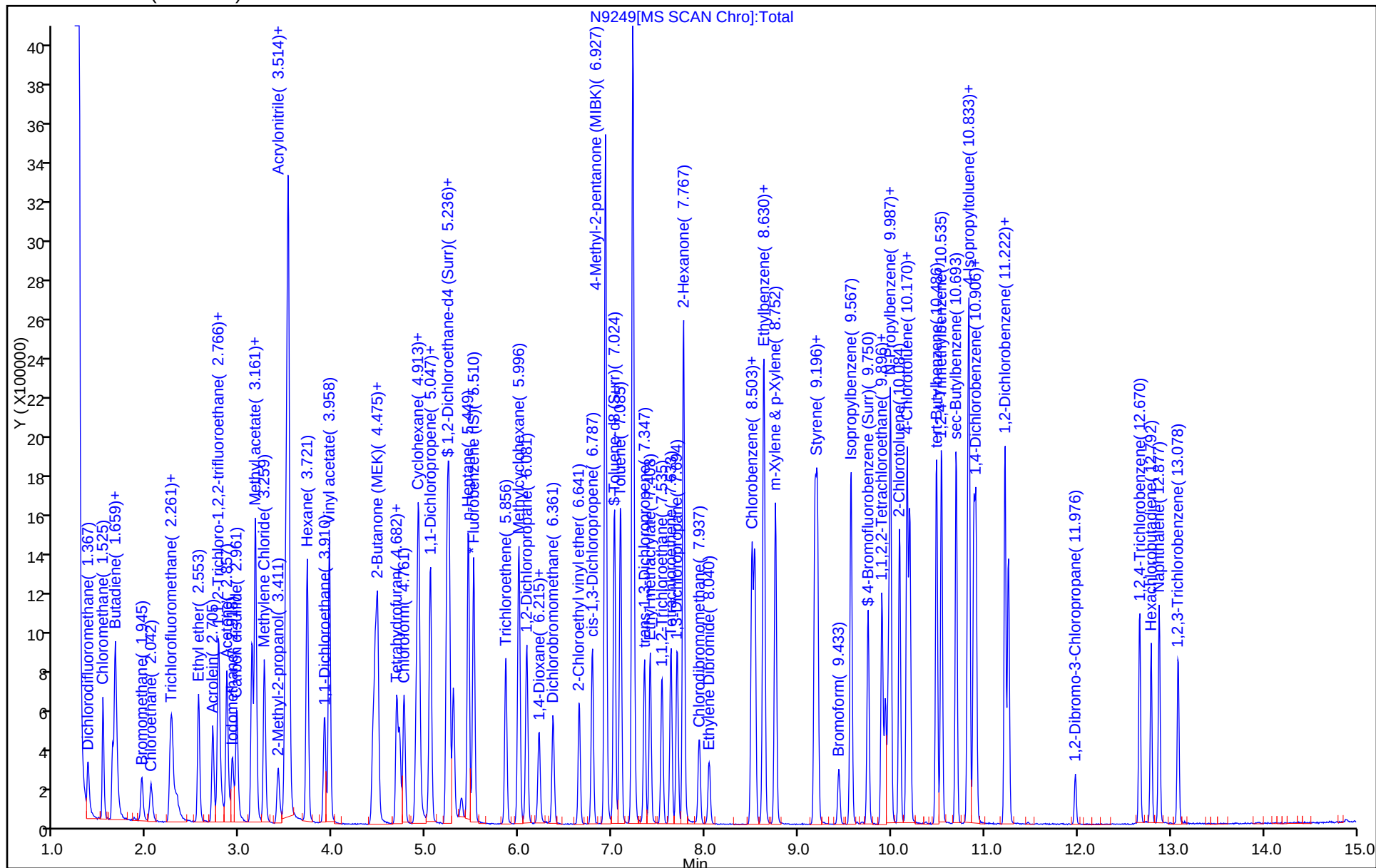
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4687.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 19-Jun-2017 14:22:30 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0063379-006
Operator ID: LH Instrument ID: HP5973C
Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 19-Jun-2017 23:45:20 Calib Date: 19-Jun-2017 22:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: reiler

Date: 19-Jun-2017 18:24:22

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

\$ 61 BFB	95	9.538	9.526	0.012	0	74698	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00063

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4687.D

Injection Date: 19-Jun-2017 14:22:30

Instrument ID: HP5973C

Lims ID: BFB

Client ID:

Operator ID: LH

ALS Bottle#: 14

Worklist Smp#: 6

Injection Vol: 1.0 uL

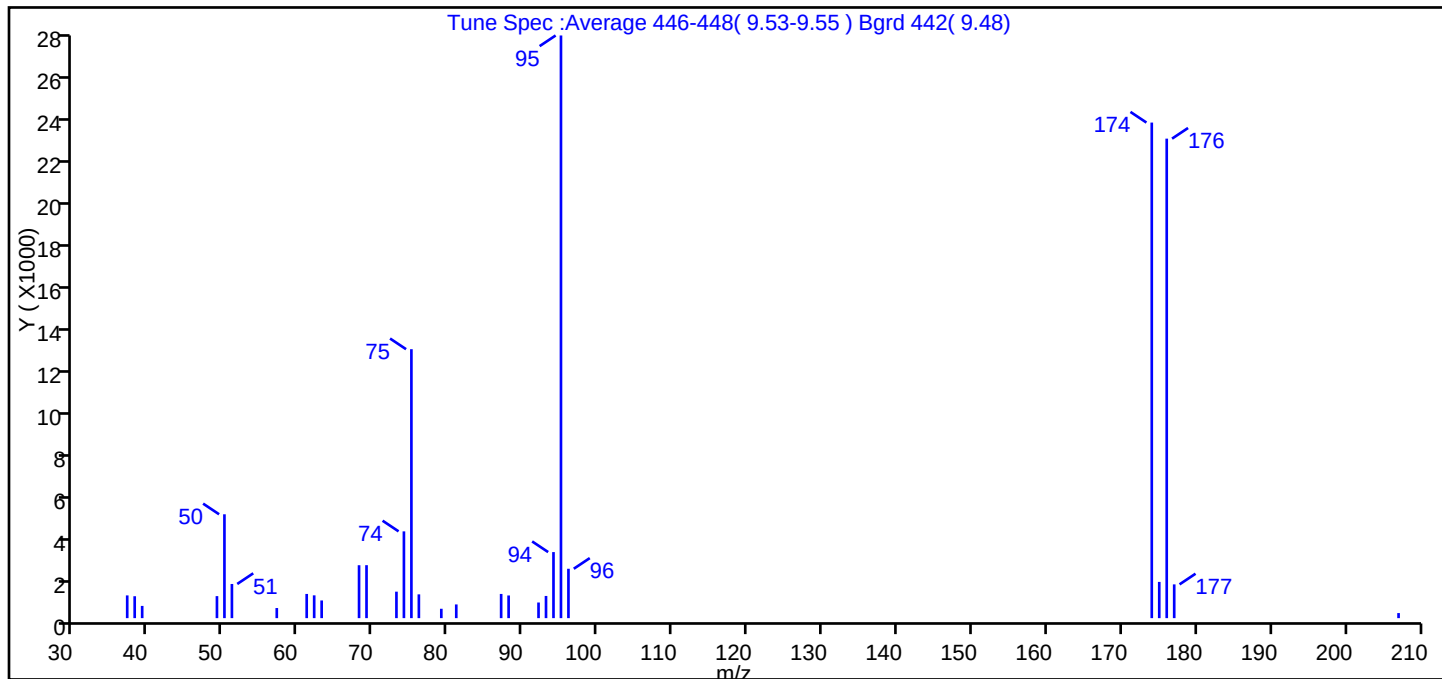
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.8
75	30 to 60% of m/z 95	46.2
96	5 to 9% of m/z 95	8.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	85.1
175	5 to 9% of m/z 174	6.2 (7.3)
176	Greater than 95% but less than 101% of m/z 174	82.3 (96.8)
177	5 to 9% of m/z 176	5.8 (7.0)

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4687.D\C-8260.rslt\spectra.d
Injection Date: 19-Jun-2017 14:22:30
Spectrum: Tune Spec :Average 446-448(9.53-9.55) Bgrd 442(9.48)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 30

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1086	62.00	1089	79.00	448	96.00	2359
38.00	1047	63.00	845	81.00	655	174.00	23672
39.00	584	68.00	2528	87.00	1156	175.00	1731
49.00	1052	69.00	2530	88.00	1083	176.00	22904
50.00	4961	73.00	1265	92.00	747	177.00	1613
51.00	1632	74.00	4145	93.00	1060	207.00	242
57.00	483	75.00	12847	94.00	3155		
61.00	1156	76.00	1136	95.00	27832		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5067.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 27-Jun-2017 21:12:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0063636-002
Operator ID: RR Instrument ID: HP5973C
Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jun-2017 21:25:42 Calib Date: 19-Jun-2017 22:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: reiler

Date: 27-Jun-2017 21:25:42

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

\$ 61 BFB	95	9.526	9.526	0.000	0	80578	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00063

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5067.D

Injection Date: 27-Jun-2017 21:12:30

Instrument ID: HP5973C

Lims ID: BFB

Client ID:

Operator ID: RR

ALS Bottle#: 1

Worklist Smp#: 2

Injection Vol: 1.0 uL

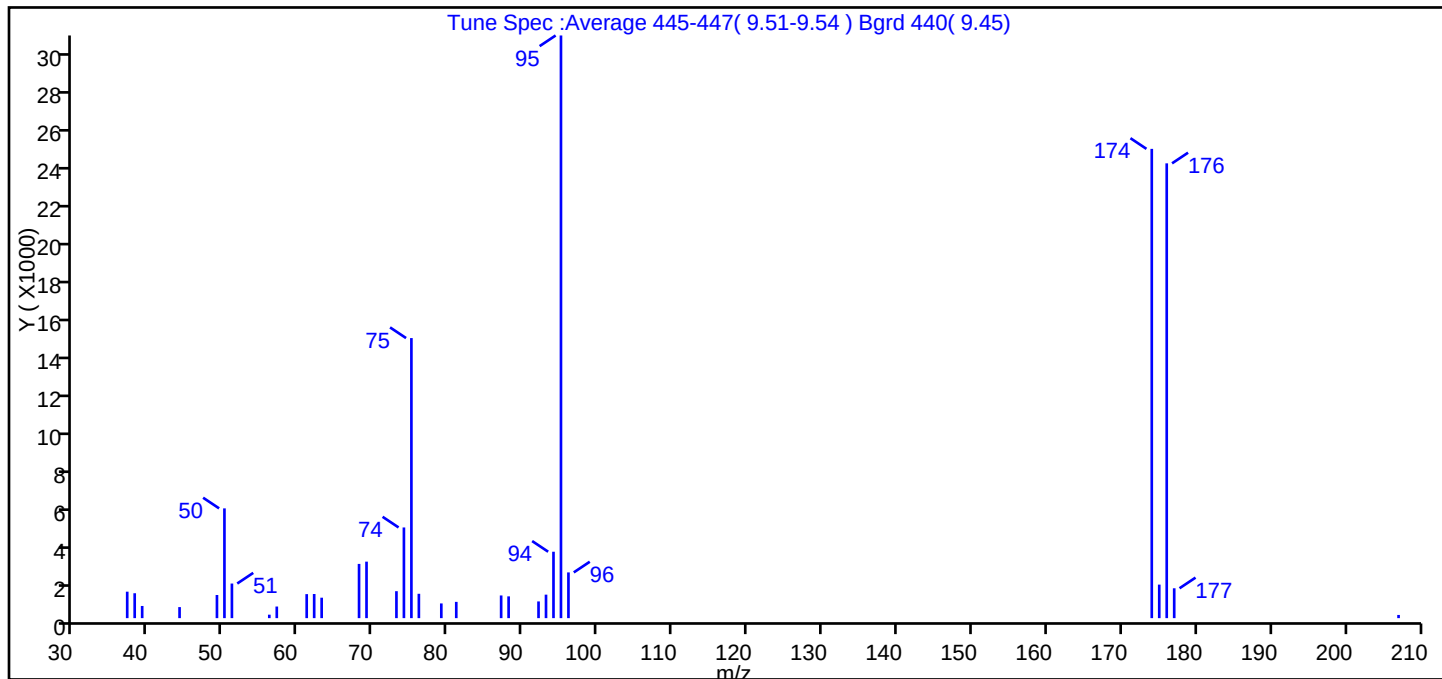
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.8
75	30 to 60% of m/z 95	48.1
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	80.5
175	5 to 9% of m/z 174	5.8 (7.1)
176	Greater than 95% but less than 101% of m/z 174	78.1 (96.9)
177	5 to 9% of m/z 176	5.1 (6.6)

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5067.D\C-8260.rslt\spectra.d
Injection Date: 27-Jun-2017 21:12:30
Spectrum: Tune Spec :Average 445-447(9.51-9.54) Bgrd 440(9.45)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 32

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1374	57.00	603	75.00	14543	94.00	3449
38.00	1293	61.00	1247	76.00	1265	95.00	30256
39.00	632	62.00	1253	79.00	764	96.00	2375
44.00	574	63.00	1062	81.00	845	174.00	24368
49.00	1202	68.00	2816	87.00	1178	175.00	1741
50.00	5700	69.00	2934	88.00	1131	176.00	23616
51.00	1797	73.00	1400	92.00	868	177.00	1551
56.00	180	74.00	4709	93.00	1220	207.00	166

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5132.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 28-Jun-2017 19:32:30 ALS Bottle#: 12 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0063674-002
Operator ID: RR Instrument ID: HP5973C
Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Jun-2017 19:45:59 Calib Date: 19-Jun-2017 22:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: reiler

Date: 28-Jun-2017 19:45:59

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

\$ 61 BFB	95	9.526	9.526	0.000	0	77808	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00063

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5132.D

Injection Date: 28-Jun-2017 19:32:30

Instrument ID: HP5973C

Lims ID: BFB

Client ID:

Operator ID: RR

ALS Bottle#: 12 Worklist Smp#: 2

Injection Vol: 1.0 uL

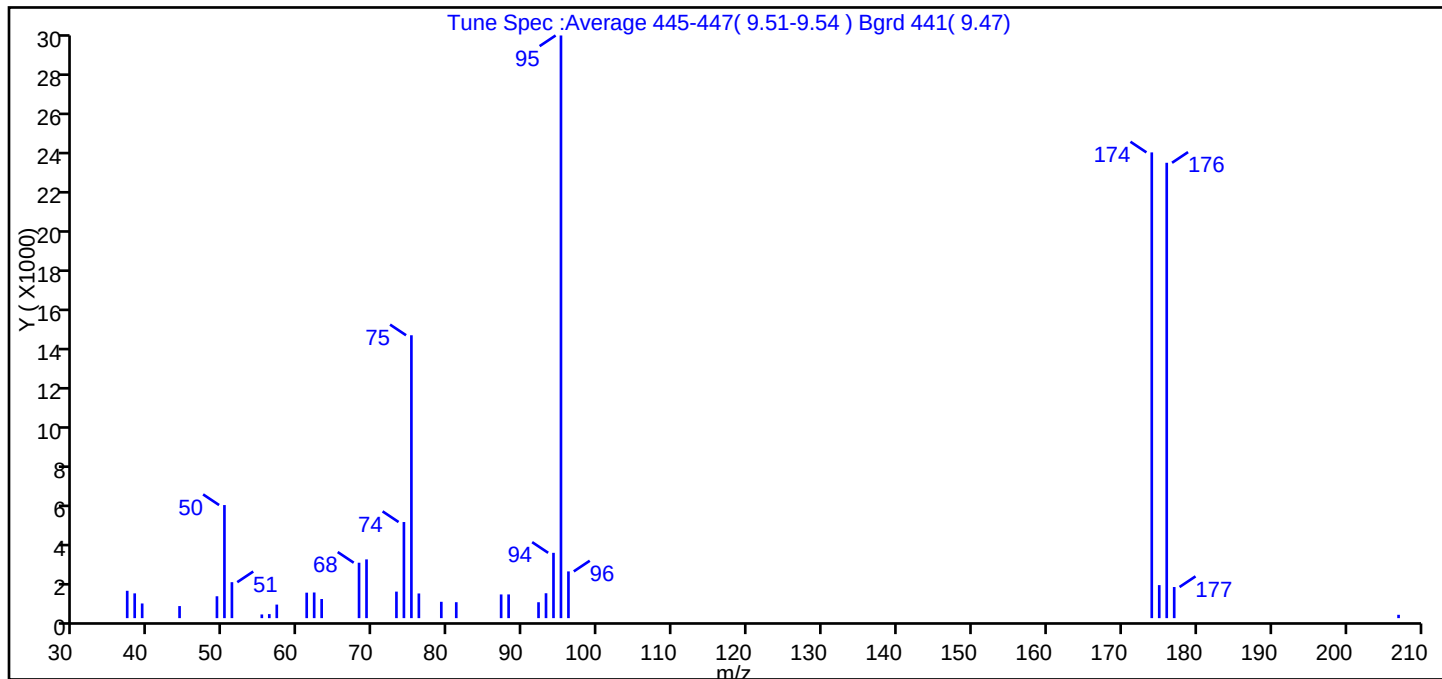
Dil. Factor: 1.0000

Method: C-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.4
75	30 to 60% of m/z 95	48.6
96	5 to 9% of m/z 95	8.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	79.9
175	5 to 9% of m/z 174	5.7 (7.1)
176	Greater than 95% but less than 101% of m/z 174	78.2 (97.8)
177	5 to 9% of m/z 176	5.3 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5132.D\C-8260.rslt\spectra.d
Injection Date: 28-Jun-2017 19:32:30
Spectrum: Tune Spec :Average 445-447(9.51-9.54) Bgrd 441(9.47)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1370	57.00	679	76.00	1236	96.00	2341
38.00	1241	61.00	1276	79.00	819	174.00	23328
39.00	735	62.00	1285	81.00	799	175.00	1654
44.00	605	63.00	958	87.00	1187	176.00	22808
49.00	1096	68.00	2776	88.00	1188	177.00	1559
50.00	5664	69.00	2943	92.00	797	207.00	168
51.00	1801	73.00	1329	93.00	1247		
55.00	185	74.00	4814	94.00	3272		
56.00	202	75.00	14169	95.00	29184		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9065.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Jun-2017 14:23:30 ALS Bottle#: 10 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0063590-004
Operator ID: LH Instrument ID: HP5973N
Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jun-2017 10:18:37 Calib Date: 26-Jun-2017 23:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK042

First Level Reviewer: sonkera

Date: 26-Jun-2017 22:12:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 BFB	95	4.382	4.382	0.000	88	422417	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

BFB_WRK_00063

Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9065.D

Injection Date: 26-Jun-2017 14:23:30

Instrument ID: HP5973N

Lims ID: BFB

Client ID:

Operator ID: LH

ALS Bottle#: 10 Worklist Smp#: 4

Injection Vol: 1.0 uL

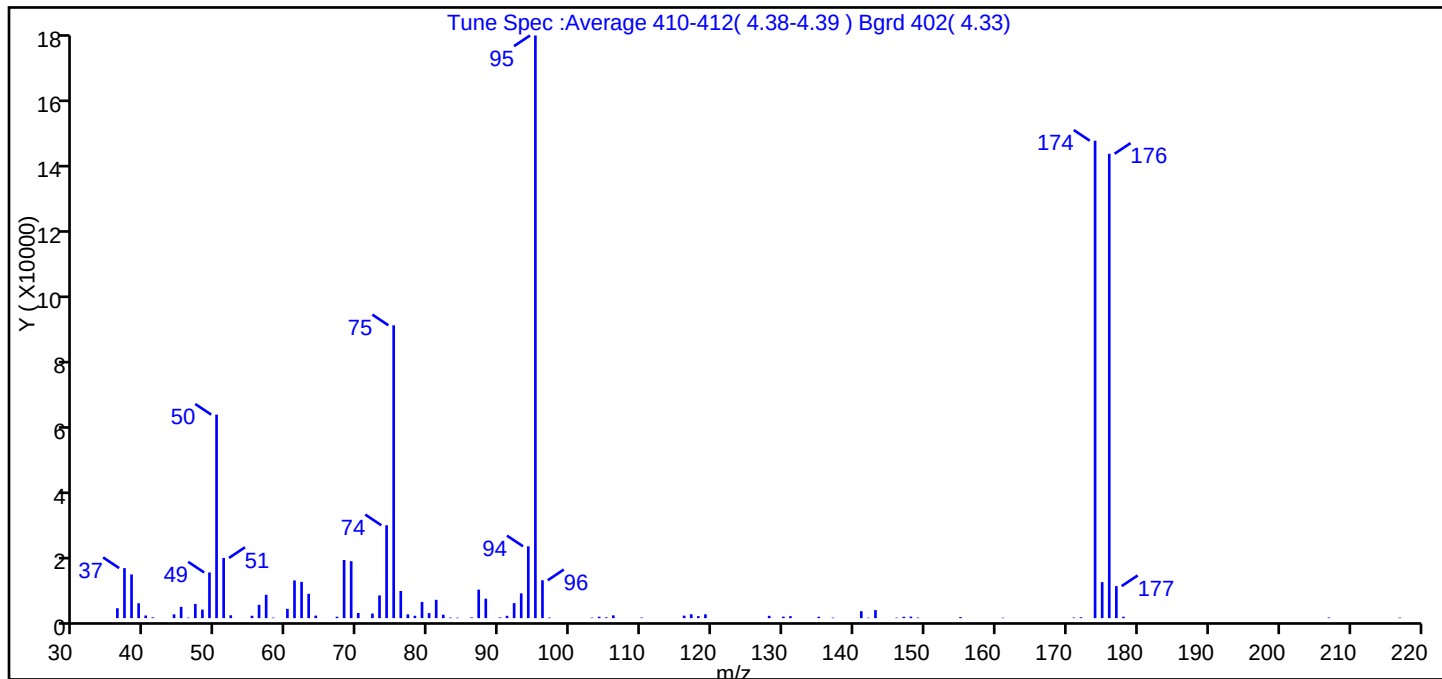
Dil. Factor: 1.0000

Method: N-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	34.9
75	30 to 60% of m/z 95	50.3
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	81.9
175	5 to 9% of m/z 174	6.2 (7.6)
176	Greater than 95% but less than 101% of m/z 174	79.7 (97.3)
177	5 to 9% of m/z 176	5.5 (6.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9065.D\N-8260.rslt\spectra.d
Injection Date: 26-Jun-2017 14:23:30
Spectrum: Tune Spec :Average 410-412(4.38-4.39) Bgrd 402(4.33)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2965	62.00	10831	87.00	8510	131.00	582
37.00	14945	63.00	7268	88.00	5814	135.00	410
38.00	13043	64.00	762	90.00	212	137.00	165
39.00	4446	67.00	421	91.00	694	141.00	2075
40.00	787	68.00	17368	92.00	4487	142.00	144
41.00	241	69.00	17016	93.00	7408	143.00	2397
44.00	1138	70.00	1545	94.00	21456	146.00	146
45.00	3378	72.00	1361	95.00	174016	147.00	402
46.00	158	73.00	6783	96.00	11321	148.00	451
47.00	4247	74.00	27744	97.00	180	149.00	174
48.00	2552	75.00	87464	103.00	153	155.00	325
49.00	13639	76.00	8110	104.00	428	161.00	140
50.00	60776	77.00	1126	105.00	242	171.00	179
51.00	17976	78.00	710	106.00	827	172.00	256
52.00	858	79.00	4846	110.00	173	174.00	142592
55.00	714	80.00	1505	116.00	747	175.00	10771
56.00	3981	81.00	5473	117.00	1161	176.00	138688
57.00	6972	82.00	1030	118.00	594	177.00	9566
58.00	165	83.00	176	119.00	1149	178.00	414
60.00	2771	84.00	152	128.00	691	207.00	188
61.00	11253	86.00	213	130.00	449	217.00	157

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9248.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Jun-2017 09:38:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0063728-001
Operator ID: KN/CDC Instrument ID: HP5973N
Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Jun-2017 10:40:16 Calib Date: 26-Jun-2017 23:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK018

First Level Reviewer: nowakk

Date: 30-Jun-2017 10:40:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
\$ 4 BFB	95	4.400	4.400	0.000	85	266280	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

BFB_WRK_00063

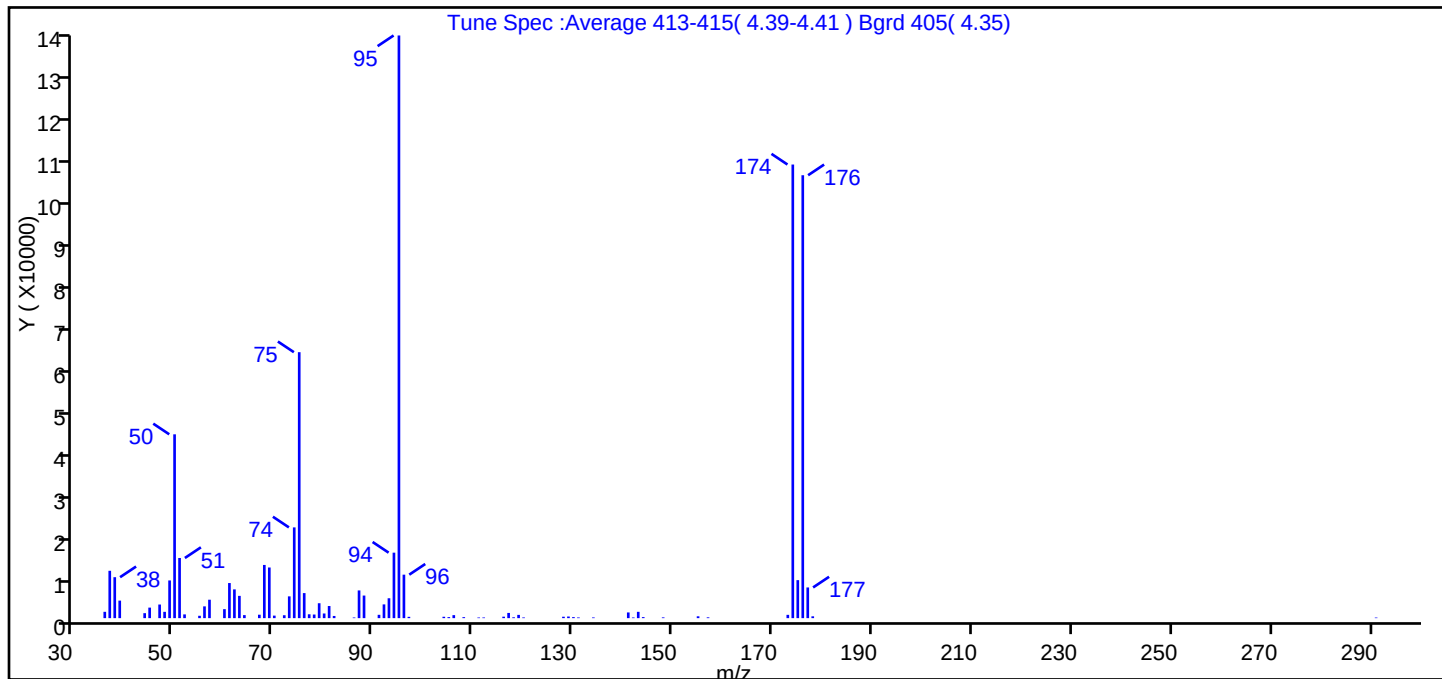
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9248.D
Injection Date: 30-Jun-2017 09:38:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: KN/CDC ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	31.5
75	30 to 60% of m/z 95	45.6
96	5 to 9% of m/z 95	7.5
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	77.9
175	5 to 9% of m/z 174	6.5 (8.4)
176	Greater than 95% but less than 101% of m/z 174	76.0 (97.6)
177	5 to 9% of m/z 176	5.3 (6.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9248.D\N-8260.rslt\spectra.d
Injection Date: 30-Jun-2017 09:38:30
Spectrum: Tune Spec :Average 413-415(4.39-4.41) Bgrd 405(4.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1438	64.00	690	91.00	758	129.00	369
37.00	10762	67.00	781	92.00	3124	130.00	229
38.00	9306	68.00	12089	93.00	4519	131.00	156
39.00	3984	69.00	11510	94.00	14881	134.00	157
44.00	1131	70.00	575	95.00	132416	141.00	1296
45.00	2393	72.00	662	96.00	9882	142.00	149
47.00	3095	73.00	4951	97.00	297	143.00	1436
48.00	1434	74.00	20624	104.00	312	144.00	233
49.00	8567	75.00	60440	105.00	234	148.00	170
50.00	41776	76.00	5693	106.00	683	155.00	418
51.00	13671	77.00	878	108.00	223	157.00	182
52.00	852	78.00	822	111.00	145	173.00	751
55.00	537	79.00	3388	112.00	150	174.00	103088
56.00	2674	80.00	1058	116.00	329	175.00	8637
57.00	4188	81.00	2754	117.00	1183	176.00	100656
60.00	2043	82.00	495	118.00	190	177.00	6975
61.00	7978	86.00	146	119.00	741	178.00	413
62.00	6535	87.00	6298	120.00	155	291.00	133
63.00	5061	88.00	5133	128.00	321		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-364320/8
 Matrix: Water Lab File ID: C5073.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/27/2017 23:48
 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.: 364320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.380	U	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	0.810	U	2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	0.810	U	1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	0.900	U	1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	88		73-120
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	87		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5073.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 27-Jun-2017 23:48:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0063636-008
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 00:12:03 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: reiler

