ARCADIS Design & Consultancy for natural and built assets

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ENVIRONMENT

Subject:
2018 Annual Groundwater Monitoring Report
GE Former Parts and Repair Service Center
Tonawanda, New York 14150
NYSDEC Site ID: 915244
EPA ID: NYD067539940
Permit ID: 9-1464-00044/00001

Date:
February 26, 2019

Contact:
Doug Weeks

Phone:
518.250.7378

Email:
doug.weeks@arcadis.com

Our ref:
AP013103.4000

Dear Ms. LaClair:

On behalf of the General Electric Company (GE), Arcadis of New York, Inc. (Arcadis), has prepared the attached 2018 Annual Groundwater Monitoring Report for the GE Former Parts and Repair Service Center in Tonawanda, New York. The report provides the results of the groundwater sampling activities conducted at the site in the fall of 2018 in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Groundwater Monitoring Plan dated September 1, 2016.

If you have any questions, please contact me at 518.250.7378, or Mr. Lewis Streeter of GE at 518.388.7552.

Sincerely,

Arcadis of New York, Inc.

Doug Weeks
Project Manager

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ARCADIS Design & Consultancy for natural and built assets

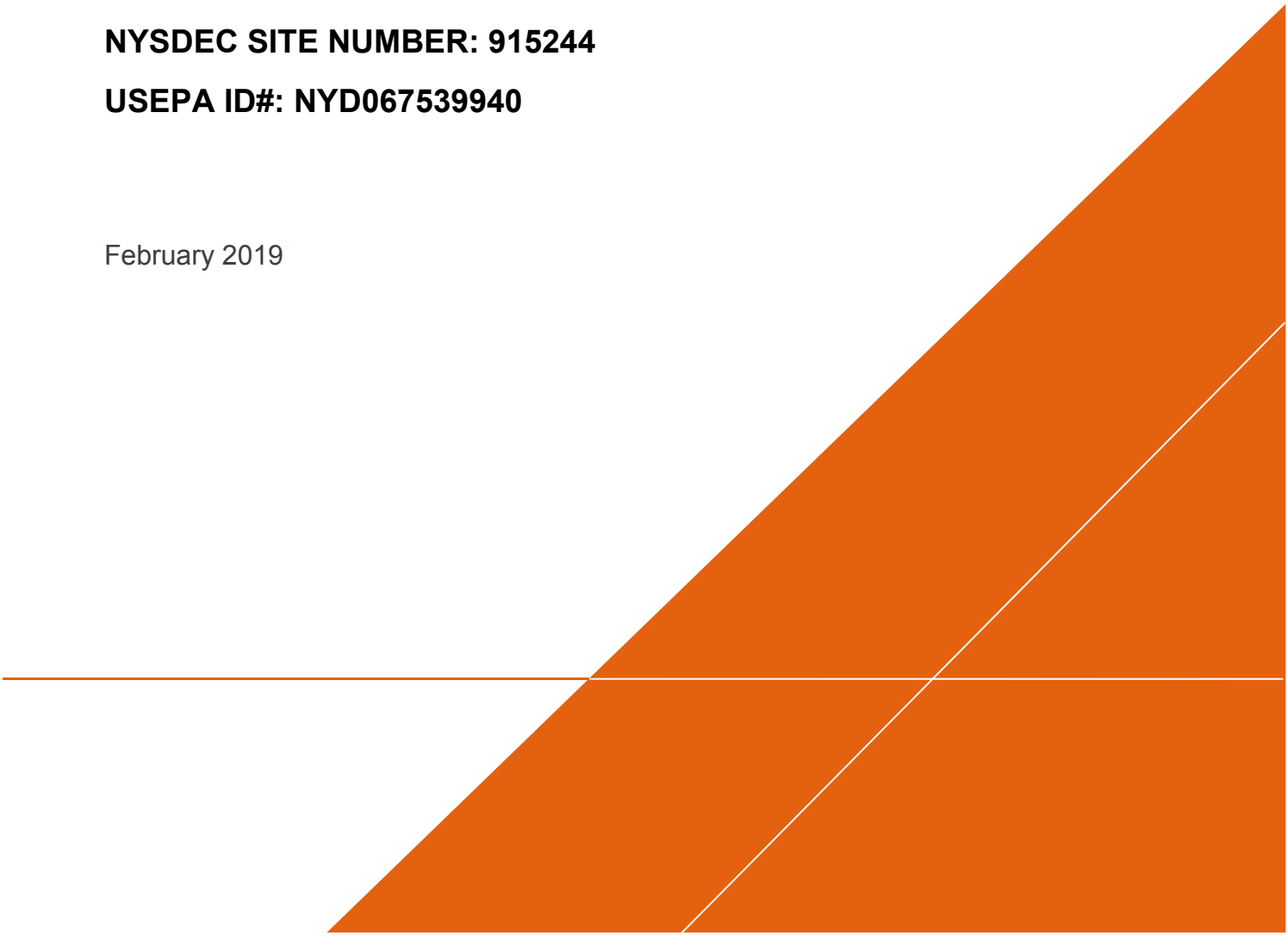
General Electric Company

2018 ANNUAL GROUNDWATER MONITORING REPORT

NYSDEC SITE NUMBER: 915244

USEPA ID#: NYD067539940

February 2019



2018 ANNUAL GROUNDWATER MONITORING REPORT

Prepared for:

General Electric Company
Tonawanda, New York

Prepared by:

Arcadis of New York, Inc.

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1 INTRODUCTION

This 2018 Annual Groundwater Monitoring Report (Report) has been prepared by Arcadis of New York, Inc. (Arcadis), on behalf of the General Electric Company (GE), to present the results of the 2018 annual groundwater sampling event conducted at GE's former Parts and Repair Service Center located at 175 Milens Road in Tonawanda, New York (hereinafter referred to as the "site"). A Site Location Map is presented as Figure 1.

1.1 Site Background and History

The site is currently in the Resource Conservation and Recovery Act (RCRA) Corrective Action Program, which is administered by the New York State Department of Environmental Conservation (NYSDEC). The site is identified as United States Environmental Protection Agency (USEPA) ID# NYD067539940 and is also known by NYS Site Number 915244. In May 1996, NYSDEC issued a Part 373 Hazardous Waste Operating Permit to GE to allow storage of hazardous wastes containing volatile organic compounds (VOCs), metals, and polychlorinated biphenyls (PCBs) at the site. There has been no treatment or disposal of hazardous or solid wastes at the site (NYSDEC 1996).

The Part 373 Permit required a RCRA Facility Assessment (RFA), RCRA Facility Investigation (RFI), and a Corrective Measures Study (CMS). A Corrective Action Only Part 373 Permit, issued July 5, 2012 (Permit ID 9-1464-00044/00001), requires GE to perform certain corrective measures at the site. Measures that have been performed to date include soil excavation, removal of an old oil/water separator, asphalt removal and replacement, cleaning and lining of portions of the sanitary sewer, removal of portions of the abandoned sanitary sewer line, removal and replacement of portions of the storm sewer lines encountered during excavation, and cleaning of the on-site storm sewers (including manholes and catch basins) as well as the floor drains, sumps, and piping. Soil excavation included the removal and off-site disposal of accessible soil with PCB concentrations that exceeded 1 milligram per kilogram (mg/kg). Excavation in this manner also addressed the limited area of VOC impacts in the subsurface soil. The corrective actions were generally completed from August to December 2015, with follow-up activities completed in the spring of 2016. The Revised Corrective Measures Completion Final Report (AECOM 2016) was approved by the NYSDEC in a letter dated June 27, 2016.

In April 2017, GE announced the planned future closure of the facility, triggering a requirement in the Part 373 Permit to perform an investigation of the previously inaccessible sub-slab soils Area of Concern (AOC). The RCRA Facility Investigation Work Plan for Sub-Slab Soils (Arcadis 2017) was approved by NYSDEC in a letter dated December 5, 2017. GE performed investigation of the sub-slab soils AOC in two stages completed in February/March and October/November of 2018. The results of these investigations are detailed in a revised RFI report submitted to the NYSDEC on January 23, 2019 (Arcadis 2019a). GE also performed additional soil investigation in the Transportation Corridor. Results from this investigation were summarized in a letter to the NYSDEC dated January 10, 2019 (Arcadis 2019b).

1.2 Groundwater Monitoring Program Objectives

The overall objective of the groundwater monitoring program is to verify that groundwater underlying the site continues to be unimpacted by historical site activities. The Groundwater Monitoring Plan (GMP, Arcadis

2016), which was approved by NYSDEC on October 5, 2016, describes the methods for conducting, evaluating and reporting the results of groundwater monitoring. The GMP identified three rounds of semi-annual groundwater sampling (completed in the fall of 2016 and in the spring and fall of 2017), followed by three additional years of annual groundwater sampling from 2018 through 2020.

2 SITE DESCRIPTION

2.1 Site Location and Description

The site is located on an approximately 5.8-acre parcel at 175 Milens Road in the Town of Tonawanda, Erie County, New York. The site consists of a 69,000-square-foot, slab-on-grade building secured by a gated chain link fence. A rail spur extends from the northeast corner of the building toward Military Road east of the site. The site is bounded to the north by Interstate Route 290, which is owned by the New York State Department of Transportation (NYSDOT), and on the east, west and south by commercial/industrial properties. The site layout and boundaries are shown on Figure 2.

2.2 Historical Site Operations

The site was developed by GE in 1968 and 1969 for use as a service shop to repair industrial equipment such as electric motors, transformers, turbines, pumps, and compressors. The original construction at the site included the northern portion of the existing building. An addition to the south end of the building was constructed in 1978. GE generated hazardous wastes during routine operations at the site. Depending on their nature, wastes were stored in either the outdoor RCRA Container Storage Area located on the east side of the building, or the Commercial PCB Storage Area, which was inside the southeast corner of the building (Figure 3). These storage areas are inactive and have been closed. In April 2017, GE announced the planned future closure of the facility and has since ceased all operations at the site.

2.3 Geology and Hydrogeology

The Site is relatively flat at an elevation of approximately 610 to 613 feet relative to the North American Vertical Datum 1988 (NAVD88). The soils underlying the site consist of very dense glaciolacustrine sediments, which are predominantly clays and silts. These sediments are approximately 60 to 70 feet thick. Water level gauging data collected from the site wells indicates that groundwater is present at the site between 1.0 and 10 feet bgs. Based on the available data, shallow groundwater at the site appears to flow in a west-southwest direction and regional groundwater flow in the vicinity of the site is expected to be north-northwest toward Two Mile Creek and the Niagara River.

3 GROUNDWATER SAMPLING AND ANALYSIS

The following subsections detail the groundwater sampling activities completed at the site in November 2018.

3.1 Groundwater Elevation Monitoring

The 2018 annual groundwater monitoring event was conducted on November 28 and 29, 2018. During this event, groundwater was encountered at the site between 1.7 feet bgs (MW-8) and 8.7 feet bgs (MW-7). The measured groundwater elevations are provided in Table 2 and are also depicted on Figure 3.

3.2 Groundwater Sample Collection and Analysis

For the 2018 sampling event, groundwater samples were collected on November 28 and 29, 2018 from six monitoring wells (MW-2R, MW-4, MW-5R, MW-6, MW-7 and MW-8) and submitted to TestAmerica Laboratories, Inc. (TestAmerica) located in Amherst, New York. Samples were analyzed for VOCs via USEPA Method 8260C and for PCBs via USEPA Method 8082A.

Groundwater samples were collected with a peristaltic pump using low-flow sampling techniques. Field parameters (i.e., potential hydrogen [pH], temperature, specific conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential) were recorded during purging using a multi-parameter meter with a flow-through cell. The field parameters, along with pumping rates and depth to water, were collected at approximate five-minute intervals and are depicted on the groundwater sampling logs included as **Appendix A**. Well purging was considered complete when the well went dry, or when all of the field indicator parameters had stabilized and were within the specified limits. Table 3 presents the field parameter values at the time of sampling.

Groundwater samples were collected from the pump discharge and placed in pre-cleaned sample jars, which were labeled with the sample identification, time, date, type of analysis to be performed, and the sampler's initials. Quality Assurance/Quality Control (QA/QC) samples were also collected and included a blind Field Duplicate, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair, and a trip blank. Groundwater monitoring equipment was decontaminated and calibrated per the requirements outlined in the GMP prior to use each day and between each well location.

3.3 Data Validation and Reporting

Groundwater data was validated per the USEPA Region 2 Standard Operating Procedures (SOPs) applicable to the analytical method(s) being reviewed. The USEPA SOPs were modified to conform to the specific requirements of the NYSDEC Analytical Services Protocol holding times and MS blank requirements (NYSDEC 2005). Validation consisted of target and non-target compounds with corresponding method blank data, spike and surrogate recoveries, sample data, and a final note of validation decision or qualification, along with any pertinent footnote references. Qualifiers were applied to the data as appropriate. The data review also includes an assessment of sensitivity (i.e., are reporting limits appropriate to determine whether contaminants are present at or above action levels or other applicable threshold values). The Data Usability

Summary Report (DUSRs) and laboratory analytical data report for the 2018 sampling event are presented in **Appendix B** and **Appendix C**, respectively.

As discussed in **Appendix B**, all of the 2018 groundwater quality data is considered to be useable. The groundwater data have been compiled in the EQuIS database format to fulfill the requirement for submittal of the data to NYSDEC in an approved Electronic Data Deliverable (EDD) format. This information will be submitted digitally to NYSDEC.

4 ASSESSMENT OF GROUNDWATER QUALITY

For the purpose of assessing overall groundwater conditions at the site, the PCB and VOC analytical results from the 2018 groundwater sampling event were screened against the applicable NYSDEC Technical & Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (NYSDEC 2004). In addition, the fall 2018 results were compared to prior data from fall 2016 and 2017 to evaluate variations and/or potential trends in constituent concentrations at the site. The following sections present the results of the overall assessment of groundwater quality.

4.1 Fall 2018 Analytical Summary

Carbon disulfide was detected in one of the six wells (MW-5R) at a concentration of 0.24 µg/L, which is well below the NYSDEC TOGS guidance value of 60 micrograms per liter (µg/L). No other VOC compounds or PCBs were detected in any of the wells sampled during the 2018 monitoring event.

4.2 Comparison of 2018 Data to 2017 and 2016 Data

Table 4 summarizes the analytical results from the 2016, 2017 and 2018 sampling events. A review of the data indicates only two VOC detections during the 2016 sampling event, bromodichloromethane and chloroform. These compounds were detected at only one well location, MW-2R, with estimated concentrations of 0.50 µg/L and 1.2 µg/L, respectively; these detected concentrations are well below the TOGS guidance values of 50 µg/L and 7 µg/L for these compounds. No VOCs or PCBs were detected in any of the remaining wells during the 2016 sampling event. Additionally, no VOCs or PCBs were detected in any of the site wells in the spring and fall 2017 sampling events. As discussed above, carbon disulfide was the only VOC detected during the fall 2018 sampling event and was detected at a concentration well below the TOGS guidance value. No PCBs were detected during the 2018 sampling event. Based on these results, the groundwater at the site remains unimpacted.

5 CONCLUSIONS AND RECOMMENDATIONS

The stated purpose of the groundwater sampling program for the former Parts and Repair Service Center is to verify that groundwater underlying the site continues to remain unimpacted by historical site activities. In accordance with the NYSDEC-approved GMP, groundwater sampling has been performed semi-annually for three consecutive events --- in the fall of 2016, and in the spring and fall of 2017. Additionally, one annual groundwater sampling event was completed at the site in the fall of 2018, for a total of four rounds of groundwater sampling. While the NYSDEC-approved GMP identified that groundwater sampling would be performed annually for two additional years (i.e., in 2019 and 2020), the four rounds of groundwater data collected at the site to date have more than adequately characterized groundwater conditions and confirmed that the groundwater underlying the site has not been impacted by historical site activities.

As noted previously, GE ceased operations at the site in 2017 and has since removed all equipment and performed preliminary interior cleaning of the facility. GE has also notified NYSDEC of its intention to prepare the property for future sale, which is anticipated to include cleaning of the building superstructure and removal and off-site disposal of the concrete floor slab, which would eliminate any residual contamination and potential future impacts to groundwater. In consideration of this information, GE believes the additional two rounds of annual groundwater sampling, as outlined in the GMP, are unnecessary, and proposes to forego any further groundwater sampling at the site.

6 REFERENCES

AECOM. 2016. Corrective Measure Completion Final Report, GE Parts and Repair Service Center, Tonawanda, New York. June.

Arcadis. 2016. Groundwater Monitoring Plan, GE Parts and Repair Service Center, Tonawanda, New York. September.

Arcadis. 2017. RCRA Facility Investigation Work Plan for Sub-Slab Soils, GE Parts and Repair Service Center, Tonawanda, New York.

Arcadis. 2019a. RCRA Facility Investigation Report for Sub-Slab Soils Area of Concern, Former GE Parts and Repair Service Center, Tonawanda, New York. January.

Arcadis. 2019b. Summary of Transportation Corridor Sampling Results, Former GE Parts and Repair Service Center, Tonawanda, New York. January.

NYSDEC. 1996. Part 373 Hazardous Waste Operating Permit, General Electric International, Inc., Facility DEC ID 9-1464-00044. May.

NYSDEC. 2004. Addendum to 1998 Technical & Operational Guidance Series (TOGS), 1.1.1 Ambient Water Quality Standards and Guidance Values. June.

NYSDEC. 2005. Analytical Services Protocol. July.

TABLES

Table 1
Monitoring Well Construction Summary
2018 Annual Groundwater Monitoring Report
General Electric Former Parts and Repair Service Center
Tonawanda, New York

Monitoring Well Identification	Protective Casing	Well Diameter (inches)	Survey Coordinates		Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft BGS)	Top of Screen Elevation (ft AMSL)	Screen Length (ft)	Total Well Depth (ft BGS)	Depth to Bottom of Screen (ft BGS)	Bottom of Screen Elevation (ft AMSL)
			Northing	Easting								
MW-2R	8" Flush	2.00	1090751.01	1066816.66	610.99	610.49	5	605.49	5	10	10	600.49
MW-4	8" Flush	2.00	1090609.79	1066571.40	610.95	610.56	6	604.56	10	16	16	594.56
MW-5R	8" Flush	2.00	1090704.39	1066801.70	611.20	610.84	15	595.84	15	30	30	580.84
MW-6	4" Stand-pipe	2.00	1090964.18	1066487.03	611.92	614.79	15	599.79	15	30	30	584.79
MW-7	8" Flush	2.00	1090551.10	1066498.60	612.42	612.08	15	597.08	15	30	30	582.08
MW-8	8" Flush	2.00	1090502.08	1066715.65	611.46	611.04	15	596.04	15	30	30	581.04

Notes:
1. ft AMSL - Feet above mean sea level.
2. ft BGS - Feet below ground surface.
3. The monitoring wells were surveyed for vertical elevation of the top of the inner and outer casings to an accuracy of approximately 0.01-foot relative to the North Atlantic Vertical Datum 1988.

Table 2
2018 Groundwater Elevation Data
2018 Annual Groundwater Monitoring Report
General Electric Former Parts and Repair Service Center
Tonawanda, New York

			Fall 2018[4]		
Well Number	**Ground Surface Elevation (Feet AMSL)**	**Measuring Point Elevation (Feet AMSL)**	**Depth to Water (Feet BMP)**	**Calculated Depth to Water (Feet BGS)**	**Groundwater Elevation (Feet AMSL)**
MW-2R	610.99	610.49	2.10	2.60	608.39
MW-4	610.95	610.56	7.42	7.81	603.14
MW-5R	611.20	610.84	3.17	3.53	607.67
MW-6	611.92	614.79	5.20	2.33	609.59
MW-7	612.42	612.08	8.33	8.67	603.75
MW-8	611.46	611.04	1.24	1.66	609.80

Notes:
1. AMSL - Above Mean Sea Level.
2. BMP - Below Measuring Point.
3. BGS - Below Ground Surface.
4. The 2018 groundwater elevations were monitored on 11/28/2018 and 11/29/2018.

Table 3
2018 Field Parameter Measurements
2018 Annual Groundwater Monitoring Report
General Electric Former Parts and Repair Service Center
Tonawanda, New York

Well ID	Temperature (Degrees Celsius)	pH (Standard Units)	Specific Conductivity (mS/cm^2)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)
MW-2R	9.20	7.18	0.006	13.50	7.29	60.1
MW-4	10.00	7.90	4.700	4.97	5.48	57.7
MW-5R	13.50	7.32	0.005	4.11	5.20	15.2
MW-6	9.90	7.88	4.700	3.37	4.74	-6.6
MW-7	11.40	7.68	4.700	3.89	3.89	60.9
MW-8	13.30	7.82	6.400	5.38	4.87	44.1

Notes:

1. The value presented is the last set of parameters collected prior to sampling or well going dry.
2. mS/cm2- Millisiemen per centimeter squared
3. NTU- Nephelometric Turbidity Unit
4. mg/L- Milligrams per Liter
5. mV- Millivolts

Table 4
Groundwater Analytical Results- 2016 through 2018
2018 Annual Groundwater Monitoring Report
General Electric Former Parts and Repair Service Center
Tonawanda, New York

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Location ID: Date Collected: Sample Name:	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	Units	MW-2R 11/23/16 MW-2R 11232016	MW-2R 05/15/17 MW-2R 20170515	MW-2R 11/20/17 MW-2R 20171120	MW-2R 11/28/18 MW-2R 20181128	MW-4 11/22/16 MW-4 11222016	MW-4 05/15/17 MW-4 20170515	MW-4 11/21/17 MW-4 20171121	MW-4 11/29/18 MW-4 20181128
PCBs										
Aroclor 1016	0.09	ug/L	ND(0.61)	ND(0.50) [ND(0.5)]	ND(0.50)	ND(0.50)	ND(0.48) [ND(0.48)]	ND(0.50)	ND(0.50)	ND(0.50) [ND(0.5)]
Aroclor 1221	0.09	ug/L	ND(0.61)	ND(0.50) [ND(0.5)]	ND(0.50)	ND(0.50)	ND(0.48) [ND(0.48)]	ND(0.50)	ND(0.50)	ND(0.50) [ND(0.5)]
Aroclor 1232	0.09	ug/L	ND(0.61)	ND(0.50) [ND(0.5)]	ND(0.50)	ND(0.50)	ND(0.48) [ND(0.48)]	ND(0.50)	ND(0.50)	ND(0.50) [ND(0.5)]
Aroclor 1242	0.09	ug/L	ND(0.61)	ND(0.50) [ND(0.5)]	ND(0.50)	ND(0.50)	ND(0.48) [ND(0.48)]	ND(0.50)	ND(0.50)	ND(0.50) [ND(0.5)]
Aroclor 1248	0.09	ug/L	ND(0.61)	ND(0.50) [ND(0.5)]	ND(0.50)	ND(0.50)	ND(0.48) [ND(0.48)]	ND(0.50)	ND(0.50)	ND(0.50) [ND(0.5)]
Aroclor 1254	0.09	ug/L	ND(0.61)	ND(0.50) [ND(0.5)]	ND(0.50)	ND(0.50)	ND(0.48) [ND(0.48)]	ND(0.50)	ND(0.50)	ND(0.50) [ND(0.5)]
Aroclor 1260	0.09	ug/L	ND(0.61)	ND(0.50) [ND(0.5)]	ND(0.50)	ND(0.50)	ND(0.48) [ND(0.48)]	ND(0.50)	ND(0.50)	ND(0.50) [ND(0.5)]
Total PCBs	0.09	ug/L	ND(0.61)	ND(0.5) [ND(0.5)]	ND(0.5)	ND(0.5)	ND(0.48) [ND(0.48)]	ND(0.5)	ND(0.5)	ND(0.5) [ND(0.5)]
Volatile Organics										
1,1,1-Trichloroethane	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,1,2,2-Tetrachloroethane	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,1,2-Trichloroethane	1	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,1-Dichloroethane	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,1-Dichloroethene	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,2,4-Trichlorobenzene	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,2-Dibromo-3-chloropropane	0.04	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,2-Dibromoethane	0.0006	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,2-Dichlorobenzene	3	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,2-Dichloroethane	0.6	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,2-Dichloropropane	1	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,3-Dichlorobenzene	3	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
1,4-Dichlorobenzene	3	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
2-Butanone (MEK)	50	ug/L	ND(10)	ND(10) [ND(10)]	ND(10)	ND(10)	ND(10) [ND(10)]	ND(10)	ND(10)	ND(10) [ND(10)]
4-Methyl-2-Pentanone	- -	ug/L	ND(5.0)	ND(5.0) [ND(5)]	ND(5.0)	ND(5.0)	ND(5.0) [ND(5)]	ND(5.0)	ND(5.0)	ND(5.0) [ND(5)]
Acetone	50	ug/L	ND(10)	ND(10) [ND(10)]	ND(10)	ND(10)	ND(10) [ND(10)]	ND(10)	ND(10)	ND(10) [ND(10)]
Benzene	1	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Bromodichloromethane	50	ug/L	**0.50 J**	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Bromoform	50	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Bromomethane	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Carbon Disulfide	60	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Carbon Tetrachloride	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
CFC-11	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
CFC-12	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Chlorobenzene	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Chlorodibromomethane	50	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Chloroethane	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Chloroform	7	ug/L	**1.2**	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Chloromethane	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
cis-1,2-Dichloroethene	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
cis-1,3-Dichloropropene	0.4	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Cyclohexane	- -	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Dichloromethane	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Ethylbenzene	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Isopropylbenzene	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Methyl Acetate	- -	ug/L	ND(2.5)	ND(2.5) [ND(2.5)]	ND(2.5)	ND(2.5)	ND(2.5) [ND(2.5)]	ND(2.5)	ND(2.5)	ND(2.5) [ND(2.5)]
Methyl N-Butyl Ketone (2-Hexanone)	50	ug/L	ND(5.0)	ND(5.0) [ND(5)]	ND(5.0)	ND(5.0)	ND(5.0) [ND(5)]	ND(5.0)	ND(5.0)	ND(5.0) [ND(5)]
Methylcyclohexane	- -	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Methyl-tert-butylether	10	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Styrene (Monomer)	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Tetrachloroethene	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Toluene	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Total Xylenes	5	ug/L	ND(2.0)	ND(2.0) [ND(2)]	ND(2.0)	ND(2.0)	ND(2.0) [ND(2)]	ND(2.0)	ND(2.0)	ND(2.0) [ND(2)]
trans-1,2-Dichloroethene	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
trans-1,3-Dichloropropene	0.4	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Trichloroethene	5	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]
Vinyl chloride	2	ug/L	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]

Table 4
Groundwater Analytical Results- 2016 through 2018
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General Electric Former Parts and Repair Service Center
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ARCADIS Design & Consultancy for natural and built assets

Location ID: Date Collected: Sample Name:	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	Units	MW-5R 11/22/16 MW-5R 11222016	MW-5R 05/16/17 MW-5R 20170516	MW-5R 11/20/17 MW-5R 20171120	MW-5R 11/28/18 MW-5R 20181128	MW-6 11/22/16 MW-6 11222016	MW-6 05/17/17 MW-6 20170517	MW-6 11/21/17 MW-6 20171121	MW-6 11/29/18 MW-6 20181129
PCBs										
Aroclor 1016	0.09	ug/L	ND(0.47)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)
Aroclor 1221	0.09	ug/L	ND(0.47)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)
Aroclor 1232	0.09	ug/L	ND(0.47)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)
Aroclor 1242	0.09	ug/L	ND(0.47)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)
Aroclor 1248	0.09	ug/L	ND(0.47)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)
Aroclor 1254	0.09	ug/L	ND(0.47)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)
Aroclor 1260	0.09	ug/L	ND(0.47)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)
Total PCBs	0.09	ug/L	ND(0.47)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.49)	ND(0.5)	ND(0.5)	ND(0.5)
Volatile Organics										
1,1,1-Trichloroethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	1	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromo-3-chloropropane	0.04	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane	0.0006	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	3	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	0.6	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	1	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	3	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	3	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (MEK)	50	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-Methyl-2-Pentanone	- -	ug/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Acetone	50	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10 B)	ND(10)	ND(10)
Benzene	1	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromodichloromethane	50	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	50	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon Disulfide	60	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	**0.24 J**	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon Tetrachloride	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
CFC-11	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
CFC-12	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorodibromomethane	50	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform	7	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloromethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	0.4	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	- -	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichloromethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Isopropylbenzene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Acetate	- -	ug/L	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)
Methyl N-Butyl Ketone (2-Hexanone)	50	ug/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylcyclohexane	- -	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl-tert-butylether	10	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Styrene (Monomer)	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Total Xylenes	5	ug/L	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
trans-1,2-Dichloroethene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	0.4	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	2	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

Table 4
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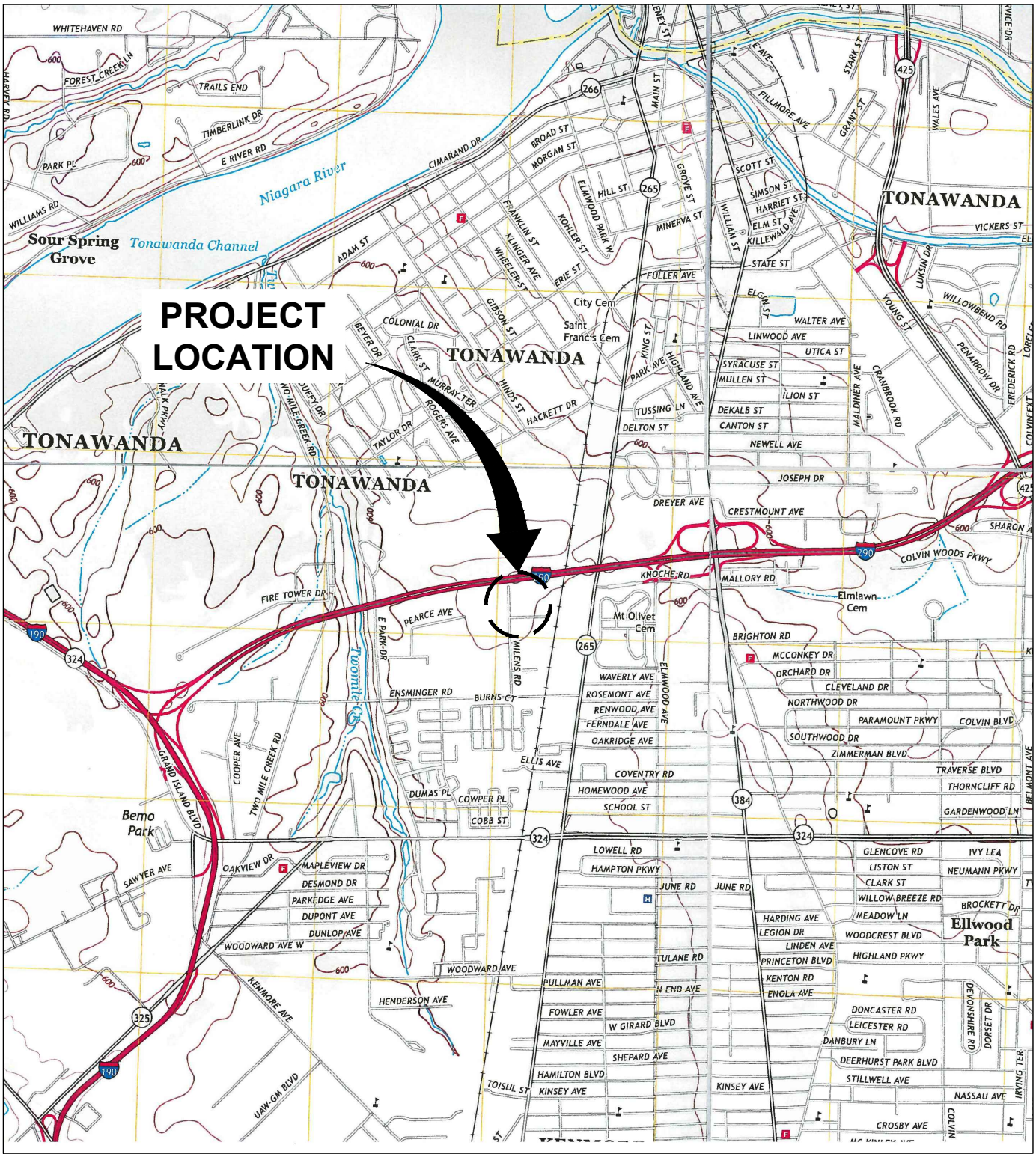
Location ID: Date Collected: Sample Name:	NYSDEC TOGS 1.1.1 (GA GROUNDWATER)	Units	MW-7 11/23/16 MW-7 11232016	MW-7 05/16/17 MW-7 20170516	MW-7 11/20/17 MW-7 20171120	MW-7 11/29/18 MW-7 20181129	MW-8 11/23/16 MW-8 11232016	MW-8 05/16/17 MW-8 20170516	MW-8 11/20/17 MW-8 20171120	MW-8 11/29/18 MW-8 20181129
PCBs										
Aroclor 1016	0.09	ug/L	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.48)	ND(0.50)	ND(0.50) [ND(0.5)]	ND(0.50)
Aroclor 1221	0.09	ug/L	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.48)	ND(0.50)	ND(0.50) [ND(0.5)]	ND(0.50)
Aroclor 1232	0.09	ug/L	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.48)	ND(0.50)	ND(0.50) [ND(0.5)]	ND(0.50)
Aroclor 1242	0.09	ug/L	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.48)	ND(0.50)	ND(0.50) [ND(0.5)]	ND(0.50)
Aroclor 1248	0.09	ug/L	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.48)	ND(0.50)	ND(0.50) [ND(0.5)]	ND(0.50)
Aroclor 1254	0.09	ug/L	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.48)	ND(0.50)	ND(0.50) [ND(0.5)]	ND(0.50)
Aroclor 1260	0.09	ug/L	ND(0.49)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.48)	ND(0.50)	ND(0.50) [ND(0.5)]	ND(0.50)
Total PCBs	0.09	ug/L	ND(0.49)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.48)	ND(0.5)	ND(0.5) [ND(0.5)]	ND(0.5)
Volatile Organics										
1,1,1-Trichloroethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,1,2,2-Tetrachloroethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,1,2-Trichloroethane	1	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,1-Dichloroethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,1-Dichloroethene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,2,4-Trichlorobenzene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,2-Dibromo-3-chloropropane	0.04	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,2-Dibromoethane	0.0006	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,2-Dichlorobenzene	3	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,2-Dichloroethane	0.6	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,2-Dichloropropane	1	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,3-Dichlorobenzene	3	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
1,4-Dichlorobenzene	3	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
2-Butanone (MEK)	50	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10) [ND(10)]	ND(10)
4-Methyl-2-Pentanone	- -	ug/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0) [ND(5)]	ND(5.0)
Acetone	50	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10) [ND(10)]	ND(10)
Benzene	1	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Bromodichloromethane	50	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Bromoform	50	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Bromomethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0 J)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Carbon Disulfide	60	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Carbon Tetrachloride	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
CFC-11	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
CFC-12	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Chlorobenzene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Chlorodibromomethane	50	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Chloroethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Chloroform	7	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Chloromethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
cis-1,2-Dichloroethene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
cis-1,3-Dichloropropene	0.4	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Cyclohexane	- -	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Dichloromethane	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Ethylbenzene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Isopropylbenzene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Methyl Acetate	- -	ug/L	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5)	ND(2.5) [ND(2.5)]	ND(2.5)
Methyl N-Butyl Ketone (2-Hexanone)	50	ug/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0) [ND(5)]	ND(5.0)
Methylcyclohexane	- -	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Methyl-tert-butylether	10	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Styrene (Monomer)	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Tetrachloroethene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Toluene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Total Xylenes	5	ug/L	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0) [ND(2)]	ND(2.0)
trans-1,2-Dichloroethene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
trans-1,3-Dichloropropene	0.4	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Trichloroethene	5	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)
Vinyl chloride	2	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0) [ND(1)]	ND(1.0)

Table 4
Groundwater Analytical Results- 2016 through 2018
2018 Annual Groundwater Monitoring Report
General Electric Parts and Repair Service Center
Tonawanda, New York

Notes:
1. Samples were collected by Arcadis and analyzed by TestAmerica Laboratories, Inc. in Amherst, New York.
2. ug/L = micrograms per liter or parts per billion.
3. Field duplicate sample results are presented in brackets.
4. **Bold** indicates detected constituents.
5. TOGS = NYSDEC Technical & Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (NYSDEC 2004).

Data Qualifiers:
ND - The compound was analyzed for but not detected. The associated value in parentheses is the compound reporting limit.
J - Indicates an estimated value.
B- The compound has been found in the sample as well as its associated blank; its presence in the sample may be suspect.

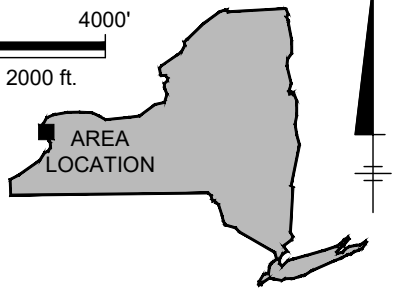
FIGURES



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., BUFFALO NORTHWEST, NY, 2013; BUFFALO NORTHEAST, NY, 2013; TONAWANDA WEST, NY 2013; TONAWANDA EAST, NY, 2013.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



GENERAL ELECTRIC COMPANY
175 MILENS ROAD, TONAWANDA, NEW YORK
2018 ANNUAL GROUNDWATER MONITORING REPORT

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: SYRACUSE, NY DIV/GROUP: EBC-IMDV LD: LPOSENAUER PM: D.WEEKS TM: D.ZUCK LYR:(Opt)ON=*;OFF=*REF*
C:\Users\lposenauer\OneDrive - ARCADIS\BIM 360 Docs\GE CORP ENV PROG\ALLIANCE PROJECT; TONAWANDA O&M\2019\AP013103.4000\01-DWG\2018GWMR_FIG 1_SITE LOC MAP.dwg LAYOUT: 1 SAVED: 1/8/2019 12:21 PM ACADVER: 21.0S (LMS TECH) PAGESETUP: C-PA-ADOBEPDF
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/8/2019 12:29 PM BY: POSENAUER, LISA
IMAGES:
NY_Buffalo NW NE.jpg

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV LD: L.POSENAUER PM: D.WEEKS TM: D.ZUCK LYR:(Opt)ON=*;OFF=*REF*
C:\Users\lposenauer\OneDrive - ARCADIS\BIM 360 Docs\GE CORP ENV PROG\ALLIANCE PROJECT; TONAWANDA O&M\2019\AP013103.4000\01-DWG\2018GWMR_FIG 2_SITE LAYOUT.dwg LAYOUT: 2 SAVED: 1/8/2019 12:21 PM ACADVER: 21.0S (LMS TECH) PAGESETUP: C-LA-ADOBEPDF
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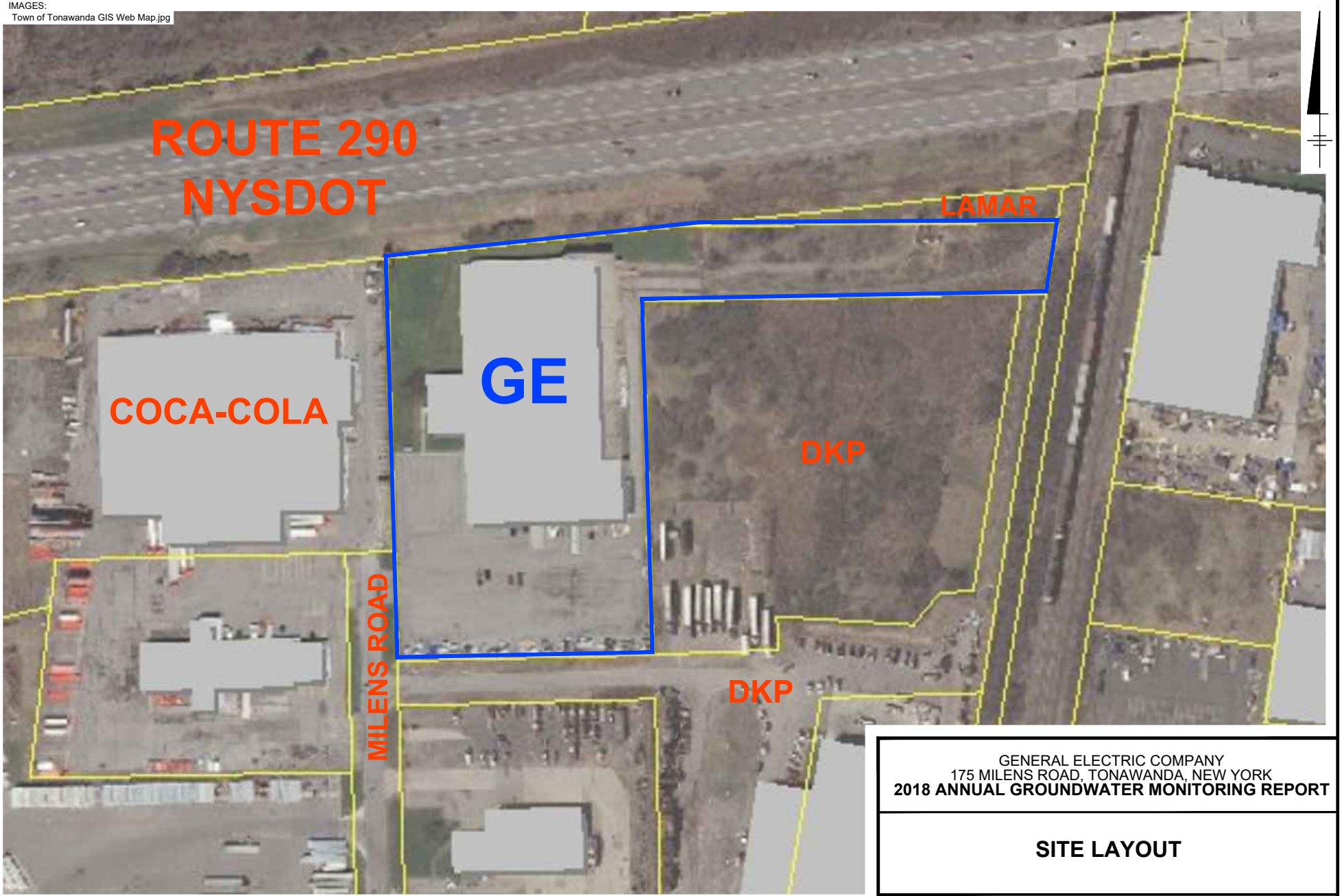
IMAGES:
Town of Tonawanda GIS Web Map.jpg



BASEMAP SOURCE:
Town of Tonawanda Public GIS Web Map
Property boundaries (shown in yellow) as downloaded.

GENERAL ELECTRIC COMPANY
175 MILENS ROAD, TONAWANDA, NEW YORK
2018 ANNUAL GROUNDWATER MONITORING REPORT

SITE LAYOUT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: SYRACUSE, NY DIV/GROUP: EBC-IM/DV LD: L.POSENAUER PM: D.WEEKS TM: D.ZUCK LYR:(0)ON=*;OFF=*REF*
C:\BIM\OneDrive - ARCADIS\BIM 360 Docs\GE CORP ENV PROG\ALLIANCE PROJECT: TONAWANDA O&M\2019\AP013103.4000\01-DWG\2018GWMR_FIG 3_MONWELL NETWORK.dwg LAYOUT: 3 SAVED: 1/8/2019 12:50 PM ACADVER: 23.0S (LMS TECH) PAGESETUP: C-LB-ADOBEPDF
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 2/12/2019 11:09 AM BY: POSENAUER, LISA
XREFS:
X-BASEMAP

E.G.H. YOUNGMANN EXPRESSWAY
(NYSDOT)

MW-6
(609.59)

GE

FORMER
RCRA CSA

MW-2R
(608.39)

MW-5R
(607.67)

MW-4
(603.14)

MW-7
(603.75)

MW-8
(609.80)

MILENS ROAD

LEGEND:

- BUILDING FOOTPRINT
- CHAIN LINK FENCE
- PROPERTY LINE
- MW-4 — MONITORING WELL
- (603.14) — GROUNDWATER ELEVATION (AMSL)

NOTES:

1. MONITORING WELL NORTHINGS AND EASTINGS ARE RELATIVE TO THE NAD 1983, WITH VERTICAL ELEVATIONS RELATIVE TO NAVD 1988.
2. THE 2018 GROUNDWATER ELEVATIONS WERE MONITORED ON NOVEMBER 28 AND NOVEMBER 29, 2018.

SOURCES:

1. "MAP OF GENERAL ELECTRIC SERVICE CENTER PROPERTY, PART OF LOT 45, TOWNSHIP 12, RANGE 8, TOWN OF TONAWANDA, ERIE COUNTY, NEW YORK" KRIEBEL ASSOCIATES, JULY 29, 1998.
2. SURVEY BY URS CORPORATION – NEW YORK, JUNE 2014.
3. SURVEY BY NUSSBAUMER & CLARK, INC.
4. 2016 SURVEY BY KHEOPS, 11/23/2016.

0 60' 120'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
175 MILENS ROAD, TONAWANDA, NEW YORK
2018 ANNUAL GROUNDWATER MONITORING REPORT

MONITORING WELL NETWORK AND GROUNDWATER ELEVATIONS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

APPENDIX A

2018 Groundwater Sampling Logs

GE Parts and Repair Service Center, Tonawanda, NY — Site

2018 GW Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Matt Kroening
Client / Job Number: GE / AP013103.4000
Weather: 28° windy / Snow

Well ID: MW-2R
Date: 11/28/18
Time In: 1300 **Time Out:** 1400

Well Information

Depth to Water:	2.10 (feet)	(from MP)
Total Depth:	9.49 (feet)	(from MP)
Length of Water Column:	(feet) 7.39	
Volume of Water in Well:	(gal) 1.20	
Intake depth for tubing:	(feet) 7.5	

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:			
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:			
Sampling Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:			

Pump Start Time: 1310
Pump Stop Time: 1340
Water-Quality Meter Type: YSI / Lamotte2020
Total Volume Removed: 1.25 (gal) Did well go dry: Yes ☐ No ☒

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1315	1320	1325	1330	1335	1340	~~1345~~		
Volume Purged (Gal)	-		.75		1	S			
Rate (mL/min)	300	140	110	110	110	a			
Depth to Water (ft.)	3.97	4.23	4.82	5.19	5.55	m			
pH	7.32	7.20	7.19	7.17	7.18	p			
Temp. (C)	9.4	9.2	9.2	9.2	9.2	l			
Conductivity (mS/cm)	0.006	0.006	0.006	0.006	0.006	e			
Dissolved Oxygen (mg/L)	7.14	7.19	7.18	7.22	7.29				
ORP (mV)	44.5	50.7	~~58.77~~	~~59.06~~	60.1				
Turbidity (NTU)	15.9	14.3	14.0	13.8	13.5				
Notes:									

Sampling Information

Analyses	#	n	Laboratory
~~VOCs-Method 8260B~~	1	3	~~Accutest Labs - MA~~
VOCs	3		Buffalo - Test America
PCBs	2		" "
Color:	Clear		
Odor:	None		
Appearance:	-		
Sample ID: MW-2R		Sample Time: 1340	
MS/MSD: Yes ☐		No ☒	
Duplicate: Yes ☐		No ☒	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:		**Matthew Kroening**	

Svstem ON/OFF:

Problems / Observations

Water in casing was full, bailed out and no water got in well
Clear, No Color, No odor

GE Parts and Repair Service Center, Tonawanda, NY — Site

2018 GW Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Matt Kroening
Client / Job Number: GE / AP013103.4000
Weather: 34° Cloudy / windy

Well ID: MW-4
Date: 11-29-18
Time In: 1030 **Time Out:** 1130

Well Information

Depth to Water:	7.42 (feet)	(from MP)
Total Depth:	15.53 (feet)	(from MP)
Length of Water Column:	(feet) 8.11	
Volume of Water in Well:	(gal) 1.32	
Intake depth for tubing:	(feet) 14.5	

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		

Pump Start Time: 1040
Pump Stop Time: 1110
Water-Quality Meter Type: YSI / Lamotte 2020
Total Volume Removed: 1.25 (gal)
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1045	1050	1055	1100	1105	1110			
Volume Purged (Gal)	-	-	.75	-	1.25	S			
Rate (mL/min)	200	110	110	110	110	a			
Depth to Water (ft.)	7.67	8.08	8.48	8.94	9.42	m			
pH	7.90	7.86	7.87	7.92	7.90	p			
Temp. (C)	9.3	9.6	9.7	9.9	10.0	l			
Conductivity (mS/cm)	5.9	5.2	5.1	4.9	4.7	e			
Dissolved Oxygen (mg/L)	6.33	5.45	5.42	5.47	5.48				
ORP (mV)	60.3	60.0	58.6	58.1	57.7				
Turbidity (NTU)	5.63	5.66	5.00	4.90	4.97				
Notes:									

Sampling Information

Analyses	#	n	Laboratory
~~VOCs-Method 8260B~~	~~1~~	~~3~~	~~Accutest Labs - MA~~
VOCs	6	3	Buffalo - Test America
PCBs	4	2	
Color: Clear			
Odor: None			
Appearance: -			
Sample ID: MW-4		Sample Time:	
MS/MSD: Yes ☐		No ☒	
Duplicate: Yes ☒		No ☐	
Duplicate ID DUP 112918		Dup. Time: 1115	
Chain of Custody Signed By:		Matthew Kroening	

System ON/OFF:

Problems / Observations

☆ - DUP Collected Here

GE Parts and Repair Service Center, Tonawanda, NY — Site

2018 GW Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel:	Matt Kroening	**Well ID:**	MW-5R
Client / Job Number:	GE / AP013103.4000	**Date:**	11/28/18
Weather:		**Time In:**	10:46 **Time Out:** 1230

Well Information

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Intake depth for tubing:	(feet)	

Well Type:	Flushmount ☐		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☐	
Well Locked:	Yes ☐		No ☐	
Measuring Point Marked:	Yes ☐		No ☐	
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☐	Monsoon ☐	Other:
Tubing/Bailer Material:	Steel ☐	Polyethylene ☐	Teflon ☐	Other:
Sampling Method:	Bailer ☐	Peristaltic ☐	Monsoon ☐	Other:

Pump Start Time:

Pump Stop Time: Water-Quality Meter Type:

Total Volume Removed: (gal) Did well go dry: Yes ☐ No ☐

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1145	1150	1155	1200	1205				
Volume Purged (Gal)			3	3.25	3				
Rate (mL/min)	200	200	200	200	a				
Depth to Water (ft.)	12.60	13.73	14.72	15.37	m				
pH	7.32	7.34	7.36	7.32	p				
Temp. (C)	13.0	13.1	13.3	13.5	l				
Conductivity (mS/cm)	0.005	0.005	0.005	0.005	e				
Dissolved Oxygen (mg/L)	~~13.22~~ 2.48	401	4.93	5.20					
ORP (mV)	10.9	13.83	12.2	15.20					
Turbidity (NTU)	6.48	4.51	3.80	4.11					
Notes:									

Sampling Information

Analyses	#	n	Laboratory
VOCs-Method 8260B	1	3	Accutest Labs - MA

Color:

Odor:

Appearance:

Sample ID: Sample Time:

MS/MSD: Yes ☐ No ☐

Duplicate: Yes ☐ No ☐

Duplicate ID Dup. Time:

Chain of Custody Signed By: **Matthew Kroening**

System ON/OFF:

Problems / Observations

See pg 1.

GE Parts and Repair Service Center, Tonawanda, NY — Site

2018 GW Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Matt Kroening
Client / Job Number: GE / AP013103.4000
Weather: 28° windy / snow

Well ID: MW-5R
Date: 11/28/18
Time In: 10:40 **Time Out:** 1230

Well Information

Depth to Water:	3.17 (feet)	(from MP)
Total Depth:	29.58 (feet)	(from MP)
Length of Water Column:	(feet) 26.41	
Volume of Water in Well:	(gal) 4.24	
Intake depth for tubing:	(feet) 27	

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		

Pump Start Time: 1035
Pump Stop Time: 1205
Total Volume Removed: 3.25 (gal)
Water-Quality Meter Type: YSI/Lamotte 2020
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1000	1105	1110	1115	1120	1125	1130	1135	1140
Volume Purged (Gal)	[illegible]			.75			1.25		2
Rate (mL/min)	110	110	110	120	120	120	200	200	200
Depth to Water (ft.)	4.92	5.03	5.18	6.21	7.13	8.00	9.38	10.15	11.42
pH	8.12	7.99	7.80	7.66	7.53	7.47	7.40	7.36	7.30
Temp. (C)	11.7	11.82	12.0	11.9	12.0	12.1	12.3	12.5	12.7
Conductivity (mS/cm)	0.005	0.005	0.006	0.006	0.006	0.006	.006	0.006	0.006
Dissolved Oxygen (mg/L)	6.01	5.83	5.58	4.27	4.38	4.15	2.51	1.84	2.10
ORP (mV)	70.8	50.60	32.8	6.0	-8.2	-4.5	3.8	4.3	[illegible] 10.9
Turbidity (NTU)	15.5	13.8	12.01	8.11	8.95	8.14	7.85	7.30	[illegible] 7.21
Notes:									

Sampling Information

Analyses	#	n	Laboratory
~~VOCs-Method 8260B~~	~~1~~	~~3~~	~~Accutest Labs - MA~~
VOCs	3		Buffalo Test America
PCBs	2		" "
Color:	Clear		
Odor:	None		
Appearance:	-		
Sample ID:	MW-5R	Sample Time:	
MS/MSD:	Yes ☐	No ☒	
Duplicate:	Yes ☐	No ☒	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:	**Matthew Kroening**		

Svstem ON/OFF:

Problems / Observations

Clear, No Color, No odor

GE Parts and Repair Service Center, Tonawanda, NY — Site

2018 GW Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Matt Kroening
Client / Job Number: GE / AP013103.4000
Weather: 34° Cloudy / Windy

Well ID: MW-6
Date: 11/29/18
Time In: 1400 **Time Out:** 1530

Well Information

Depth to Water:	5.2 (feet)	(from MP)
Total Depth:	32.33 (feet)	(from MP)
Length of Water Column:	(feet) 27.03	
Volume of Water in Well:	(gal) 4.40	
Intake depth for tubing:	(feet) 31.33	

Well Type:	Flushmount ☐		Stick-Up ☒		
Well Material:	Stainless Steel ☐		PVC ☒		
Well Locked:	Yes ☒		No ☐		
Measuring Point Marked:	Yes ☒		No ☐		
Well Diameter:	1"	(2")	Other:		

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:			
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:			
Sampling Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:			

Pump Start Time: 1410
Pump Stop Time: 1510
Total Volume Removed: 2.5 (gal)
Water-Quality Meter Type: YSI / Lamotte 2020
Did well go dry: Yes ☐ No ☒

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1415	1420	1425	1430	1435	1440	1445	1450	1455
Volume Purged (Gal)	-		.75		1.25		1.75		2
Rate (mL/min)	100	200	200	200	200	200	200	200	200
Depth to Water (ft.)	6.69	6.85	8.21	9.69	10.88	12.11	13.41	14.20	15.10
pH	7.62	7.70	7.41	7.80	7.84	7.87	7.91	7.84	7.89
Temp. (C)	8.20	10.1	9.8	9.6	9.7	9.4	9.8	9.9	9.8
Conductivity (mS/cm)	5.17	6.00	4.89	4.86	50	4.91	4.72	4.63	4.69
Dissolved Oxygen (mg/L)	5.11	7.46	8.53	7.18	6.94	5.13	4.86	4.73	4.72
ORP (mV)	1.[illegible]3	-.16	-5.4	-6.9	-8.4	-7.5	-7.1	-6.8	-6.7
Turbidity (NTU)	8.14	7.11	5.01	4.99	4.32	4.11	3.52	3.41	3.42
Notes:									

Sampling Information

Analyses	#	n	Laboratory
~~VOCs-Method 8260B~~	~~1~~	~~3~~	~~Accutest Labs - MA~~
VOCs	3	-	Buffalo TestAmerica
PCBs	2		"
Color: Clear			
Odor: None			
Appearance:			
Sample ID: MW-6	Sample Time: 1510		
MS/MSD: Yes ☐	No ☒		
Duplicate: Yes ☐	No ☒		
Duplicate ID	Dup. Time:		
Chain of Custody Signed By:	**Matthew Kroening**		

Svstem ON/OFF:

Problems / Observations

Clear, No color, No odor

GE Parts and Repair Service Center, Tonawanda, NY — **2018 GW Sampling**

Site — *Event*

GROUNDWATER SAMPLING LOG

Sampling Personnel: Matthew Kroening
Well ID: MW-6
Client / Job Number: GE / AY013103.44000
Date: 11/29/18
Weather:
Time In: 1400 **Time Out:** 1530

Parameter:	1	2	3	4	5	6	7	8	9
Time	1500	1505	1510						
Volume Purged (Gal)		2.5	5						
Rate (mL/min)	200	200	a						
Depth to Water (ft.)	15.98	16.96	m						
pH	7.90	7.88	P						
Temp. (C)	9.9	9.9							
Conductivity (mS/cm)	4.80	4.7	e						
Dissolved Oxygen (mg/L)	4.70	4.74							
ORP (mV)	-6.9	-6.6							
Turbidity (NTU)	3.40	3.37							
Notes:									

Parameter:	1	2	3	4	5	6	7	8	9
Time									
Volume Purged (Gal)									
Rate (mL/min)									
Depth to Water (ft.)									
pH									
Temp. (C)									
Conductivity (mS/cm)									
Dissolved Oxygen (mg/L)									
ORP (mV)									
Turbidity (NTU)									
Notes:									

GE Parts and Repair Service Center, Tonawanda, NY — Site

2018 GW Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Matt Kroening
Client / Job Number: GE / AP013103.4000
Weather: 34° Cloudy/Windy

Well ID: MW-7
Date: 11/29/18
Time In: 1220 **Time Out:** 1315

Well Information

Depth to Water:	8.33 (feet)	(from MP)
Total Depth:	29.58 (feet)	(from MP)
Length of Water Column:	(feet)	21.25
Volume of Water in Well:	(gal)	3.416
Intake depth for tubing:	(feet)	28.5

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1"	(2")	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		

Pump Start Time: 1225
Pump Stop Time: 1300
Total Volume Removed: 1.25 (gal)
Water-Quality Meter Type: YSI / Geotech 9035
Did well go dry: Yes ☐ No ☒

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	1230	1235	1240	1245	1250	1255	1300		
Volume Purged (Gal)	-	-	-	.75	-	1.25	S		
Rate (mL/min)	245	120	120	120	120	120	a		
Depth to Water (ft.)	8.97	9.85	10.76	11.49	12.27	13.13	m		
pH	7.97	7.82	7.77	7.73	7.71	7.68	p		
Temp. (C)	9.3	10.7	10.9	11.3	11.5	11.4	l		
Conductivity (mS/cm)	4.3	4.7	4.9	4.8	4.7	4.7	e		
Dissolved Oxygen (mg/L)	3.62	2.25	3.85	3.95	3.87	3.89			
ORP (mV)	70.0	72.1	68.0	65.9	63.1	60.9			
Turbidity (NTU)	6.41	4.04	4.27	3.98	3.90	3.89			
Notes:									

Sampling Information

Analyses	#	n	Laboratory
~~VOCs-Method 8260B~~	1	3	~~Accutest Labs - MA~~
VOCs	3		Buffalo Test America
PCBs	2		"
Color:	Clear		
Odor:	None		
Appearance:			
Sample ID:	MW-7	Sample Time:	1300
MS/MSD:	Yes ☐	No ☒	
Duplicate:	Yes ☒	No ☒	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:	Matthew Kroening		

Problems / Observations

Svstem ON/OFF:

GE Parts and Repair Service Center, Tonawanda, NY — Site

2018 GW Sampling — Event

GROUNDWATER SAMPLING LOG

Sampling Personnel: Matt Kroening
Client / Job Number: GE / AP013103.4000
Weather: 34° Cloudy / windy

Well ID: MW-8
Date: 11-29-18
Time In: 0880 **Time Out:** 0950

Well Information

Depth to Water:	1.24 (feet)	(from MP)
Total Depth:	29.78 (feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal) 28.54	
Intake depth for tubing:	(feet) 41.	

Well Type:	Flushmount ☒		Stick-Up ☐	
Well Material:	Stainless Steel ☐		PVC ☒	
Well Locked:	Yes ☒		No ☐	
Measuring Point Marked:	Yes ☒		No ☐	
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		
Tubing/Bailer Material:	Steel ☐	Polyethylene ☒	Teflon ☐	Other:		
Sampling Method:	Bailer ☐	Peristaltic ☒	Monsoon ☐	Other:		
Pump Start Time:	0825					
Pump Stop Time:	0940	Water-Quality Meter Type:	YSI/Lamotte 8030			
Total Volume Removed:	3.50 (gal)	Did well go dry:	Yes ☐	No ☒		

Conversion Factors

gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 ml = 0.1337 cubic feet

Unit Stability

pH	DO / Turb	Cond. /Temp	ORP
∀ 0.1	∀ 10%	∀ 3.0%	∀ 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
Time	0830	0835	0840	0845	0850	0855	0900	0905	0910
Volume Purged (Gal)	-			1.0				2.0	
Rate (mL/min)	250	250	250	250	250	250	250	250	250
Depth to Water (ft.)	1.56	1.89	3.54	4.55	5.87	7.17	8.55	9.34	10.26
pH	8.91	8.48	8.27	8.26	8.30	8.30	8.32	8.26	8.25
Temp. (C)	12.3	12.2	11.3	10.8	10.5	10.6	9.9	10.3	10.4
Conductivity (mS/cm)	4.5	4	3.9	3.6	3.5	3.4	3.2	3.3	3.3
Dissolved Oxygen (mg/L)	8.31	7.49	7.73	7.63	8.56	8.63	7.02	7.82	7.37
ORP (mV)	106.12	121.54	99.4	89.9	84.6	75.1	62.2	60.5	63.5
Turbidity (NTU)	14.9	11.55	11.06	9.32	9.38	9.00	11.75	7.93	9.01
Notes:									

Sampling Information

Analyses	#	n	Laboratory
~~VOCs-Method 8260B~~	~~1~~	~~3~~	~~Accutest Labs - MA~~
VOCs	9		Buffalo - Test America
PCBs	6		" "
Color:	Clear		
Odor:	None		
Appearance:			
Sample ID:	MW-8	Sample Time:	0940
MS/MSD:	Yes ☒	No ☐	
Duplicate:	Yes ☐	No ☒	
Duplicate ID		Dup. Time:	
Chain of Custody Signed By:	Matthew Kroening		

Svstem ON/OFF:

Problems / Observations

☒- MS/MSD Collected

GE Parts and Repair Service Center, Tonawanda, NY — **2018 GW Sampling**

Site — *Event*

GROUNDWATER SAMPLING LOG

Sampling Personnel: Matthew Kroening — **Well ID:** MW-8

Client / Job Number: GE / AY013103.44000 — **Date:**

Weather: — **Time In:** — **Time Out:**

Parameter:	1	2	3	4	5	6	7	8	9
Time	0915	0920	0925	0930	0935	0940			
Volume Purged (Gal)		3.0			3.5	S			
Rate (mL/min)	250	250	250	250	250	a			
Depth to Water (ft.)	11.60	13.24	13.97	15.18	16.98	m			
pH	8.20	7.94	7.90	7.86	7.82	p			
Temp. (C)	10.0	12.5	13.0	13.2	13.3	l			
Conductivity (mS/cm)	3.5	6.2	6.1	6.4	6.4	e			
Dissolved Oxygen (mg/L)	7.64	3.99	4.81	4.42	4.87				
ORP (mV)	30.1	34.4	41.3	43.9	49.1				
Turbidity (NTU)	4.27	4.23	5.40	5.31	5.38				
Notes:	See Pg. 1								

Parameter:	1	2	3	4	5	6	7	8	9
Time									
Volume Purged (Gal)									
Rate (mL/min)									
Depth to Water (ft.)									
pH									
Temp. (C)									
Conductivity (mS/cm)									
Dissolved Oxygen (mg/L)									
ORP (mV)									
Turbidity (NTU)									
Notes:									

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

306538

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: David Carroll	Site Contact: Matthew Heaney	Date: 11/29/18	COC No:
Company Name: Arcadis	Tel/Fax: (315) 439-6222	Lab Contact: M. Deyo	Carrier: —	1 of 1 COCs
Address: 50 Fenton Plaza	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716 425 7056	TAT if different from Below Standard			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: GE Groundwater Analysis	☐ 1 week			
Site: GE Tonawanda Parts and Repair Service Center	☐ 2 days			Job / SDG No.:
PO # APO13103.0004	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8082A - PCBs	8260C - TCL VOAs	Sample Specific Notes:
MW-5R	11/28/18	1205	G	GW	5	N	N	X	X	
MW-2R	11/28/18	1340	G	GW	5	N	N	X	X	
MW-7	11/29/18	1300	G	GW	5	N	N	X	X	
MW-8	11/29/18	0940	G	GW	5	N	N	X	X	
MW-4	11/29/18	1110	G	GW	5	N	N	X	X	
MW-6	11/29/18	1415	G	GW	5	N	N	X	X	
MW-8 (MS/MSD)	11/29/18	0950	G	GW	10	N	N	X	X	
DUP-112918	11/29/18	—	G	GW	5	N	N	X	X	
Trip Blank	11/29/18	—	—		4	N	N	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 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

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

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Arcadis	[redacted]/18	[signature]	GBB	11/30/18 0810
Relinquished by:	Company:	Date/Time: 11/30/18 0810	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

APPENDIX B

Data Usability Summary Reports

ARCADIS Design & Consultancy for natural and built assets

General Electric Company

Parts and Repair Service Center

175 Milens Road

Tonawanda, New York

NYSDEC ID 915244; EPA ID NYD067539940

DATA USABILITY SUMMARY REPORT

Volatile Organic Compound (VOC) and Polychlorinated Biphenyl (PCB) Analyses

SDG #480-146076-1

Analyses Performed By:
TestAmerica Laboratories, Inc.
Amherst, New York

Report #31410R
Review Level: Tier III
Project: AP013103.4000

SUMMARY

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) #480-146076-1 for samples collected in association with The General Electric Company (GE) former Parts and Repair Service Center in Tonawanda, NY (NYSDEC ID 915244; EPA ID NYD067539940). The review was conducted as a Tier III evaluation and included review of laboratory data package completeness. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					VOC	PCB	MISC
MW-5R	480-146076-1	Water	11/29/2018		X	X	
MW-2R	480-146076-2	Water	11/28/2018		X	X	
MW-7	480-146076-3	Water	11/29/2018		X	X	
MW-4	480-146076-4	Water	11/29/2018		X	X	
MW-6	480-146076-5	Water	11/29/2018		X	X	
MW-8	480-146076-6	Water	11/29/2018		X	X	
DUP-112918	480-146076-7	Water	11/29/2018	MW-4	X	X	
Trip Blank	480-146076-8	Water	11/29/2018		X		

Notes:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed for VOCs and PCBs using sample MW-8.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of quality assurance (QA) or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 8260C and 8082A. Data were reviewed in accordance with the USEPA Region II validation guidelines *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B* (October 2006) and *Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A* (October 2006); the USEPA *National Functional Guidelines for Superfund Organic Methods Data Review* (September 2016); and the *Groundwater Monitoring Plan, GE Parts and Repair Service Center* (September 1, 2016).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being compared may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon. It is also important to note that while strict QC serves to increase confidence in data, any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260C	Water	14 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were detected in the associated QA blanks; however, the associated sample results were greater than the BAL and/or were non-detect. No other qualification of the sample results was required.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample Locations	Initial/Continuing	Compound	Criteria
Trip Blank	CCV %D	Acetone	-38.7%
MW-5R MW-2R MW-7 MW-4 MW-6 MW-8 DUP-112918	CCV %D	Cyclohexane	-24.7%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	No Action
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J

Note:

[1] RRF of 0.01 only applies to compounds which are typically poor responding compounds (i.e., ketones, 1,4-dioxane, etc.)

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the gas chromatography-mass spectrometry (GC/MS) sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
MW-8	1,1,2,2-Tetrachloroethane	>UL	>UL
	4-Methyl-2-pentanone (MIBK)	>UL	>UL
	Isopropylbenzene	AC	>UL

Note:

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. For water matrices, a control limit of 35% is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-4/ DUP-112918	All compounds	U	U	AC

Note:

AC Acceptable

No VOCs were detected in samples MW-8 and DUP-112918; hence, RPD was not calculated and the results are considered to be in agreement.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks	X				X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	

VOCs: SW-846 8260C	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

POLYCHLORINATED BIPHENYLS ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8082A	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6°C

Note:
The holding time above is a recommendation. PCBs are very stable in a variety of matrices, and holding times, under the conditions listed above, may be as long as one year per SW-846 8082A (February 2007).