Date: 28-Jun-2017 00:12:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	140789	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	86	298820	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.852	0.000	96	288472	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	153325	25.0	21.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	95028	25.0	23.0	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	622541	25.0	23.1	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	88	213036	25.0	22.1	
10 Dichlorodifluoromethane	85		4.495					ND	
11 Chlorodifluoromethane	51		4.543					ND	
12 Chloromethane	50		4.898					ND	
13 Vinyl chloride	62		5.135					ND	
151 Butadiene	54		5.183					ND	
14 Bromomethane	94		5.740					ND	
15 Chloroethane	64		5.871					ND	
16 Dichlorofluoromethane	67		6.155					ND	
17 Trichlorofluoromethane	101		6.238					ND	
148 Ethanol	45		6.440					ND	
18 Ethyl ether	59		6.535					ND	
19 Propene oxide	58		6.677					ND	
20 Acrolein	56		6.760					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		6.819					ND	
22 1,1-Dichloroethene	96		6.879					ND	
23 Acetone	43		6.914					ND	
24 Isopropyl alcohol	45		7.009					ND	
25 Iodomethane	142		7.104					ND	
26 Carbon disulfide	76	7.199	7.199	0.000	98	7990		0.1895	
27 Methyl acetate	43		7.211					ND	
28 3-Chloro-1-propene	41		7.246					ND	
29 Acetonitrile	40		7.246					ND	
30 Methylene Chloride	84		7.389					ND	
31 2-Methyl-2-propanol	59		7.400					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		7.566					ND	
33 Acrylonitrile	53		7.614					ND	
34 trans-1,2-Dichloroethene	96		7.626					ND	
35 Hexane	57		7.792					ND	
135 Halothane	117		7.922					ND	
36 Isopropyl ether	45		7.946					ND	
37 Vinyl acetate	43		7.970					ND	
39 1,1-Dichloroethane	63		8.017					ND	
38 1,1-Dimethoxyethane	75		8.029					ND	
40 2-Chloro-1,3-butadiene	53		8.088					ND	
41 Tert-butyl ethyl ether	59		8.254					ND	
42 Ethyl acetate	43		8.456					ND	
43 2-Butanone (MEK)	43		8.480					ND	
45 cis-1,2-Dichloroethene	96		8.515					ND	
44 2,2-Dichloropropane	77		8.515					ND	
46 Propionitrile	54		8.575					ND	
47 Methacrylonitrile	41		8.681					ND	
48 Chlorobromomethane	128		8.740					ND	
49 Tetrahydrofuran	42		8.752					ND	
51 1,1,1-Trichloroethane	97		8.942					ND	
52 Cyclohexane	56		8.978					ND	
53 Isobutyl alcohol	43		8.989					ND	
54 1,1-Dichloropropene	75		9.049					ND	
55 Carbon tetrachloride	117		9.072					ND	
147 t-Amyl alcohol	59		9.096					ND	
152 Isooctane	57		9.191					ND	
56 Tert-amyl methyl ether	73		9.203					ND	
58 1,2-Dichloroethane	62		9.250					ND	
59 n-Heptane	43		9.274					ND	
1 1,4-Difluorobenzene	114		9.464					ND	
60 n-Butanol	56		9.500					ND	
141 2,4,4-Trimethyl-1-pentene	55		9.594					ND	
142 Ethyl acrylate	55		9.654					ND	
62 Trichloroethene	95		9.713					ND	
140 2,4,4-Trimethyl-2-pentene	97		9.737					ND	
63 Methyl methacrylate	41		9.843					ND	
64 Methylcyclohexane	83		9.867					ND	
65 1,2-Dichloropropane	63		9.914					ND	
66 1,4-Dioxane	88		9.986					ND	
67 Dibromomethane	93		10.045					ND	
68 Dichlorobromomethane	83		10.116					ND	
69 2-Chloroethyl vinyl ether	63		10.235					ND	
70 2-Nitropropane	43		10.270					ND	
71 Epichlorohydrin	57		10.365					ND	
72 cis-1,3-Dichloropropene	75		10.436					ND	
73 4-Methyl-2-pentanone (MIBK)	43		10.472					ND	
74 Toluene	92		10.709					ND	
75 Ethyl methacrylate	69		10.780					ND	
76 2-Methylthiophene	97		10.828					ND	
77 trans-1,3-Dichloropropene	75		10.839					ND	
78 3-Methylthiophene	97		10.958					ND	
79 1,1,2-Trichloroethane	83		11.017					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 2-Hexanone	43		11.112					ND	
155 n-Butyl acetate	43		11.124					ND	
81 Tetrachloroethene	166		11.160					ND	
82 1,3-Dichloropropane	76		11.171					ND	
83 Chlorodibromomethane	129		11.385					ND	
84 Ethylene Dibromide	107		11.527					ND	
85 3-Chlorobenzotrifluoride	180		11.682					ND	
146 1-Chlorohexane	55		11.693					ND	
86 4-Chlorobenzotrifluoride	180		11.717					ND	
87 Chlorobenzene	112		11.859					ND	
88 Ethylbenzene	91		11.871					ND	
89 1,1,1,2-Tetrachloroethane	131		11.895					ND	
90 m-Xylene & p-Xylene	106		11.942					ND	
91 o-Xylene	106		12.298					ND	
92 Styrene	104		12.310					ND	
93 2-Chlorobenzotrifluoride	180		12.464					ND	
94 Isopropylbenzene	105		12.571					ND	
95 Bromoform	173		12.583					ND	
96 Cyclohexanone	55		12.773					ND	
97 1,1,2,2-Tetrachloroethane	83		12.844					ND	
98 trans-1,4-Dichloro-2-buten	53		12.879					ND	
100 1,2,3-Trichloropropane	110		12.927					ND	
99 N-Propylbenzene	91		12.927					ND	
101 Bromobenzene	156		12.974					ND	
102 1,3,5-Trimethylbenzene	105		13.033					ND	
103 2-Chlorotoluene	126		13.093					ND	
104 3-Chlorotoluene	126		13.128					ND	
105 4-Chlorotoluene	126		13.176					ND	
106 tert-Butylbenzene	134		13.377					ND	
107 1,2,4-Trimethylbenzene	105		13.413					ND	
108 Pentachloroethane	167		13.496					ND	
112 1,2,3-Trimethylbenzene	105		13.852					ND	
114 Dicyclopentadiene	66		13.911					ND	
150 Benzyl chloride	126		13.994					ND	
116 1,2-Dichlorobenzene	146		14.290					ND	
117 1,2-Dibromo-3-Chloropropan	75		15.168					ND	
118 1,3,5-Trichlorobenzene	180		15.370					ND	
119 1,2,4-Trichlorobenzene	180		16.223					ND	
120 Hexachlorobutadiene	225		16.342					ND	
121 Naphthalene	128		16.650					ND	
122 1,2,3-Trichlorobenzene	180		17.030					ND	
149 2-Methylnaphthalene	142	18.619	18.619	0.000	87	3274		0.1284	
143 Propene oxide TIC	1		0.000					ND	
137 Nitrobenzene	77		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
139 cis-1,4-Dichloro-2-butene	88		0.000					ND	
138 Methyl acrylate	1		0.000					ND	
136 Hexachloroethane	117		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		5.500					ND	
T 134 tert-amyl alcohol TIC	1		0.000					ND	
T 133 1-Bromopropane	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 132 Pentachloroethane TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 129 Aziridine TIC	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 131 Bromoethane TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 130 bis(chloromethyl)ether TIC	1		0.000					ND	

Reagents:

C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5073.D

Injection Date: 27-Jun-2017 23:48:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

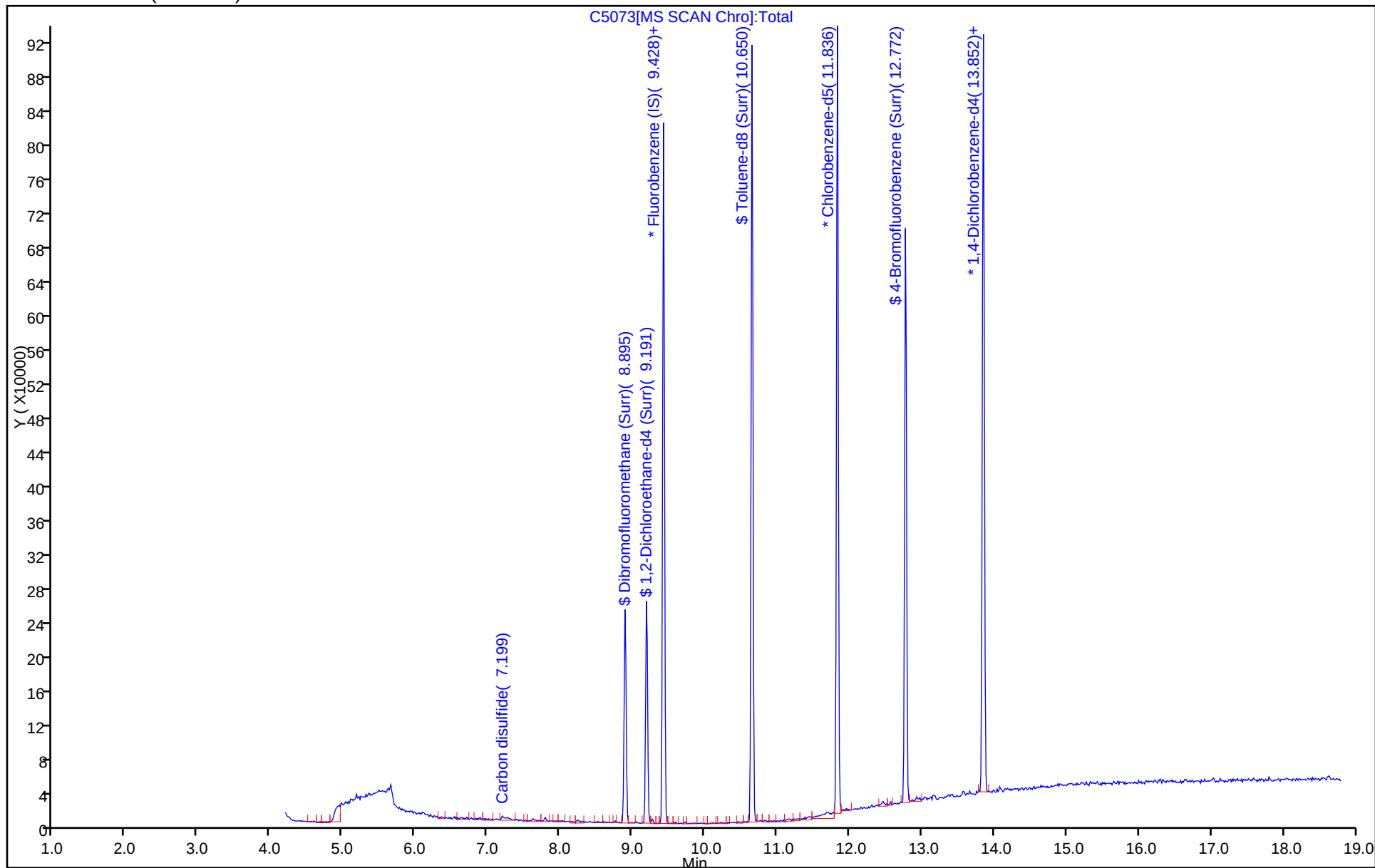
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-364568/7
 Matrix: Water Lab File ID: C5137.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 21:44
 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.: 364568 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.380	U	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	0.810	U	2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	0.810	U	1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	0.900	U	1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
460-00-4	4-Bromofluorobenzene (Surr)	85		73-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5137.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 28-Jun-2017 21:44:30 ALS Bottle#: 17 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0063674-007
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 22:43:15 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: reiler

Date: 28-Jun-2017 22:44:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	139871	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.835	11.836	-0.001	86	293243	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.852	-0.001	96	275574	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	176834	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	115469	25.0	28.2	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	694350	25.0	26.2	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	88	200566	25.0	21.2	
10 Dichlorodifluoromethane	85		4.495					ND	
11 Chlorodifluoromethane	51		4.531					ND	
12 Chloromethane	50		4.910					ND	
13 Vinyl chloride	62		5.147					ND	
151 Butadiene	54		5.183					ND	
15 Chloroethane	64		5.870					ND	
16 Dichlorofluoromethane	67		6.167					ND	
17 Trichlorofluoromethane	101		6.238					ND	
148 Ethanol	45		6.440					ND	
18 Ethyl ether	59		6.535					ND	
19 Propene oxide	58		6.677					ND	
20 Acrolein	56		6.760					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		6.819					ND	
22 1,1-Dichloroethene	96		6.878					ND	
23 Acetone	43		6.914					ND	
24 Isopropyl alcohol	45		7.009					ND	
25 Iodomethane	142		7.104					ND	
26 Carbon disulfide	76	7.199	7.199	0.000	98	5536		0.1322	
27 Methyl acetate	43		7.210					ND	
28 3-Chloro-1-propene	41		7.246					ND	
29 Acetonitrile	40	7.246	7.246	0.000	89	1257		1.74	
30 Methylene Chloride	84		7.388					ND	
31 2-Methyl-2-propanol	59		7.400					ND	
32 Methyl tert-butyl ether	73		7.566					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 Acrylonitrile	53		7.614					ND	
34 trans-1,2-Dichloroethene	96		7.626					ND	
35 Hexane	57		7.792					ND	
135 Halothane	117		7.922					ND	
36 Isopropyl ether	45		7.946					ND	
37 Vinyl acetate	43		7.969					ND	
39 1,1-Dichloroethane	63		8.017					ND	
38 1,1-Dimethoxyethane	75		8.029					ND	
40 2-Chloro-1,3-butadiene	53		8.077					ND	
41 Tert-butyl ethyl ether	59		8.254					ND	
42 Ethyl acetate	43		8.456					ND	
43 2-Butanone (MEK)	43		8.479					ND	
45 cis-1,2-Dichloroethene	96		8.515					ND	
44 2,2-Dichloropropane	77		8.515					ND	
46 Propionitrile	54		8.575					ND	
47 Methacrylonitrile	41		8.681					ND	
48 Chlorobromomethane	128		8.740					ND	
50 Chloroform	83		8.752					ND	
49 Tetrahydrofuran	42		8.764					ND	
51 1,1,1-Trichloroethane	97		8.942					ND	
52 Cyclohexane	56		8.977					ND	
53 Isobutyl alcohol	43		8.989					ND	
54 1,1-Dichloropropene	75		9.049					ND	
55 Carbon tetrachloride	117		9.072					ND	
147 t-Amyl alcohol	59		9.096					ND	
152 Isooctane	57		9.179					ND	
56 Tert-amyl methyl ether	73		9.203					ND	
58 1,2-Dichloroethane	62		9.250					ND	
59 n-Heptane	43	9.274	9.274	0.000	1	1564		0.0953	
1 1,4-Difluorobenzene	114		9.464					ND	
60 n-Butanol	56		9.500					ND	
141 2,4,4-Trimethyl-1-pentene	55		9.594					ND	
142 Ethyl acrylate	55		9.654					ND	
62 Trichloroethene	95		9.713					ND	
140 2,4,4-Trimethyl-2-pentene	97		9.737					ND	
63 Methyl methacrylate	41		9.843					ND	
64 Methylcyclohexane	83		9.867					ND	
65 1,2-Dichloropropane	63		9.914					ND	
66 1,4-Dioxane	88		9.985					ND	
67 Dibromomethane	93		10.045					ND	
68 Dichlorobromomethane	83		10.116					ND	
69 2-Chloroethyl vinyl ether	63		10.234					ND	
70 2-Nitropropane	43		10.270					ND	
71 Epichlorohydrin	57		10.365					ND	
72 cis-1,3-Dichloropropene	75		10.436					ND	
73 4-Methyl-2-pentanone (MIBK)	43		10.472					ND	
74 Toluene	92		10.709					ND	
75 Ethyl methacrylate	69		10.780					ND	
76 2-Methylthiophene	97		10.828					ND	
77 trans-1,3-Dichloropropene	75		10.839					ND	
78 3-Methylthiophene	97		10.958					ND	
79 1,1,2-Trichloroethane	83		11.017					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 2-Hexanone	43		11.112					ND	
155 n-Butyl acetate	43		11.124					ND	
81 Tetrachloroethene	166		11.159					ND	
82 1,3-Dichloropropane	76		11.171					ND	
83 Chlorodibromomethane	129		11.385					ND	
84 Ethylene Dibromide	107		11.527					ND	
85 3-Chlorobenzotrifluoride	180		11.682					ND	
146 1-Chlorohexane	55		11.693					ND	
86 4-Chlorobenzotrifluoride	180		11.717					ND	
87 Chlorobenzene	112		11.859					ND	
88 Ethylbenzene	91		11.871					ND	
89 1,1,1,2-Tetrachloroethane	131		11.895					ND	
90 m-Xylene & p-Xylene	106		11.942					ND	
91 o-Xylene	106		12.298					ND	
92 Styrene	104		12.310					ND	
93 2-Chlorobenzotrifluoride	180		12.464					ND	
94 Isopropylbenzene	105		12.571					ND	
95 Bromoform	173		12.582					ND	
96 Cyclohexanone	55		12.772					ND	
97 1,1,2,2-Tetrachloroethane	83		12.843					ND	
98 trans-1,4-Dichloro-2-buten	53		12.879					ND	
99 N-Propylbenzene	91		12.926					ND	
100 1,2,3-Trichloropropane	110		12.938					ND	
101 Bromobenzene	156		12.974					ND	
102 1,3,5-Trimethylbenzene	105		13.045					ND	
103 2-Chlorotoluene	126		13.092					ND	
104 3-Chlorotoluene	126		13.128					ND	
105 4-Chlorotoluene	126		13.175					ND	
106 tert-Butylbenzene	134		13.377					ND	
107 1,2,4-Trimethylbenzene	105		13.412					ND	
108 Pentachloroethane	167		13.496					ND	
109 sec-Butylbenzene	105		13.567					ND	
110 4-Isopropyltoluene	119		13.673					ND	
111 1,3-Dichlorobenzene	146		13.804					ND	
113 1,4-Dichlorobenzene	146		13.875					ND	
114 Dicyclopentadiene	66		13.911					ND	
150 Benzyl chloride	126		13.994					ND	
116 1,2-Dichlorobenzene	146		14.290					ND	
117 1,2-Dibromo-3-Chloropropan	75		15.168					ND	
118 1,3,5-Trichlorobenzene	180		15.370					ND	
119 1,2,4-Trichlorobenzene	180		16.223					ND	
120 Hexachlorobutadiene	225		16.342					ND	
121 Naphthalene	128		16.650					ND	
122 1,2,3-Trichlorobenzene	180		17.029					ND	
149 2-Methylnaphthalene	142		18.619					ND	
137 Nitrobenzene	77		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
136 Hexachloroethane	117		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
139 cis-1,4-Dichloro-2-butene	88		0.000					ND	
138 Methyl acrylate	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		5.500					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 129 Aziridine TIC	1		0.000					ND	
T 131 Bromoethane TIC	1		0.000					ND	
T 130 bis(chloromethyl)ether TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 133 1-Bromopropane	1		0.000					ND	
T 134 tert-amyl alcohol TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 132 Pentachloroethane TIC	1		0.000					ND	

Reagents:

C_8260_IS_00090	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5137.D

Injection Date: 28-Jun-2017 21:44:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

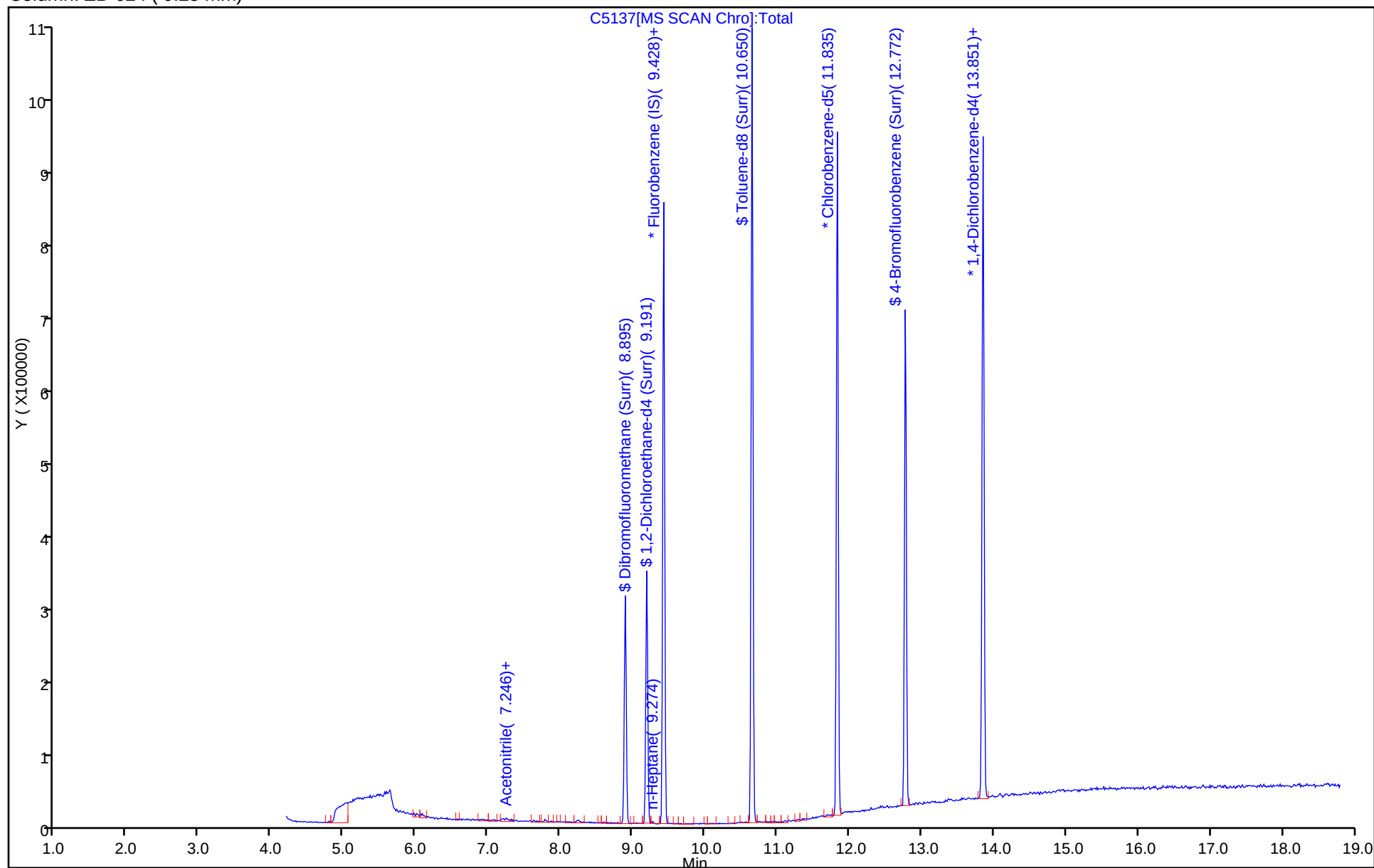
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-364910/6
 Matrix: Water Lab File ID: N9253.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/30/2017 12:28
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 364910 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.820	U	1.00	0.820
75-34-3	1,1-Dichloroethane	0.380	U	1.00	0.380
75-35-4	1,1-Dichloroethene	0.290	U	1.00	0.290
107-06-2	1,2-Dichloroethane	0.210	U	1.00	0.210
540-59-0	1,2-Dichloroethene, Total	0.810	U	2.00	0.810
67-64-1	Acetone	3.00	U	10.0	3.00
71-43-2	Benzene	0.410	U	1.00	0.410
75-00-3	Chloroethane	0.320	U	1.00	0.320
156-59-2	cis-1,2-Dichloroethene	0.810	U	1.00	0.810
100-41-4	Ethylbenzene	0.740	U	1.00	0.740
127-18-4	Tetrachloroethene	0.360	U	1.00	0.360
79-01-6	Trichloroethene	0.460	U	1.00	0.460
75-01-4	Vinyl chloride	0.900	U	1.00	0.900
1330-20-7	Xylenes, Total	0.660	U	2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9253.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 30-Jun-2017 12:28:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0063728-006
 Operator ID: KN/CDC Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Jun-2017 13:00:40 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: nowakk