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

QA blanks (i.e., method and rinse blanks) are prepared to identify contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A BAL of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit. The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. System Performance

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

A maximum RSD of 20% is allowed or a correlation coefficient greater than 0.99. Multiple-point calibrations were performed for Aroclor 1016 and 1260 only. Single-point calibrations were performed for the remaining Aroclors.

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a %D less than the control limit (20%).

All calibration criteria were within the control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. PCB analysis requires that the two PCB surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Matrix Spike/Matrix Spike Duplicate Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited recoveries and RPD within control limits.

7. Laboratory Control Sample Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. For water matrices, a control limit of 35% is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-4/ DUP-112918	All compounds	U	U	AC

Note:
AC Acceptable

No PCBs were detected in samples MW-4 and DUP-112918; hence, RPD was not calculated and the results are considered to be in agreement.

9. Compound Identification

The retention times of all quantitated peaks must fall within the calculated retention time windows for both the primary and confirmation columns. When dual column analysis is performed the relative percent difference of detected sample results must be less than 40%.

There were no PCBs detected in the samples, hence the dual column analysis is not applicable.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR PCBs

PCBs: SW-846 8082A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY (GC/ECD)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Column (RPD) (If dual column is performed-not confirmation purposes only)		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
Initial calibration %RSDs		X		X	
Continuing calibration %Ds		X		X	
System performance and column resolution		X		X	
Compound identification and quantitation					
A. Quantitation Reports		X		X	
B. RT of sample compounds within the established RT windows		X		X	
C. Pattern identification		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

SAMPLE COMPLIANCE REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]		Noncompliance
					VOC	PCB	
480-146076-1	11/29/2018	SW846	MW-5R	Water	No	Yes	VOC – CCV %D
	11/28/2018	SW846	MW-2R	Water	No	Yes	VOC – CCV %D
	11/29/2018	SW846	MW-7	Water	No	Yes	VOC – CCV %D
	11/29/2018	SW846	MW-4	Water	No	Yes	VOC – CCV %D
	11/29/2018	SW846	MW-6	Water	No	Yes	VOC – CCV %D
	11/29/2018	SW846	MW-8	Water	No	Yes	VOC – CCV %D
	11/29/2018	SW846	DUP-112918	Water	No	Yes	VOC – CCV %D
	11/29/2018	SW846	Trip Blank	Water	No	--	VOC – CCV %D

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE:

DATE: January 7, 2019

PEER REVIEW: Dennis Capria

DATE: January 17, 2019

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA SHEETS

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record 306538

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: David Cornell	Site Contact: Matthew Keeney	Date: 11/29/18	COC No:
Company Name: Arcadis	Tel/Fax: (315) 439-6222	Lab Contact: M. Deyo	Carrier: –	1 of 1 COCs
Address: 50 Fountain Plaza	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone: 716-625-7056	TAT if different from Below Standard			Walk-in Client:
Fax: –	☐ 2 weeks			Lab Sampling:
Project Name: GE Groundwater Analysis	☐ 1 week			
Site: GE Tonawanda Parts and Repair Service Center	☐ 2 days			Job / SDG No.:
P O # AP013103.0004	☐ 1 day			17567

480-146076 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8082A - PCB's	8260C - TCL VOA's	Sample Specific Notes:
MW-5R	11/28/18	1205	G	GW	5	N	N	X	X	
MW-2R	11/28/18	1340	G	GW	5	N	N	X	X	
MW-7	11/29/18	1300	G	GW	5	N	N	X	X	
MW-8	11/29/18	0940	G	GW	5	N	N	X	X	
MW-4	11/29/18	1110	G	GW	5	N	N	X	X	
MW-6	11/29/18	1415	G	GW	5	N	N	X	X	
MW-8 (MS/MSD)	11/29/18	0950	G	GW	10	N	N	X	X	
DUP-112918	11/29/18	[redacted]	G	GW	5	N	N	X	X	
Trip Blank	11/29/18	–	–		4	N	N	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 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

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

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.9 Corr'd: _____ | Therm ID No.: 1

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Matthew K	Arcadis	[redacted]		TA	11/30/18 0810
Relinquished by:	Company:	Date/Time: 11/30/18 0810	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Client Sample ID: MW-5R

Date Collected: 11/29/18 12:05
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 11:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 11:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 11:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 11:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 11:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 11:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 11:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 11:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 11:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 11:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 11:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 11:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 11:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 11:46	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 11:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 11:46	1
Acetone	ND		10	3.0	ug/L			12/05/18 11:46	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 11:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 11:46	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 11:46	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 11:46	1
Carbon disulfide	**0.24**	**J**	1.0	0.19	ug/L			12/05/18 11:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 11:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 11:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 11:46	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 11:46	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 11:46	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 11:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 11:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 11:46	1
Cyclohexane	ND	UJ	1.0	0.18	ug/L			12/05/18 11:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 11:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 11:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 11:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 11:46	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 11:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 11:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 11:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 11:46	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 11:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 11:46	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 11:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 11:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 11:46	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 11:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 11:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 11:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 11:46	1

Client Sample ID: MW-5R

Date Collected: 11/29/18 12:05
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*12/05/18 11:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*12/05/18 11:46*	*1*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*12/05/18 11:46*	*1*
Dibromofluoromethane (Surr)	*85*		*75 - 123*		*12/05/18 11:46*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*39 - 121*	*12/04/18 14:36*	*12/05/18 20:57*	*1*
Tetrachloro-m-xylene	*80*		*39 - 121*	*12/04/18 14:36*	*12/05/18 20:57*	*1*
DCB Decachlorobiphenyl	*61*		*19 - 120*	*12/04/18 14:36*	*12/05/18 20:57*	*1*
DCB Decachlorobiphenyl	*71*		*19 - 120*	*12/04/18 14:36*	*12/05/18 20:57*	*1*

Client Sample ID: MW-2R

Date Collected: 11/28/18 13:40
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 12:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 12:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 12:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 12:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 12:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 12:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 12:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 12:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 12:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 12:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 12:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 12:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 12:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 12:14	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 12:14	1
Acetone	ND		10	3.0	ug/L			12/05/18 12:14	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 12:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 12:14	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 12:14	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 12:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 12:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 12:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 12:14	1

Client Sample ID: MW-2R

Date Collected: 11/28/18 13:40
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 12:14	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 12:14	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 12:14	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 12:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 12:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 12:14	1
Cyclohexane	ND	UJ	1.0	0.18	ug/L			12/05/18 12:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 12:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 12:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 12:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 12:14	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 12:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 12:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 12:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 12:14	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 12:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 12:14	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 12:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 12:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 12:14	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 12:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 12:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 12:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/05/18 12:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*12/05/18 12:14*	*1*
4-Bromofluorobenzene (Surr)	*81*		*73 - 120*		*12/05/18 12:14*	*1*
Dibromofluoromethane (Surr)	*86*		*75 - 123*		*12/05/18 12:14*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:13*	*1*
Tetrachloro-m-xylene	*60*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:13*	*1*
DCB Decachlorobiphenyl	*67*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:13*	*1*
DCB Decachlorobiphenyl	*76*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:13*	*1*

Client Sample ID: MW-7

Date Collected: 11/29/18 13:00
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 12:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 12:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 12:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 12:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 12:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 12:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 12:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 12:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 12:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 12:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 12:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 12:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 12:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 12:41	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 12:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 12:41	1
Acetone	ND		10	3.0	ug/L			12/05/18 12:41	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 12:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 12:41	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 12:41	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 12:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 12:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 12:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 12:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 12:41	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 12:41	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 12:41	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 12:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 12:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 12:41	1
Cyclohexane	ND	UJ	1.0	0.18	ug/L			12/05/18 12:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 12:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 12:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 12:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 12:41	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 12:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 12:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 12:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 12:41	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 12:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 12:41	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 12:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 12:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 12:41	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 12:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 12:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 12:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 12:41	1

Client Sample ID: MW-7

Date Collected: 11/29/18 13:00
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/05/18 12:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*12/05/18 12:41*	*1*
4-Bromofluorobenzene (Surr)	*81*		*73 - 120*		*12/05/18 12:41*	*1*
Dibromofluoromethane (Surr)	*88*		*75 - 123*		*12/05/18 12:41*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:29*	*1*
Tetrachloro-m-xylene	*78*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:29*	*1*
DCB Decachlorobiphenyl	*76*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:29*	*1*
DCB Decachlorobiphenyl	*91*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:29*	*1*

Client Sample ID: MW-4

Date Collected: 11/29/18 11:10
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 13:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 13:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 13:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 13:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 13:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 13:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 13:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 13:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 13:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 13:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 13:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 13:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 13:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 13:09	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 13:09	1
Acetone	ND		10	3.0	ug/L			12/05/18 13:09	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 13:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 13:09	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 13:09	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 13:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 13:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 13:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 13:09	1

Client Sample ID: MW-4

Date Collected: 11/29/18 11:10
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 13:09	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 13:09	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 13:09	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 13:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 13:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 13:09	1
Cyclohexane	ND	UJ	1.0	0.18	ug/L			12/05/18 13:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 13:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 13:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 13:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 13:09	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 13:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 13:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 13:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 13:09	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 13:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 13:09	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 13:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 13:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 13:09	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 13:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 13:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 13:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/05/18 13:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*12/05/18 13:09*	*1*
4-Bromofluorobenzene (Surr)	*80*		*73 - 120*		*12/05/18 13:09*	*1*
Dibromofluoromethane (Surr)	*88*		*75 - 123*		*12/05/18 13:09*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:45*	*1*
Tetrachloro-m-xylene	*72*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:45*	*1*
DCB Decachlorobiphenyl	*77*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:45*	*1*
DCB Decachlorobiphenyl	*93*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:45*	*1*

Client Sample ID: MW-6

Date Collected: 11/29/18 14:15
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 13:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 13:37	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 13:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 13:37	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 13:37	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 13:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 13:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 13:37	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 13:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 13:37	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 13:37	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 13:37	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 13:37	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 13:37	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 13:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 13:37	1
Acetone	ND		10	3.0	ug/L			12/05/18 13:37	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 13:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 13:37	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 13:37	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 13:37	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 13:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 13:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 13:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 13:37	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 13:37	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 13:37	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 13:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 13:37	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 13:37	1
Cyclohexane	ND	UJ	1.0	0.18	ug/L			12/05/18 13:37	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 13:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 13:37	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 13:37	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 13:37	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 13:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 13:37	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 13:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 13:37	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 13:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 13:37	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 13:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 13:37	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 13:37	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 13:37	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 13:37	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 13:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 13:37	1

Client Sample ID: MW-6

Date Collected: 11/29/18 14:15
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*12/05/18 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*12/05/18 13:37*	*1*
4-Bromofluorobenzene (Surr)	*79*		*73 - 120*		*12/05/18 13:37*	*1*
Dibromofluoromethane (Surr)	*87*		*75 - 123*		*12/05/18 13:37*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*39 - 121*	*12/04/18 14:36*	*12/05/18 22:01*	*1*
Tetrachloro-m-xylene	*62*		*39 - 121*	*12/04/18 14:36*	*12/05/18 22:01*	*1*
DCB Decachlorobiphenyl	*58*		*19 - 120*	*12/04/18 14:36*	*12/05/18 22:01*	*1*
DCB Decachlorobiphenyl	*67*		*19 - 120*	*12/04/18 14:36*	*12/05/18 22:01*	*1*

Client Sample ID: MW-8

Date Collected: 11/29/18 09:40
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 14:04	1
1,1,2,2-Tetrachloroethane	ND	F1	1.0	0.21	ug/L			12/05/18 14:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 14:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 14:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 14:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 14:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 14:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 14:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 14:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 14:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 14:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 14:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 14:04	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 14:04	1
4-Methyl-2-pentanone (MIBK)	ND	F1	5.0	2.1	ug/L			12/05/18 14:04	1
Acetone	ND		10	3.0	ug/L			12/05/18 14:04	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 14:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 14:04	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 14:04	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 14:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 14:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 14:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 14:04	1

Client Sample ID: MW-8

Date Collected: 11/29/18 09:40
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 14:04	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 14:04	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 14:04	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 14:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 14:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 14:04	1
Cyclohexane	ND	UJ	1.0	0.18	ug/L			12/05/18 14:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 14:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 14:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 14:04	1
Isopropylbenzene	ND	F1	1.0	0.79	ug/L			12/05/18 14:04	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 14:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 14:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 14:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 14:04	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 14:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 14:04	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 14:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 14:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 14:04	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 14:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 14:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 14:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*12/05/18 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*12/05/18 14:04*	*1*
4-Bromofluorobenzene (Surr)	*79*		*73 - 120*		*12/05/18 14:04*	*1*
Dibromofluoromethane (Surr)	*85*		*75 - 123*		*12/05/18 14:04*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*39 - 121*	*12/04/18 14:36*	*12/05/18 20:09*	*1*
Tetrachloro-m-xylene	*59*		*39 - 121*	*12/04/18 14:36*	*12/05/18 20:09*	*1*
DCB Decachlorobiphenyl	*65*		*19 - 120*	*12/04/18 14:36*	*12/05/18 20:09*	*1*
DCB Decachlorobiphenyl	*77*		*19 - 120*	*12/04/18 14:36*	*12/05/18 20:09*	*1*

Client Sample ID: DUP-112918

Date Collected: 11/29/18 00:00
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 14:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 14:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 14:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 14:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 14:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 14:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 14:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 14:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 14:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 14:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 14:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 14:32	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 14:32	1
Acetone	ND		10	3.0	ug/L			12/05/18 14:32	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 14:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 14:32	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 14:32	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 14:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 14:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 14:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 14:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 14:32	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 14:32	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 14:32	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 14:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 14:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 14:32	1
Cyclohexane	ND	UJ	1.0	0.18	ug/L			12/05/18 14:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 14:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 14:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 14:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 14:32	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 14:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 14:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 14:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 14:32	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 14:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 14:32	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 14:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 14:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 14:32	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 14:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 14:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 14:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 14:32	1

Client Sample ID: DUP-112918

Lab Sample ID: 480-146076-8

Date Collected: 11/29/18 00:00

Matrix: Water

Date Received: 11/30/18 08:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*12/05/18 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*12/05/18 14:32*	*1*
4-Bromofluorobenzene (Surr)	*78*		*73 - 120*		*12/05/18 14:32*	*1*
Dibromofluoromethane (Surr)	*83*		*75 - 123*		*12/05/18 14:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*39 - 121*	*12/04/18 14:36*	*12/05/18 22:17*	*1*
Tetrachloro-m-xylene	*59*		*39 - 121*	*12/04/18 14:36*	*12/05/18 22:17*	*1*
DCB Decachlorobiphenyl	*64*		*19 - 120*	*12/04/18 14:36*	*12/05/18 22:17*	*1*
DCB Decachlorobiphenyl	*74*		*19 - 120*	*12/04/18 14:36*	*12/05/18 22:17*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-146076-9

Date Collected: 11/29/18 00:00

Matrix: Water

Date Received: 11/30/18 08:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/18 14:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/18 14:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/18 14:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/18 14:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/18 14:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/18 14:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/18 14:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/18 14:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/18 14:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/18 14:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/18 14:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/18 14:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/18 14:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/18 14:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/18 14:44	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/18 14:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/18 14:44	1
Acetone	ND	UJ	10	3.0	ug/L			12/04/18 14:44	1
Benzene	ND		1.0	0.41	ug/L			12/04/18 14:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/18 14:44	1
Bromoform	ND		1.0	0.26	ug/L			12/04/18 14:44	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/18 14:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/18 14:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/18 14:44	1

Client Sample ID: Trip Blank

Date Collected: 11/29/18 00:00
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/18 14:44	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/18 14:44	1
Chloroform	ND		1.0	0.34	ug/L			12/04/18 14:44	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/18 14:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/04/18 14:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/18 14:44	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/18 14:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/18 14:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/18 14:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/18 14:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/18 14:44	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/18 14:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/18 14:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/18 14:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/18 14:44	1
Styrene	ND		1.0	0.73	ug/L			12/04/18 14:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/04/18 14:44	1
Toluene	ND		1.0	0.51	ug/L			12/04/18 14:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/18 14:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/18 14:44	1
Trichloroethene	ND		1.0	0.46	ug/L			12/04/18 14:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/18 14:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/18 14:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/18 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*12/04/18 14:44*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/04/18 14:44*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/04/18 14:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/04/18 14:44*	*1*

APPENDIX C

Laboratory Analytical Reports

ANALYTICAL REPORT

Job Number: 480-146076-1

Job Description: GE Tonawanda

Contract Number: TAAT092507-R010110

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, NY 13202

Attention: Mr. David Cornell

Approved for release.
Mary A Schwartzmyer
Project Manager I
12/14/2018 1:04 PM

Designee for
Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
12/14/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-146076-1

Comments
No additional comments.

Receipt
The samples were received on 11/30/2018 8:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

Receipt Exceptions

The COC requested PCB's be analyzed on sample Trip Blank, but no volume was received for this analysis.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-449099 recovered above the upper control limit for Cyclohexane. 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-5R (480-146076-1), MW-2R (480-146076-2), MW-7 (480-146076-3), MW-4 (480-146076-5), MW-6 (480-146076-6), MW-8 (480-146076-7) and DUP-112918 (480-146076-8).

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-8 (480-146076-7). The sample was analyzed within 7 days per EPA recommendation.

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

GC Semi VOA
Method(s) 8082A: The following samples are associated with a continuing calibration verification (CCV 480-449147/5 and 480-449147/31) that had recoveries for the surrogate Tetrachloro-m-xylene that were slightly above acceptance limits: MW-5R (480-146076-1), MW-2R (480-146076-2), MW-7 (480-146076-3), MW-4 (480-146076-5), MW-6 (480-146076-6), MW-8 (480-146076-7) and DUP-112918 (480-146076-8). The secondary surrogate Decachlorobiphenyl is within limits. Therefore, the data has been reported.

Method(s) 8082A: All primary data for analytical batch 449147 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

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

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-146076-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-146076-1	MW-5R	Water	11/29/18 12:05	11/30/18 08:10
480-146076-2	MW-2R	Water	11/28/18 13:40	11/30/18 08:10
480-146076-3	MW-7	Water	11/29/18 13:00	11/30/18 08:10
480-146076-5	MW-4	Water	11/29/18 11:10	11/30/18 08:10
480-146076-6	MW-6	Water	11/29/18 14:15	11/30/18 08:10
480-146076-7	MW-8	Water	11/29/18 09:40	11/30/18 08:10
480-146076-8	DUP-112918	Water	11/29/18 00:00	11/30/18 08:10
480-146076-9	Trip Blank	Water	11/29/18 00:00	11/30/18 08:10

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-146076-1

Client Sample ID: MW-5R — Lab Sample ID: 480-146076-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.24	J	1.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: MW-2R — Lab Sample ID: 480-146076-2

No Detections.

Client Sample ID: MW-7 — Lab Sample ID: 480-146076-3

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 480-146076-5

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 480-146076-6

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 480-146076-7

No Detections.

Client Sample ID: DUP-112918 — Lab Sample ID: 480-146076-8

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 480-146076-9

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-146076-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	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

Client Sample ID: MW-5R

Date Collected: 11/29/18 12:05
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 11:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 11:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 11:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 11:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 11:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 11:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 11:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 11:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 11:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 11:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 11:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 11:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 11:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 11:46	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 11:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 11:46	1
Acetone	ND		10	3.0	ug/L			12/05/18 11:46	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 11:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 11:46	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 11:46	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 11:46	1
Carbon disulfide	**0.24**	**J**	1.0	0.19	ug/L			12/05/18 11:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 11:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 11:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 11:46	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 11:46	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 11:46	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 11:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 11:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 11:46	1
Cyclohexane	ND		1.0	0.18	ug/L			12/05/18 11:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 11:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 11:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 11:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 11:46	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 11:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 11:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 11:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 11:46	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 11:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 11:46	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 11:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 11:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 11:46	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 11:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 11:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 11:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 11:46	1

Client Sample ID: MW-5R

Date Collected: 11/29/18 12:05
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*12/05/18 11:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*12/05/18 11:46*	*1*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*12/05/18 11:46*	*1*
Dibromofluoromethane (Surr)	*85*		*75 - 123*		*12/05/18 11:46*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 20:57	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*39 - 121*	*12/04/18 14:36*	*12/05/18 20:57*	*1*
Tetrachloro-m-xylene	*80*		*39 - 121*	*12/04/18 14:36*	*12/05/18 20:57*	*1*
DCB Decachlorobiphenyl	*61*		*19 - 120*	*12/04/18 14:36*	*12/05/18 20:57*	*1*
DCB Decachlorobiphenyl	*71*		*19 - 120*	*12/04/18 14:36*	*12/05/18 20:57*	*1*

Client Sample ID: MW-2R

Date Collected: 11/28/18 13:40
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 12:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 12:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 12:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 12:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 12:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 12:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 12:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 12:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 12:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 12:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 12:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 12:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 12:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 12:14	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 12:14	1
Acetone	ND		10	3.0	ug/L			12/05/18 12:14	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 12:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 12:14	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 12:14	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 12:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 12:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 12:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 12:14	1

Client Sample ID: MW-2R
Date Collected: 11/28/18 13:40
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 12:14	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 12:14	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 12:14	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 12:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 12:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 12:14	1
Cyclohexane	ND		1.0	0.18	ug/L			12/05/18 12:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 12:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 12:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 12:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 12:14	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 12:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 12:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 12:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 12:14	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 12:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 12:14	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 12:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 12:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 12:14	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 12:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 12:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 12:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/05/18 12:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*12/05/18 12:14*	*1*
4-Bromofluorobenzene (Surr)	*81*		*73 - 120*		*12/05/18 12:14*	*1*
Dibromofluoromethane (Surr)	*86*		*75 - 123*		*12/05/18 12:14*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:13	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:13*	*1*
Tetrachloro-m-xylene	*60*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:13*	*1*
DCB Decachlorobiphenyl	*67*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:13*	*1*
DCB Decachlorobiphenyl	*76*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:13*	*1*

Client Sample ID: MW-7

Date Collected: 11/29/18 13:00
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 12:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 12:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 12:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 12:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 12:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 12:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 12:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 12:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 12:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 12:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 12:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 12:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 12:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 12:41	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 12:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 12:41	1
Acetone	ND		10	3.0	ug/L			12/05/18 12:41	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 12:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 12:41	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 12:41	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 12:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 12:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 12:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 12:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 12:41	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 12:41	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 12:41	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 12:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 12:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 12:41	1
Cyclohexane	ND		1.0	0.18	ug/L			12/05/18 12:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 12:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 12:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 12:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 12:41	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 12:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 12:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 12:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 12:41	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 12:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 12:41	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 12:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 12:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 12:41	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 12:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 12:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 12:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 12:41	1

Client Sample ID: MW-7

Date Collected: 11/29/18 13:00
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-3

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/05/18 12:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*12/05/18 12:41*	*1*
4-Bromofluorobenzene (Surr)	*81*		*73 - 120*		*12/05/18 12:41*	*1*
Dibromofluoromethane (Surr)	*88*		*75 - 123*		*12/05/18 12:41*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:29	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:29*	*1*
Tetrachloro-m-xylene	*78*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:29*	*1*
DCB Decachlorobiphenyl	*76*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:29*	*1*
DCB Decachlorobiphenyl	*91*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:29*	*1*

Client Sample ID: MW-4

Date Collected: 11/29/18 11:10
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 13:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 13:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 13:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 13:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 13:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 13:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 13:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 13:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 13:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 13:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 13:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 13:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 13:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 13:09	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 13:09	1
Acetone	ND		10	3.0	ug/L			12/05/18 13:09	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 13:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 13:09	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 13:09	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 13:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 13:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 13:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 13:09	1

Client Sample ID: MW-4

Date Collected: 11/29/18 11:10
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 13:09	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 13:09	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 13:09	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 13:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 13:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 13:09	1
Cyclohexane	ND		1.0	0.18	ug/L			12/05/18 13:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 13:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 13:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 13:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 13:09	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 13:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 13:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 13:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 13:09	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 13:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 13:09	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 13:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 13:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 13:09	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 13:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 13:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 13:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/05/18 13:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*12/05/18 13:09*	*1*
4-Bromofluorobenzene (Surr)	*80*		*73 - 120*		*12/05/18 13:09*	*1*
Dibromofluoromethane (Surr)	*88*		*75 - 123*		*12/05/18 13:09*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:45	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:45*	*1*
Tetrachloro-m-xylene	*72*		*39 - 121*	*12/04/18 14:36*	*12/05/18 21:45*	*1*
DCB Decachlorobiphenyl	*77*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:45*	*1*
DCB Decachlorobiphenyl	*93*		*19 - 120*	*12/04/18 14:36*	*12/05/18 21:45*	*1*

Client Sample ID: MW-6

Date Collected: 11/29/18 14:15
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 13:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 13:37	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 13:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 13:37	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 13:37	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 13:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 13:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 13:37	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 13:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 13:37	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 13:37	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 13:37	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 13:37	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 13:37	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 13:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 13:37	1
Acetone	ND		10	3.0	ug/L			12/05/18 13:37	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 13:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 13:37	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 13:37	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 13:37	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 13:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 13:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 13:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 13:37	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 13:37	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 13:37	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 13:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 13:37	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 13:37	1
Cyclohexane	ND		1.0	0.18	ug/L			12/05/18 13:37	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 13:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 13:37	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 13:37	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 13:37	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 13:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 13:37	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 13:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 13:37	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 13:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 13:37	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 13:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 13:37	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 13:37	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 13:37	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 13:37	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 13:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 13:37	1

Client Sample ID: MW-6

Date Collected: 11/29/18 14:15
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-6

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*12/05/18 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*12/05/18 13:37*	*1*
4-Bromofluorobenzene (Surr)	*79*		*73 - 120*		*12/05/18 13:37*	*1*
Dibromofluoromethane (Surr)	*87*		*75 - 123*		*12/05/18 13:37*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 22:01	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*39 - 121*	*12/04/18 14:36*	*12/05/18 22:01*	*1*
Tetrachloro-m-xylene	*62*		*39 - 121*	*12/04/18 14:36*	*12/05/18 22:01*	*1*
DCB Decachlorobiphenyl	*58*		*19 - 120*	*12/04/18 14:36*	*12/05/18 22:01*	*1*
DCB Decachlorobiphenyl	*67*		*19 - 120*	*12/04/18 14:36*	*12/05/18 22:01*	*1*

Client Sample ID: MW-8

Date Collected: 11/29/18 09:40
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 14:04	1
1,1,2,2-Tetrachloroethane	ND	F1	1.0	0.21	ug/L			12/05/18 14:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 14:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 14:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 14:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 14:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 14:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 14:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 14:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 14:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 14:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 14:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 14:04	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 14:04	1
4-Methyl-2-pentanone (MIBK)	ND	F1	5.0	2.1	ug/L			12/05/18 14:04	1
Acetone	ND		10	3.0	ug/L			12/05/18 14:04	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 14:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 14:04	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 14:04	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 14:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 14:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 14:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 14:04	1

Client Sample ID: MW-8

Date Collected: 11/29/18 09:40
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 14:04	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 14:04	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 14:04	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 14:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 14:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 14:04	1
Cyclohexane	ND		1.0	0.18	ug/L			12/05/18 14:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 14:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 14:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 14:04	1
Isopropylbenzene	ND	F1	1.0	0.79	ug/L			12/05/18 14:04	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 14:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 14:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 14:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 14:04	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 14:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 14:04	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 14:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 14:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 14:04	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 14:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 14:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 14:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*12/05/18 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*12/05/18 14:04*	*1*
4-Bromofluorobenzene (Surr)	*79*		*73 - 120*		*12/05/18 14:04*	*1*
Dibromofluoromethane (Surr)	*85*		*75 - 123*		*12/05/18 14:04*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 20:09	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*39 - 121*	*12/04/18 14:36*	*12/05/18 20:09*	*1*
Tetrachloro-m-xylene	*59*		*39 - 121*	*12/04/18 14:36*	*12/05/18 20:09*	*1*
DCB Decachlorobiphenyl	*65*		*19 - 120*	*12/04/18 14:36*	*12/05/18 20:09*	*1*
DCB Decachlorobiphenyl	*77*		*19 - 120*	*12/04/18 14:36*	*12/05/18 20:09*	*1*

Client Sample ID: DUP-112918

Date Collected: 11/29/18 00:00
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 14:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 14:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 14:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 14:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 14:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 14:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 14:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 14:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 14:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 14:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 14:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 14:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 14:32	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 14:32	1
Acetone	ND		10	3.0	ug/L			12/05/18 14:32	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 14:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 14:32	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 14:32	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 14:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 14:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 14:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 14:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 14:32	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 14:32	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 14:32	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 14:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 14:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 14:32	1
Cyclohexane	ND		1.0	0.18	ug/L			12/05/18 14:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 14:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 14:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 14:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 14:32	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 14:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 14:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 14:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 14:32	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 14:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 14:32	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 14:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 14:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 14:32	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 14:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 14:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 14:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 14:32	1

Client Sample ID: DUP-112918

Lab Sample ID: 480-146076-8

Date Collected: 11/29/18 00:00

Matrix: Water

Date Received: 11/30/18 08:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*12/05/18 14:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*12/05/18 14:32*	*1*
4-Bromofluorobenzene (Surr)	*78*		*73 - 120*		*12/05/18 14:32*	*1*
Dibromofluoromethane (Surr)	*83*		*75 - 123*		*12/05/18 14:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 22:17	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*39 - 121*	*12/04/18 14:36*	*12/05/18 22:17*	*1*
Tetrachloro-m-xylene	*59*		*39 - 121*	*12/04/18 14:36*	*12/05/18 22:17*	*1*
DCB Decachlorobiphenyl	*64*		*19 - 120*	*12/04/18 14:36*	*12/05/18 22:17*	*1*
DCB Decachlorobiphenyl	*74*		*19 - 120*	*12/04/18 14:36*	*12/05/18 22:17*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-146076-9

Date Collected: 11/29/18 00:00

Matrix: Water

Date Received: 11/30/18 08:10

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/18 14:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/18 14:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/18 14:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/18 14:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/18 14:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/18 14:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/18 14:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/18 14:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/18 14:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/18 14:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/18 14:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/18 14:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/18 14:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/18 14:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/18 14:44	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/18 14:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/18 14:44	1
Acetone	ND		10	3.0	ug/L			12/04/18 14:44	1
Benzene	ND		1.0	0.41	ug/L			12/04/18 14:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/18 14:44	1
Bromoform	ND		1.0	0.26	ug/L			12/04/18 14:44	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/18 14:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/18 14:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/18 14:44	1

Client Sample ID: Trip Blank

Date Collected: 11/29/18 00:00
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/18 14:44	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/18 14:44	1
Chloroform	ND		1.0	0.34	ug/L			12/04/18 14:44	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/18 14:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/04/18 14:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/18 14:44	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/18 14:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/18 14:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/18 14:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/18 14:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/18 14:44	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/18 14:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/18 14:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/18 14:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/18 14:44	1
Styrene	ND		1.0	0.73	ug/L			12/04/18 14:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/04/18 14:44	1
Toluene	ND		1.0	0.51	ug/L			12/04/18 14:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/18 14:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/18 14:44	1
Trichloroethene	ND		1.0	0.46	ug/L			12/04/18 14:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/18 14:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/18 14:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/18 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*12/04/18 14:44*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/04/18 14:44*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/04/18 14:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/04/18 14:44*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-146076-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-146076-1	MW-5R	90	94	82	85
480-146076-2	MW-2R	91	95	81	86
480-146076-3	MW-7	92	100	81	88
480-146076-5	MW-4	91	97	80	88
480-146076-6	MW-6	90	102	79	87
480-146076-7	MW-8	90	96	79	85
480-146076-7 MS	MW-8	93	94	84	86
480-146076-7 MSD	MW-8	91	96	84	86
480-146076-8	DUP-112918	89	98	78	83
480-146076-9	Trip Blank	99	103	100	101
LCS 480-448834/5	Lab Control Sample	98	102	101	101
LCS 480-449099/4	Lab Control Sample	89	97	81	86
MB 480-448834/7	Method Blank	97	105	101	104
MB 480-449099/7	Method Blank	91	96	82	86

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(39-121)	(39-121)	(19-120)	(19-120)
480-146076-1	MW-5R	102	80	61	71
480-146076-2	MW-2R	91	60	67	76
480-146076-3	MW-7	102	78	76	91
480-146076-5	MW-4	104	72	77	93
480-146076-6	MW-6	84	62	58	67
480-146076-7	MW-8	88	59	65	77
480-146076-7 MS	MW-8	104	71	67	79
480-146076-7 MSD	MW-8	100	68	60	70
480-146076-8	DUP-112918	83	59	64	74
LCS 480-448984/2-A	Lab Control Sample	99	65	47	55
MB 480-448984/1-A	Method Blank	84	59	44	48

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-448834/7
Matrix: Water
Analysis Batch: 448834

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/04/18 10:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/04/18 10:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/04/18 10:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/04/18 10:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/04/18 10:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/04/18 10:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/04/18 10:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/04/18 10:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/04/18 10:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/04/18 10:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/04/18 10:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/04/18 10:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/04/18 10:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/04/18 10:30	1
2-Hexanone	ND		5.0	1.2	ug/L			12/04/18 10:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/04/18 10:30	1
Acetone	ND		10	3.0	ug/L			12/04/18 10:30	1
Benzene	ND		1.0	0.41	ug/L			12/04/18 10:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/04/18 10:30	1
Bromoform	ND		1.0	0.26	ug/L			12/04/18 10:30	1
Bromomethane	ND		1.0	0.69	ug/L			12/04/18 10:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/04/18 10:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/04/18 10:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/04/18 10:30	1
Chloroethane	ND		1.0	0.32	ug/L			12/04/18 10:30	1
Chloroform	ND		1.0	0.34	ug/L			12/04/18 10:30	1
Chloromethane	ND		1.0	0.35	ug/L			12/04/18 10:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/04/18 10:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/04/18 10:30	1
Cyclohexane	ND		1.0	0.18	ug/L			12/04/18 10:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/04/18 10:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/04/18 10:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/04/18 10:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/04/18 10:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/04/18 10:30	1
Methyl acetate	ND		2.5	1.3	ug/L			12/04/18 10:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/04/18 10:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/04/18 10:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/04/18 10:30	1
Styrene	ND		1.0	0.73	ug/L			12/04/18 10:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/04/18 10:30	1
Toluene	ND		1.0	0.51	ug/L			12/04/18 10:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/04/18 10:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/04/18 10:30	1
Trichloroethene	ND		1.0	0.46	ug/L			12/04/18 10:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/04/18 10:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/04/18 10:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/04/18 10:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/04/18 10:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*12/04/18 10:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/04/18 10:30*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*12/04/18 10:30*	*1*

Lab Sample ID: LCS 480-448834/5
Matrix: Water
Analysis Batch: 448834

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	25.2		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.7		ug/L		99	61 - 148
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	76 - 122
1,1-Dichloroethane	25.0	25.2		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	25.4		ug/L		102	66 - 127
1,2,4-Trichlorobenzene	25.0	24.0		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.4		ug/L		102	56 - 134
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	25.2		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	25.3		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	77 - 120
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 120
2-Butanone (MEK)	125	140		ug/L		112	57 - 140
2-Hexanone	125	136		ug/L		109	65 - 127
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		105	71 - 125
Acetone	125	171		ug/L		137	56 - 142
Benzene	25.0	24.4		ug/L		97	71 - 124
Bromodichloromethane	25.0	26.0		ug/L		104	80 - 122
Bromoform	25.0	27.1		ug/L		108	61 - 132
Bromomethane	25.0	22.5		ug/L		90	55 - 144
Carbon disulfide	25.0	23.1		ug/L		92	59 - 134
Carbon tetrachloride	25.0	25.2		ug/L		101	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120
Chloroethane	25.0	26.2		ug/L		105	69 - 136
Chloroform	25.0	25.0		ug/L		100	73 - 127
Chloromethane	25.0	22.8		ug/L		91	68 - 124
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	74 - 124
Cyclohexane	25.0	25.9		ug/L		104	59 - 135
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
Dibromochloromethane	25.0	27.6		ug/L		110	75 - 125
Dichlorodifluoromethane	25.0	27.6		ug/L		110	59 - 135
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
Isopropylbenzene	25.0	24.7		ug/L		99	77 - 122
Methyl acetate	50.0	47.2		ug/L		94	74 - 133
Methyl tert-butyl ether	25.0	24.5		ug/L		98	77 - 120
Methylcyclohexane	25.0	26.0		ug/L		104	68 - 134
Methylene Chloride	25.0	22.5		ug/L		90	75 - 124
Styrene	25.0	25.5		ug/L		102	80 - 120
Tetrachloroethene	25.0	24.9		ug/L		99	74 - 122
Toluene	25.0	24.5		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	73 - 127

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

Lab Sample ID: LCS 480-448834/5
Matrix: Water
Analysis Batch: 448834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	80 - 120
Trichloroethene	25.0	24.6		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	27.9		ug/L		111	62 - 150
Vinyl chloride	25.0	25.9		ug/L		104	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: MB 480-449099/7
Matrix: Water
Analysis Batch: 449099

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/05/18 11:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/05/18 11:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/05/18 11:03	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/05/18 11:03	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/05/18 11:03	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/05/18 11:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/05/18 11:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/05/18 11:03	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/05/18 11:03	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/05/18 11:03	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/05/18 11:03	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/05/18 11:03	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/05/18 11:03	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/05/18 11:03	1
2-Hexanone	ND		5.0	1.2	ug/L			12/05/18 11:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/05/18 11:03	1
Acetone	ND		10	3.0	ug/L			12/05/18 11:03	1
Benzene	ND		1.0	0.41	ug/L			12/05/18 11:03	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/05/18 11:03	1
Bromoform	ND		1.0	0.26	ug/L			12/05/18 11:03	1
Bromomethane	ND		1.0	0.69	ug/L			12/05/18 11:03	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/05/18 11:03	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/05/18 11:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/05/18 11:03	1
Chloroethane	ND		1.0	0.32	ug/L			12/05/18 11:03	1
Chloroform	ND		1.0	0.34	ug/L			12/05/18 11:03	1
Chloromethane	ND		1.0	0.35	ug/L			12/05/18 11:03	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/05/18 11:03	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/05/18 11:03	1
Cyclohexane	ND		1.0	0.18	ug/L			12/05/18 11:03	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/05/18 11:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/05/18 11:03	1

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

Lab Sample ID: MB 480-449099/7
Matrix: Water
Analysis Batch: 449099

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/05/18 11:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/05/18 11:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/05/18 11:03	1
Methyl acetate	ND		2.5	1.3	ug/L			12/05/18 11:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/05/18 11:03	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/05/18 11:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/05/18 11:03	1
Styrene	ND		1.0	0.73	ug/L			12/05/18 11:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/05/18 11:03	1
Toluene	ND		1.0	0.51	ug/L			12/05/18 11:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/05/18 11:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/05/18 11:03	1
Trichloroethene	ND		1.0	0.46	ug/L			12/05/18 11:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/05/18 11:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/05/18 11:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/05/18 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/05/18 11:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*12/05/18 11:03*	*1*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*12/05/18 11:03*	*1*
Dibromofluoromethane (Surr)	*86*		*75 - 123*		*12/05/18 11:03*	*1*

Lab Sample ID: LCS 480-449099/4
Matrix: Water
Analysis Batch: 449099

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	25.3		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	28.9		ug/L		116	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.8		ug/L		103	61 - 148
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	76 - 122
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	22.5		ug/L		90	66 - 127
1,2,4-Trichlorobenzene	25.0	22.6		ug/L		90	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.5		ug/L		106	56 - 134
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	25.6		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	25.4		ug/L		102	76 - 120
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 120
2-Butanone (MEK)	125	129		ug/L		103	57 - 140
2-Hexanone	125	131		ug/L		105	65 - 127
4-Methyl-2-pentanone (MIBK)	125	134		ug/L		107	71 - 125
Acetone	125	126		ug/L		101	56 - 142
Benzene	25.0	26.0		ug/L		104	71 - 124
Bromodichloromethane	25.0	25.7		ug/L		103	80 - 122

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

Lab Sample ID: LCS 480-449099/4
Matrix: Water
Analysis Batch: 449099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	25.0	21.5		ug/L		86	61 - 132
Bromomethane	25.0	21.5		ug/L		86	55 - 144
Carbon disulfide	25.0	26.9		ug/L		108	59 - 134
Carbon tetrachloride	25.0	24.8		ug/L		99	72 - 134
Chlorobenzene	25.0	23.1		ug/L		92	80 - 120
Chloroethane	25.0	26.4		ug/L		106	69 - 136
Chloroform	25.0	25.5		ug/L		102	73 - 127
Chloromethane	25.0	24.5		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	25.4		ug/L		102	74 - 124
Cyclohexane	25.0	28.3		ug/L		113	59 - 135
1,2-Dibromoethane	25.0	23.9		ug/L		96	77 - 120
Dibromochloromethane	25.0	22.6		ug/L		90	75 - 125
Dichlorodifluoromethane	25.0	21.4		ug/L		86	59 - 135
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
Isopropylbenzene	25.0	27.9		ug/L		112	77 - 122
Methyl acetate	50.0	49.5		ug/L		99	74 - 133
Methyl tert-butyl ether	25.0	24.6		ug/L		98	77 - 120
Methylcyclohexane	25.0	25.1		ug/L		100	68 - 134
Methylene Chloride	25.0	24.5		ug/L		98	75 - 124
Styrene	25.0	23.7		ug/L		95	80 - 120
Tetrachloroethene	25.0	21.9		ug/L		88	74 - 122
Toluene	25.0	24.5		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	73 - 127
trans-1,3-Dichloropropene	25.0	26.1		ug/L		105	80 - 120
Trichloroethene	25.0	23.7		ug/L		95	74 - 123
Trichlorofluoromethane	25.0	21.8		ug/L		87	62 - 150
Vinyl chloride	25.0	24.4		ug/L		98	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*89*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*81*		*73 - 120*
Dibromofluoromethane (Surr)	*86*		*75 - 123*

Lab Sample ID: 480-146076-7 MS
Matrix: Water
Analysis Batch: 449099

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	27.6		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	ND	F1	25.0	33.5	F1	ug/L		134	76 - 120
1,1,2-Trichloroethane	ND		25.0	29.1		ug/L		117	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	21.8		ug/L		87	61 - 148
1,1-Dichloroethane	ND		25.0	28.4		ug/L		114	77 - 120
1,1-Dichloroethene	ND		25.0	23.1		ug/L		92	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	24.9		ug/L		100	79 - 122

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

Lab Sample ID: 480-146076-7 MS
Matrix: Water
Analysis Batch: 449099

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND		25.0	30.0		ug/L		120	56 - 134
1,2-Dichlorobenzene	ND		25.0	27.4		ug/L		109	80 - 124
1,2-Dichloroethane	ND		25.0	28.7		ug/L		115	75 - 120
1,2-Dichloropropane	ND		25.0	28.6		ug/L		114	76 - 120
1,3-Dichlorobenzene	ND		25.0	27.5		ug/L		110	77 - 120
1,4-Dichlorobenzene	ND		25.0	26.9		ug/L		108	78 - 124
2-Butanone (MEK)	ND		125	129		ug/L		103	57 - 140
2-Hexanone	ND		125	150		ug/L		120	65 - 127
4-Methyl-2-pentanone (MIBK)	ND	F1	125	159	F1	ug/L		128	71 - 125
Acetone	ND		125	104		ug/L		83	56 - 142
Benzene	ND		25.0	28.9		ug/L		116	71 - 124
Bromodichloromethane	ND		25.0	28.7		ug/L		115	80 - 122
Bromoform	ND		25.0	26.2		ug/L		105	61 - 132
Bromomethane	ND		25.0	25.2		ug/L		101	55 - 144
Carbon disulfide	ND		25.0	28.8		ug/L		115	59 - 134
Carbon tetrachloride	ND		25.0	26.5		ug/L		106	72 - 134
Chlorobenzene	ND		25.0	26.1		ug/L		105	80 - 120
Dibromochloromethane	ND		25.0	26.7		ug/L		107	75 - 125
Chloroethane	ND		25.0	31.1		ug/L		124	69 - 136
Chloroform	ND		25.0	28.2		ug/L		113	73 - 127
Chloromethane	ND		25.0	30.6		ug/L		122	68 - 124
cis-1,2-Dichloroethene	ND		25.0	25.6		ug/L		102	74 - 124
cis-1,3-Dichloropropene	ND		25.0	27.0		ug/L		108	74 - 124
Cyclohexane	ND		25.0	27.2		ug/L		109	59 - 135
Dichlorodifluoromethane	ND		25.0	19.9		ug/L		80	59 - 135
Ethylbenzene	ND		25.0	28.4		ug/L		113	77 - 123
1,2-Dibromoethane	ND		25.0	27.2		ug/L		109	77 - 120
Isopropylbenzene	ND	F1	25.0	30.1		ug/L		120	77 - 122
Methyl acetate	ND		50.0	49.8		ug/L		100	74 - 133
Methyl tert-butyl ether	ND		25.0	28.7		ug/L		115	77 - 120
Methylcyclohexane	ND		25.0	22.9		ug/L		92	68 - 134
Methylene Chloride	ND		25.0	27.8		ug/L		111	75 - 124
Styrene	ND		25.0	26.7		ug/L		107	80 - 120
Tetrachloroethene	ND		25.0	23.8		ug/L		95	74 - 122
Toluene	ND		25.0	27.5		ug/L		110	80 - 122
trans-1,2-Dichloroethene	ND		25.0	24.6		ug/L		99	73 - 127
trans-1,3-Dichloropropene	ND		25.0	29.5		ug/L		118	80 - 120
Trichloroethene	ND		25.0	25.4		ug/L		102	74 - 123
Trichlorofluoromethane	ND		25.0	26.0		ug/L		104	62 - 150
Vinyl chloride	ND		25.0	30.1		ug/L		120	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*
Dibromofluoromethane (Surr)	*86*		*75 - 123*

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

Lab Sample ID: 480-146076-7 MSD
Matrix: Water
Analysis Batch: 449099

Client Sample ID: MW-8
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	ND		25.0	29.4		ug/L		118	73 - 126	6	15
1,1,2,2-Tetrachloroethane	ND	F1	25.0	33.0	F1	ug/L		132	76 - 120	1	15
1,1,2-Trichloroethane	ND		25.0	28.8		ug/L		115	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.0		ug/L		100	61 - 148	14	20
1,1-Dichloroethane	ND		25.0	29.8		ug/L		119	77 - 120	5	20
1,1-Dichloroethene	ND		25.0	26.2		ug/L		105	66 - 127	13	16
1,2,4-Trichlorobenzene	ND		25.0	25.7		ug/L		103	79 - 122	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	31.2		ug/L		125	56 - 134	4	15
1,2-Dichlorobenzene	ND		25.0	27.8		ug/L		111	80 - 124	2	20
1,2-Dichloroethane	ND		25.0	29.0		ug/L		116	75 - 120	1	20
1,2-Dichloropropane	ND		25.0	29.0		ug/L		116	76 - 120	1	20
1,3-Dichlorobenzene	ND		25.0	27.8		ug/L		111	77 - 120	1	20
1,4-Dichlorobenzene	ND		25.0	27.3		ug/L		109	78 - 124	1	20
2-Butanone (MEK)	ND		125	135		ug/L		108	57 - 140	5	20
2-Hexanone	ND		125	150		ug/L		120	65 - 127	0	15
4-Methyl-2-pentanone (MIBK)	ND	F1	125	159	F1	ug/L		127	71 - 125	0	35
Acetone	ND		125	102		ug/L		82	56 - 142	2	15
Benzene	ND		25.0	29.9		ug/L		120	71 - 124	3	13
Bromodichloromethane	ND		25.0	29.0		ug/L		116	80 - 122	1	15
Bromoform	ND		25.0	25.2		ug/L		101	61 - 132	4	15
Bromomethane	ND		25.0	26.2		ug/L		105	55 - 144	4	15
Carbon disulfide	ND		25.0	31.2		ug/L		125	59 - 134	8	15
Carbon tetrachloride	ND		25.0	27.2		ug/L		109	72 - 134	3	15
Chlorobenzene	ND		25.0	26.6		ug/L		106	80 - 120	2	25
Dibromochloromethane	ND		25.0	26.4		ug/L		106	75 - 125	1	15
Chloroethane	ND		25.0	32.2		ug/L		129	69 - 136	3	15
Chloroform	ND		25.0	29.2		ug/L		117	73 - 127	4	20
Chloromethane	ND		25.0	30.0		ug/L		120	68 - 124	2	15
cis-1,2-Dichloroethene	ND		25.0	26.5		ug/L		106	74 - 124	3	15
cis-1,3-Dichloropropene	ND		25.0	27.4		ug/L		110	74 - 124	2	15
Cyclohexane	ND		25.0	28.1		ug/L		112	59 - 135	3	20
Dichlorodifluoromethane	ND		25.0	20.4		ug/L		82	59 - 135	2	20
Ethylbenzene	ND		25.0	28.9		ug/L		116	77 - 123	2	15
1,2-Dibromoethane	ND		25.0	27.1		ug/L		108	77 - 120	1	15
Isopropylbenzene	ND	F1	25.0	30.9	F1	ug/L		124	77 - 122	3	20
Methyl acetate	ND		50.0	51.7		ug/L		103	74 - 133	4	20
Methyl tert-butyl ether	ND		25.0	28.0		ug/L		112	77 - 120	3	37
Methylcyclohexane	ND		25.0	24.1		ug/L		96	68 - 134	5	20
Methylene Chloride	ND		25.0	27.9		ug/L		112	75 - 124	0	15
Styrene	ND		25.0	27.9		ug/L		111	80 - 120	4	20
Tetrachloroethene	ND		25.0	24.8		ug/L		99	74 - 122	4	20
Toluene	ND		25.0	26.3		ug/L		105	80 - 122	4	15
trans-1,2-Dichloroethene	ND		25.0	26.3		ug/L		105	73 - 127	6	20
trans-1,3-Dichloropropene	ND		25.0	28.0		ug/L		112	80 - 120	5	15
Trichloroethene	ND		25.0	26.4		ug/L		106	74 - 123	4	16
Trichlorofluoromethane	ND		25.0	26.7		ug/L		107	62 - 150	3	20
Vinyl chloride	ND		25.0	30.1		ug/L		120	65 - 133	0	15

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

Lab Sample ID: 480-146076-7 MSD
Matrix: Water
Analysis Batch: 449099

Client Sample ID: MW-8
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*
Dibromofluoromethane (Surr)	*86*		*75 - 123*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-448984/1-A
Matrix: Water
Analysis Batch: 449147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 19:06	1
PCB-1221	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 19:06	1
PCB-1232	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 19:06	1
PCB-1242	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 19:06	1
PCB-1248	ND		0.50	0.18	ug/L		12/04/18 14:36	12/05/18 19:06	1
PCB-1254	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 19:06	1
PCB-1260	ND		0.50	0.25	ug/L		12/04/18 14:36	12/05/18 19:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*39 - 121*	*12/04/18 14:36*	*12/05/18 19:06*	*1*
Tetrachloro-m-xylene	*59*		*39 - 121*	*12/04/18 14:36*	*12/05/18 19:06*	*1*
DCB Decachlorobiphenyl	*44*		*19 - 120*	*12/04/18 14:36*	*12/05/18 19:06*	*1*
DCB Decachlorobiphenyl	*48*		*19 - 120*	*12/04/18 14:36*	*12/05/18 19:06*	*1*

Lab Sample ID: LCS 480-448984/2-A
Matrix: Water
Analysis Batch: 449147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448984

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	3.63		ug/L		91	62 - 130		
PCB-1260			4.00	3.14		ug/L		79	56 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*99*		*39 - 121*
Tetrachloro-m-xylene	*65*		*39 - 121*
DCB Decachlorobiphenyl	*47*		*19 - 120*
DCB Decachlorobiphenyl	*55*		*19 - 120*

Lab Sample ID: 480-146076-7 MS
Matrix: Water
Analysis Batch: 449147

Client Sample ID: MW-8
Prep Type: Total/NA
Prep Batch: 448984

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		4.00	3.63		ug/L		91	28 - 150		
PCB-1260	ND		4.00	3.35		ug/L		84	25 - 131		

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-146076-7 MS
Matrix: Water
Analysis Batch: 449147

Client Sample ID: MW-8
Prep Type: Total/NA
Prep Batch: 448984

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*104*		*39 - 121*
Tetrachloro-m-xylene	*71*		*39 - 121*
DCB Decachlorobiphenyl	*67*		*19 - 120*
DCB Decachlorobiphenyl	*79*		*19 - 120*

Lab Sample ID: 480-146076-7 MSD
Matrix: Water
Analysis Batch: 449147

Client Sample ID: MW-8
Prep Type: Total/NA
Prep Batch: 448984

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		4.00	3.43		ug/L		86	28 - 150	6	50
PCB-1260	ND		4.00	3.13		ug/L		78	25 - 131	7	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*100*		*39 - 121*
Tetrachloro-m-xylene	*68*		*39 - 121*
DCB Decachlorobiphenyl	*60*		*19 - 120*
DCB Decachlorobiphenyl	*70*		*19 - 120*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
¤	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)

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-146076-1

GC/MS VOA

Analysis Batch: 448834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-146076-9	Trip Blank	Total/NA	Water	8260C	
MB 480-448834/7	Method Blank	Total/NA	Water	8260C	
LCS 480-448834/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 449099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-146076-1	MW-5R	Total/NA	Water	8260C	
480-146076-2	MW-2R	Total/NA	Water	8260C	
480-146076-3	MW-7	Total/NA	Water	8260C	
480-146076-5	MW-4	Total/NA	Water	8260C	
480-146076-6	MW-6	Total/NA	Water	8260C	
480-146076-7	MW-8	Total/NA	Water	8260C	
480-146076-8	DUP-112918	Total/NA	Water	8260C	
MB 480-449099/7	Method Blank	Total/NA	Water	8260C	
LCS 480-449099/4	Lab Control Sample	Total/NA	Water	8260C	
480-146076-7 MS	MW-8	Total/NA	Water	8260C	
480-146076-7 MSD	MW-8	Total/NA	Water	8260C	

GC Semi VOA

Prep Batch: 448984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-146076-1	MW-5R	Total/NA	Water	3510C	
480-146076-2	MW-2R	Total/NA	Water	3510C	
480-146076-3	MW-7	Total/NA	Water	3510C	
480-146076-5	MW-4	Total/NA	Water	3510C	
480-146076-6	MW-6	Total/NA	Water	3510C	
480-146076-7	MW-8	Total/NA	Water	3510C	
480-146076-8	DUP-112918	Total/NA	Water	3510C	
MB 480-448984/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-448984/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-146076-7 MS	MW-8	Total/NA	Water	3510C	
480-146076-7 MSD	MW-8	Total/NA	Water	3510C	

Analysis Batch: 449147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-146076-1	MW-5R	Total/NA	Water	8082A	448984
480-146076-2	MW-2R	Total/NA	Water	8082A	448984
480-146076-3	MW-7	Total/NA	Water	8082A	448984
480-146076-5	MW-4	Total/NA	Water	8082A	448984
480-146076-6	MW-6	Total/NA	Water	8082A	448984
480-146076-7	MW-8	Total/NA	Water	8082A	448984
480-146076-8	DUP-112918	Total/NA	Water	8082A	448984
MB 480-448984/1-A	Method Blank	Total/NA	Water	8082A	448984
LCS 480-448984/2-A	Lab Control Sample	Total/NA	Water	8082A	448984
480-146076-7 MS	MW-8	Total/NA	Water	8082A	448984
480-146076-7 MSD	MW-8	Total/NA	Water	8082A	448984

Client Sample ID: MW-5R
Lab Sample ID: 480-146076-1
Date Collected: 11/29/18 12:05
Matrix: Water
Date Received: 11/30/18 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	449099	12/05/18 11:46	RJF	TAL BUF
Total/NA	Prep	3510C			448984	12/04/18 14:36	AAP	TAL BUF
Total/NA	Analysis	8082A		1	449147	12/05/18 20:57	W1T	TAL BUF

Client Sample ID: MW-2R
Lab Sample ID: 480-146076-2
Date Collected: 11/28/18 13:40
Matrix: Water
Date Received: 11/30/18 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	449099	12/05/18 12:14	RJF	TAL BUF
Total/NA	Prep	3510C			448984	12/04/18 14:36	AAP	TAL BUF
Total/NA	Analysis	8082A		1	449147	12/05/18 21:13	W1T	TAL BUF

Client Sample ID: MW-7
Lab Sample ID: 480-146076-3
Date Collected: 11/29/18 13:00
Matrix: Water
Date Received: 11/30/18 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	449099	12/05/18 12:41	RJF	TAL BUF
Total/NA	Prep	3510C			448984	12/04/18 14:36	AAP	TAL BUF
Total/NA	Analysis	8082A		1	449147	12/05/18 21:29	W1T	TAL BUF

Client Sample ID: MW-4
Lab Sample ID: 480-146076-5
Date Collected: 11/29/18 11:10
Matrix: Water
Date Received: 11/30/18 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	449099	12/05/18 13:09	RJF	TAL BUF
Total/NA	Prep	3510C			448984	12/04/18 14:36	AAP	TAL BUF
Total/NA	Analysis	8082A		1	449147	12/05/18 21:45	W1T	TAL BUF

Client Sample ID: MW-6
Lab Sample ID: 480-146076-6
Date Collected: 11/29/18 14:15
Matrix: Water
Date Received: 11/30/18 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	449099	12/05/18 13:37	RJF	TAL BUF
Total/NA	Prep	3510C			448984	12/04/18 14:36	AAP	TAL BUF
Total/NA	Analysis	8082A		1	449147	12/05/18 22:01	W1T	TAL BUF

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-146076-1

Client Sample ID: MW-8
Date Collected: 11/29/18 09:40
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	449099	12/05/18 14:04	RJF	TAL BUF
Total/NA	Prep	3510C			448984	12/04/18 14:36	AAP	TAL BUF
Total/NA	Analysis	8082A		1	449147	12/05/18 20:09	W1T	TAL BUF

Client Sample ID: DUP-112918
Date Collected: 11/29/18 00:00
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	449099	12/05/18 14:32	RJF	TAL BUF
Total/NA	Prep	3510C			448984	12/04/18 14:36	AAP	TAL BUF
Total/NA	Analysis	8082A		1	449147	12/05/18 22:17	W1T	TAL BUF

Client Sample ID: Trip Blank
Date Collected: 11/29/18 00:00
Date Received: 11/30/18 08:10

Lab Sample ID: 480-146076-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	448834	12/04/18 14:44	RLB	TAL BUF

Laboratory References:
TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: GE Tonawanda

TestAmerica Job ID: 480-146076-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

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-5R	480-146076-1	85	94	90	82
MW-2R	480-146076-2	86	95	91	81
MW-7	480-146076-3	88	100	92	81
MW-4	480-146076-5	88	97	91	80
MW-6	480-146076-6	87	102	90	79
MW-8	480-146076-7	85	96	90	79
DUP-112918	480-146076-8	83	98	89	78
Trip Blank	480-146076-9	101	103	99	100
	MB 480-448834/7	104	105	97	101
	MB 480-449099/7	86	96	91	82
	LCS 480-448834/5	101	102	98	101
	LCS 480-449099/4	86	97	89	81
MW-8 MS	480-146076-7 MS	86	94	93	84
MW-8 MSD	480-146076-7 MSD	86	96	91	84

	QC 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

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N6427.D

Lab ID: LCS 480-448834/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.2	101	73-126	
1,1,2,2-Tetrachloroethane	25.0	24.4	98	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.7	99	61-148	
1,1,2-Trichloroethane	25.0	25.2	101	76-122	
1,1-Dichloroethane	25.0	25.2	101	77-120	
1,1-Dichloroethene	25.0	25.4	102	66-127	
1,2,4-Trichlorobenzene	25.0	24.0	96	79-122	
1,2-Dibromo-3-Chloropropane	25.0	25.4	102	56-134	
1,2-Dichlorobenzene	25.0	24.9	100	80-124	
1,2-Dichloroethane	25.0	25.2	101	75-120	
1,2-Dichloropropane	25.0	25.3	101	76-120	
1,3-Dichlorobenzene	25.0	24.7	99	77-120	
1,4-Dichlorobenzene	25.0	24.7	99	80-120	
2-Butanone (MEK)	125	140	112	57-140	
2-Hexanone	125	136	109	65-127	
4-Methyl-2-pentanone (MIBK)	125	132	105	71-125	
Acetone	125	171	137	56-142	
Benzene	25.0	24.4	97	71-124	
Bromodichloromethane	25.0	26.0	104	80-122	
Bromoform	25.0	27.1	108	61-132	
Bromomethane	25.0	22.5	90	55-144	
Carbon disulfide	25.0	23.1	92	59-134	
Carbon tetrachloride	25.0	25.2	101	72-134	
Chlorobenzene	25.0	24.2	97	80-120	
Chloroethane	25.0	26.2	105	69-136	
Chloroform	25.0	25.0	100	73-127	
Chloromethane	25.0	22.8	91	68-124	
cis-1,2-Dichloroethene	25.0	24.0	96	74-124	
cis-1,3-Dichloropropene	25.0	25.0	100	74-124	
Cyclohexane	25.0	25.9	104	59-135	
1,2-Dibromoethane	25.0	25.7	103	77-120	
Dibromochloromethane	25.0	27.6	110	75-125	
Dichlorodifluoromethane	25.0	27.6	110	59-135	
Ethylbenzene	25.0	25.0	100	77-123	
Isopropylbenzene	25.0	24.7	99	77-122	
Methyl acetate	50.0	47.2	94	74-133	
Methyl tert-butyl ether	25.0	24.5	98	77-120	
Methylcyclohexane	25.0	26.0	104	68-134	
Methylene Chloride	25.0	22.5	90	75-124	
Styrene	25.0	25.5	102	80-120	
Tetrachloroethene	25.0	24.9	99	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N6427.D

Lab ID: LCS 480-448834/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.5	98	80-122	
trans-1,2-Dichloroethene	25.0	24.6	98	73-127	
trans-1,3-Dichloropropene	25.0	25.8	103	80-120	
Trichloroethene	25.0	24.6	98	74-123	
Trichlorofluoromethane	25.0	27.9	111	62-150	
Vinyl chloride	25.0	25.9	104	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P38970.D

Lab ID: LCS 480-449099/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.3	101	73-126	
1,1,2,2-Tetrachloroethane	25.0	28.9	116	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.8	103	61-148	
1,1,2-Trichloroethane	25.0	24.8	99	76-122	
1,1-Dichloroethane	25.0	26.1	104	77-120	
1,1-Dichloroethene	25.0	22.5	90	66-127	
1,2,4-Trichlorobenzene	25.0	22.6	90	79-122	
1,2-Dibromo-3-Chloropropane	25.0	26.5	106	56-134	
1,2-Dichlorobenzene	25.0	24.7	99	80-124	
1,2-Dichloroethane	25.0	25.6	102	75-120	
1,2-Dichloropropane	25.0	25.4	102	76-120	
1,3-Dichlorobenzene	25.0	25.0	100	77-120	
1,4-Dichlorobenzene	25.0	24.6	98	80-120	
2-Butanone (MEK)	125	129	103	57-140	
2-Hexanone	125	131	105	65-127	
4-Methyl-2-pentanone (MIBK)	125	134	107	71-125	
Acetone	125	126	101	56-142	
Benzene	25.0	26.0	104	71-124	
Bromodichloromethane	25.0	25.7	103	80-122	
Bromoform	25.0	21.5	86	61-132	
Bromomethane	25.0	21.5	86	55-144	
Carbon disulfide	25.0	26.9	108	59-134	
Carbon tetrachloride	25.0	24.8	99	72-134	
Chlorobenzene	25.0	23.1	92	80-120	
Chloroethane	25.0	26.4	106	69-136	
Chloroform	25.0	25.5	102	73-127	
Chloromethane	25.0	24.5	98	68-124	
cis-1,2-Dichloroethene	25.0	23.5	94	74-124	
cis-1,3-Dichloropropene	25.0	25.4	102	74-124	
Cyclohexane	25.0	28.3	113	59-135	
1,2-Dibromoethane	25.0	23.9	96	77-120	
Dibromochloromethane	25.0	22.6	90	75-125	
Dichlorodifluoromethane	25.0	21.4	86	59-135	
Ethylbenzene	25.0	25.1	100	77-123	
Isopropylbenzene	25.0	27.9	112	77-122	
Methyl acetate	50.0	49.5	99	74-133	
Methyl tert-butyl ether	25.0	24.6	98	77-120	
Methylcyclohexane	25.0	25.1	100	68-134	
Methylene Chloride	25.0	24.5	98	75-124	
Styrene	25.0	23.7	95	80-120	
Tetrachloroethene	25.0	21.9	88	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P38970.D

Lab ID: LCS 480-449099/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	24.5	98	80-122	
trans-1,2-Dichloroethene	25.0	23.1	92	73-127	
trans-1,3-Dichloropropene	25.0	26.1	105	80-120	
Trichloroethene	25.0	23.7	95	74-123	
Trichlorofluoromethane	25.0	21.8	87	62-150	
Vinyl chloride	25.0	24.4	98	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P38989.D

Lab ID: 480-146076-7 MS Client ID: MW-8 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	ND	27.6	110	73-126	
1,1,2,2-Tetrachloroethane	25.0	ND	33.5	134	76-120	F1
1,1,2-Trichloroethane	25.0	ND	29.1	117	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	ND	21.8	87	61-148	
1,1-Dichloroethane	25.0	ND	28.4	114	77-120	
1,1-Dichloroethene	25.0	ND	23.1	92	66-127	
1,2,4-Trichlorobenzene	25.0	ND	24.9	100	79-122	
1,2-Dibromo-3-Chloropropane	25.0	ND	30.0	120	56-134	
1,2-Dichlorobenzene	25.0	ND	27.4	109	80-124	
1,2-Dichloroethane	25.0	ND	28.7	115	75-120	
1,2-Dichloropropane	25.0	ND	28.6	114	76-120	
1,3-Dichlorobenzene	25.0	ND	27.5	110	77-120	
1,4-Dichlorobenzene	25.0	ND	26.9	108	78-124	
2-Butanone (MEK)	125	ND	129	103	57-140	
2-Hexanone	125	ND	150	120	65-127	
4-Methyl-2-pentanone (MIBK)	125	ND	159	128	71-125	F1
Acetone	125	ND	104	83	56-142	
Benzene	25.0	ND	28.9	116	71-124	
Bromodichloromethane	25.0	ND	28.7	115	80-122	
Bromoform	25.0	ND	26.2	105	61-132	
Bromomethane	25.0	ND	25.2	101	55-144	
Carbon disulfide	25.0	ND	28.8	115	59-134	
Carbon tetrachloride	25.0	ND	26.5	106	72-134	
Chlorobenzene	25.0	ND	26.1	105	80-120	
Dibromochloromethane	25.0	ND	26.7	107	75-125	
Chloroethane	25.0	ND	31.1	124	69-136	
Chloroform	25.0	ND	28.2	113	73-127	
Chloromethane	25.0	ND	30.6	122	68-124	
cis-1,2-Dichloroethene	25.0	ND	25.6	102	74-124	
cis-1,3-Dichloropropene	25.0	ND	27.0	108	74-124	
Cyclohexane	25.0	ND	27.2	109	59-135	
Dichlorodifluoromethane	25.0	ND	19.9	80	59-135	
Ethylbenzene	25.0	ND	28.4	113	77-123	
1,2-Dibromoethane	25.0	ND	27.2	109	77-120	
Isopropylbenzene	25.0	ND	30.1	120	77-122	
Methyl acetate	50.0	ND	49.8	100	74-133	
Methyl tert-butyl ether	25.0	ND	28.7	115	77-120	
Methylcyclohexane	25.0	ND	22.9	92	68-134	
Methylene Chloride	25.0	ND	27.8	111	75-124	
Styrene	25.0	ND	26.7	107	80-120	
Tetrachloroethene	25.0	ND	23.8	95	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P38989.D

Lab ID: 480-146076-7 MS Client ID: MW-8 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	25.0	ND	27.5	110	80-122	
trans-1,2-Dichloroethene	25.0	ND	24.6	99	73-127	
trans-1,3-Dichloropropene	25.0	ND	29.5	118	80-120	
Trichloroethene	25.0	ND	25.4	102	74-123	
Trichlorofluoromethane	25.0	ND	26.0	104	62-150	
Vinyl chloride	25.0	ND	30.1	120	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P38990.D

Lab ID: 480-146076-7 MSD Client ID: MW-8 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	29.4	118	6	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	33.0	132	1	15	76-120	F1
1,1,2-Trichloroethane	25.0	28.8	115	1	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0	100	14	20	61-148	
1,1-Dichloroethane	25.0	29.8	119	5	20	77-120	
1,1-Dichloroethene	25.0	26.2	105	13	16	66-127	
1,2,4-Trichlorobenzene	25.0	25.7	103	3	20	79-122	
1,2-Dibromo-3-Chloropropane	25.0	31.2	125	4	15	56-134	
1,2-Dichlorobenzene	25.0	27.8	111	2	20	80-124	
1,2-Dichloroethane	25.0	29.0	116	1	20	75-120	
1,2-Dichloropropane	25.0	29.0	116	1	20	76-120	
1,3-Dichlorobenzene	25.0	27.8	111	1	20	77-120	
1,4-Dichlorobenzene	25.0	27.3	109	1	20	78-124	
2-Butanone (MEK)	125	135	108	5	20	57-140	
2-Hexanone	125	150	120	0	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	159	127	0	35	71-125	F1
Acetone	125	102	82	2	15	56-142	
Benzene	25.0	29.9	120	3	13	71-124	
Bromodichloromethane	25.0	29.0	116	1	15	80-122	
Bromoform	25.0	25.2	101	4	15	61-132	
Bromomethane	25.0	26.2	105	4	15	55-144	
Carbon disulfide	25.0	31.2	125	8	15	59-134	
Carbon tetrachloride	25.0	27.2	109	3	15	72-134	
Chlorobenzene	25.0	26.6	106	2	25	80-120	
Dibromochloromethane	25.0	26.4	106	1	15	75-125	
Chloroethane	25.0	32.2	129	3	15	69-136	
Chloroform	25.0	29.2	117	4	20	73-127	
Chloromethane	25.0	30.0	120	2	15	68-124	
cis-1,2-Dichloroethene	25.0	26.5	106	3	15	74-124	
cis-1,3-Dichloropropene	25.0	27.4	110	2	15	74-124	
Cyclohexane	25.0	28.1	112	3	20	59-135	
Dichlorodifluoromethane	25.0	20.4	82	2	20	59-135	
Ethylbenzene	25.0	28.9	116	2	15	77-123	
1,2-Dibromoethane	25.0	27.1	108	1	15	77-120	
Isopropylbenzene	25.0	30.9	124	3	20	77-122	F1
Methyl acetate	50.0	51.7	103	4	20	74-133	
Methyl tert-butyl ether	25.0	28.0	112	3	37	77-120	
Methylcyclohexane	25.0	24.1	96	5	20	68-134	
Methylene Chloride	25.0	27.9	112	0	15	75-124	
Styrene	25.0	27.9	111	4	20	80-120	
Tetrachloroethene	25.0	24.8	99	4	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P38990.D

Lab ID: 480-146076-7 MSD Client ID: MW-8 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	25.0	26.3	105	4	15	80-122	
trans-1,2-Dichloroethene	25.0	26.3	105	6	20	73-127	
trans-1,3-Dichloropropene	25.0	28.0	112	5	15	80-120	
Trichloroethene	25.0	26.4	106	4	16	74-123	
Trichlorofluoromethane	25.0	26.7	107	3	20	62-150	
Vinyl chloride	25.0	30.1	120	0	15	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab File ID: N6429.D Lab Sample ID: MB 480-448834/7

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

Instrument ID: HP5973N Date Analyzed: 12/04/2018 10:30

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 480-448834/5	N6427.D	12/04/2018 09:34
Trip Blank	480-146076-9	N6438.D	12/04/2018 14:44

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab File ID: P38972.D Lab Sample ID: MB 480-449099/7

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

Instrument ID: HP5973P Date Analyzed: 12/05/2018 11:03

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 480-449099/4	P38970.D	12/05/2018 10:08
MW-5R	480-146076-1	P38973.D	12/05/2018 11:46
MW-2R	480-146076-2	P38974.D	12/05/2018 12:14
MW-7	480-146076-3	P38975.D	12/05/2018 12:41
MW-4	480-146076-5	P38976.D	12/05/2018 13:09
MW-6	480-146076-6	P38977.D	12/05/2018 13:37
MW-8	480-146076-7	P38978.D	12/05/2018 14:04
DUP-112918	480-146076-8	P38979.D	12/05/2018 14:32
MW-8 MS	480-146076-7 MS	P38989.D	12/05/2018 19:08
MW-8 MSD	480-146076-7 MSD	P38990.D	12/05/2018 19:35

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab File ID: N6195.D BFB Injection Date: 11/27/2018

Instrument ID: HP5973N BFB Injection Time: 13:37

Analysis Batch No.: 447647

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	31.0	
75	30.0 - 60.0 % of mass 95	47.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	96.4	
175	5.0 - 9.0 % of mass 174	8.2	(8.5) 1
176	95.0 - 101.0 % of mass 174	95.6	(99.1) 1
177	5.0 - 9.0 % of mass 176	6.5	(6.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-447647/6	N6197.D	11/27/2018	14:34
	IC 480-447647/7	N6198.D	11/27/2018	15:01
	IC 480-447647/8	N6199.D	11/27/2018	15:28
	IC 480-447647/9	N6200.D	11/27/2018	15:55
	IC 480-447647/10	N6201.D	11/27/2018	16:21
	ICIS 480-447647/11	N6202.D	11/27/2018	16:48
	IC 480-447647/12	N6203.D	11/27/2018	17:15
	IC 480-447647/13	N6204.D	11/27/2018	17:43

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab File ID: N6424.D BFB Injection Date: 12/04/2018

Instrument ID: HP5973N BFB Injection Time: 08:16

Analysis Batch No.: 448834

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.8	
75	30.0 - 60.0 % of mass 95	48.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	102.8	
175	5.0 - 9.0 % of mass 174	8.7	(8.5) 1
176	95.0 - 101.0 % of mass 174	99.5	(96.8) 1
177	5.0 - 9.0 % of mass 176	6.7	(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 480-448834/3	N6425.D	12/04/2018	08:40
	LCS 480-448834/5	N6427.D	12/04/2018	09:34
	MB 480-448834/7	N6429.D	12/04/2018	10:30
Trip Blank	480-146076-9	N6438.D	12/04/2018	14:44

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab File ID: P38542.D BFB Injection Date: 11/23/2018

Instrument ID: HP5973P BFB Injection Time: 13:27

Analysis Batch No.: 447085

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.9
75	30.0 - 60.0 % of mass 95	50.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.5 (0.6) 1
174	50.0 - 120.00 % of mass 95	86.8
175	5.0 - 9.0 % of mass 174	6.9 (7.9) 1
176	95.0 - 101.0 % of mass 174	86.9 (100.2) 1
177	5.0 - 9.0 % of mass 176	6.1 (7.1) 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 480-447085/7	P38544.D	11/23/2018	14:22
	IC 480-447085/8	P38545.D	11/23/2018	14:49
	IC 480-447085/9	P38546.D	11/23/2018	15:17
	IC 480-447085/10	P38547.D	11/23/2018	15:44
	ICIS 480-447085/11	P38548.D	11/23/2018	16:12
	IC 480-447085/12	P38549.D	11/23/2018	16:39
	IC 480-447085/13	P38550.D	11/23/2018	17:06

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab File ID: P38967.D BFB Injection Date: 12/05/2018

Instrument ID: HP5973P BFB Injection Time: 08:46

Analysis Batch No.: 449099

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.3	
75	30.0 - 60.0 % of mass 95	50.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.0	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	74.6	
175	5.0 - 9.0 % of mass 174	6.6	(8.8) 1
176	95.0 - 101.0 % of mass 174	73.7	(98.8) 1
177	5.0 - 9.0 % of mass 176	5.7	(7.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-449099/2	P38968.D	12/05/2018	09:13
	LCS 480-449099/4	P38970.D	12/05/2018	10:08
	MB 480-449099/7	P38972.D	12/05/2018	11:03
MW-5R	480-146076-1	P38973.D	12/05/2018	11:46
MW-2R	480-146076-2	P38974.D	12/05/2018	12:14
MW-7	480-146076-3	P38975.D	12/05/2018	12:41
MW-4	480-146076-5	P38976.D	12/05/2018	13:09
MW-6	480-146076-6	P38977.D	12/05/2018	13:37
MW-8	480-146076-7	P38978.D	12/05/2018	14:04
DUP-112918	480-146076-8	P38979.D	12/05/2018	14:32
MW-8 MS	480-146076-7 MS	P38989.D	12/05/2018	19:08
MW-8 MSD	480-146076-7 MSD	P38990.D	12/05/2018	19:35

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Sample No.: ICIS 480-447647/11 Date Analyzed: 11/27/2018 16:48

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N6202.D Heated Purge: (Y/N) N

Calibration ID: 35443

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		171850	5.55	694112	8.55	360486	10.93
UPPER LIMIT		343700	6.05	1388224	9.05	720972	11.43
LOWER LIMIT		85925	5.05	347056	8.05	180243	10.43
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-448834/3		167686	5.54	697945	8.55	368949	10.93

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Sample No.: CCVIS 480-448834/3 Date Analyzed: 12/04/2018 08:40

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N6425.D Heated Purge: (Y/N) N

Calibration ID: 35445

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		167686	5.54	697945	8.55	368949	10.93
UPPER LIMIT		335372	6.04	1395890	9.05	737898	11.43
LOWER LIMIT		83843	5.04	348973	8.05	184475	10.43
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-448834/5		173034	5.54	689161	8.55	369744	10.92
MB 480-448834/7		159171	5.55	661806	8.55	351850	10.93
480-146076-9	Trip Blank	158890	5.54	625813	8.55	331424	10.92

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Sample No.: ICIS 480-447085/11 Date Analyzed: 11/23/2018 16:12

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

Lab File ID (Standard): P38548.D Heated Purge: (Y/N) N

Calibration ID: 35427

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		186442	10.33	379037	14.28	405664	17.25
UPPER LIMIT		372884	10.83	758074	14.78	811328	17.75
LOWER LIMIT		93221	9.83	189519	13.78	202832	16.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-449099/2		185299	10.33	375404	14.28	353940	17.25

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Sample No.: CCVIS 480-449099/2 Date Analyzed: 12/05/2018 09:13

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

Lab File ID (Standard): P38968.D Heated Purge: (Y/N) N

Calibration ID: 35425

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		185299	10.33	375404	14.28	353940	17.25
UPPER LIMIT		370598	10.83	750808	14.78	707880	17.75
LOWER LIMIT		92650	9.83	187702	13.78	176970	16.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-449099/4		187567	10.34	382834	14.29	355743	17.24
MB 480-449099/7		173367	10.34	353085	14.28	311204	17.25
480-146076-1	MW-5R	175198	10.34	349665	14.29	308221	17.25
480-146076-2	MW-2R	168150	10.34	341220	14.29	304723	17.24
480-146076-3	MW-7	165523	10.33	338642	14.28	297605	17.25
480-146076-5	MW-4	161231	10.34	332154	14.28	295279	17.25
480-146076-6	MW-6	159412	10.34	330233	14.29	288980	17.25
480-146076-7	MW-8	161199	10.33	330018	14.29	286050	17.24
480-146076-8	DUP-112918	162020	10.34	328503	14.28	287902	17.24
480-146076-7 MS	MW-8 MS	166525	10.33	330415	14.29	317359	17.25
480-146076-7 MSD	MW-8 MSD	169222	10.34	336507	14.28	323654	17.25

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

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

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-5R | Lab Sample ID: 480-146076-1

Matrix: Water | Lab File ID: P38973.D

Analysis Method: 8260C | Date Collected: 11/29/2018 12:05

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 11:46

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	0.24	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-5R | Lab Sample ID: 480-146076-1

Matrix: Water | Lab File ID: P38973.D

Analysis Method: 8260C | Date Collected: 11/29/2018 12:05

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 11:46

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	82		73-120
1868-53-7	Dibromofluoromethane (Surr)	85		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38973.D
Lims ID: 480-146076-D-1
Client ID: MW-5R
Sample Type: Client
Inject. Date: 05-Dec-2018 11:46:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-146076-D-1
Misc. Info.: 480-0077001-009
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Dec-2018 08:25:41 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: farrellr Date: 06-Dec-2018 08:25:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.336	10.336	0.000	97	175198	25.0	
* 2 Chlorobenzene-d5	82	14.285	14.285	-0.001	89	349665	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.241	0.006	97	308221	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.533	9.539	-0.006	91	215043	21.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.990	-0.001	0	136770	23.4	
$ 5 Toluene-d8 (Surr)	98	12.320	12.319	0.000	95	755518	22.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.787	15.781	0.006	90	224571	20.4	
10 Dichlorodifluoromethane	85		4.253				ND	
11 Chloromethane	50		4.679				ND	
17 Vinyl chloride	62		4.855				ND	
12 Bromomethane	94		5.476				ND	
13 Chloroethane	64		5.615				ND	
14 Trichlorofluoromethane	101		5.962				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.631				ND	
25 1,1-Dichloroethene	96		6.723				ND	
24 Acetone	43		6.802				ND	Ua
27 Carbon disulfide	76	7.124	7.124	0.006	94	7119	0.2382	M
30 Methyl acetate	43		7.167				ND	
31 Methylene Chloride	84		7.392				ND	
32 Methyl tert-butyl ether	73		7.599				ND	
35 trans-1,2-Dichloroethene	96		7.696				ND	
40 1,1-Dichloroethane	63		8.244				ND	
44 2-Butanone (MEK)	43		8.925				ND	
43 cis-1,2-Dichloroethene	96		8.961				ND	
49 Chloroform	83		9.320				ND	
52 1,1,1-Trichloroethane	97		9.558				ND	
54 Cyclohexane	56		9.600				ND	
55 Carbon tetrachloride	117		9.752				ND	
57 Benzene	78		10.026				ND	
60 1,2-Dichloroethane	62		10.081				ND	
62 Trichloroethene	95		10.787				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.981				ND	
63 1,2-Dichloropropane	63		11.121				ND	
70 Dichlorobromomethane	83		11.462				ND	
73 cis-1,3-Dichloropropene	75		11.991				ND	
75 4-Methyl-2-pentanone (MIBK	43		12.094				ND	
76 Toluene	92		12.411				ND	
78 trans-1,3-Dichloropropene	75		12.703				ND	
79 1,1,2-Trichloroethane	83		12.995				ND	
80 Tetrachloroethene	166		13.141				ND	
83 2-Hexanone	43		13.183				ND	
81 Chlorodibromomethane	129		13.567				ND	
85 Ethylene Dibromide	107		13.767				ND	
87 Chlorobenzene	112		14.327				ND	
89 Ethylbenzene	91		14.370				ND	Ua
90 m-Xylene & p-Xylene	106		14.504				ND	
93 o-Xylene	106		15.057				ND	
94 Styrene	104		15.082				ND	
92 Bromoform	173		15.465				ND	
95 Isopropylbenzene	105		15.483				ND	
97 1,1,2,2-Tetrachloroethane	83		15.951				ND	
110 1,3-Dichlorobenzene	146		17.174				ND	
111 1,4-Dichlorobenzene	146		17.278				ND	
116 1,2-Dichlorobenzene	146		17.770				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.805				ND	
119 1,2,4-Trichlorobenzene	180		19.906				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

P 8260 IS_00341	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added:	1.25	Units: uL	Run Reagent

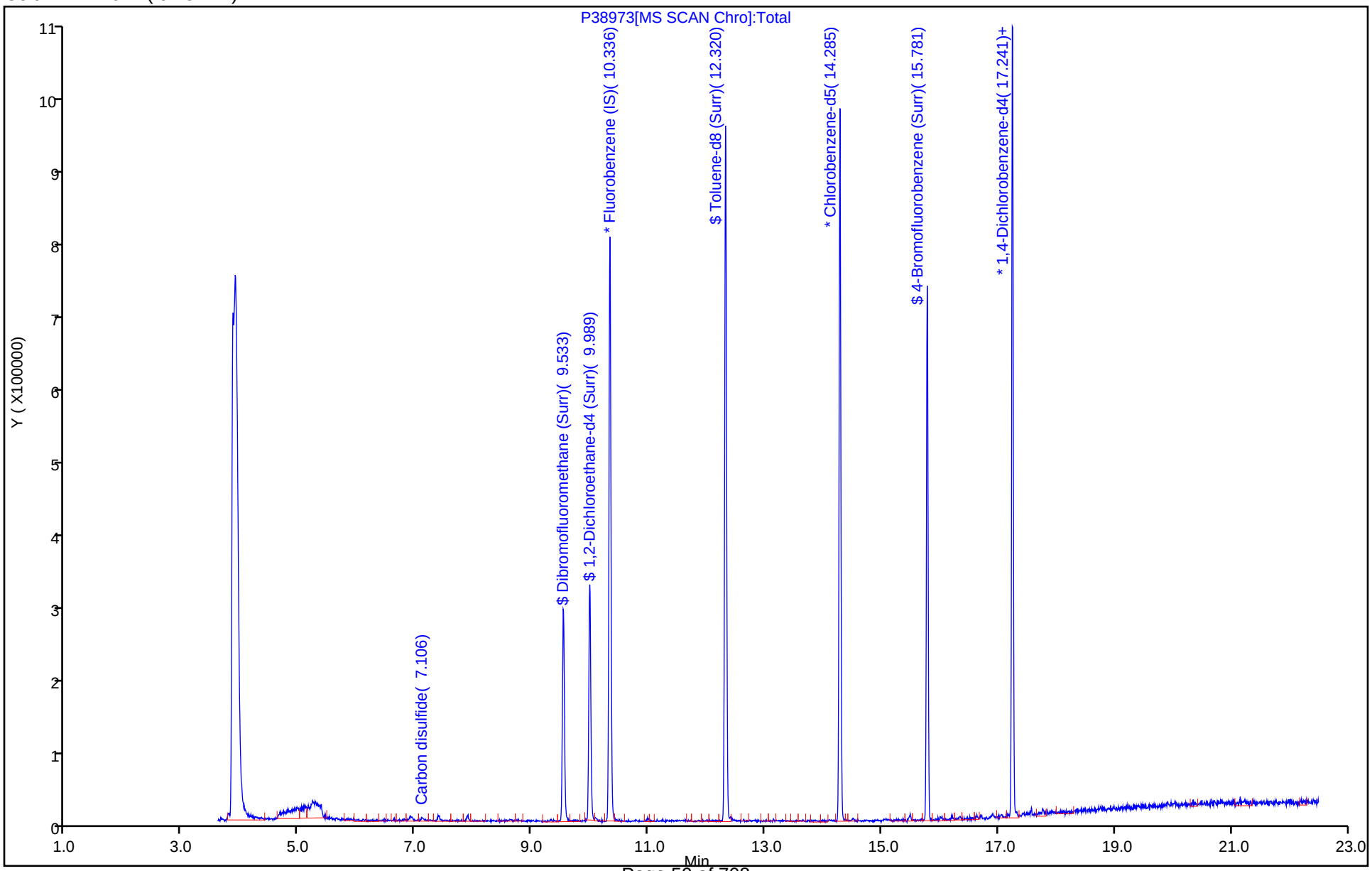
Report Date: 06-Dec-2018 08:25:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38973.D

Injection Date:	05-Dec-2018 11:46:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-146076-D-1	Lab Sample ID:	480-146076-1	Worklist Smp#:	9
Client ID:	MW-5R				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



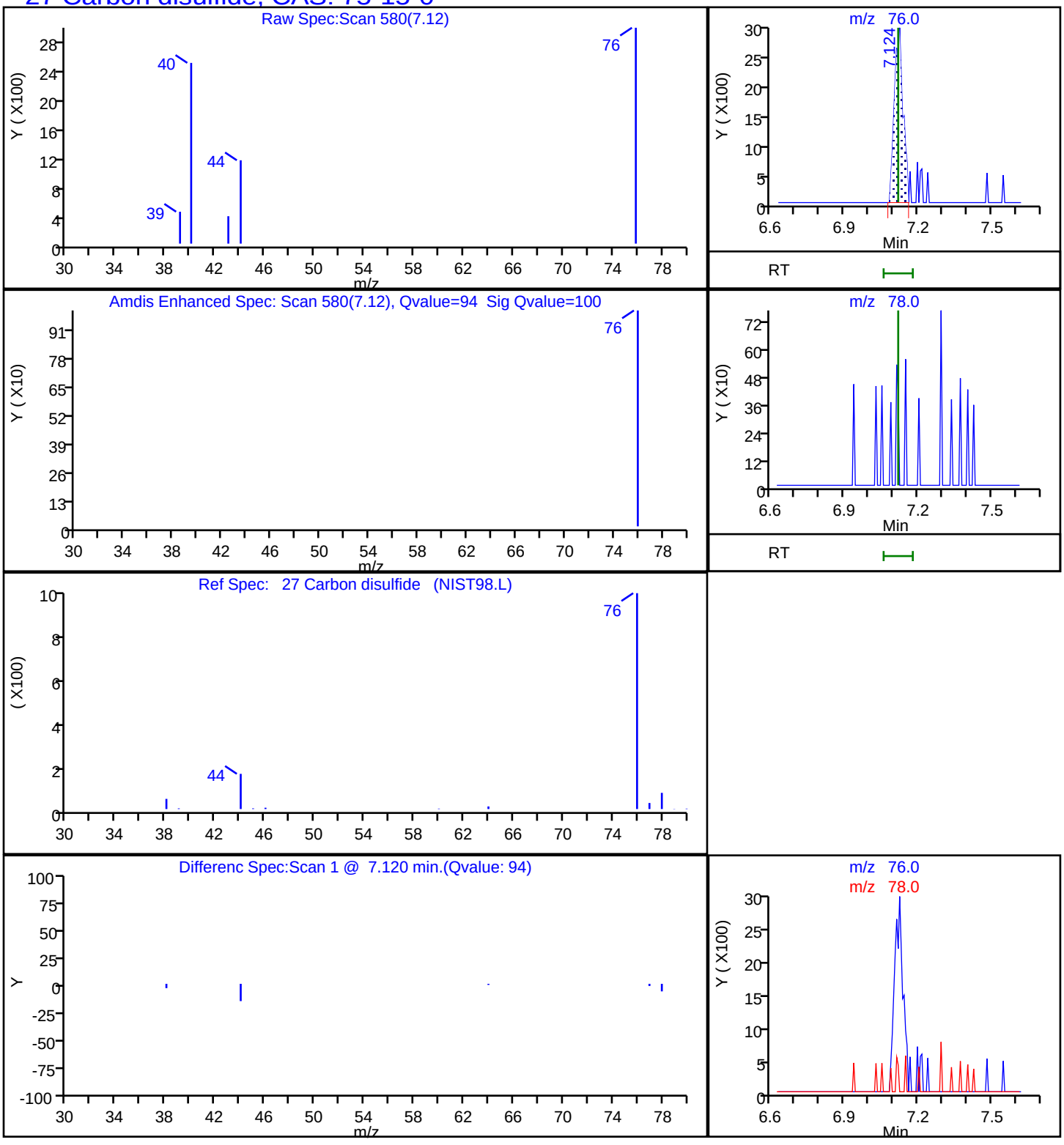
Report Date: 06-Dec-2018 08:25:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38973.D

Injection Date:	05-Dec-2018 11:46:30	Instrument ID:	HP5973P
Lims ID:	480-146076-D-1	Lab Sample ID:	480-146076-1
Client ID:	MW-5R		
Operator ID:	RF	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

27 Carbon disulfide, CAS: 75-15-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

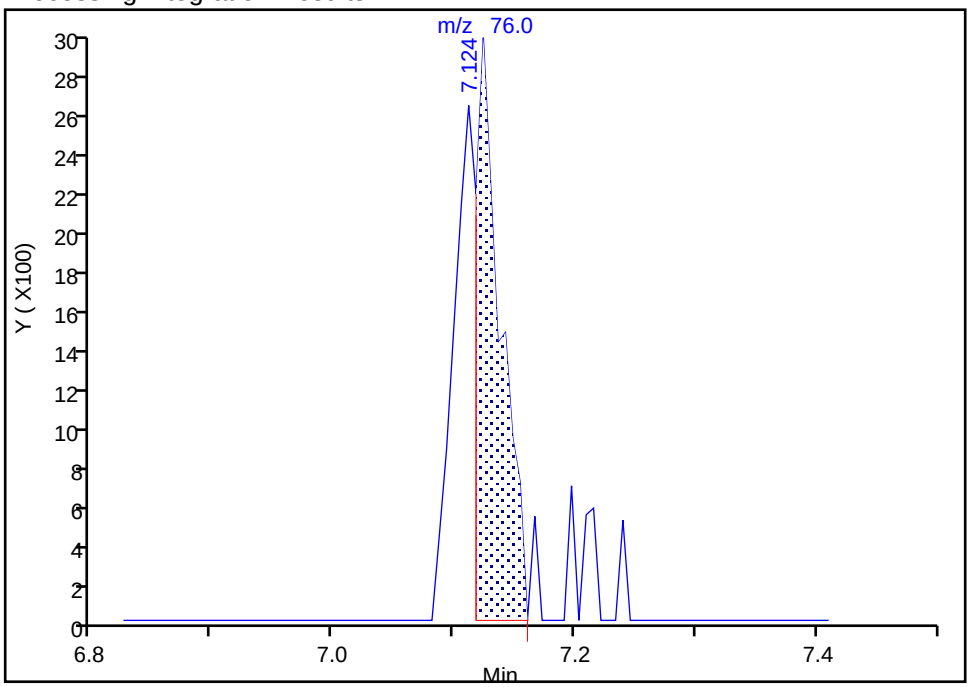
Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38973.D				
Injection Date:	05-Dec-2018 11:46:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-1	Lab Sample ID:	480-146076-1		
Client ID:	MW-5R				
Operator ID:	RF	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

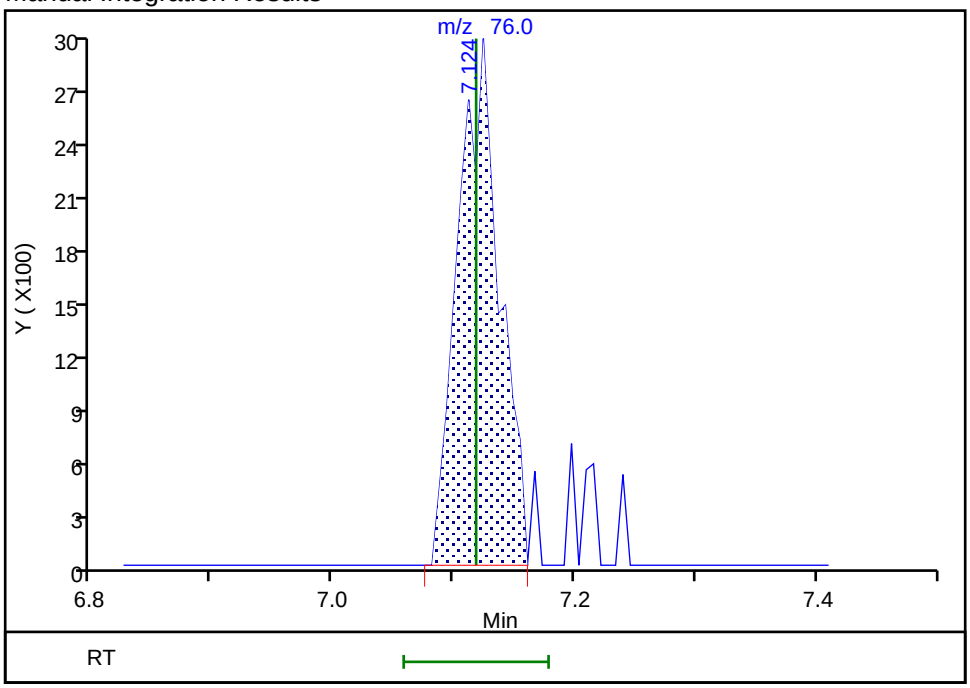
Processing Integration Results

RT: 7.12
Area: 4350
Amount: 0.145530
Amount Units: ug/L



Manual Integration Results

RT: 7.12
Area: 7119
Amount: 0.238167
Amount Units: ug/L



Reviewer: farrellr, 06-Dec-2018 08:24:23

Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-2R | Lab Sample ID: 480-146076-2

Matrix: Water | Lab File ID: P38974.D

Analysis Method: 8260C | Date Collected: 11/28/2018 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 12:14

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-2R | Lab Sample ID: 480-146076-2

Matrix: Water | Lab File ID: P38974.D

Analysis Method: 8260C | Date Collected: 11/28/2018 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 12:14

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	91		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	81		73-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38974.D
Lims ID: 480-146076-D-2
Client ID: MW-2R
Sample Type: Client
Inject. Date: 05-Dec-2018 12:14:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-146076-D-2
Misc. Info.: 480-0077001-010
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Dec-2018 08:27:06 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: farrellr Date: 06-Dec-2018 08:27:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.336	10.336	0.000	98	168150	25.0	
* 2 Chlorobenzene-d5	82	14.285	14.285	0.000	90	341220	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.241	17.241	0.000	97	304723	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	91	208358	21.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.990	9.990	0.000	0	133881	23.9	
$ 5 Toluene-d8 (Surr)	98	12.320	12.319	0.000	95	747511	22.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	86	218379	20.4	
10 Dichlorodifluoromethane	85		4.253				ND	
11 Chloromethane	50		4.679				ND	
17 Vinyl chloride	62		4.855				ND	
12 Bromomethane	94		5.476				ND	
13 Chloroethane	64		5.615				ND	
14 Trichlorofluoromethane	101		5.962				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.631				ND	
25 1,1-Dichloroethene	96		6.723				ND	
24 Acetone	43		6.802				ND	
27 Carbon disulfide	76		7.118				ND	U
30 Methyl acetate	43		7.167				ND	
31 Methylene Chloride	84		7.392				ND	
32 Methyl tert-butyl ether	73		7.599				ND	
35 trans-1,2-Dichloroethene	96		7.696				ND	
40 1,1-Dichloroethane	63		8.244				ND	
44 2-Butanone (MEK)	43		8.925				ND	
43 cis-1,2-Dichloroethene	96		8.961				ND	
49 Chloroform	83		9.320				ND	
52 1,1,1-Trichloroethane	97		9.558				ND	
54 Cyclohexane	56		9.600				ND	
55 Carbon tetrachloride	117		9.752				ND	
57 Benzene	78		10.026				ND	
60 1,2-Dichloroethane	62		10.081				ND	
62 Trichloroethene	95		10.787				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.981				ND	
63 1,2-Dichloropropane	63		11.121				ND	
70 Dichlorobromomethane	83		11.462				ND	
73 cis-1,3-Dichloropropene	75		11.991				ND	
75 4-Methyl-2-pentanone (MIBK	43		12.094				ND	
76 Toluene	92		12.411				ND	
78 trans-1,3-Dichloropropene	75		12.703				ND	
79 1,1,2-Trichloroethane	83		12.995				ND	
80 Tetrachloroethene	166		13.141				ND	
83 2-Hexanone	43		13.183				ND	
81 Chlorodibromomethane	129		13.567				ND	
85 Ethylene Dibromide	107		13.767				ND	
87 Chlorobenzene	112		14.327				ND	
89 Ethylbenzene	91		14.370				ND	
90 m-Xylene & p-Xylene	106		14.504				ND	
93 o-Xylene	106		15.057				ND	
94 Styrene	104		15.082				ND	
92 Bromoform	173		15.465				ND	
95 Isopropylbenzene	105		15.483				ND	
97 1,1,2,2-Tetrachloroethane	83		15.951				ND	
110 1,3-Dichlorobenzene	146		17.174				ND	
111 1,4-Dichlorobenzene	146		17.278				ND	
116 1,2-Dichlorobenzene	146		17.770				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.805				ND	
119 1,2,4-Trichlorobenzene	180		19.906				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

P 8260 IS_00341	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added:	1.25	Units: uL	Run Reagent

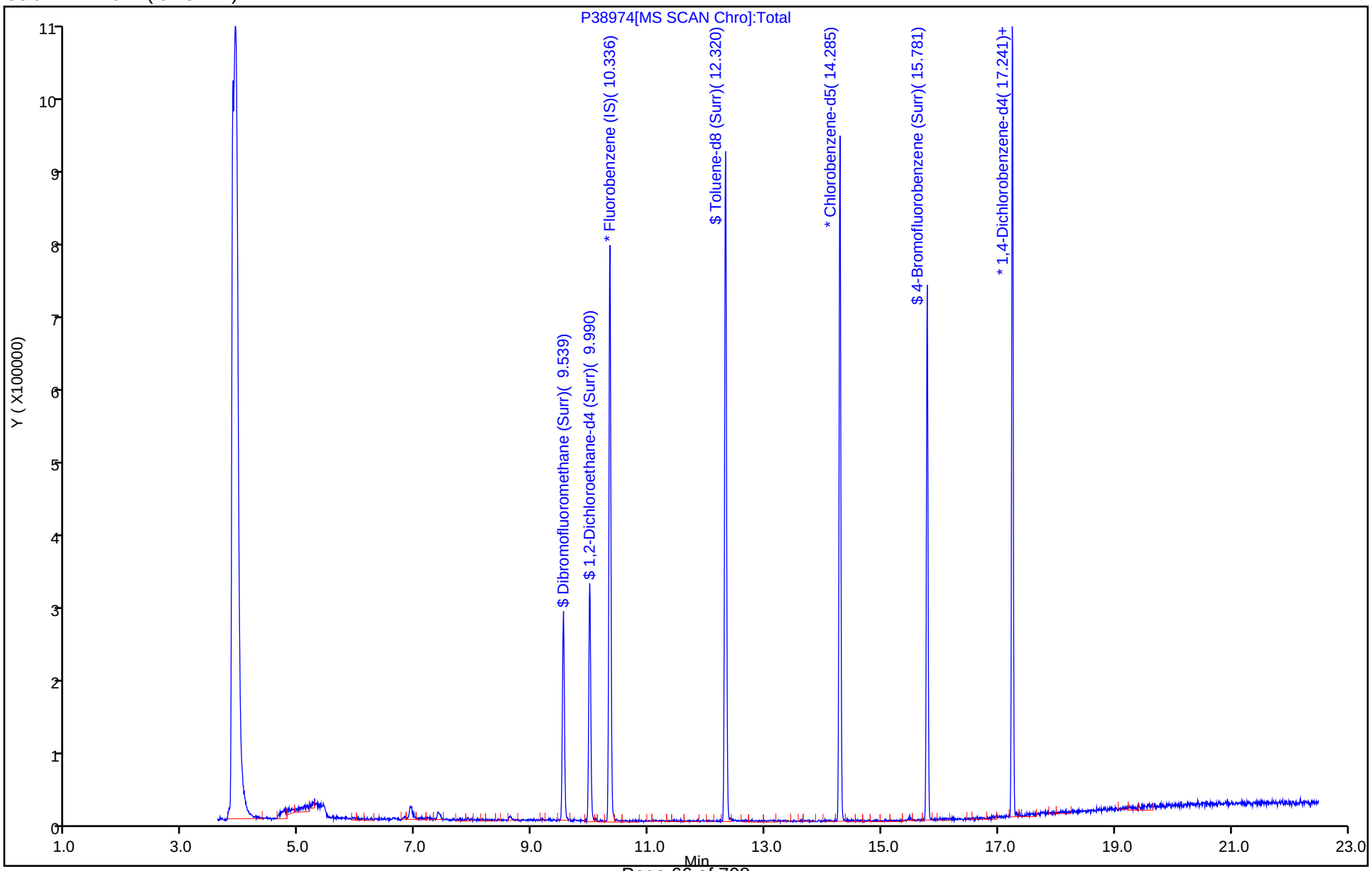
Report Date: 06-Dec-2018 08:27:07 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38974.D

Injection Date:	05-Dec-2018 12:14:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-146076-D-2	Lab Sample ID:	480-146076-2	Worklist Smp#:	10
Client ID:	MW-2R				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



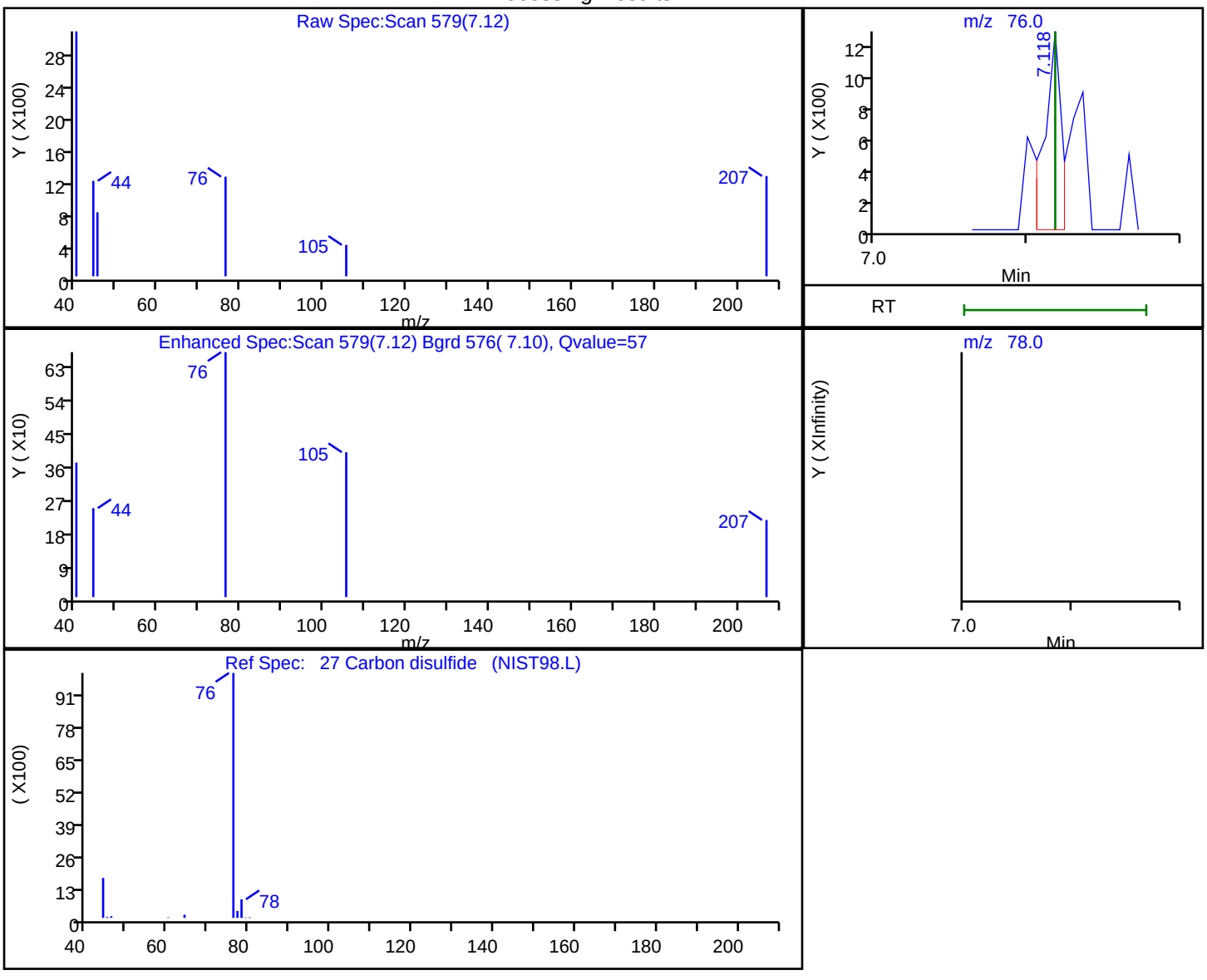
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38974.D				
Injection Date:	05-Dec-2018 12:14:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-2	Lab Sample ID:	480-146076-2		
Client ID:	MW-2R				
Operator ID:	RF	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

27 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
7.12	76.00	980	0.034160
7.12	78.00	0	

Reviewer: farrellr, 06-Dec-2018 08:26:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-7 | Lab Sample ID: 480-146076-3

Matrix: Water | Lab File ID: P38975.D

Analysis Method: 8260C | Date Collected: 11/29/2018 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 12:41

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-7 | Lab Sample ID: 480-146076-3

Matrix: Water | Lab File ID: P38975.D

Analysis Method: 8260C | Date Collected: 11/29/2018 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 12:41

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	92		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	81		73-120
1868-53-7	Dibromofluoromethane (Surr)	88		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38975.D
Lims ID: 480-146076-D-3
Client ID: MW-7
Sample Type: Client
Inject. Date: 05-Dec-2018 12:41:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-146076-D-3
Misc. Info.: 480-0077001-011
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Dec-2018 08:32:30 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: farrellr Date: 06-Dec-2018 08:32:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.330	10.336	-0.006	98	165523	25.0	
* 2 Chlorobenzene-d5	82	14.284	14.285	-0.001	90	338642	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.241	0.006	98	297605	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.533	9.539	-0.006	91	210509	22.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.995	9.990	0.005	0	138465	25.1	
$ 5 Toluene-d8 (Surr)	98	12.319	12.319	-0.001	94	745882	22.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	85	215386	20.2	
10 Dichlorodifluoromethane	85		4.253				ND	
11 Chloromethane	50	4.709	4.679	0.030	1	3484	0.1830	
17 Vinyl chloride	62		4.855				ND	
12 Bromomethane	94		5.476				ND	
13 Chloroethane	64		5.615				ND	
14 Trichlorofluoromethane	101		5.962				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.631				ND	
25 1,1-Dichloroethene	96		6.723				ND	
24 Acetone	43		6.802				ND	Ua
27 Carbon disulfide	76		7.118				ND	U
30 Methyl acetate	43		7.167				ND	
31 Methylene Chloride	84		7.392				ND	
32 Methyl tert-butyl ether	73		7.599				ND	
35 trans-1,2-Dichloroethene	96		7.696				ND	
40 1,1-Dichloroethane	63		8.244				ND	
44 2-Butanone (MEK)	43		8.925				ND	
43 cis-1,2-Dichloroethene	96		8.961				ND	
49 Chloroform	83		9.320				ND	
52 1,1,1-Trichloroethane	97		9.558				ND	
54 Cyclohexane	56		9.600				ND	
55 Carbon tetrachloride	117		9.752				ND	
57 Benzene	78		10.026				ND	
60 1,2-Dichloroethane	62		10.081				ND	
62 Trichloroethene	95		10.787				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.981				ND	
63 1,2-Dichloropropane	63		11.121				ND	
70 Dichlorobromomethane	83		11.462				ND	
73 cis-1,3-Dichloropropene	75		11.991				ND	
75 4-Methyl-2-pentanone (MIBK	43		12.094				ND	
76 Toluene	92		12.411				ND	
78 trans-1,3-Dichloropropene	75		12.703				ND	
79 1,1,2-Trichloroethane	83		12.995				ND	
80 Tetrachloroethene	166		13.141				ND	
83 2-Hexanone	43		13.183				ND	
81 Chlorodibromomethane	129		13.567				ND	
85 Ethylene Dibromide	107		13.767				ND	
87 Chlorobenzene	112		14.327				ND	
89 Ethylbenzene	91		14.370				ND	
90 m-Xylene & p-Xylene	106		14.504				ND	
93 o-Xylene	106		15.057				ND	
94 Styrene	104		15.082				ND	
92 Bromoform	173		15.465				ND	
95 Isopropylbenzene	105		15.483				ND	
97 1,1,2,2-Tetrachloroethane	83		15.951				ND	
110 1,3-Dichlorobenzene	146		17.174				ND	
111 1,4-Dichlorobenzene	146		17.278				ND	U
116 1,2-Dichlorobenzene	146		17.770				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.805				ND	
119 1,2,4-Trichlorobenzene	180		19.906				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

P 8260 IS_00341	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added:	1.25	Units: uL	Run Reagent

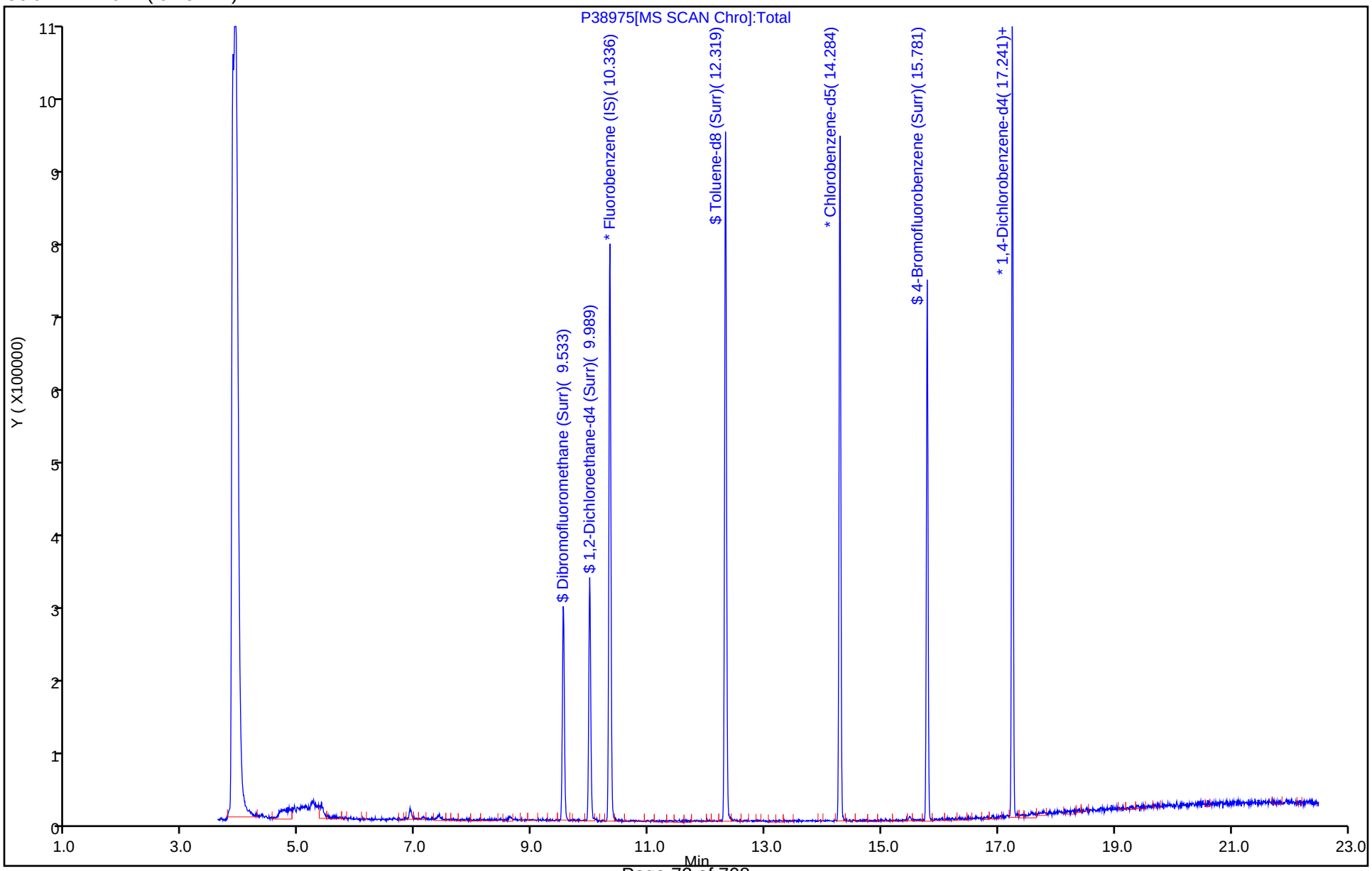
Report Date: 06-Dec-2018 08:32:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38975.D

Injection Date:	05-Dec-2018 12:41:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-146076-D-3	Lab Sample ID:	480-146076-3	Worklist Smp#:	11
Client ID:	MW-7				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



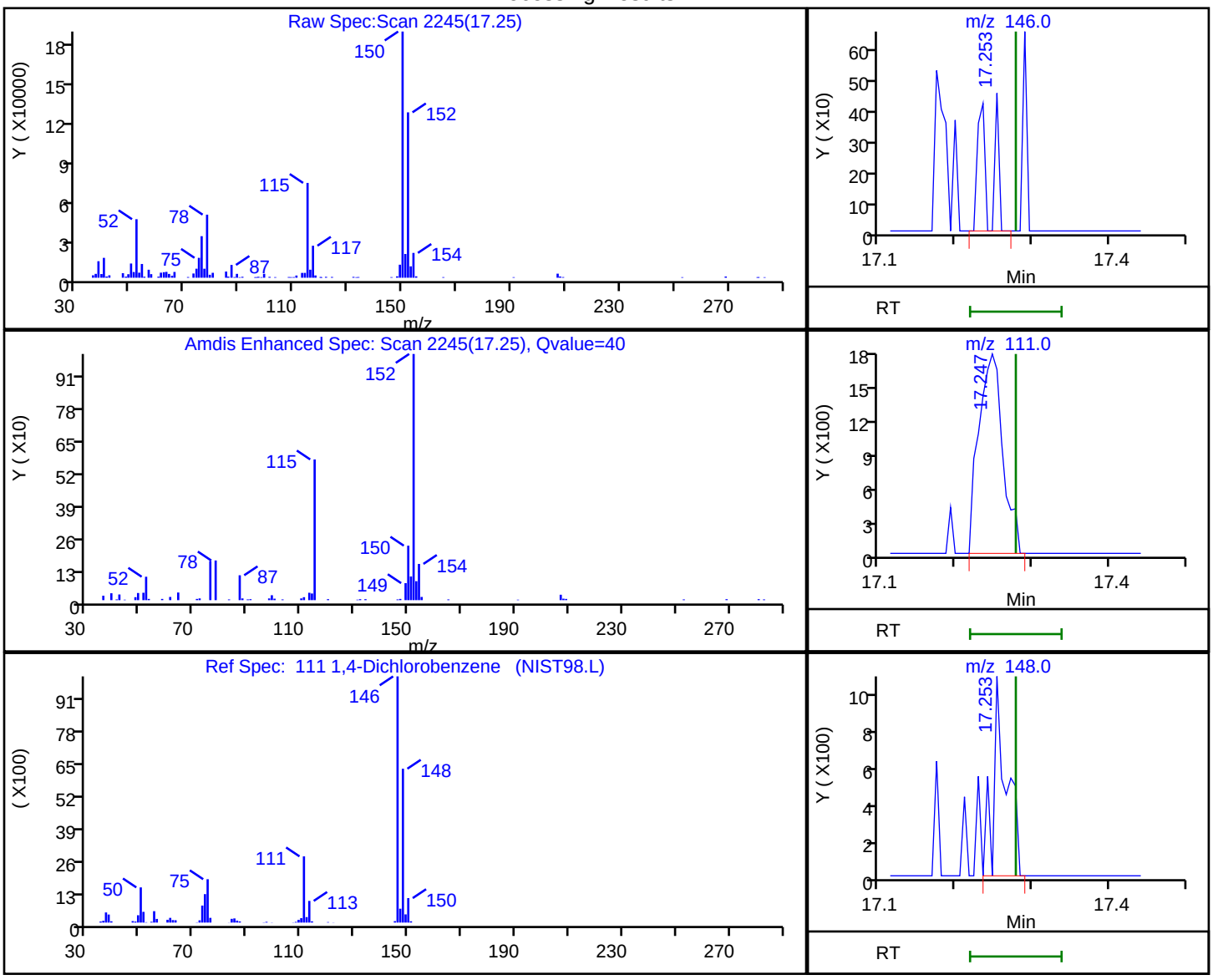
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38975.D				
Injection Date:	05-Dec-2018 12:41:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-3	Lab Sample ID:	480-146076-3		
Client ID:	MW-7				
Operator ID:	RF	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

111 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
17.25	146.00	451	0.022691
17.25	111.00	3924	
17.25	148.00	1299	

Reviewer: farrellr, 06-Dec-2018 08:32:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

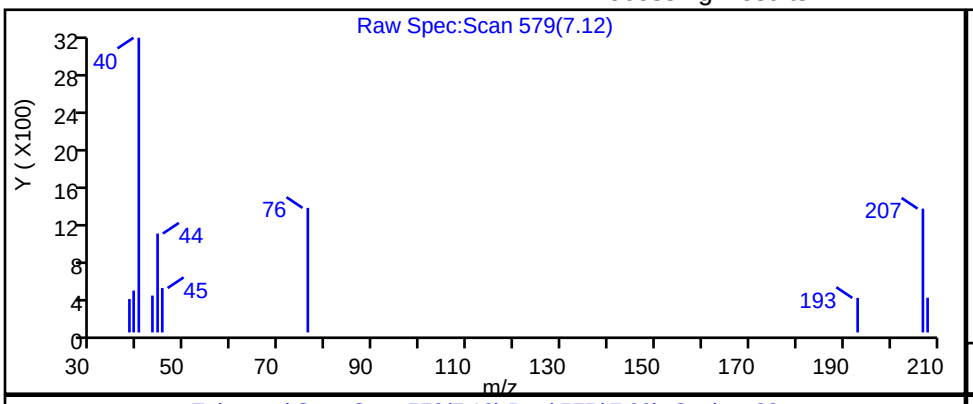
User Disabled Compound Report

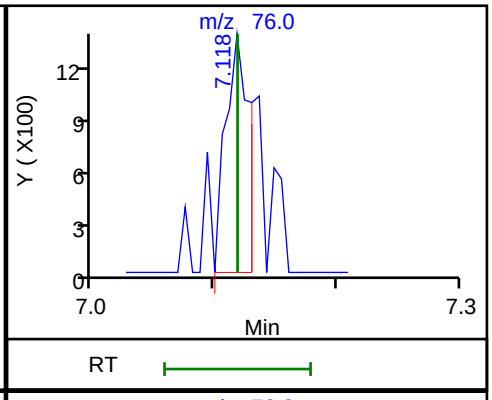
TestAmerica Buffalo

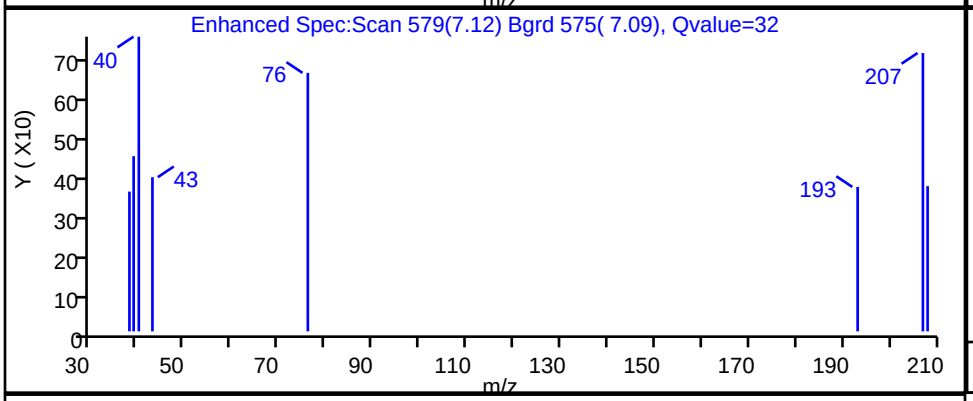
Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38975.D				
Injection Date:	05-Dec-2018 12:41:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-3	Lab Sample ID:	480-146076-3		
Client ID:	MW-7				
Operator ID:	RF	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

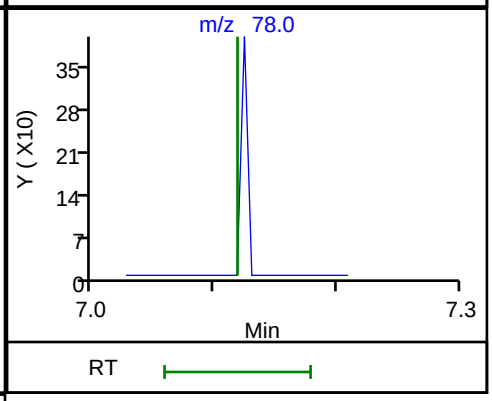
27 Carbon disulfide, CAS: 75-15-0

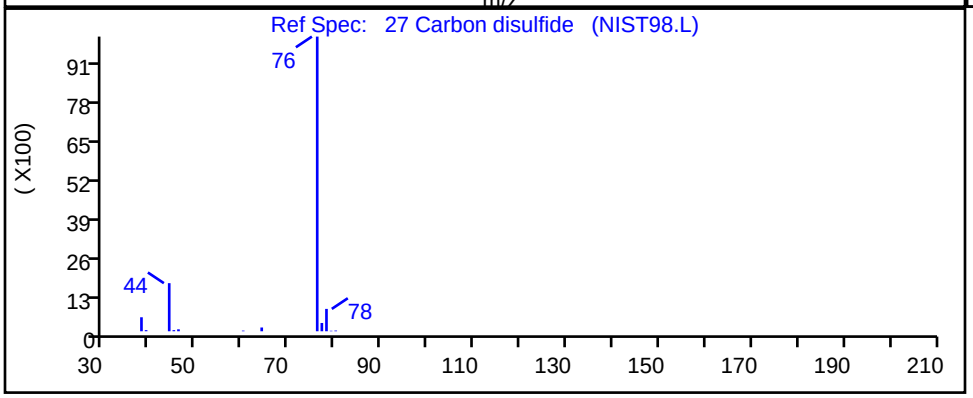
Processing Results











RT	Mass	Response	Amount
7.12	76.00	1809	0.064058
7.12	78.00	0	

Reviewer: farrellr, 06-Dec-2018 08:27:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-4 Lab Sample ID: 480-146076-5

Matrix: Water Lab File ID: P38976.D

Analysis Method: 8260C Date Collected: 11/29/2018 11:10

Sample wt/vol: 5(mL) Date Analyzed: 12/05/2018 13:09

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 449099 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-4 | Lab Sample ID: 480-146076-5

Matrix: Water | Lab File ID: P38976.D

Analysis Method: 8260C | Date Collected: 11/29/2018 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 13:09

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	91		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	80		73-120
1868-53-7	Dibromofluoromethane (Surr)	88		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38976.D
Lims ID: 480-146076-D-5
Client ID: MW-4
Sample Type: Client
Inject. Date: 05-Dec-2018 13:09:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-146076-D-5
Misc. Info.: 480-0077001-012
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Dec-2018 08:37:18 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: farrellr Date: 06-Dec-2018 08:37:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.336	10.336	0.000	98	161231	25.0	
* 2 Chlorobenzene-d5	82	14.284	14.285	-0.001	89	332154	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.241	0.006	97	295279	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	91	203808	22.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.990	-0.001	0	131055	24.4	
$ 5 Toluene-d8 (Surr)	98	12.319	12.319	-0.001	94	730709	22.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	85	208971	20.0	
10 Dichlorodifluoromethane	85		4.253				ND	
11 Chloromethane	50		4.679				ND	
17 Vinyl chloride	62		4.855				ND	
12 Bromomethane	94		5.476				ND	
13 Chloroethane	64		5.615				ND	
14 Trichlorofluoromethane	101		5.962				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.631				ND	
25 1,1-Dichloroethene	96		6.723				ND	
24 Acetone	43		6.802				ND	
27 Carbon disulfide	76		7.118				ND	U
30 Methyl acetate	43		7.167				ND	
31 Methylene Chloride	84		7.392				ND	
32 Methyl tert-butyl ether	73		7.599				ND	
35 trans-1,2-Dichloroethene	96		7.696				ND	
40 1,1-Dichloroethane	63	8.250	8.244	0.006	1	3260	0.1755	
44 2-Butanone (MEK)	43		8.925				ND	
43 cis-1,2-Dichloroethene	96		8.961				ND	
49 Chloroform	83	9.326	9.320	0.006	88	3463	0.1928	
52 1,1,1-Trichloroethane	97		9.558				ND	U
54 Cyclohexane	56		9.600				ND	
55 Carbon tetrachloride	117		9.752				ND	
57 Benzene	78		10.026				ND	
60 1,2-Dichloroethane	62		10.081				ND	
62 Trichloroethene	95		10.787				ND	Ua

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.981				ND	
63 1,2-Dichloropropane	63		11.121				ND	
70 Dichlorobromomethane	83		11.462				ND	
73 cis-1,3-Dichloropropene	75		11.991				ND	
75 4-Methyl-2-pentanone (MIBK	43		12.094				ND	
76 Toluene	92		12.411				ND	
78 trans-1,3-Dichloropropene	75		12.703				ND	
79 1,1,2-Trichloroethane	83		12.995				ND	
80 Tetrachloroethene	166		13.141				ND	
83 2-Hexanone	43		13.183				ND	
81 Chlorodibromomethane	129		13.567				ND	
85 Ethylene Dibromide	107		13.767				ND	
87 Chlorobenzene	112		14.327				ND	
89 Ethylbenzene	91		14.370				ND	
90 m-Xylene & p-Xylene	106		14.504				ND	
93 o-Xylene	106		15.057				ND	
94 Styrene	104		15.082				ND	
92 Bromoform	173		15.465				ND	
95 Isopropylbenzene	105		15.483				ND	
97 1,1,2,2-Tetrachloroethane	83		15.951				ND	
110 1,3-Dichlorobenzene	146		17.174				ND	
111 1,4-Dichlorobenzene	146		17.278				ND	
116 1,2-Dichlorobenzene	146		17.770				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.805				ND	
119 1,2,4-Trichlorobenzene	180		19.906				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

P 8260 IS_00341	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added: 1.25	Units: uL	Run Reagent

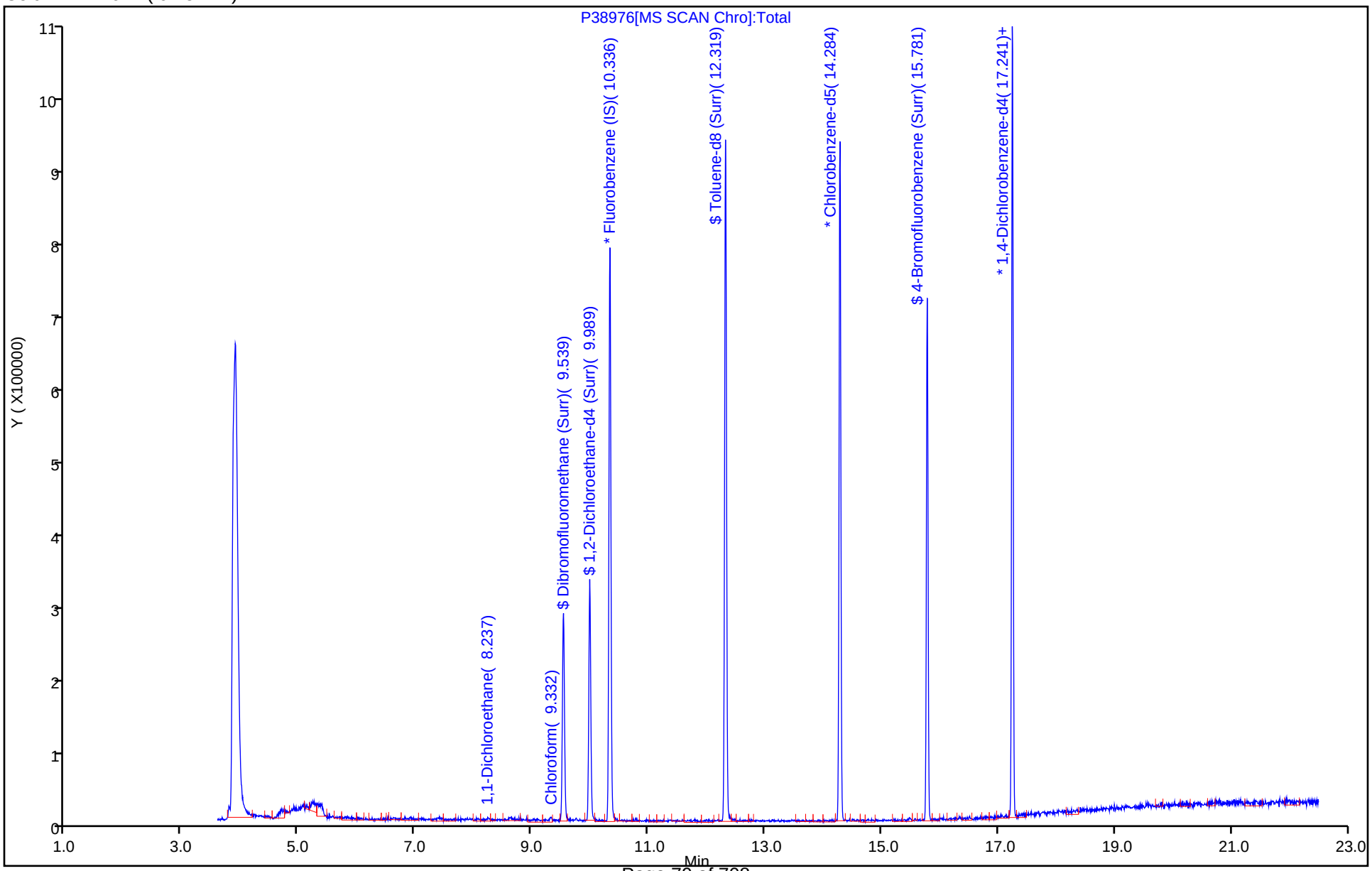
Report Date: 06-Dec-2018 08:37:18 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38976.D

Injection Date:	05-Dec-2018 13:09:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-146076-D-5	Lab Sample ID:	480-146076-5	Worklist Smp#:	12
Client ID:	MW-4				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



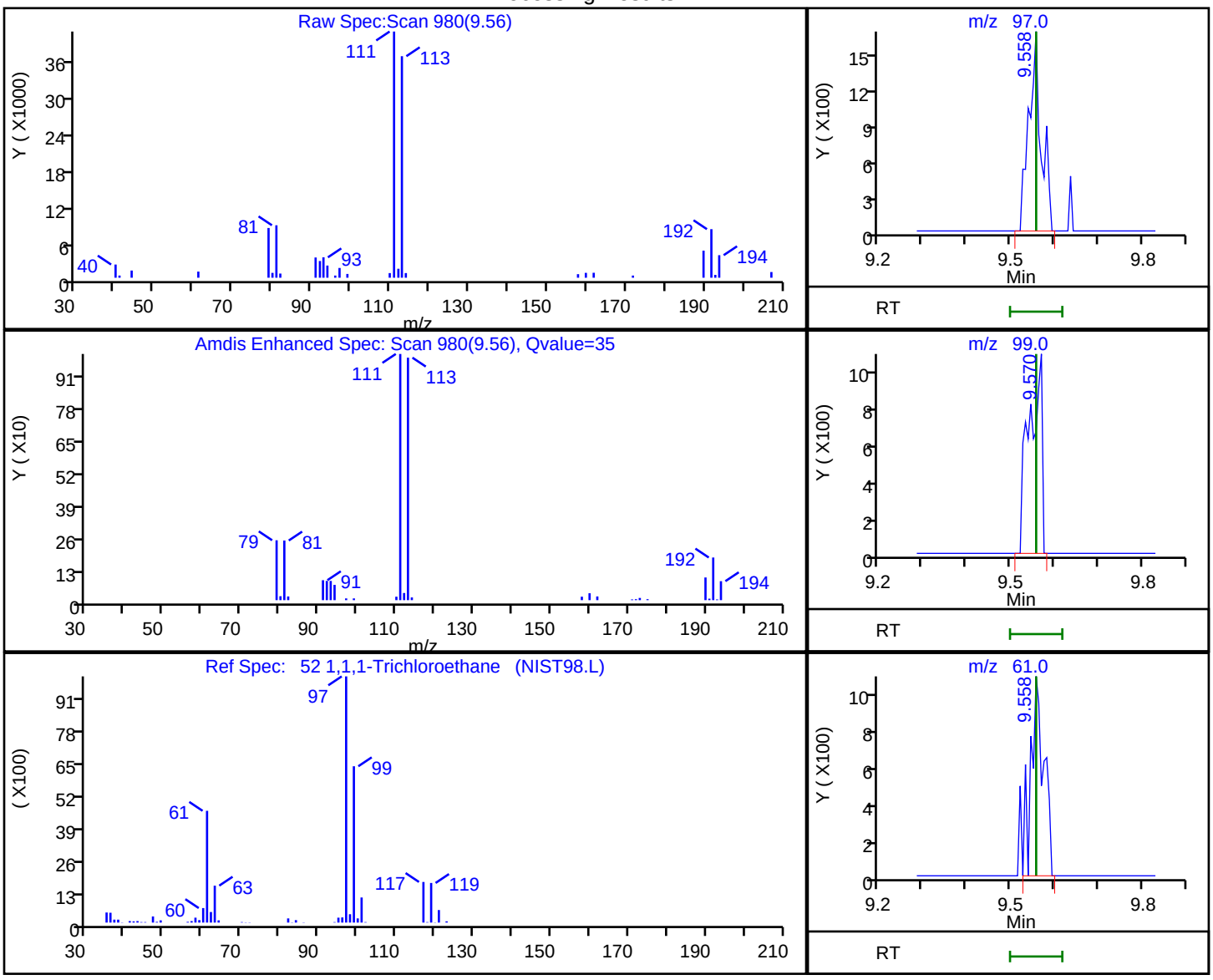
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38976.D				
Injection Date:	05-Dec-2018 13:09:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-5	Lab Sample ID:	480-146076-5		
Client ID:	MW-4				
Operator ID:	RF	ALS Bottle#:	10	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
9.56	97.00	3190	0.215808
9.57	99.00	2081	
9.56	61.00	2106	