Date: 30-Jun-2017 14:00:53

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	5.510	5.510	0.000	97	189120	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.503	8.503	0.000	90	707132	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.887	0.001	96	327093	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.913	4.913	0.000	92	229897	25.0	27.8	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.224	5.224	0.000	0	333157	25.0	26.9	
\$ 6 Toluene-d8 (Surr)	98	7.024	7.024	0.000	95	890080	25.0	26.1	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	90	281372	25.0	24.8	
11 Dichlorodifluoromethane	85		1.361					ND	
12 Chlorodifluoromethane	51		1.379					ND	
13 Chloromethane	50		1.525					ND	
14 Vinyl chloride	62		1.628					ND	
144 Butadiene	54		1.659					ND	
15 Bromomethane	94		1.945					ND	
16 Chloroethane	64		2.042					ND	
17 Dichlorofluoromethane	67		2.255					ND	
18 Trichlorofluoromethane	101		2.267					ND	
141 Ethanol	45		2.529					ND	
19 Ethyl ether	59		2.553					ND	
81 Propene oxide	58		2.626					ND	
20 Acrolein	56		2.705					ND	
22 1,1-Dichloroethene	96		2.766					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.766					ND	
23 Acetone	43		2.857					ND	
24 Iodomethane	142		2.918					ND	
26 Isopropyl alcohol	45		3.040					ND	
27 3-Chloro-1-propene	41		3.125					ND	
29 Acetonitrile	40		3.155					ND	
28 Methyl acetate	43		3.161					ND	
30 Methylene Chloride	84		3.259					ND	
31 2-Methyl-2-propanol	59		3.411					ND	
32 Methyl tert-butyl ether	73		3.490					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 trans-1,2-Dichloroethene	96		3.502					ND	
34 Acrylonitrile	53		3.520					ND	
35 Hexane	57		3.721					ND	
36 1,1-Dichloroethane	63		3.904					ND	
37 Isopropyl ether	45		3.940					ND	
39 Vinyl acetate	43		3.958					ND	
38 2-Chloro-1,3-butadiene	53		3.976					ND	
40 1,1-Dimethoxyethane	75		4.007					ND	
41 Tert-butyl ethyl ether	59		4.281					ND	
42 2,2-Dichloropropane	77		4.427					ND	
43 cis-1,2-Dichloroethene	96		4.457					ND	
44 2-Butanone (MEK)	43		4.475					ND	
45 Ethyl acetate	43		4.524					ND	
46 Propionitrile	54		4.561					ND	
48 Methacrylonitrile	67		4.682					ND	
47 Chlorobromomethane	128		4.688					ND	
49 Tetrahydrofuran	42		4.713					ND	
50 Chloroform	83		4.761					ND	
51 1,1,1-Trichloroethane	97		4.895					ND	
52 Cyclohexane	56		4.919					ND	
53 Carbon tetrachloride	117		5.041					ND	
54 1,1-Dichloropropene	75		5.047					ND	
56 Isobutyl alcohol	43		5.224					ND	
55 Benzene	78		5.242					ND	
146 Isooctane	57		5.272					ND	
140 t-Amyl alcohol	59		5.291					ND	
57 1,2-Dichloroethane	62		5.291					ND	
58 Tert-amyl methyl ether	73		5.333					ND	
59 n-Heptane	43		5.455					ND	
1 1,4-Difluorobenzene	114		5.619					ND	
61 n-Butanol	56		5.850					ND	
60 Trichloroethene	95		5.856					ND	
145 Ethyl acrylate	55		5.966					ND	
62 Methylcyclohexane	83		5.996					ND	
63 1,2-Dichloropropane	63		6.081					ND	
65 Methyl methacrylate	41		6.185					ND	
64 Dibromomethane	93		6.209					ND	
66 1,4-Dioxane	88		6.221					ND	
67 Dichlorobromomethane	83		6.361					ND	
68 2-Nitropropane	43		6.599					ND	
69 2-Chloroethyl vinyl ether	63		6.641					ND	
70 Epichlorohydrin	57		6.726					ND	
71 cis-1,3-Dichloropropene	75		6.787					ND	
72 4-Methyl-2-pentanone (MIBK)	58		6.927					ND	
73 Toluene	92		7.085					ND	
74 2-Methylthiophene	97		7.219					ND	
75 trans-1,3-Dichloropropene	75		7.347					ND	
76 3-Methylthiophene	97		7.383					ND	
77 Ethyl methacrylate	69		7.408					ND	
78 1,1,2-Trichloroethane	83		7.529					ND	
79 Tetrachloroethene	166		7.633					ND	
80 1,3-Dichloropropane	76		7.694					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
82 2-Hexanone	43		7.767					ND	
149 n-Butyl acetate	43		7.888					ND	
83 Chlorodibromomethane	129		7.931					ND	
84 Ethylene Dibromide	107		8.040					ND	
139 1-Chlorohexane	55		8.491					ND	
86 3-Chlorobenzotrifluoride	180		8.503					ND	
85 Chlorobenzene	112		8.533					ND	
87 4-Chlorobenzotrifluoride	180		8.564					ND	
89 1,1,1,2-Tetrachloroethane	131		8.624					ND	
88 Ethylbenzene	91		8.630					ND	
90 m-Xylene & p-Xylene	106		8.752					ND	
91 o-Xylene	106		9.178					ND	
92 Styrene	104		9.202					ND	
93 Bromoform	173		9.433					ND	
94 2-Chlorobenzotrifluoride	180		9.476					ND	
95 Isopropylbenzene	105		9.567					ND	
96 Cyclohexanone	55		9.707					ND	
97 Bromobenzene	156		9.896					ND	
98 1,1,2,2-Tetrachloroethane	83		9.932					ND	
99 1,2,3-Trichloropropane	110		9.969					ND	
101 trans-1,4-Dichloro-2-buten	53		9.981					ND	
100 N-Propylbenzene	91		9.993					ND	
102 2-Chlorotoluene	126		10.084					ND	
103 3-Chlorotoluene	126		10.151					ND	
104 1,3,5-Trimethylbenzene	105		10.170					ND	
105 4-Chlorotoluene	91		10.200					ND	
106 tert-Butylbenzene	134		10.486					ND	
107 Pentachloroethane	167		10.529					ND	
108 1,2,4-Trimethylbenzene	105		10.535					ND	
109 sec-Butylbenzene	105		10.693					ND	
110 1,3-Dichlorobenzene	146		10.821					ND	
111 4-Isopropyltoluene	119		10.833					ND	
112 Dicyclopentadiene	66		10.900					ND	
113 1,4-Dichlorobenzene	146		10.906					ND	
114 1,2,3-Trimethylbenzene	105		10.942					ND	
143 Benzyl chloride	126		11.046					ND	
115 n-Butylbenzene	91		11.222					ND	
116 1,2-Dichlorobenzene	146		11.259					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.976					ND	
118 1,3,5-Trichlorobenzene	180		12.128					ND	
119 1,2,4-Trichlorobenzene	180		12.670					ND	
120 Hexachlorobutadiene	225		12.792					ND	
121 Naphthalene	128		12.877					ND	
122 1,2,3-Trichlorobenzene	180		13.084					ND	
142 2-Methylnaphthalene	142		13.795					ND	
133 Halothane	1		0.000					ND	
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 126 Xylenes, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	
T 10 Ethylene oxide	1		0.000					ND	
T 129 tert-amyl alcohol TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 130 Propene oxide TIC	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 132 Bromoethane TIC	1		0.000					ND	
T 135 1-Bromopropane TIC	1		0.000					ND	

Reagents:

N_8260_Surr_00273

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00075

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9253.D

Injection Date: 30-Jun-2017 12:28:30

Instrument ID: HP5973N

Operator ID: KN/CDC

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

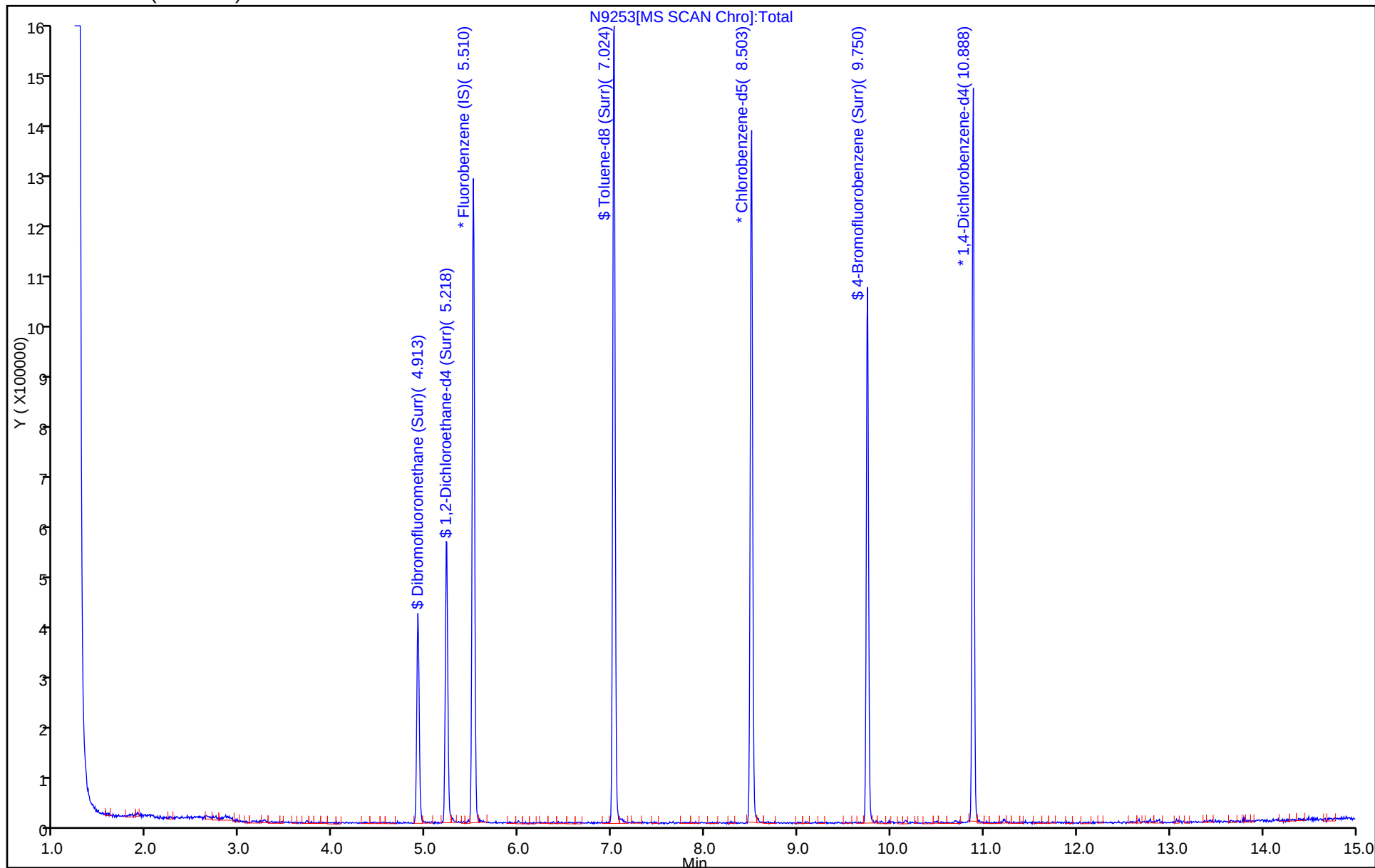
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-364320/5
 Matrix: Water Lab File ID: C5070.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/27/2017 22:31
 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.: 364320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.94		1.00	0.820
75-34-3	1,1-Dichloroethane	20.48		1.00	0.380
75-35-4	1,1-Dichloroethene	18.51		1.00	0.290
107-06-2	1,2-Dichloroethane	21.10		1.00	0.210
540-59-0	1,2-Dichloroethene, Total	39.00		2.00	0.810
67-64-1	Acetone	109.0		10.0	3.00
71-43-2	Benzene	19.82		1.00	0.410
75-00-3	Chloroethane	21.08		1.00	0.320
156-59-2	cis-1,2-Dichloroethene	19.73		1.00	0.810
100-41-4	Ethylbenzene	22.62		1.00	0.740
127-18-4	Tetrachloroethene	25.32		1.00	0.360
79-01-6	Trichloroethene	20.02		1.00	0.460
75-01-4	Vinyl chloride	23.59		1.00	0.900
1330-20-7	Xylenes, Total	44.32		2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
2037-26-5	Toluene-d8 (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	77		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5070.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Jun-2017 22:31:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0063636-005
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 22:55:25 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK027

First Level Reviewer: reiler

Date: 27-Jun-2017 22:55:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	168520	25.0	25.0	M
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	84	312860	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.852	0.000	64	311238	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	162728	25.0	19.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	94	110269	25.0	22.3	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	662347	25.0	23.4	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	87	223774	25.0	22.2	
10 Dichlorodifluoromethane	85	4.507	4.495	0.012	99	279174	25.0	17.3	
11 Chlorodifluoromethane	51	4.543	4.543	0.000	97	335458	25.0	23.5	
12 Chloromethane	50	4.910	4.898	0.012	99	282335	25.0	25.3	
13 Vinyl chloride	62	5.147	5.135	0.012	99	237363	25.0	23.6	
151 Butadiene	54	5.195	5.183	0.012	90	215748	25.0	23.3	
14 Bromomethane	94	5.740	5.740	0.000	90	250235	25.0	20.9	
15 Chloroethane	64	5.883	5.871	0.012	100	212548	25.0	21.1	
16 Dichlorofluoromethane	67	6.167	6.155	0.012	97	508320	25.0	21.1	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	99	452307	25.0	19.6	
148 Ethanol	45	6.452	6.440	0.012	73	125240	1000.0	840.5	M
18 Ethyl ether	59	6.547	6.535	0.012	92	259868	25.0	21.3	
19 Propene oxide	58	6.677	6.677	0.000	95	344732	NC	NC	
20 Acrolein	56	6.772	6.760	0.012	99	204765	125.0	102.7	
21 1,1,2-Trichloro-1,2,2-trif	101	6.820	6.819	0.001	94	277197	25.0	19.2	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	266793	25.0	18.5	
23 Acetone	43	6.926	6.914	0.012	100	409740	125.0	109.0	
24 Isopropyl alcohol	45	7.009	7.009	0.000	99	194461	250.0	254.4	
25 Iodomethane	142	7.104	7.104	0.000	99	481404	25.0	18.9	
26 Carbon disulfide	76	7.199	7.199	0.000	100	977862	25.0	19.4	
27 Methyl acetate	43	7.223	7.211	0.012	98	1086729	125.0	111.1	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	90	873924	25.0	36.5	
29 Acetonitrile	40	7.246	7.246	0.000	82	258441	250.0	296.4	
30 Methylene Chloride	84	7.389	7.389	0.000	94	318627	25.0	20.7	
31 2-Methyl-2-propanol	59	7.401	7.400	0.001	98	321387	250.0	219.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73	7.567	7.566	0.001	96	841853	25.0	21.6	
33 Acrylonitrile	53	7.614	7.614	0.000	99	1070563	250.0	223.5	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	99	303872	25.0	19.3	
35 Hexane	57	7.792	7.792	0.000	94	393517	25.0	19.2	
135 Halothane	117	7.922	7.922	0.000	94	198544	25.0	21.0	
36 Isopropyl ether	45	7.946	7.946	0.000	90	1037133	25.0	25.7	
37 Vinyl acetate	43	7.970	7.970	0.000	97	1689064	50.0	63.7	M
39 1,1-Dichloroethane	63	8.029	8.017	0.012	95	525776	25.0	20.5	
38 1,1-Dimethoxyethane	75	8.029	8.029	0.000	97	276176	125.0	138.5	
40 2-Chloro-1,3-butadiene	53	8.088	8.088	0.000	91	449317	25.0	26.3	
41 Tert-butyl ethyl ether	59	8.254	8.254	0.000	98	970918	25.0	25.6	
42 Ethyl acetate	43	8.468	8.456	0.012	99	1244510	50.0	113.3	
43 2-Butanone (MEK)	43	8.468	8.480	-0.012	99	1243194	125.0	204.2	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	82	343332	25.0	19.7	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	65	416961	25.0	20.6	
46 Propionitrile	54	8.575	8.575	0.000	99	425831	250.0	247.1	
47 Methacrylonitrile	41	8.681	8.681	0.000	94	1861291	250.0	255.3	M
48 Chlorobromomethane	128	8.741	8.740	0.001	92	168815	25.0	19.9	
50 Chloroform	83	8.752	8.752	0.000	94	519539	25.0	19.7	
49 Tetrahydrofuran	42	8.764	8.752	0.012	91	182793	50.0	40.9	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	437357	25.0	19.9	
52 Cyclohexane	56	8.990	8.978	0.012	92	522617	25.0	19.7	
53 Isobutyl alcohol	43	9.001	8.989	0.012	95	403862	625.0	527.5	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	97	384237	25.0	19.9	
55 Carbon tetrachloride	117	9.073	9.072	0.001	97	382656	25.0	19.1	
147 t-Amyl alcohol	59	9.096	9.096	0.000	94	275351	250.0	292.0	
152 Isooctane	57	9.191	9.191	0.000	96	910798	25.0	24.6	
56 Tert-amyl methyl ether	73	9.203	9.203	0.000	97	924330	25.0	25.4	
57 Benzene	78	9.239	9.239	0.001	96	1163003	25.0	19.8	
58 1,2-Dichloroethane	62	9.251	9.250	0.000	97	425090	25.0	21.1	
59 n-Heptane	43	9.274	9.274	0.000	93	395636	25.0	20.0	
1 1,4-Difluorobenzene	114	9.464	9.464	0.000	92	903034	25.0	22.4	
60 n-Butanol	56	9.500	9.500	0.000	91	210772	625.0	654.4	
141 2,4,4-Trimethyl-1-pentene	55	9.594	9.594	0.000	99	173274	NC	NC	
142 Ethyl acrylate	55	9.654	9.654	0.000	99	351028	25.0	25.9	
62 Trichloroethene	95	9.713	9.713	0.000	94	310321	25.0	20.0	
140 2,4,4-Trimethyl-2-pentene	97	9.737	9.737	0.000	83	700199	NC	NC	
63 Methyl methacrylate	41	9.843	9.843	0.000	93	724538	50.0	70.9	M
64 Methylcyclohexane	83	9.867	9.867	0.000	90	475765	25.0	19.8	
65 1,2-Dichloropropane	63	9.915	9.914	0.001	97	307371	25.0	20.0	
66 1,4-Dioxane	88	9.986	9.986	0.000	95	62066	500.0	513.0	
67 Dibromomethane	93	10.045	10.045	0.000	97	185258	25.0	20.1	
68 Dichlorobromomethane	83	10.116	10.116	0.000	99	364891	25.0	20.9	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	91	185181	25.0	22.0	
70 2-Nitropropane	43	10.270	10.270	0.000	98	145610	50.0	55.6	
71 Epichlorohydrin	57	10.365	10.365	0.000	99	304813	250.0	261.5	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	98	491963	25.0	21.7	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	96	1447620	125.0	134.3	
74 Toluene	92	10.709	10.709	0.000	98	746251	25.0	23.5	
75 Ethyl methacrylate	69	10.780	10.780	0.000	90	332471	25.0	27.3	
77 trans-1,3-Dichloropropene	75	10.840	10.839	0.001	94	443703	25.0	26.3	
79 1,1,2-Trichloroethane	83	11.029	11.017	0.012	92	218167	25.0	24.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 2-Hexanone	43	11.112	11.112	0.000	98	1511824	125.0	199.3	E
155 n-Butyl acetate	43	11.112	11.124	-0.012	89	1511824	25.0	101.9	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	374451	25.0	25.3	
82 1,3-Dichloropropane	76	11.172	11.171	0.001	94	469700	25.0	24.5	
83 Chlorodibromomethane	129	11.385	11.385	0.000	90	275560	25.0	24.1	
84 Ethylene Dibromide	107	11.527	11.527	0.000	98	261436	25.0	23.0	
85 3-Chlorobenzotrifluoride	180	11.682	11.682	0.000	93	413012	25.0	24.8	
146 1-Chlorohexane	55	11.693	11.693	0.000	99	289265	25.0	25.6	
86 4-Chlorobenzotrifluoride	180	11.717	11.717	0.000	95	460881	25.0	25.1	
87 Chlorobenzene	112	11.859	11.859	0.000	92	841157	25.0	22.0	
88 Ethylbenzene	91	11.871	11.871	0.000	96	1390662	25.0	22.6	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	95	294503	25.0	22.7	
90 m-Xylene & p-Xylene	106	11.954	11.942	0.012	98	545129	25.0	22.2	
91 o-Xylene	106	12.298	12.298	0.000	97	538460	25.0	22.1	
92 Styrene	104	12.310	12.310	0.000	93	847239	25.0	22.6	
93 2-Chlorobenzotrifluoride	180	12.464	12.464	0.000	96	409261	25.0	23.4	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	1336870	25.0	23.3	
95 Bromoform	173	12.583	12.583	0.000	97	153127	25.0	22.5	
96 Cyclohexanone	55	12.772	12.773	0.000	56	93988	250.0	248.5	
97 1,1,2,2-Tetrachloroethane	83	12.844	12.844	0.000	95	325416	25.0	24.5	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	94	95532	25.0	27.4	
100 1,2,3-Trichloropropane	110	12.927	12.927	0.001	84	108875	25.0	24.7	
99 N-Propylbenzene	91	12.927	12.927	0.001	99	1590455	25.0	23.6	
101 Bromobenzene	156	12.974	12.974	0.000	90	360116	25.0	23.0	
102 1,3,5-Trimethylbenzene	105	13.033	13.033	0.000	94	1137027	25.0	23.9	
103 2-Chlorotoluene	126	13.093	13.093	0.000	86	347940	25.0	24.5	
104 3-Chlorotoluene	126	13.128	13.128	0.000	96	449019	25.0	31.7	
105 4-Chlorotoluene	126	13.176	13.176	0.000	98	362767	25.0	24.2	
106 tert-Butylbenzene	134	13.377	13.377	0.000	93	251176	25.0	22.1	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	95	1189469	25.0	24.1	
108 Pentachloroethane	167	13.496	13.496	0.000	91	140124	25.0	23.0	
109 sec-Butylbenzene	105	13.567	13.567	0.000	94	1411727	25.0	23.4	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	1218093	25.0	23.6	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	99	695155	25.0	22.6	
112 1,2,3-Trimethylbenzene	105	13.852	13.852	0.000	97	1235386	25.0	25.6	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	94	714462	25.0	22.8	
114 Dicyclopentadiene	66	13.911	13.911	0.000	98	317530	25.0	25.3	
150 Benzyl chloride	126	13.994	13.994	0.000	99	139152	25.0	28.2	
115 n-Butylbenzene	91	14.089	14.089	0.000	98	1080472	25.0	23.7	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	97	668516	25.0	22.7	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	89	55962	25.0	26.4	
118 1,3,5-Trichlorobenzene	180	15.370	15.370	0.000	97	493087	25.0	23.6	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	94	465825	25.0	22.3	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	97	161633	25.0	22.2	
121 Naphthalene	128	16.650	16.650	0.000	97	1142210	25.0	23.2	
122 1,2,3-Trichlorobenzene	180	17.030	17.030	0.000	96	431057	25.0	22.8	
149 2-Methylnaphthalene	142	18.619	18.619	0.000	93	723482	25.0	26.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00101	Amount Added: 12.50	Units: uL	
GAS CORP mix_00226	Amount Added: 12.50	Units: uL	
ADD CORP mix_00060	Amount Added: 12.50	Units: uL	
3_MCP_Add_WRK_00134	Amount Added: 12.50	Units: uL	
C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170627-63636.b\\C5070.D

Injection Date: 27-Jun-2017 22:31:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

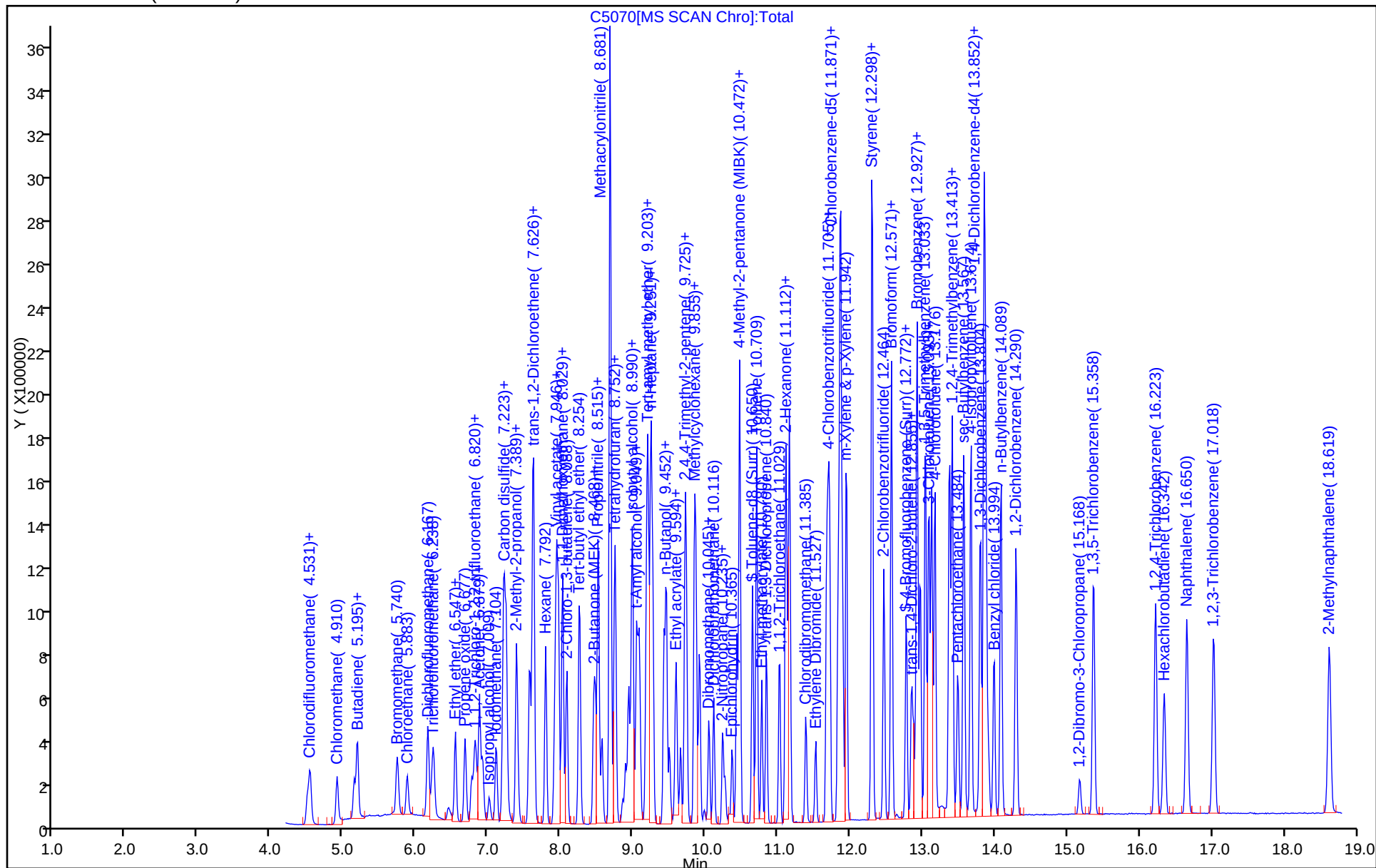
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5070.D

Injection Date: 27-Jun-2017 22:31:30

Instrument ID: HP5973C

Lims ID: LCS

Client ID:

Operator ID: RR

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

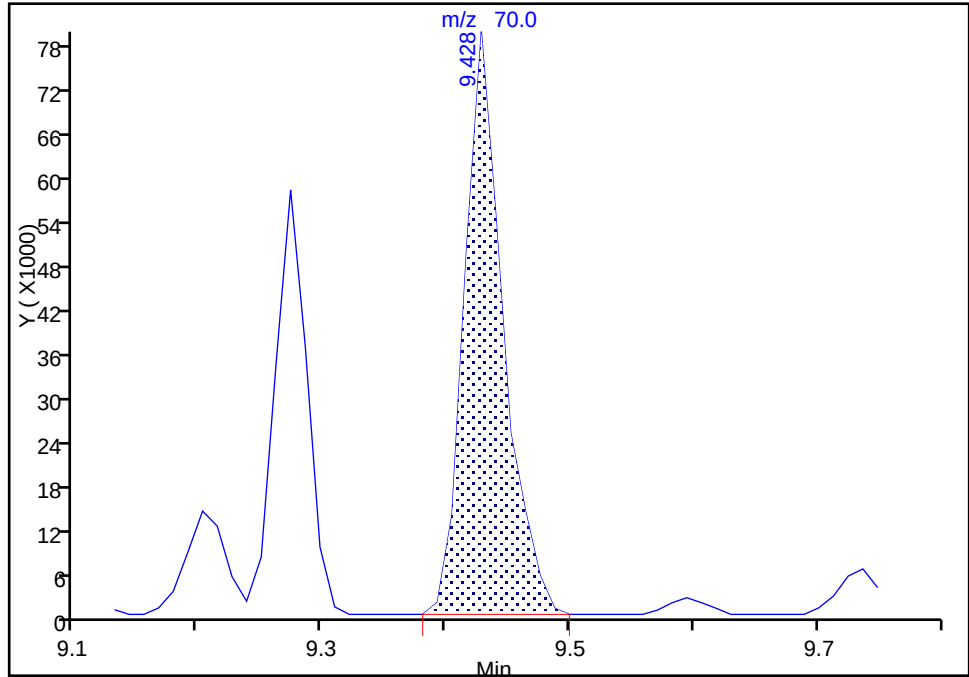
MS SCAN

* 153 Fluorobenzene (IS), CAS: 462-06-6

Signal: 1

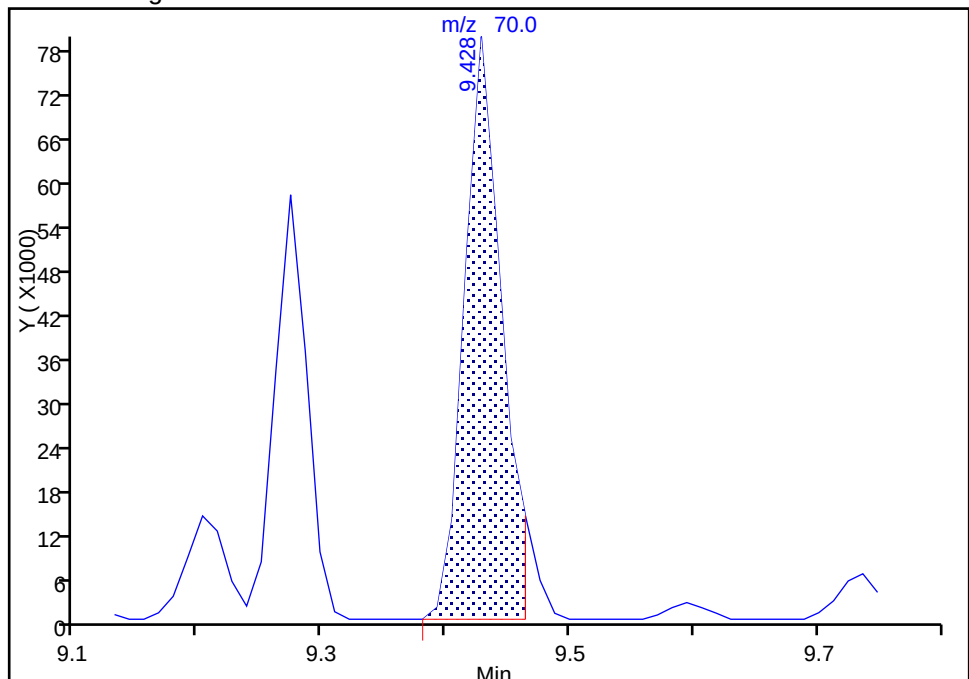
RT: 9.43
Area: 172880
Amount: 25.000000
Amount Units: ug/L

Processing Integration Results



RT: 9.43
Area: 168520
Amount: 25.000000
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 27-Jun-2017 22:52:29

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-364568/5
 Matrix: Water Lab File ID: C5135.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 20:53
 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.: 364568 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.93		1.00	0.820
75-34-3	1,1-Dichloroethane	23.47		1.00	0.380
75-35-4	1,1-Dichloroethene	21.60		1.00	0.290
107-06-2	1,2-Dichloroethane	24.06		1.00	0.210
540-59-0	1,2-Dichloroethene, Total	44.94		2.00	0.810
67-64-1	Acetone	128.3		10.0	3.00
71-43-2	Benzene	22.88		1.00	0.410
75-00-3	Chloroethane	24.24		1.00	0.320
156-59-2	cis-1,2-Dichloroethene	22.62		1.00	0.810
100-41-4	Ethylbenzene	22.61		1.00	0.740
127-18-4	Tetrachloroethene	21.85		1.00	0.360
79-01-6	Trichloroethene	21.96		1.00	0.460
75-01-4	Vinyl chloride	28.09		1.00	0.900
1330-20-7	Xylenes, Total	44.33		2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
460-00-4	4-Bromofluorobenzene (Surr)	87		73-120
2037-26-5	Toluene-d8 (Surr)	107		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C5135.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 28-Jun-2017 20:53:30 ALS Bottle#: 15 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0063674-005
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170628-63674.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 19:16:24 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: reiler

Date: 28-Jun-2017 21:16:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	142594	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	85	300289	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.852	-0.001	95	290141	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	92	185262	25.0	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	116836	25.0	28.0	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	726090	25.0	26.8	
\$ 6 4-Bromofluorobenzene (Surr	174	12.772	12.784	-0.012	88	211676	25.0	21.8	
10 Dichlorodifluoromethane	85	4.507	4.495	0.012	99	280653	25.0	20.6	
12 Chloromethane	50	4.910	4.910	0.000	99	292039	25.0	30.9	
13 Vinyl chloride	62	5.147	5.147	0.000	98	239110	25.0	28.1	
151 Butadiene	54	5.183	5.183	0.000	90	220296	25.0	28.1	
14 Bromomethane	94	5.740	5.740	0.000	90	246427	25.0	24.3	
15 Chloroethane	64	5.883	5.870	0.013	100	206831	25.0	24.2	
16 Dichlorofluoromethane	67	6.167	6.167	0.000	97	493789	25.0	24.2	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	99	443194	25.0	22.7	
18 Ethyl ether	59	6.547	6.535	0.012	92	253719	25.0	24.6	
20 Acrolein	56	6.772	6.760	0.012	100	195729	125.0	116.0	
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	94	275541	25.0	22.6	
22 1,1-Dichloroethene	96	6.879	6.878	0.001	98	263406	25.0	21.6	
23 Acetone	43	6.914	6.914	0.000	100	408025	125.0	128.3	
25 Iodomethane	142	7.104	7.104	0.000	99	463889	25.0	21.5	
26 Carbon disulfide	76	7.199	7.199	0.000	100	982737	25.0	23.0	
27 Methyl acetate	43	7.211	7.210	0.001	98	1060334	125.0	128.1	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	91	472594	25.0	23.3	
30 Methylene Chloride	84	7.389	7.388	0.001	94	309673	25.0	23.8	
31 2-Methyl-2-propanol	59	7.400	7.400	0.000	97	296380	250.0	239.1	
32 Methyl tert-butyl ether	73	7.566	7.566	0.000	96	813407	25.0	24.7	
33 Acrylonitrile	53	7.614	7.614	0.000	99	1040218	250.0	256.6	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	99	297823	25.0	22.3	
35 Hexane	57	7.792	7.792	0.000	93	405298	25.0	23.4	
37 Vinyl acetate	43	7.970	7.969	0.001	97	1152217	50.0	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	8.029	8.017	0.012	96	509960	25.0	23.5	
43 2-Butanone (MEK)	43	8.480	8.479	0.001	100	641135	125.0	124.5	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	84	332976	25.0	22.6	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	65	408061	25.0	23.8	
48 Chlorobromomethane	128	8.740	8.740	0.000	96	160166	25.0	22.3	
50 Chloroform	83	8.752	8.752	0.000	93	506004	25.0	22.7	
49 Tetrahydrofuran	42	8.764	8.764	0.000	88	171767	50.0	45.4	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	425529	25.0	22.9	
52 Cyclohexane	56	8.989	8.977	0.012	93	514910	25.0	22.9	
53 Isobutyl alcohol	43	9.001	8.989	0.012	95	370720	625.0	572.2	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	97	378549	25.0	23.2	
55 Carbon tetrachloride	117	9.072	9.072	0.000	96	372894	25.0	22.0	
57 Benzene	78	9.238	9.238	0.000	96	1136119	25.0	22.9	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	98	410086	25.0	24.1	
59 n-Heptane	43	9.274	9.274	0.000	93	389961	25.0	23.3	
62 Trichloroethene	95	9.713	9.713	0.000	97	287997	25.0	22.0	
64 Methylcyclohexane	83	9.867	9.867	0.000	91	453156	25.0	22.3	
65 1,2-Dichloropropane	63	9.914	9.914	0.000	96	294560	25.0	22.7	
66 1,4-Dioxane	88	9.986	9.985	0.001	94	54629	500.0	470.4	
67 Dibromomethane	93	10.045	10.045	0.000	97	178228	25.0	22.9	
68 Dichlorobromomethane	83	10.116	10.116	0.000	99	345179	25.0	23.3	
69 2-Chloroethyl vinyl ether	63	10.235	10.234	0.001	93	169017	25.0	23.8	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	99	452473	25.0	23.6	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	97	1379776	125.0	133.4	
74 Toluene	92	10.709	10.709	0.000	98	706209	25.0	23.2	
75 Ethyl methacrylate	69	10.780	10.780	0.000	90	305485	25.0	26.2	
77 trans-1,3-Dichloropropene	75	10.839	10.839	0.000	94	422019	25.0	26.0	
79 1,1,2-Trichloroethane	83	11.017	11.017	0.000	92	213409	25.0	24.8	
80 2-Hexanone	43	11.112	11.112	0.000	97	993110	125.0	136.4	
81 Tetrachloroethene	166	11.160	11.159	0.001	96	310141	25.0	21.9	
82 1,3-Dichloropropane	76	11.171	11.171	0.000	93	453076	25.0	24.6	
83 Chlorodibromomethane	129	11.385	11.385	0.000	90	257673	25.0	23.5	
84 Ethylene Dibromide	107	11.527	11.527	0.000	98	253301	25.0	23.3	
87 Chlorobenzene	112	11.859	11.859	0.000	97	813354	25.0	22.2	
88 Ethylbenzene	91	11.871	11.871	0.000	98	1334146	25.0	22.6	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	94	283608	25.0	22.8	
90 m-Xylene & p-Xylene	106	11.942	11.942	0.000	96	522361	25.0	22.2	
91 o-Xylene	106	12.298	12.298	0.000	94	517744	25.0	22.2	
92 Styrene	104	12.310	12.310	0.000	93	812051	25.0	22.6	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	1295543	25.0	24.2	
95 Bromoform	173	12.583	12.582	0.001	98	145526	25.0	22.2	
97 1,1,2,2-Tetrachloroethane	83	12.843	12.843	0.000	96	312695	25.0	25.2	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	93	91747	25.0	28.2	
99 N-Propylbenzene	91	12.926	12.926	0.000	99	1545861	25.0	24.7	
100 1,2,3-Trichloropropane	110	12.926	12.938	-0.012	84	103889	25.0	25.3	
101 Bromobenzene	156	12.974	12.974	0.000	90	345800	25.0	23.7	
102 1,3,5-Trimethylbenzene	105	13.045	13.045	0.000	94	1092200	25.0	24.7	
103 2-Chlorotoluene	126	13.093	13.092	0.000	97	323363	25.0	24.4	
105 4-Chlorotoluene	126	13.176	13.175	0.001	98	337996	25.0	24.2	
106 tert-Butylbenzene	134	13.377	13.377	0.000	93	240011	25.0	22.6	
107 1,2,4-Trimethylbenzene	105	13.413	13.412	0.001	94	1141591	25.0	24.8	
109 sec-Butylbenzene	105	13.567	13.567	0.000	95	1364837	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
110 4-Isopropyltoluene	119	13.674	13.673	0.001	97	1177838	25.0	24.5	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	98	672733	25.0	23.5	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	94	684689	25.0	23.5	
115 n-Butylbenzene	91	14.089	14.088	0.001	98	1060618	25.0	25.0	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	97	645750	25.0	23.5	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	79	54066	25.0	27.3	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	94	449883	25.0	23.1	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	97	162030	25.0	23.8	
121 Naphthalene	128	16.650	16.650	0.000	97	1094704	25.0	23.8	
122 1,2,3-Trichlorobenzene	180	17.030	17.029	0.001	95	413404	25.0	23.4	

Reagents:

8260 CORP mix_00101	Amount Added: 12.50	Units: uL	
GAS CORP mix_00226	Amount Added: 12.50	Units: uL	
C_8260_IS_00090	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00101	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170628-63674.b\\C5135.D

Injection Date: 28-Jun-2017 20:53:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

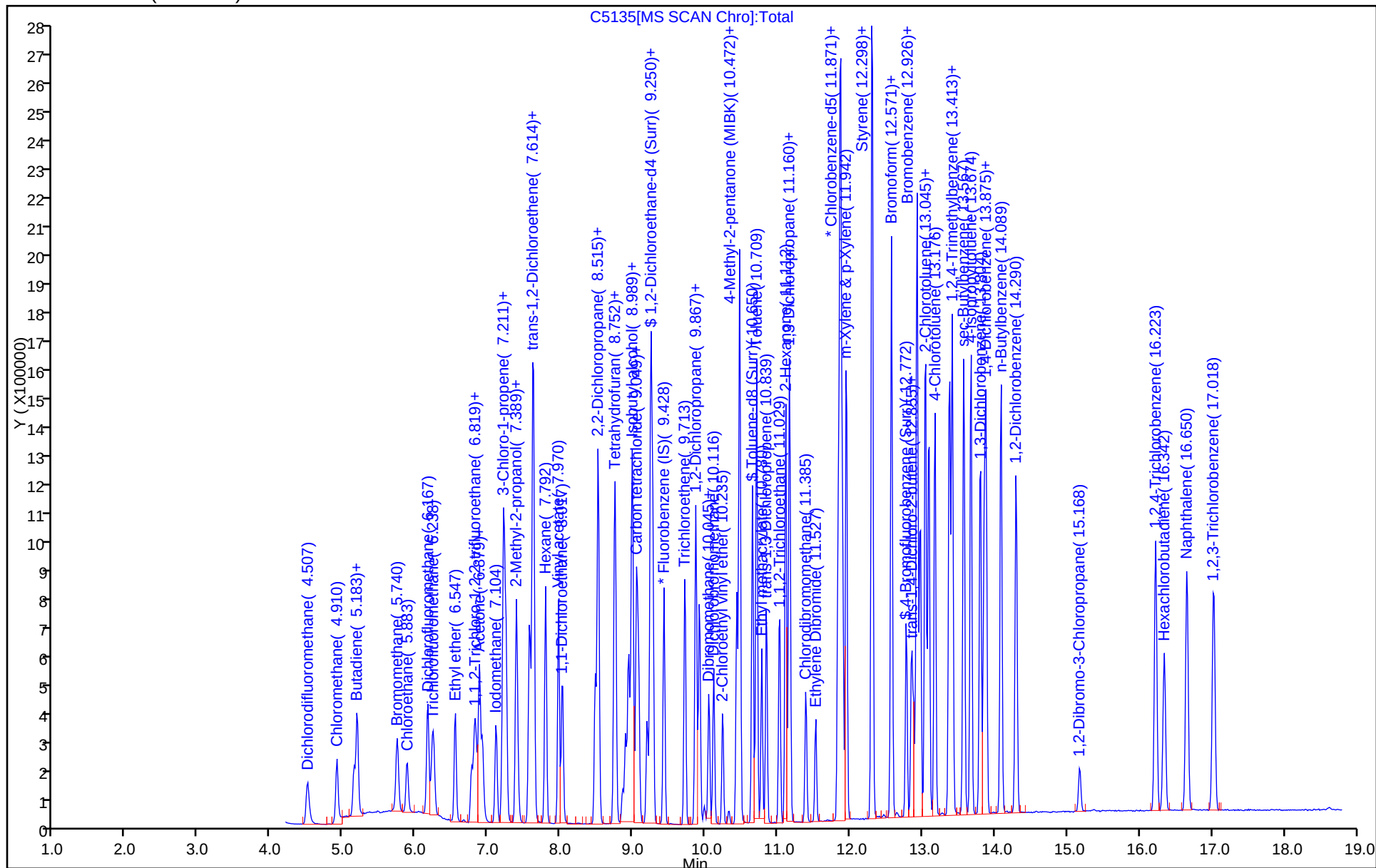
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-364910/4
 Matrix: Water Lab File ID: N9251.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/30/2017 11:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 364910 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.00		1.00	0.820
75-34-3	1,1-Dichloroethane	24.45		1.00	0.380
75-35-4	1,1-Dichloroethene	25.90		1.00	0.290
107-06-2	1,2-Dichloroethane	23.45		1.00	0.210
540-59-0	1,2-Dichloroethene, Total	50.95		2.00	0.810
67-64-1	Acetone	151.4		10.0	3.00
71-43-2	Benzene	24.88		1.00	0.410
75-00-3	Chloroethane	27.69		1.00	0.320
156-59-2	cis-1,2-Dichloroethene	25.94		1.00	0.810
100-41-4	Ethylbenzene	25.41		1.00	0.740
127-18-4	Tetrachloroethene	24.56		1.00	0.360
79-01-6	Trichloroethene	25.87		1.00	0.460
75-01-4	Vinyl chloride	24.27		1.00	0.900
1330-20-7	Xylenes, Total	51.66		2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N9251.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-Jun-2017 11:33:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0063728-004
 Operator ID: KN/CDC Instrument ID: HP5973N
 Method: \\ChromNA\Buffalo\ChromData\HP5973N\20170630-63728.b\N-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Jun-2017 11:59:59 Calib Date: 26-Jun-2017 23:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973N\20170626-63590.b\N9085.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: nowakk

Date: 30-Jun-2017 11:59:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.510	5.510	0.000	97	192456	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.503	8.503	0.000	89	734571	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.887	0.001	95	354072	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	4.913	4.913	0.000	90	228254	25.0	27.1	
\$ 5 1,2-Dichloroethane-d4 (Sur	65	5.224	5.224	0.000	0	350628	25.0	27.8	
\$ 6 Toluene-d8 (Surr)	98	7.024	7.024	0.000	95	933699	25.0	26.4	
\$ 7 4-Bromofluorobenzene (Surr	174	9.750	9.750	0.000	93	290246	25.0	24.6	
11 Dichlorodifluoromethane	85	1.367	1.361	0.006	98	247284	25.0	25.8	
13 Chloromethane	50	1.531	1.525	0.006	99	506096	25.0	23.1	
14 Vinyl chloride	62	1.634	1.628	0.006	97	367230	25.0	24.3	
144 Butadiene	54	1.659	1.659	0.000	90	498984	25.0	27.2	
15 Bromomethane	94	1.945	1.945	0.000	92	133297	25.0	31.2	
16 Chloroethane	64	2.042	2.042	0.000	96	168095	25.0	27.7	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	96	409317	25.0	28.1	
18 Trichlorofluoromethane	101	2.273	2.267	0.006	96	363844	25.0	28.5	
19 Ethyl ether	59	2.553	2.553	0.000	94	380391	25.0	25.2	
20 Acrolein	56	2.711	2.705	0.006	99	397125	125.0	126.2	
22 1,1-Dichloroethene	96	2.766	2.766	0.000	87	209682	25.0	25.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	47	203501	25.0	26.0	
23 Acetone	43	2.857	2.857	0.000	98	942007	125.0	151.4	
24 Iodomethane	142	2.918	2.918	0.000	99	349548	25.0	26.0	
25 Carbon disulfide	76	2.967	2.967	0.000	99	704698	25.0	25.3	
27 3-Chloro-1-propene	41	3.131	3.125	0.006	87	718261	25.0	22.9	
28 Methyl acetate	43	3.167	3.161	0.006	99	2047928	125.0	124.0	
30 Methylene Chloride	84	3.265	3.259	0.006	88	240960	25.0	23.2	
31 2-Methyl-2-propanol	59	3.411	3.411	0.000	98	412272	250.0	326.7	
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	93	761022	25.0	25.1	
33 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	89	233495	25.0	25.0	
34 Acrylonitrile	53	3.520	3.520	0.000	99	2137122	250.0	253.4	
35 Hexane	57	3.721	3.721	0.000	95	622791	25.0	26.1	
36 1,1-Dichloroethane	63	3.910	3.904	0.006	96	557601	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
39 Vinyl acetate	43	3.958	3.958	0.000	96	1985595	50.0	53.3	
42 2,2-Dichloropropane	77	4.433	4.427	0.006	85	240664	25.0	23.7	
43 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	89	268306	25.0	25.9	
44 2-Butanone (MEK)	43	4.475	4.475	0.000	96	1359393	125.0	140.3	
47 Chlorobromomethane	128	4.688	4.688	0.000	82	126779	25.0	25.1	
49 Tetrahydrofuran	42	4.713	4.713	0.000	93	328970	50.0	47.8	
50 Chloroform	83	4.761	4.761	0.000	94	400247	25.0	23.6	
51 1,1,1-Trichloroethane	97	4.895	4.895	0.000	93	326648	25.0	25.0	
52 Cyclohexane	56	4.920	4.919	0.001	91	683737	25.0	26.0	
53 Carbon tetrachloride	117	5.041	5.041	0.000	94	305350	25.0	26.1	
54 1,1-Dichloropropene	75	5.047	5.047	0.000	86	315710	25.0	24.9	
56 Isobutyl alcohol	43	5.224	5.224	0.000	98	556087	625.0	682.5	
55 Benzene	78	5.242	5.242	0.000	95	959369	25.0	24.9	
57 1,2-Dichloroethane	62	5.291	5.291	0.000	94	449638	25.0	23.5	
59 n-Heptane	43	5.455	5.455	0.000	96	718354	25.0	26.0	
60 Trichloroethene	95	5.856	5.856	0.000	92	246915	25.0	25.9	
62 Methylcyclohexane	83	5.996	5.996	0.000	91	412851	25.0	27.0	
63 1,2-Dichloropropane	63	6.082	6.081	0.001	89	319929	25.0	25.0	
64 Dibromomethane	93	6.209	6.209	0.000	95	156765	25.0	25.2	
66 1,4-Dioxane	88	6.221	6.221	0.000	46	57666	500.0	588.4	M
67 Dichlorobromomethane	83	6.367	6.361	0.006	95	294949	25.0	25.2	
69 2-Chloroethyl vinyl ether	63	6.647	6.641	0.006	86	224151	25.0	26.5	
71 cis-1,3-Dichloropropene	75	6.787	6.787	0.000	84	388780	25.0	27.0	
72 4-Methyl-2-pentanone (MIBK)	58	6.927	6.927	0.000	98	931097	125.0	125.2	
73 Toluene	92	7.085	7.085	0.000	96	628690	25.0	24.4	
75 trans-1,3-Dichloropropene	75	7.347	7.347	0.000	91	352664	25.0	25.2	
77 Ethyl methacrylate	69	7.408	7.408	0.000	89	338495	25.0	27.4	
78 1,1,2-Trichloroethane	83	7.535	7.529	0.006	94	180723	25.0	25.2	
79 Tetrachloroethene	166	7.633	7.633	0.000	96	267762	25.0	24.6	
80 1,3-Dichloropropane	76	7.700	7.694	0.006	89	372965	25.0	24.2	
82 2-Hexanone	43	7.767	7.767	0.000	99	1881027	125.0	131.8	
83 Chlorodibromomethane	129	7.937	7.931	0.006	89	228373	25.0	25.0	
84 Ethylene Dibromide	107	8.040	8.040	0.000	98	228390	25.0	25.4	
85 Chlorobenzene	112	8.533	8.533	0.000	91	688382	25.0	24.5	
89 1,1,1,2-Tetrachloroethane	131	8.624	8.624	0.000	93	241885	25.0	25.6	
88 Ethylbenzene	91	8.631	8.630	0.001	98	1192319	25.0	25.4	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	476052	25.0	26.4	
91 o-Xylene	106	9.178	9.178	0.000	97	454475	25.0	25.3	
92 Styrene	104	9.202	9.202	0.000	93	779663	25.0	25.9	
93 Bromoform	173	9.434	9.433	0.001	96	146326	25.0	24.5	
95 Isopropylbenzene	105	9.567	9.567	0.000	96	1198933	25.0	25.7	
97 Bromobenzene	156	9.902	9.896	0.006	91	281641	25.0	24.0	
98 1,1,2,2-Tetrachloroethane	83	9.932	9.932	0.000	96	296428	25.0	24.2	
99 1,2,3-Trichloropropane	110	9.969	9.969	0.000	93	96008	25.0	25.4	
101 trans-1,4-Dichloro-2-buten	53	9.981	9.981	0.000	70	107109	25.0	20.0	
100 N-Propylbenzene	91	9.987	9.993	-0.006	99	1378729	25.0	25.8	
102 2-Chlorotoluene	126	10.085	10.084	0.000	94	261694	25.0	24.3	
104 1,3,5-Trimethylbenzene	105	10.170	10.170	0.000	95	969563	25.0	25.2	
105 4-Chlorotoluene	91	10.194	10.200	-0.006	98	927505	25.0	25.3	
106 tert-Butylbenzene	134	10.486	10.486	0.000	96	212395	25.0	25.2	
108 1,2,4-Trimethylbenzene	105	10.535	10.535	0.000	98	994647	25.0	25.2	
109 sec-Butylbenzene	105	10.699	10.693	0.006	95	1266770	25.0	26.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.821	10.821	0.000	97	556650	25.0	25.2	
111 4-Isopropyltoluene	119	10.833	10.833	0.000	98	1112085	25.0	27.4	
113 1,4-Dichlorobenzene	146	10.906	10.906	0.000	94	588124	25.0	25.4	
115 n-Butylbenzene	91	11.222	11.222	0.000	98	953898	25.0	27.0	
116 1,2-Dichlorobenzene	146	11.259	11.259	0.000	96	522877	25.0	24.7	
117 1,2-Dibromo-3-Chloropropan	75	11.977	11.976	0.000	74	46247	25.0	22.3	
119 1,2,4-Trichlorobenzene	180	12.670	12.670	0.000	95	319917	25.0	25.8	
120 Hexachlorobutadiene	225	12.792	12.792	0.000	96	155161	25.0	26.3	
121 Naphthalene	128	12.877	12.877	0.000	97	769866	25.0	25.2	
122 1,2,3-Trichlorobenzene	180	13.084	13.084	0.000	94	257573	25.0	24.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00226

Amount Added: 12.50

Units: uL

8260 CORP mix_00101

Amount Added: 12.50

Units: uL

N_8260_Surr_00273

Amount Added: 1.00

Units: uL

Run Reagent

N 8260 IS_00075

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973N\\20170630-63728.b\\N9251.D