Reviewer: farrellr, 06-Dec-2018 08:36:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

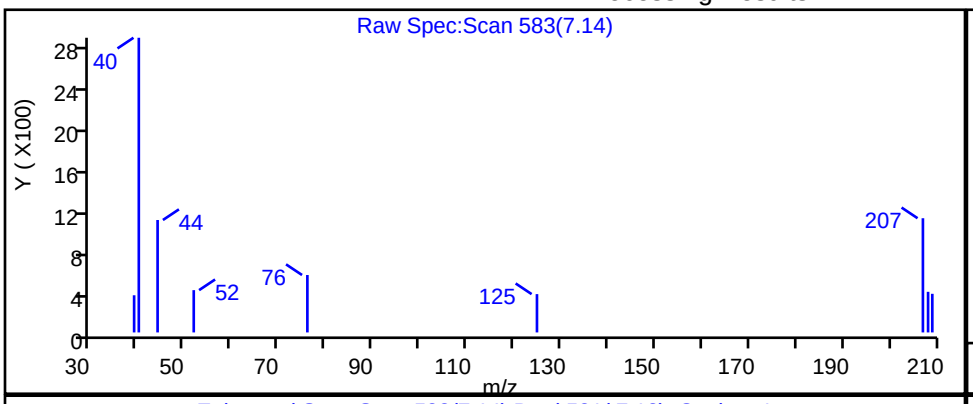
User Disabled Compound Report

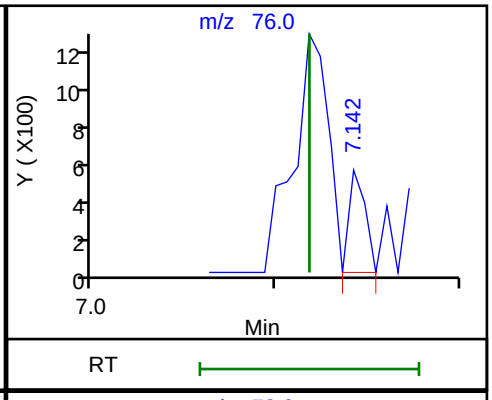
TestAmerica Buffalo

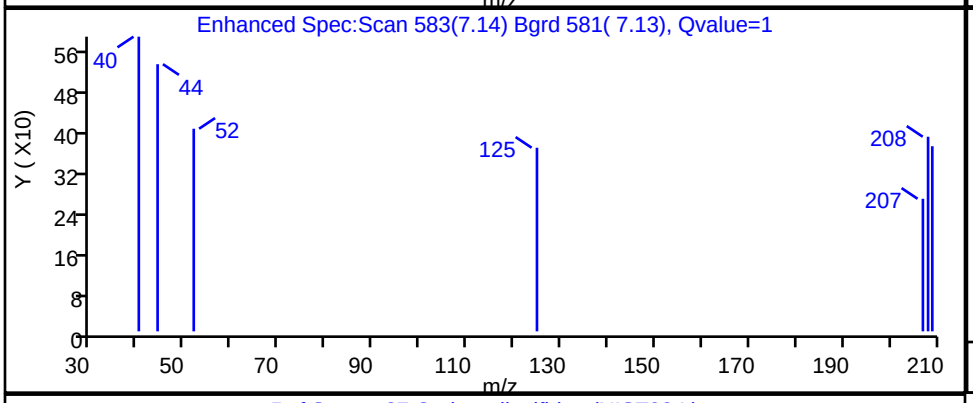
Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38976.D				
Injection Date:	05-Dec-2018 13:09:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-5	Lab Sample ID:	480-146076-5		
Client ID:	MW-4				
Operator ID:	RF	ALS Bottle#:	10	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

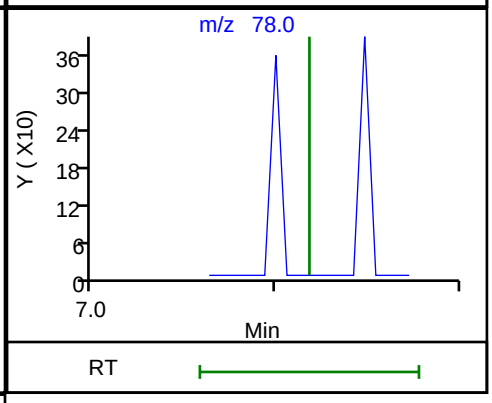
27 Carbon disulfide, CAS: 75-15-0

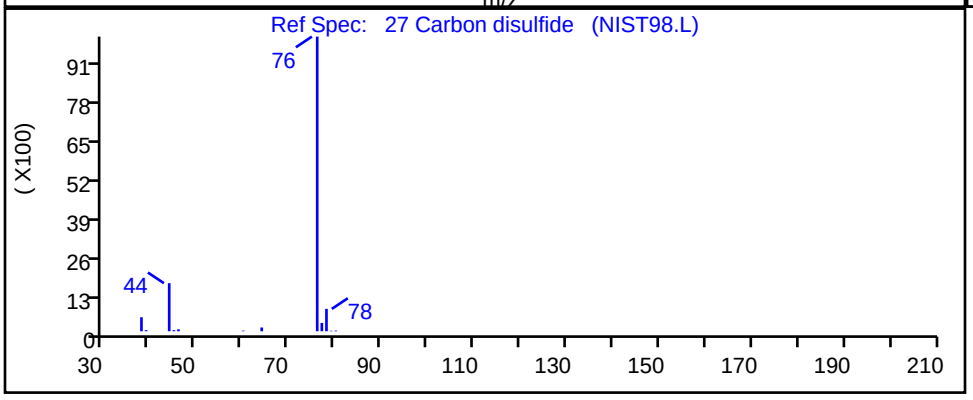
Processing Results











RT	Mass	Response	Amount
7.14	76.00	337	0.012251
7.12	78.00	0	

Reviewer: farrellr, 06-Dec-2018 08:36:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-6 | Lab Sample ID: 480-146076-6

Matrix: Water | Lab File ID: P38977.D

Analysis Method: 8260C | Date Collected: 11/29/2018 14:15

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 13:37

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-6 | Lab Sample ID: 480-146076-6

Matrix: Water | Lab File ID: P38977.D

Analysis Method: 8260C | Date Collected: 11/29/2018 14:15

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 13:37

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	79		73-120
1868-53-7	Dibromofluoromethane (Surr)	87		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38977.D
Lims ID: 480-146076-D-6
Client ID: MW-6
Sample Type: Client
Inject. Date: 05-Dec-2018 13:37:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-146076-D-6
Misc. Info.: 480-0077001-013
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Dec-2018 08:38:08 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: farrellr Date: 06-Dec-2018 08:38:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.336	10.336	0.000	98	159412	25.0	
* 2 Chlorobenzene-d5	82	14.285	14.285	0.000	90	330233	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.241	0.006	97	288980	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	91	200229	21.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.990	9.990	0.000	0	135337	25.4	
$ 5 Toluene-d8 (Surr)	98	12.320	12.319	0.000	95	711876	22.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	85	205389	19.8	
10 Dichlorodifluoromethane	85		4.253				ND	
11 Chloromethane	50		4.679				ND	
17 Vinyl chloride	62		4.855				ND	
12 Bromomethane	94		5.476				ND	
13 Chloroethane	64		5.615				ND	
14 Trichlorofluoromethane	101		5.962				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.631				ND	
25 1,1-Dichloroethene	96		6.723				ND	
24 Acetone	43		6.802				ND	
27 Carbon disulfide	76		7.118				ND	U
30 Methyl acetate	43		7.167				ND	
31 Methylene Chloride	84		7.392				ND	
32 Methyl tert-butyl ether	73		7.599				ND	
35 trans-1,2-Dichloroethene	96		7.696				ND	
40 1,1-Dichloroethane	63		8.244				ND	
44 2-Butanone (MEK)	43		8.925				ND	
43 cis-1,2-Dichloroethene	96		8.961				ND	
49 Chloroform	83		9.320				ND	
52 1,1,1-Trichloroethane	97		9.558				ND	
54 Cyclohexane	56		9.600				ND	
55 Carbon tetrachloride	117		9.752				ND	
57 Benzene	78		10.026				ND	
60 1,2-Dichloroethane	62		10.081				ND	
62 Trichloroethene	95		10.787				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.981				ND	
63 1,2-Dichloropropane	63		11.121				ND	
70 Dichlorobromomethane	83		11.462				ND	
73 cis-1,3-Dichloropropene	75		11.991				ND	
75 4-Methyl-2-pentanone (MIBK	43		12.094				ND	
76 Toluene	92		12.411				ND	
78 trans-1,3-Dichloropropene	75		12.703				ND	
79 1,1,2-Trichloroethane	83		12.995				ND	
80 Tetrachloroethene	166		13.141				ND	
83 2-Hexanone	43		13.183				ND	
81 Chlorodibromomethane	129		13.567				ND	
85 Ethylene Dibromide	107		13.767				ND	
87 Chlorobenzene	112		14.327				ND	
89 Ethylbenzene	91		14.370				ND	
90 m-Xylene & p-Xylene	106		14.504				ND	
93 o-Xylene	106		15.057				ND	
94 Styrene	104		15.082				ND	
92 Bromoform	173		15.465				ND	
95 Isopropylbenzene	105		15.483				ND	
97 1,1,2,2-Tetrachloroethane	83		15.951				ND	
110 1,3-Dichlorobenzene	146		17.174				ND	
111 1,4-Dichlorobenzene	146		17.278				ND	U
116 1,2-Dichlorobenzene	146		17.770				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.805				ND	
119 1,2,4-Trichlorobenzene	180		19.906				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

P 8260 IS_00341	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added:	1.25	Units: uL	Run Reagent

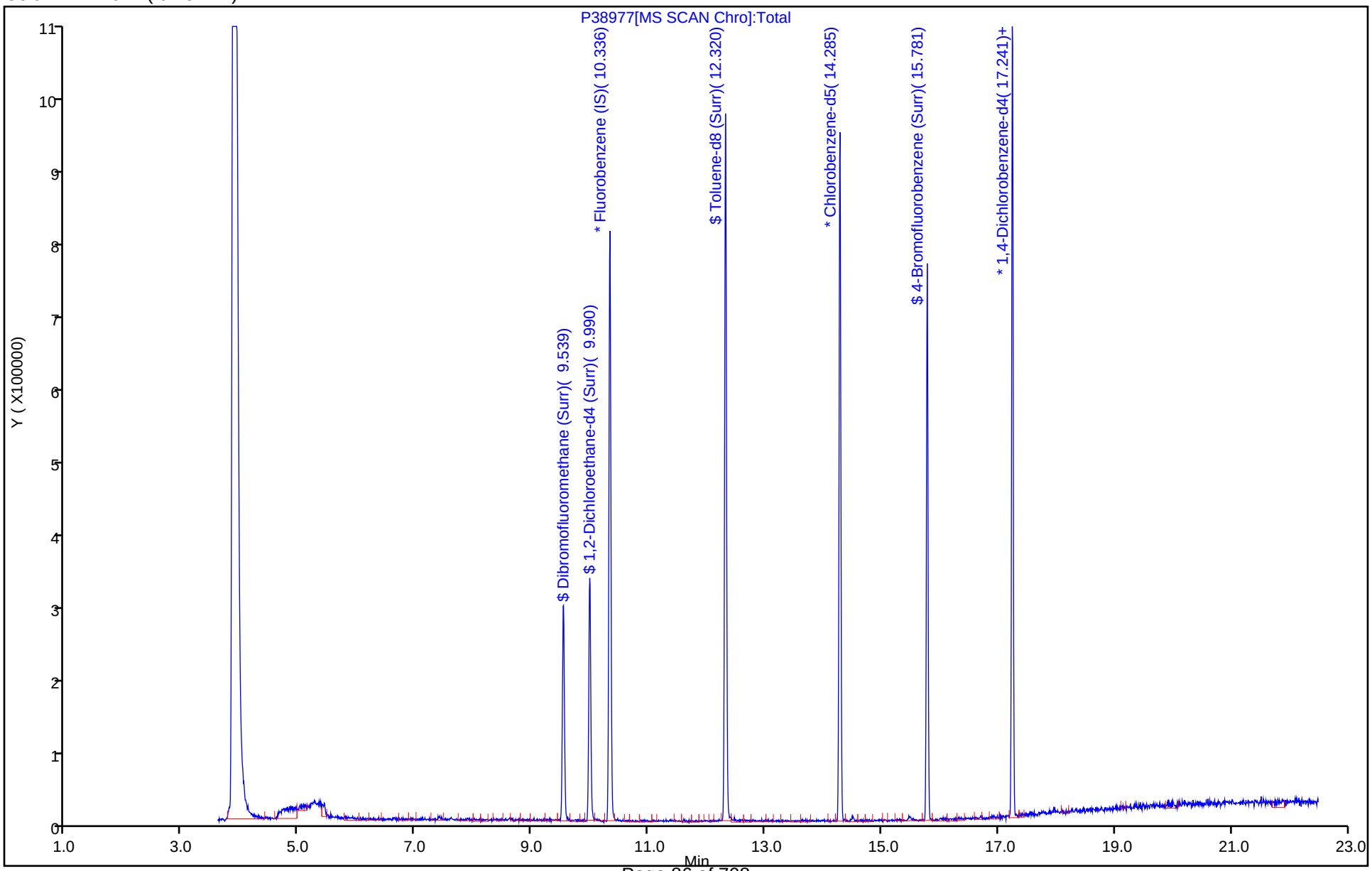
Report Date: 06-Dec-2018 08:38:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38977.D

Injection Date:	05-Dec-2018 13:37:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-146076-D-6	Lab Sample ID:	480-146076-6	Worklist Smp#:	13
Client ID:	MW-6				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



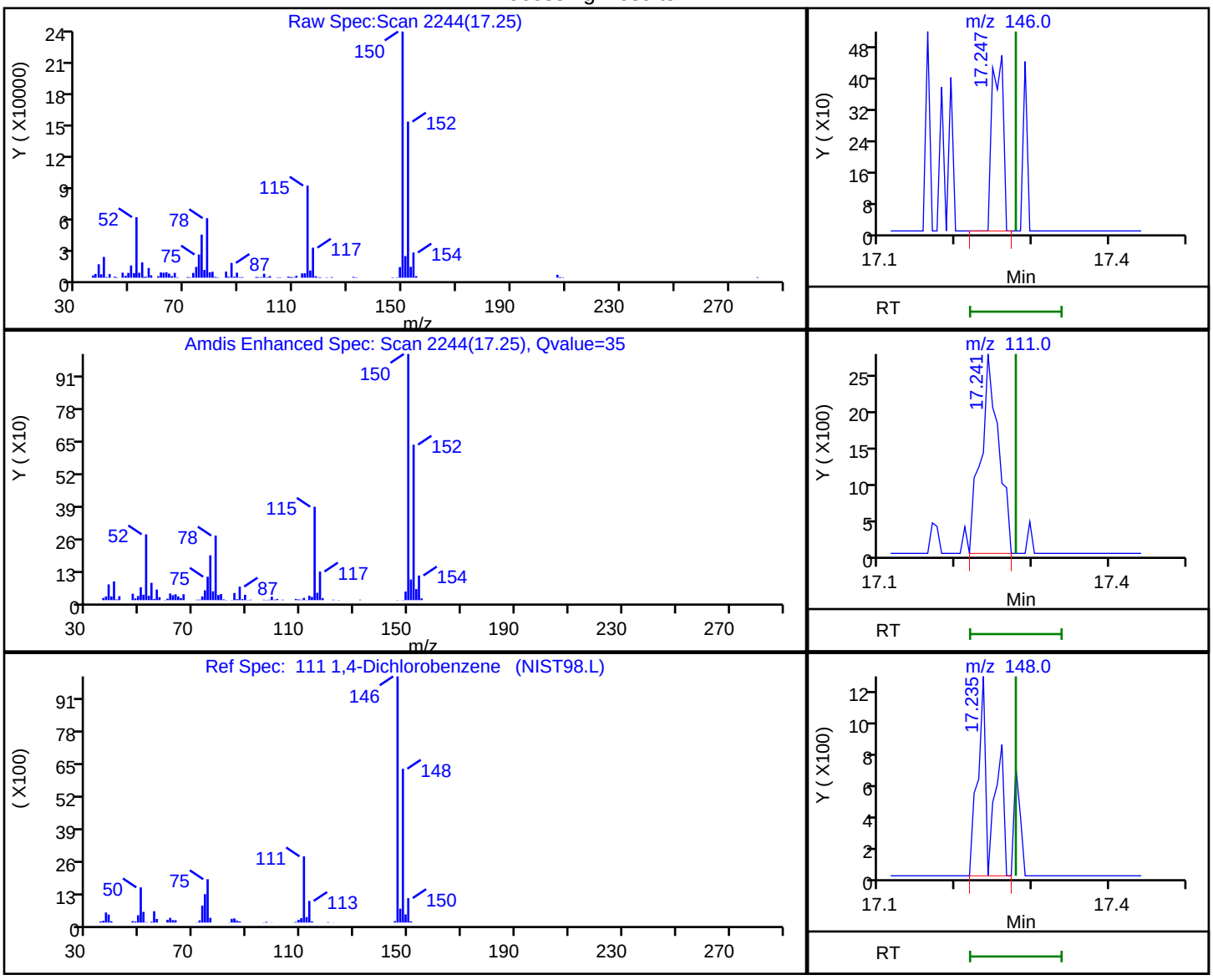
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38977.D				
Injection Date:	05-Dec-2018 13:37:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-6	Lab Sample ID:	480-146076-6		
Client ID:	MW-6				
Operator ID:	RF	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

111 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
17.25	146.00	451	0.023369
17.24	111.00	4354	
17.24	148.00	1525	

Reviewer: farrellr, 06-Dec-2018 08:38:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

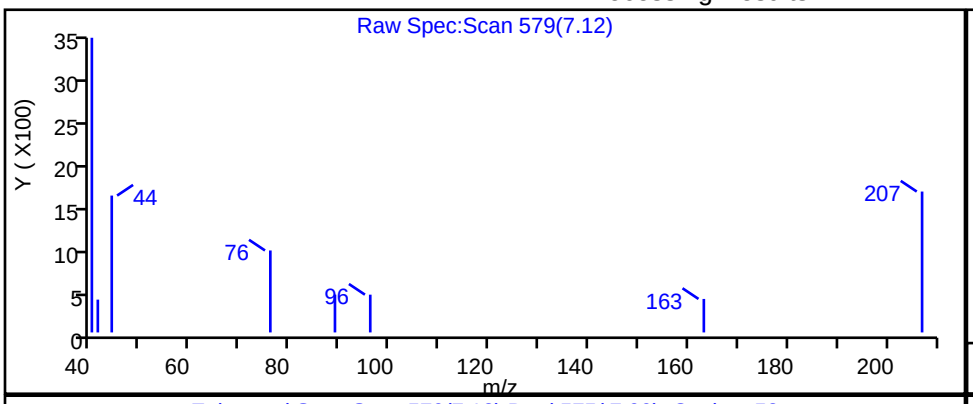
User Disabled Compound Report

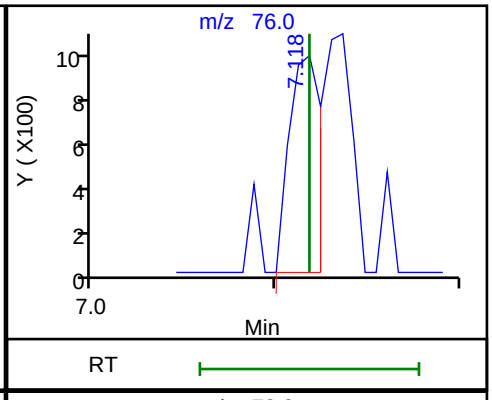
TestAmerica Buffalo

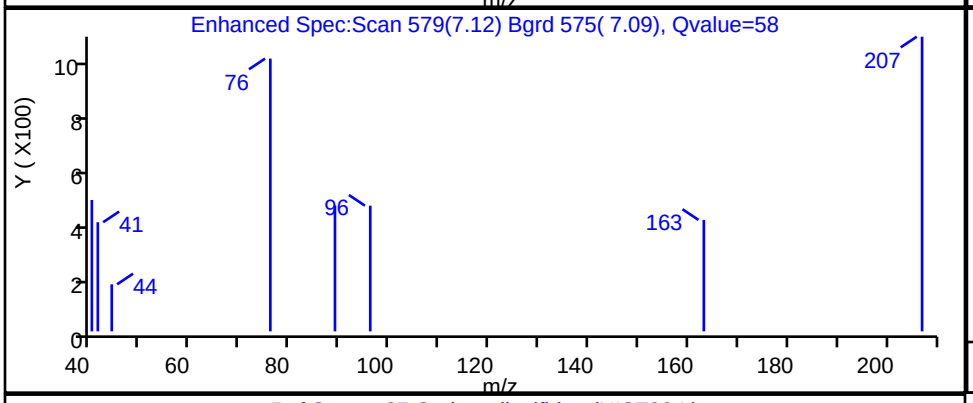
Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38977.D				
Injection Date:	05-Dec-2018 13:37:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-6	Lab Sample ID:	480-146076-6		
Client ID:	MW-6				
Operator ID:	RF	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

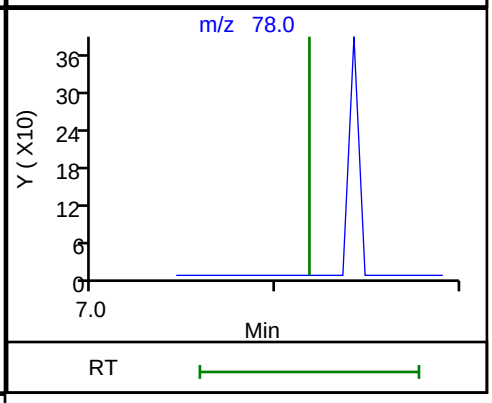
27 Carbon disulfide, CAS: 75-15-0

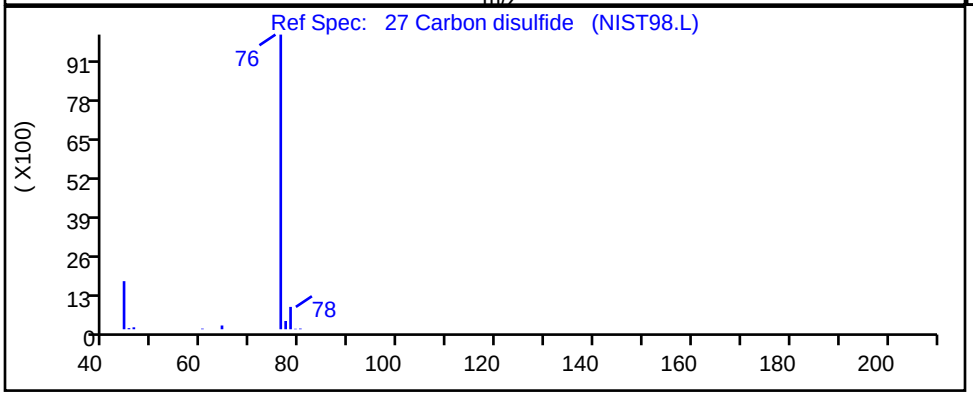
Processing Results











RT	Mass	Response	Amount
7.12	76.00	1154	0.042430
7.12	78.00	0	

Reviewer: farrellr, 06-Dec-2018 08:37:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 | Lab Sample ID: 480-146076-7

Matrix: Water | Lab File ID: P38978.D

Analysis Method: 8260C | Date Collected: 11/29/2018 09:40

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 14:04

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND	F1	1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	F1	5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND	F1	1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 | Lab Sample ID: 480-146076-7

Matrix: Water | Lab File ID: P38978.D

Analysis Method: 8260C | Date Collected: 11/29/2018 09:40

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 14:04

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	79		73-120
1868-53-7	Dibromofluoromethane (Surr)	85		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38978.D
Lims ID: 480-146076-D-7
Client ID: MW-8
Sample Type: Client
Inject. Date: 05-Dec-2018 14:04:30 ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-146076-D-7
Misc. Info.: 480-0077001-014
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Dec-2018 08:38:36 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: farrellr Date: 06-Dec-2018 08:38:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.330	10.336	-0.006	98	161199	25.0	
* 2 Chlorobenzene-d5	82	14.285	14.285	0.000	89	330018	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.241	17.241	0.000	97	286050	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.533	9.539	-0.006	90	198034	21.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.990	9.990	0.000	0	129646	24.1	
$ 5 Toluene-d8 (Surr)	98	12.320	12.319	0.000	95	713403	22.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	86	204538	19.7	
10 Dichlorodifluoromethane	85		4.253				ND	
11 Chloromethane	50		4.679				ND	U
17 Vinyl chloride	62		4.855				ND	
12 Bromomethane	94		5.476				ND	
13 Chloroethane	64		5.615				ND	
14 Trichlorofluoromethane	101		5.962				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.631				ND	
25 1,1-Dichloroethene	96		6.723				ND	
24 Acetone	43		6.802				ND	
27 Carbon disulfide	76		7.118				ND	U
30 Methyl acetate	43		7.167				ND	
31 Methylene Chloride	84		7.392				ND	
32 Methyl tert-butyl ether	73		7.599				ND	
35 trans-1,2-Dichloroethene	96		7.696				ND	
40 1,1-Dichloroethane	63		8.244				ND	
44 2-Butanone (MEK)	43		8.925				ND	
43 cis-1,2-Dichloroethene	96		8.961				ND	
49 Chloroform	83		9.320				ND	
52 1,1,1-Trichloroethane	97		9.558				ND	
54 Cyclohexane	56		9.600				ND	
55 Carbon tetrachloride	117		9.752				ND	
57 Benzene	78		10.026				ND	
60 1,2-Dichloroethane	62		10.081				ND	
62 Trichloroethene	95		10.787				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.981				ND	
63 1,2-Dichloropropane	63		11.121				ND	
70 Dichlorobromomethane	83		11.462				ND	
73 cis-1,3-Dichloropropene	75		11.991				ND	
75 4-Methyl-2-pentanone (MIBK	43		12.094				ND	
76 Toluene	92		12.411				ND	
78 trans-1,3-Dichloropropene	75		12.703				ND	
79 1,1,2-Trichloroethane	83		12.995				ND	
80 Tetrachloroethene	166		13.141				ND	
83 2-Hexanone	43		13.183				ND	
81 Chlorodibromomethane	129		13.567				ND	
85 Ethylene Dibromide	107		13.767				ND	
87 Chlorobenzene	112		14.327				ND	
89 Ethylbenzene	91		14.370				ND	
90 m-Xylene & p-Xylene	106		14.504				ND	
93 o-Xylene	106		15.057				ND	
94 Styrene	104		15.082				ND	
92 Bromoform	173		15.465				ND	
95 Isopropylbenzene	105		15.483				ND	
97 1,1,2,2-Tetrachloroethane	83		15.951				ND	
110 1,3-Dichlorobenzene	146		17.174				ND	
111 1,4-Dichlorobenzene	146		17.278				ND	
116 1,2-Dichlorobenzene	146		17.770				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.805				ND	
119 1,2,4-Trichlorobenzene	180		19.906				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

P 8260 IS_00341	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added:	1.25	Units: uL	Run Reagent

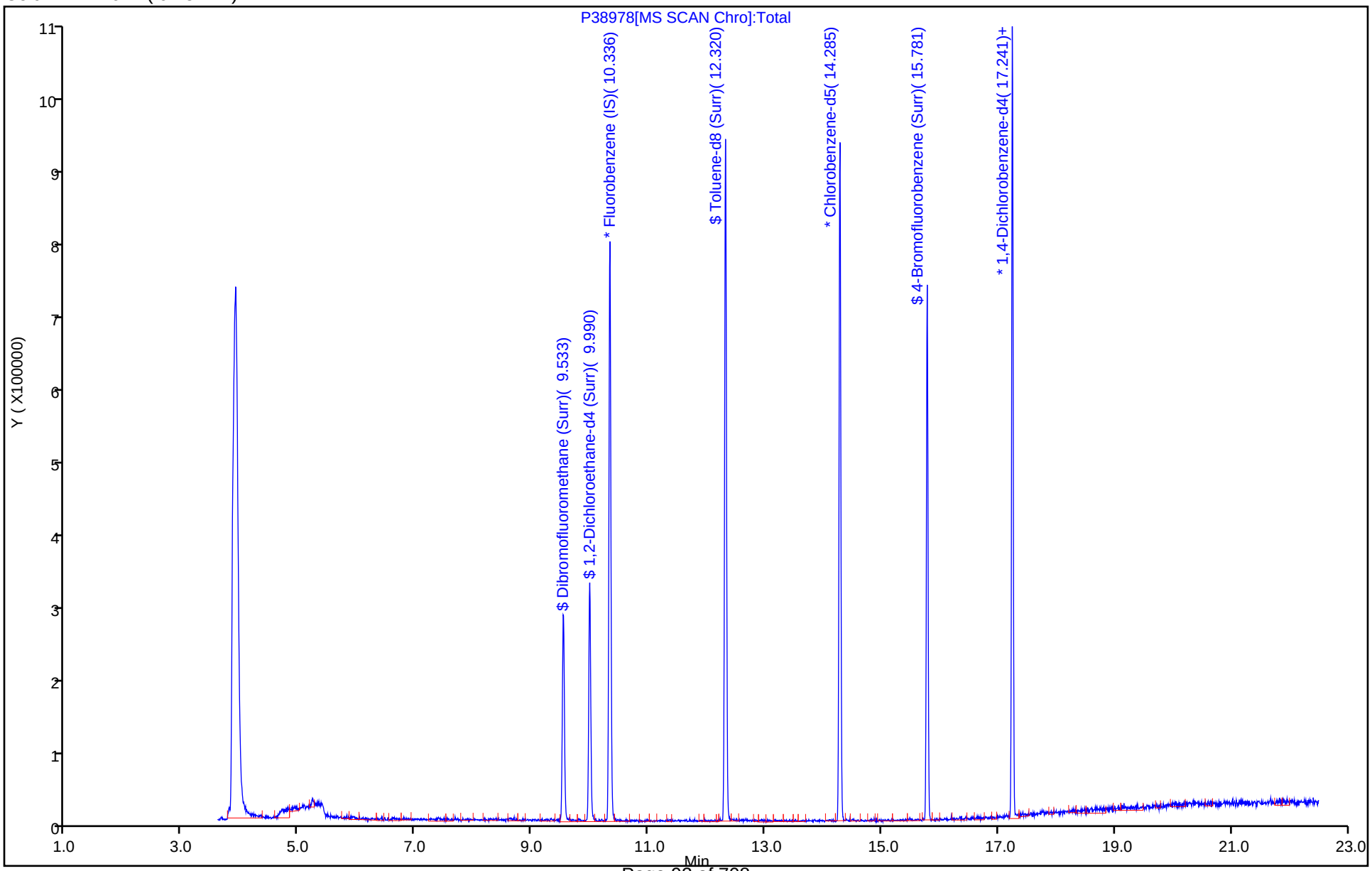
Report Date: 06-Dec-2018 08:38:37 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38978.D

Injection Date:	05-Dec-2018 14:04:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-146076-D-7	Lab Sample ID:	480-146076-7	Worklist Smp#:	14
Client ID:	MW-8				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



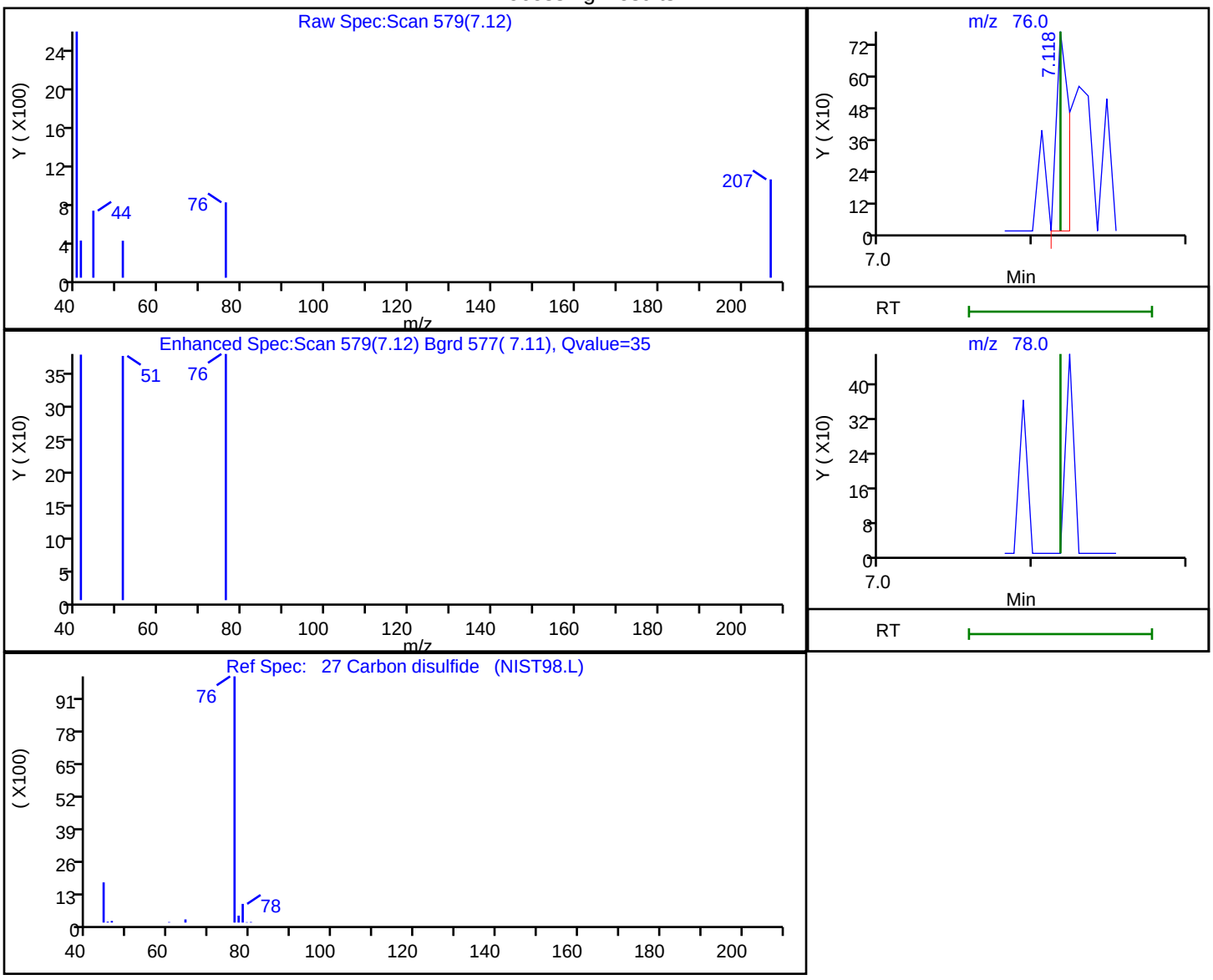
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38978.D				
Injection Date:	05-Dec-2018 14:04:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-7	Lab Sample ID:	480-146076-7		
Client ID:	MW-8				
Operator ID:	RF	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

27 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
7.12	76.00	447	0.016253
7.12	78.00	0	

Reviewer: farrellr, 06-Dec-2018 08:38:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

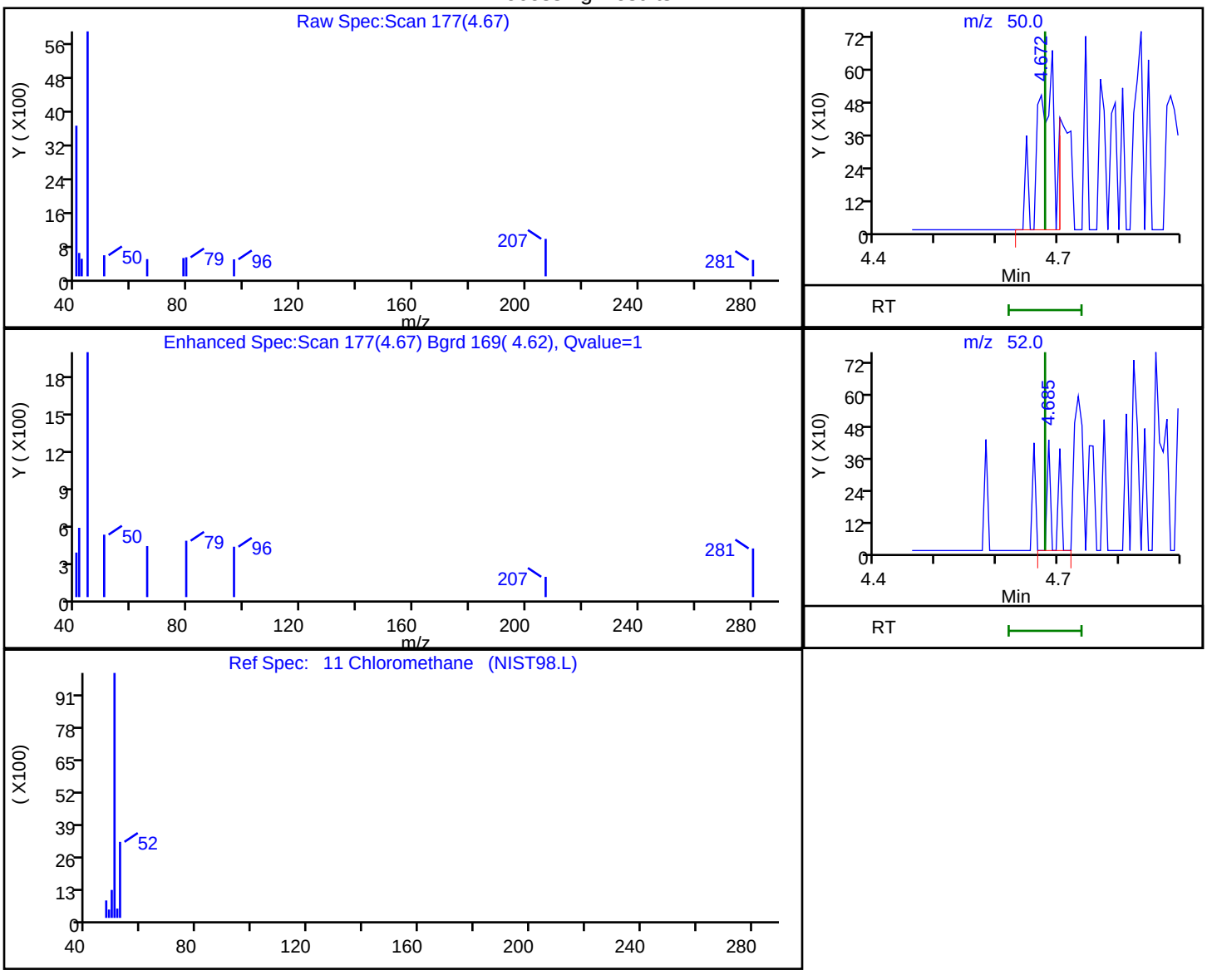
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38978.D				
Injection Date:	05-Dec-2018 14:04:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-7	Lab Sample ID:	480-146076-7		
Client ID:	MW-8				
Operator ID:	RF	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

11 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
4.67	50.00	1178	0.063539
4.68	52.00	297	

Reviewer: farrellr, 06-Dec-2018 08:38:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: DUP-112918 | Lab Sample ID: 480-146076-8

Matrix: Water | Lab File ID: P38979.D

Analysis Method: 8260C | Date Collected: 11/29/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 14:32

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: DUP-112918 | Lab Sample ID: 480-146076-8

Matrix: Water | Lab File ID: P38979.D

Analysis Method: 8260C | Date Collected: 11/29/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 14:32

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	78		73-120
1868-53-7	Dibromofluoromethane (Surr)	83		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38979.D
Lims ID: 480-146076-D-8
Client ID: DUP-112918
Sample Type: Client
Inject. Date: 05-Dec-2018 14:32:30 ALS Bottle#: 13 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-146076-D-8
Misc. Info.: 480-0077001-017
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Dec-2018 08:39:13 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: farrellr Date: 06-Dec-2018 08:39:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.336	10.336	0.000	98	162020	25.0	
* 2 Chlorobenzene-d5	82	14.284	14.285	-0.001	89	328503	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.241	17.241	0.000	97	287902	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	90	192886	20.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.990	-0.001	0	132134	24.4	
$ 5 Toluene-d8 (Surr)	98	12.319	12.319	-0.001	95	705158	22.3	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	86	200456	19.4	
10 Dichlorodifluoromethane	85		4.253				ND	
11 Chloromethane	50		4.679				ND	
17 Vinyl chloride	62		4.855				ND	
12 Bromomethane	94		5.476				ND	U
13 Chloroethane	64		5.615				ND	
14 Trichlorofluoromethane	101		5.962				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.631				ND	
25 1,1-Dichloroethene	96		6.723				ND	
24 Acetone	43		6.802				ND	
27 Carbon disulfide	76		7.118				ND	U
30 Methyl acetate	43		7.167				ND	
31 Methylene Chloride	84		7.392				ND	
32 Methyl tert-butyl ether	73		7.599				ND	
35 trans-1,2-Dichloroethene	96		7.696				ND	
40 1,1-Dichloroethane	63	8.243	8.244	-0.001	1	3904	0.2091	
44 2-Butanone (MEK)	43		8.925				ND	
43 cis-1,2-Dichloroethene	96		8.961				ND	
49 Chloroform	83	9.320	9.320	0.000	28	3143	0.1742	
52 1,1,1-Trichloroethane	97		9.558				ND	Ua
54 Cyclohexane	56		9.600				ND	
55 Carbon tetrachloride	117		9.752				ND	
57 Benzene	78		10.026				ND	
60 1,2-Dichloroethane	62		10.081				ND	
62 Trichloroethene	95		10.787				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.981				ND	
63 1,2-Dichloropropane	63		11.121				ND	
70 Dichlorobromomethane	83		11.462				ND	
73 cis-1,3-Dichloropropene	75		11.991				ND	
75 4-Methyl-2-pentanone (MIBK	43		12.094				ND	
76 Toluene	92		12.411				ND	
78 trans-1,3-Dichloropropene	75		12.703				ND	
79 1,1,2-Trichloroethane	83		12.995				ND	
80 Tetrachloroethene	166		13.141				ND	
83 2-Hexanone	43		13.183				ND	
81 Chlorodibromomethane	129		13.567				ND	
85 Ethylene Dibromide	107		13.767				ND	
87 Chlorobenzene	112		14.327				ND	
89 Ethylbenzene	91		14.370				ND	
90 m-Xylene & p-Xylene	106		14.504				ND	
93 o-Xylene	106		15.057				ND	
94 Styrene	104		15.082				ND	
92 Bromoform	173		15.465				ND	
95 Isopropylbenzene	105		15.483				ND	
97 1,1,2,2-Tetrachloroethane	83		15.951				ND	
110 1,3-Dichlorobenzene	146		17.174				ND	
111 1,4-Dichlorobenzene	146		17.278				ND	
116 1,2-Dichlorobenzene	146		17.770				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.805				ND	
119 1,2,4-Trichlorobenzene	180		19.906				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

P 8260 IS_00341	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added:	1.25	Units: uL	Run Reagent

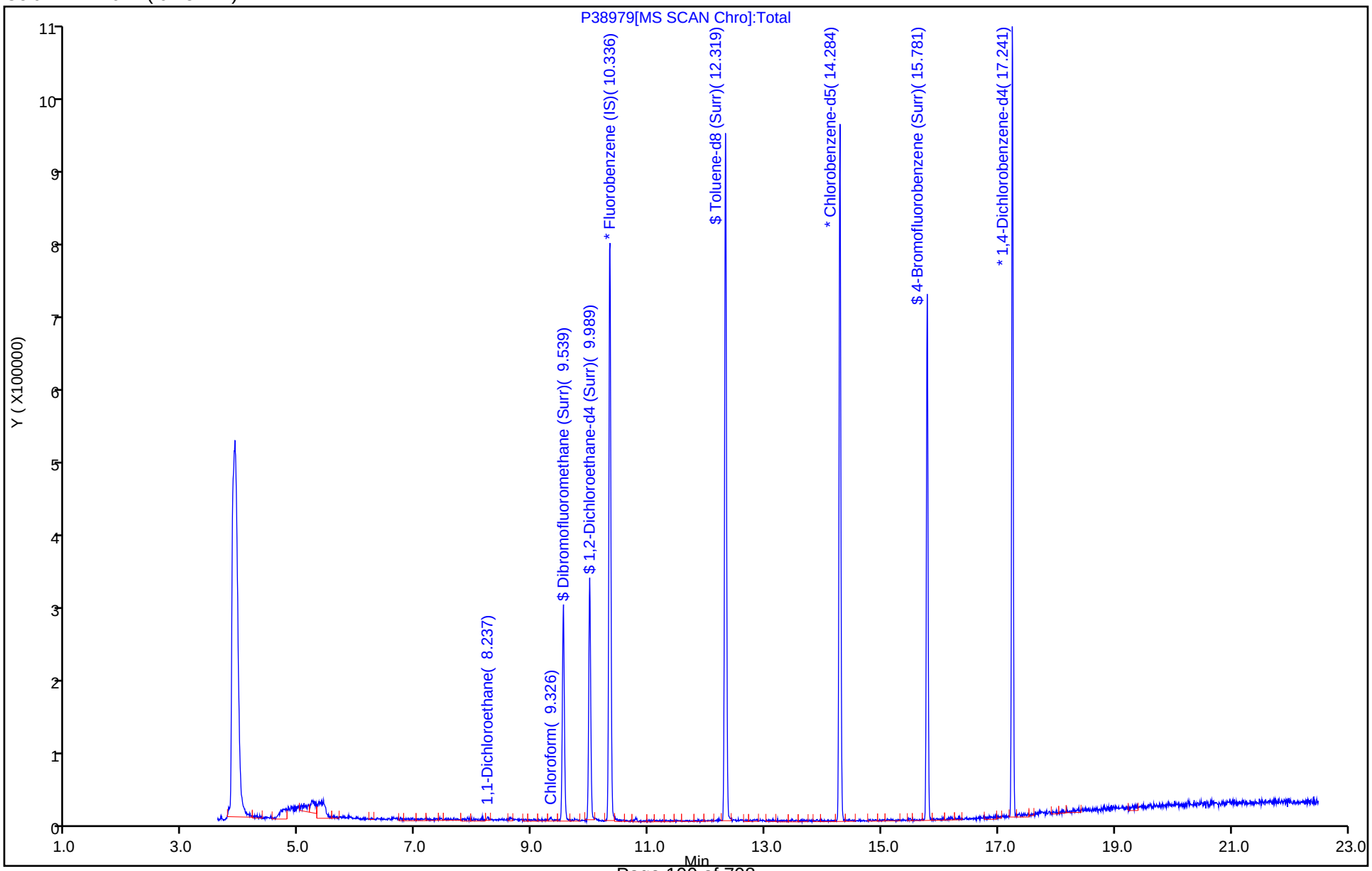
Report Date: 06-Dec-2018 08:39:14 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38979.D

Injection Date:	05-Dec-2018 14:32:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-146076-D-8	Lab Sample ID:	480-146076-8	Worklist Smp#:	17
Client ID:	DUP-112918				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



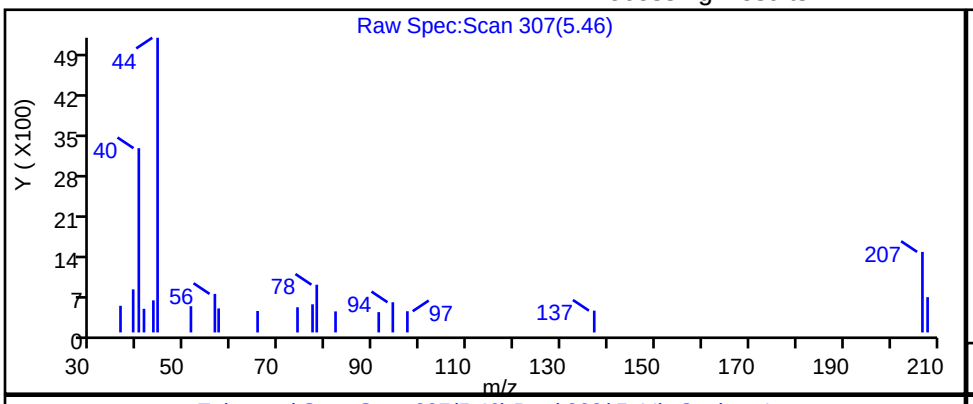
User Disabled Compound Report

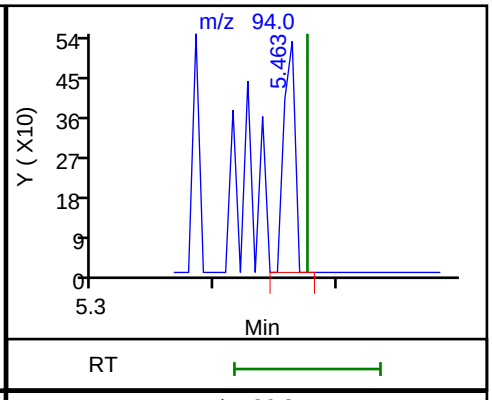
TestAmerica Buffalo

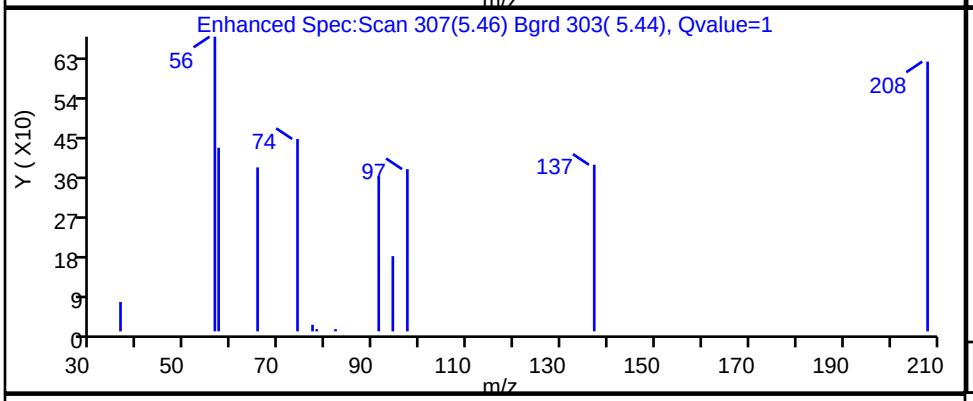
Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38979.D				
Injection Date:	05-Dec-2018 14:32:30	Instrument ID:	HP5973P		
Lims ID:	480-146076-D-8	Lab Sample ID:	480-146076-8		
Client ID:	DUP-112918				
Operator ID:	RF	ALS Bottle#:	13	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

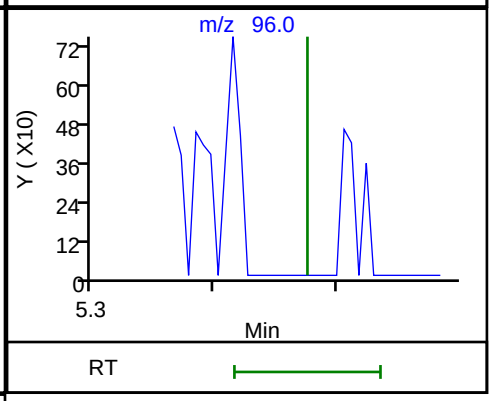
12 Bromomethane, CAS: 74-83-9

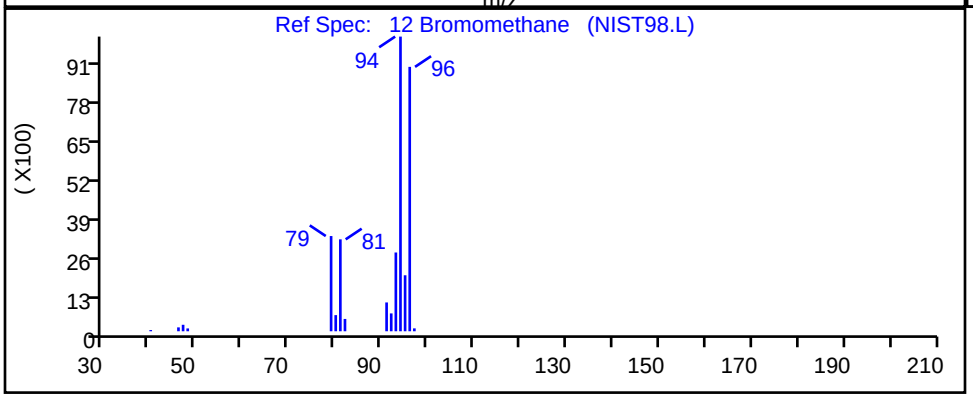
Processing Results











RT	Mass	Response	Amount
5.46	94.00	337	0.030486
5.48	96.00	0	

Reviewer: farrellr, 06-Dec-2018 08:38:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

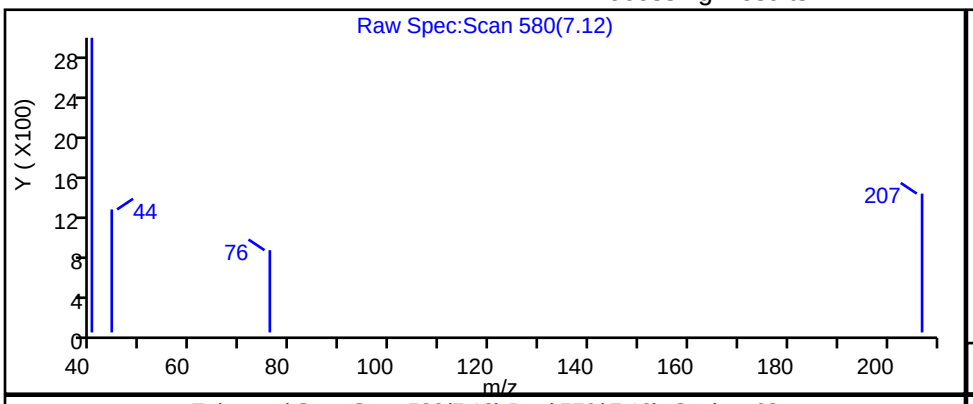
User Disabled Compound Report

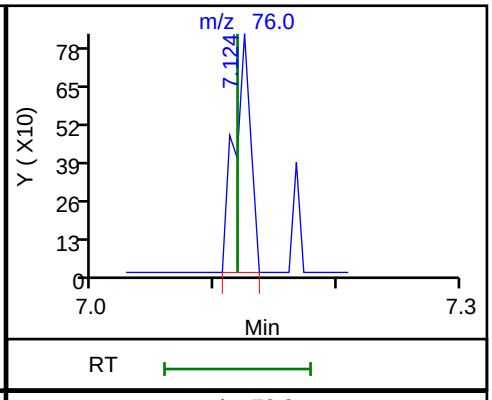
TestAmerica Buffalo

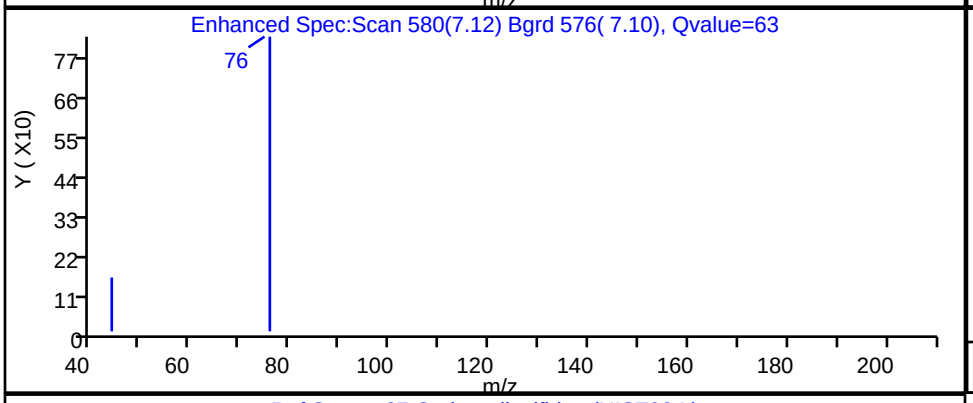
Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38979.D		
Injection Date:	05-Dec-2018 14:32:30	Instrument ID:	HP5973P
Lims ID:	480-146076-D-8	Lab Sample ID:	480-146076-8
Client ID:	DUP-112918		
Operator ID:	RF	ALS Bottle#:	13 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

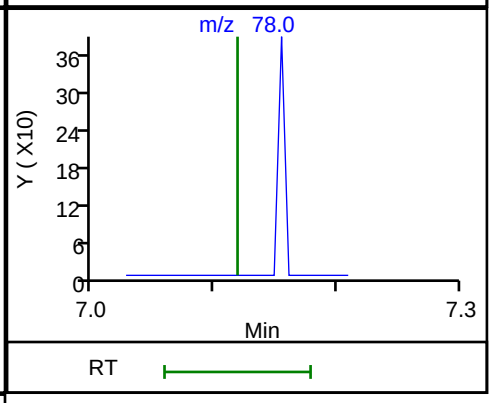
27 Carbon disulfide, CAS: 75-15-0

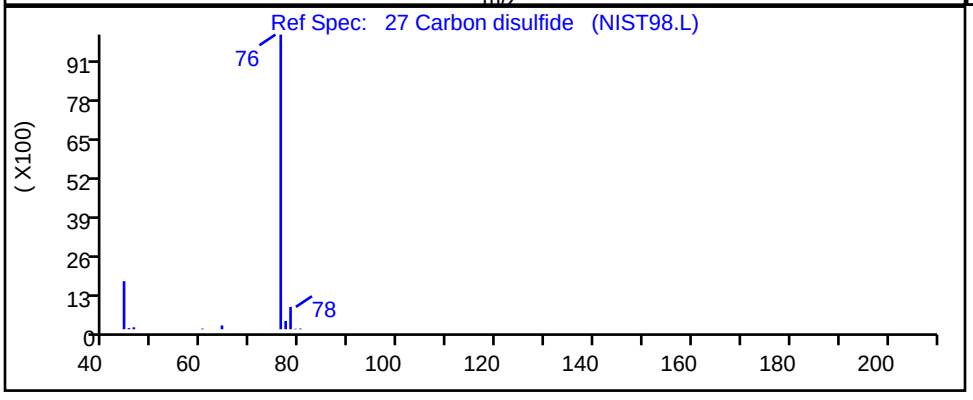
Processing Results











RT	Mass	Response	Amount
7.12	76.00	761	0.027530
7.12	78.00	0	

Reviewer: farrellr, 06-Dec-2018 08:38:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 480-146076-9

Matrix: Water | Lab File ID: N6438.D

Analysis Method: 8260C | Date Collected: 11/29/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/04/2018 14:44

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.: 448834 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 480-146076-9

Matrix: Water | Lab File ID: N6438.D

Analysis Method: 8260C | Date Collected: 11/29/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/04/2018 14:44

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.: 448834 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6438.D
Lims ID: 480-146076-A-9
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 04-Dec-2018 14:44:30 ALS Bottle#: 9 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-146076-A-9
Misc. Info.: 480-0076958-016
Operator ID: AM Instrument ID: HP5973N

Method: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 04-Dec-2018 16:56:36 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0329

First Level Reviewer: baroner Date: 04-Dec-2018 16:56:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.540	5.540	0.000	98	158890	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	89	625813	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.930	-0.006	96	331424	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.962	4.968	0.000	93	209628	25.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	294247	25.7	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	794819	24.7	
$ 7 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	93	256223	25.0	
11 Dichlorodifluoromethane	85		1.330				ND	
13 Chloromethane	50		1.513				ND	
14 Vinyl chloride	62		1.610				ND	
15 Bromomethane	94		1.932				ND	
16 Chloroethane	64		2.030				ND	U
18 Trichlorofluoromethane	101		2.231				ND	
22 1,1-Dichloroethene	96		2.754				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.766				ND	
23 Acetone	43		2.888				ND	
25 Carbon disulfide	76		2.955				ND	
28 Methyl acetate	43		3.186				ND	
30 Methylene Chloride	84		3.283				ND	
32 Methyl tert-butyl ether	73		3.490				ND	
33 trans-1,2-Dichloroethene	96		3.508				ND	
36 1,1-Dichloroethane	63		3.934				ND	
43 cis-1,2-Dichloroethene	96		4.494				ND	
44 2-Butanone (MEK)	43		4.530				ND	
50 Chloroform	83		4.804				ND	
51 1,1,1-Trichloroethane	97		4.913				ND	
52 Cyclohexane	56		4.920				ND	
53 Carbon tetrachloride	117		5.053				ND	
55 Benzene	78		5.272				ND	
57 1,2-Dichloroethane	62		5.345				ND	U
60 Trichloroethene	95		5.887				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.996				ND	
63 1,2-Dichloropropane	63		6.124				ND	
67 Dichlorobromomethane	83		6.416				ND	
71 cis-1,3-Dichloropropene	75		6.836				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.982				ND	U
73 Toluene	92		7.122				ND	
75 trans-1,3-Dichloropropene	75		7.408				ND	
78 1,1,2-Trichloroethane	83		7.596				ND	
79 Tetrachloroethene	166		7.651				ND	
82 2-Hexanone	43		7.821				ND	
83 Chlorodibromomethane	129		7.998				ND	
84 Ethylene Dibromide	107		8.101				ND	
85 Chlorobenzene	112		8.576				ND	
88 Ethylbenzene	91		8.667				ND	
90 m-Xylene & p-Xylene	106		8.789				ND	
91 o-Xylene	106		9.215				ND	
92 Styrene	104		9.251				ND	
93 Bromoform	173		9.500				ND	
95 Isopropylbenzene	105		9.598				ND	
98 1,1,2,2-Tetrachloroethane	83		10.005				ND	
110 1,3-Dichlorobenzene	146		10.863				ND	U
113 1,4-Dichlorobenzene	146		10.948				ND	U
116 1,2-Dichlorobenzene	146		11.301				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.031				ND	
119 1,2,4-Trichlorobenzene	180		12.700				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

N_8260_Surr_00355	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00134	Amount Added:	1.00	Units: uL	Run Reagent

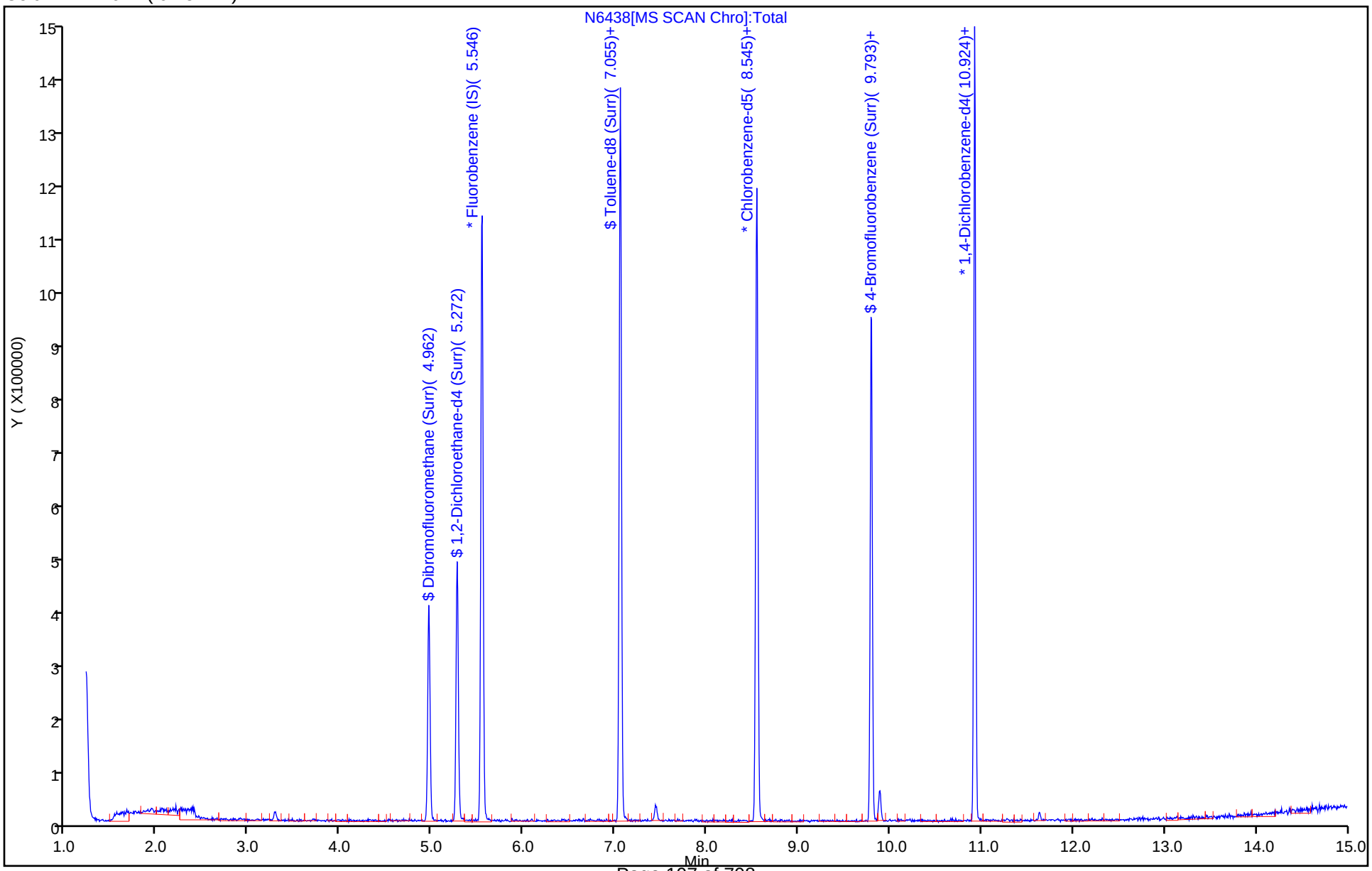
Report Date: 04-Dec-2018 16:56:36 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6438.D

Injection Date:	04-Dec-2018 14:44:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	480-146076-A-9	Lab Sample ID:	480-146076-9	Worklist Smp#:	16
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



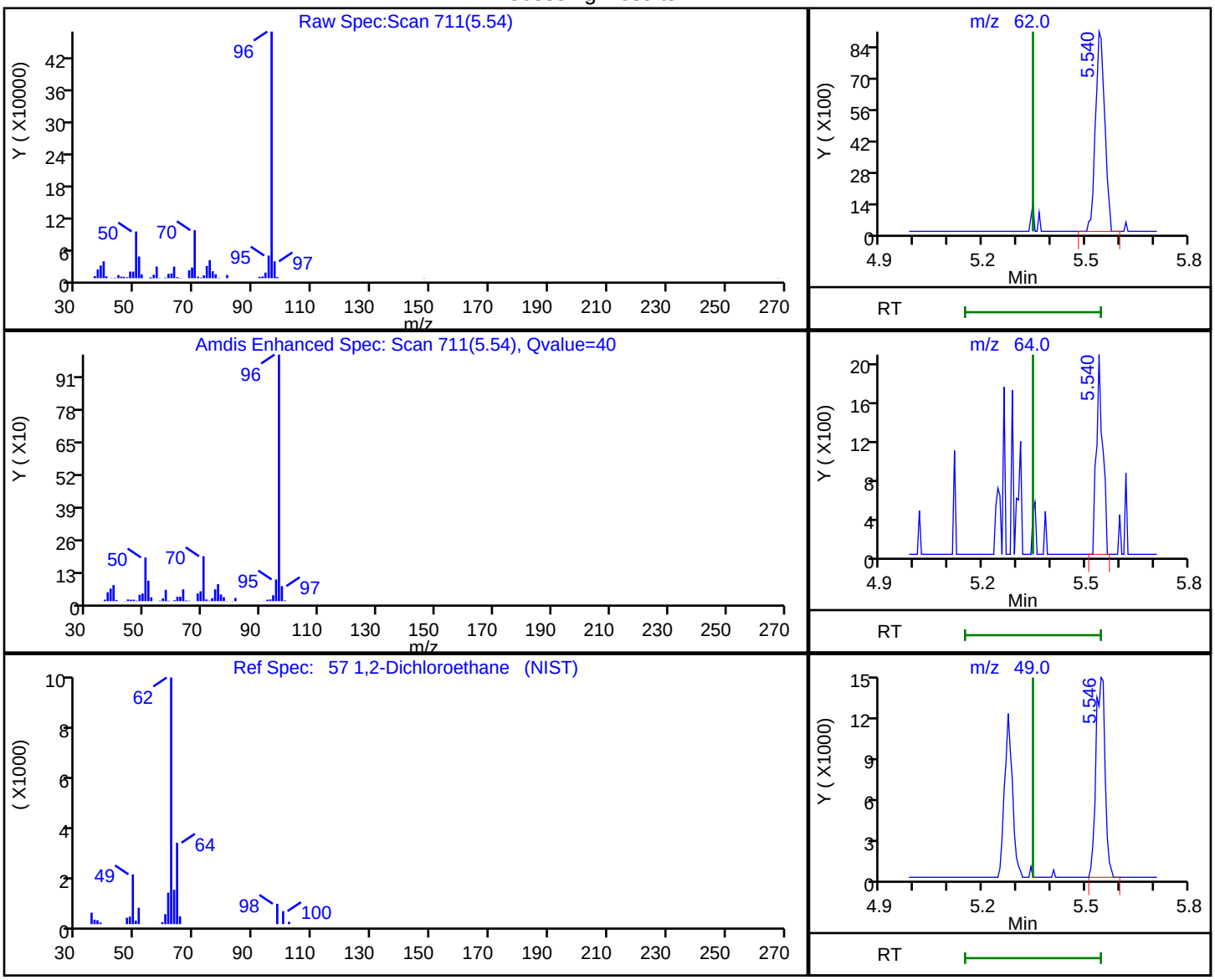
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6438.D				
Injection Date:	04-Dec-2018 14:44:30	Instrument ID:	HP5973N		
Lims ID:	480-146076-A-9	Lab Sample ID:	480-146076-9		
Client ID:	Trip Blank				
Operator ID:	AM	ALS Bottle#:	9	Worklist Smp#:	16
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

Processing Results



RT	Mass	Response	Amount
5.54	62.00	16917	1.031165
5.54	64.00	2624	
5.55	49.00	26917	

Reviewer: baroner, 04-Dec-2018 16:56:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

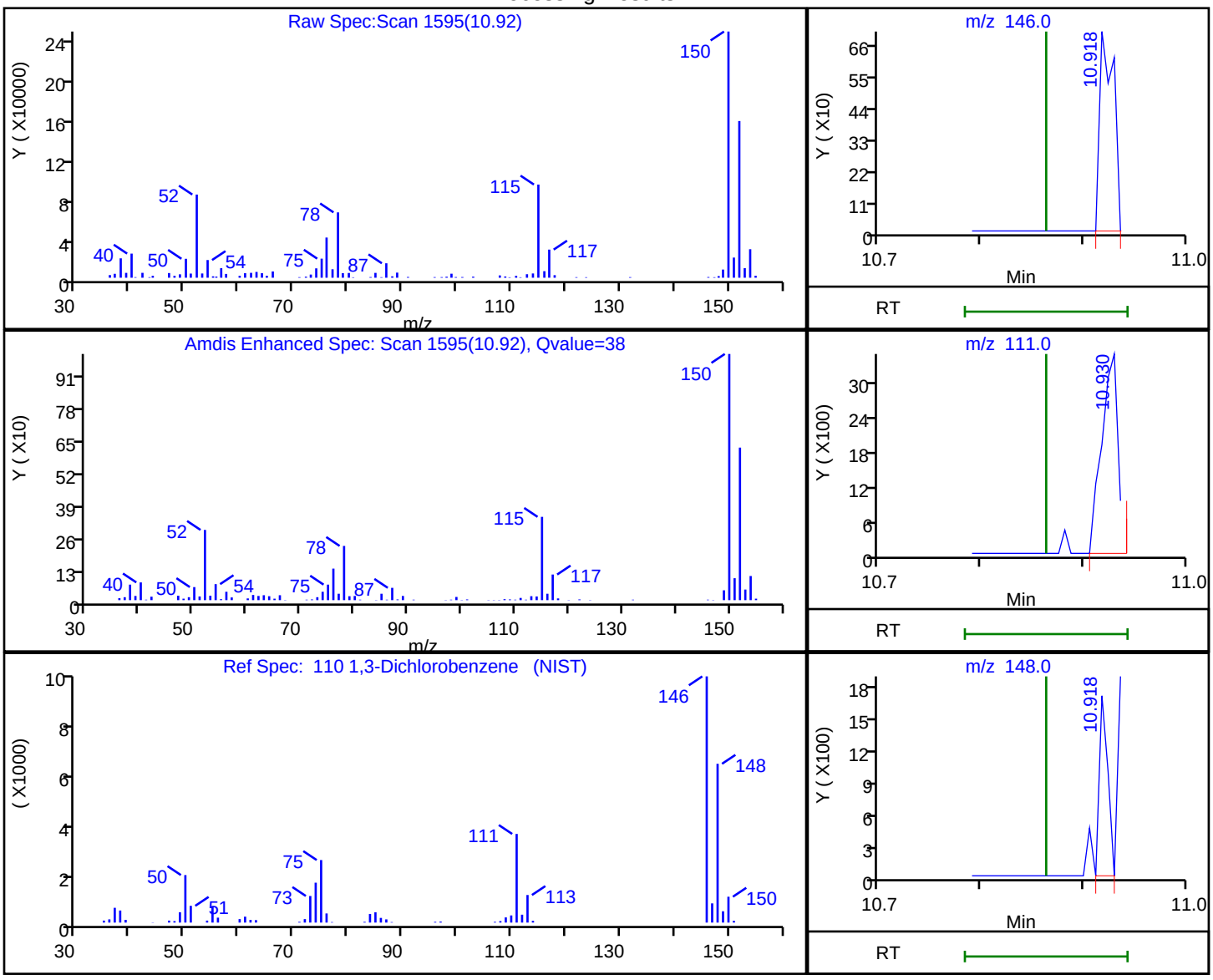
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6438.D				
Injection Date:	04-Dec-2018 14:44:30	Instrument ID:	HP5973N		
Lims ID:	480-146076-A-9	Lab Sample ID:	480-146076-9		
Client ID:	Trip Blank				
Operator ID:	AM	ALS Bottle#:	9	Worklist Smp#:	16
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		

110 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
10.92	146.00	674	0.030743
10.93	111.00	4038	
10.92	148.00	945	

Reviewer: baroner, 04-Dec-2018 16:56:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

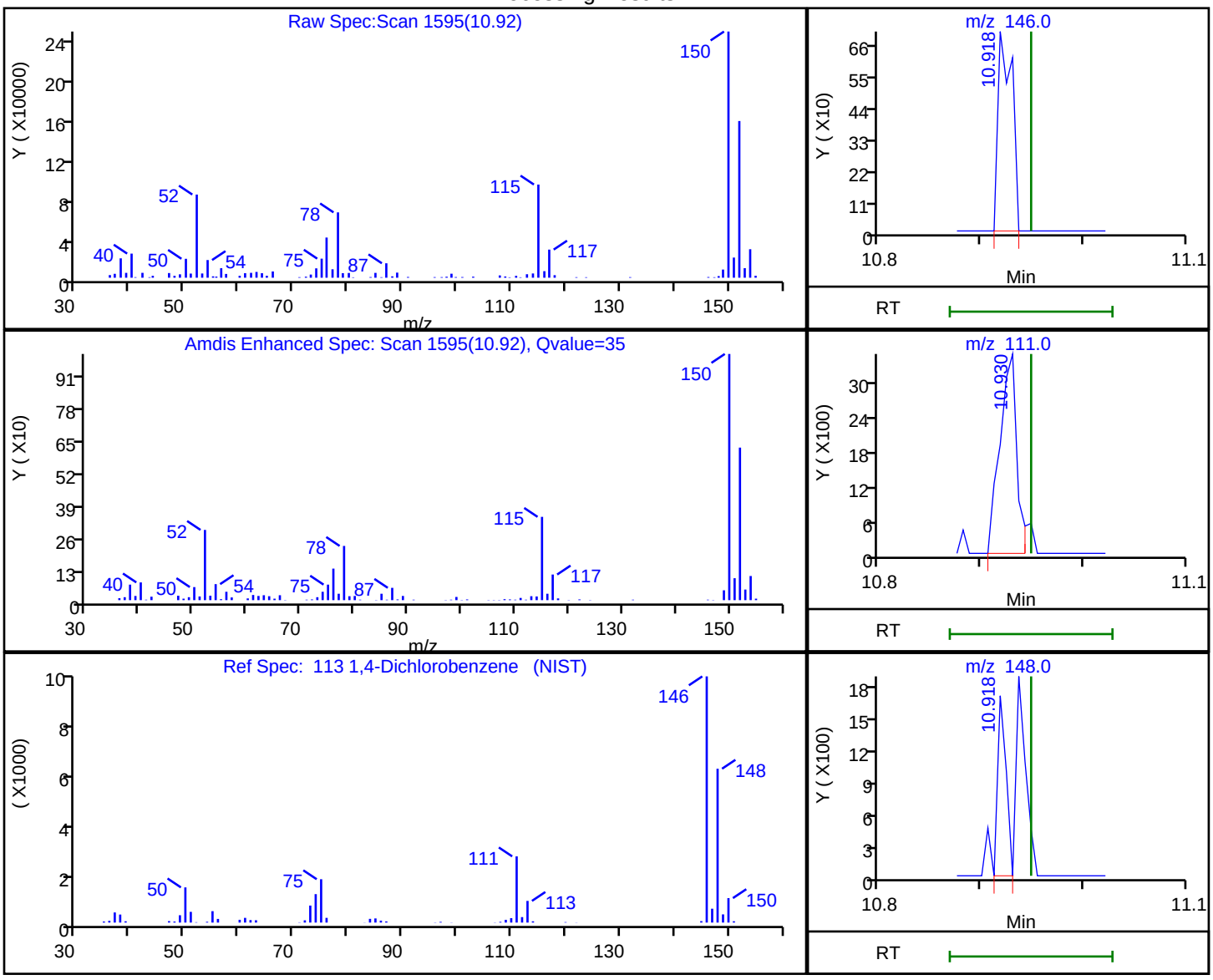
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6438.D				
Injection Date:	04-Dec-2018 14:44:30	Instrument ID:	HP5973N		
Lims ID:	480-146076-A-9	Lab Sample ID:	480-146076-9		
Client ID:	Trip Blank				
Operator ID:	AM	ALS Bottle#:	9	Worklist Smp#:	16
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

Processing Results



RT	Mass	Response	Amount
10.92	146.00	674	0.030561
10.93	111.00	4038	
10.92	148.00	945	

Reviewer: baroner, 04-Dec-2018 16:56:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

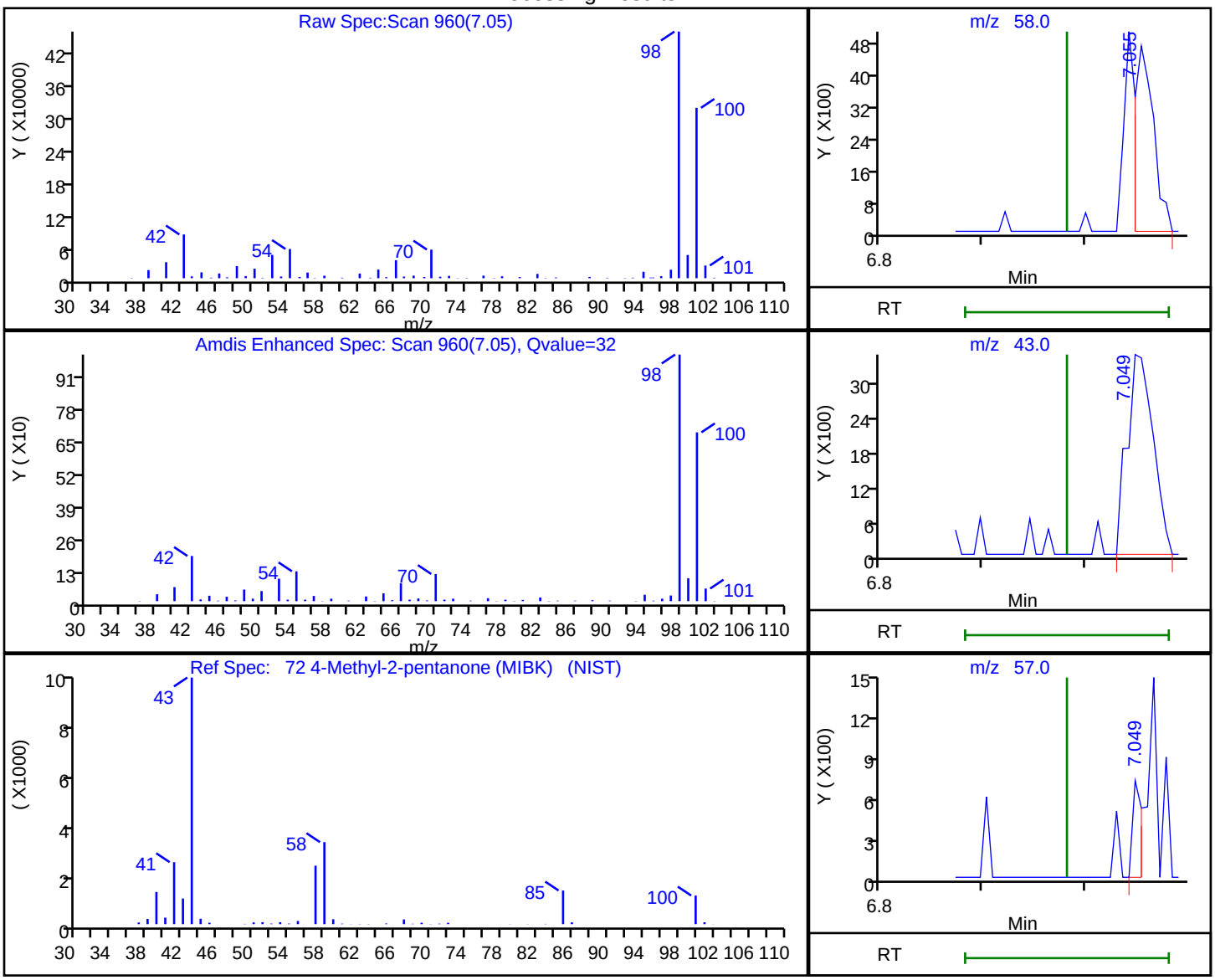
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6438.D				
Injection Date:	04-Dec-2018 14:44:30	Instrument ID:	HP5973N		
Lims ID:	480-146076-A-9	Lab Sample ID:	480-146076-9		
Client ID:	Trip Blank				
Operator ID:	AM	ALS Bottle#:	9	Worklist Smp#:	16
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		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
7.05	58.00	5947	1.238424
7.05	43.00	6174	
7.05	57.00	437	

Reviewer: baroner, 04-Dec-2018 16:56:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

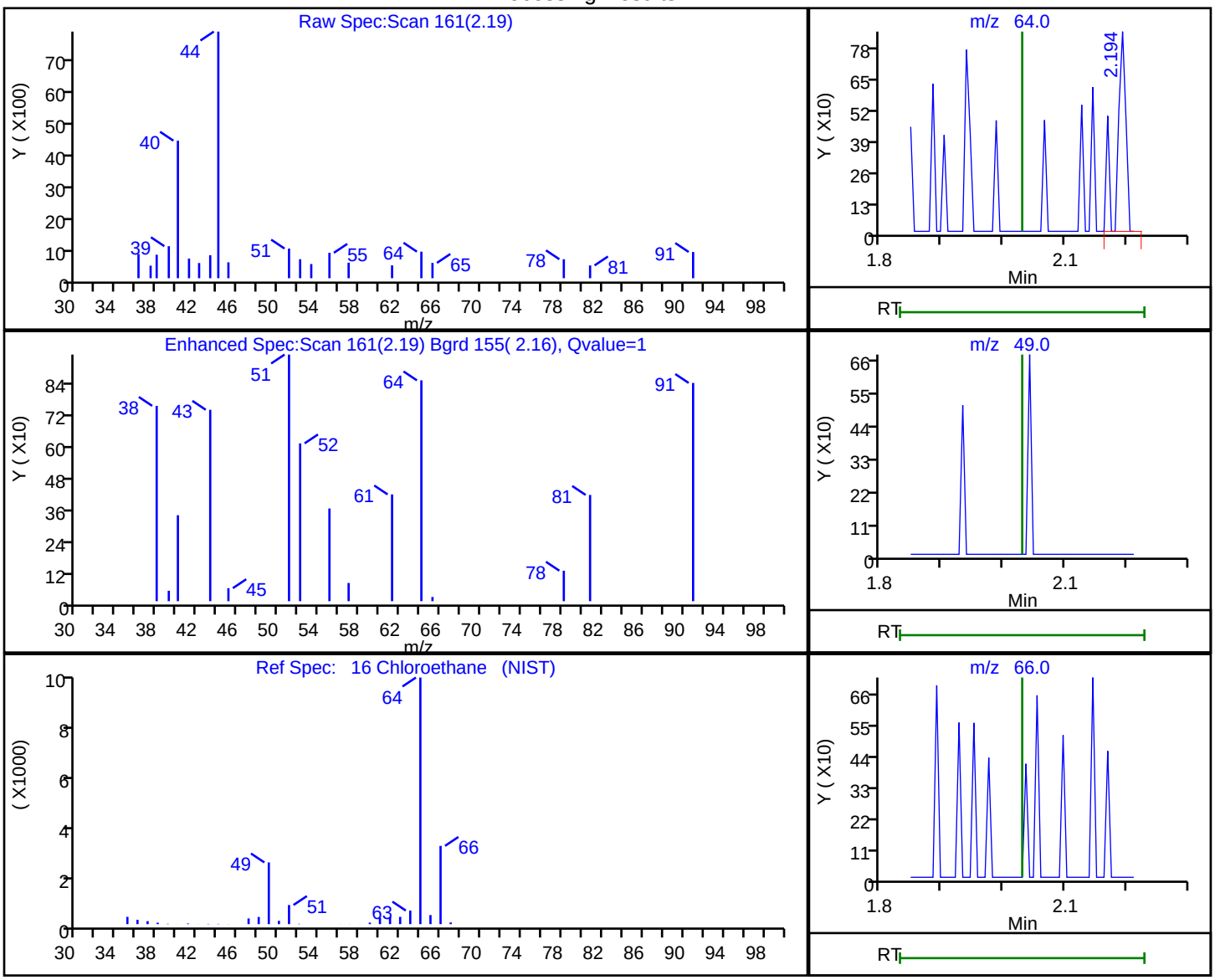
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6438.D				
Injection Date:	04-Dec-2018 14:44:30	Instrument ID:	HP5973N		
Lims ID:	480-146076-A-9	Lab Sample ID:	480-146076-9		
Client ID:	Trip Blank				
Operator ID:	AM	ALS Bottle#:	9	Worklist Smp#:	16
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

Processing Results



RT	Mass	Response	Amount
2.19	64.00	838	-0.714981
2.03	49.00	0	
2.03	66.00	0	

Reviewer: baroner, 04-Dec-2018 16:55:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 447647

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 14:34 Calibration End Date: 11/27/2018 17:43 Calibration ID: 35443

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-447647/6	N6197.D
Level 2	IC 480-447647/7	N6198.D
Level 3	IC 480-447647/8	N6199.D
Level 4	IC 480-447647/9	N6200.D
Level 5	IC 480-447647/10	N6201.D
Level 6	ICIS 480-447647/11	N6202.D
Level 7	IC 480-447647/12	N6203.D
Level 8	IC 480-447647/13	N6204.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	+++++ 1.3205	1.1065 1.1634	1.1626 1.3225	1.2184	1.1426	Ave		1.2052			0.1000	7.1		20.0			
Chloromethane	2.2442 2.1713	2.5028 2.0200	2.3071 2.2381	2.2191	2.1442	Ave		2.2309			0.1000	6.2		20.0			
Vinyl chloride	1.5735 1.5704	1.5732 1.4302	1.6229 1.6532	1.5633	1.4822	Ave		1.5586			0.1000	4.6		20.0			
Butadiene	1.4609 1.4430	1.1065 1.4360	1.5065 1.6453	1.4182	1.4853	Ave		1.4377				10.5		20.0			
Bromomethane	1.3083 0.8862	1.1619 0.8183	1.1430 0.9123	0.9606	0.9117	Ave		1.0128			0.1000	16.8		20.0			
Chloroethane	+++++ 0.9330	1.7401 0.8537	1.3374 0.9555	1.0764	0.9097	Lin1	0.7801	0.9067			0.1000				0.9970		0.9900
Trichlorofluoromethane	+++++ 1.9523	2.0329 1.7738	1.7466 2.0427	1.7585	1.8608	Ave		1.8811			0.1000	6.8		20.0			
Dichlorofluoromethane	2.2938 2.0812	2.3064 1.9576	2.3333 2.2047	2.0945	2.0823	Ave		2.1692				6.2		20.0			
Ethyl ether	1.5519 1.5752	1.6118 1.5073	1.4676 1.6016	1.6192	1.5391	Ave		1.5592				3.4		20.0			
Acrolein	0.4680 0.3331	0.3860 0.3294	0.3606 0.3605	0.3181	0.3319	Ave		0.3610				13.5		20.0			
1,1-Dichloroethene	0.8017 1.2623	1.2115 1.1862	1.1930 1.2259	1.2568	1.0533	Ave		1.1488			0.1000	13.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.2917	1.0625 1.1997	1.0396 1.2463	1.4029	1.0435	Ave		1.1837			0.1000	11.9		20.0			
Acetone	0.6037 0.5492	0.5723 0.5356	0.5175 0.6103	0.5212	0.5520	Ave		0.5577			0.1000	6.3		20.0			
Iodomethane	2.1558 2.3967	2.4812 2.3012	2.3284 2.4513	2.6045	2.2549	Ave		2.3717				6.0		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.: 480-146076-1 Analy Batch No.: 447647

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 14:34 Calibration End Date: 11/27/2018 17:43 Calibration ID: 35443

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	3.0310 3.9350	4.3714 3.7238	3.5799 4.0124	4.1092	3.3566	Ave		3.7649			0.1000	11.5		20.0			
Allyl chloride	3.3677 3.2671	3.6616 3.2143	3.3258 3.3906	3.4356	2.8697	Ave		3.3165				6.8		20.0			
Methyl acetate	2.2134 1.7170	1.8731 1.7514	1.7654 1.8813	1.8298	1.6933	Ave		1.8406			0.1000	9.0		20.0			
Methylene Chloride	5.3383 1.4848	3.0837 1.3897	2.1457 1.4240	1.8892	1.5483	Lin1	1.8543	1.3910			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1245 0.1022	0.1018 0.0948	0.0788 0.1317	0.0901	0.1002	Ave		0.1030				16.9		20.0			
Methyl tert-butyl ether	3.4042 4.6768	4.8241 4.5375	4.5422 4.7707	4.5747	4.5525	Ave		4.4853			0.1000	10.0		20.0			
trans-1,2-Dichloroethene	1.0462 1.4138	1.7206 1.3835	1.2864 1.4499	1.4749	1.3302	Ave		1.3882			0.1000	13.7		20.0			
Acrylonitrile	0.8031 0.8318	0.8877 0.7931	0.7549 0.8982	0.7807	0.7961	Ave		0.8182				6.2		20.0			
Hexane	2.0257 2.6387	2.7335 2.6272	2.4655 2.6807	2.7329	2.1140	Ave		2.5023				11.2		20.0			
1,1-Dichloroethane	2.2802 2.7946	3.1688 2.7293	2.4916 2.9138	2.9188	2.5419	Ave		2.7299			0.2000	10.4		20.0			
Vinyl acetate	3.7065 4.5362	4.0230 4.6842	3.7333 5.2689	4.1584	4.2829	Ave		4.2992				12.2		20.0			
2,2-Dichloropropane	1.6763 1.9622	2.5933 1.8232	1.8999 1.9033	1.9921	1.7786	Ave		1.9536				14.2		20.0			
cis-1,2-Dichloroethene	1.5482 1.6423	1.7478 1.5909	1.5901 1.6581	1.6406	1.5765	Ave		1.6243			0.1000	3.8		20.0			
2-Butanone (MEK)	0.9913 1.0680	0.9537 1.0036	0.9416 1.1154	1.0277	1.0245	Ave		1.0157			0.1000	5.6		20.0			
Chlorobromomethane	1.0462 0.8618	0.9780 0.8272	0.8253 0.8894	0.8346	0.8483	Ave		0.8889				9.1		20.0			
Tetrahydrofuran	0.7833 0.7293	0.8372 0.7020	0.7317 0.7255	0.6561	0.7459	Ave		0.7389				7.3		20.0			
Chloroform	2.2143 2.4786	2.4050 2.4411	2.2916 2.5843	2.5491	2.3487	Ave		2.4141			0.2000	5.2		20.0			
1,1,1-Trichloroethane	1.9678 2.2827	2.3463 2.2283	1.9231 2.3552	2.4431	2.0058	Ave		2.1940			0.1000	9.1		20.0			
Cyclohexane	2.1783 3.1529	3.3715 3.1030	2.5437 3.2172	3.0118	2.5013	Ave		2.8850			0.1000	14.6		20.0			
Carbon tetrachloride	+++++ 2.0883	2.0866 2.0326	1.7114 2.1667	2.0688	1.7536	Ave		1.9869			0.1000	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.: 480-146076-1 Analy Batch No.: 447647

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 14:34 Calibration End Date: 11/27/2018 17:43 Calibration ID: 35443

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	1.5263 1.8263	1.9469 1.8109	1.6212 1.8854	1.8845	1.6185	Ave		1.7650				8.7		20.0			
Benzene	4.7638 5.7392	6.0646 5.6386	5.6082 5.9916	5.8444	5.4006	Ave		5.6314			0.5000	7.3		20.0			
Isobutyl alcohol	+++++ 0.0748	0.0613 0.0626	0.0607 0.0821	0.0598	0.0741	Ave		0.0679				13.1		20.0			
1,2-Dichloroethane	2.4715 2.5442	2.7436 2.5172	2.4671 2.6738	2.7111	2.5220	Ave		2.5813			0.1000	4.3		20.0			
n-Heptane	2.3643 3.2643	2.4801 3.0065	2.6913 3.1778	2.9000	2.2849	Ave		2.7711				13.5		20.0			
Trichloroethene	1.2743 1.4425	1.5597 1.4082	1.4577 1.4584	1.5117	1.3591	Ave		1.4340			0.2000	6.2		20.0			
Methylcyclohexane	1.5093 2.3908	2.1572 2.3891	1.8431 2.4511	2.2324	1.9052	Ave		2.1098			0.1000	15.7		20.0			
1,2-Dichloropropane	1.4030 1.5650	1.4593 1.5237	1.4597 1.6243	1.6430	1.5039	Ave		1.5227			0.1000	5.5		20.0			
Dibromomethane	0.7660 0.9903	1.1931 0.9568	0.9221 1.0105	0.9859	0.9436	Ave		0.9710			0.1000	12.1		20.0			
1,4-Dioxane	+++++ 0.0028	+++++ 0.0026	0.0016 0.0027	0.0027	0.0028	Lin1	-0.025	0.0027							0.9980		0.9900
Bromodichloromethane	1.4293 1.8735	1.9183 1.9047	1.6619 2.0461	1.7442	1.7813	Ave		1.7949			0.2000	10.5		20.0			
2-Chloroethyl vinyl ether	1.1116 1.1374	1.1187 1.1300	1.0103 1.1932	1.0608	1.0637	Ave		1.1032				5.1		20.0			
cis-1,3-Dichloropropene	1.6559 2.2641	2.0947 2.2256	1.8741 2.3698	2.0242	2.0211	Ave		2.0662			0.2000	11.1		20.0			
4-Methyl-2-pentanone (MIBK)	0.1784 0.1991	0.1700 0.2026	0.1793 0.2102	0.2011	0.1941	Ave		0.1918			0.1000	7.4		20.0			
Toluene	0.8194 0.9010	0.9709 0.9342	0.8873 0.9385	0.9538	0.8635	Ave		0.9086			0.4000	5.6		20.0			
trans-1,3-Dichloropropene	0.3729 0.5180	0.4538 0.5344	0.4657 0.5562	0.5064	0.4897	Ave		0.4871			0.1000	11.8		20.0			
Ethyl methacrylate	0.4069 0.4578	0.3383 0.4720	0.4256 0.4903	0.4433	0.4523	Ave		0.4358				10.8		20.0			
1,1,2-Trichloroethane	0.2169 0.2530	0.2490 0.2551	0.2342 0.2692	0.2634	0.2553	Ave		0.2495			0.1000	6.7		20.0			
Tetrachloroethene	0.3267 0.4194	0.4194 0.4266	0.4027 0.4296	0.4351	0.3814	Ave		0.4051			0.2000	8.9		20.0			
1,3-Dichloropropane	0.5094 0.5262	0.4514 0.5333	0.4826 0.5444	0.5371	0.5247	Ave		0.5136				6.2		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
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 447647

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 14:34 Calibration End Date: 11/27/2018 17:43 Calibration ID: 35443

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	0.3880 0.4297	0.3993 0.4359	0.3753 0.4588	0.4175	0.4108	Ave		0.4144			0.1000	6.5		20.0			
Dibromochloromethane	0.2881 0.3626	0.3115 0.3926	0.3024 0.4154	0.3163	0.3511	Ave		0.3425			0.1000	13.3		20.0			
1,2-Dibromoethane	0.2826 0.3504	0.3131 0.3589	0.3212 0.3663	0.3380	0.3543	Ave		0.3356				8.4		20.0			
Chlorobenzene	0.8999 1.0238	1.1165 1.0530	1.0206 1.0717	1.0087	1.0113	Ave		1.0257			0.5000	6.1		20.0			
Ethylbenzene	1.3935 1.6726	1.7419 1.7171	1.5511 1.7845	1.7569	1.5896	Ave		1.6509			0.1000	8.0		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3819	0.3451 0.4020	0.3561 0.4111	0.3902	0.3676	Ave		0.3791				6.4		20.0			
m,p-Xylene	0.4582 0.6823	0.6490 0.7083	0.6792 0.7084	0.6864	0.6503	Ave		0.6528			0.1000	12.5		20.0			
o-Xylene	0.6732 0.6735	0.6967 0.6972	0.6320 0.7039	0.6774	0.6524	Ave		0.6758			0.3000	3.6		20.0			
Styrene	0.8234 1.1155	1.1266 1.1519	0.9812 1.1983	1.1670	1.0620	Ave		1.0782			0.3000	11.4		20.0			
Bromoform	0.1673 0.2277	0.1886 0.2391	0.1782 0.2634	0.2058	0.1999	Ave		0.2087			0.1000	15.6		20.0			
Isopropylbenzene	2.6565 3.4219	3.1485 3.4253	3.0825 3.6484	3.5032	3.0612	Ave		3.2434			0.1000	9.8		20.0			
Bromobenzene	0.8983 0.9269	1.0412 0.9045	0.8754 0.9599	0.9273	0.8745	Ave		0.9260				5.9		20.0			
1,1,2,2-Tetrachloroethane	0.7896 0.8094	0.7607 0.7923	0.7293 0.8146	0.7464	0.7629	Ave		0.7757			0.3000	3.9		20.0			
N-Propylbenzene	2.9038 3.7714	3.5793 3.7668	3.4989 4.0081	3.8828	3.3395	Ave		3.5938				9.8		20.0			
1,2,3-Trichloropropane	0.3361 0.2708	0.2976 0.2651	0.2647 0.2743	0.2794	0.2824	Ave		0.2838				8.3		20.0			
trans-1,4-Dichloro-2-butene	0.3216 0.3582	0.3645 0.3649	0.2942 0.4013	0.3599	0.3541	Ave		0.3523				9.1		20.0			
2-Chlorotoluene	0.6461 0.8309	0.7926 0.8210	0.7882 0.8448	0.8609	0.7457	Ave		0.7913				8.7		20.0			
1,3,5-Trimethylbenzene	2.1738 2.8594	2.6643 2.8715	2.6348 3.0368	2.7762	2.6527	Ave		2.7087				9.4		20.0			
4-Chlorotoluene	2.1799 2.3048	2.2906 2.3274	2.1323 2.4730	2.2307	2.1287	Ave		2.2584				5.1		20.0			
tert-Butylbenzene	0.5043 0.6579	0.5917 0.6439	0.5776 0.6789	0.6971	0.6112	Ave		0.6203				10.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 447647

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 14:34 Calibration End Date: 11/27/2018 17:43 Calibration ID: 35443

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	2.2355 2.9769	2.7300 2.9553	2.6864 3.1394	3.0123	2.7408	Ave		2.8096				10.0		20.0			
sec-Butylbenzene	2.9419 3.6066	3.2573 3.6361	3.2490 3.8049	3.5210	3.1847	Ave		3.4002				8.4		20.0			
4-Isopropyltoluene	2.2722 3.2170	2.8508 3.2238	2.8222 3.3957	3.0091	2.8326	Ave		2.9529				11.8		20.0			
1,3-Dichlorobenzene	1.6481 1.6600	1.6637 1.6497	1.5247 1.7754	1.6931	1.6154	Ave		1.6538			0.6000	4.3		20.0			
1,4-Dichlorobenzene	1.4337 1.7133	1.7897 1.6938	1.5782 1.7980	1.6549	1.6473	Ave		1.6636			0.5000	7.1		20.0			
n-Butylbenzene	1.9513 2.6512	2.1162 2.6367	2.3237 2.7309	2.5528	2.2336	Ave		2.3996				11.9		20.0			
1,2-Dichlorobenzene	1.3332 1.6477	1.4604 1.6278	1.5031 1.7071	1.6646	1.6213	Ave		1.5706			0.4000	8.1		20.0			
1,2-Dibromo-3-Chloropropane	0.0995 0.1323	0.1384 0.1360	0.1225 0.1471	0.1313	0.1279	Ave		0.1294			0.0500	10.9		20.0			
1,2,4-Trichlorobenzene	0.9488 1.1953	1.2187 1.1889	1.1869 1.2071	1.2000	1.1657	Ave		1.1639			0.2000	7.6		20.0			
Hexachlorobutadiene	+++++ 0.5198	0.4030 0.5082	0.4576 0.4881	0.4803	0.4583	Ave		0.4736				8.2		20.0			
Naphthalene	2.5683 3.0649	2.7249 3.0750	2.6798 3.3165	2.9241	2.8812	Ave		2.9043				8.4		20.0			
1,2,3-Trichlorobenzene	1.0533 1.1246	1.1028 1.1059	1.0789 1.1645	1.1462	1.0922	Ave		1.1086				3.2		20.0			
Dibromofluoromethane (Surr)	1.2914 1.3119	1.3515 1.3120	1.2781 1.3378	1.3165	1.2781	Ave		1.3097				2.0		20.0			
1,2-Dichloroethane-d4 (Surr)	1.7687 1.8342	1.8919 1.7764	1.7911 1.7624	1.8353	1.7593	Ave		1.8024				2.6		20.0			
Toluene-d8 (Surr)	1.2701 1.2561	1.2831 1.2904	1.2973 1.2925	1.2967	1.3025	Ave		1.2861				1.2		20.0			
4-Bromofluorobenzene (Surr)	0.4099 0.4010	0.4126 0.4112	0.4106 0.4132	0.4033	0.4114	Ave		0.4092				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.: 480-146076-1 Analy Batch No.: 447647

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 14:34 Calibration End Date: 11/27/2018 17:43 Calibration ID: 35443

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-447647/6	N6197.D
Level 2	IC 480-447647/7	N6198.D
Level 3	IC 480-447647/8	N6199.D
Level 4	IC 480-447647/9	N6200.D
Level 5	IC 480-447647/10	N6201.D
Level 6	ICIS 480-447647/11	N6202.D
Level 7	IC 480-447647/12	N6203.D
Level 8	IC 480-447647/13	N6204.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	+++++ 226920	7274 423546	16101 941401	41394	78933	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	7793 373144	16453 735443	31950 1593097	75390	148123	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	5464 269878	10342 520683	22475 1176742	53112	102389	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	5073 247986	7274 522805	20863 1171110	48181	102601	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	4543 152297	7638 297927	15829 649382	32635	62980	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Lin1	+++++ 160330	11439 310797	18522 680152	36569	62839	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	+++++ 335507	13364 645803	24189 1454036	59742	128545	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	7965 357647	15162 712720	32313 1569318	71159	143844	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	5389 270697	10596 548755	20324 1140009	55009	106320	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	8126 286253	12687 599700	24968 1283101	54035	114633	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	2784 216924	7964 431848	16522 872586	42697	72761	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	+++++ 221976	6985 436774	14397 887110	47661	72082	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	10482 471906	18811 974929	35836 2172003	88537	190674	2.50 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	7486 411871	16311 837800	32245 1744834	88485	155766	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	10525 676226	28737 1355743	49577 2856091	139603	231872	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.: 480-146076-1 Analy Batch No.: 447647

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 14:34 Calibration End Date: 11/27/2018 17:43 Calibration ID: 35443

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	11694 561444	24071 1170241	46058 2413446	116720	198241	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	15372 590150	24627 1275263	48897 2678288	124329	233945	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	18537 255157	20272 505964	29715 1013648	64183	106953	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	4323 175666	6693 345119	10916 937313	30617	69239	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	11821 803702	31713 1651987	62904 3395822	155418	314482	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3633 242967	11311 503698	17815 1032052	50107	91893	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	27887 1429366	58355 2887578	104549 6393572	265242	549975	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	7034 453469	17970 956504	34144 1908152	92847	146037	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	7918 480250	20831 993657	34505 2074094	99161	175595	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	25741 1559094	52894 3410770	103404 7500939	282553	591720	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	5821 337209	17048 663763	26311 1354808	67678	122866	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	5376 282223	11490 579191	22021 1180214	55737	108902	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	17212 917659	31348 1826950	65199 3969885	174565	353866	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	3633 148097	6429 301157	11430 633116	28354	58600	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	5440 250677	11007 511158	20267 1032772	44577	103058	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	7689 425951	15810 888738	31736 1839542	86602	162246	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	6833 392285	15424 811263	26632 1676469	83002	138563	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	7564 541829	22164 1129731	35227 2290001	102321	172787	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	+++++ 358872	13717 740022	23701 1542291	70285	121141	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	5300 313843	12799 659293	22451 1342028	64024	111806	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	16542 986281	39868 2052851	77667 4264857	198557	373071	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.: 480-146076-1 Analy Batch No.: 447647

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 14:34 Calibration End Date: 11/27/2018 17:43 Calibration ID: 35443

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
Isobutyl alcohol	FB	Ave	+++++ 321178	10078 570188	21001 1461114	50801	127928	+++++ 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	8582 437217	18036 916458	34166 1903225	92106	174217	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	8210 560978	16304 1094569	37271 2261957	98524	157838	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	4425 247893	10253 512688	20188 1038097	51358	93886	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	5241 410858	14181 869813	25525 1744711	75841	131608	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	4872 268937	9593 554720	20215 1156202	55818	103892	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2660 170176	7843 348337	12770 719276	33496	65185	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Lin1	+++++ 38665	+++++ 73617	1707 155125	6973	14809	+++++ 500	+++++ 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	4963 321963	12611 693459	23016 1456464	59256	123050	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	3860 195456	7354 411403	13992 849335	36039	73481	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	5750 389094	13770 810276	25954 1686811	68771	139617	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	12169 690927	22415 1447109	47727 3063752	131636	260778	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	11179 625399	25603 1334790	47236 2736097	124883	232049	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5087 359536	11967 763600	24791 1621634	66303	131594	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	5551 317781	8921 674443	22660 1429327	58043	121537	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	2959 175594	6567 364517	12467 784788	34483	68600	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	4457 291107	11061 609473	21438 1252456	56967	102488	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	6950 365258	11905 762039	25690 1587094	70321	140991	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	26464 1491363	52656 3114002	99898 6688520	273320	551923	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	3930 251718	8214 560938	16097 1211132	41415	94356	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	3856 243238	8257 512771	17098 1067906	44260	95216	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.: 480-146076-1 Analy Batch No.: 447647

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 14:34 Calibration End Date: 11/27/2018 17:43 Calibration ID: 35443

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	12277 710629	29443 1504603	54332 3124366	132076	271772	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	19012 1160947	45935 2453403	82577 5202540	230030	427185	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 265074	9101 574345	18957 1198510	51091	98797	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	6251 473589	17115 1012061	36158 2065150	89867	174762	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	9184 467488	18372 996195	33643 2052079	88688	175319	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	11234 774265	29709 1645827	52237 3493604	152800	285394	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2282 158072	4974 341683	9485 767763	26943	53717	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	18686 1233535	43288 2612076	84917 5488713	242361	432034	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	6319 334119	14315 689772	24115 1444118	64153	123412	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	5554 291793	10459 604199	20091 1225441	51638	107670	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	20426 1359547	49210 2872510	96388 6029872	268625	471300	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	2364 97624	4091 202141	7291 412723	19329	39854	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2262 129119	5012 278256	8105 603686	24901	49977	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	4545 299522	10897 626055	21712 1270883	59563	105247	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	15291 1030765	36630 2189733	72584 4568602	192067	374375	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	15334 830866	31492 1774845	58740 3720415	154327	300419	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	3547 237148	8135 491063	15911 1021362	48230	86262	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	15725 1073128	37534 2253660	74005 4722998	208397	386809	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	20694 1300117	44784 2772826	89502 5724137	243596	449455	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	15983 1159678	39194 2458440	77746 5108495	208182	399772	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	11593 598420	22873 1258018	42002 2670962	117133	227986	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.: 480-146076-1 Analy Batch No.: 447647

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/27/2018 14:34 Calibration End Date: 11/27/2018 17:43 Calibration ID: 35443

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	10085 617617	24606 1291655	43476 2704951	114493	232483	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	13726 955721	29095 2010673	64014 4108335	176610	315227	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	9378 593955	20078 1241314	41407 2568215	115159	228816	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	700 47703	1903 103684	3375 221246	9083	18045	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	6674 430878	16756 906625	32696 1815946	83023	164515	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 187396	5541 387545	12607 734248	33228	64679	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	18066 1104854	37463 2344965	73822 4989428	202295	406629	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	7409 405400	15162 843356	29722 1751946	79298	154142	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	224220 225445	222111 238834	221244 238057	223637	220735	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	307080 315215	310927 323367	310053 313626	311751	303829	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	866414 871840	845894 921871	863316 942059	848885	875059	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	279608 278327	272034 293801	273251 301133	263995	276400	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Lims ID: IC 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Nov-2018 14:34:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.5
Misc. Info.: 480-0076774-006
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2018 12:49:20 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0326

First Level Reviewer: baroner Date: 27-Nov-2018 21:33:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.546	5.546	0.000	98	173622	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	89	682149	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.930	10.930	0.000	96	351708	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.962	4.962	0.000	93	224220	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.273	5.272	0.000	0	307080	25.0	24.5	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	866414	25.0	24.7	
$ 7 4-Bromofluorobenzene (Surr	174	9.799	9.798	0.001	94	279608	25.0	25.0	
11 Dichlorodifluoromethane	85	1.330	1.330	0.000	48	2746	0.5000	0.3281	
13 Chloromethane	50	1.531	1.513	0.018	8	7793	0.5000	0.5030	Ma
14 Vinyl chloride	62	1.628	1.604	0.024	40	5464	0.5000	0.5048	
144 Butadiene	54	1.628	1.646	-0.018	37	5073	0.5000	0.5081	a
15 Bromomethane	94	1.939	1.945	-0.006	15	4543	0.5000	0.6459	M
16 Chloroethane	64	2.030	2.030	0.000	54	6108	0.5000	0.1096	M
18 Trichlorofluoromethane	101	2.219	2.231	-0.011	1	4148	0.5000	0.3175	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	19	7965	0.5000	0.5287	
19 Ethyl ether	59	2.535	2.535	0.000	69	5389	0.5000	0.4977	
20 Acrolein	56	2.723	2.723	0.000	66	8126	2.50	3.24	
22 1,1-Dichloroethene	96	2.766	2.754	0.012	1	2784	0.5000	0.3489	a
21 1,1,2-Trichloro-1,2,2-trif	101	2.760	2.766	-0.006	1	2612	0.5000	0.3177	Ma
23 Acetone	43	2.888	2.888	0.000	80	10482	2.50	2.71	
24 Iodomethane	142	2.918	2.918	0.000	69	7486	0.5000	0.4545	
25 Carbon disulfide	76	2.955	2.954	0.001	83	10525	0.5000	0.4025	M
27 3-Chloro-1-propene	41	3.125	3.137	-0.012	77	11694	0.5000	0.5077	
28 Methyl acetate	43	3.186	3.186	0.000	97	15372	1.00	1.20	Ma
30 Methylene Chloride	84	3.283	3.283	0.000	91	18537	0.5000	0.5858	
31 2-Methyl-2-propanol	59	3.460	3.459	0.001	21	4323	5.00	6.04	M
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	91	11821	0.5000	0.3795	
33 trans-1,2-Dichloroethene	96	3.514	3.508	0.006	88	3633	0.5000	0.3768	
34 Acrylonitrile	53	3.575	3.575	0.000	97	27887	5.00	4.91	
35 Hexane	57	3.709	3.703	0.006	87	7034	0.5000	0.4048	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	3.928	3.934	-0.006	46	7918	0.5000	0.4176	
39 Vinyl acetate	43	3.989	3.989	0.000	95	25741	1.00	0.8621	
42 2,2-Dichloropropane	77	4.451	4.451	0.000	8	5821	0.5000	0.4290	
43 cis-1,2-Dichloroethene	96	4.494	4.494	0.000	81	5376	0.5000	0.4766	
44 2-Butanone (MEK)	43	4.530	4.530	0.000	95	17212	2.50	2.44	
47 Chlorobromomethane	128	4.731	4.731	0.000	86	3633	0.5000	0.5885	
49 Tetrahydrofuran	42	4.761	4.749	0.012	32	5440	1.00	1.06	M
50 Chloroform	83	4.810	4.804	0.006	83	7689	0.5000	0.4586	
51 1,1,1-Trichloroethane	97	4.914	4.913	0.001	87	6833	0.5000	0.4484	
52 Cyclohexane	56	4.914	4.919	-0.005	84	7564	0.5000	0.3775	
53 Carbon tetrachloride	117	5.053	5.047	0.006	91	4231	0.5000	0.3066	
54 1,1-Dichloropropene	75	5.066	5.065	0.001	88	5300	0.5000	0.4324	
55 Benzene	78	5.279	5.272	0.007	41	16542	0.5000	0.4230	
56 Isobutyl alcohol	43		5.297				ND	ND	
57 1,2-Dichloroethane	62	5.346	5.345	0.001	93	8582	0.5000	0.4787	
59 n-Heptane	43	5.443	5.443	0.000	87	8210	0.5000	0.4266	
60 Trichloroethene	95	5.887	5.881	0.006	90	4425	0.5000	0.4443	
62 Methylcyclohexane	83	5.996	5.996	0.000	89	5241	0.5000	0.3577	
63 1,2-Dichloropropane	63	6.124	6.124	0.000	84	4872	0.5000	0.4607	M
64 Dibromomethane	93	6.264	6.270	-0.006	50	2660	0.5000	0.3944	M
66 1,4-Dioxane	88		6.276				ND	ND	
67 Dichlorobromomethane	83	6.428	6.422	0.006	89	4963	0.5000	0.3981	
69 2-Chloroethyl vinyl ether	63	6.690	6.696	-0.006	1	3860	0.5000	0.5038	M
71 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	76	5750	0.5000	0.4007	
72 4-Methyl-2-pentanone (MIBK	58	6.982	6.982	0.000	98	12169	2.50	2.32	
73 Toluene	92	7.122	7.122	0.000	98	11179	0.5000	0.4509	
75 trans-1,3-Dichloropropene	75	7.408	7.402	0.006	84	5087	0.5000	0.3827	
77 Ethyl methacrylate	69	7.450	7.444	0.006	86	5551	0.5000	0.4668	
78 1,1,2-Trichloroethane	83	7.596	7.596	0.000	3	2959	0.5000	0.4346	
79 Tetrachloroethene	166	7.657	7.651	0.006	86	4457	0.5000	0.4032	
80 1,3-Dichloropropane	76	7.761	7.760	0.001	88	6950	0.5000	0.4959	
82 2-Hexanone	43	7.828	7.821	0.007	97	26464	2.50	2.34	
83 Chlorodibromomethane	129	8.010	7.998	0.012	1	3930	0.5000	0.4205	
84 Ethylene Dibromide	107	8.107	8.101	0.006	95	3856	0.5000	0.4211	
85 Chlorobenzene	112	8.576	8.576	0.000	87	12277	0.5000	0.4387	
88 Ethylbenzene	91	8.661	8.667	-0.006	97	19012	0.5000	0.4221	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	46	3179	0.5000	0.3073	
90 m-Xylene & p-Xylene	106	8.783	8.789	-0.006	95	6251	0.5000	0.3510	
91 o-Xylene	106	9.215	9.214	0.001	93	9184	0.5000	0.4981	
92 Styrene	104	9.245	9.245	0.000	90	11234	0.5000	0.3818	
93 Bromoform	173	9.501	9.506	-0.005	29	2282	0.5000	0.4007	
95 Isopropylbenzene	105	9.604	9.598	0.006	95	18686	0.5000	0.4095	
97 Bromobenzene	156	9.945	9.944	0.001	76	6319	0.5000	0.4851	
98 1,1,2,2-Tetrachloroethane	83	9.999	10.005	-0.006	86	5554	0.5000	0.5090	
100 N-Propylbenzene	91	10.018	10.024	-0.006	97	20426	0.5000	0.4040	
99 1,2,3-Trichloropropane	110	10.036	10.036	0.000	57	2364	0.5000	0.5921	
101 trans-1,4-Dichloro-2-buten	53	10.042	10.048	-0.006	1	2262	0.5000	0.4563	
102 2-Chlorotoluene	126	10.121	10.127	-0.006	93	4545	0.5000	0.4083	M
104 1,3,5-Trimethylbenzene	105	10.194	10.194	0.000	95	15291	0.5000	0.4013	
105 4-Chlorotoluene	91	10.237	10.237	0.001	97	15334	0.5000	0.4826	
106 tert-Butylbenzene	134	10.504	10.510	-0.006	91	3547	0.5000	0.4064	
108 1,2,4-Trimethylbenzene	105	10.565	10.571	-0.006	95	15725	0.5000	0.3978	

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	10.723	10.723	0.000	93	20694	0.5000	0.4326	
110 1,3-Dichlorobenzene	146	10.863	10.863	0.000	85	11593	0.5000	0.4983	
111 4-Isopropyltoluene	119	10.857	10.863	-0.006	95	15983	0.5000	0.3847	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	87	10085	0.5000	0.4309	
115 n-Butylbenzene	91	11.247	11.246	0.001	95	13726	0.5000	0.4066	
116 1,2-Dichlorobenzene	146	11.301	11.301	0.000	89	9378	0.5000	0.4244	
117 1,2-Dibromo-3-Chloropropan	75	12.025	12.031	-0.006	1	700	0.5000	0.3846	
119 1,2,4-Trichlorobenzene	180	12.707	12.706	0.001	92	6674	0.5000	0.4076	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	78	2152	0.5000	0.3230	
121 Naphthalene	128	12.920	12.919	0.001	96	18066	0.5000	0.4422	
122 1,2,3-Trichlorobenzene	180	13.120	13.120	0.000	93	7409	0.5000	0.4751	
S 124 1,2-Dichloroethene, Total	1				0			0.8534	
S 125 Total BTEX	1				0			2.14	
S 126 Xylenes, Total	1				0			0.8490	
S 123 1,3-Dichloropropene, Total	1				0			0.7834	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00141	Amount Added:	0.50	Units: uL	
GAS CORP mix_00314	Amount Added:	0.50	Units: uL	
N_8260_Surr_00354	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00134	Amount Added:	1.00	Units: uL	Run Reagent

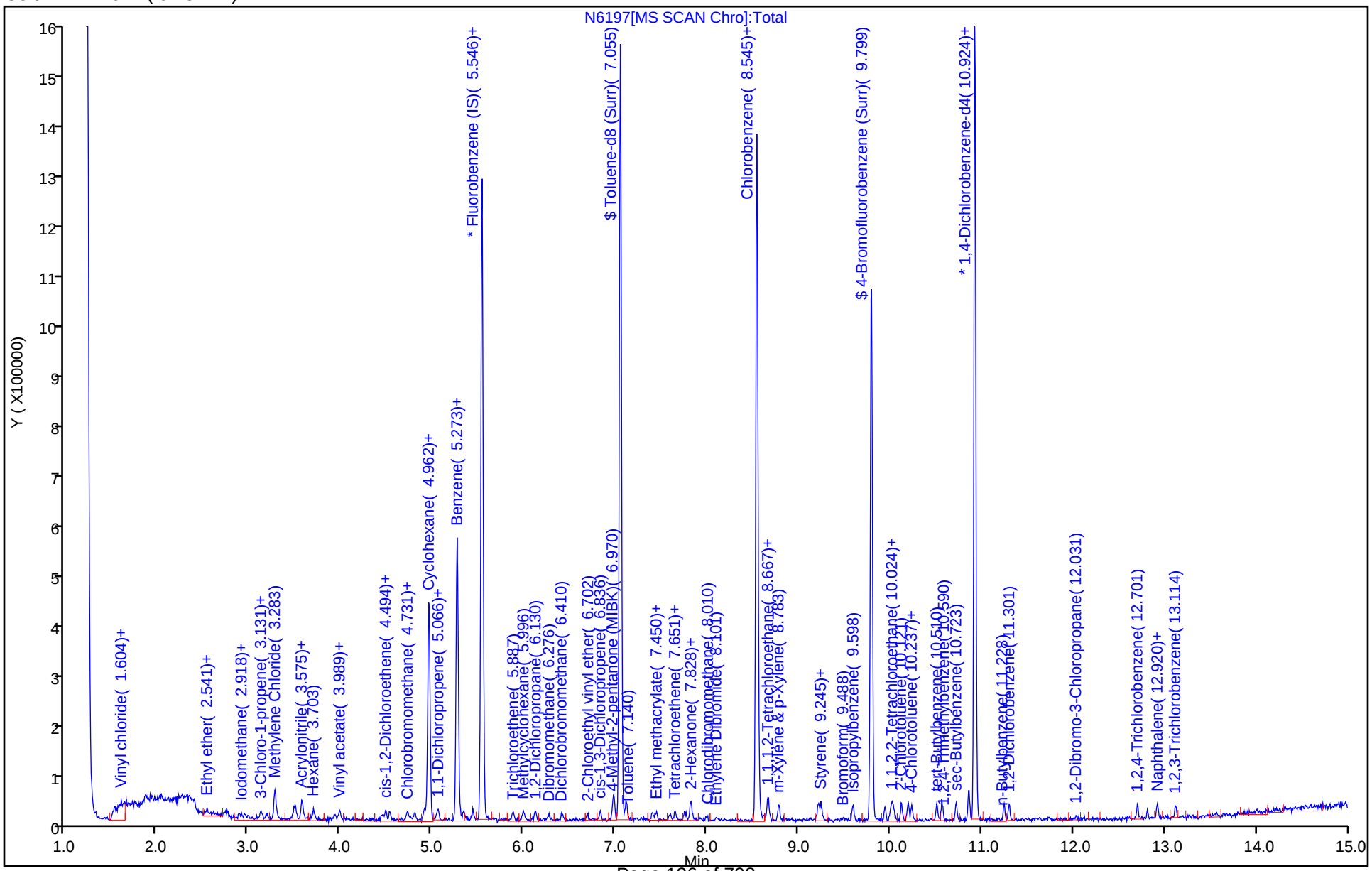
Report Date: 28-Nov-2018 12:49:22 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D

Injection Date:	27-Nov-2018 14:34:30	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#:	3
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

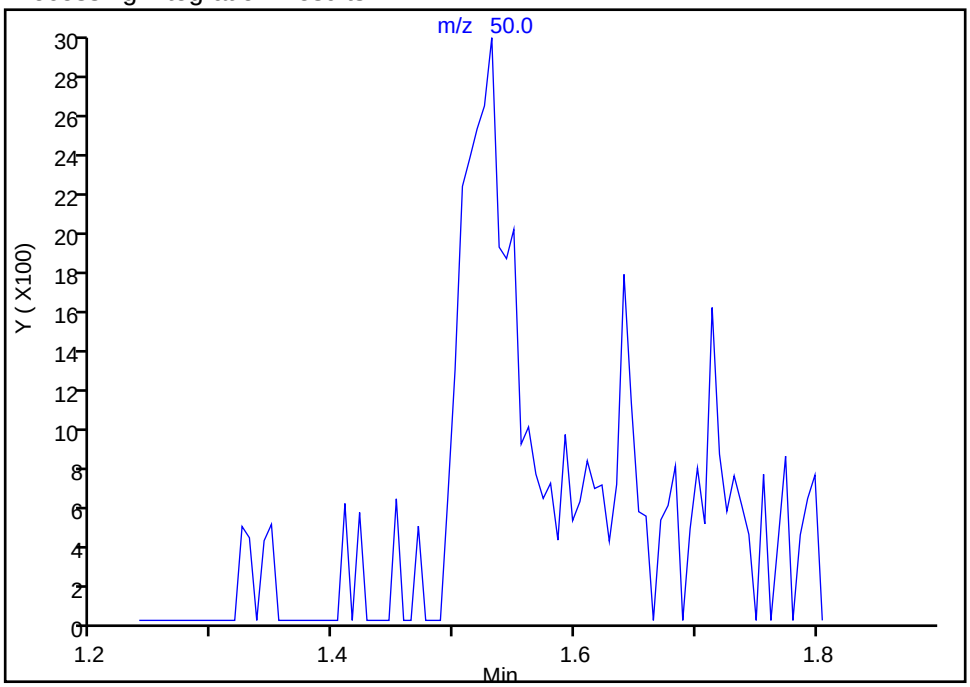
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

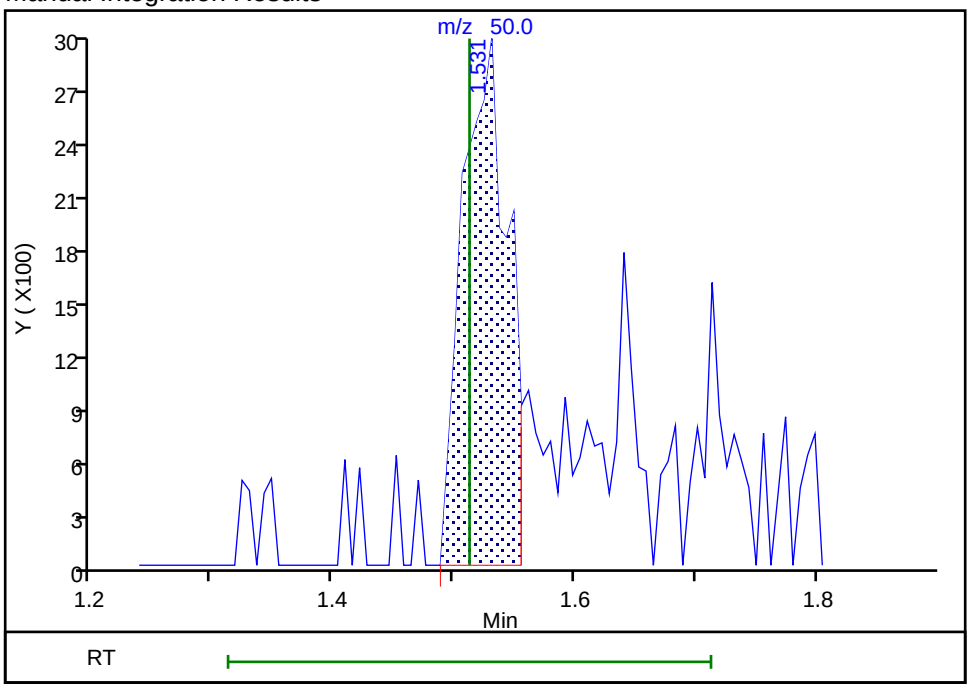
Not Detected
Expected RT: 1.51

Processing Integration Results



Manual Integration Results

RT: 1.53
Area: 7793
Amount: 0.503000
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:29:54
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

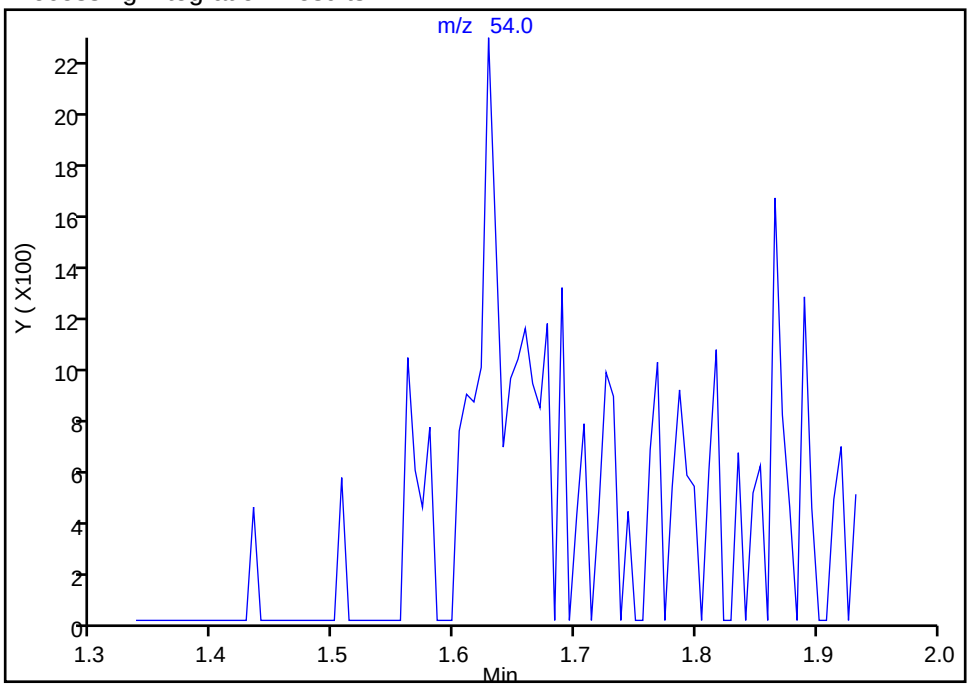
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

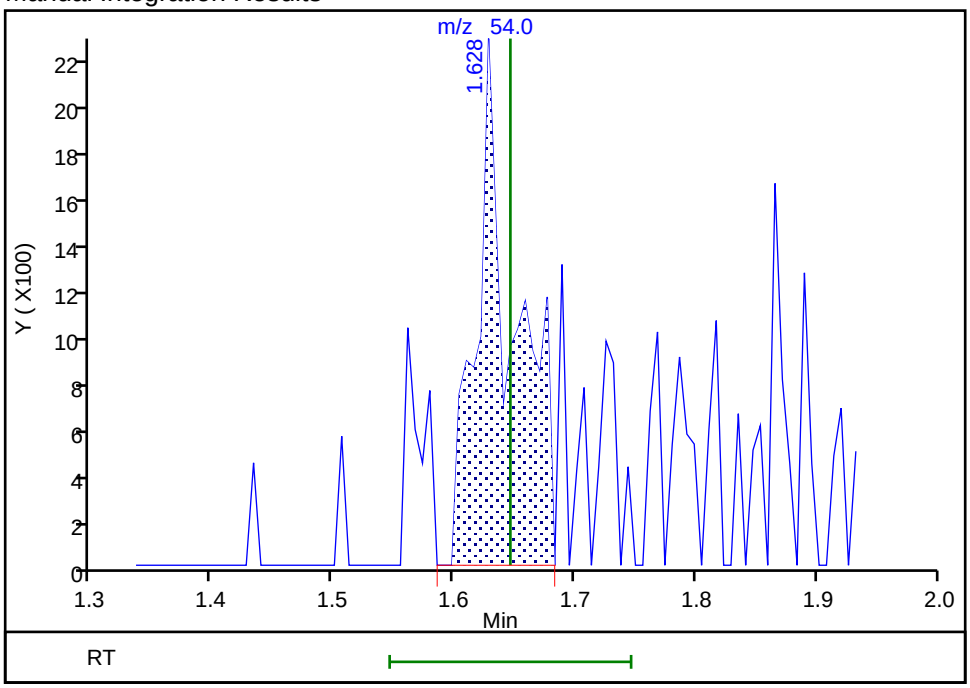
Not Detected
Expected RT: 1.65

Processing Integration Results



Manual Integration Results

RT: 1.63
Area: 5073
Amount: 0.508077
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:30:02
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

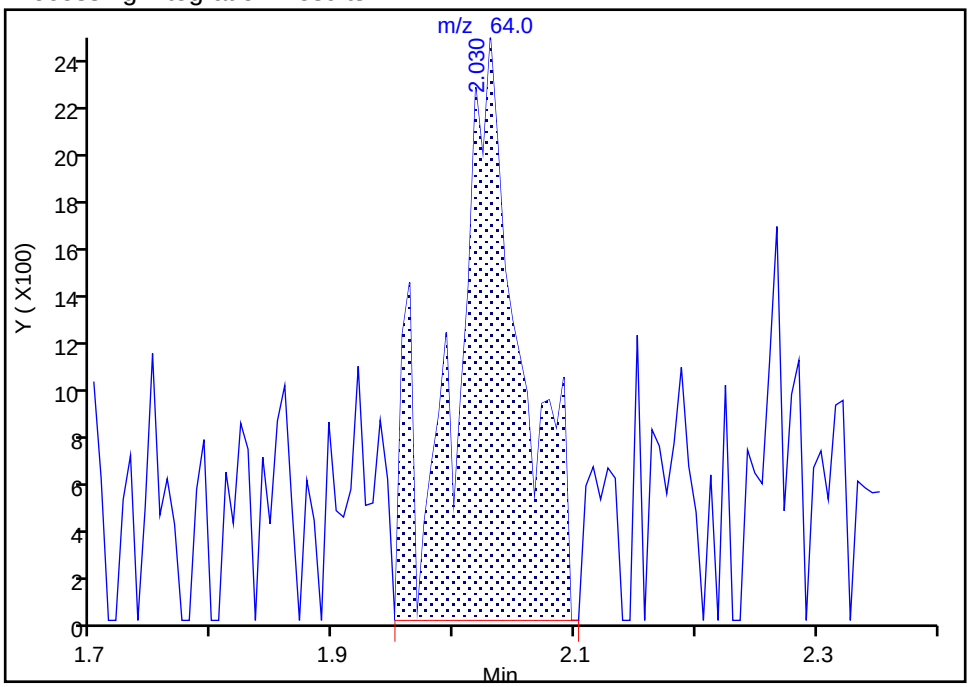
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

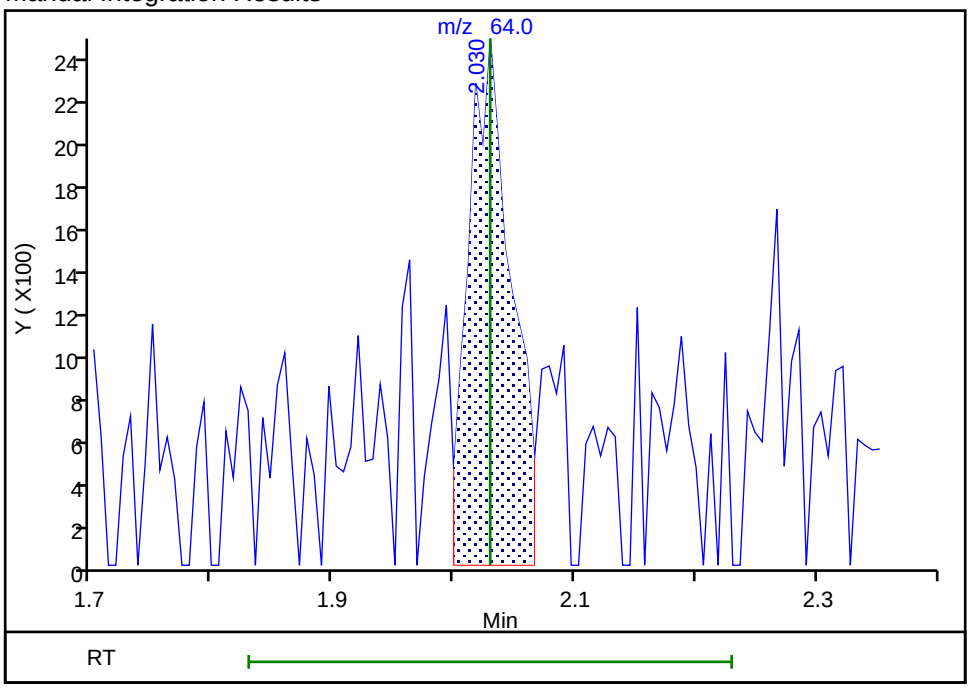
Processing Integration Results

RT: 2.03
Area: 9548
Amount: 1.042558
Amount Units: ug/L



Manual Integration Results

RT: 2.03
Area: 6108
Amount: 0.109597
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:31:34
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