Injection Date: 30-Jun-2017 11:33:30

Instrument ID: HP5973N

Operator ID: KN/CDC

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

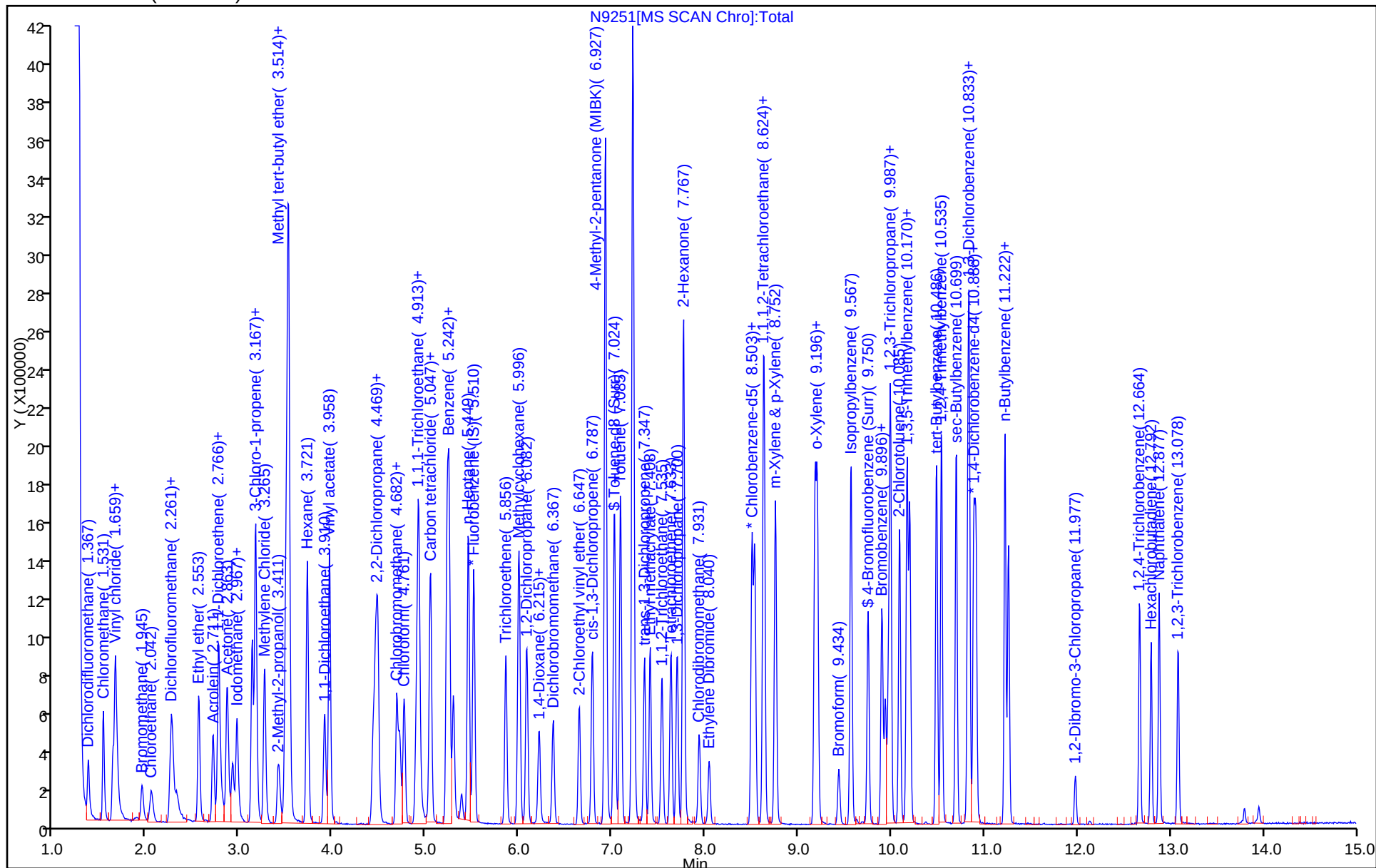
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: N-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 480-364320/10
 Matrix: Water Lab File ID: C5071.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/27/2017 22:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 364320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.41		1.00	0.820
75-34-3	1,1-Dichloroethane	20.86		1.00	0.380
75-35-4	1,1-Dichloroethene	19.11		1.00	0.290
107-06-2	1,2-Dichloroethane	20.53		1.00	0.210
540-59-0	1,2-Dichloroethene, Total	39.85		2.00	0.810
67-64-1	Acetone	105.8		10.0	3.00
71-43-2	Benzene	20.27		1.00	0.410
75-00-3	Chloroethane	22.22		1.00	0.320
156-59-2	cis-1,2-Dichloroethene	19.92		1.00	0.810
100-41-4	Ethylbenzene	23.67		1.00	0.740
127-18-4	Tetrachloroethene	27.70		1.00	0.360
79-01-6	Trichloroethene	20.71		1.00	0.460
75-01-4	Vinyl chloride	24.64		1.00	0.900
1330-20-7	Xylenes, Total	46.13		2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
2037-26-5	Toluene-d8 (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	75		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5071.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 27-Jun-2017 22:57:30 ALS Bottle#: 5 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: rl check
 Misc. Info.: 480-0063636-007
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2017 23:45:52 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: reiler

Date: 27-Jun-2017 23:46:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	172289	25.0	25.0	M
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	84	309109	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.852	0.000	64	306674	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	93	161710	25.0	18.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	98	107935	25.0	21.4	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	653656	25.0	23.4	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	95	223186	25.0	22.4	
10 Dichlorodifluoromethane	85	4.507	4.495	0.012	100	307559	25.0	18.7	
11 Chlorodifluoromethane	51	4.543	4.543	0.000	97	365751	25.0	25.1	
12 Chloromethane	50	4.910	4.898	0.012	99	297899	25.0	26.1	
13 Vinyl chloride	62	5.147	5.135	0.012	99	253460	25.0	24.6	
151 Butadiene	54	5.195	5.183	0.012	90	233303	25.0	24.6	
14 Bromomethane	94	5.740	5.740	0.000	90	264267	25.0	21.6	
15 Chloroethane	64	5.883	5.871	0.012	100	229092	25.0	22.2	
16 Dichlorofluoromethane	67	6.167	6.155	0.012	97	538790	25.0	21.8	
17 Trichlorofluoromethane	101	6.238	6.238	0.000	99	492600	25.0	20.8	
148 Ethanol	45	6.452	6.440	0.012	72	124367	1000.0	816.4	M
18 Ethyl ether	59	6.547	6.535	0.012	92	263657	25.0	21.1	
19 Propene oxide	58	6.677	6.677	0.000	95	343133	NC	NC	
20 Acrolein	56	6.772	6.760	0.012	100	197866	125.0	97.0	
21 1,1,2-Trichloro-1,2,2-trif	101	6.819	6.819	0.000	94	296317	25.0	20.1	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	281604	25.0	19.1	
23 Acetone	43	6.926	6.914	0.012	100	406318	125.0	105.8	
24 Isopropyl alcohol	45	7.009	7.009	0.000	99	195060	250.0	249.6	
25 Iodomethane	142	7.104	7.104	0.000	99	510493	25.0	19.6	
26 Carbon disulfide	76	7.199	7.199	0.000	100	1053398	25.0	20.4	
27 Methyl acetate	43	7.223	7.211	0.012	98	1078095	125.0	107.8	
28 3-Chloro-1-propene	41	7.246	7.246	0.000	90	893665	25.0	36.5	
29 Acetonitrile	40	7.246	7.246	0.000	81	256425	250.0	287.6	
30 Methylene Chloride	84	7.389	7.389	0.000	94	326364	25.0	20.7	
31 2-Methyl-2-propanol	59	7.400	7.400	0.000	98	323675	250.0	216.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73	7.566	7.566	0.000	96	854933	25.0	21.5	
33 Acrylonitrile	53	7.614	7.614	0.000	99	1060935	250.0	216.6	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	99	321355	25.0	19.9	
35 Hexane	57	7.792	7.792	0.000	94	423101	25.0	20.2	
135 Halothane	117	7.922	7.922	0.000	94	209668	25.0	21.7	
36 Isopropyl ether	45	7.946	7.946	0.000	90	1056152	25.0	25.6	
37 Vinyl acetate	43	7.970	7.970	0.000	97	1682893	50.0	62.0	M
39 1,1-Dichloroethane	63	8.029	8.017	0.012	88	547670	25.0	20.9	
38 1,1-Dimethoxyethane	75	8.029	8.029	0.000	95	270019	125.0	132.4	
40 2-Chloro-1,3-butadiene	53	8.088	8.088	0.000	91	480660	25.0	27.5	
41 Tert-butyl ethyl ether	59	8.254	8.254	0.000	98	987033	25.0	25.4	
42 Ethyl acetate	43	8.468	8.456	0.012	99	1225978	50.0	109.2	
43 2-Butanone (MEK)	43	8.468	8.480	-0.012	99	1225978	125.0	197.0	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	82	354335	25.0	19.9	
44 2,2-Dichloropropane	77	8.515	8.515	0.000	65	439350	25.0	21.2	
46 Propionitrile	54	8.574	8.575	-0.001	99	420820	250.0	238.8	
47 Methacrylonitrile	41	8.681	8.681	0.000	94	1826659	250.0	245.1	M
48 Chlorobromomethane	128	8.740	8.740	0.000	96	169671	25.0	19.6	
50 Chloroform	83	8.752	8.752	0.000	96	542799	25.0	20.1	
49 Tetrahydrofuran	42	8.764	8.752	0.012	92	179441	50.0	39.3	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	457614	25.0	20.4	
52 Cyclohexane	56	8.990	8.978	0.012	92	559739	25.0	20.6	
53 Isobutyl alcohol	43	9.001	8.989	0.012	91	402213	625.0	513.8	
54 1,1-Dichloropropene	75	9.049	9.049	0.000	97	410868	25.0	20.8	
55 Carbon tetrachloride	117	9.073	9.072	0.001	97	412271	25.0	20.2	
147 t-Amyl alcohol	59	9.096	9.096	0.000	94	268432	250.0	278.5	
152 Isooctane	57	9.191	9.191	0.000	96	974081	25.0	25.8	
56 Tert-amyl methyl ether	73	9.203	9.203	0.000	99	919368	25.0	24.7	
57 Benzene	78	9.239	9.239	0.001	96	1216060	25.0	20.3	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	98	422883	25.0	20.5	
59 n-Heptane	43	9.274	9.274	0.000	92	421666	25.0	20.9	
1 1,4-Difluorobenzene	114	9.464	9.464	0.000	95	944562	25.0	22.9	
60 n-Butanol	56	9.499	9.500	-0.001	91	211427	625.0	642.1	
141 2,4,4-Trimethyl-1-pentene	55	9.594	9.594	0.000	99	188004	NC	NC	
142 Ethyl acrylate	55	9.654	9.654	0.000	99	349641	25.0	25.2	
62 Trichloroethene	95	9.713	9.713	0.000	94	328142	25.0	20.7	
140 2,4,4-Trimethyl-2-pentene	97	9.737	9.737	0.000	84	746288	NC	NC	
63 Methyl methacrylate	41	9.843	9.843	0.000	92	730515	50.0	70.0	M
64 Methylcyclohexane	83	9.867	9.867	0.000	91	517033	25.0	21.0	
65 1,2-Dichloropropane	63	9.914	9.914	0.000	96	314638	25.0	20.0	
66 1,4-Dioxane	88	9.986	9.986	0.000	94	60736	500.0	508.1	
67 Dibromomethane	93	10.045	10.045	0.000	97	187295	25.0	19.9	
68 Dichlorobromomethane	83	10.116	10.116	0.000	99	369573	25.0	20.7	
69 2-Chloroethyl vinyl ether	63	10.235	10.235	0.000	92	182336	25.0	21.2	
70 2-Nitropropane	43	10.270	10.270	0.000	97	147232	50.0	55.0	
71 Epichlorohydrin	57	10.365	10.365	0.000	99	297774	250.0	249.9	
72 cis-1,3-Dichloropropene	75	10.436	10.436	0.000	98	500914	25.0	21.6	
73 4-Methyl-2-pentanone (MIBK)	43	10.472	10.472	0.000	96	1419346	125.0	133.3	
74 Toluene	92	10.709	10.709	0.000	98	771702	25.0	24.6	
75 Ethyl methacrylate	69	10.780	10.780	0.000	90	329064	25.0	27.4	
77 trans-1,3-Dichloropropene	75	10.839	10.839	0.000	94	447084	25.0	26.8	
79 1,1,2-Trichloroethane	83	11.017	11.017	0.000	93	220515	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
80 2-Hexanone	43	11.112	11.112	0.000	99	1479872	125.0	197.5	E
155 n-Butyl acetate	43	11.112	11.124	-0.012	85	1479872	25.0	101.2	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	404678	25.0	27.7	
82 1,3-Dichloropropane	76	11.171	11.171	0.000	93	472170	25.0	24.9	
83 Chlorodibromomethane	129	11.385	11.385	0.000	89	274128	25.0	24.3	
84 Ethylene Dibromide	107	11.527	11.527	0.000	98	260950	25.0	23.3	
85 3-Chlorobenzotrifluoride	180	11.681	11.682	-0.001	92	434447	25.0	26.5	
146 1-Chlorohexane	55	11.693	11.693	0.000	98	307316	25.0	27.5	
86 4-Chlorobenzotrifluoride	180	11.717	11.717	0.000	97	488017	25.0	27.0	
87 Chlorobenzene	112	11.859	11.859	0.000	92	860768	25.0	22.8	
88 Ethylbenzene	91	11.871	11.871	0.000	96	1437775	25.0	23.7	
89 1,1,1,2-Tetrachloroethane	131	11.895	11.895	0.000	94	303448	25.0	23.7	
90 m-Xylene & p-Xylene	106	11.942	11.942	0.000	96	557820	25.0	23.0	
91 o-Xylene	106	12.298	12.298	0.000	97	556391	25.0	23.1	
92 Styrene	104	12.310	12.310	0.000	93	867913	25.0	23.4	
93 2-Chlorobenzotrifluoride	180	12.464	12.464	0.000	96	429030	25.0	24.9	
94 Isopropylbenzene	105	12.571	12.571	0.000	96	1416117	25.0	25.1	
95 Bromoform	173	12.583	12.583	0.000	98	150188	25.0	22.3	
96 Cyclohexanone	55	12.772	12.773	0.000	56	94502	250.0	253.6	
97 1,1,2,2-Tetrachloroethane	83	12.844	12.844	0.000	95	316123	25.0	24.1	
98 trans-1,4-Dichloro-2-buten	53	12.879	12.879	0.000	94	96557	25.0	28.1	
99 N-Propylbenzene	91	12.927	12.927	0.001	99	1674673	25.0	25.3	
100 1,2,3-Trichloropropane	110	12.927	12.927	0.001	82	107388	25.0	24.8	
101 Bromobenzene	156	12.974	12.974	0.000	90	365241	25.0	23.6	
102 1,3,5-Trimethylbenzene	105	13.033	13.033	0.000	94	1183082	25.0	25.3	
103 2-Chlorotoluene	126	13.093	13.093	0.000	86	356444	25.0	25.4	
104 3-Chlorotoluene	126	13.128	13.128	0.000	96	458037	25.0	32.8	
105 4-Chlorotoluene	126	13.176	13.176	0.000	98	376085	25.0	25.5	
106 tert-Butylbenzene	134	13.377	13.377	0.000	93	265281	25.0	23.7	
107 1,2,4-Trimethylbenzene	105	13.413	13.413	0.000	95	1239140	25.0	25.4	
108 Pentachloroethane	167	13.496	13.496	0.000	91	135339	25.0	22.6	
109 sec-Butylbenzene	105	13.567	13.567	0.000	94	1496406	25.0	25.1	
110 4-Isopropyltoluene	119	13.674	13.674	0.000	97	1292455	25.0	25.4	
111 1,3-Dichlorobenzene	146	13.804	13.804	0.000	98	710933	25.0	23.5	
112 1,2,3-Trimethylbenzene	105	13.852	13.852	0.000	97	1277372	25.0	26.8	
113 1,4-Dichlorobenzene	146	13.875	13.875	0.000	95	722614	25.0	23.4	
114 Dicyclopentadiene	66	13.911	13.911	0.000	97	335765	25.0	27.1	
150 Benzyl chloride	126	13.994	13.994	0.000	99	134742	25.0	27.6	
115 n-Butylbenzene	91	14.089	14.089	0.000	98	1154187	25.0	25.7	
116 1,2-Dichlorobenzene	146	14.290	14.290	0.000	97	676490	25.0	23.3	
117 1,2-Dibromo-3-Chloropropan	75	15.168	15.168	0.000	81	56238	25.0	26.9	
118 1,3,5-Trichlorobenzene	180	15.369	15.370	-0.001	97	506804	25.0	24.6	
119 1,2,4-Trichlorobenzene	180	16.223	16.223	0.000	95	477325	25.0	23.2	
120 Hexachlorobutadiene	225	16.342	16.342	0.000	97	176461	25.0	24.5	
121 Naphthalene	128	16.650	16.650	0.000	97	1162084	25.0	23.9	
122 1,2,3-Trichlorobenzene	180	17.030	17.030	0.000	95	438503	25.0	23.5	
149 2-Methylnaphthalene	142	18.619	18.619	0.000	93	734687	25.0	27.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

3_MCP_Add_WRK_00134	Amount Added: 12.50	Units: uL	
ADD CORP mix_00060	Amount Added: 12.50	Units: uL	
8260 CORP mix_00101	Amount Added: 12.50	Units: uL	
GAS CORP mix_00226	Amount Added: 12.50	Units: uL	
C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973C\\20170627-63636.b\\C5071.D

Injection Date: 27-Jun-2017 22:57:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: LCSD

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

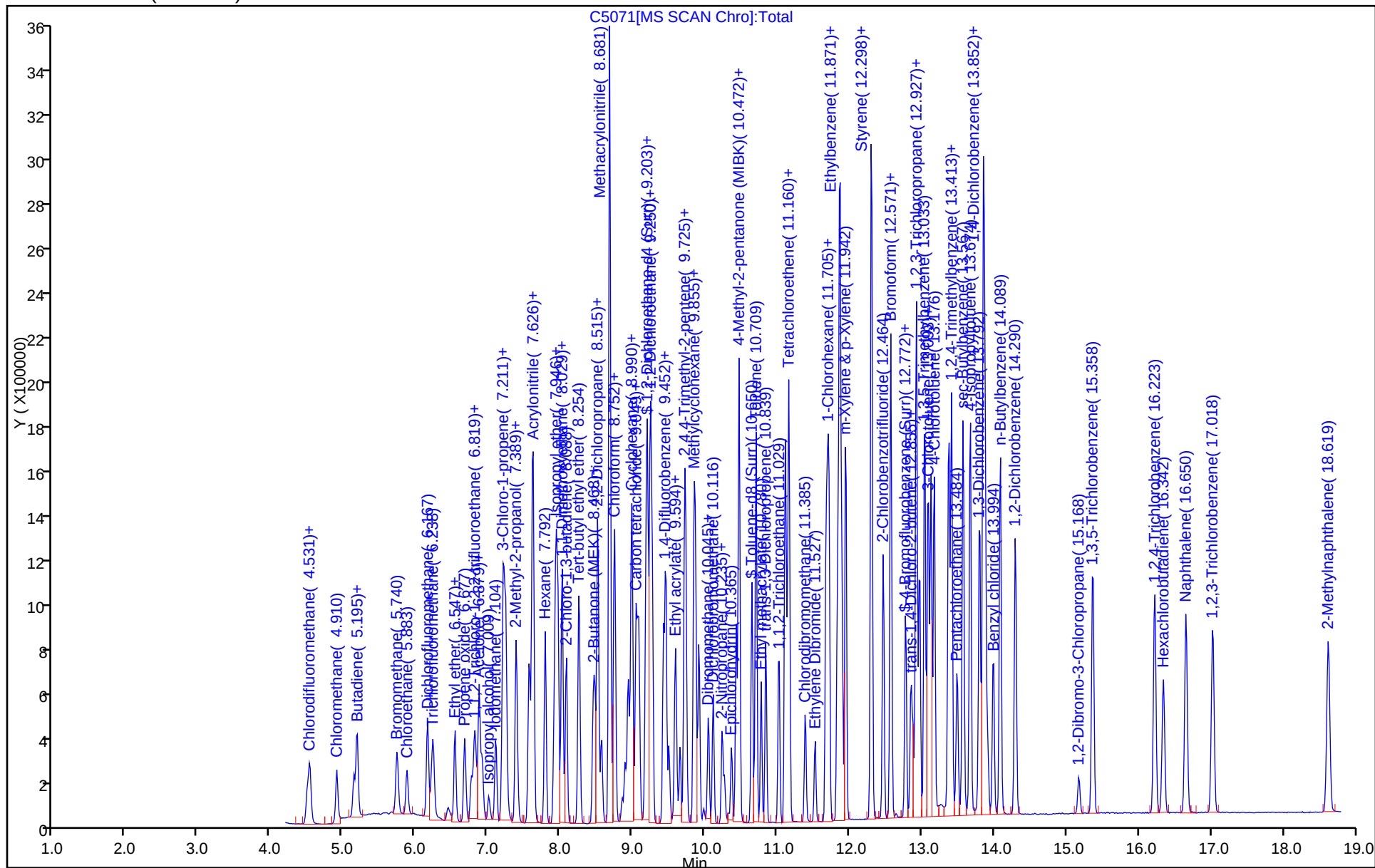
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5071.D

Injection Date: 27-Jun-2017 22:57:30

Instrument ID: HP5973C

Lims ID: LCSD

Client ID:

Operator ID: RR

ALS Bottle#:

5

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: C-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

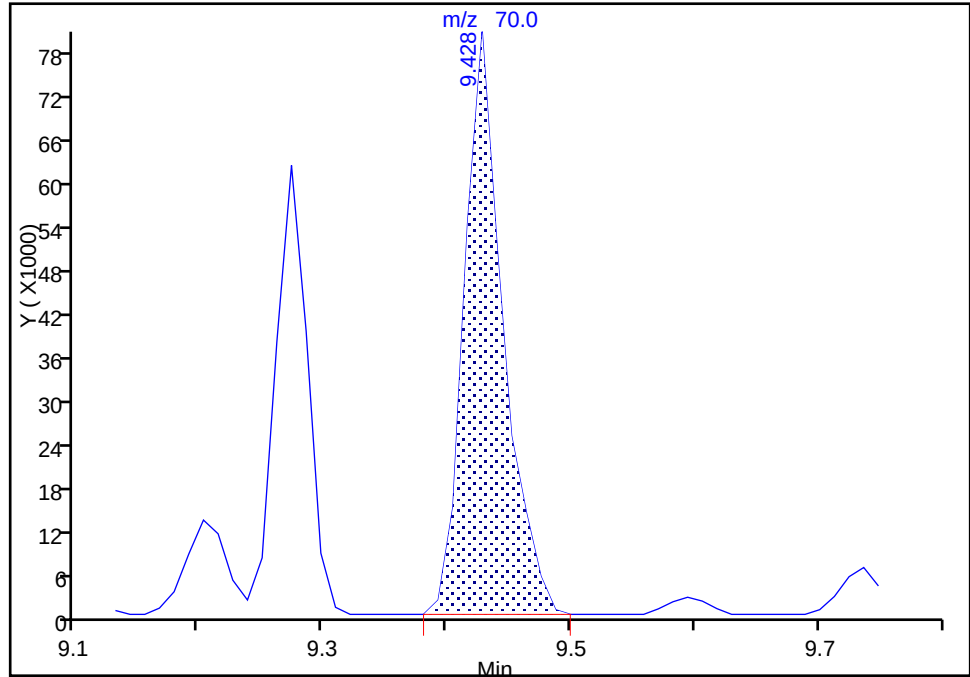
MS SCAN

*** 153 Fluorobenzene (IS), CAS: 462-06-6**

Signal: 1

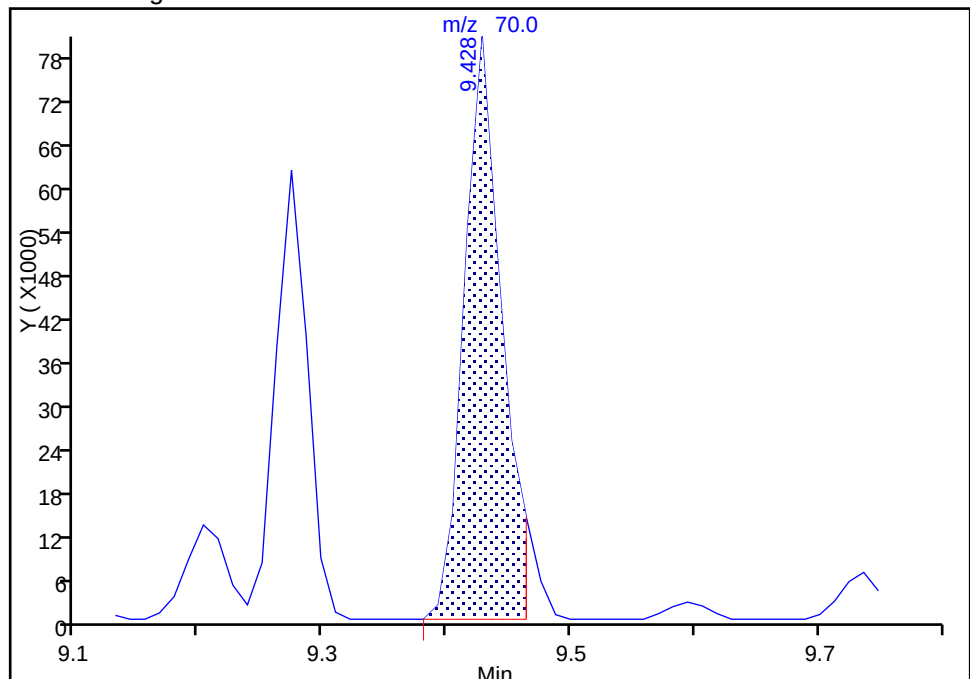
RT: 9.43
Area: 176485
Amount: 25.000000
Amount Units: ug/L

Processing Integration Results



RT: 9.43
Area: 172289
Amount: 25.000000
Amount Units: ug/L

Manual Integration Results



Reviewer: reiler, 27-Jun-2017 23:18:35

Audit Action: Split an Integrated Peak

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: X-A-1-062317-MS MS Lab Sample ID: 480-120094-3 MS
 Matrix: Water Lab File ID: C5092.D
 Analysis Method: 8260C Date Collected: 06/23/2017 13:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 08:02
 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.: 364320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.91		1.00	0.820
75-34-3	1,1-Dichloroethane	25.12		1.00	0.380
75-35-4	1,1-Dichloroethene	23.10		1.00	0.290
107-06-2	1,2-Dichloroethane	24.33		1.00	0.210
540-59-0	1,2-Dichloroethene, Total	50.34		2.00	0.810
67-64-1	Acetone	121.2		10.0	3.00
71-43-2	Benzene	24.72		1.00	0.410
75-00-3	Chloroethane	30.47		1.00	0.320
156-59-2	cis-1,2-Dichloroethene	26.36		1.00	0.810
100-41-4	Ethylbenzene	24.08		1.00	0.740
127-18-4	Tetrachloroethene	22.93		1.00	0.360
79-01-6	Trichloroethene	23.67		1.00	0.460
75-01-4	Vinyl chloride	41.67		1.00	0.900
1330-20-7	Xylenes, Total	47.36		2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
2037-26-5	Toluene-d8 (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5092.D
 Lims ID: 480-120094-A-3 MS
 Client ID: X-A-1-062317-MS
 Sample Type: MS
 Inject. Date: 28-Jun-2017 08:02:30 ALS Bottle#: 26 Worklist Smp#: 38
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-3 ms
 Misc. Info.: 480-0063636-038
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 14:25:48 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: schreiberj