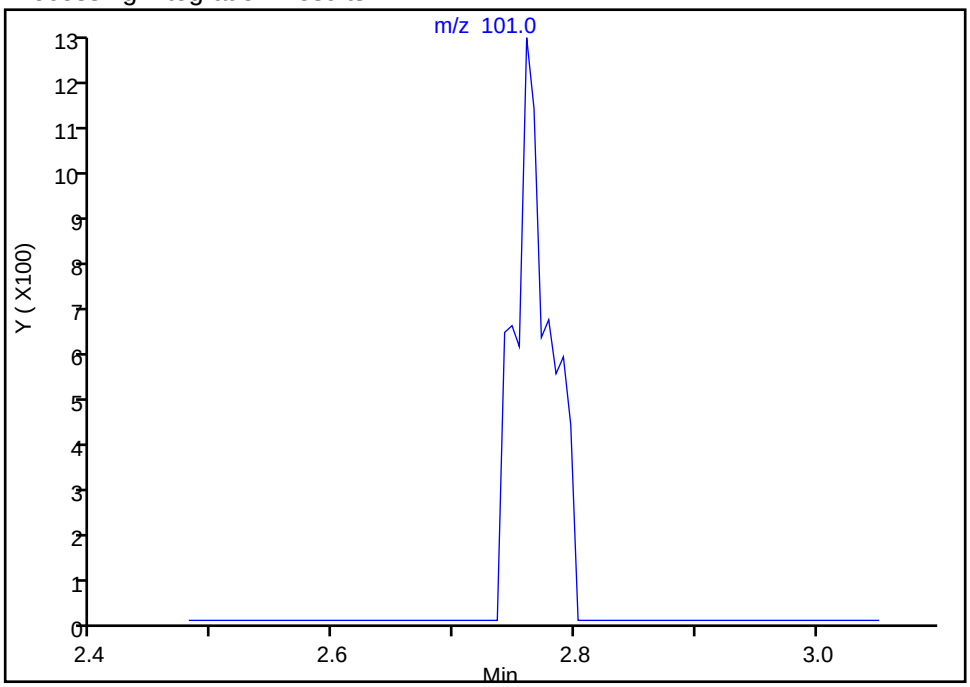
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

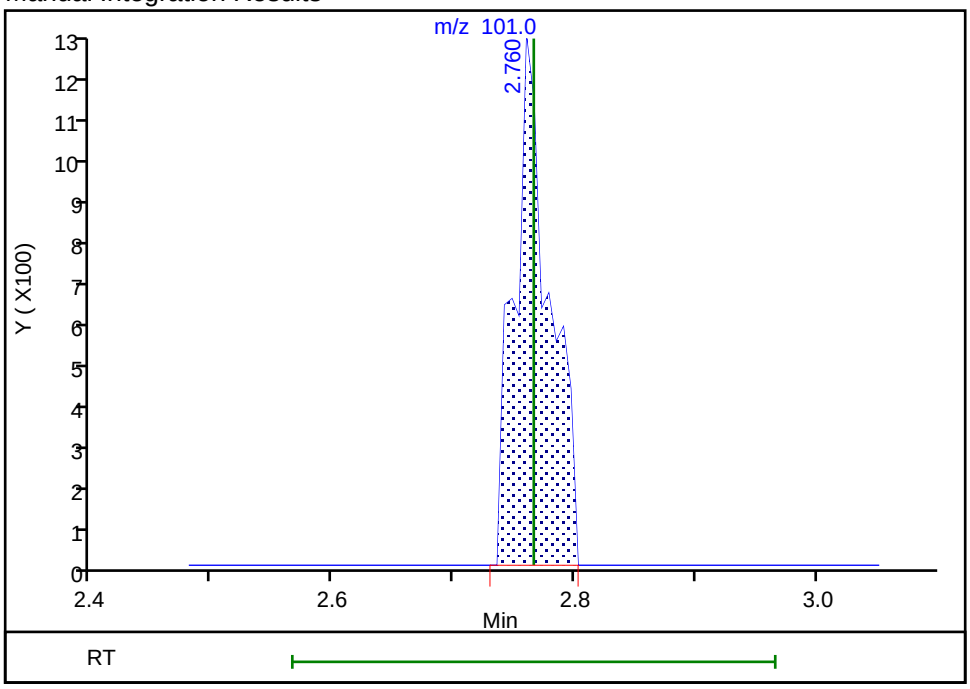
Not Detected
Expected RT: 2.77

Processing Integration Results



Manual Integration Results

RT: 2.76
Area: 2612
Amount: 0.317728
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:32:01
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

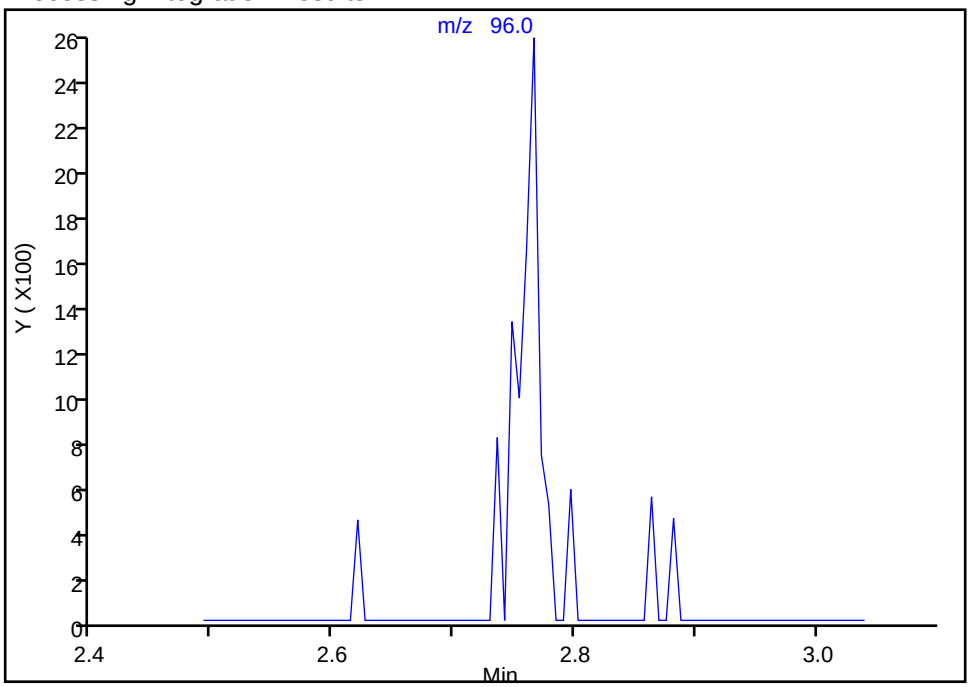
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

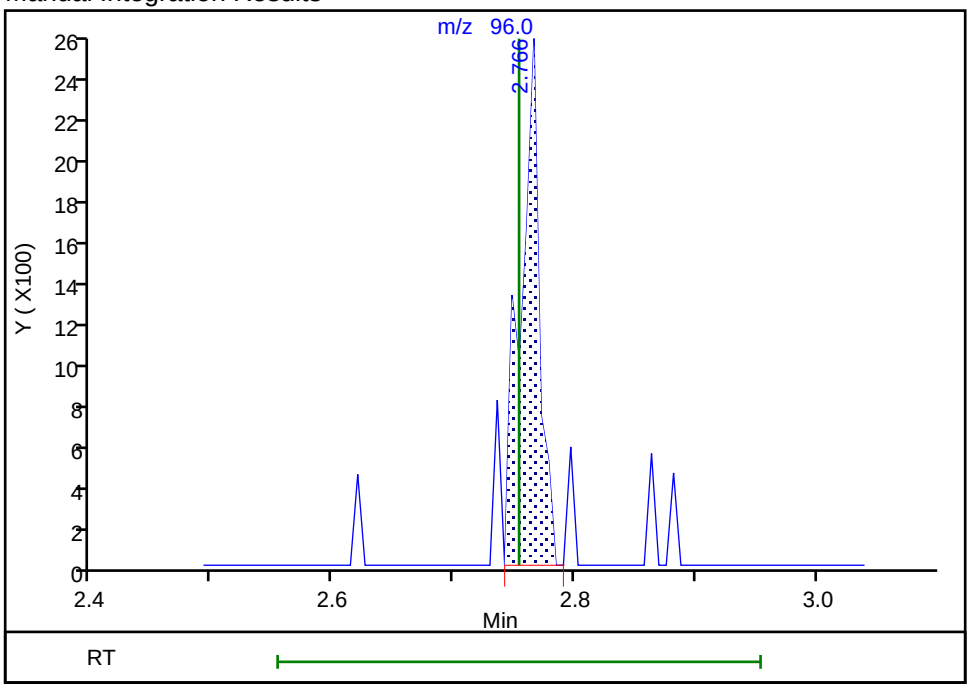
Not Detected
Expected RT: 2.75

Processing Integration Results



Manual Integration Results

RT: 2.77
Area: 2784
Amount: 0.348939
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:31:51
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

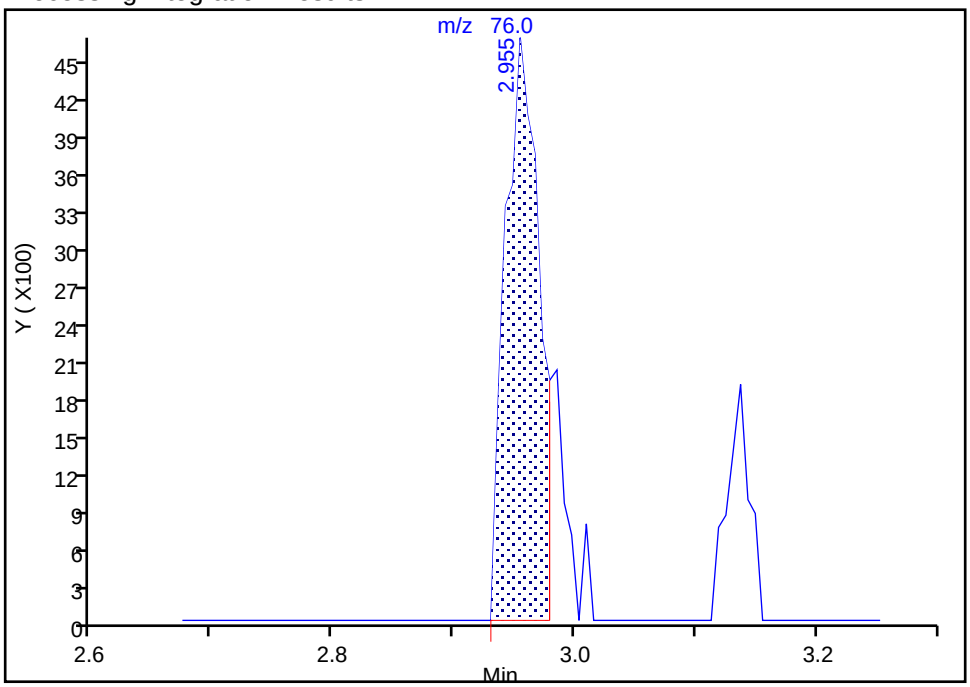
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

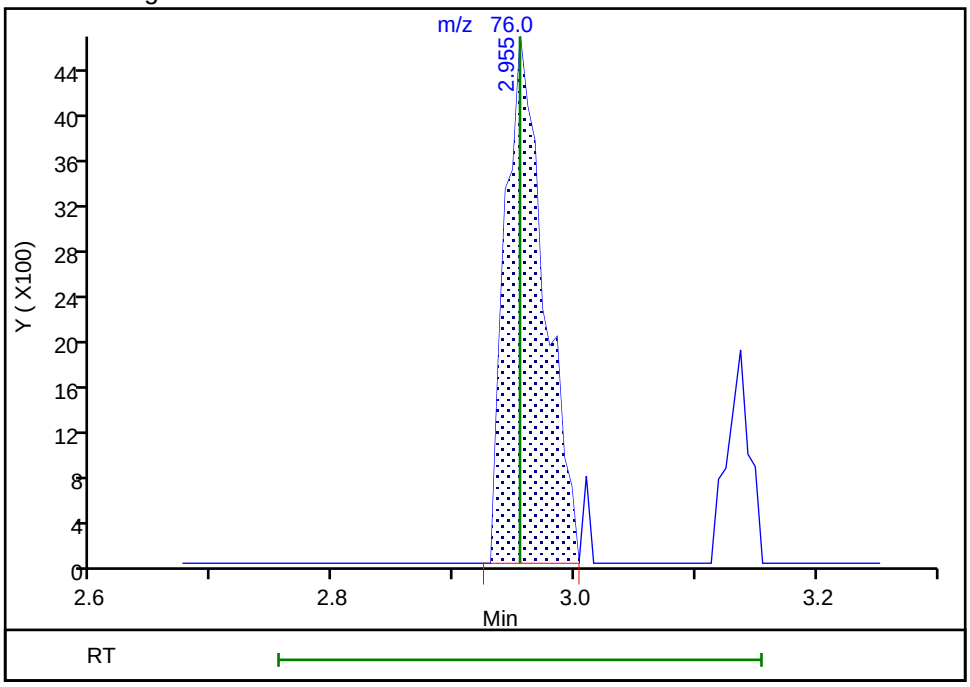
Processing Integration Results

RT: 2.95
Area: 9200
Amount: 0.356374
Amount Units: ug/L



Manual Integration Results

RT: 2.95
Area: 10525
Amount: 0.402534
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:32:12
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

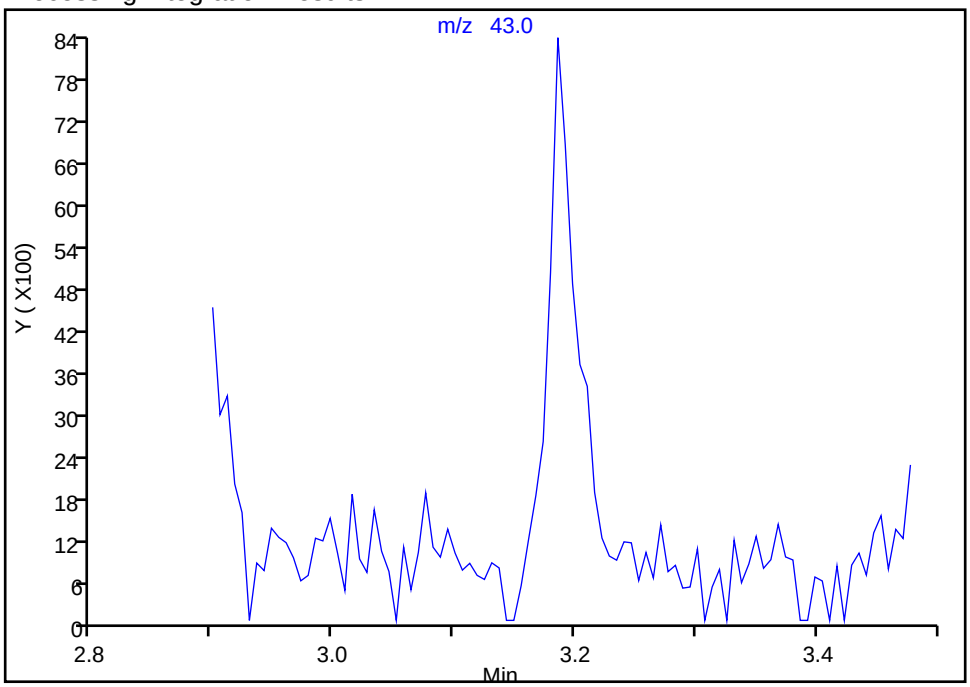
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

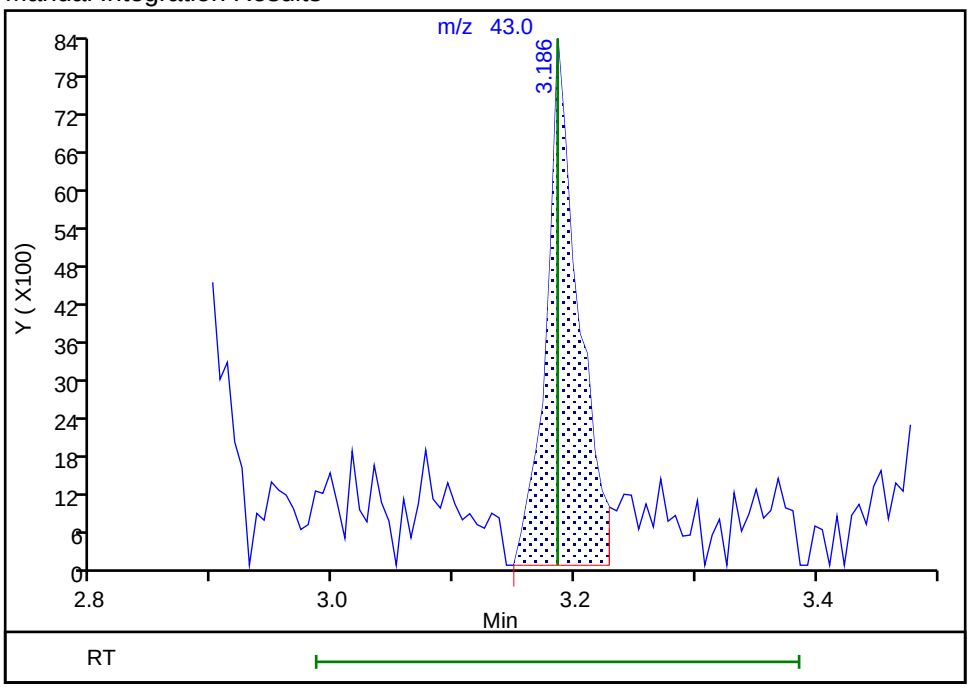
Not Detected
Expected RT: 3.19

Processing Integration Results



Manual Integration Results

RT: 3.19
Area: 15372
Amount: 1.202561
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:32:52
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

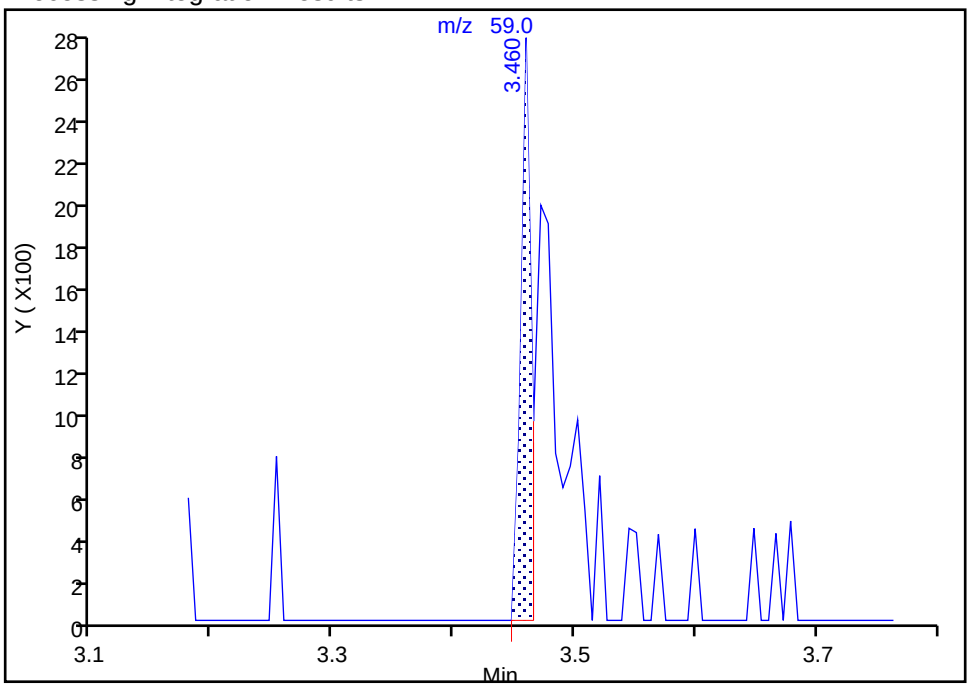
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

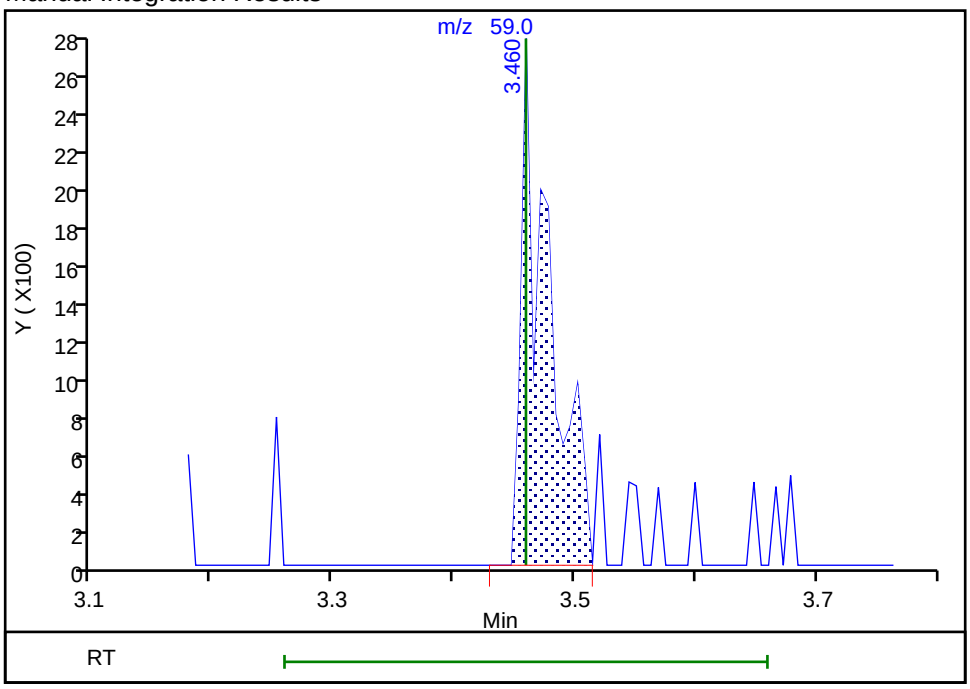
Processing Integration Results

RT: 3.46
Area: 1643
Amount: 2.731138
Amount Units: ug/L



Manual Integration Results

RT: 3.46
Area: 4323
Amount: 6.042141
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:34:05
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

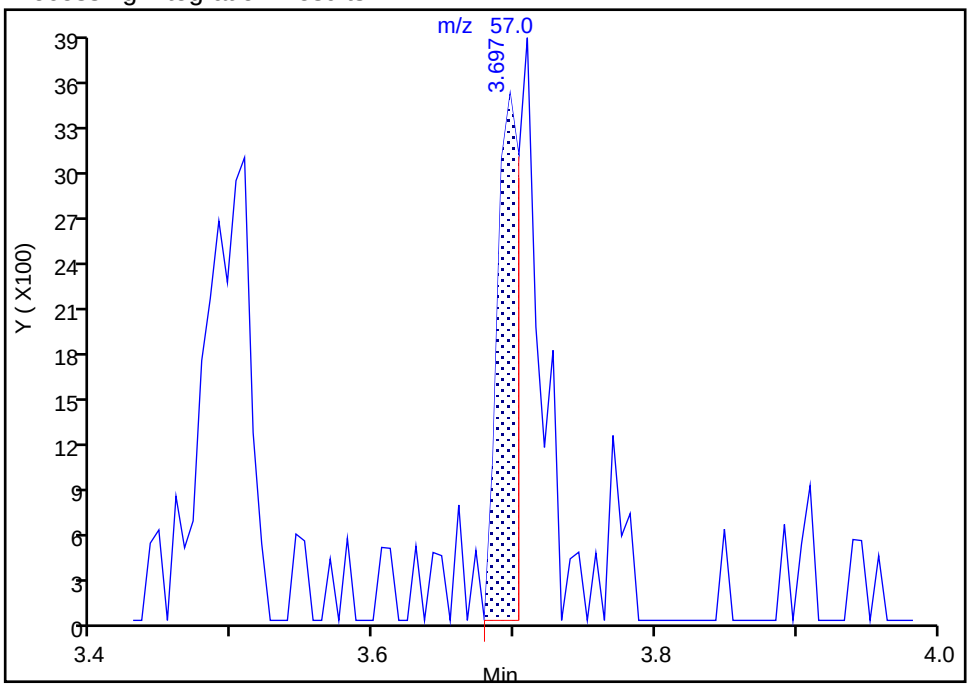
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

35 Hexane, CAS: 110-54-3

Signal: 1

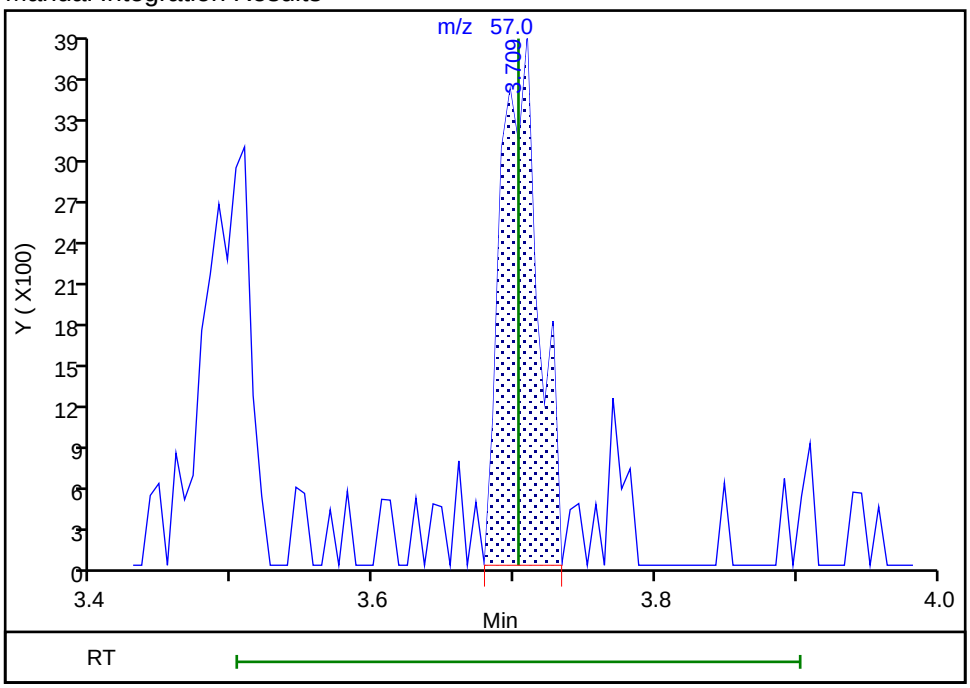
Processing Integration Results

RT: 3.70
Area: 3872
Amount: 0.414328
Amount Units: ug/L



Manual Integration Results

RT: 3.71
Area: 7034
Amount: 0.404762
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:34:29
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

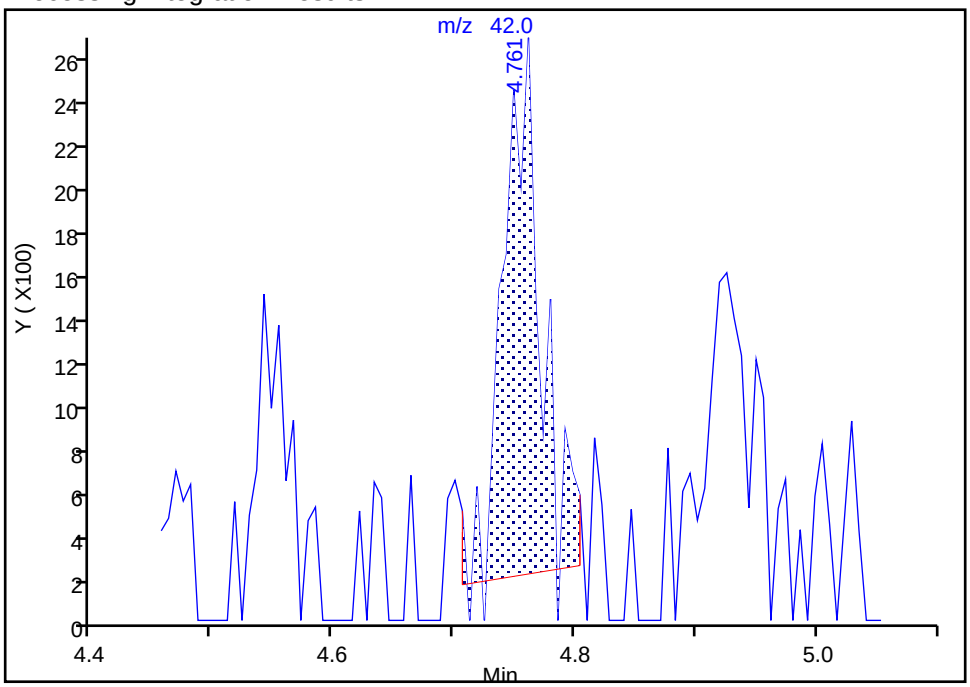
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

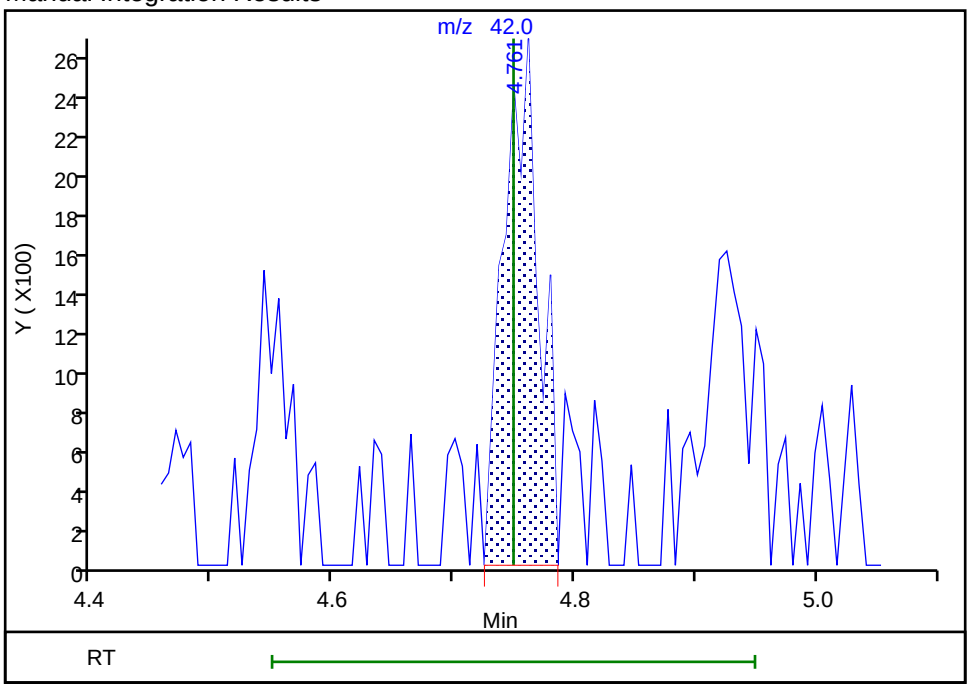
Processing Integration Results

RT: 4.76
Area: 5338
Amount: 1.042852
Amount Units: ug/L



Manual Integration Results

RT: 4.76
Area: 5440
Amount: 1.060138
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:34:52
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

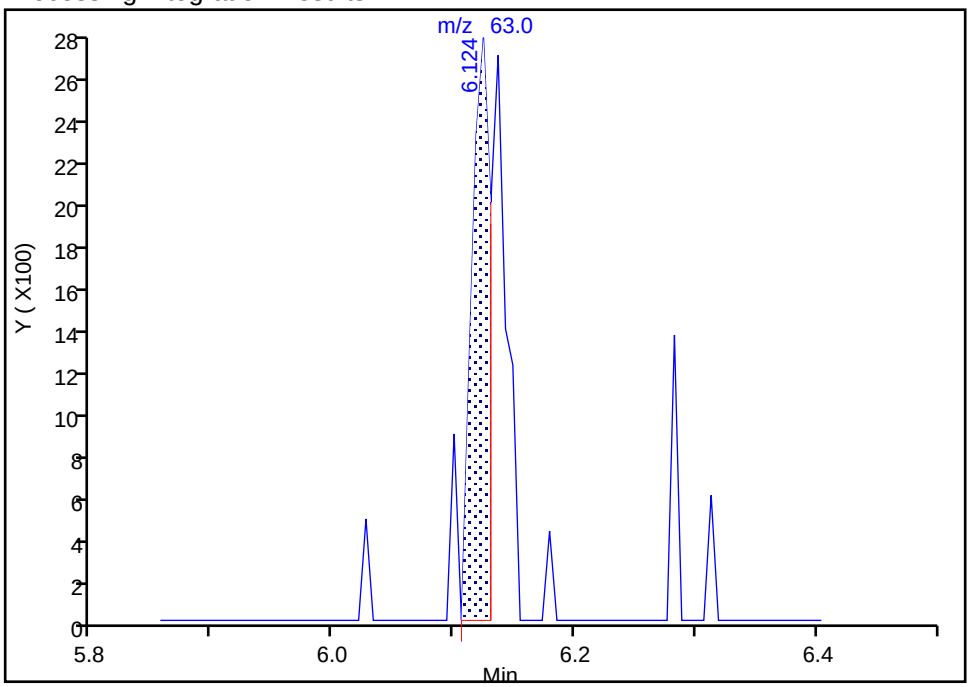
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

63 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

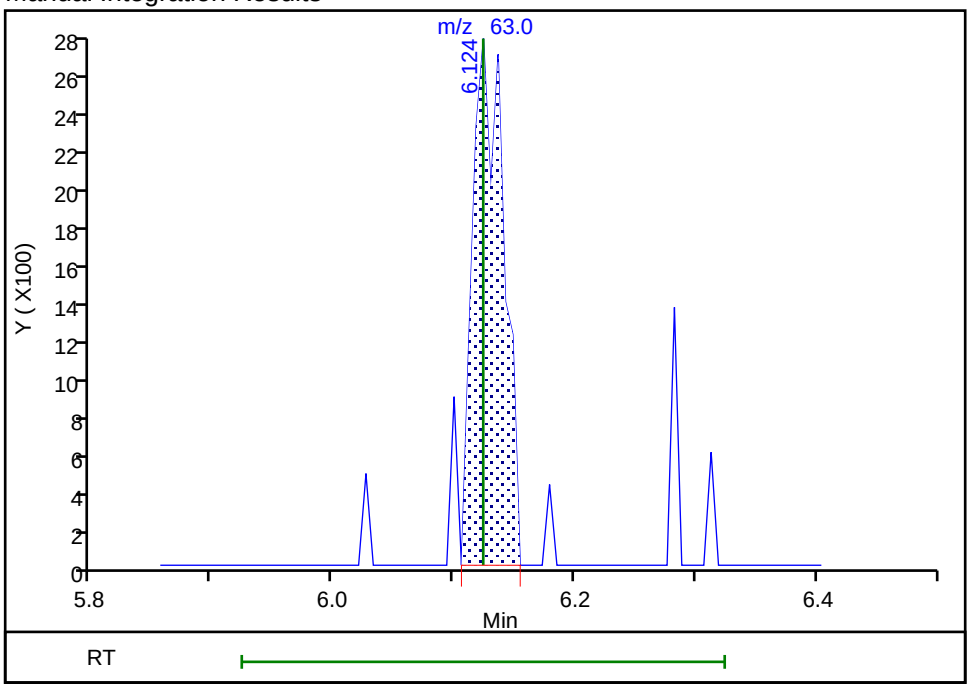
Processing Integration Results

RT: 6.12
Area: 2967
Amount: 0.447493
Amount Units: ug/L



Manual Integration Results

RT: 6.12
Area: 4872
Amount: 0.460701
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:35:17
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

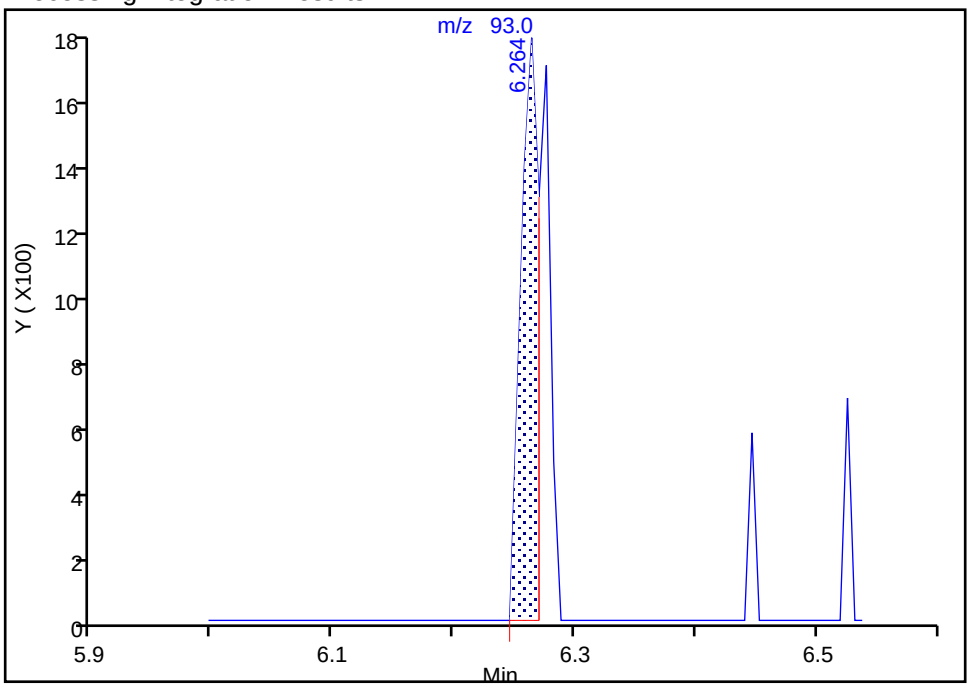
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

64 Dibromomethane, CAS: 74-95-3

Signal: 1

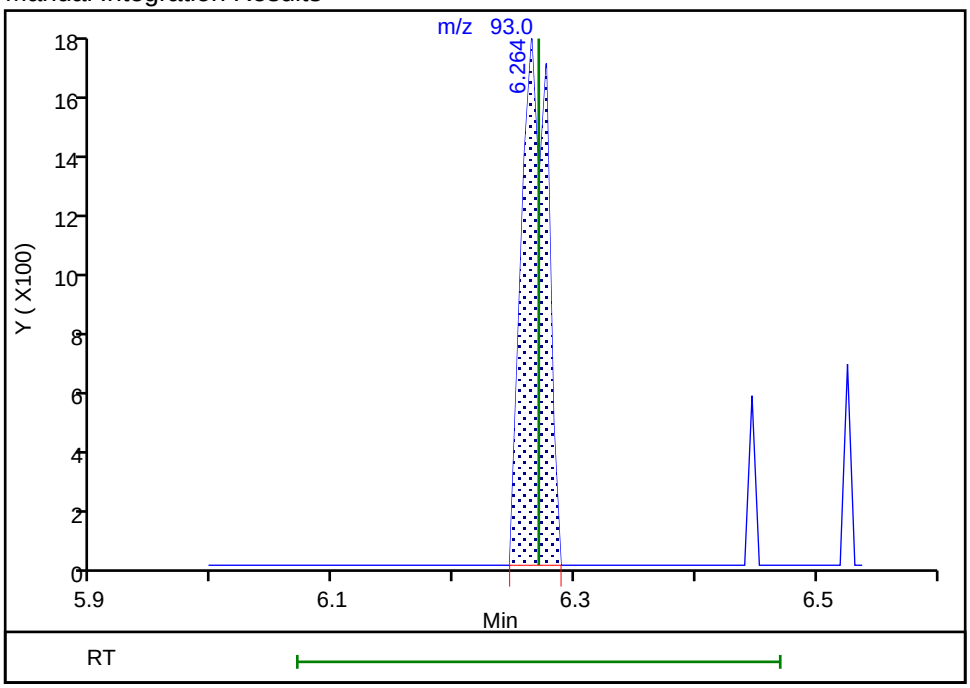
Processing Integration Results

RT: 6.26
Area: 1867
Amount: 0.375940
Amount Units: ug/L



Manual Integration Results

RT: 6.26
Area: 2660
Amount: 0.394441
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:35:23
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo

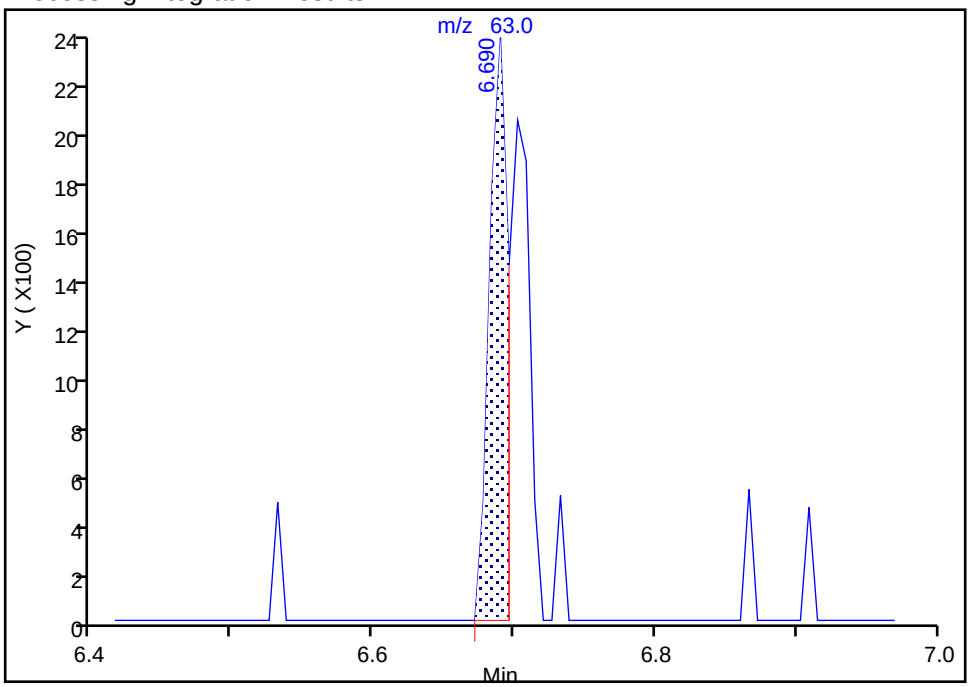
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

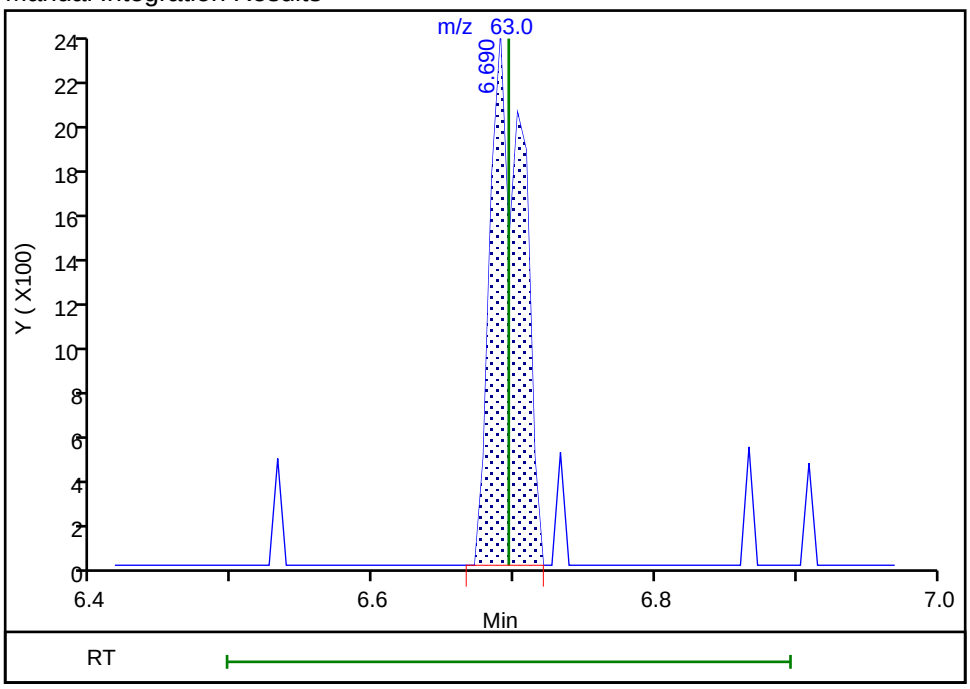
Processing Integration Results

RT: 6.69
Area: 2238
Amount: 0.491515
Amount Units: ug/L



Manual Integration Results

RT: 6.69
Area: 3860
Amount: 0.503806
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:37:11
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

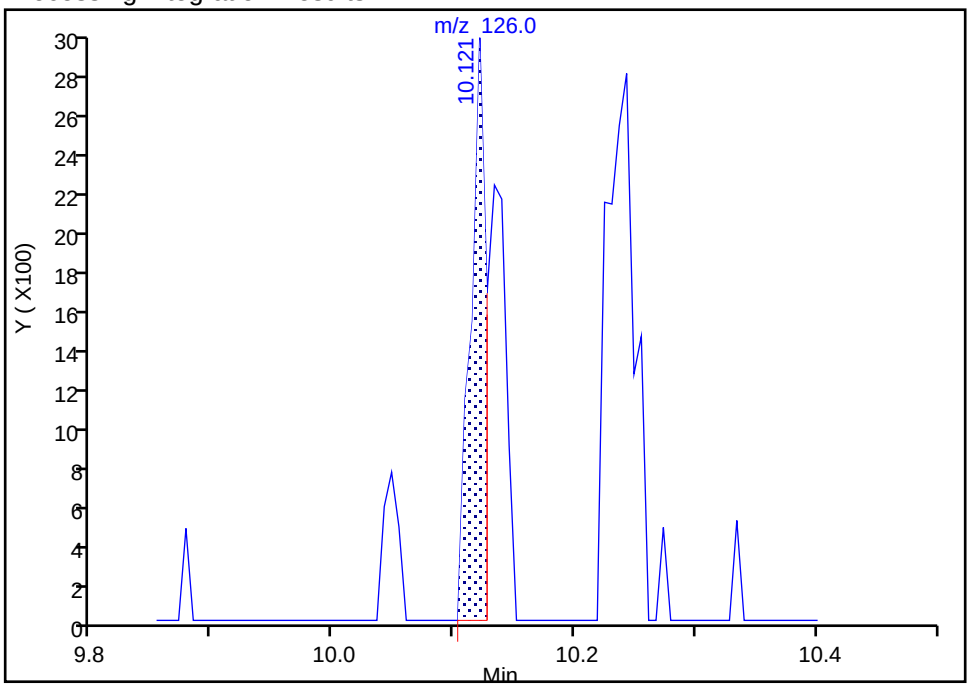
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6197.D
Injection Date: 27-Nov-2018 14:34:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

102 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

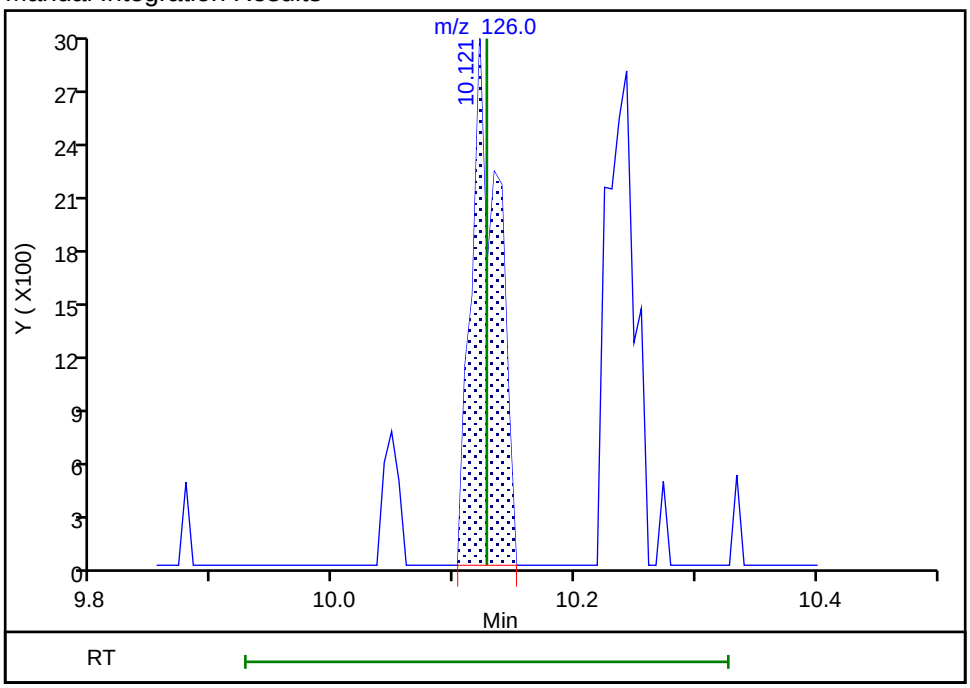
Processing Integration Results

RT: 10.12
Area: 2642
Amount: 0.420519
Amount Units: ug/L



Manual Integration Results

RT: 10.12
Area: 4545
Amount: 0.408286
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:37:39
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6198.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Nov-2018 15:01:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0076774-007
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2018 12:49:26 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0326

First Level Reviewer: baroner Date: 27-Nov-2018 21:33:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.546	5.546	0.000	98	164347	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	89	659283	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.930	10.930	0.000	96	343715	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.962	4.962	0.000	93	222111	25.0	25.8	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	310927	25.0	26.2	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	845894	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr	174	9.798	9.798	0.000	93	272034	25.0	25.2	
11 Dichlorodifluoromethane	85	1.348	1.330	0.018	38	7274	1.00	0.9181	
13 Chloromethane	50	1.519	1.513	0.006	99	16453	1.00	1.12	
14 Vinyl chloride	62	1.604	1.604	0.000	38	10342	1.00	1.01	
144 Butadiene	54	1.640	1.646	-0.006	74	7274	1.00	0.7696	
15 Bromomethane	94	1.939	1.945	-0.006	56	7638	1.00	1.15	
16 Chloroethane	64	2.030	2.030	0.000	47	11439	1.00	1.06	
18 Trichlorofluoromethane	101	2.249	2.231	0.019	49	13364	1.00	1.08	
17 Dichlorofluoromethane	67	2.255	2.261	-0.006	56	15162	1.00	1.06	a
19 Ethyl ether	59	2.541	2.535	0.006	91	10596	1.00	1.03	
20 Acrolein	56	2.723	2.723	0.000	87	12687	5.00	5.35	
22 1,1-Dichloroethene	96	2.754	2.754	0.000	91	7964	1.00	1.05	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	62	6985	1.00	0.8976	
23 Acetone	43	2.888	2.888	0.000	95	18811	5.00	5.13	
24 Iodomethane	142	2.924	2.918	0.006	94	16311	1.00	1.05	
25 Carbon disulfide	76	2.954	2.954	0.000	99	28737	1.00	1.16	
27 3-Chloro-1-propene	41	3.131	3.137	-0.006	83	24071	1.00	1.10	
28 Methyl acetate	43	3.186	3.186	0.000	99	24627	2.00	2.04	
30 Methylene Chloride	84	3.283	3.283	0.000	91	20272	1.00	0.8839	
31 2-Methyl-2-propanol	59	3.478	3.459	0.019	27	6693	10.0	9.88	M
32 Methyl tert-butyl ether	73	3.502	3.490	0.012	96	31713	1.00	1.08	
33 trans-1,2-Dichloroethene	96	3.514	3.508	0.006	95	11311	1.00	1.24	
34 Acrylonitrile	53	3.569	3.575	-0.006	97	58355	10.0	10.8	
35 Hexane	57	3.703	3.703	0.000	95	17970	1.00	1.09	

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	3.940	3.934	0.006	97	20831	1.00	1.16	
39 Vinyl acetate	43	3.995	3.989	0.006	97	52894	2.00	1.87	
42 2,2-Dichloropropane	77	4.451	4.451	0.000	86	17048	1.00	1.33	
43 cis-1,2-Dichloroethene	96	4.500	4.494	0.006	80	11490	1.00	1.08	
44 2-Butanone (MEK)	43	4.530	4.530	0.000	95	31348	5.00	4.69	
47 Chlorobromomethane	128	4.731	4.731	0.000	95	6429	1.00	1.10	
49 Tetrahydrofuran	42	4.767	4.749	0.018	68	11007	2.00	2.27	
50 Chloroform	83	4.804	4.804	0.000	88	15810	1.00	1.00	
51 1,1,1-Trichloroethane	97	4.919	4.913	0.006	90	15424	1.00	1.07	
52 Cyclohexane	56	4.919	4.919	0.000	94	22164	1.00	1.17	
53 Carbon tetrachloride	117	5.047	5.047	0.000	96	13717	1.00	1.05	
54 1,1-Dichloropropene	75	5.072	5.065	0.007	79	12799	1.00	1.10	
55 Benzene	78	5.272	5.272	0.000	45	39868	1.00	1.08	
56 Isobutyl alcohol	43	5.303	5.297	0.006	41	10078	25.0	22.6	
57 1,2-Dichloroethane	62	5.339	5.345	-0.006	94	18036	1.00	1.06	
59 n-Heptane	43	5.437	5.443	-0.006	88	16304	1.00	0.8950	
60 Trichloroethene	95	5.887	5.881	0.006	93	10253	1.00	1.09	
62 Methylcyclohexane	83	5.996	5.996	0.000	93	14181	1.00	1.02	
63 1,2-Dichloropropane	63	6.124	6.124	0.000	79	9593	1.00	0.9583	
64 Dibromomethane	93	6.270	6.270	0.000	87	7843	1.00	1.23	
66 1,4-Dioxane	88		6.276				ND	ND	MUa
67 Dichlorobromomethane	83	6.422	6.422	0.000	92	12611	1.00	1.07	
69 2-Chloroethyl vinyl ether	63	6.690	6.696	-0.006	89	7354	1.00	1.01	
71 cis-1,3-Dichloropropene	75	6.830	6.836	-0.006	80	13770	1.00	1.01	
72 4-Methyl-2-pentanone (MIBK	58	6.982	6.982	0.000	99	22415	5.00	4.43	
73 Toluene	92	7.122	7.122	0.000	97	25603	1.00	1.07	
75 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	94	11967	1.00	0.9316	
77 Ethyl methacrylate	69	7.444	7.444	0.000	86	8921	1.00	0.7762	
78 1,1,2-Trichloroethane	83	7.596	7.596	0.000	89	6567	1.00	1.00	
79 Tetrachloroethene	166	7.657	7.651	0.006	86	11061	1.00	1.04	
80 1,3-Dichloropropane	76	7.761	7.760	0.000	89	11905	1.00	0.8789	
82 2-Hexanone	43	7.821	7.821	0.000	95	52656	5.00	4.82	
83 Chlorodibromomethane	129	7.992	7.998	-0.006	84	8214	1.00	0.9094	
84 Ethylene Dibromide	107	8.107	8.101	0.006	96	8257	1.00	0.9329	
85 Chlorobenzene	112	8.576	8.576	0.000	95	29443	1.00	1.09	
88 Ethylbenzene	91	8.667	8.667	0.000	97	45935	1.00	1.06	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	45	9101	1.00	0.9102	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	97	17115	1.00	0.99	
91 o-Xylene	106	9.214	9.214	0.000	93	18372	1.00	1.03	
92 Styrene	104	9.251	9.245	0.006	96	29709	1.00	1.04	
93 Bromoform	173	9.500	9.506	-0.006	91	4974	1.00	0.9036	
95 Isopropylbenzene	105	9.598	9.598	0.000	97	43288	1.00	0.9707	
97 Bromobenzene	156	9.945	9.944	0.000	74	14315	1.00	1.12	
98 1,1,2,2-Tetrachloroethane	83	9.999	10.005	-0.006	93	10459	1.00	0.9808	
100 N-Propylbenzene	91	10.024	10.024	0.000	99	49210	1.00	1.00	
99 1,2,3-Trichloropropane	110	10.030	10.036	-0.006	49	4091	1.00	1.05	
101 trans-1,4-Dichloro-2-buten	53	10.054	10.048	0.006	37	5012	1.00	1.03	
102 2-Chlorotoluene	126	10.127	10.127	0.000	96	10897	1.00	1.00	
104 1,3,5-Trimethylbenzene	105	10.200	10.194	0.006	94	36630	1.00	0.9836	
105 4-Chlorotoluene	91	10.243	10.237	0.007	97	31492	1.00	1.01	
106 tert-Butylbenzene	134	10.510	10.510	0.000	94	8135	1.00	0.9538	
108 1,2,4-Trimethylbenzene	105	10.565	10.571	-0.006	97	37534	1.00	0.9717	

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	10.723	10.723	0.000	94	44784	1.00	0.9580	
110 1,3-Dichlorobenzene	146	10.863	10.863	0.000	76	22873	1.00	1.01	
111 4-Isopropyltoluene	119	10.863	10.863	0.000	96	39194	1.00	0.9654	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	92	24606	1.00	1.08	
115 n-Butylbenzene	91	11.246	11.246	0.000	91	29095	1.00	0.8819	
116 1,2-Dichlorobenzene	146	11.301	11.301	0.000	92	20078	1.00	0.9298	
117 1,2-Dibromo-3-Chloropropan	75	12.037	12.031	0.006	1	1903	1.00	1.07	
119 1,2,4-Trichlorobenzene	180	12.706	12.706	0.000	91	16756	1.00	1.05	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	91	5541	1.00	0.8509	
121 Naphthalene	128	12.919	12.919	0.000	95	37463	1.00	0.9382	
122 1,2,3-Trichlorobenzene	180	13.126	13.120	0.006	91	15162	1.00	0.99	
S 124 1,2-Dichloroethene, Total	1				0			2.32	
S 125 Total BTEX	1				0			5.23	
S 126 Xylenes, Total	1				0			2.03	
S 123 1,3-Dichloropropene, Total	1				0			1.95	

QC Flag Legend

Processing Flags
ND - Not Detected or Marked ND
Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

8260 CORP mix_00141	Amount Added:	1.00	Units: uL	
GAS CORP mix_00314	Amount Added:	1.00	Units: uL	
N_8260_Surr_00354	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00134	Amount Added:	1.00	Units: uL	Run Reagent

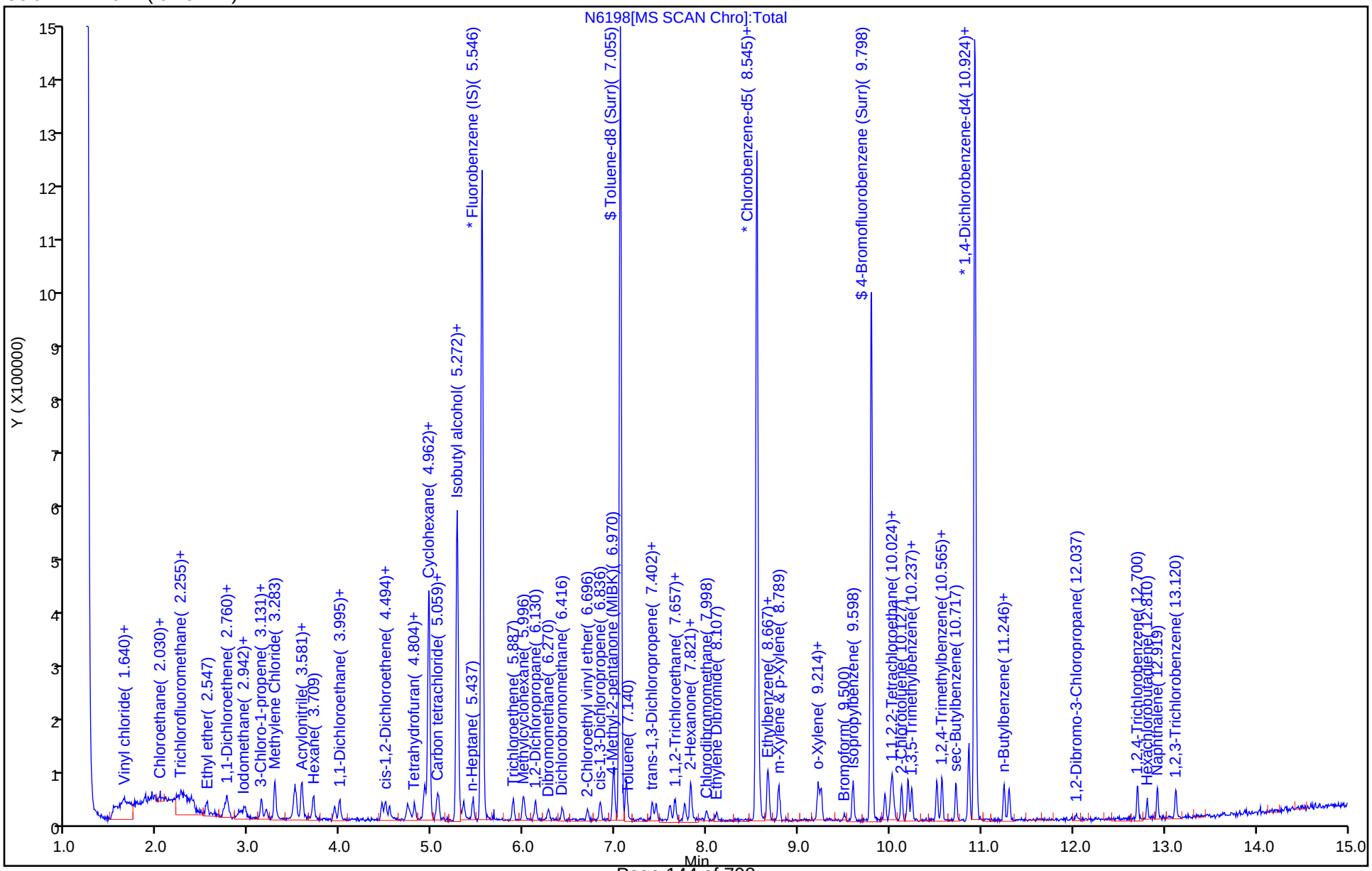
Report Date: 28-Nov-2018 12:49:28 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6198.D

Injection Date:	27-Nov-2018 15:01:30	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#:	4
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

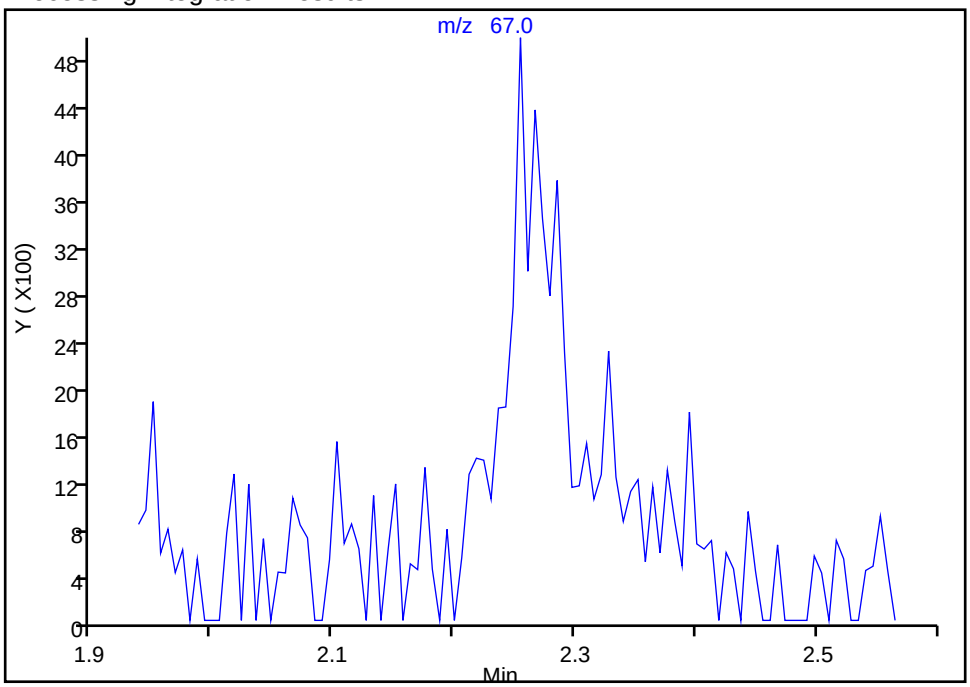
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6198.D
Injection Date: 27-Nov-2018 15:01:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

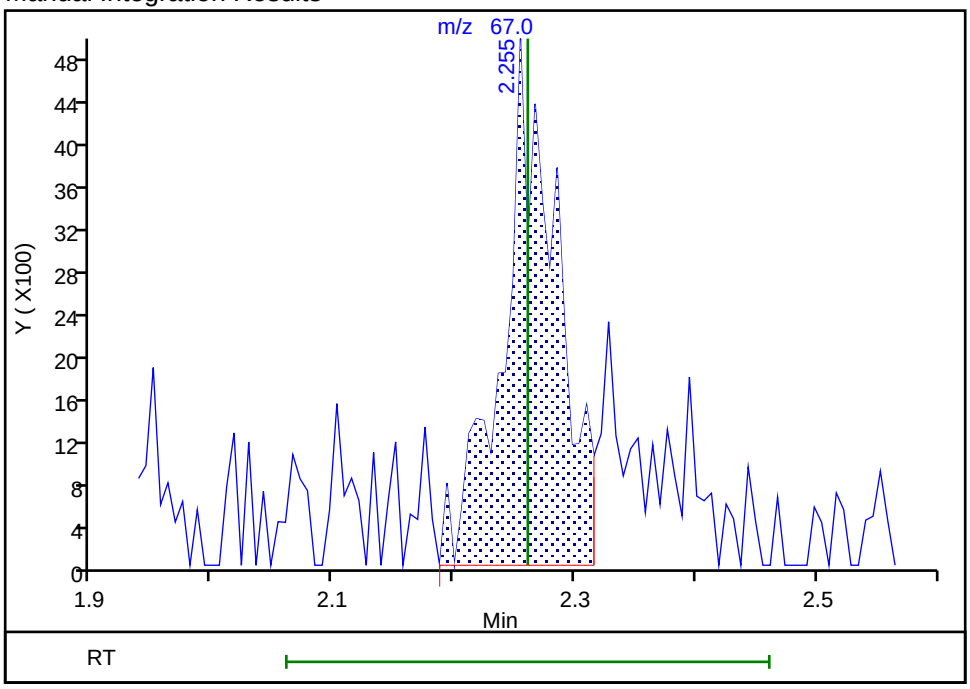
Not Detected
Expected RT: 2.26

Processing Integration Results



Manual Integration Results

RT: 2.25
Area: 15162
Amount: 1.063239
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:33:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

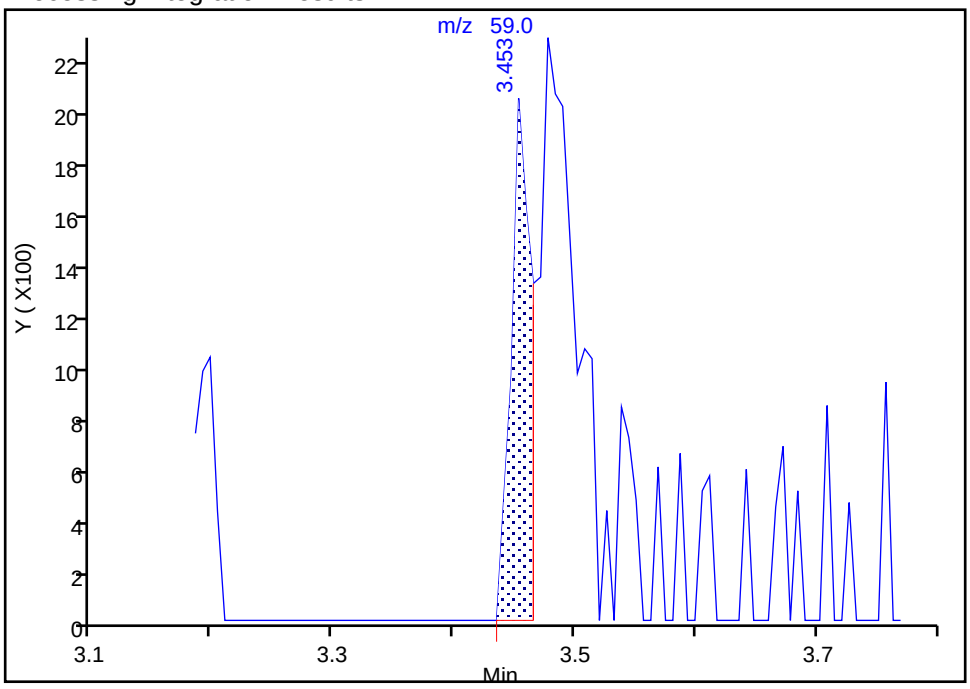
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6198.D
Injection Date: 27-Nov-2018 15:01:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

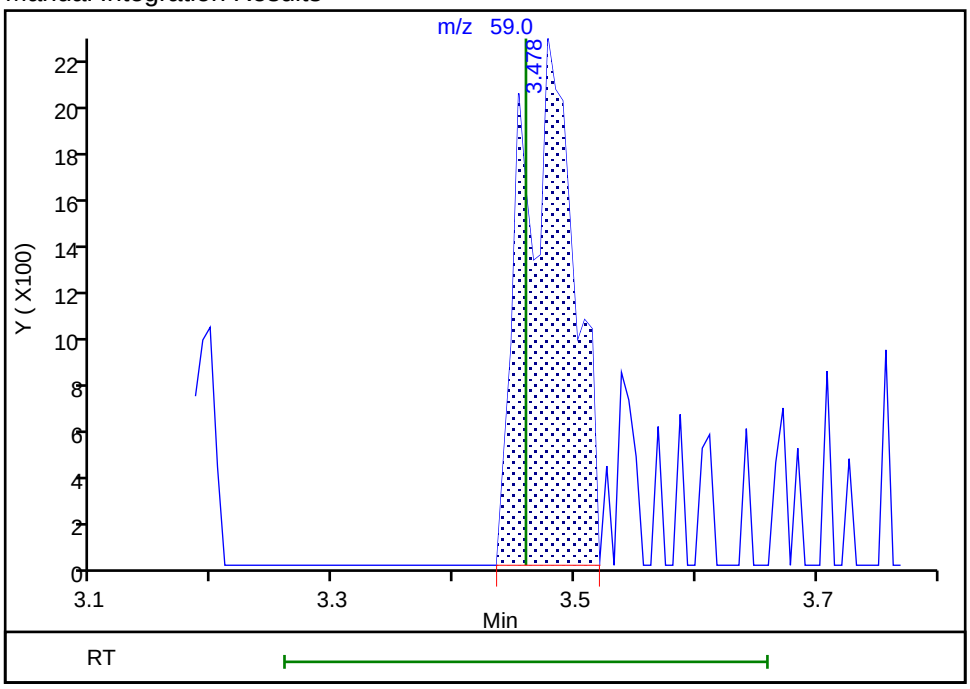
Processing Integration Results

RT: 3.45
Area: 2305
Amount: 3.642169
Amount Units: ug/L



Manual Integration Results

RT: 3.48
Area: 6693
Amount: 9.882559
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:53:03
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6199.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Nov-2018 15:28:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0076774-008
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2018 12:49:31 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0326

First Level Reviewer: baroner Date: 27-Nov-2018 21:55:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.546	5.546	0.000	98	173110	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	88	665456	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.930	10.930	0.000	96	344349	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.962	4.962	0.000	93	221244	25.0	24.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	310053	25.0	24.8	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	863316	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr	174	9.799	9.798	0.001	94	273251	25.0	25.1	
11 Dichlorodifluoromethane	85	1.330	1.330	0.000	98	16101	2.00	1.93	
13 Chloromethane	50	1.513	1.513	0.000	98	31950	2.00	2.07	
14 Vinyl chloride	62	1.604	1.604	0.000	98	22475	2.00	2.08	
144 Butadiene	54	1.634	1.646	-0.012	96	20863	2.00	2.10	
15 Bromomethane	94	1.939	1.945	-0.006	85	15829	2.00	2.26	M
16 Chloroethane	64	2.030	2.030	0.000	93	18522	2.00	2.09	
18 Trichlorofluoromethane	101	2.237	2.231	0.007	96	24189	2.00	1.86	
17 Dichlorofluoromethane	67	2.255	2.261	-0.006	94	32313	2.00	2.15	
19 Ethyl ether	59	2.541	2.535	0.006	93	20324	2.00	1.88	
20 Acrolein	56	2.723	2.723	0.000	98	24968	10.0	9.99	
22 1,1-Dichloroethene	96	2.754	2.754	0.000	94	16522	2.00	2.08	
21 1,1,2-Trichloro-1,2,2-trif	101	2.772	2.766	0.006	61	14397	2.00	1.76	
23 Acetone	43	2.894	2.888	0.006	97	35836	10.0	9.28	
24 Iodomethane	142	2.924	2.918	0.006	96	32245	2.00	1.96	
25 Carbon disulfide	76	2.948	2.954	-0.006	97	49577	2.00	1.90	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	85	46058	2.00	2.01	
28 Methyl acetate	43	3.186	3.186	0.000	99	48897	4.00	3.84	
30 Methylene Chloride	84	3.283	3.283	0.000	92	29715	2.00	1.75	
31 2-Methyl-2-propanol	59	3.472	3.459	0.013	94	10916	20.0	15.3	
32 Methyl tert-butyl ether	73	3.502	3.490	0.012	98	62904	2.00	2.03	
33 trans-1,2-Dichloroethene	96	3.514	3.508	0.006	95	17815	2.00	1.85	
34 Acrylonitrile	53	3.575	3.575	0.000	98	104549	20.0	18.5	
35 Hexane	57	3.703	3.703	0.000	93	34144	2.00	1.97	

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	3.934	3.934	0.000	96	34505	2.00	1.83	
39 Vinyl acetate	43	3.989	3.989	0.000	97	103404	4.00	3.47	
42 2,2-Dichloropropane	77	4.457	4.451	0.006	84	26311	2.00	1.94	
43 cis-1,2-Dichloroethene	96	4.500	4.494	0.006	82	22021	2.00	1.96	
44 2-Butanone (MEK)	43	4.536	4.530	0.006	96	65199	10.0	9.27	
47 Chlorobromomethane	128	4.737	4.731	0.006	88	11430	2.00	1.86	
49 Tetrahydrofuran	42	4.755	4.749	0.006	93	20267	4.00	3.96	
50 Chloroform	83	4.804	4.804	0.000	95	31736	2.00	1.90	
51 1,1,1-Trichloroethane	97	4.920	4.913	0.007	94	26632	2.00	1.75	
52 Cyclohexane	56	4.920	4.919	0.001	97	35227	2.00	1.76	
53 Carbon tetrachloride	117	5.047	5.047	0.000	92	23701	2.00	1.72	
54 1,1-Dichloropropene	75	5.066	5.065	0.001	78	22451	2.00	1.84	
55 Benzene	78	5.272	5.272	0.000	52	77667	2.00	1.99	
56 Isobutyl alcohol	43	5.303	5.297	0.006	91	21001	50.0	44.7	
57 1,2-Dichloroethane	62	5.345	5.345	0.000	95	34166	2.00	1.91	
59 n-Heptane	43	5.443	5.443	0.000	96	37271	2.00	1.94	
60 Trichloroethene	95	5.887	5.881	0.006	91	20188	2.00	2.03	
62 Methylcyclohexane	83	5.996	5.996	0.000	94	25525	2.00	1.75	
63 1,2-Dichloropropane	63	6.130	6.124	0.006	83	20215	2.00	1.92	
64 Dibromomethane	93	6.264	6.270	-0.006	96	12770	2.00	1.90	
66 1,4-Dioxane	88	6.288	6.276	0.012	28	1707	40.0	33.1	
67 Dichlorobromomethane	83	6.422	6.422	0.000	94	23016	2.00	1.85	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	92	13992	2.00	1.83	
71 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	84	25954	2.00	1.81	
72 4-Methyl-2-pentanone (MIBK	58	6.982	6.982	0.000	97	47727	10.0	9.35	
73 Toluene	92	7.122	7.122	0.000	97	47236	2.00	1.95	
75 trans-1,3-Dichloropropene	75	7.408	7.402	0.006	96	24791	2.00	1.91	
77 Ethyl methacrylate	69	7.444	7.444	0.000	89	22660	2.00	1.95	
78 1,1,2-Trichloroethane	83	7.596	7.596	0.000	92	12467	2.00	1.88	
79 Tetrachloroethene	166	7.657	7.651	0.006	91	21438	2.00	1.99	
80 1,3-Dichloropropane	76	7.754	7.760	-0.006	91	25690	2.00	1.88	
82 2-Hexanone	43	7.821	7.821	0.000	99	99898	10.0	9.06	
83 Chlorodibromomethane	129	8.004	7.998	0.006	91	16097	2.00	1.77	
84 Ethylene Dibromide	107	8.107	8.101	0.006	96	17098	2.00	1.91	
85 Chlorobenzene	112	8.582	8.576	0.006	96	54332	2.00	1.99	
88 Ethylbenzene	91	8.667	8.667	0.000	97	82577	2.00	1.88	
89 1,1,1,2-Tetrachloroethane	131	8.667	8.673	-0.006	85	18957	2.00	1.88	
90 m-Xylene & p-Xylene	106	8.783	8.789	-0.006	98	36158	2.00	2.08	
91 o-Xylene	106	9.215	9.214	0.000	97	33643	2.00	1.87	
92 Styrene	104	9.245	9.245	0.000	95	52237	2.00	1.82	
93 Bromoform	173	9.500	9.506	-0.006	85	9485	2.00	1.71	
95 Isopropylbenzene	105	9.598	9.598	0.000	97	84917	2.00	1.90	
97 Bromobenzene	156	9.945	9.944	0.001	86	24115	2.00	1.89	
98 1,1,2,2-Tetrachloroethane	83	9.999	10.005	-0.006	93	20091	2.00	1.88	
100 N-Propylbenzene	91	10.018	10.024	-0.006	99	96388	2.00	1.95	
99 1,2,3-Trichloropropane	110	10.030	10.036	-0.006	50	7291	2.00	1.87	
101 trans-1,4-Dichloro-2-buten	53	10.054	10.048	0.006	60	8105	2.00	1.67	
102 2-Chlorotoluene	126	10.121	10.127	-0.006	96	21712	2.00	1.99	
104 1,3,5-Trimethylbenzene	105	10.194	10.194	0.000	94	72584	2.00	1.95	
105 4-Chlorotoluene	91	10.237	10.237	0.001	97	58740	2.00	1.89	
106 tert-Butylbenzene	134	10.510	10.510	0.000	93	15911	2.00	1.86	
108 1,2,4-Trimethylbenzene	105	10.565	10.571	-0.006	97	74005	2.00	1.91	

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	10.723	10.723	0.000	94	89502	2.00	1.91	
110 1,3-Dichlorobenzene	146	10.863	10.863	0.000	75	42002	2.00	1.84	
111 4-Isopropyltoluene	119	10.863	10.863	0.000	97	77746	2.00	1.91	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	94	43476	2.00	1.90	
115 n-Butylbenzene	91	11.246	11.246	0.000	97	64014	2.00	1.94	
116 1,2-Dichlorobenzene	146	11.301	11.301	0.000	95	41407	2.00	1.91	
117 1,2-Dibromo-3-Chloropropan	75	12.031	12.031	0.000	73	3375	2.00	1.89	
119 1,2,4-Trichlorobenzene	180	12.706	12.706	0.000	93	32696	2.00	2.04	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	93	12607	2.00	1.93	
121 Naphthalene	128	12.919	12.919	0.000	97	73822	2.00	1.85	
122 1,2,3-Trichlorobenzene	180	13.120	13.120	0.000	93	29722	2.00	1.95	
S 124 1,2-Dichloroethene, Total	1				0			3.81	
S 125 Total BTEX	1				0			9.78	
S 126 Xylenes, Total	1				0			3.95	
S 123 1,3-Dichloropropene, Total	1				0			3.73	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00141	Amount Added:	2.00	Units: uL	
GAS CORP mix_00314	Amount Added:	2.00	Units: uL	
N_8260_Surr_00354	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00134	Amount Added:	1.00	Units: uL	Run Reagent

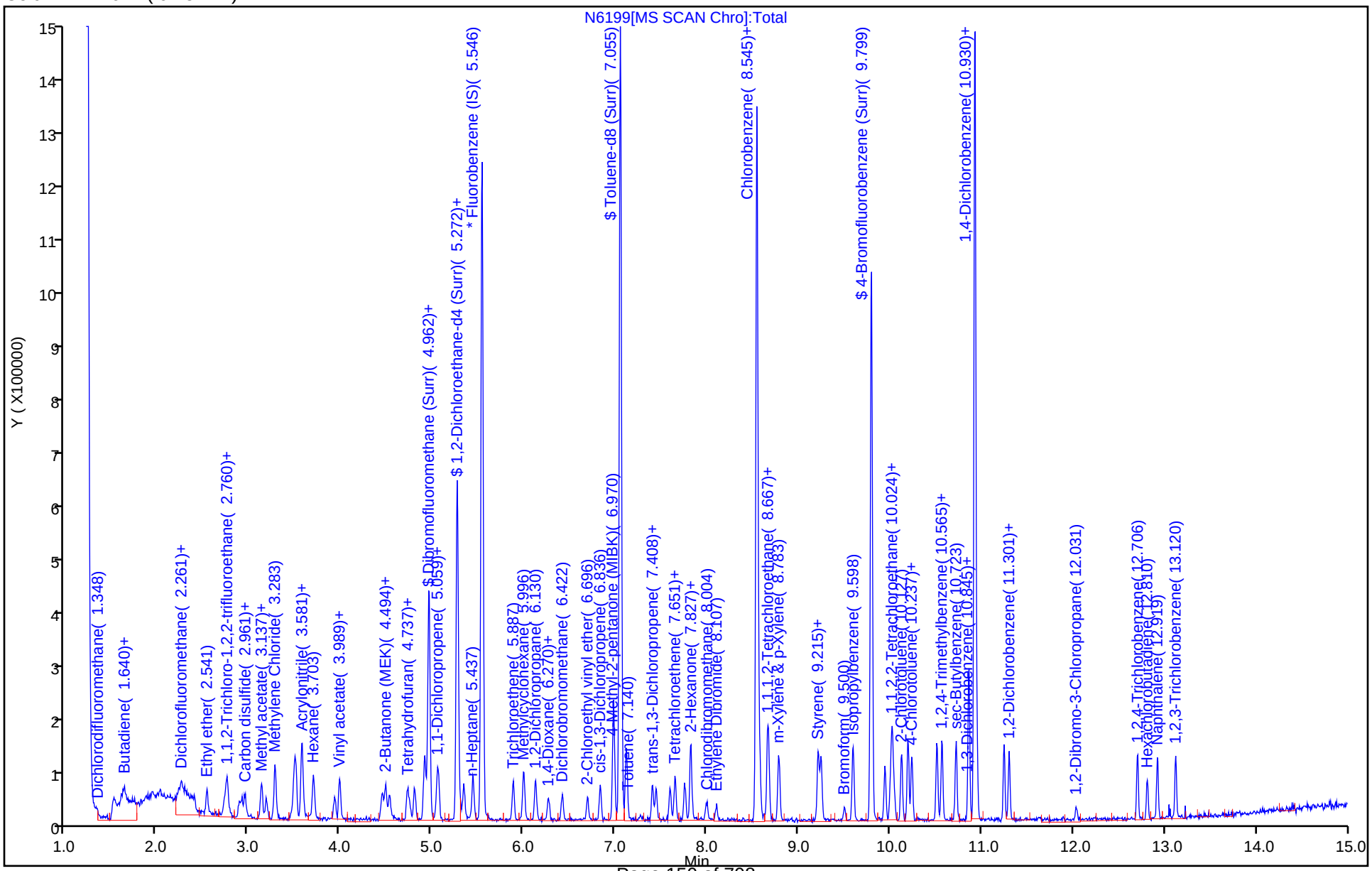
Report Date: 28-Nov-2018 12:49:33 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6199.D

Injection Date:	27-Nov-2018 15:28:30	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#:	5
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

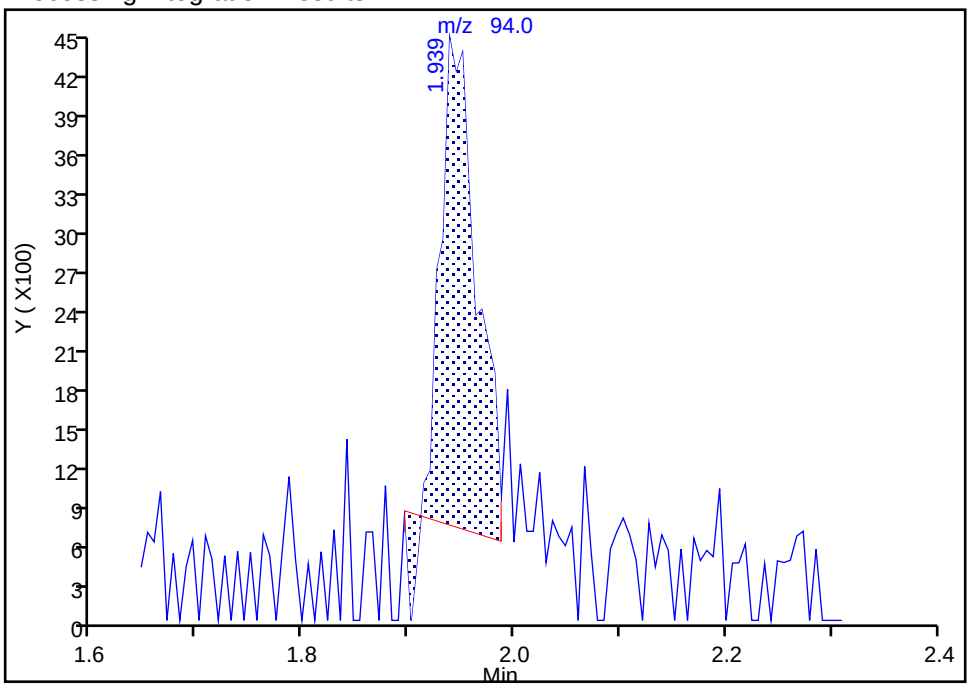
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6199.D
Injection Date: 27-Nov-2018 15:28:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

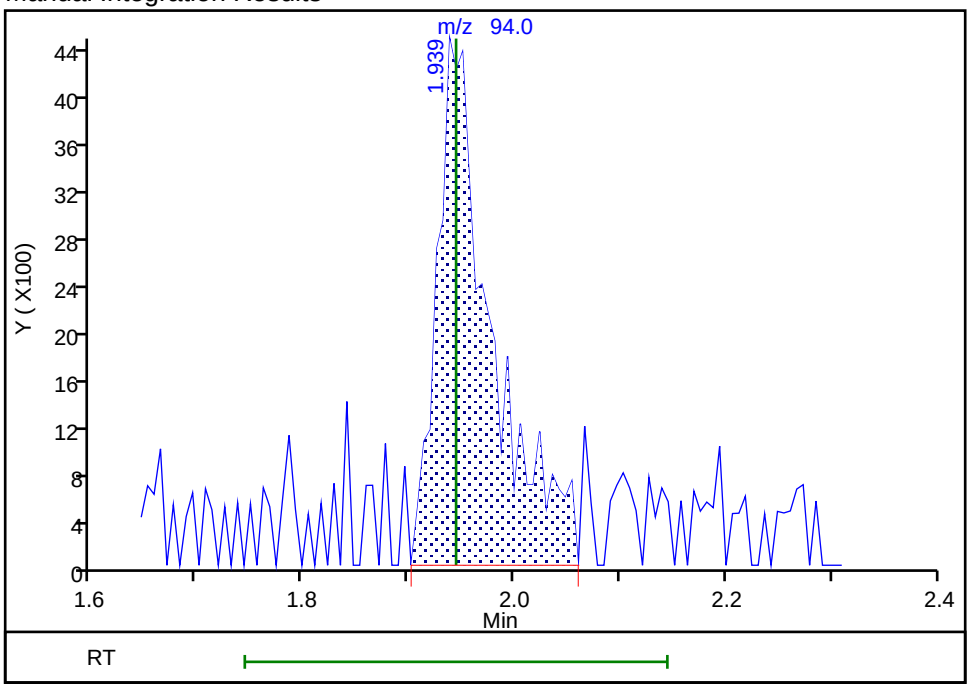
Processing Integration Results

RT: 1.94
Area: 8576
Amount: 1.307390
Amount Units: ug/L



Manual Integration Results

RT: 1.94
Area: 15829
Amount: 2.257112
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:54:50
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6200.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Nov-2018 15:55:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0076774-009
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2018 12:49:35 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0326

First Level Reviewer: baroner Date: 27-Nov-2018 21:56:11

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	5.546	5.546	0.000	98	169868	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	90	654659	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	95	345915	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.962	4.962	0.000	92	223637	25.0	25.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	311751	25.0	25.5	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	848885	25.0	25.2	
$ 7 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	93	263995	25.0	24.6	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	98	41394	5.00	5.05	
13 Chloromethane	50	1.513	1.513	0.000	98	75390	5.00	4.97	
14 Vinyl chloride	62	1.610	1.610	0.000	98	53112	5.00	5.02	
144 Butadiene	54	1.634	1.634	0.000	91	48181	5.00	4.93	
15 Bromomethane	94	1.939	1.939	0.000	93	32635	5.00	4.74	
16 Chloroethane	64	2.036	2.036	0.000	96	36569	5.00	5.08	
18 Trichlorofluoromethane	101	2.237	2.237	0.000	97	59742	5.00	4.67	
17 Dichlorofluoromethane	67	2.267	2.267	0.000	95	71159	5.00	4.83	
19 Ethyl ether	59	2.541	2.541	0.000	98	55009	5.00	5.19	
20 Acrolein	56	2.736	2.736	0.000	98	54035	25.0	22.0	
22 1,1-Dichloroethene	96	2.760	2.760	0.000	92	42697	5.00	5.47	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	62	47661	5.00	5.93	
23 Acetone	43	2.888	2.888	0.000	96	88537	25.0	23.4	
24 Iodomethane	142	2.924	2.924	0.000	100	88485	5.00	5.49	
25 Carbon disulfide	76	2.955	2.955	0.000	98	139603	5.00	5.46	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	84	116720	5.00	5.18	
28 Methyl acetate	43	3.186	3.186	0.000	100	124329	10.0	9.94	
30 Methylene Chloride	84	3.283	3.283	0.000	93	64183	5.00	5.46	
31 2-Methyl-2-propanol	59	3.466	3.466	0.000	91	30617	50.0	43.7	
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	95	155418	5.00	5.10	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	91	50107	5.00	5.31	
34 Acrylonitrile	53	3.575	3.575	0.000	97	265242	50.0	47.7	
35 Hexane	57	3.703	3.703	0.000	96	92847	5.00	5.46	

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	3.934	3.934	0.000	96	99161	5.00	5.35	
39 Vinyl acetate	43	3.989	3.989	0.000	97	282553	10.0	9.67	
42 2,2-Dichloropropane	77	4.451	4.451	0.000	80	67678	5.00	5.10	
43 cis-1,2-Dichloroethene	96	4.494	4.494	0.000	83	55737	5.00	5.05	
44 2-Butanone (MEK)	43	4.530	4.530	0.000	96	174565	25.0	25.3	
47 Chlorobromomethane	128	4.725	4.725	0.000	90	28354	5.00	4.69	
49 Tetrahydrofuran	42	4.749	4.749	0.000	88	44577	10.0	8.88	
50 Chloroform	83	4.804	4.804	0.000	96	86602	5.00	5.28	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	95	83002	5.00	5.57	
52 Cyclohexane	56	4.920	4.920	0.000	97	102321	5.00	5.22	
53 Carbon tetrachloride	117	5.053	5.053	0.000	82	70285	5.00	5.21	
54 1,1-Dichloropropene	75	5.066	5.066	0.000	84	64024	5.00	5.34	
55 Benzene	78	5.272	5.272	0.000	73	198557	5.00	5.19	
56 Isobutyl alcohol	43	5.303	5.303	0.000	89	50801	125.0	110.1	
57 1,2-Dichloroethane	62	5.345	5.345	0.000	96	92106	5.00	5.25	
59 n-Heptane	43	5.443	5.443	0.000	94	98524	5.00	5.23	
60 Trichloroethene	95	5.887	5.887	0.000	89	51358	5.00	5.27	
62 Methylcyclohexane	83	6.002	6.002	0.000	96	75841	5.00	5.29	
63 1,2-Dichloropropane	63	6.124	6.124	0.000	85	55818	5.00	5.39	
64 Dibromomethane	93	6.264	6.264	0.000	92	33496	5.00	5.08	
66 1,4-Dioxane	88	6.282	6.282	0.000	32	6973	100.0	108.3	
67 Dichlorobromomethane	83	6.422	6.422	0.000	95	59256	5.00	4.86	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	88	36039	5.00	4.81	
71 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	83	68771	5.00	4.90	
72 4-Methyl-2-pentanone (MIBK	58	6.982	6.982	0.000	99	131636	25.0	26.2	
73 Toluene	92	7.122	7.122	0.000	97	124883	5.00	5.25	
75 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	93	66303	5.00	5.20	
77 Ethyl methacrylate	69	7.444	7.444	0.000	89	58043	5.00	5.09	
78 1,1,2-Trichloroethane	83	7.596	7.596	0.000	94	34483	5.00	5.28	
79 Tetrachloroethene	166	7.657	7.657	0.000	95	56967	5.00	5.37	
80 1,3-Dichloropropane	76	7.761	7.761	0.000	90	70321	5.00	5.23	
82 2-Hexanone	43	7.821	7.821	0.000	97	273320	25.0	25.2	
83 Chlorodibromomethane	129	7.992	7.992	0.000	89	41415	5.00	4.62	
84 Ethylene Dibromide	107	8.107	8.107	0.000	99	44260	5.00	5.04	
85 Chlorobenzene	112	8.576	8.576	0.000	96	132076	5.00	4.92	
88 Ethylbenzene	91	8.667	8.667	0.000	98	230030	5.00	5.32	
89 1,1,1,2-Tetrachloroethane	131	8.679	8.679	0.000	87	51091	5.00	5.15	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	98	89867	5.00	5.26	
91 o-Xylene	106	9.215	9.215	0.000	96	88688	5.00	5.01	
92 Styrene	104	9.251	9.251	0.000	95	152800	5.00	5.41	
93 Bromoform	173	9.501	9.501	0.000	94	26943	5.00	4.93	
95 Isopropylbenzene	105	9.598	9.598	0.000	95	242361	5.00	5.40	
97 Bromobenzene	156	9.945	9.945	0.000	84	64153	5.00	5.01	
98 1,1,2,2-Tetrachloroethane	83	9.999	9.999	0.000	93	51638	5.00	4.81	
100 N-Propylbenzene	91	10.018	10.018	0.000	99	268625	5.00	5.40	
99 1,2,3-Trichloropropane	110	10.036	10.036	0.000	91	19329	5.00	4.92	
101 trans-1,4-Dichloro-2-buten	53	10.048	10.048	0.000	76	24901	5.00	5.11	
102 2-Chlorotoluene	126	10.127	10.127	0.000	96	59563	5.00	5.44	
104 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	94	192067	5.00	5.12	
105 4-Chlorotoluene	91	10.237	10.237	0.000	97	154327	5.00	4.94	
106 tert-Butylbenzene	134	10.510	10.510	0.000	94	48230	5.00	5.62	
108 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	98	208397	5.00	5.36	

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	10.723	10.723	0.000	95	243596	5.00	5.18	
110 1,3-Dichlorobenzene	146	10.863	10.863	0.000	75	117133	5.00	5.12	
111 4-Isopropyltoluene	119	10.863	10.863	0.000	97	208182	5.00	5.10	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	96	114493	5.00	4.97	
115 n-Butylbenzene	91	11.247	11.247	0.000	98	176610	5.00	5.32	
116 1,2-Dichlorobenzene	146	11.301	11.301	0.000	97	115159	5.00	5.30	
117 1,2-Dibromo-3-Chloropropan	75	12.031	12.031	0.000	76	9083	5.00	5.07	
119 1,2,4-Trichlorobenzene	180	12.707	12.707	0.000	92	83023	5.00	5.16	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	94	33228	5.00	5.07	
121 Naphthalene	128	12.919	12.919	0.000	97	202295	5.00	5.03	
122 1,2,3-Trichlorobenzene	180	13.120	13.120	0.000	95	79298	5.00	5.17	
S 124 1,2-Dichloroethene, Total	1				0			10.4	
S 125 Total BTEX	1				0			26.0	
S 126 Xylenes, Total	1				0			10.3	
S 123 1,3-Dichloropropene, Total	1				0			10.1	

Reagents:

8260 CORP mix_00141	Amount Added:	5.00	Units: uL	
GAS CORP mix_00314	Amount Added:	5.00	Units: uL	
N_8260_Surr_00354	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00134	Amount Added:	1.00	Units: uL	Run Reagent

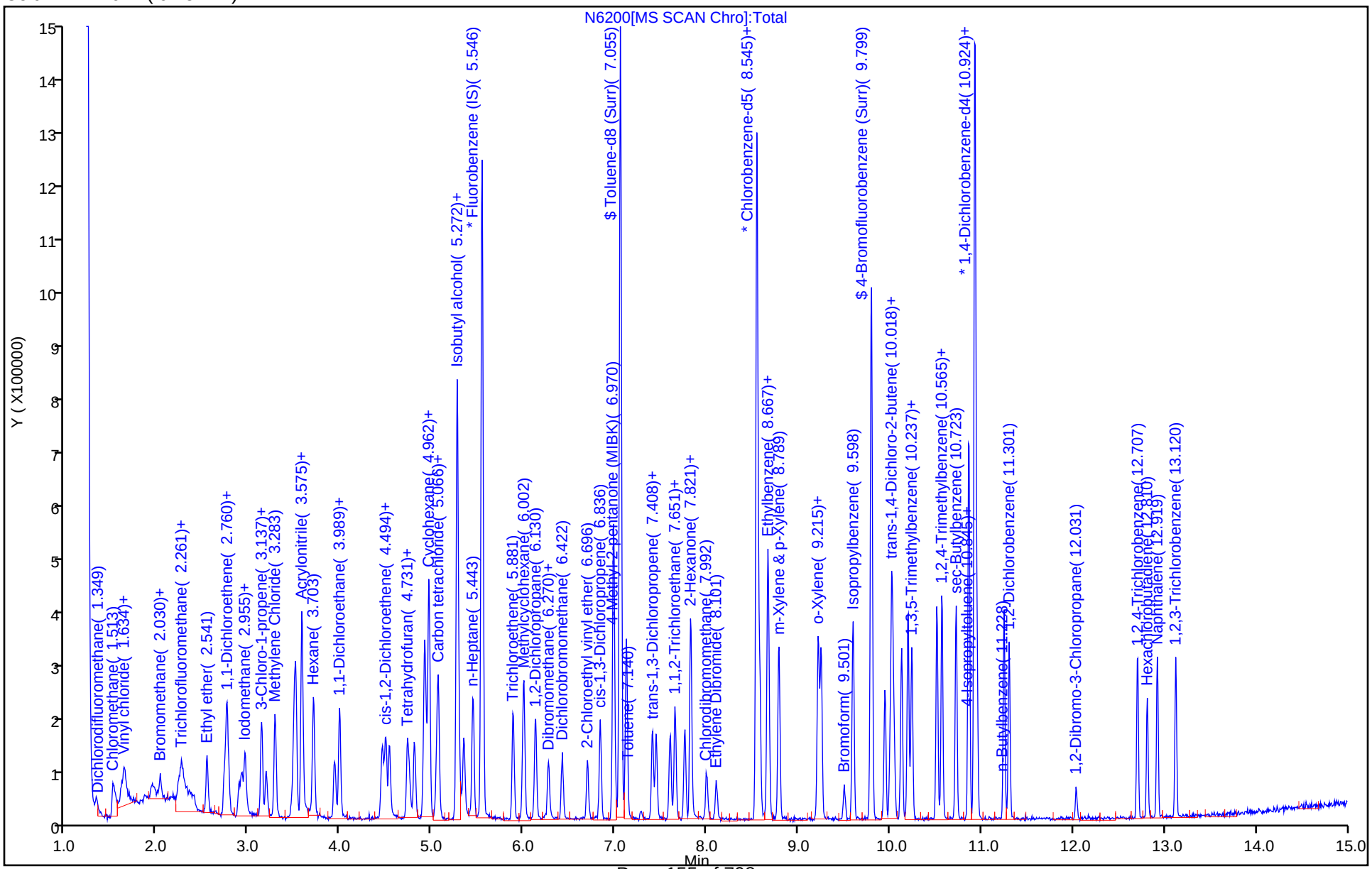
Report Date: 28-Nov-2018 12:49:37 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6200.D

Injection Date:	27-Nov-2018 15:55:30	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#:	6
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6201.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Nov-2018 16:21:30 ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0076774-010
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2018 12:49:40 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0326

First Level Reviewer: baroner Date: 27-Nov-2018 21:38:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.546	5.546	0.000	98	172699	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	90	671827	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.930	10.924	0.006	96	352826	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.968	4.962	0.006	92	220735	25.0	24.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	303829	25.0	24.4	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	875059	25.0	25.3	
$ 7 4-Bromofluorobenzene (Surr	174	9.798	9.799	-0.001	92	276400	25.0	25.1	
11 Dichlorodifluoromethane	85	1.336	1.336	0.000	97	78933	10.0	9.48	
13 Chloromethane	50	1.513	1.513	0.000	98	148123	10.0	9.61	
14 Vinyl chloride	62	1.616	1.610	0.006	81	102389	10.0	9.51	
144 Butadiene	54	1.640	1.634	0.006	98	102601	10.0	10.3	
15 Bromomethane	94	1.945	1.939	0.006	90	62980	10.0	9.00	
16 Chloroethane	64	2.036	2.036	0.000	95	62839	10.0	9.17	
18 Trichlorofluoromethane	101	2.237	2.237	0.000	84	128545	10.0	9.89	
17 Dichlorofluoromethane	67	2.261	2.267	-0.006	95	143844	10.0	9.60	
19 Ethyl ether	59	2.541	2.541	0.000	95	106320	10.0	9.87	
20 Acrolein	56	2.729	2.736	-0.007	97	114633	50.0	46.0	
22 1,1-Dichloroethene	96	2.754	2.760	-0.006	92	72761	10.0	9.17	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	61	72082	10.0	8.82	
23 Acetone	43	2.887	2.888	-0.001	97	190674	50.0	49.5	
24 Iodomethane	142	2.924	2.924	0.000	100	155766	10.0	9.51	
25 Carbon disulfide	76	2.954	2.955	-0.001	98	231872	10.0	8.92	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	81	198241	10.0	8.65	
28 Methyl acetate	43	3.186	3.186	0.000	100	233945	20.0	18.4	
30 Methylene Chloride	84	3.283	3.283	0.000	91	106953	10.0	9.80	
31 2-Methyl-2-propanol	59	3.465	3.466	-0.001	91	69239	100.0	97.3	M
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	96	314482	10.0	10.1	
33 trans-1,2-Dichloroethene	96	3.514	3.514	0.000	93	91893	10.0	9.58	
34 Acrylonitrile	53	3.575	3.575	0.000	99	549975	100.0	97.3	
35 Hexane	57	3.703	3.703	0.000	96	146037	10.0	8.45	

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	3.934	3.934	0.000	97	175595	10.0	9.31	
39 Vinyl acetate	43	3.989	3.989	0.000	97	591720	20.0	19.9	
42 2,2-Dichloropropane	77	4.457	4.451	0.006	83	122866	10.0	9.10	
43 cis-1,2-Dichloroethene	96	4.494	4.494	0.000	85	108902	10.0	9.71	
44 2-Butanone (MEK)	43	4.530	4.530	0.000	97	353866	50.0	50.4	
47 Chlorobromomethane	128	4.731	4.725	0.006	92	58600	10.0	9.54	
49 Tetrahydrofuran	42	4.749	4.749	0.000	91	103058	20.0	20.2	
50 Chloroform	83	4.810	4.804	0.006	96	162246	10.0	9.73	
51 1,1,1-Trichloroethane	97	4.919	4.913	0.006	97	138563	10.0	9.14	
52 Cyclohexane	56	4.919	4.920	-0.001	98	172787	10.0	8.67	
53 Carbon tetrachloride	117	5.053	5.053	0.000	94	121141	10.0	8.83	
54 1,1-Dichloropropene	75	5.065	5.066	-0.001	82	111806	10.0	9.17	
55 Benzene	78	5.272	5.272	0.000	88	373071	10.0	9.59	
56 Isobutyl alcohol	43	5.297	5.303	-0.006	92	127928	250.0	272.7	
57 1,2-Dichloroethane	62	5.345	5.345	0.000	95	174217	10.0	9.77	
59 n-Heptane	43	5.443	5.443	0.000	96	157838	10.0	8.25	
60 Trichloroethene	95	5.881	5.887	-0.006	93	93886	10.0	9.48	
62 Methylcyclohexane	83	5.996	6.002	-0.006	95	131608	10.0	9.03	
63 1,2-Dichloropropane	63	6.130	6.124	0.006	78	103892	10.0	9.88	
64 Dibromomethane	93	6.264	6.264	0.000	94	65185	10.0	9.72	
66 1,4-Dioxane	88	6.282	6.282	0.000	30	14809	200.0	214.3	M
67 Dichlorobromomethane	83	6.422	6.422	0.000	95	123050	10.0	9.92	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	87	73481	10.0	9.64	
71 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	83	139617	10.0	9.78	
72 4-Methyl-2-pentanone (MIBK	58	6.982	6.982	0.000	99	260778	50.0	50.6	
73 Toluene	92	7.122	7.122	0.000	98	232049	10.0	9.50	
75 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	90	131594	10.0	10.1	
77 Ethyl methacrylate	69	7.444	7.444	0.000	92	121537	10.0	10.4	
78 1,1,2-Trichloroethane	83	7.596	7.596	0.000	93	68600	10.0	10.2	
79 Tetrachloroethene	166	7.651	7.657	-0.006	95	102488	10.0	9.41	
80 1,3-Dichloropropane	76	7.760	7.761	-0.001	89	140991	10.0	10.2	
82 2-Hexanone	43	7.821	7.821	0.000	97	551923	50.0	49.6	
83 Chlorodibromomethane	129	7.998	7.992	0.006	90	94356	10.0	10.3	
84 Ethylene Dibromide	107	8.107	8.107	0.000	95	95216	10.0	10.6	
85 Chlorobenzene	112	8.576	8.576	0.000	93	271772	10.0	9.86	
88 Ethylbenzene	91	8.667	8.667	0.000	98	427185	10.0	9.63	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.679	-0.006	91	98797	10.0	9.70	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	97	174762	10.0	9.96	
91 o-Xylene	106	9.214	9.215	-0.001	96	175319	10.0	9.65	
92 Styrene	104	9.245	9.251	-0.006	94	285394	10.0	9.85	
93 Bromoform	173	9.506	9.501	0.005	95	53717	10.0	9.58	
95 Isopropylbenzene	105	9.598	9.598	0.000	96	432034	10.0	9.44	
97 Bromobenzene	156	9.944	9.945	-0.001	86	123412	10.0	9.44	
98 1,1,2,2-Tetrachloroethane	83	9.999	9.999	0.000	95	107670	10.0	9.84	
100 N-Propylbenzene	91	10.017	10.018	-0.001	99	471300	10.0	9.29	
99 1,2,3-Trichloropropane	110	10.042	10.036	0.006	94	39854	10.0	9.95	
101 trans-1,4-Dichloro-2-buten	53	10.048	10.048	0.000	77	49977	10.0	10.1	
102 2-Chlorotoluene	126	10.127	10.127	0.000	97	105247	10.0	9.42	
104 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	95	374375	10.0	9.79	
105 4-Chlorotoluene	91	10.236	10.237	-0.001	97	300419	10.0	9.43	
106 tert-Butylbenzene	134	10.516	10.510	0.006	94	86262	10.0	9.85	
108 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	98	386809	10.0	9.76	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	94	449455	10.0	9.37	
110 1,3-Dichlorobenzene	146	10.863	10.863	0.000	75	227986	10.0	9.77	
111 4-Isopropyltoluene	119	10.863	10.863	0.000	96	399772	10.0	9.59	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	95	232483	10.0	9.90	
115 n-Butylbenzene	91	11.246	11.247	0.000	97	315227	10.0	9.31	
116 1,2-Dichlorobenzene	146	11.301	11.301	0.000	96	228816	10.0	10.3	
117 1,2-Dibromo-3-Chloropropan	75	12.031	12.031	0.000	78	18045	10.0	9.88	
119 1,2,4-Trichlorobenzene	180	12.706	12.707	-0.001	94	164515	10.0	10.0	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	96	64679	10.0	9.68	
121 Naphthalene	128	12.919	12.919	0.000	97	406629	10.0	9.92	
122 1,2,3-Trichlorobenzene	180	13.120	13.120	0.000	95	154142	10.0	9.85	
S 124 1,2-Dichloroethene, Total	1				0			19.3	
S 125 Total BTEX	1				0			48.3	
S 126 Xylenes, Total	1				0			19.6	
S 123 1,3-Dichloropropene, Total	1				0			19.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00141	Amount Added:	5.00	Units: uL	
GAS CORP mix_00314	Amount Added:	5.00	Units: uL	
N_8260_Surr_00354	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00134	Amount Added:	1.00	Units: uL	Run Reagent

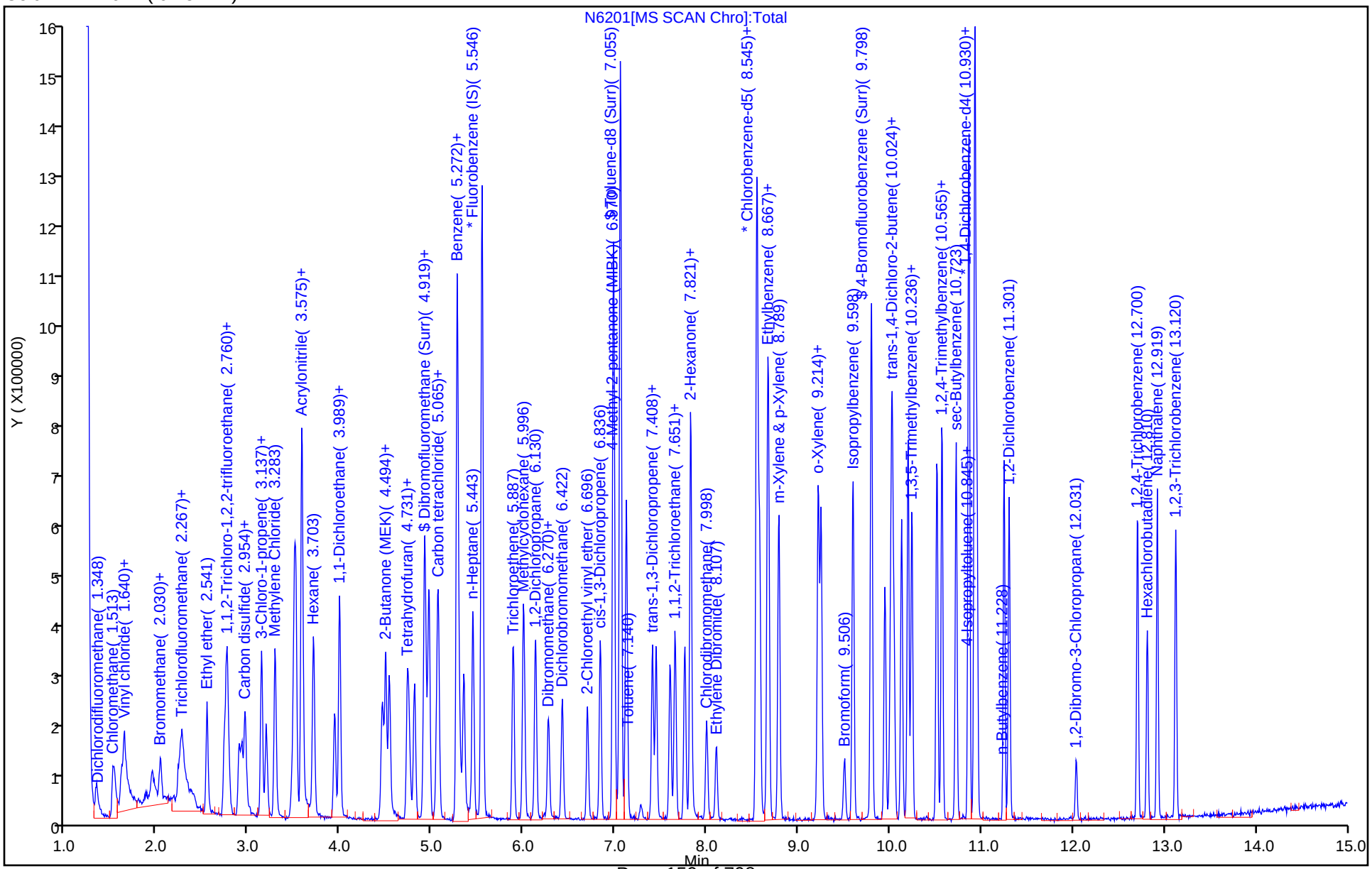
Report Date: 28-Nov-2018 12:49:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6201.D

Injection Date:	27-Nov-2018 16:21:30	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#:	7
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

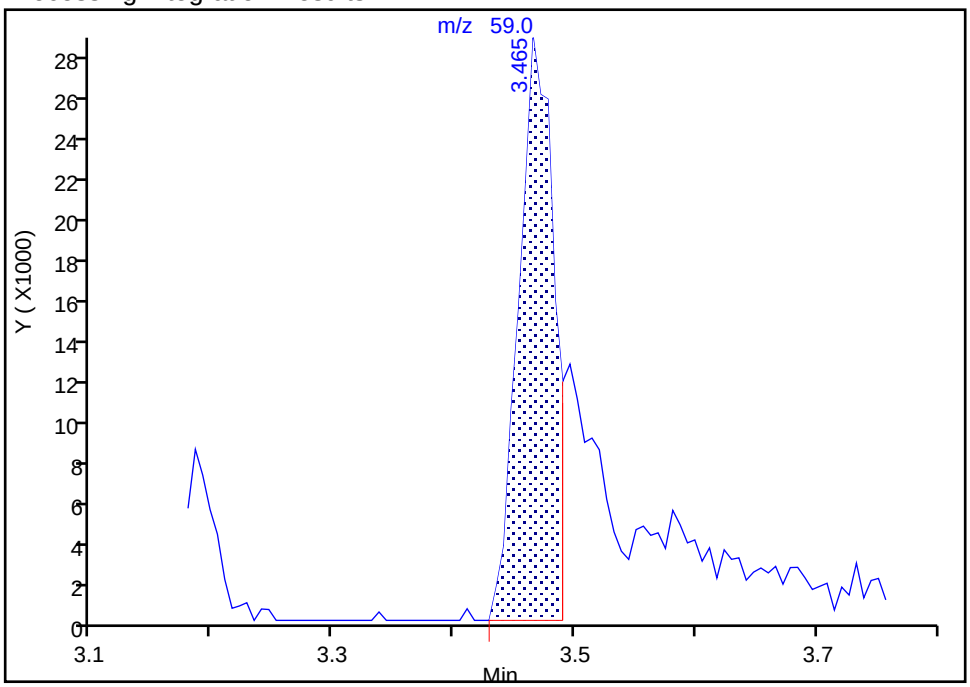
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6201.D
Injection Date: 27-Nov-2018 16:21:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

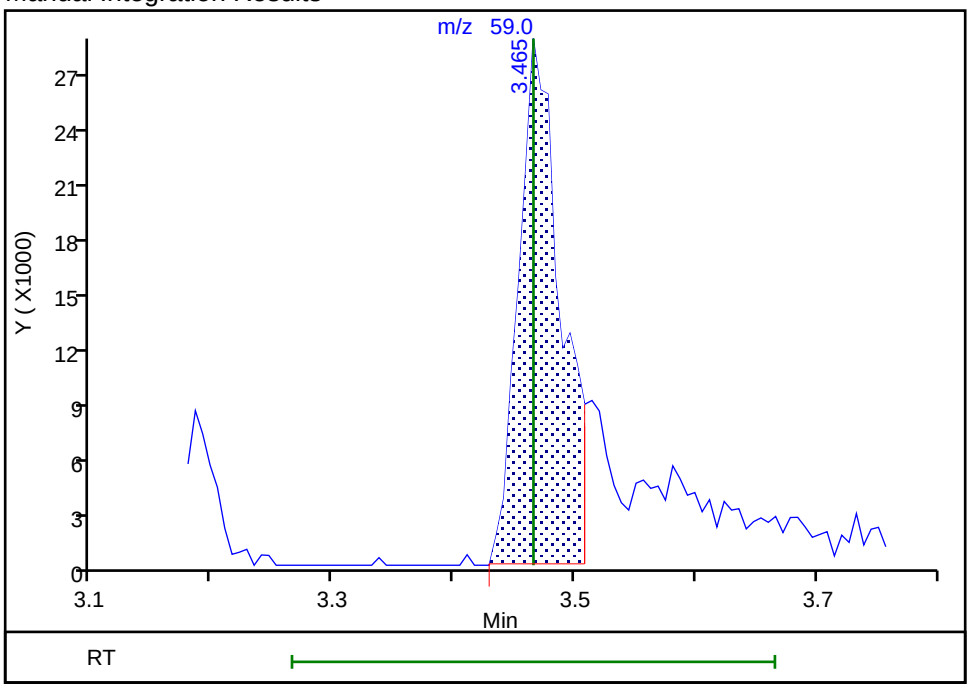
Processing Integration Results

RT: 3.47
Area: 57966
Amount: 85.954931
Amount Units: ug/L



Manual Integration Results

RT: 3.47
Area: 69239
Amount: 97.290703
Amount Units: ug/L



Reviewer: moffata, 28-Nov-2018 11:42:56
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

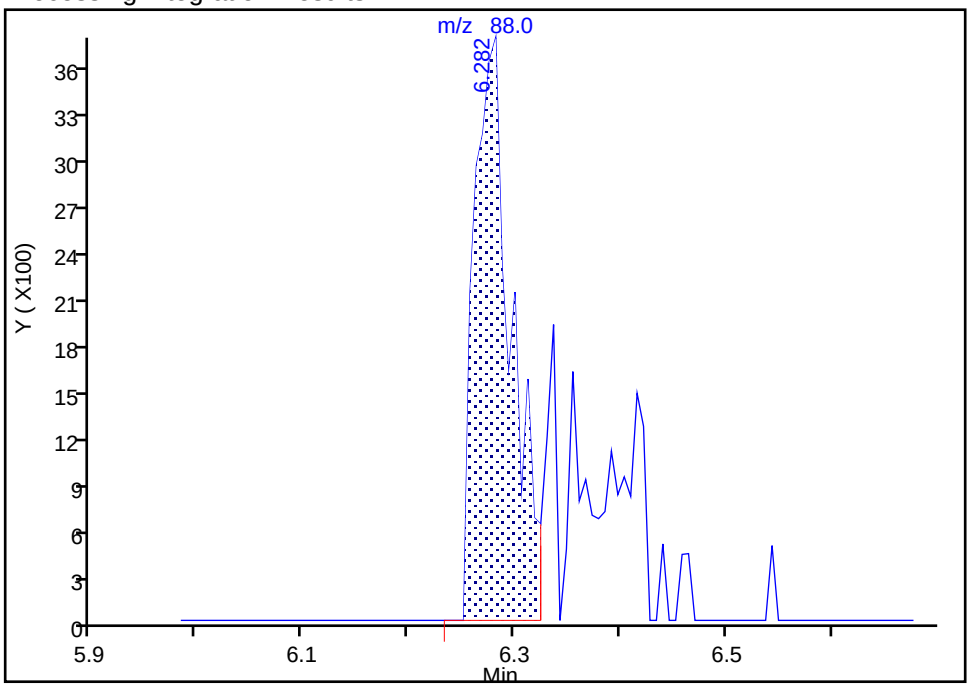
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6201.D
Injection Date: 27-Nov-2018 16:21:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

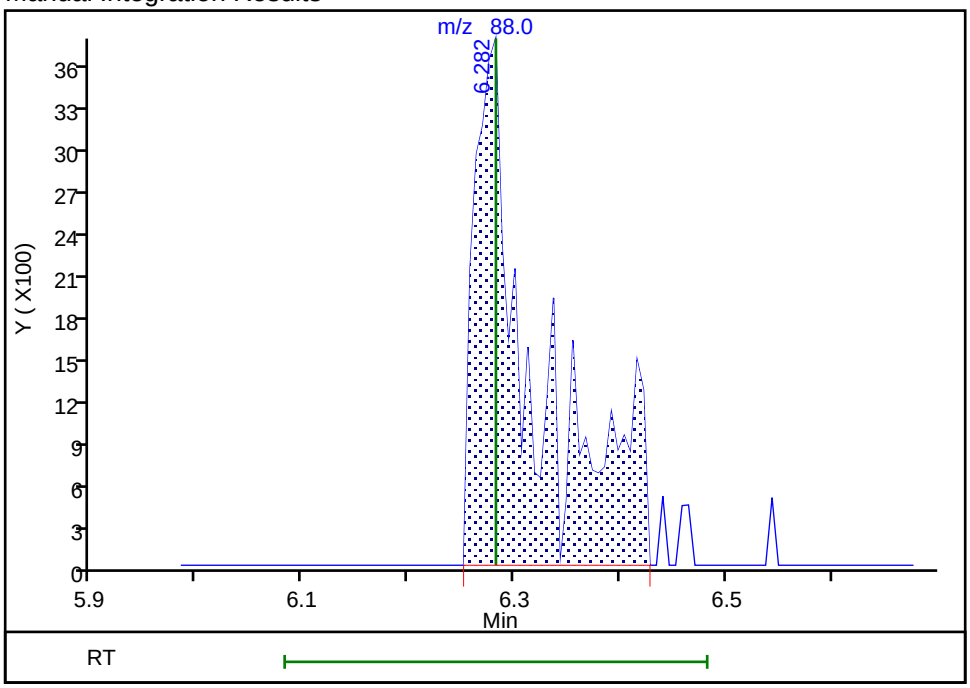
Processing Integration Results

RT: 6.28
Area: 9222
Amount: 170.4362
Amount Units: ug/L



Manual Integration Results

RT: 6.28
Area: 14809
Amount: 214.2998
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:38:42
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6202.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 27-Nov-2018 16:48:30 ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0076774-011
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2018 12:49:44 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0326

First Level Reviewer: baroner Date: 27-Nov-2018 21:24:12

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	5.546	5.546	0.000	98	171850	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	88	694112	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.930	10.930	0.000	95	360486	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.962	4.962	0.000	92	225445	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	315215	25.0	25.4	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	871840	25.0	24.4	
$ 7 4-Bromofluorobenzene (Surr	174	9.798	9.798	0.000	93	278327	25.0	24.5	
11 Dichlorodifluoromethane	85	1.330	1.330	0.000	98	226920	25.0	27.4	
13 Chloromethane	50	1.513	1.513	0.000	100	373144	25.0	24.3	
14 Vinyl chloride	62	1.604	1.604	0.000	98	269878	25.0	25.2	
144 Butadiene	54	1.646	1.646	0.000	99	247986	25.0	25.1	
15 Bromomethane	94	1.945	1.945	0.000	90	152297	25.0	21.9	
16 Chloroethane	64	2.030	2.030	0.000	96	160330	25.0	24.9	
18 Trichlorofluoromethane	101	2.231	2.231	0.000	98	335507	25.0	25.9	
17 Dichlorofluoromethane	67	2.261	2.261	0.000	96	357647	25.0	24.0	
19 Ethyl ether	59	2.535	2.535	0.000	96	270697	25.0	25.3	
20 Acrolein	56	2.723	2.723	0.000	99	286253	125.0	115.4	
22 1,1-Dichloroethene	96	2.754	2.754	0.000	93	216924	25.0	27.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	65	221976	25.0	27.3	
23 Acetone	43	2.888	2.888	0.000	97	471906	125.0	123.1	
24 Iodomethane	142	2.918	2.918	0.000	99	411871	25.0	25.3	
25 Carbon disulfide	76	2.954	2.954	0.000	97	676226	25.0	26.1	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	84	561444	25.0	24.6	
28 Methyl acetate	43	3.186	3.186	0.000	100	590150	50.0	46.6	
30 Methylene Chloride	84	3.283	3.283	0.000	91	255157	25.0	25.4	
31 2-Methyl-2-propanol	59	3.459	3.459	0.000	91	175666	250.0	248.1	M
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	97	803702	25.0	26.1	
33 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	93	242967	25.0	25.5	
34 Acrylonitrile	53	3.575	3.575	0.000	97	1429366	250.0	254.1	
35 Hexane	57	3.703	3.703	0.000	96	453469	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
36 1,1-Dichloroethane	63	3.934	3.934	0.000	98	480250	25.0	25.6	
39 Vinyl acetate	43	3.989	3.989	0.000	97	1559094	50.0	52.8	
42 2,2-Dichloropropane	77	4.451	4.451	0.000	84	337209	25.0	25.1	
43 cis-1,2-Dichloroethene	96	4.494	4.494	0.000	83	282223	25.0	25.3	
44 2-Butanone (MEK)	43	4.530	4.530	0.000	97	917659	125.0	131.4	
47 Chlorobromomethane	128	4.731	4.731	0.000	91	148097	25.0	24.2	
49 Tetrahydrofuran	42	4.749	4.749	0.000	92	250677	50.0	49.4	
50 Chloroform	83	4.804	4.804	0.000	96	425951	25.0	25.7	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	96	392285	25.0	26.0	
52 Cyclohexane	56	4.919	4.919	0.000	98	541829	25.0	27.3	
53 Carbon tetrachloride	117	5.047	5.047	0.000	94	358872	25.0	26.3	
54 1,1-Dichloropropene	75	5.065	5.065	0.000	83	313843	25.0	25.9	
55 Benzene	78	5.272	5.272	0.000	93	986281	25.0	25.5	
56 Isobutyl alcohol	43	5.297	5.297	0.000	92	321178	625.0	688.0	
57 1,2-Dichloroethane	62	5.345	5.345	0.000	95	437217	25.0	24.6	a
59 n-Heptane	43	5.443	5.443	0.000	97	560978	25.0	29.4	
60 Trichloroethene	95	5.881	5.881	0.000	93	247893	25.0	25.1	
62 Methylcyclohexane	83	5.996	5.996	0.000	95	410858	25.0	28.3	
63 1,2-Dichloropropane	63	6.124	6.124	0.000	86	268937	25.0	25.7	
64 Dibromomethane	93	6.270	6.270	0.000	93	170176	25.0	25.5	
66 1,4-Dioxane	88	6.276	6.276	0.000	32	38665	500.0	527.4	
67 Dichlorobromomethane	83	6.422	6.422	0.000	95	321963	25.0	26.1	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	89	195456	25.0	25.8	
71 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	84	389094	25.0	27.4	
72 4-Methyl-2-pentanone (MIBK	58	6.982	6.982	0.000	98	690927	125.0	129.7	
73 Toluene	92	7.122	7.122	0.000	97	625399	25.0	24.8	
75 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	92	359536	25.0	26.6	
77 Ethyl methacrylate	69	7.444	7.444	0.000	91	317781	25.0	26.3	
78 1,1,2-Trichloroethane	83	7.596	7.596	0.000	92	175594	25.0	25.3	
79 Tetrachloroethene	166	7.651	7.651	0.000	96	291107	25.0	25.9	
80 1,3-Dichloropropane	76	7.760	7.760	0.000	91	365258	25.0	25.6	
82 2-Hexanone	43	7.821	7.821	0.000	98	1491363	125.0	129.6	
83 Chlorodibromomethane	129	7.998	7.998	0.000	90	251718	25.0	26.5	
84 Ethylene Dibromide	107	8.101	8.101	0.000	97	243238	25.0	26.1	
85 Chlorobenzene	112	8.576	8.576	0.000	94	710629	25.0	25.0	
88 Ethylbenzene	91	8.667	8.667	0.000	98	1160947	25.0	25.3	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	92	265074	25.0	25.2	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	97	473589	25.0	26.1	
91 o-Xylene	106	9.214	9.214	0.000	97	467488	25.0	24.9	
92 Styrene	104	9.245	9.245	0.000	94	774265	25.0	25.9	
93 Bromoform	173	9.506	9.506	0.000	97	158072	25.0	27.3	
95 Isopropylbenzene	105	9.598	9.598	0.000	96	1233535	25.0	26.4	
97 Bromobenzene	156	9.944	9.944	0.000	84	334119	25.0	25.0	
98 1,1,2,2-Tetrachloroethane	83	10.005	10.005	0.000	95	291793	25.0	26.1	
100 N-Propylbenzene	91	10.024	10.024	0.000	99	1359547	25.0	26.2	
99 1,2,3-Trichloropropane	110	10.036	10.036	0.000	94	97624	25.0	23.9	
101 trans-1,4-Dichloro-2-buten	53	10.048	10.048	0.000	82	129119	25.0	25.4	
102 2-Chlorotoluene	126	10.127	10.127	0.000	96	299522	25.0	26.3	
104 1,3,5-Trimethylbenzene	105	10.194	10.194	0.000	96	1030765	25.0	26.4	
105 4-Chlorotoluene	91	10.237	10.237	0.000	97	830866	25.0	25.5	
106 tert-Butylbenzene	134	10.510	10.510	0.000	94	237148	25.0	26.5	
108 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	98	1073128	25.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	95	1300117	25.0	26.5	
110 1,3-Dichlorobenzene	146	10.863	10.863	0.000	72	598420	25.0	25.1	
111 4-Isopropyltoluene	119	10.863	10.863	0.000	97	1159678	25.0	27.2	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	94	617617	25.0	25.7	
115 n-Butylbenzene	91	11.246	11.246	0.000	97	955721	25.0	27.6	
116 1,2-Dichlorobenzene	146	11.301	11.301	0.000	97	593955	25.0	26.2	
117 1,2-Dibromo-3-Chloropropan	75	12.031	12.031	0.000	81	47703	25.0	25.6	
119 1,2,4-Trichlorobenzene	180	12.706	12.706	0.000	94	430878	25.0	25.7	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	96	187396	25.0	27.4	
121 Naphthalene	128	12.919	12.919	0.000	97	1104854	25.0	26.4	
122 1,2,3-Trichlorobenzene	180	13.120	13.120	0.000	96	405400	25.0	25.4	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00141	Amount Added: 12.50	Units: uL	
GAS CORP mix_00314	Amount Added: 12.50	Units: uL	
N_8260_Surr_00354	Amount Added: 1.00	Units: uL	Run Reagent
N 8260 IS_00134	Amount Added: 1.00	Units: uL	Run Reagent

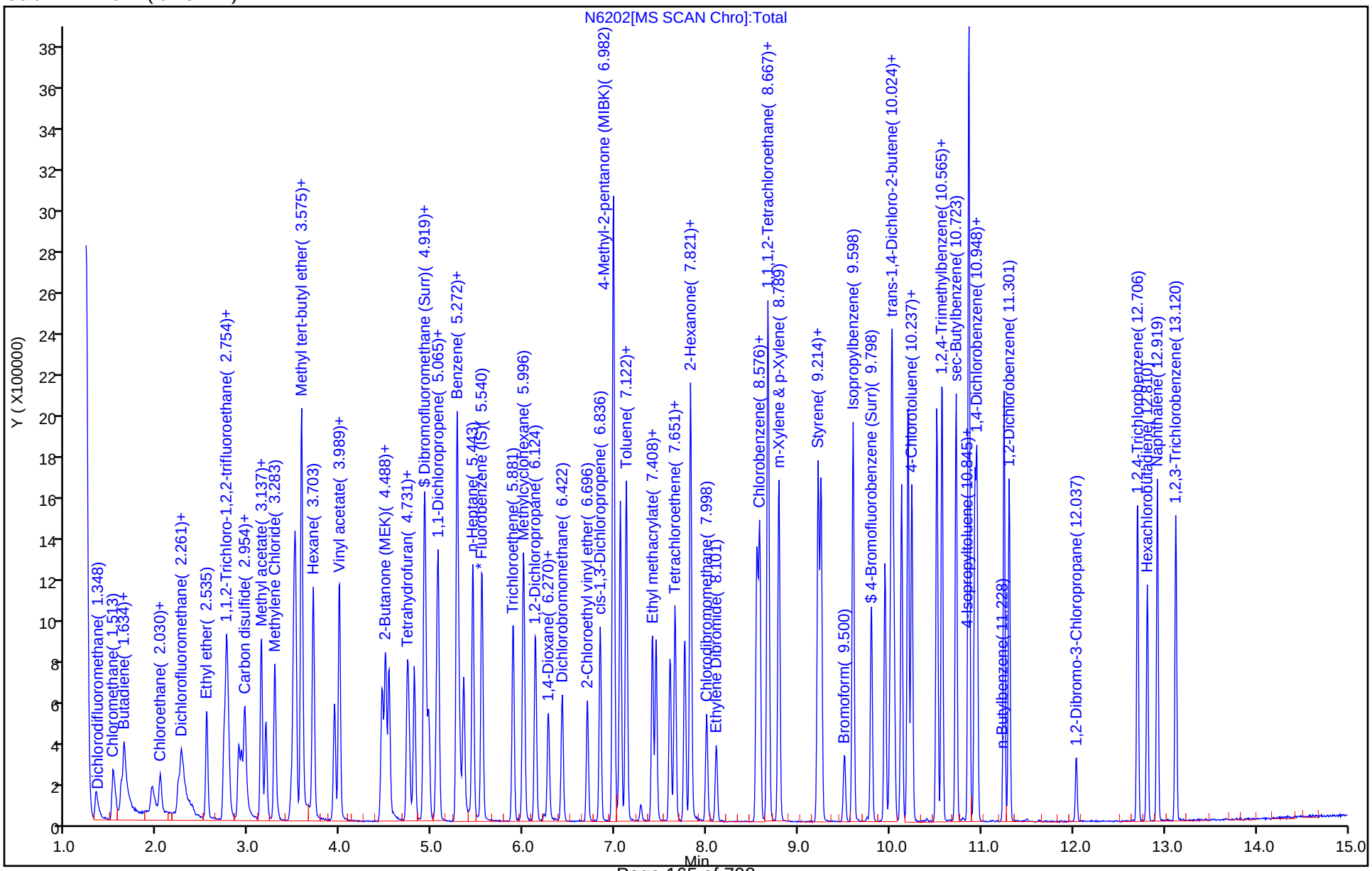
Report Date: 28-Nov-2018 12:49:46 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6202.D

Injection Date:	27-Nov-2018 16:48:30	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#:	8
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

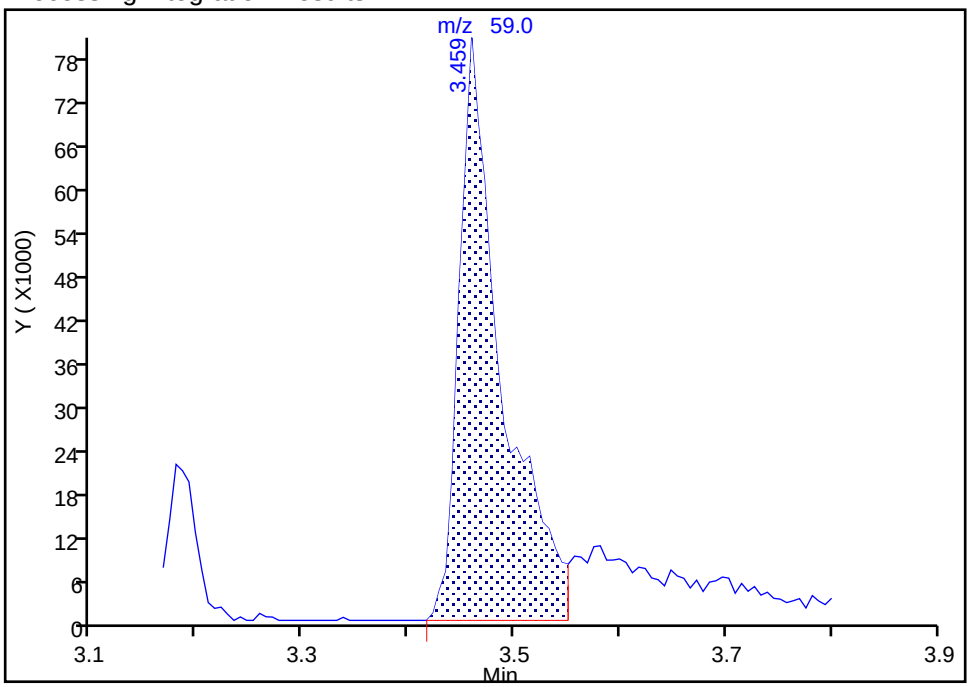
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6202.D
Injection Date: 27-Nov-2018 16:48:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