Date: 28-Jun-2017 14:26:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	138656	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.835	11.836	-0.001	85	291351	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.851	13.852	-0.001	95	280672	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	92	149007	25.0	21.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	89345	25.0	22.0	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	597116	25.0	22.7	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	93	208274	25.0	22.2	
13 Vinyl chloride	62	5.147	5.135	0.012	98	344910	25.0	41.7	
15 Chloroethane	64	5.882	5.871	0.011	100	252776	25.0	30.5	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	99	273909	25.0	23.1	
23 Acetone	43	6.914	6.914	0.000	100	374900	125.0	121.2	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	99	311268	25.0	24.0	
39 1,1-Dichloroethane	63	8.029	8.017	0.012	97	530699	25.0	25.1	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	84	377344	25.0	26.4	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	449467	25.0	24.9	
57 Benzene	78	9.238	9.239	0.000	96	1193600	25.0	24.7	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	98	403286	25.0	24.3	
62 Trichloroethene	95	9.713	9.713	0.000	98	301861	25.0	23.7	
81 Tetrachloroethene	166	11.160	11.160	0.000	97	315781	25.0	22.9	
88 Ethylbenzene	91	11.871	11.871	0.000	98	1379032	25.0	24.1	
90 m-Xylene & p-Xylene	106	11.954	11.942	0.012	98	548383	25.0	24.0	
91 o-Xylene	106	12.298	12.298	0.000	96	529833	25.0	23.4	
S 124 Xylenes, Total	1				0			47.4	
S 125 1,2-Dichloroethene, Total	1				0			50.3	

Reagents:

8260 CORP mix_00101	Amount Added: 12.50	Units: uL	
GAS CORP mix_00226	Amount Added: 12.50	Units: uL	
C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5092.D

Injection Date: 28-Jun-2017 08:02:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-3 MS

Worklist Smp#: 38

Client ID: X-A-1-062317-MS

Purge Vol: 5.000 mL

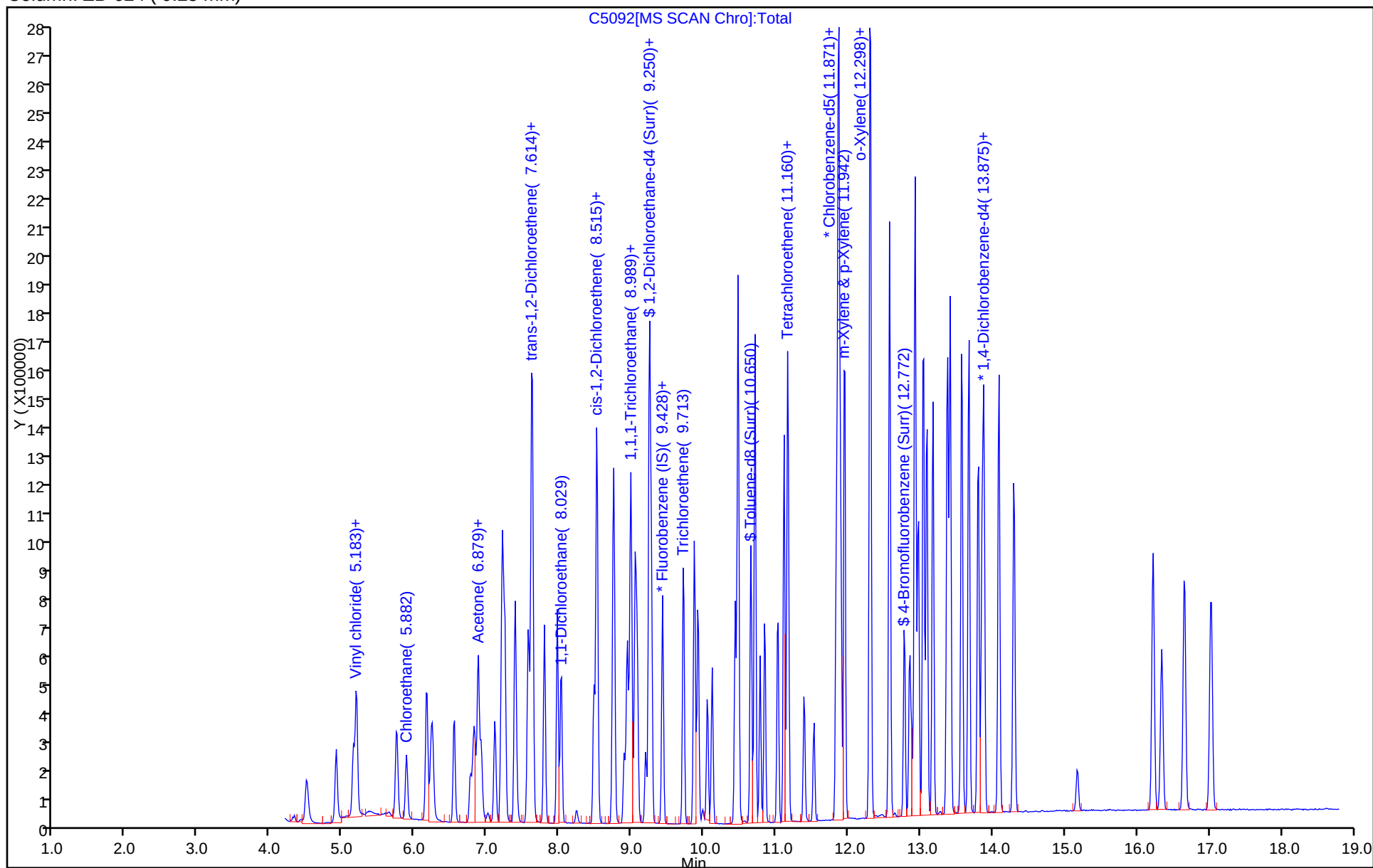
Dil. Factor: 1.0000

ALS Bottle#: 26

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-120094-1
 SDG No.: _____
 Client Sample ID: X-A-1-062317-MSD MSD Lab Sample ID: 480-120094-3 MSD
 Matrix: Water Lab File ID: C5093.D
 Analysis Method: 8260C Date Collected: 06/23/2017 13:00
 Sample wt/vol: 5 (mL) Date Analyzed: 06/28/2017 08:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 364320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.69		1.00	0.820
75-34-3	1,1-Dichloroethane	25.81		1.00	0.380
75-35-4	1,1-Dichloroethene	23.73		1.00	0.290
107-06-2	1,2-Dichloroethane	24.82		1.00	0.210
540-59-0	1,2-Dichloroethene, Total	51.82		2.00	0.810
67-64-1	Acetone	123.2		10.0	3.00
71-43-2	Benzene	25.15		1.00	0.410
75-00-3	Chloroethane	30.44		1.00	0.320
156-59-2	cis-1,2-Dichloroethene	26.88		1.00	0.810
100-41-4	Ethylbenzene	23.92		1.00	0.740
127-18-4	Tetrachloroethene	22.96		1.00	0.360
79-01-6	Trichloroethene	24.08		1.00	0.460
75-01-4	Vinyl chloride	41.15		1.00	0.900
1330-20-7	Xylenes, Total	46.79		2.00	0.660

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	88		73-120
2037-26-5	Toluene-d8 (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5093.D
 Lims ID: 480-120094-A-3 MSD
 Client ID: X-A-1-062317-MSD
 Sample Type: MSD
 Inject. Date: 28-Jun-2017 08:27:30 ALS Bottle#: 27 Worklist Smp#: 39
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-120094-a-3 msd
 Misc. Info.: 480-0063636-039
 Operator ID: RR Instrument ID: HP5973C
 Method: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2017 14:25:48 Calib Date: 19-Jun-2017 22:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973C\20170619-63379.b\C4707.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK034

First Level Reviewer: schreiberj

Date: 28-Jun-2017 14:26:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	9.428	9.428	0.000	99	138909	25.0	25.0	
* 2 Chlorobenzene-d5	82	11.836	11.836	0.000	85	299497	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	13.852	13.852	0.000	95	290505	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	8.895	8.895	0.000	92	148499	25.0	21.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.191	9.191	0.000	99	92050	25.0	22.6	
\$ 5 Toluene-d8 (Surr)	98	10.650	10.650	0.000	93	603819	25.0	22.3	
\$ 6 4-Bromofluorobenzene (Surr	174	12.784	12.784	0.000	94	211979	25.0	21.9	
13 Vinyl chloride	62	5.147	5.135	0.012	99	341264	25.0	41.2	
15 Chloroethane	64	5.883	5.871	0.012	100	253001	25.0	30.4	
22 1,1-Dichloroethene	96	6.879	6.879	0.000	98	281940	25.0	23.7	
23 Acetone	43	6.914	6.914	0.000	100	381555	125.0	123.2	
34 trans-1,2-Dichloroethene	96	7.626	7.626	0.000	99	324245	25.0	24.9	
39 1,1-Dichloroethane	63	8.029	8.017	0.012	96	546374	25.0	25.8	
45 cis-1,2-Dichloroethene	96	8.515	8.515	0.000	81	385449	25.0	26.9	
51 1,1,1-Trichloroethane	97	8.942	8.942	0.000	98	464388	25.0	25.7	
57 Benzene	78	9.250	9.239	0.012	96	1216656	25.0	25.2	
58 1,2-Dichloroethane	62	9.250	9.250	0.000	98	412118	25.0	24.8	
62 Trichloroethene	95	9.713	9.713	0.000	98	307719	25.0	24.1	
81 Tetrachloroethene	166	11.160	11.160	0.000	96	325053	25.0	23.0	
88 Ethylbenzene	91	11.871	11.871	0.000	96	1407993	25.0	23.9	
90 m-Xylene & p-Xylene	106	11.954	11.942	0.012	98	551669	25.0	23.5	
91 o-Xylene	106	12.298	12.298	0.000	95	543459	25.0	23.3	
S 124 Xylenes, Total	1				0			46.8	
S 125 1,2-Dichloroethene, Total	1				0			51.8	

Reagents:

GAS CORP mix_00226	Amount Added: 12.50	Units: uL	
8260 CORP mix_00101	Amount Added: 12.50	Units: uL	
C_8260_IS_00089	Amount Added: 1.00	Units: uL	Run Reagent
C_8260_Surr_00099	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973C\20170627-63636.b\C5093.D

Injection Date: 28-Jun-2017 08:27:30

Instrument ID: HP5973C

Operator ID: RR

Lims ID: 480-120094-A-3 MSD

Worklist Smp#: 39

Client ID: X-A-1-062317-MSD

Purge Vol: 5.000 mL

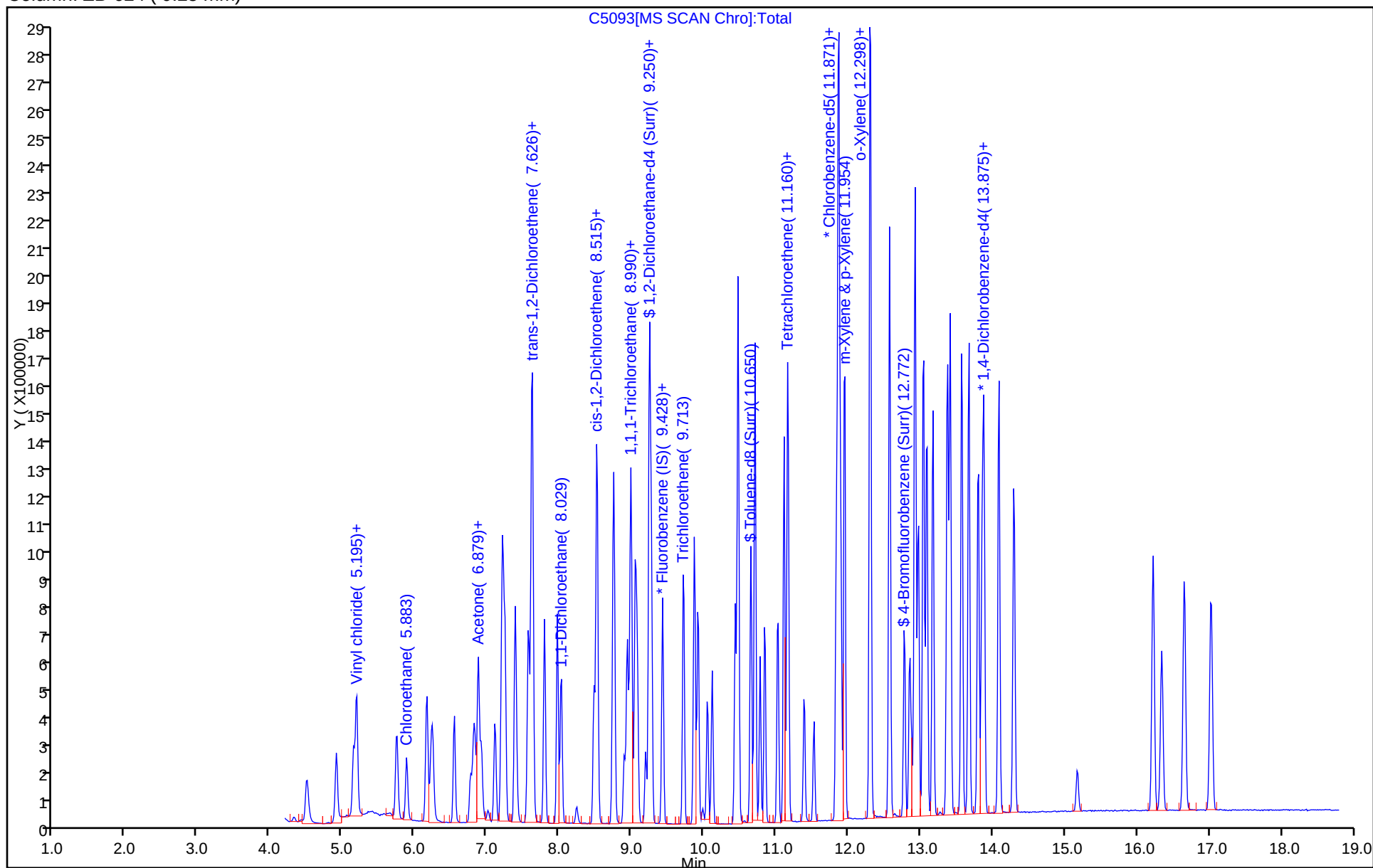
Dil. Factor: 1.0000

ALS Bottle#: 27

Method: C-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973CStart Date: 06/19/2017 14:22Analysis Batch Number: 362749End Date: 06/20/2017 00:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-362749/6		06/19/2017 14:22	1	C4687.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/8		06/19/2017 15:19	1	C4689.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/9		06/19/2017 15:44	1	C4690.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/10		06/19/2017 16:10	1	C4691.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/11		06/19/2017 16:35	1	C4692.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/12		06/19/2017 17:00	1	C4693.D	ZB-624 (60) 0.25 (mm)
ICIS 480-362749/13		06/19/2017 17:25	1	C4694.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/14		06/19/2017 17:50	1	C4695.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/15		06/19/2017 18:15	1	C4696.D	ZB-624 (60) 0.25 (mm)
MDLV 480-362749/17		06/19/2017 19:05	1		ZB-624 (60) 0.25 (mm)
IC 480-362749/20		06/19/2017 20:20	1	C4701.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/21		06/19/2017 20:46	1	C4702.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/22		06/19/2017 21:10	1	C4703.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/23		06/19/2017 21:36	1	C4704.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/24		06/19/2017 22:01	1	C4705.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/25		06/19/2017 22:27	1	C4706.D	ZB-624 (60) 0.25 (mm)
IC 480-362749/26		06/19/2017 22:52	1	C4707.D	ZB-624 (60) 0.25 (mm)
MDLV 480-362749/28		06/19/2017 23:42	1		ZB-624 (60) 0.25 (mm)
ICV 480-362749/29		06/20/2017 00:07	1	C4710.D	ZB-624 (60) 0.25 (mm)
ICV 480-362749/30		06/20/2017 00:32	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973CStart Date: 06/27/2017 21:12Analysis Batch Number: 364320End Date: 06/28/2017 08:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-364320/2		06/27/2017 21:12	1	C5067.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-364320/3		06/27/2017 21:40	1	C5068.D	ZB-624 (60) 0.25 (mm)
CCV 480-364320/4		06/27/2017 22:05	1		ZB-624 (60) 0.25 (mm)
LCS 480-364320/5		06/27/2017 22:31	1	C5070.D	ZB-624 (60) 0.25 (mm)
LCSD 480-364320/10		06/27/2017 22:57	1	C5071.D	ZB-624 (60) 0.25 (mm)
MB 480-364320/8		06/27/2017 23:48	1	C5073.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		06/28/2017 00:27	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/28/2017 00:53	2		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/28/2017 01:18	2		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/28/2017 01:43	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/28/2017 02:09	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/28/2017 02:34	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/28/2017 02:59	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/28/2017 03:24	4		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/28/2017 03:49	1		ZB-624 (60) 0.25 (mm)
480-120094-1		06/28/2017 04:14	1	C5083.D	ZB-624 (60) 0.25 (mm)
480-120094-2		06/28/2017 04:40	1	C5084.D	ZB-624 (60) 0.25 (mm)
480-120094-3		06/28/2017 05:05	1	C5085.D	ZB-624 (60) 0.25 (mm)
480-120094-4		06/28/2017 05:30	1	C5086.D	ZB-624 (60) 0.25 (mm)
480-120094-5		06/28/2017 05:56	1	C5087.D	ZB-624 (60) 0.25 (mm)
480-120094-6		06/28/2017 06:21	1	C5088.D	ZB-624 (60) 0.25 (mm)
480-120094-3 MS		06/28/2017 08:02	1	C5092.D	ZB-624 (60) 0.25 (mm)
480-120094-3 MSD		06/28/2017 08:27	1	C5093.D	ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973CStart Date: 06/28/2017 19:32Analysis Batch Number: 364568End Date: 06/29/2017 06:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-364568/2		06/28/2017 19:32	1	C5132.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-364568/3		06/28/2017 20:02	1	C5133.D	ZB-624 (60) 0.25 (mm)
CCV 480-364568/4		06/28/2017 20:27	1		ZB-624 (60) 0.25 (mm)
LCS 480-364568/5		06/28/2017 20:53	1	C5135.D	ZB-624 (60) 0.25 (mm)
MB 480-364568/7		06/28/2017 21:44	1	C5137.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		06/28/2017 22:24	1		ZB-624 (60) 0.25 (mm)
480-120094-8		06/28/2017 22:50	1	C5139.D	ZB-624 (60) 0.25 (mm)
480-120094-9		06/28/2017 23:16	1	C5140.D	ZB-624 (60) 0.25 (mm)
480-120094-10		06/28/2017 23:41	1	C5141.D	ZB-624 (60) 0.25 (mm)
480-120094-11		06/29/2017 00:06	1	C5142.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 00:31	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 00:56	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 01:21	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 01:46	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 02:11	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 02:36	50		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 03:01	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 03:27	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 03:52	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 04:17	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 04:42	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 05:07	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 05:32	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 05:57	50		ZB-624 (60) 0.25 (mm)
ZZZZZ		06/29/2017 06:22	50		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973NStart Date: 06/26/2017 14:23Analysis Batch Number: 363987End Date: 06/27/2017 01:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-363987/4		06/26/2017 14:23	1	N9065.D	ZB-624 (20) 0.18 (mm)
IC 480-363987/6		06/26/2017 15:18	1	N9067.D	ZB-624 (20) 0.18 (mm)
IC 480-363987/7		06/26/2017 15:45	1	N9068.D	ZB-624 (20) 0.18 (mm)
IC 480-363987/8		06/26/2017 16:12	1	N9069.D	ZB-624 (20) 0.18 (mm)
IC 480-363987/9		06/26/2017 16:40	1	N9070.D	ZB-624 (20) 0.18 (mm)
IC 480-363987/10		06/26/2017 17:07	1	N9071.D	ZB-624 (20) 0.18 (mm)
ICIS 480-363987/11		06/26/2017 17:35	1	N9072.D	ZB-624 (20) 0.18 (mm)
IC 480-363987/12		06/26/2017 18:01	1	N9073.D	ZB-624 (20) 0.18 (mm)
IC 480-363987/13		06/26/2017 18:28	1	N9074.D	ZB-624 (20) 0.18 (mm)
MDLV 480-363987/15		06/26/2017 19:23	1		ZB-624 (20) 0.18 (mm)
IC 480-363987/18		06/26/2017 20:45	1		ZB-624 (20) 0.18 (mm)
IC 480-363987/19		06/26/2017 21:12	1		ZB-624 (20) 0.18 (mm)
IC 480-363987/20		06/26/2017 21:39	1		ZB-624 (20) 0.18 (mm)
IC 480-363987/21		06/26/2017 22:06	1		ZB-624 (20) 0.18 (mm)
IC 480-363987/22		06/26/2017 22:33	1		ZB-624 (20) 0.18 (mm)
IC 480-363987/23		06/26/2017 23:00	1		ZB-624 (20) 0.18 (mm)
IC 480-363987/24		06/26/2017 23:27	1		ZB-624 (20) 0.18 (mm)
MDLV 480-363987/26		06/27/2017 00:22	1		ZB-624 (20) 0.18 (mm)
ICV 480-363987/27		06/27/2017 00:49	1	N9088.D	ZB-624 (20) 0.18 (mm)
ICV 480-363987/28		06/27/2017 01:16	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-120094-1

SDG No.: _____

Instrument ID: HP5973NStart Date: 06/30/2017 09:38Analysis Batch Number: 364910End Date: 06/30/2017 20:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-364910/1		06/30/2017 09:38	1	N9248.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-364910/2		06/30/2017 10:12	1	N9249.D	ZB-624 (20) 0.18 (mm)
CCV 480-364910/3		06/30/2017 10:50	1		ZB-624 (20) 0.18 (mm)
LCS 480-364910/4		06/30/2017 11:33	1	N9251.D	ZB-624 (20) 0.18 (mm)
MB 480-364910/6		06/30/2017 12:28	1	N9253.D	ZB-624 (20) 0.18 (mm)
480-120094-7		06/30/2017 13:52	1	N9254.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 14:19	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 14:46	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 15:14	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 15:41	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 16:07	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 16:34	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 17:01	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 17:29	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 17:56	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 18:23	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 18:50	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 19:18	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 19:45	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 20:12	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		06/30/2017 20:39	20		ZB-624 (20) 0.18 (mm)

GC/MS VOA Worksheet

Batch Number: 480-364320

Method: 8260C

Analyst: Schreiber, Jessie AC

Date Open: Jun 27 2017 9:12PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00062	3_MCP_Add_WRK_00134
BFB~480-364320/2		8260C			1 uL	1 uL	HP5973C		
CCVIS~480-364320/3		8260C			5 mL	5 mL	HP5973C		
CCV~480-364320/4		8260C			5 mL	5 mL	HP5973C	12.5 uL	12.5 uL
LCS~480-364320/5		8260C			5 mL	5 mL	HP5973C		12.5 uL
MB~480-364320/8		8260C			5 mL	5 mL	HP5973C		
LCSD~480-364320/10		8260C			5 mL	5 mL	HP5973C		12.5 uL
480-119819-C-3	Mixing Tank	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-119819-C-2	Influent	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-119838-C-15	EW-9	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-119838-B-16	EW-13	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-119838-B-17	M-5	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-119838-B-18	MUELLER	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-119838-C-19	OW-7	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-119868-B-1	MW-5	8260C	T	7 SU	5 mL	5 mL	HP5973C		
480-120092-E-1	MH-AB	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-1	MW-07S-062317	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-2	MW-7D-062317	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-3	X-A-1-062317	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-4	X-A-3-062317	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-5	X-A-3-062317-DUP	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-6	X-C-3-062317	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-3~MSX-A-1-062317-MS		8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-3~MSX-A-1-062317-MSD		8260C	T	< 2 SU	5 mL	5 mL	HP5973C		

GC/MS VOA Worksheet

Batch Number: 480-364320
Method: 8260C
Analyst: Schreiber, Jessie AC

Date Open: Jun 27 2017 9:12PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	3MTP_WRK_00063	8260 CORP mix_00101	ADD CORP mix_00060	BFB_WRK_00063	C_8260_IS_00089	C_8260_Surr_00099
BFB~480-364320/2		8260C					1 uL		
CCVIS~480-364320/3		8260C			12.5 uL			1 uL	1 uL
CCV~480-364320/4		8260C		12.5 uL		12.5 uL		1 uL	1 uL
LCS~480-364320/5		8260C			12.5 uL	12.5 uL		1 uL	1 uL
MB~480-364320/8		8260C						1 uL	1 uL
LCSD~480-364320/10		8260C			12.5 uL	12.5 uL		1 uL	1 uL
480-119819-C-3	Mixing Tank	8260C	T					1 uL	1 uL
480-119819-C-2	Influent	8260C	T					1 uL	1 uL
480-119838-C-15	EW-9	8260C	T					1 uL	1 uL
480-119838-B-16	EW-13	8260C	T					1 uL	1 uL
480-119838-B-17	M-5	8260C	T					1 uL	1 uL
480-119838-B-18	MUELLER	8260C	T					1 uL	1 uL
480-119838-C-19	OW-7	8260C	T					1 uL	1 uL
480-119868-B-1	MW-5	8260C	T					1 uL	1 uL
480-120092-E-1	MH-AB	8260C	T					1 uL	1 uL
480-120094-A-1	MW-07S-062317	8260C	T					1 uL	1 uL
480-120094-A-2	MW-7D-062317	8260C	T					1 uL	1 uL
480-120094-A-3	X-A-1-062317	8260C	T					1 uL	1 uL
480-120094-A-4	X-A-3-062317	8260C	T					1 uL	1 uL
480-120094-A-5	X-A-3-062317-DUP	8260C	T					1 uL	1 uL
480-120094-A-6	X-C-3-062317	8260C	T					1 uL	1 uL
480-120094-A-3~MSX-A-1-062317-MS		8260C	T		12.5 uL			1 uL	1 uL
480-120094-A-3~MSX-A-1-062317-MSD		8260C	T		12.5 uL			1 uL	1 uL
D									

GC/MS VOA Worksheet

Batch Number: 480-364320
 Method: 8260C
 Analyst: Schreiber, Jessie AC

Date Open: Jun 27 2017 9:12PM
 Batch End:

Lab ID	Client ID	Method Chain	Basis GAS CORP mix_00226	
BFB~480-364320/2		8260C		
CCVIS~480-364320/3		8260C	12.5 uL	
CCV~480-364320/4		8260C		
LCS~480-364320/5		8260C	12.5 uL	
MB~480-364320/8		8260C		
LCSD~480-364320/10		8260C	12.5 uL	
480-119819-C-3	Mixing Tank	8260C	T	
480-119819-C-2	Influent	8260C	T	
480-119838-C-15	EW-9	8260C	T	
480-119838-B-16	EW-13	8260C	T	
480-119838-B-17	M-5	8260C	T	
480-119838-B-18	MUELLER	8260C	T	
480-119838-C-19	OW-7	8260C	T	
480-119868-B-1	MW-5	8260C	T	
480-120092-E-1	MH-AB	8260C	T	
480-120094-A-1	MW-07S-062317	8260C	T	
480-120094-A-2	MW-7D-062317	8260C	T	
480-120094-A-3	X-A-1-062317	8260C	T	
480-120094-A-4	X-A-3-062317	8260C	T	
480-120094-A-5	X-A-3-062317-DUP	8260C	T	
480-120094-A-6	X-C-3-062317	8260C	T	
480-120094-A-3~MSX-A-1-062317-MS		8260C	T	12.5 uL
480-120094-A-3~MSX-A-1-062317-MSD		8260C	T	12.5 uL
D				

GC/MS VOA Worksheet

Batch Number: 480-364568

Method: 8260C

Analyst: Schreiber, Jessie AC

Date Open: Jun 28 2017 7:32PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00062	3MTP_WRK_00063
BFB~480-364568/2		8260C			1 uL	1 uL	HP5973C		
CCVIS~480-364568/3		8260C			5 mL	5 mL	HP5973C		
CCV~480-364568/4		8260C			5 mL	5 mL	HP5973C	12.5 uL	12.5 uL
LCS~480-364568/5		8260C			5 mL	5 mL	HP5973C		
MB~480-364568/7		8260C			5 mL	5 mL	HP5973C		
480-120094-A-7	RW-02-062317	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-8	MW-04-062317	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-9	MW-02-062317	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-10	MW-01-062317	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120094-A-11	TB-001-062317	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120143-D-10	MW-27	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120143-D-11	MW-14	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120143-D-12	MW-27DI	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120143-D-13	MW-26	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120143-D-14	MW-22	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120143-E-15	MW-26DI	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120143-D-16	MW-22DI	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120143-D-17	DUP-02	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120198-A-1	800S-062617-01H	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120198-A-3	800S-062617-03H	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120200-A-9	TRIP BLANK-1	8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120245-A-1	800S-062717-01H	8260C	T	7 SU	5 mL	5 mL	HP5973C		
480-120245-A-3	800S-062717-03H	8260C	T	7 SU	5 mL	5 mL	HP5973C		
480-120143-E-15~M S		8260C	T	< 2 SU	5 mL	5 mL	HP5973C		
480-120143-E-15~M SD		8260C	T	< 2 SU	5 mL	5 mL	HP5973C		

GC/MS VOA Worksheet

Batch Number: 480-364568
 Method: 8260C
 Analyst: Schreiber, Jessie AC

Date Open: Jun 28 2017 7:32PM
 Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00101	ADD CORP mix_00060	BFB_WRK_00063	C_8260_IS_00090	C_8260_Surr_00101	GAS CORP mix_00226
BFB~480-364568/2		8260C				1 uL			
CCVIS~480-364568/3		8260C		12.5 uL			1 uL	1 uL	12.5 uL
CCV~480-364568/4		8260C			12.5 uL		1 uL	1 uL	
LCS~480-364568/5		8260C		12.5 uL			1 uL	1 uL	12.5 uL
MB~480-364568/7		8260C					1 uL	1 uL	
480-120094-A-7	RW-02-062317	8260C	T				1 uL	1 uL	
480-120094-A-8	MW-04-062317	8260C	T				1 uL	1 uL	
480-120094-A-9	MW-02-062317	8260C	T				1 uL	1 uL	
480-120094-A-10	MW-01-062317	8260C	T				1 uL	1 uL	
480-120094-A-11	TB-001-062317	8260C	T				1 uL	1 uL	
480-120143-D-10	MW-27	8260C	T				1 uL	1 uL	
480-120143-D-11	MW-14	8260C	T				1 uL	1 uL	
480-120143-D-12	MW-27DI	8260C	T				1 uL	1 uL	
480-120143-D-13	MW-26	8260C	T				1 uL	1 uL	
480-120143-D-14	MW-22	8260C	T				1 uL	1 uL	
480-120143-E-15	MW-26DI	8260C	T				1 uL	1 uL	
480-120143-D-16	MW-22DI	8260C	T				1 uL	1 uL	
480-120143-D-17	DUP-02	8260C	T				1 uL	1 uL	
480-120198-A-1	800S-062617-01H	8260C	T				1 uL	1 uL	
480-120198-A-3	800S-062617-03H	8260C	T				1 uL	1 uL	
480-120200-A-9	TRIP BLANK-1	8260C	T				1 uL	1 uL	
480-120245-A-1	800S-062717-01H	8260C	T				1 uL	1 uL	
480-120245-A-3	800S-062717-03H	8260C	T				1 uL	1 uL	
480-120143-E-15~MS		8260C	T	12.5 uL			1 uL	1 uL	12.5 uL
480-120143-E-15~MSD		8260C	T	12.5 uL			1 uL	1 uL	12.5 uL

GC/MS VOA Worksheet

Batch Number: 480-364568
 Method: 8260C
 Analyst: Schreiber, Jessie AC

Date Open: Jun 28 2017 7:32PM
 Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
BFB~480-364568/2		8260C		
CCVIS~480-364568/3		8260C		
CCV~480-364568/4		8260C		
LCS~480-364568/5		8260C		
MB~480-364568/7		8260C		
480-120094-A-7	RW-02-062317	8260C	T	
480-120094-A-8	MW-04-062317	8260C	T	
480-120094-A-9	MW-02-062317	8260C	T	
480-120094-A-10	MW-01-062317	8260C	T	
480-120094-A-11	TB-001-062317	8260C	T	
480-120143-D-10	MW-27	8260C	T	
480-120143-D-11	MW-14	8260C	T	
480-120143-D-12	MW-27DI	8260C	T	
480-120143-D-13	MW-26	8260C	T	
480-120143-D-14	MW-22	8260C	T	
480-120143-E-15	MW-26DI	8260C	T	
480-120143-D-16	MW-22DI	8260C	T	
480-120143-D-17	DUP-02	8260C	T	
480-120198-A-1	800S-062617-01H	8260C	T	
480-120198-A-3	800S-062617-03H	8260C	T	
480-120200-A-9	TRIP BLANK-1	8260C	T	
480-120245-A-1	800S-062717-01H	8260C	T	
480-120245-A-3	800S-062717-03H	8260C	T	
480-120143-E-15~MS		8260C	T	Batch
480-120143-E-15~MSD		8260C	T	Batch

GC/MS VOA Worksheet

Batch Number: 480-364910

Method: 8260C

Analyst: Hill, Leah C

Date Open: Jun 30 2017 9:38AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00062	3MTP_WRK_00064
BFB~480-364910/1		8260C			1 uL	1 uL	HP5973N		
CCVIS~480-364910/2		8260C			5 mL	5 mL	HP5973N		
CCV~480-364910/3		8260C			5 mL	5 mL	HP5973N	12.5 uL	12.5 uL
LCS~480-364910/4		8260C			5 mL	5 mL	HP5973N		
MB~480-364910/6		8260C			5 mL	5 mL	HP5973N		
480-120094-B-7	RW-02-062317	8260C	T	<2 SU	5 mL	5 mL	HP5973N		
480-120143-D-23	MW-01				5 mL	5 mL	HP5973N		
480-120077-A-1	TRIP BLANK				5 mL	5 mL	HP5973N		
480-120077-B-2	WG-007830-062217-B P-011				5 mL	5 mL	HP5973N		
480-120180-A-7	MW-7				5 mL	5 mL	HP5973N		
480-120180-A-8	MW-9				5 mL	5 mL	HP5973N		
480-120180-A-9	TRIP BLANK				5 mL	5 mL	HP5973N		
480-120183-A-1	EFFLUENT				5 mL	5 mL	HP5973N		
480-120183-A-2	MID-CARBON				5 mL	5 mL	HP5973N		
480-120183-A-3	COMBINED INFLUENT				5 mL	5 mL	HP5973N		
480-120183-A-4	TRIP BLANK				5 mL	5 mL	HP5973N		

GC/MS VOA Worksheet

Batch Number: 480-364910

Method: 8260C

Analyst: Hill, Leah C

Date Open: Jun 30 2017 9:38AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00101	ADD CORP mix_00060	BFB_WRK_00063	GAS CORP mix_00226	N 8260 IS_00075	N_8260_Surr_00273
BFB~480-364910/1		8260C				1 uL			
CCVIS~480-364910/ 2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-364910/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-364910/4		8260C		12.5 uL			12.5 uL	1 uL	1 uL
MB~480-364910/6		8260C						1 uL	1 uL
480-120094-B-7	RW-02-062317	8260C	T					1 uL	1 uL
480-120143-D-23	MW-01							1 uL	1 uL
480-120077-A-1	TRIP BLANK							1 uL	1 uL
480-120077-B-2	WG-007830-062217-B P-011							1 uL	1 uL
480-120180-A-7	MW-7							1 uL	1 uL
480-120180-A-8	MW-9							1 uL	1 uL
480-120180-A-9	TRIP BLANK							1 uL	1 uL
480-120183-A-1	EFFLUENT							1 uL	1 uL
480-120183-A-2	MID-CARBON							1 uL	1 uL
480-120183-A-3	COMBINED INFLUENT							1 uL	1 uL
480-120183-A-4	TRIP BLANK							1 uL	1 uL

Shipping and Receiving Documents

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Jay Burkard		Site Contact: Jay Burkard		Date: 06/23/17		COC No: 1 of 1 COCs	
Company Name: CHAM		Tel/Fax: 314-477-7284		Lab Contact: Jay Burkard		Carrier: Hand Delivered		Sampler:	
Address: 300 Hunter Ave., Suite 305								For Lab Use Only:	
City/State/Zip: St. Louis, MO 63124								Walk	
Phone: 314-477-7284								Lab	
Fax: 314-477-7284								Job	
Project Name: David Depew								480-120094 COC	
Site: David Depew								Sample Specific Notes:	
PO # Direct Bill 681708.17.06.02									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes
MW-075-062317	6/23/17	1230	G	GW	3	N	N	
MW-070-062317	6/23/17	1245	G	GW	3	N	N	
X-A-1-062317	6/23/17	1300	G	GW	3	N	N	
X-A-1-062317-MS	6/23/17	1300	G	GW	3	N	N	
X-A-1-062317-MSD	6/23/17	1300	G	GW	3	N	N	
X-A-3-062317	6/23/17	1345	G	GW	3	N	N	
X-A-3-062317-DUP	6/23/17	1350	G	GW	3	N	N	
X-5-3-062317	6/23/17	1330	G	GW	3	N	N	
RW-02-062317	6/23/17	1430	G	GW	3	N	N	
MW-04-062317	6/23/17	1445	G	GW	3	N	N	
MW-02-062317	6/23/17	1515	G	GW	3	N	N	
MW-01-062317	6/23/17	1530	G	GW	3	N	N	

Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☒ Unknown ☐ Poison B

Special Instructions/QC Requirements & Comments: Trip Blank Sample ID - TB-001-062317

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

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Cooler Temp. (°C): Obs'd: 5.0 Cor'd: 5.0 Therm ID No.: #1

Relinquished by: Jay Burkard Date/Time: 6/23/17 1200 Company: CHAM

Relinquished by: Date/Time: Company:

Relinquished by: Date/Time: Company:

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Login Number: 120094

List Number: 1

Creator: Kolb, Chris M

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	CH2M
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-120094-1

Client Project/Site: Dowell - Depew Site

For:

CH2M Hill, Inc.

300 Hunter Avenue

Suite 305

St Louis, Missouri 63124

Attn: Ms. Shane Lowe



Authorized for release by:

7/3/2017 10:17:24 AM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager II

(716)504-9838

john.schove@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Job ID: 480-120094-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-120094-1

Comments

No additional comments.

Receipt

The samples were received on 6/23/2017 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-364568 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-04-062317 (480-120094-8), MW-02-062317 (480-120094-9), MW-01-062317 (480-120094-10) and TB-001-062317 (480-120094-11).

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

Detection Summary

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: MW-07S-062317

Lab Sample ID: 480-120094-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.691	J	1.00	0.380	ug/L	1		8260C	Total/NA

Client Sample ID: MW-7D-062317

Lab Sample ID: 480-120094-2

No Detections.

Client Sample ID: X-A-1-062317

Lab Sample ID: 480-120094-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	2.61		2.00	0.810	ug/L	1		8260C	Total/NA
Benzene	0.518	J	1.00	0.410	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.61		1.00	0.810	ug/L	1		8260C	Total/NA
Vinyl chloride	5.41	F1	1.00	0.900	ug/L	1		8260C	Total/NA

Client Sample ID: X-A-3-062317

Lab Sample ID: 480-120094-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.16		1.00	0.380	ug/L	1		8260C	Total/NA
1,2-Dichloroethene, Total	2.48		2.00	0.810	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.48		1.00	0.810	ug/L	1		8260C	Total/NA
Vinyl chloride	5.23		1.00	0.900	ug/L	1		8260C	Total/NA

Client Sample ID: X-A-3-062317-DUP

Lab Sample ID: 480-120094-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.14		1.00	0.380	ug/L	1		8260C	Total/NA
1,2-Dichloroethene, Total	2.42		2.00	0.810	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.42		1.00	0.810	ug/L	1		8260C	Total/NA
Vinyl chloride	5.08		1.00	0.900	ug/L	1		8260C	Total/NA

Client Sample ID: X-C-3-062317

Lab Sample ID: 480-120094-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.801	J	1.00	0.380	ug/L	1		8260C	Total/NA
1,2-Dichloroethene, Total	2.34		2.00	0.810	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.34		1.00	0.810	ug/L	1		8260C	Total/NA
Vinyl chloride	9.15		1.00	0.900	ug/L	1		8260C	Total/NA

Client Sample ID: RW-02-062317

Lab Sample ID: 480-120094-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	6.12		2.00	0.810	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	6.12		1.00	0.810	ug/L	1		8260C	Total/NA
Trichloroethene	3.14		1.00	0.460	ug/L	1		8260C	Total/NA
Vinyl chloride	2.11		1.00	0.900	ug/L	1		8260C	Total/NA

Client Sample ID: MW-04-062317

Lab Sample ID: 480-120094-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: MW-02-062317

Lab Sample ID: 480-120094-9

No Detections.

Client Sample ID: MW-01-062317

Lab Sample ID: 480-120094-10

No Detections.

Client Sample ID: TB-001-062317

Lab Sample ID: 480-120094-11

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: MW-07S-062317

Lab Sample ID: 480-120094-1

Date Collected: 06/23/17 12:30

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/28/17 04:14	1
1,1-Dichloroethane	0.691	J	1.00	0.380	ug/L			06/28/17 04:14	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/28/17 04:14	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/28/17 04:14	1
1,2-Dichloroethene, Total	0.810	U	2.00	0.810	ug/L			06/28/17 04:14	1
Acetone	3.00	U	10.0	3.00	ug/L			06/28/17 04:14	1
Benzene	0.410	U	1.00	0.410	ug/L			06/28/17 04:14	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/28/17 04:14	1
cis-1,2-Dichloroethene	0.810	U	1.00	0.810	ug/L			06/28/17 04:14	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/28/17 04:14	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/28/17 04:14	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/28/17 04:14	1
Vinyl chloride	0.900	U	1.00	0.900	ug/L			06/28/17 04:14	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/28/17 04:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					06/28/17 04:14	1
4-Bromofluorobenzene (Surr)	86		73 - 120					06/28/17 04:14	1
Toluene-d8 (Surr)	90		80 - 120					06/28/17 04:14	1
Dibromofluoromethane (Surr)	85		75 - 123					06/28/17 04:14	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: MW-7D-062317

Lab Sample ID: 480-120094-2

Date Collected: 06/23/17 12:45

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/28/17 04:40	1
1,1-Dichloroethane	0.380	U	1.00	0.380	ug/L			06/28/17 04:40	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/28/17 04:40	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/28/17 04:40	1
1,2-Dichloroethene, Total	0.810	U	2.00	0.810	ug/L			06/28/17 04:40	1
Acetone	3.00	U	10.0	3.00	ug/L			06/28/17 04:40	1
Benzene	0.410	U	1.00	0.410	ug/L			06/28/17 04:40	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/28/17 04:40	1
cis-1,2-Dichloroethene	0.810	U	1.00	0.810	ug/L			06/28/17 04:40	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/28/17 04:40	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/28/17 04:40	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/28/17 04:40	1
Vinyl chloride	0.900	U	1.00	0.900	ug/L			06/28/17 04:40	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/28/17 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					06/28/17 04:40	1
4-Bromofluorobenzene (Surr)	85		73 - 120					06/28/17 04:40	1
Toluene-d8 (Surr)	90		80 - 120					06/28/17 04:40	1
Dibromofluoromethane (Surr)	86		75 - 123					06/28/17 04:40	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: X-A-1-062317

Lab Sample ID: 480-120094-3

Date Collected: 06/23/17 13:00

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/28/17 05:05	1
1,1-Dichloroethane	0.380	U	1.00	0.380	ug/L			06/28/17 05:05	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/28/17 05:05	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/28/17 05:05	1
1,2-Dichloroethene, Total	2.61		2.00	0.810	ug/L			06/28/17 05:05	1
Acetone	3.00	U	10.0	3.00	ug/L			06/28/17 05:05	1
Benzene	0.518	J	1.00	0.410	ug/L			06/28/17 05:05	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/28/17 05:05	1
cis-1,2-Dichloroethene	2.61		1.00	0.810	ug/L			06/28/17 05:05	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/28/17 05:05	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/28/17 05:05	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/28/17 05:05	1
Vinyl chloride	5.41	F1	1.00	0.900	ug/L			06/28/17 05:05	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/28/17 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		06/28/17 05:05	1
4-Bromofluorobenzene (Surr)	87		73 - 120		06/28/17 05:05	1
Toluene-d8 (Surr)	91		80 - 120		06/28/17 05:05	1
Dibromofluoromethane (Surr)	88		75 - 123		06/28/17 05:05	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: X-A-3-062317

Lab Sample ID: 480-120094-4

Date Collected: 06/23/17 13:45

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/28/17 05:30	1
1,1-Dichloroethane	2.16		1.00	0.380	ug/L			06/28/17 05:30	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/28/17 05:30	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/28/17 05:30	1
1,2-Dichloroethene, Total	2.48		2.00	0.810	ug/L			06/28/17 05:30	1
Acetone	3.00	U	10.0	3.00	ug/L			06/28/17 05:30	1
Benzene	0.410	U	1.00	0.410	ug/L			06/28/17 05:30	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/28/17 05:30	1
cis-1,2-Dichloroethene	2.48		1.00	0.810	ug/L			06/28/17 05:30	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/28/17 05:30	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/28/17 05:30	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/28/17 05:30	1
Vinyl chloride	5.23		1.00	0.900	ug/L			06/28/17 05:30	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/28/17 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		06/28/17 05:30	1
4-Bromofluorobenzene (Surr)	87		73 - 120		06/28/17 05:30	1
Toluene-d8 (Surr)	91		80 - 120		06/28/17 05:30	1
Dibromofluoromethane (Surr)	87		75 - 123		06/28/17 05:30	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: X-A-3-062317-DUP

Lab Sample ID: 480-120094-5

Date Collected: 06/23/17 13:50

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/28/17 05:56	1
1,1-Dichloroethane	2.14		1.00	0.380	ug/L			06/28/17 05:56	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/28/17 05:56	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/28/17 05:56	1
1,2-Dichloroethene, Total	2.42		2.00	0.810	ug/L			06/28/17 05:56	1
Acetone	3.00	U	10.0	3.00	ug/L			06/28/17 05:56	1
Benzene	0.410	U	1.00	0.410	ug/L			06/28/17 05:56	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/28/17 05:56	1
cis-1,2-Dichloroethene	2.42		1.00	0.810	ug/L			06/28/17 05:56	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/28/17 05:56	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/28/17 05:56	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/28/17 05:56	1
Vinyl chloride	5.08		1.00	0.900	ug/L			06/28/17 05:56	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/28/17 05:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120		06/28/17 05:56	1
4-Bromofluorobenzene (Surr)	87		73 - 120		06/28/17 05:56	1
Toluene-d8 (Surr)	90		80 - 120		06/28/17 05:56	1
Dibromofluoromethane (Surr)	85		75 - 123		06/28/17 05:56	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: X-C-3-062317

Lab Sample ID: 480-120094-6

Date Collected: 06/23/17 13:30

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/28/17 06:21	1
1,1-Dichloroethane	0.801	J	1.00	0.380	ug/L			06/28/17 06:21	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/28/17 06:21	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/28/17 06:21	1
1,2-Dichloroethene, Total	2.34		2.00	0.810	ug/L			06/28/17 06:21	1
Acetone	3.00	U	10.0	3.00	ug/L			06/28/17 06:21	1
Benzene	0.410	U	1.00	0.410	ug/L			06/28/17 06:21	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/28/17 06:21	1
cis-1,2-Dichloroethene	2.34		1.00	0.810	ug/L			06/28/17 06:21	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/28/17 06:21	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/28/17 06:21	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/28/17 06:21	1
Vinyl chloride	9.15		1.00	0.900	ug/L			06/28/17 06:21	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/28/17 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		06/28/17 06:21	1
4-Bromofluorobenzene (Surr)	86		73 - 120		06/28/17 06:21	1
Toluene-d8 (Surr)	90		80 - 120		06/28/17 06:21	1
Dibromofluoromethane (Surr)	88		75 - 123		06/28/17 06:21	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: RW-02-062317

Lab Sample ID: 480-120094-7

Date Collected: 06/23/17 14:30

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/30/17 13:52	1
1,1-Dichloroethane	0.380	U	1.00	0.380	ug/L			06/30/17 13:52	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/30/17 13:52	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/30/17 13:52	1
1,2-Dichloroethene, Total	6.12		2.00	0.810	ug/L			06/30/17 13:52	1
Acetone	3.00	U	10.0	3.00	ug/L			06/30/17 13:52	1
Benzene	0.410	U	1.00	0.410	ug/L			06/30/17 13:52	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/30/17 13:52	1
cis-1,2-Dichloroethene	6.12		1.00	0.810	ug/L			06/30/17 13:52	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/30/17 13:52	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/30/17 13:52	1
Trichloroethene	3.14		1.00	0.460	ug/L			06/30/17 13:52	1
Vinyl chloride	2.11		1.00	0.900	ug/L			06/30/17 13:52	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/30/17 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		06/30/17 13:52	1
4-Bromofluorobenzene (Surr)	103		73 - 120		06/30/17 13:52	1
Toluene-d8 (Surr)	105		80 - 120		06/30/17 13:52	1
Dibromofluoromethane (Surr)	112		75 - 123		06/30/17 13:52	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: MW-04-062317

Lab Sample ID: 480-120094-8

Date Collected: 06/23/17 14:45

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/28/17 22:50	1
1,1-Dichloroethane	0.380	U	1.00	0.380	ug/L			06/28/17 22:50	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/28/17 22:50	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/28/17 22:50	1
1,2-Dichloroethene, Total	0.810	U	2.00	0.810	ug/L			06/28/17 22:50	1
Acetone	3.00	U	10.0	3.00	ug/L			06/28/17 22:50	1
Benzene	0.410	U	1.00	0.410	ug/L			06/28/17 22:50	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/28/17 22:50	1
cis-1,2-Dichloroethene	0.810	U	1.00	0.810	ug/L			06/28/17 22:50	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/28/17 22:50	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/28/17 22:50	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/28/17 22:50	1
Vinyl chloride	0.900	U	1.00	0.900	ug/L			06/28/17 22:50	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/28/17 22:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120					06/28/17 22:50	1
4-Bromofluorobenzene (Surr)	84		73 - 120					06/28/17 22:50	1
Toluene-d8 (Surr)	105		80 - 120					06/28/17 22:50	1
Dibromofluoromethane (Surr)	103		75 - 123					06/28/17 22:50	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: MW-02-062317

Lab Sample ID: 480-120094-9

Date Collected: 06/23/17 15:15

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/28/17 23:16	1
1,1-Dichloroethane	0.380	U	1.00	0.380	ug/L			06/28/17 23:16	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/28/17 23:16	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/28/17 23:16	1
1,2-Dichloroethene, Total	0.810	U	2.00	0.810	ug/L			06/28/17 23:16	1
Acetone	3.00	U	10.0	3.00	ug/L			06/28/17 23:16	1
Benzene	0.410	U	1.00	0.410	ug/L			06/28/17 23:16	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/28/17 23:16	1
cis-1,2-Dichloroethene	0.810	U	1.00	0.810	ug/L			06/28/17 23:16	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/28/17 23:16	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/28/17 23:16	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/28/17 23:16	1
Vinyl chloride	0.900	U	1.00	0.900	ug/L			06/28/17 23:16	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/28/17 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120					06/28/17 23:16	1
4-Bromofluorobenzene (Surr)	85		73 - 120					06/28/17 23:16	1
Toluene-d8 (Surr)	104		80 - 120					06/28/17 23:16	1
Dibromofluoromethane (Surr)	102		75 - 123					06/28/17 23:16	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: MW-01-062317

Lab Sample ID: 480-120094-10

Date Collected: 06/23/17 15:30

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/28/17 23:41	1
1,1-Dichloroethane	0.380	U	1.00	0.380	ug/L			06/28/17 23:41	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/28/17 23:41	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/28/17 23:41	1
1,2-Dichloroethene, Total	0.810	U	2.00	0.810	ug/L			06/28/17 23:41	1
Acetone	3.00	U	10.0	3.00	ug/L			06/28/17 23:41	1
Benzene	0.410	U	1.00	0.410	ug/L			06/28/17 23:41	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/28/17 23:41	1
cis-1,2-Dichloroethene	0.810	U	1.00	0.810	ug/L			06/28/17 23:41	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/28/17 23:41	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/28/17 23:41	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/28/17 23:41	1
Vinyl chloride	0.900	U	1.00	0.900	ug/L			06/28/17 23:41	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/28/17 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		77 - 120					06/28/17 23:41	1
4-Bromofluorobenzene (Surr)	85		73 - 120					06/28/17 23:41	1
Toluene-d8 (Surr)	104		80 - 120					06/28/17 23:41	1
Dibromofluoromethane (Surr)	105		75 - 123					06/28/17 23:41	1

Client Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: TB-001-062317

Lab Sample ID: 480-120094-11

Date Collected: 06/23/17 00:00

Matrix: Water

Date Received: 06/23/17 17:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.820	U	1.00	0.820	ug/L			06/29/17 00:06	1
1,1-Dichloroethane	0.380	U	1.00	0.380	ug/L			06/29/17 00:06	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/29/17 00:06	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/29/17 00:06	1
1,2-Dichloroethene, Total	0.810	U	2.00	0.810	ug/L			06/29/17 00:06	1
Acetone	3.00	U	10.0	3.00	ug/L			06/29/17 00:06	1
Benzene	0.410	U	1.00	0.410	ug/L			06/29/17 00:06	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/29/17 00:06	1
cis-1,2-Dichloroethene	0.810	U	1.00	0.810	ug/L			06/29/17 00:06	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/29/17 00:06	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/29/17 00:06	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/29/17 00:06	1
Vinyl chloride	0.900	U	1.00	0.900	ug/L			06/29/17 00:06	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/29/17 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120					06/29/17 00:06	1
4-Bromofluorobenzene (Surr)	85		73 - 120					06/29/17 00:06	1
Toluene-d8 (Surr)	105		80 - 120					06/29/17 00:06	1
Dibromofluoromethane (Surr)	102		75 - 123					06/29/17 00:06	1

Surrogate Summary

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
480-120094-1	MW-07S-062317	94	86	90	85
480-120094-2	MW-7D-062317	94	85	90	86
480-120094-3	X-A-1-062317	95	87	91	88
480-120094-3 MS	X-A-1-062317-MS	88	89	91	86
480-120094-3 MSD	X-A-1-062317-MSD	90	88	89	86
480-120094-4	X-A-3-062317	94	87	91	87
480-120094-5	X-A-3-062317-DUP	92	87	90	85
480-120094-6	X-C-3-062317	94	86	90	88
480-120094-7	RW-02-062317	114	103	105	112
480-120094-8	MW-04-062317	115	84	105	103
480-120094-9	MW-02-062317	115	85	104	102
480-120094-10	MW-01-062317	118	85	104	105
480-120094-11	TB-001-062317	115	85	105	102
LCS 480-364320/5	Lab Control Sample	89	89	94	77
LCS 480-364568/5	Lab Control Sample	112	87	107	104
LCS 480-364910/4	Lab Control Sample	111	98	105	109
LCSD 480-364320/10	Lab Control Sample Dup	85	89	94	75
MB 480-364320/8	Method Blank	92	88	92	87
MB 480-364568/7	Method Blank	113	85	105	101
MB 480-364910/6	Method Blank	108	99	104	111

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-364320/8

Matrix: Water

Analysis Batch: 364320

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	0.820	U	1.00	0.820	ug/L			06/27/17 23:48	1
1,1-Dichloroethane	0.380	U	1.00	0.380	ug/L			06/27/17 23:48	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/27/17 23:48	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/27/17 23:48	1
1,2-Dichloroethene, Total	0.810	U	2.00	0.810	ug/L			06/27/17 23:48	1
Acetone	3.00	U	10.0	3.00	ug/L			06/27/17 23:48	1
Benzene	0.410	U	1.00	0.410	ug/L			06/27/17 23:48	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/27/17 23:48	1
cis-1,2-Dichloroethene	0.810	U	1.00	0.810	ug/L			06/27/17 23:48	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/27/17 23:48	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/27/17 23:48	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/27/17 23:48	1
Vinyl chloride	0.900	U	1.00	0.900	ug/L			06/27/17 23:48	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/27/17 23:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120		06/27/17 23:48	1
4-Bromofluorobenzene (Surr)	88		73 - 120		06/27/17 23:48	1
Toluene-d8 (Surr)	92		80 - 120		06/27/17 23:48	1
Dibromofluoromethane (Surr)	87		75 - 123		06/27/17 23:48	1

Lab Sample ID: LCS 480-364320/5

Matrix: Water

Analysis Batch: 364320

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	19.94		ug/L		80	73 - 126
1,1-Dichloroethane	25.0	20.48		ug/L		82	77 - 120
1,1-Dichloroethene	25.0	18.51		ug/L		74	66 - 127
1,2-Dichloroethane	25.0	21.10		ug/L		84	75 - 120
Acetone	125	109.0		ug/L		87	56 - 142
Benzene	25.0	19.82		ug/L		79	71 - 124
Chloroethane	25.0	21.08		ug/L		84	69 - 136
cis-1,2-Dichloroethene	25.0	19.73		ug/L		79	74 - 124
Ethylbenzene	25.0	22.62		ug/L		90	77 - 123
Tetrachloroethene	25.0	25.32		ug/L		101	74 - 122
Trichloroethene	25.0	20.02		ug/L		80	74 - 123
Vinyl chloride	25.0	23.59		ug/L		94	65 - 133
Xylenes, Total	50.0	44.32		ug/L		89	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		77 - 120
4-Bromofluorobenzene (Surr)	89		73 - 120
Toluene-d8 (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	77		75 - 123

TestAmerica Buffalo

QC Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

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

Lab Sample ID: LCSD 480-364320/10

Matrix: Water

Analysis Batch: 364320

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	25.0	20.41		ug/L		82	73 - 126	2	15
1,1-Dichloroethane	25.0	20.86		ug/L		83	77 - 120	2	20
1,1-Dichloroethene	25.0	19.11		ug/L		76	66 - 127	3	16
1,2-Dichloroethane	25.0	20.53		ug/L		82	75 - 120	3	20
Acetone	125	105.8		ug/L		85	56 - 142	3	15
Benzene	25.0	20.27		ug/L		81	71 - 124	2	13
Chloroethane	25.0	22.22		ug/L		89	69 - 136	5	15
cis-1,2-Dichloroethene	25.0	19.92		ug/L		80	74 - 124	1	15
Ethylbenzene	25.0	23.67		ug/L		95	77 - 123	5	15
Tetrachloroethene	25.0	27.70		ug/L		111	74 - 122	9	20
Trichloroethene	25.0	20.71		ug/L		83	74 - 123	3	16
Vinyl chloride	25.0	24.64		ug/L		99	65 - 133	4	15
Xylenes, Total	50.0	46.13		ug/L		92	76 - 122	4	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		77 - 120
4-Bromofluorobenzene (Surr)	89		73 - 120
Toluene-d8 (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	75		75 - 123

Lab Sample ID: 480-120094-3 MS

Matrix: Water

Analysis Batch: 364320

Client Sample ID: X-A-1-062317-MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.820	U	25.0	24.91		ug/L		100	73 - 126
1,1-Dichloroethane	0.380	U	25.0	25.12		ug/L		100	77 - 120
1,1-Dichloroethene	0.290	U	25.0	23.10		ug/L		92	66 - 127
1,2-Dichloroethane	0.210	U	25.0	24.33		ug/L		97	75 - 120
Acetone	3.00	U	125	121.2		ug/L		97	56 - 142
Benzene	0.518	J	25.0	24.72		ug/L		97	71 - 124
Chloroethane	0.320	U	25.0	30.47		ug/L		122	69 - 136
cis-1,2-Dichloroethene	2.61		25.0	26.36		ug/L		95	74 - 124
Ethylbenzene	0.740	U	25.0	24.08		ug/L		96	77 - 123
Tetrachloroethene	0.360	U	25.0	22.93		ug/L		92	74 - 122
Trichloroethene	0.460	U	25.0	23.67		ug/L		95	74 - 123
Vinyl chloride	5.41	F1	25.0	41.67	F1	ug/L		145	65 - 133
Xylenes, Total	0.660	U	50.0	47.36		ug/L		95	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		77 - 120
4-Bromofluorobenzene (Surr)	89		73 - 120
Toluene-d8 (Surr)	91		80 - 120
Dibromofluoromethane (Surr)	86		75 - 123

TestAmerica Buffalo

QC Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

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

Lab Sample ID: 480-120094-3 MSD

Matrix: Water

Analysis Batch: 364320

Client Sample ID: X-A-1-062317-MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.820	U	25.0	25.69		ug/L		103	73 - 126	3	15
1,1-Dichloroethane	0.380	U	25.0	25.81		ug/L		103	77 - 120	3	20
1,1-Dichloroethene	0.290	U	25.0	23.73		ug/L		95	66 - 127	3	16
1,2-Dichloroethane	0.210	U	25.0	24.82		ug/L		99	75 - 120	2	20
Acetone	3.00	U	125	123.2		ug/L		99	56 - 142	2	15
Benzene	0.518	J	25.0	25.15		ug/L		99	71 - 124	2	13
Chloroethane	0.320	U	25.0	30.44		ug/L		122	69 - 136	0	15
cis-1,2-Dichloroethene	2.61		25.0	26.88		ug/L		97	74 - 124	2	15
Ethylbenzene	0.740	U	25.0	23.92		ug/L		96	77 - 123	1	15
Tetrachloroethene	0.360	U	25.0	22.96		ug/L		92	74 - 122	0	20
Trichloroethene	0.460	U	25.0	24.08		ug/L		96	74 - 123	2	16
Vinyl chloride	5.41	F1	25.0	41.15	F1	ug/L		143	65 - 133	1	15
Xylenes, Total	0.660	U	50.0	46.79		ug/L		94	76 - 122	1	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		77 - 120
4-Bromofluorobenzene (Surr)	88		73 - 120
Toluene-d8 (Surr)	89		80 - 120
Dibromofluoromethane (Surr)	86		75 - 123

Lab Sample ID: MB 480-364568/7

Matrix: Water

Analysis Batch: 364568

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	0.820	U	1.00	0.820	ug/L			06/28/17 21:44	1
1,1-Dichloroethane	0.380	U	1.00	0.380	ug/L			06/28/17 21:44	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/28/17 21:44	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/28/17 21:44	1
1,2-Dichloroethene, Total	0.810	U	2.00	0.810	ug/L			06/28/17 21:44	1
Acetone	3.00	U	10.0	3.00	ug/L			06/28/17 21:44	1
Benzene	0.410	U	1.00	0.410	ug/L			06/28/17 21:44	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/28/17 21:44	1
cis-1,2-Dichloroethene	0.810	U	1.00	0.810	ug/L			06/28/17 21:44	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/28/17 21:44	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/28/17 21:44	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/28/17 21:44	1
Vinyl chloride	0.900	U	1.00	0.900	ug/L			06/28/17 21:44	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/28/17 21:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		06/28/17 21:44	1
4-Bromofluorobenzene (Surr)	85		73 - 120		06/28/17 21:44	1
Toluene-d8 (Surr)	105		80 - 120		06/28/17 21:44	1
Dibromofluoromethane (Surr)	101		75 - 123		06/28/17 21:44	1

TestAmerica Buffalo

QC Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

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

Lab Sample ID: LCS 480-364568/5

Matrix: Water

Analysis Batch: 364568

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	22.93		ug/L		92	73 - 126
1,1-Dichloroethane	25.0	23.47		ug/L		94	77 - 120
1,1-Dichloroethene	25.0	21.60		ug/L		86	66 - 127
1,2-Dichloroethane	25.0	24.06		ug/L		96	75 - 120
Acetone	125	128.3		ug/L		103	56 - 142
Benzene	25.0	22.88		ug/L		92	71 - 124
Chloroethane	25.0	24.24		ug/L		97	69 - 136
cis-1,2-Dichloroethene	25.0	22.62		ug/L		90	74 - 124
Ethylbenzene	25.0	22.61		ug/L		90	77 - 123
Tetrachloroethene	25.0	21.85		ug/L		87	74 - 122
Trichloroethene	25.0	21.96		ug/L		88	74 - 123
Vinyl chloride	25.0	28.09		ug/L		112	65 - 133
Xylenes, Total	50.0	44.33		ug/L		89	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		77 - 120
4-Bromofluorobenzene (Surr)	87		73 - 120
Toluene-d8 (Surr)	107		80 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Lab Sample ID: MB 480-364910/6

Matrix: Water

Analysis Batch: 364910

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	0.820	U	1.00	0.820	ug/L			06/30/17 12:28	1
1,1-Dichloroethane	0.380	U	1.00	0.380	ug/L			06/30/17 12:28	1
1,1-Dichloroethene	0.290	U	1.00	0.290	ug/L			06/30/17 12:28	1
1,2-Dichloroethane	0.210	U	1.00	0.210	ug/L			06/30/17 12:28	1
1,2-Dichloroethene, Total	0.810	U	2.00	0.810	ug/L			06/30/17 12:28	1
Acetone	3.00	U	10.0	3.00	ug/L			06/30/17 12:28	1
Benzene	0.410	U	1.00	0.410	ug/L			06/30/17 12:28	1
Chloroethane	0.320	U	1.00	0.320	ug/L			06/30/17 12:28	1
cis-1,2-Dichloroethene	0.810	U	1.00	0.810	ug/L			06/30/17 12:28	1
Ethylbenzene	0.740	U	1.00	0.740	ug/L			06/30/17 12:28	1
Tetrachloroethene	0.360	U	1.00	0.360	ug/L			06/30/17 12:28	1
Trichloroethene	0.460	U	1.00	0.460	ug/L			06/30/17 12:28	1
Vinyl chloride	0.900	U	1.00	0.900	ug/L			06/30/17 12:28	1
Xylenes, Total	0.660	U	2.00	0.660	ug/L			06/30/17 12:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		06/30/17 12:28	1
4-Bromofluorobenzene (Surr)	99		73 - 120		06/30/17 12:28	1
Toluene-d8 (Surr)	104		80 - 120		06/30/17 12:28	1
Dibromofluoromethane (Surr)	111		75 - 123		06/30/17 12:28	1

TestAmerica Buffalo

QC Sample Results

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

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

Lab Sample ID: LCS 480-364910/4

Matrix: Water

Analysis Batch: 364910

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	25.00		ug/L		100	73 - 126
1,1-Dichloroethane	25.0	24.45		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	25.90		ug/L		104	66 - 127
1,2-Dichloroethane	25.0	23.45		ug/L		94	75 - 120
Acetone	125	151.4		ug/L		121	56 - 142
Benzene	25.0	24.88		ug/L		100	71 - 124
Chloroethane	25.0	27.69		ug/L		111	69 - 136
cis-1,2-Dichloroethene	25.0	25.94		ug/L		104	74 - 124
Ethylbenzene	25.0	25.41		ug/L		102	77 - 123
Tetrachloroethene	25.0	24.56		ug/L		98	74 - 122
Trichloroethene	25.0	25.87		ug/L		103	74 - 123
Vinyl chloride	25.0	24.27		ug/L		97	65 - 133
Xylenes, Total	50.0	51.66		ug/L		103	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		77 - 120
4-Bromofluorobenzene (Surr)	98		73 - 120
Toluene-d8 (Surr)	105		80 - 120
Dibromofluoromethane (Surr)	109		75 - 123

QC Association Summary

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

GC/MS VOA

Analysis Batch: 364320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-120094-1	MW-07S-062317	Total/NA	Water	8260C	
480-120094-2	MW-7D-062317	Total/NA	Water	8260C	
480-120094-3	X-A-1-062317	Total/NA	Water	8260C	
480-120094-4	X-A-3-062317	Total/NA	Water	8260C	
480-120094-5	X-A-3-062317-DUP	Total/NA	Water	8260C	
480-120094-6	X-C-3-062317	Total/NA	Water	8260C	
MB 480-364320/8	Method Blank	Total/NA	Water	8260C	
LCS 480-364320/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-364320/10	Lab Control Sample Dup	Total/NA	Water	8260C	
480-120094-3 MS	X-A-1-062317-MS	Total/NA	Water	8260C	
480-120094-3 MSD	X-A-1-062317-MSD	Total/NA	Water	8260C	

Analysis Batch: 364568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-120094-8	MW-04-062317	Total/NA	Water	8260C	
480-120094-9	MW-02-062317	Total/NA	Water	8260C	
480-120094-10	MW-01-062317	Total/NA	Water	8260C	
480-120094-11	TB-001-062317	Total/NA	Water	8260C	
MB 480-364568/7	Method Blank	Total/NA	Water	8260C	
LCS 480-364568/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 364910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-120094-7	RW-02-062317	Total/NA	Water	8260C	
MB 480-364910/6	Method Blank	Total/NA	Water	8260C	
LCS 480-364910/4	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: MW-07S-062317

Lab Sample ID: 480-120094-1

Date Collected: 06/23/17 12:30

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364320	06/28/17 04:14	JAS	TAL BUF

Client Sample ID: MW-7D-062317

Lab Sample ID: 480-120094-2

Date Collected: 06/23/17 12:45

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364320	06/28/17 04:40	JAS	TAL BUF

Client Sample ID: X-A-1-062317

Lab Sample ID: 480-120094-3

Date Collected: 06/23/17 13:00

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364320	06/28/17 05:05	JAS	TAL BUF

Client Sample ID: X-A-3-062317

Lab Sample ID: 480-120094-4

Date Collected: 06/23/17 13:45

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364320	06/28/17 05:30	JAS	TAL BUF

Client Sample ID: X-A-3-062317-DUP

Lab Sample ID: 480-120094-5

Date Collected: 06/23/17 13:50

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364320	06/28/17 05:56	JAS	TAL BUF

Client Sample ID: X-C-3-062317

Lab Sample ID: 480-120094-6

Date Collected: 06/23/17 13:30

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364320	06/28/17 06:21	JAS	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Client Sample ID: RW-02-062317

Lab Sample ID: 480-120094-7

Date Collected: 06/23/17 14:30

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364910	06/30/17 13:52	LCH	TAL BUF

Client Sample ID: MW-04-062317

Lab Sample ID: 480-120094-8

Date Collected: 06/23/17 14:45

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364568	06/28/17 22:50	JAS	TAL BUF

Client Sample ID: MW-02-062317

Lab Sample ID: 480-120094-9

Date Collected: 06/23/17 15:15

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364568	06/28/17 23:16	JAS	TAL BUF

Client Sample ID: MW-01-062317

Lab Sample ID: 480-120094-10

Date Collected: 06/23/17 15:30

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364568	06/28/17 23:41	JAS	TAL BUF

Client Sample ID: TB-001-062317

Lab Sample ID: 480-120094-11

Date Collected: 06/23/17 00:00

Matrix: Water

Date Received: 06/23/17 17:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	364568	06/29/17 00:06	JAS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2-Dichloroethene, Total

Method Summary

Client: CH2M Hill, Inc.
Project/Site: Dowell - Depew Site

TestAmerica Job ID: 480-120094-1

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: CH2M Hill, Inc.

TestAmerica Job ID: 480-120094-1

Project/Site: Dowell - Depew Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-120094-1	MW-07S-062317	Water	06/23/17 12:30	06/23/17 17:00
480-120094-2	MW-7D-062317	Water	06/23/17 12:45	06/23/17 17:00
480-120094-3	X-A-1-062317	Water	06/23/17 13:00	06/23/17 17:00
480-120094-4	X-A-3-062317	Water	06/23/17 13:45	06/23/17 17:00
480-120094-5	X-A-3-062317-DUP	Water	06/23/17 13:50	06/23/17 17:00
480-120094-6	X-C-3-062317	Water	06/23/17 13:30	06/23/17 17:00
480-120094-7	RW-02-062317	Water	06/23/17 14:30	06/23/17 17:00
480-120094-8	MW-04-062317	Water	06/23/17 14:45	06/23/17 17:00
480-120094-9	MW-02-062317	Water	06/23/17 15:15	06/23/17 17:00
480-120094-10	MW-01-062317	Water	06/23/17 15:30	06/23/17 17:00
480-120094-11	TB-001-062317	Water	06/23/17 00:00	06/23/17 17:00

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact Company Name: CHAM Address: 300 Hunter Ave., Suite 305 City/State/Zip: St. Louis, MO 63124 Phone: 314-477-7284 Fax: _____ Project Name: Donnell Depew Site: Donnell Depew PO # Direct Bill 687100.17.06.02		Project Manager: Jay Burkard Tel/Fax: 314-477-7284 Analysis Turnaround Time ☐ CALENDAR DAYS ☒ WORKING DAYS TAT if different from Below _____ ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Regulatory Manager: Jay Burkard Tel/Fax: 314-477-7284 Analysis Turnaround Time ☐ CALENDAR DAYS ☒ WORKING DAYS TAT if different from Below _____ ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Site Contact: Jay Burkard Lab Contact: John Schaefer Date: 06/23/17 Carrier: Hand Deliver		COC No: _____ of _____ COCs Sampler: _____ For Lab Use Only: Walk _____ Lab _____ Job _____ 480-120094 COC Sample Specific Notes:	
Sample Identification		Sample Date Time Matrix # of Cont.		Filtered Sample (Y/N) Perform MS/MSD (Y/N)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
MW-075-062317		6/23/17 1230 G GW 3		N N 3					
MW-070-062317		6/23/17 1245 G GW 3		N N 3					
X-A-1-062317		6/23/17 1300 G GW 3		N N 3					
X-A-1-062317-MS		6/23/17 1300 G GW 3		N N 3					
X-A-1-062317-MSD		6/23/17 1300 G GW 3		N N 3					
X-A-3-062317		6/23/17 1345 G GW 3		N N 3					
X-A-3-062317-DUP		6/23/17 1350 G GW 3		N N 3					
X-5-3-062317		6/23/17 1350 G GW 3		N N 3					
RW-02-062317		6/23/17 1430 G GW 3		N N 3					
MW-04-062317		6/23/17 1445 G GW 3		N N 3					
MW-02-062317		6/23/17 1515 G GW 3		N N 3					
MW-01-062317		6/23/17 1530 G GW 3		N N 3					
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other _____ Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown		☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Special Instructions/QC Requirements & Comments: Trip Blank Sample ID - TB-001-062317									
Custody Seals Intact: ☐ Yes ☐ No Relinquished by: <i>Super Burkard</i> Relinquished by: _____ Relinquished by: _____		Company: CHAM Date/Time: 6/23/17 1200 Date/Time: _____ Date/Time: _____		Received by: <i>John Schaefer</i> Company: <i>TestAmerica</i> Date/Time: 6/23/17 1700 Date/Time: _____ Date/Time: _____		Therm ID No.: #1 Date/Time: _____ Date/Time: _____ Date/Time: _____			

Login Sample Receipt Checklist

Client: CH2M Hill, Inc.

Job Number: 480-120094-1

Login Number: 120094

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (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	CH2M
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix C

Data Quality Evaluation Report

Data Quality Evaluation for 2017 Annual Groundwater Investigation, Former Dowell Depew Facility, Depew, New York

PREPARED FOR: Schlumberger Technology Corporation
PREPARED BY: CH2M HILL Engineers, Inc.
DATE: July 2017

Introduction

The objective of this data quality evaluation (DQE) report is to assess the data quality of analytical results for groundwater collected from the Former Dowell Depew Facility in Depew, New York (Dowell Depew). CH2M HILL Engineers, Inc. (CH2M) collected samples on June 23, 2017. Guidance for this DQE report came from the site-specific *Quality Assurance Project Plan, June 2011* (URS 2011); the U.S. Environmental Protection Agency (USEPA) *Contract Laboratory National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (USEPA, 2017); and individual method requirements.

The analytical results were evaluated using the criteria of precision, accuracy, representativeness, comparability, and completeness (PARCC). This report is intended as a general data quality assessment designed to summarize data issues.

Analytical Data

This DQE report covers nine groundwater samples, one field duplicate (FD), one matrix spike (MS)/matrix spike duplicate (MSD), and one trip blank (TB). The samples were reported in one sample delivery group identified as 480-120094-1. Samples were collected and delivered to TestAmerica Laboratories, Inc., in Amherst, New York. The samples were analyzed by the method listed in Table 1.

Table 1. Analytical Parameters
2017 Confirmation Groundwater Investigation, Dowell Depew

Parameter	Method	Laboratory
Volatile Organic Compounds	SW8260C	TA

The sample delivery group was assessed by reviewing the following: (1) the chain-of-custody documentation, (2) holding-time compliance, (3) calibration criteria, (4) method blanks/field blanks, (5) laboratory control samples (LCSs)/laboratory control sample duplicates (LCSDs), (6) surrogate spike recoveries, (7) MS/MSD, (8) internal standard recoveries, (9) field duplicate recoveries, and (10) the required quality control (QC) samples at the specified frequencies.

Data flags were assigned per the National Functional Guidelines, substituting method criteria where applicable. Multiple flags are routinely applied to specific sample method/matrix/analyte combinations, but there will only be one final flag. A final flag is applied to the data and is the most conservative of the applied validation flags. The final flag also includes matrix and blank sample impacts.

The data flags are those listed in the National Functional Guidelines and are defined as follows:

- J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R = The sample result was rejected due to serious deficiencies in the ability to analyze the sample and meet the QC criteria. The presence or absence of the analyte could not be verified.
- U = The analyte was analyzed for but was not detected above the reported sample quantitation limit.
- UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Findings

The overall summaries of the data validation are contained in the following subsections.

Holding Time and Preservation

All acceptance criteria were met.

Calibration

Initial and continuing calibration analyses were performed as required by the methods, and all acceptance criteria were met, with the following exception:

- The percent difference (%D) for vinyl chloride was greater than method criteria in one continuing calibration verification (CCV) standard, indicating a possible high bias. The data were not qualified, because the associated samples did not contain reportable levels of vinyl chloride.

Method Blanks

Method blanks were analyzed at the required frequency and were free of contamination.

Laboratory Control Samples

LCS/LCSDs were analyzed as required, and all accuracy and precision criteria were met.

Matrix Spike

MS/MSD samples were analyzed as required, and all accuracy and precision criteria were met, with the following exception:

- Vinyl chloride was recovered greater than the upper control limit in the MS/MSD for sample X-A-1-062317, indicating a possible high bias. The result was qualified as estimated and flagged "J" in the parent sample.

Internal Standards

Internal standards were added to all samples, and all acceptance criteria were met.

Surrogates

Surrogates were added to all samples, and all acceptance criteria were met.

Field Duplicates

An FD was collected as required, and all precision criteria were met.

Field Blanks

A TB was collected and analyzed and was free of contamination.

Chain of Custody

Required procedures were followed and were generally free of errors.

Overall Assessment

The goal of this assessment is to demonstrate that a sufficient number of representative samples were collected, and the resulting analytical data can be used to support the decision-making process. The following summary highlights the PARCC findings for the previously defined events:

- Precision of the data was verified through the review of the field and laboratory data quality indicators that include FD, LCS/LCSD and MS/MSD relative percent differences (RPDs). Precision was acceptable.
- Accuracy of the data was verified through the review of the calibration data, LCS/LCSD, MS/MSD, internal standards and surrogate standard recoveries, as well as the evaluation of method/field blank data. Accuracy was generally acceptable; the exception was the result for vinyl chloride, which was qualified as estimated in one sample due to MS/MSD issues. All method/field blank data were free of contamination. Data users should consider the impact to any result that is qualified because it may contain a bias that could affect the decision-making process.
- Representativeness of the data was verified through the sample's collection, storage, and preservation procedures, and the verification of holding-time compliance. No issues were noted due to sample collection, storage, or preservation procedures. All data were reported from analyses within the USEPA-recommended holding time.
- Comparability of the data was verified through the use of standard USEPA analytical procedures and standard units for reporting. Results obtained are comparable to industry standards in that the collection and analytical techniques followed approved, documented procedures.
- Completeness is a measure of the number of valid measurements obtained in relation to the total number of measurements planned. Completeness is expressed as the percentage of valid or usable measurements compared to planned measurements. Valid data are defined as all data that are not rejected for project use. All data were considered valid. The completeness goal of 90 percent was met for all method and analyte combinations. The data can be used for project decisions taking into consideration the validation flags applied to the data.

Table 2. Qualified Data

2017 Confirmation Groundwater Investigation, Dowell Depew

Native ID	Method	Analyte	Units	Final Result	Validation Flag	Validation Reason
X-A-1-062317	SW8260C	Vinyl Chloride	µg/L	5.41	J	MS>UCL, SD>UCL

Note:

µg/L = microgram per liter

Validation Reasons:

MS>UCL The matrix spike sample was recovered greater than the upper control limit.

SD>UCL The matrix spike sample was recovered greater than the upper control limit.

Works Cited

URS Corporation (URS). 2011. *Site Management Plan for the Former Dowell Depew Facility 3311 Walden Avenue Depew New York*. Depew, New York. May.

U.S. Environmental Protection Agency (USEPA). 2017. *Contract Laboratory National Functional Guidelines (NFG) for Organic Superfund Methods Data Review*. January.

Appendix D

Sitewide Inspection Form

**FORMER DOWELL FACILITY – DEPEW, NEW YORK
SITE MANAGEMENT PLAN**

NYSDEC SITE NO. V-00410-9

SITE-WIDE INSPECTION FORM

Date: 06/22/2017 Inspector: Jayson Burkard
 Weather: Overcast, 70's Signature: Jayson Burkard
 Temperature: Around 70° ish Company: CH2M

Quarter: First Second Third Fourth
 (Circle One)

Item Inspected	Maintenance Needed (Y/N)	Comments
General Site Access	No	Gate & lock work. Site is secured.
Soil /Grass Cover	Yes	Site & right-of-way needs to be mowed. Completed 06/22 - 06/23/2017
Security Fencing, Gates and Locks	No	Gate & lock work. Site is secured.
Monitoring Wells	No	N/A
Site Drainage	No	No visible standing water at time of inspection.
Trees, Bushes, Other Vegetation	Yes	Site needs to be mowed completed 06/22 - 06/23/2017
Miscellaneous	No	N/A