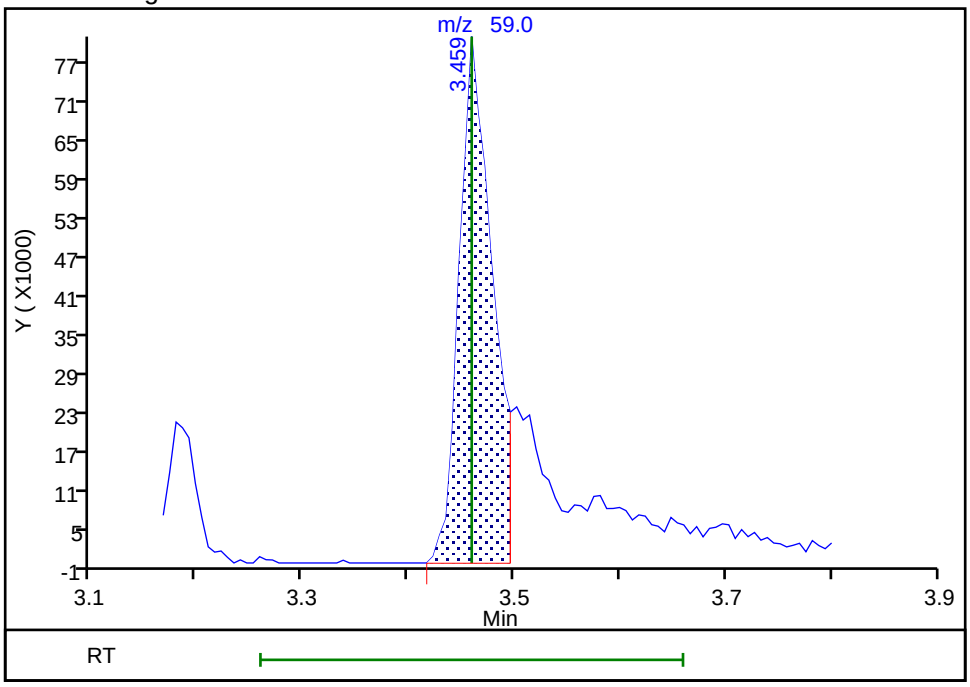
Processing Integration Results

RT: 3.46
Area: 225587
Amount: 313.7025
Amount Units: ug/L



Manual Integration Results

RT: 3.46
Area: 175666
Amount: 248.0553
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 22:06:15
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

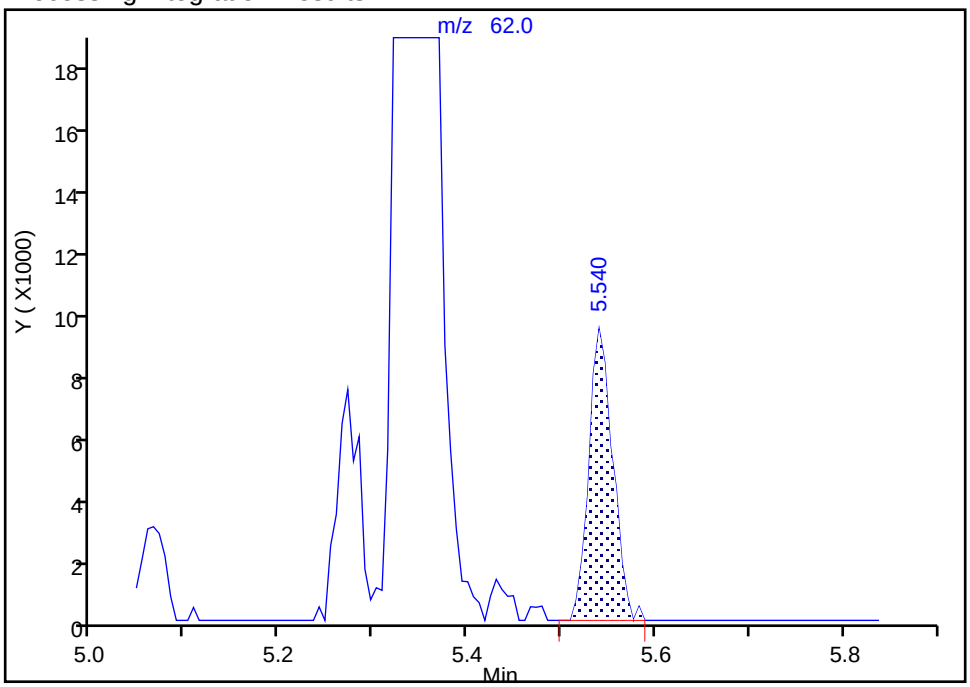
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6202.D
Injection Date: 27-Nov-2018 16:48:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

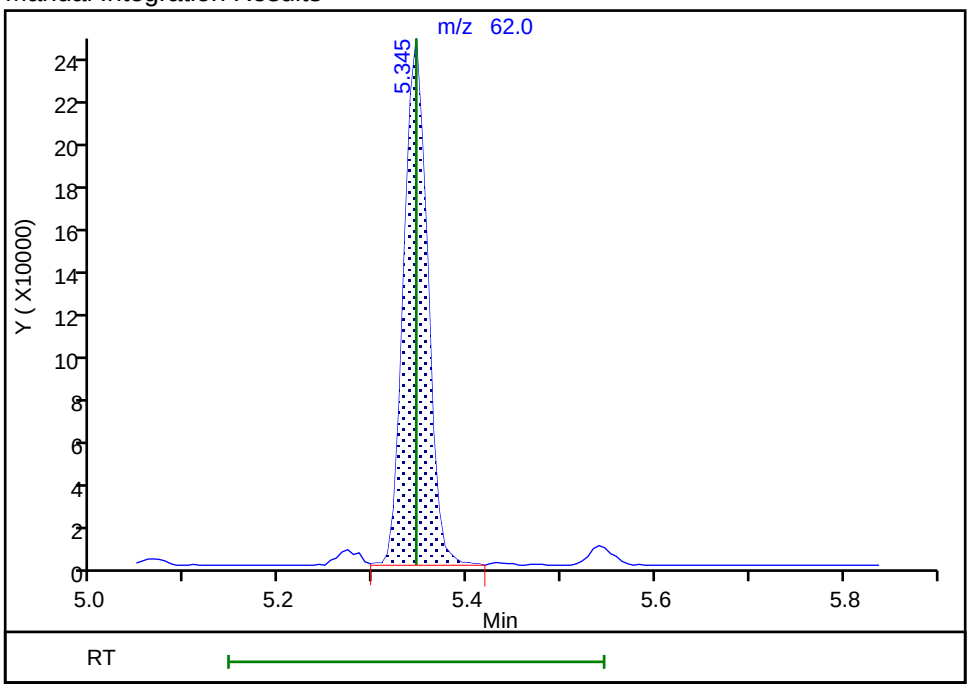
Processing Integration Results

RT: 5.54
Area: 16356
Amount: 2.012765
Amount Units: ug/L



Manual Integration Results

RT: 5.35
Area: 437217
Amount: 24.640460
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:23:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6203.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Nov-2018 17:15:30 ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0076774-012
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2018 12:49:49 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0326

First Level Reviewer: baroner Date: 27-Nov-2018 21:39:08

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	5.546	5.546	0.000	98	182036	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	89	714414	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.930	10.930	0.000	95	381291	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.962	4.962	0.000	92	238834	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	323367	25.0	24.6	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	921871	25.0	25.1	
$ 7 4-Bromofluorobenzene (Surr	174	9.799	9.798	0.001	93	293801	25.0	25.1	
11 Dichlorodifluoromethane	85	1.336	1.330	0.006	98	423546	50.0	48.3	M
13 Chloromethane	50	1.519	1.513	0.006	99	735443	50.0	45.3	
14 Vinyl chloride	62	1.610	1.604	0.006	98	520683	50.0	45.9	
144 Butadiene	54	1.647	1.646	0.001	98	522805	50.0	49.9	
15 Bromomethane	94	1.945	1.945	0.000	92	297927	50.0	40.4	
16 Chloroethane	64	2.036	2.030	0.006	95	310797	50.0	46.2	
18 Trichlorofluoromethane	101	2.237	2.231	0.007	97	645803	50.0	47.1	
17 Dichlorofluoromethane	67	2.267	2.261	0.006	97	712720	50.0	45.1	
19 Ethyl ether	59	2.541	2.535	0.006	97	548755	50.0	48.3	
20 Acrolein	56	2.729	2.723	0.006	99	599700	250.0	228.2	
22 1,1-Dichloroethene	96	2.760	2.754	0.006	93	431848	50.0	51.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	91	436774	50.0	50.7	
23 Acetone	43	2.888	2.888	0.000	97	974929	250.0	240.1	
24 Iodomethane	142	2.924	2.918	0.006	100	837800	50.0	48.5	
25 Carbon disulfide	76	2.954	2.954	0.000	98	1355743	50.0	49.5	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	84	1170241	50.0	48.5	
28 Methyl acetate	43	3.186	3.186	0.000	100	1275263	100.0	95.2	
30 Methylene Chloride	84	3.283	3.283	0.000	92	505964	50.0	48.6	
31 2-Methyl-2-propanol	59	3.459	3.459	0.000	98	345119	500.0	460.1	
32 Methyl tert-butyl ether	73	3.496	3.490	0.006	97	1651987	50.0	50.6	
33 trans-1,2-Dichloroethene	96	3.514	3.508	0.006	92	503698	50.0	49.8	
34 Acrylonitrile	53	3.575	3.575	0.000	97	2887578	500.0	484.7	
35 Hexane	57	3.703	3.703	0.000	96	956504	50.0	52.5	

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	3.934	3.934	0.000	97	993657	50.0	50.0	
39 Vinyl acetate	43	3.989	3.989	0.000	97	3410770	100.0	109.0	
42 2,2-Dichloropropane	77	4.457	4.451	0.006	83	663763	50.0	46.7	
43 cis-1,2-Dichloroethene	96	4.494	4.494	0.000	84	579191	50.0	49.0	
44 2-Butanone (MEK)	43	4.530	4.530	0.000	97	1826950	250.0	247.0	
47 Chlorobromomethane	128	4.731	4.731	0.000	91	301157	50.0	46.5	
49 Tetrahydrofuran	42	4.743	4.749	-0.006	92	511158	100.0	95.0	
50 Chloroform	83	4.810	4.804	0.006	96	888738	50.0	50.6	
51 1,1,1-Trichloroethane	97	4.919	4.913	0.006	97	811263	50.0	50.8	
52 Cyclohexane	56	4.919	4.919	0.000	97	1129731	50.0	53.8	
53 Carbon tetrachloride	117	5.053	5.047	0.006	95	740022	50.0	51.2	
54 1,1-Dichloropropene	75	5.065	5.065	0.000	84	659293	50.0	51.3	
55 Benzene	78	5.272	5.272	0.000	95	2052851	50.0	50.1	
56 Isobutyl alcohol	43	5.297	5.297	0.000	92	570188	1250.0	1153.1	
57 1,2-Dichloroethane	62	5.345	5.345	0.000	95	916458	50.0	48.8	
59 n-Heptane	43	5.443	5.443	0.000	97	1094569	50.0	54.2	
60 Trichloroethene	95	5.887	5.881	0.006	93	512688	50.0	49.1	
62 Methylcyclohexane	83	5.996	5.996	0.000	96	869813	50.0	56.6	
63 1,2-Dichloropropane	63	6.130	6.124	0.006	84	554720	50.0	50.0	
64 Dibromomethane	93	6.270	6.270	0.000	92	348337	50.0	49.3	
66 1,4-Dioxane	88	6.276	6.276	0.000	31	73617	1000.0	967.8	M
67 Dichlorobromomethane	83	6.422	6.422	0.000	96	693459	50.0	53.1	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	88	411403	50.0	51.2	
71 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	84	810276	50.0	53.9	
72 4-Methyl-2-pentanone (MIBK	58	6.982	6.982	0.000	99	1447109	250.0	264.0	
73 Toluene	92	7.122	7.122	0.000	97	1334790	50.0	51.4	
75 trans-1,3-Dichloropropene	75	7.408	7.402	0.006	92	763600	50.0	54.9	
77 Ethyl methacrylate	69	7.444	7.444	0.000	91	674443	50.0	54.2	
78 1,1,2-Trichloroethane	83	7.596	7.596	0.000	94	364517	50.0	51.1	
79 Tetrachloroethene	166	7.651	7.651	0.000	96	609473	50.0	52.6	
80 1,3-Dichloropropane	76	7.761	7.760	0.001	91	762039	50.0	51.9	
82 2-Hexanone	43	7.821	7.821	0.000	97	3114002	250.0	263.0	
83 Chlorodibromomethane	129	7.998	7.998	0.000	90	560938	50.0	57.3	
84 Ethylene Dibromide	107	8.101	8.101	0.000	99	512771	50.0	53.5	
85 Chlorobenzene	112	8.576	8.576	0.000	94	1504603	50.0	51.3	
88 Ethylbenzene	91	8.667	8.667	0.000	98	2453403	50.0	52.0	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	93	574345	50.0	53.0	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	98	1012061	50.0	54.3	
91 o-Xylene	106	9.214	9.214	0.000	97	996195	50.0	51.6	
92 Styrene	104	9.245	9.245	0.000	95	1645827	50.0	53.4	
93 Bromoform	173	9.500	9.506	-0.006	96	341683	50.0	57.3	
95 Isopropylbenzene	105	9.598	9.598	0.000	96	2612076	50.0	52.8	
97 Bromobenzene	156	9.945	9.944	0.001	87	689772	50.0	48.8	
98 1,1,2,2-Tetrachloroethane	83	9.999	10.005	-0.006	94	604199	50.0	51.1	
100 N-Propylbenzene	91	10.024	10.024	0.000	99	2872510	50.0	52.4	
99 1,2,3-Trichloropropane	110	10.036	10.036	0.000	94	202141	50.0	46.7	
101 trans-1,4-Dichloro-2-buten	53	10.048	10.048	0.000	81	278256	50.0	51.8	
102 2-Chlorotoluene	126	10.127	10.127	0.000	96	626055	50.0	51.9	
104 1,3,5-Trimethylbenzene	105	10.194	10.194	0.000	95	2189733	50.0	53.0	
105 4-Chlorotoluene	91	10.237	10.237	0.001	97	1774845	50.0	51.5	
106 tert-Butylbenzene	134	10.510	10.510	0.000	94	491063	50.0	51.9	
108 1,2,4-Trimethylbenzene	105	10.565	10.571	-0.006	98	2253660	50.0	52.6	

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	10.723	10.723	0.000	94	2772826	50.0	53.5	
110 1,3-Dichlorobenzene	146	10.863	10.863	0.000	72	1258018	50.0	49.9	
111 4-Isopropyltoluene	119	10.863	10.863	0.000	97	2458440	50.0	54.6	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	95	1291655	50.0	50.9	
115 n-Butylbenzene	91	11.246	11.246	0.000	97	2010673	50.0	54.9	
116 1,2-Dichlorobenzene	146	11.301	11.301	0.000	97	1241314	50.0	51.8	
117 1,2-Dibromo-3-Chloropropan	75	12.037	12.031	0.006	82	103684	50.0	52.5	
119 1,2,4-Trichlorobenzene	180	12.706	12.706	0.000	94	906625	50.0	51.1	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	96	387545	50.0	53.7	
121 Naphthalene	128	12.919	12.919	0.000	97	2344965	50.0	52.9	
122 1,2,3-Trichlorobenzene	180	13.120	13.120	0.000	95	843356	50.0	49.9	
S 124 1,2-Dichloroethene, Total	1				0			98.8	
S 125 Total BTEX	1				0			259.3	
S 126 Xylenes, Total	1				0			105.8	
S 123 1,3-Dichloropropene, Total	1				0			108.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00141	Amount Added: 25.00	Units: uL		
GAS CORP mix_00314	Amount Added: 25.00	Units: uL		
N_8260_Surr_00354	Amount Added: 1.00	Units: uL	Run Reagent	
N 8260 IS_00134	Amount Added: 1.00	Units: uL	Run Reagent	

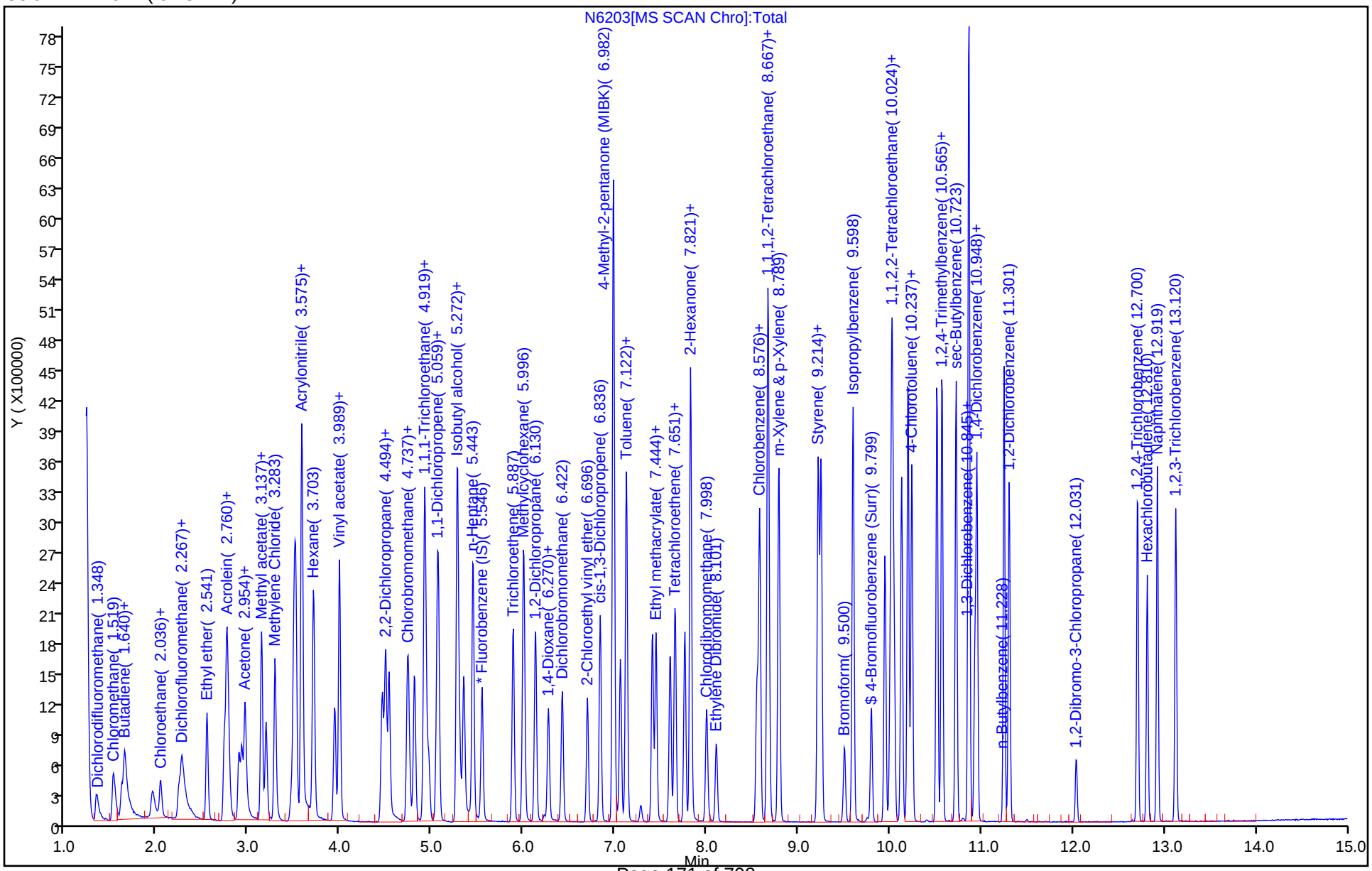
Report Date: 28-Nov-2018 12:49:51 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6203.D

Injection Date:	27-Nov-2018 17:15:30	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#:	9
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

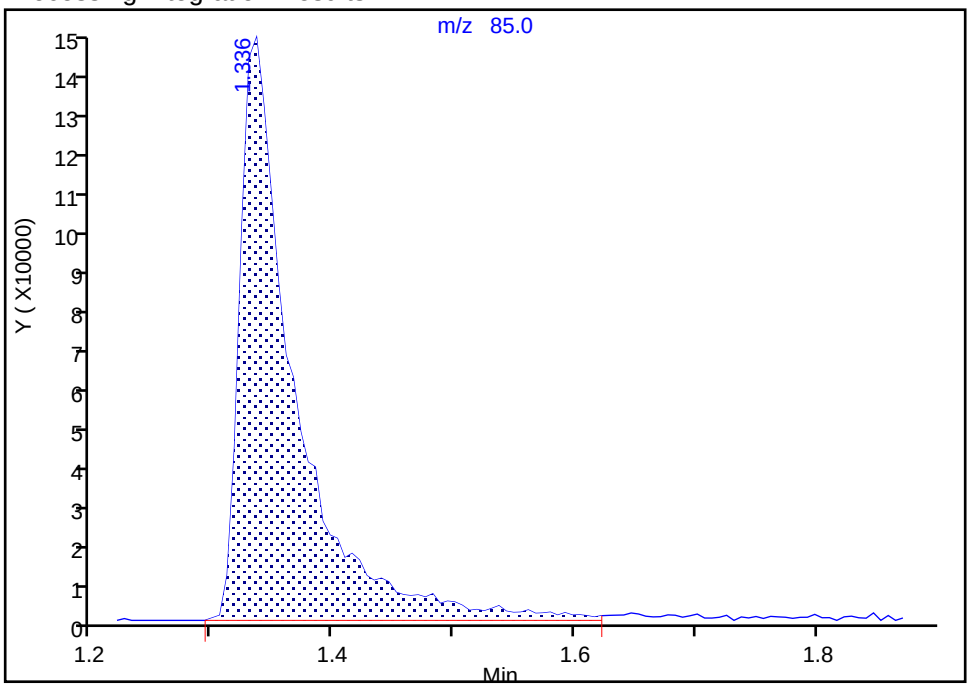
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6203.D
Injection Date: 27-Nov-2018 17:15:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

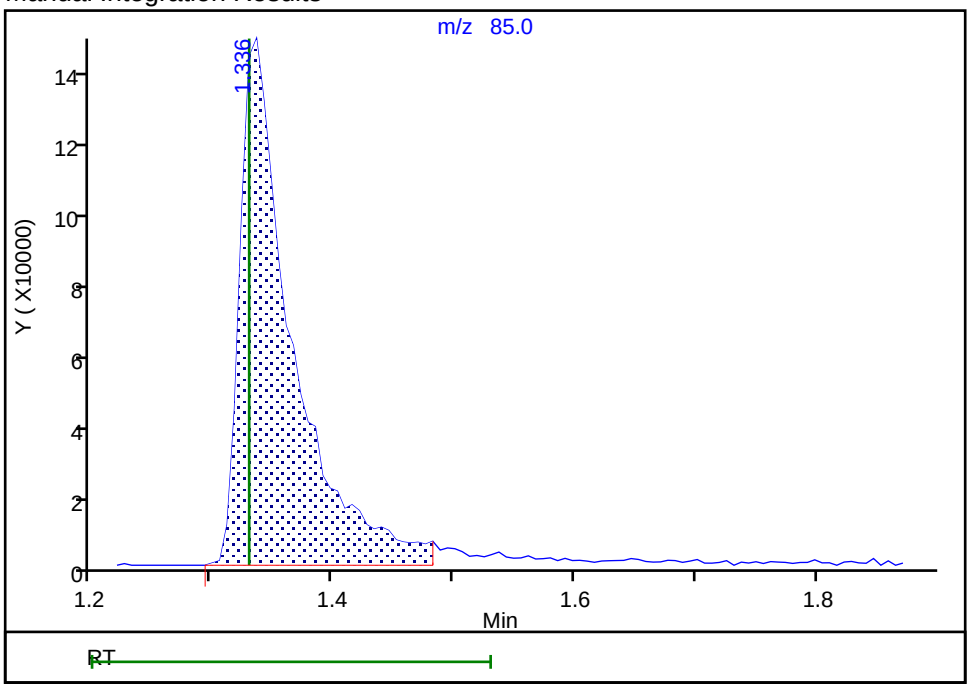
Processing Integration Results

RT: 1.34
Area: 442804
Amount: 46.444786
Amount Units: ug/L



Manual Integration Results

RT: 1.34
Area: 423546
Amount: 48.263274
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 22:00:24
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

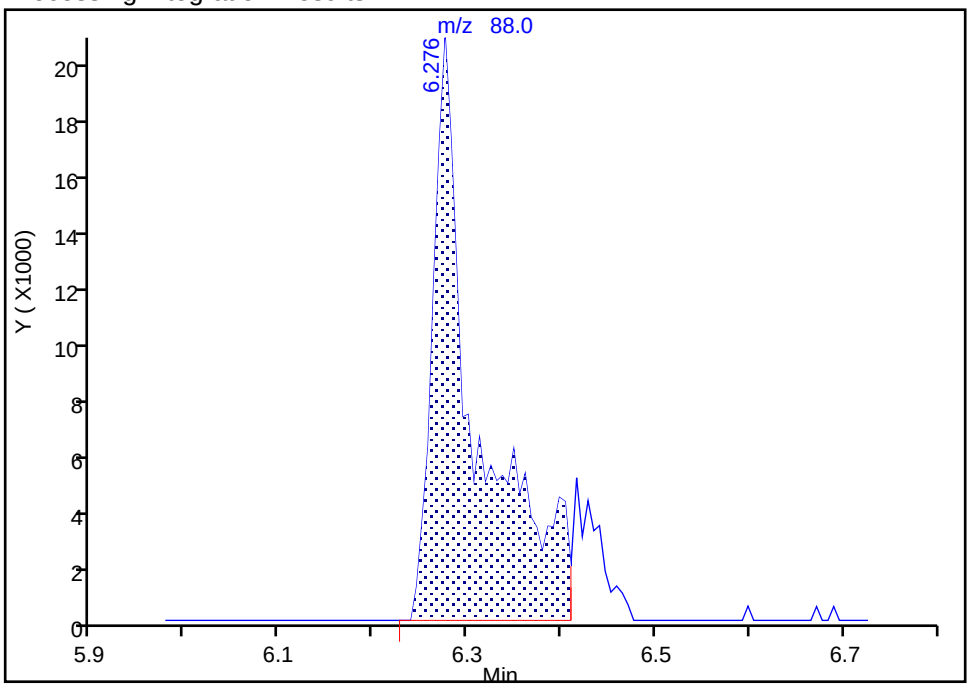
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6203.D
Injection Date: 27-Nov-2018 17:15:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

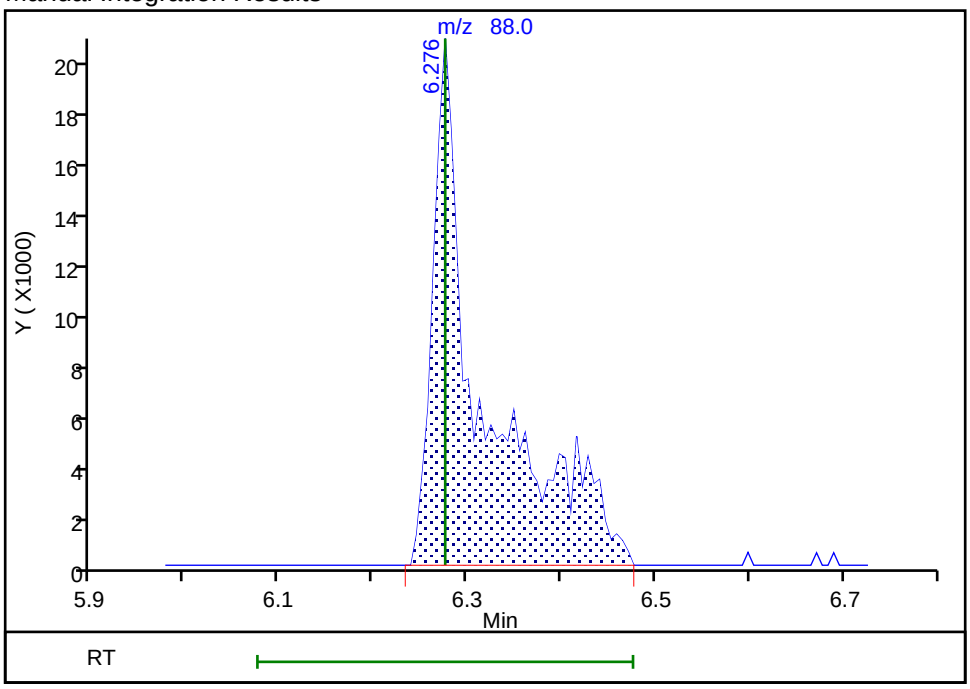
Processing Integration Results

RT: 6.28
Area: 65004
Amount: 1052.1542
Amount Units: ug/L



Manual Integration Results

RT: 6.28
Area: 73617
Amount: 967.7759
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:39:06
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6204.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 27-Nov-2018 17:43:30 ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0076774-013
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2018 12:49:54 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0326

First Level Reviewer: baroner Date: 27-Nov-2018 21:39:56

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	5.546	5.546	0.000	98	177952	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	89	728842	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.930	10.930	0.000	96	376101	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.968	4.962	0.006	92	238057	25.0	25.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	313626	25.0	24.4	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	942059	25.0	25.1	
$ 7 4-Bromofluorobenzene (Surr	174	9.799	9.798	0.001	92	301133	25.0	25.2	
11 Dichlorodifluoromethane	85	1.336	1.330	0.006	98	941401	100.0	109.7	M
13 Chloromethane	50	1.519	1.513	0.006	99	1593097	100.0	100.3	
14 Vinyl chloride	62	1.610	1.604	0.006	97	1176742	100.0	106.1	
144 Butadiene	54	1.641	1.646	-0.005	97	1171110	100.0	114.4	
15 Bromomethane	94	1.945	1.945	0.000	91	649382	100.0	90.1	
16 Chloroethane	64	2.030	2.030	0.000	95	680152	100.0	104.5	M
18 Trichlorofluoromethane	101	2.237	2.231	0.007	97	1454036	100.0	108.6	
17 Dichlorofluoromethane	67	2.267	2.261	0.006	97	1569318	100.0	101.6	
19 Ethyl ether	59	2.541	2.535	0.006	97	1140009	100.0	102.7	
20 Acrolein	56	2.730	2.723	0.007	99	1283101	500.0	499.4	
22 1,1-Dichloroethene	96	2.760	2.754	0.006	93	872586	100.0	106.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	91	887110	100.0	105.3	
23 Acetone	43	2.888	2.888	0.000	97	2172003	500.0	547.1	
24 Iodomethane	142	2.924	2.918	0.006	100	1744834	100.0	103.4	
25 Carbon disulfide	76	2.955	2.954	0.001	98	2856091	100.0	106.6	
27 3-Chloro-1-propene	41	3.137	3.137	0.000	84	2413446	100.0	102.2	
28 Methyl acetate	43	3.186	3.186	0.000	100	2678288	200.0	204.4	
30 Methylene Chloride	84	3.283	3.283	0.000	92	1013648	100.0	101.0	
31 2-Methyl-2-propanol	59	3.460	3.459	0.001	97	937313	1000.0	1278.2	
32 Methyl tert-butyl ether	73	3.496	3.490	0.006	97	3395822	100.0	106.4	
33 trans-1,2-Dichloroethene	96	3.514	3.508	0.006	92	1032052	100.0	104.4	
34 Acrylonitrile	53	3.575	3.575	0.000	98	6393572	1000.0	1097.8	
35 Hexane	57	3.703	3.703	0.000	95	1908152	100.0	107.1	

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	3.934	3.934	0.000	97	2074094	100.0	106.7	
39 Vinyl acetate	43	3.989	3.989	0.000	97	7500939	200.0	245.1	
42 2,2-Dichloropropane	77	4.457	4.451	0.006	87	1354808	100.0	97.4	
43 cis-1,2-Dichloroethene	96	4.494	4.494	0.000	84	1180214	100.0	102.1	
44 2-Butanone (MEK)	43	4.530	4.530	0.000	97	3969885	500.0	549.1	
47 Chlorobromomethane	128	4.731	4.731	0.000	91	633116	100.0	100.1	
49 Tetrahydrofuran	42	4.743	4.749	-0.006	92	1032772	200.0	196.4	
50 Chloroform	83	4.810	4.804	0.006	96	1839542	100.0	107.1	
51 1,1,1-Trichloroethane	97	4.920	4.913	0.007	97	1676469	100.0	107.3	
52 Cyclohexane	56	4.920	4.919	0.001	97	2290001	100.0	111.5	
53 Carbon tetrachloride	117	5.053	5.047	0.006	95	1542291	100.0	109.1	
54 1,1-Dichloropropene	75	5.066	5.065	0.001	85	1342028	100.0	106.8	
55 Benzene	78	5.272	5.272	0.000	96	4264857	100.0	106.4	
56 Isobutyl alcohol	43	5.297	5.297	0.000	91	1461114	2500.0	3022.6	
57 1,2-Dichloroethane	62	5.345	5.345	0.000	96	1903225	100.0	103.6	
59 n-Heptane	43	5.449	5.443	0.006	97	2261957	100.0	114.7	M
60 Trichloroethene	95	5.887	5.881	0.006	92	1038097	100.0	101.7	
62 Methylcyclohexane	83	6.002	5.996	0.006	96	1744711	100.0	116.2	
63 1,2-Dichloropropane	63	6.130	6.124	0.006	84	1156202	100.0	106.7	
64 Dibromomethane	93	6.270	6.270	0.000	92	719276	100.0	104.1	
66 1,4-Dioxane	88	6.276	6.276	0.000	31	155125	2000.0	1989.1	M
67 Dichlorobromomethane	83	6.422	6.422	0.000	96	1456464	100.0	114.0	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	89	849335	100.0	108.2	
71 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	84	1686811	100.0	114.7	
72 4-Methyl-2-pentanone (MIBK	58	6.982	6.982	0.000	98	3063752	500.0	547.8	
73 Toluene	92	7.122	7.122	0.000	97	2736097	100.0	103.3	
75 trans-1,3-Dichloropropene	75	7.408	7.402	0.006	93	1621634	100.0	114.2	
77 Ethyl methacrylate	69	7.444	7.444	0.000	90	1429327	100.0	112.5	
78 1,1,2-Trichloroethane	83	7.602	7.596	0.006	94	784788	100.0	107.9	
79 Tetrachloroethene	166	7.657	7.651	0.006	96	1252456	100.0	106.0	
80 1,3-Dichloropropane	76	7.761	7.760	0.001	90	1587094	100.0	106.0	
82 2-Hexanone	43	7.821	7.821	0.000	97	6688520	500.0	553.6	
83 Chlorodibromomethane	129	7.998	7.998	0.000	90	1211132	100.0	121.3	
84 Ethylene Dibromide	107	8.107	8.101	0.006	97	1067906	100.0	109.1	
85 Chlorobenzene	112	8.576	8.576	0.000	94	3124366	100.0	104.5	
88 Ethylbenzene	91	8.667	8.667	0.000	98	5202540	100.0	108.1	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	94	1198510	100.0	108.4	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	98	2065150	100.0	108.5	
91 o-Xylene	106	9.221	9.214	0.007	97	2052079	100.0	104.2	
92 Styrene	104	9.251	9.245	0.006	95	3493604	100.0	111.1	
93 Bromoform	173	9.501	9.506	-0.005	96	767763	100.0	126.2	
95 Isopropylbenzene	105	9.598	9.598	0.000	96	5488713	100.0	112.5	
97 Bromobenzene	156	9.945	9.944	0.001	87	1444118	100.0	103.7	
98 1,1,2,2-Tetrachloroethane	83	10.005	10.005	0.000	94	1225441	100.0	105.0	
100 N-Propylbenzene	91	10.024	10.024	0.000	99	6029872	100.0	111.5	
99 1,2,3-Trichloropropane	110	10.036	10.036	0.000	92	412723	100.0	96.7	
101 trans-1,4-Dichloro-2-buten	53	10.048	10.048	0.000	80	603686	100.0	113.9	
102 2-Chlorotoluene	126	10.127	10.127	0.000	96	1270883	100.0	106.8	
104 1,3,5-Trimethylbenzene	105	10.200	10.194	0.006	95	4568602	100.0	112.1	
105 4-Chlorotoluene	91	10.237	10.237	0.001	97	3720415	100.0	109.5	
106 tert-Butylbenzene	134	10.517	10.510	0.006	94	1021362	100.0	109.4	
108 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	98	4722998	100.0	111.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	94	5724137	100.0	111.9	
110 1,3-Dichlorobenzene	146	10.863	10.863	0.000	70	2670962	100.0	107.4	
111 4-Isopropyltoluene	119	10.863	10.863	0.000	97	5108495	100.0	115.0	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	95	2704951	100.0	108.1	
115 n-Butylbenzene	91	11.247	11.246	0.001	97	4108335	100.0	113.8	
116 1,2-Dichlorobenzene	146	11.301	11.301	0.000	97	2568215	100.0	108.7	
117 1,2-Dibromo-3-Chloropropan	75	12.031	12.031	0.000	90	221246	100.0	113.7	
119 1,2,4-Trichlorobenzene	180	12.707	12.706	0.001	94	1815946	100.0	103.7	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	97	734248	100.0	103.0	
121 Naphthalene	128	12.920	12.919	0.001	97	4989428	100.0	114.2	
122 1,2,3-Trichlorobenzene	180	13.120	13.120	0.000	96	1751946	100.0	105.1	
S 124 1,2-Dichloroethene, Total	1				0			206.5	
S 125 Total BTEX	1				0			530.5	
S 126 Xylenes, Total	1				0			212.7	
S 123 1,3-Dichloropropene, Total	1				0			228.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00141	Amount Added: 50.00	Units: uL		
GAS CORP mix_00314	Amount Added: 50.00	Units: uL		
N_8260_Surr_00354	Amount Added: 1.00	Units: uL	Run Reagent	
N 8260 IS_00134	Amount Added: 1.00	Units: uL	Run Reagent	

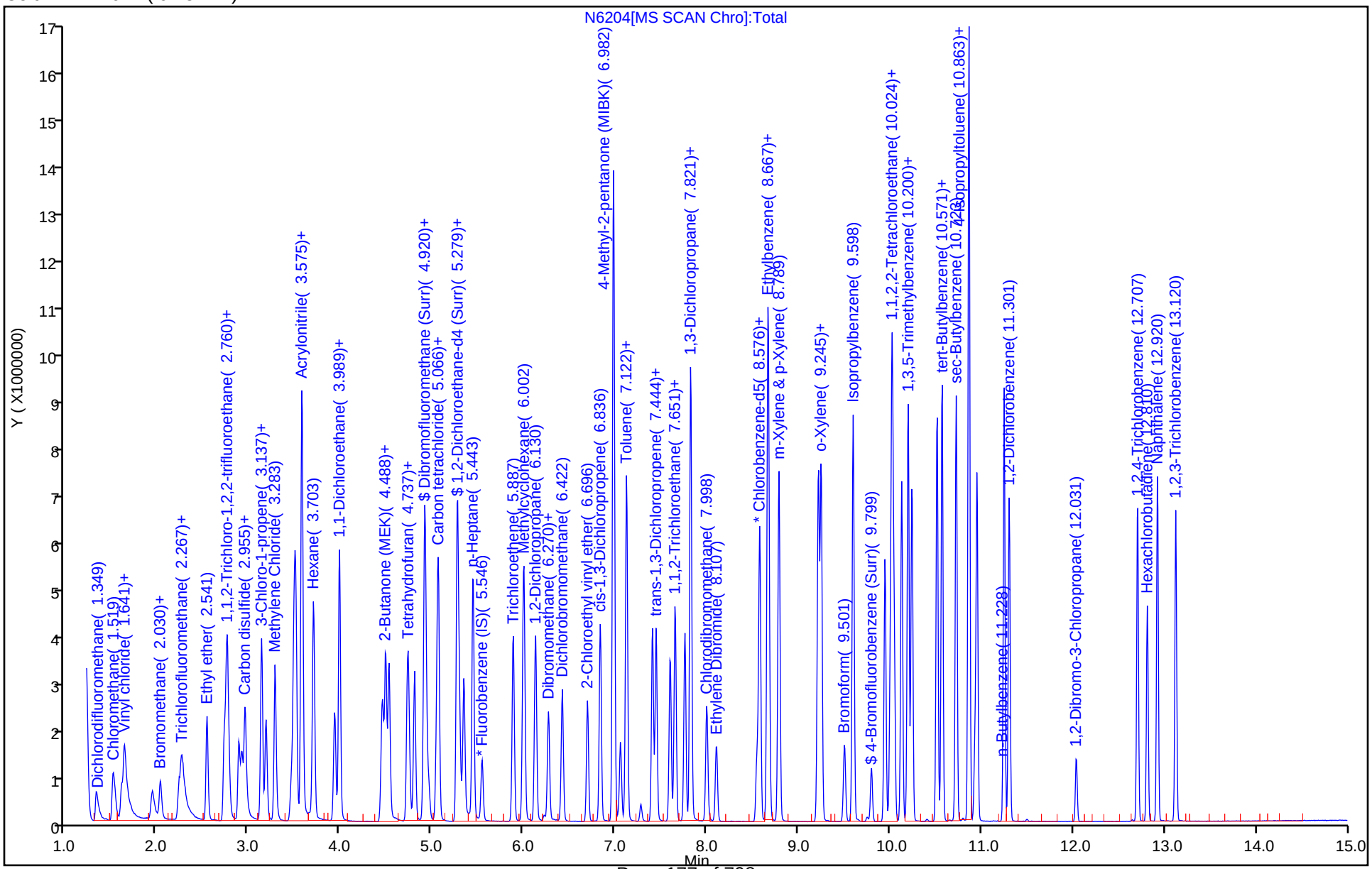
Report Date: 28-Nov-2018 12:49:56 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6204.D

Injection Date:	27-Nov-2018 17:43:30	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#:	10
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

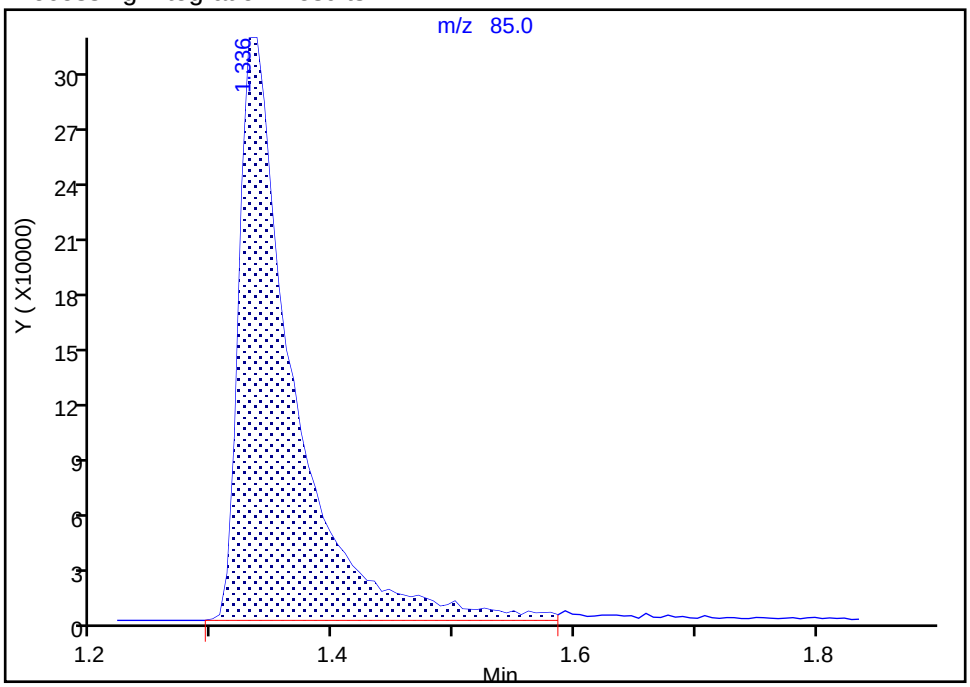
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6204.D
Injection Date: 27-Nov-2018 17:43:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

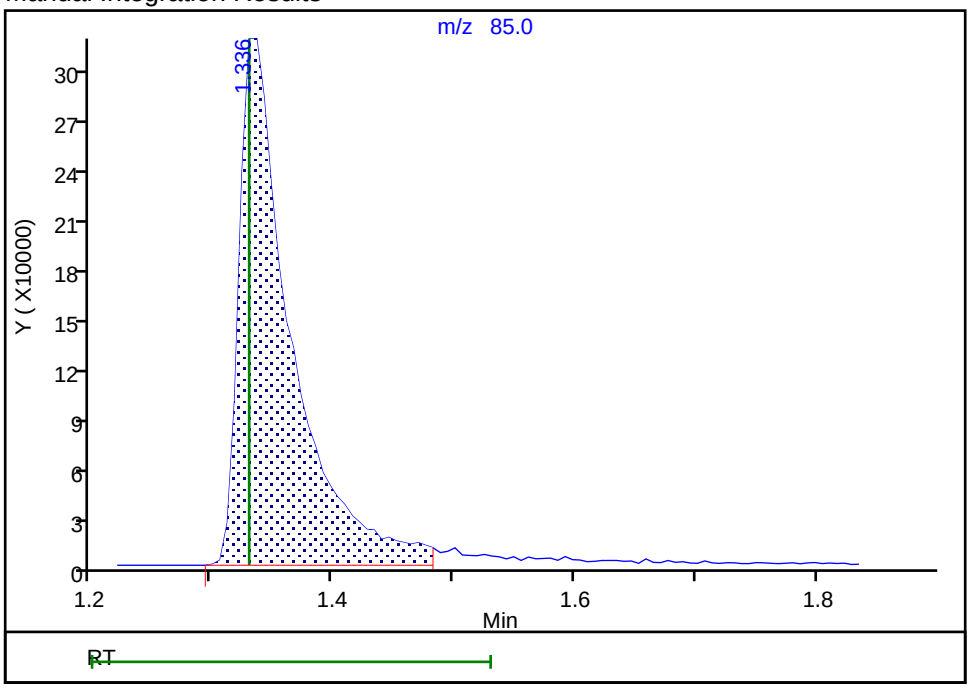
Processing Integration Results

RT: 1.34
Area: 975185
Amount: 105.5257
Amount Units: ug/L



Manual Integration Results

RT: 1.34
Area: 941401
Amount: 109.7350
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:59:40
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

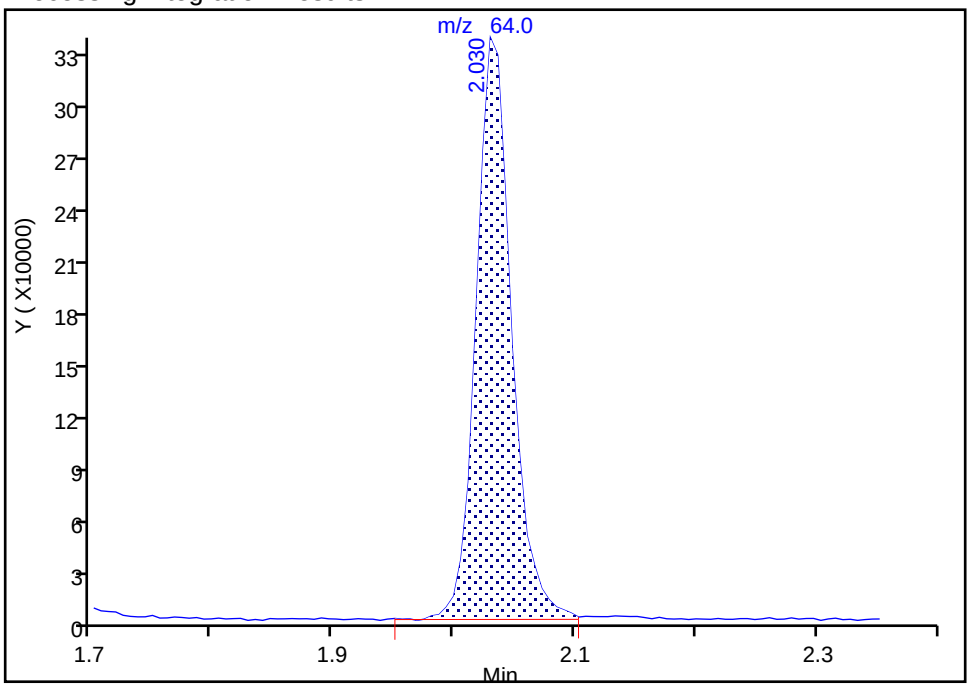
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6204.D
Injection Date: 27-Nov-2018 17:43:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

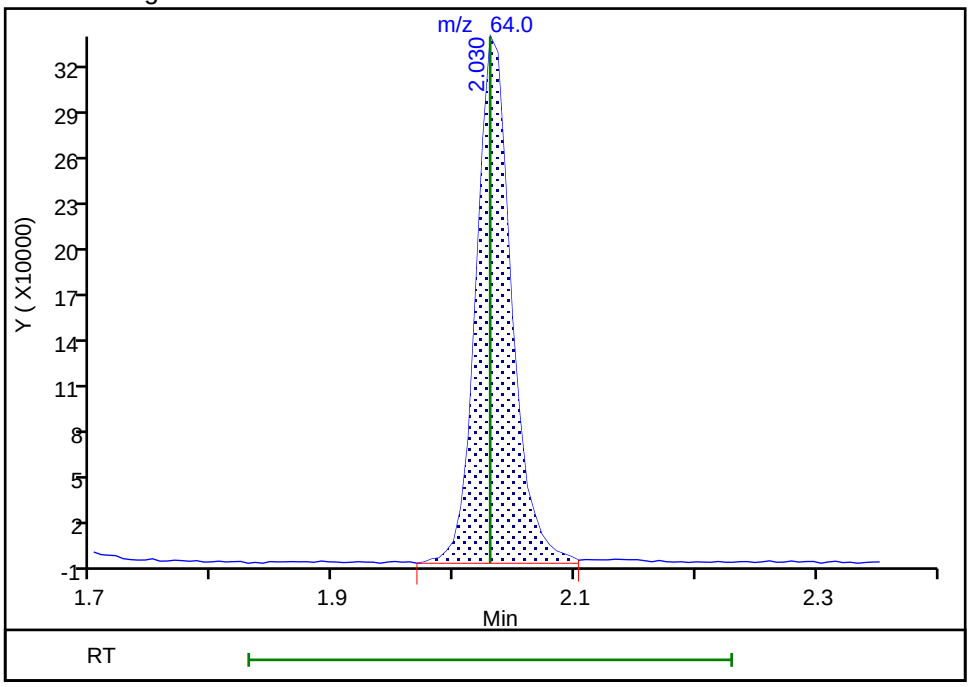
Processing Integration Results

RT: 2.03
Area: 676062
Amount: 79.488122
Amount Units: ug/L



Manual Integration Results

RT: 2.03
Area: 680152
Amount: 104.5248
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 22:04:41
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

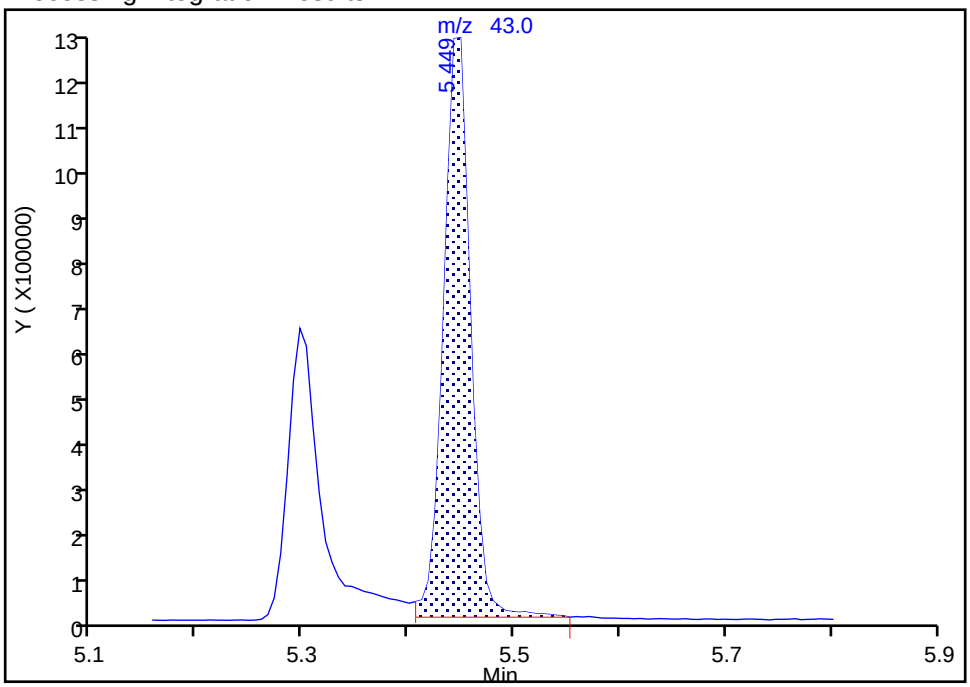
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6204.D
Injection Date: 27-Nov-2018 17:43:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

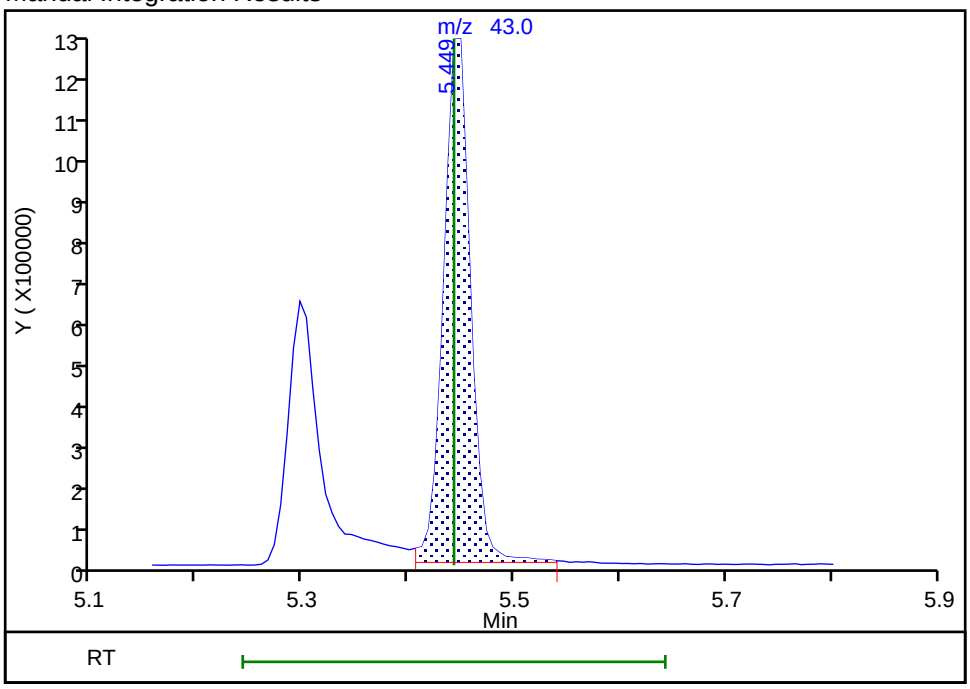
Processing Integration Results

RT: 5.45
Area: 2262270
Amount: 114.6867
Amount Units: ug/L



Manual Integration Results

RT: 5.45
Area: 2261957
Amount: 114.6731
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 22:02:24
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

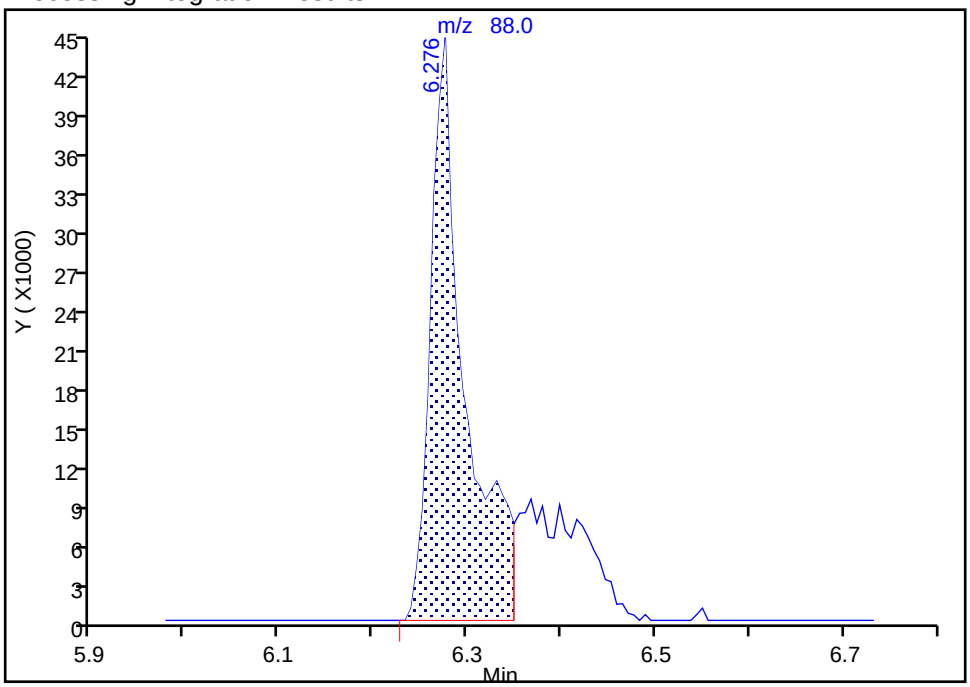
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6204.D
Injection Date: 27-Nov-2018 17:43:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

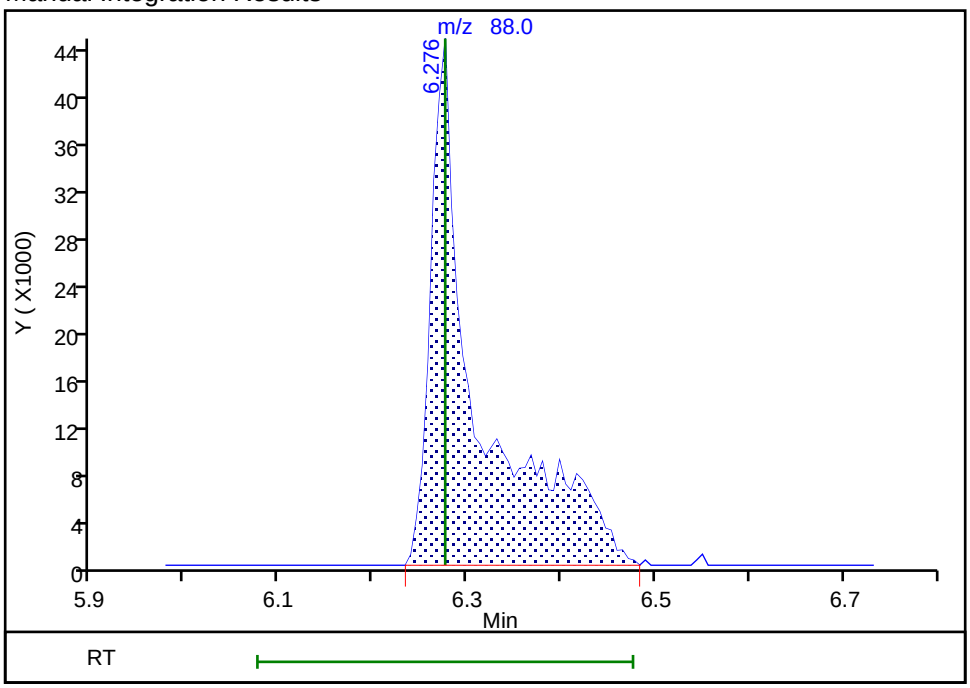
Processing Integration Results

RT: 6.28
Area: 112535
Amount: 1994.8606
Amount Units: ug/L



Manual Integration Results

RT: 6.28
Area: 155125
Amount: 1989.0529
Amount Units: ug/L



Reviewer: baroner, 27-Nov-2018 21:39:21
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.: 480-146076-1 Analy Batch No.: 447085

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2018 14:22 Calibration End Date: 11/23/2018 17:06 Calibration ID: 35427

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-447085/7	P38544.D
Level 2	IC 480-447085/8	P38545.D
Level 3	IC 480-447085/9	P38546.D
Level 4	IC 480-447085/10	P38547.D
Level 5	ICIS 480-447085/11	P38548.D
Level 6	IC 480-447085/12	P38549.D
Level 7	IC 480-447085/13	P38550.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.7541 1.7929	1.9270 1.8027	1.8367	1.8496	1.7225	Ave		1.8122			0.1000	3.7		20.0			
Chloromethane	3.0208 2.5542	3.5365 2.5235	2.9983	2.8668	2.6271	Ave		2.8753			0.1000	12.4		20.0			
Vinyl chloride	2.3890 2.3059	2.7403 2.3106	2.5186	2.4899	2.3117	Ave		2.4380			0.1000	6.5		20.0			
Butadiene	2.5945 2.0639	3.0411 2.0487	2.3933	2.2820	1.9935	Ave		2.3453				16.0		20.0			
Bromomethane	+++++ 1.5418	2.1098 1.5216	1.6630	1.7569	1.6412	Ave		1.7057			0.1000	12.6		20.0			
Chloroethane	1.0930 1.2138	1.4562 1.2518	1.4008	1.3535	1.3569	Ave		1.3037			0.1000	9.6		20.0			
Dichlorofluoromethane	3.2382 3.0528	3.7246 3.0861	3.4955	3.3581	3.1606	Ave		3.3023				7.3		20.0			
Trichlorofluoromethane	2.6174 2.6637	2.7490 2.7074	2.7198	2.7294	2.7197	Ave		2.7009			0.1000	1.7		20.0			
Ethyl ether	1.2176 1.2659	1.3684 1.2934	1.3685	1.4250	1.3604	Ave		1.3285				5.4		20.0			
Acrolein	0.3420 0.3040	0.3146 0.3033	0.3256	0.3393	0.3229	Ave		0.3217				4.8		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.3618	1.2618 1.4086	1.2903	1.4171	1.3268	Ave		1.3444			0.1000	4.7		20.0			
1,1-Dichloroethene	1.5963 1.3309	1.7228 1.4837	1.6175	1.5154	1.3873	Ave		1.5220			0.1000	8.9		20.0			
Acetone	0.9597 0.7799	0.9387 0.7393	0.8269	0.8135	0.8469	Ave		0.8436			0.1000	9.5		20.0			
Iodomethane	2.5926 2.8476	2.5040 2.9709	2.7937	3.0061	2.8756	Ave		2.7986				6.7		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.: 480-146076-1 Analy Batch No.: 447085

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2018 14:22 Calibration End Date: 11/23/2018 17:06 Calibration ID: 35427

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	4.0594 4.2797	4.2427 4.0686	4.4775	4.4324	4.2966	Ave		4.2653			0.1000	3.8		20.0			
Methyl acetate	2.0039 1.5040	1.9137 1.4245	1.7511	1.6509	1.6652	Ave		1.7019			0.1000	12.2		20.0			
Allyl chloride	3.0902 2.4756	2.9478 2.5273	2.7078	2.6865	2.5632	Ave		2.7141				8.4		20.0			
Methylene Chloride	4.4017 1.7314	3.2242 1.7258	2.1108	2.1299	1.7173	Lin1	1.4888	1.7177			0.1000				0.9980		0.9900
2-Methyl-2-propanol	0.2760 0.2811	0.2654 0.2757	0.2412	0.2695	0.2844	Ave		0.2705				5.3		20.0			
Methyl tert-butyl ether	4.4781 4.2424	4.1768 4.3141	4.3416	4.6925	4.4319	Ave		4.3825			0.1000	3.9		20.0			
trans-1,2-Dichloroethene	1.8573 1.5198	1.9108 1.5480	1.5796	1.6258	1.5444	Ave		1.6551			0.1000	9.7		20.0			
Acrylonitrile	0.7222 0.6803	0.8110 0.6016	0.7734	0.7659	0.7832	Ave		0.7339				9.9		20.0			
Hexane	2.0704 1.7070	1.8167 1.7762	1.7394	1.7506	1.6898	Ave		1.7929				7.2		20.0			
Vinyl acetate	3.7355 3.6329	3.6753 3.1643	3.7212	4.0685	3.9772	Ave		3.7107				7.8		20.0			
1,1-Dichloroethane	2.7724 2.7723	2.9710 2.8269	2.8775	3.0508	2.8953	Ave		2.8809			0.2000	3.6		20.0			
2-Butanone (MEK)	1.2314 1.0459	1.2532 0.9606	1.1434	1.1760	1.1730	Ave		1.1405			0.1000	9.1		20.0			
2,2-Dichloropropane	1.7000 1.8811	1.9647 2.0697	1.7293	2.0382	1.9028	Ave		1.8980				7.5		20.0			
cis-1,2-Dichloroethene	1.9346 1.7222	1.9964 1.7644	1.8141	1.9398	1.8123	Ave		1.8548			0.1000	5.5		20.0			
Chlorobromomethane	0.9574 0.9306	0.9222 0.9541	0.9379	1.0135	0.9746	Ave		0.9558				3.2		20.0			
Tetrahydrofuran	+++++ 0.6611	0.6744 0.6553	0.7308	0.7307	0.7302	Ave		0.6971				5.3		20.0			
Chloroform	2.4510 2.7304	2.8821 2.7235	2.8528	2.9986	2.8545	Ave		2.7847			0.2000	6.3		20.0			
1,1,1-Trichloroethane	1.9847 2.2685	2.3128 2.3864	2.3605	2.4485	2.2826	Ave		2.2920			0.1000	6.5		20.0			
Cyclohexane	2.1770 2.1693	2.1716 2.2935	2.1561	2.2526	2.1469	Ave		2.1953			0.1000	2.5		20.0			
1,1-Dichloropropene	1.7550 2.0186	2.0859 2.1242	2.0405	2.1222	2.0176	Ave		2.0234				6.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 447085

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2018 14:22 Calibration End Date: 11/23/2018 17:06 Calibration ID: 35427

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	1.7930 2.1598	1.9844 2.3763	2.0371	2.1001	2.1310	Ave		2.0831			0.1000	8.6		20.0			
Isobutyl alcohol	0.1286 0.1247	0.1412 0.1267	0.1266	0.1277	0.1352	Ave		0.1301				4.5		20.0			
Benzene	5.8660 5.6520	6.1097 5.2495	6.0368	6.3383	5.9304	Ave		5.8832			0.5000	6.0		20.0			
1,2-Dichloroethane	2.4209 2.3325	2.3872 2.3651	2.3969	2.5220	2.4447	Ave		2.4099			0.1000	2.5		20.0			
n-Heptane	+++++ 1.3557	1.6368 1.4215	1.3876	1.4151	1.3500	Ave		1.4278				7.5		20.0			
Trichloroethene	1.8926 1.5539	1.6040 1.6069	1.5923	1.7394	1.5960	Ave		1.6550			0.2000	7.2		20.0			
Methylcyclohexane	1.9086 1.9224	1.9600 2.0406	1.9804	2.0146	1.9364	Ave		1.9661			0.1000	2.5		20.0			
1,2-Dichloropropane	1.6033 1.6017	1.7295 1.6121	1.6721	1.6903	1.6765	Ave		1.6551			0.1000	3.0		20.0			
1,4-Dioxane	+++++ 0.0102	0.0059 0.0086	0.0077	0.0082	0.0087	Ave		0.0082				17.2		20.0			
Dibromomethane	1.2543 1.1436	1.1699 1.1789	1.2068	1.2490	1.2139	Ave		1.2023			0.1000	3.4		20.0			
Bromodichloromethane	2.0321 2.1531	1.9793 2.2167	2.0923	2.3549	2.2190	Ave		2.1496			0.2000	5.9		20.0			
2-Chloroethyl vinyl ether	0.5588 0.6150	0.5285 0.7324	0.5100	0.7270	0.6314	Ave		0.6147				14.6		20.0			
cis-1,3-Dichloropropene	2.1550 2.4857	2.3435 2.5232	2.4371	2.7591	2.5788	Ave		2.4689			0.2000	7.7		20.0			
4-Methyl-2-pentanone (MIBK)	1.0745 0.9148	1.0784 0.7289	1.0798	1.1056	1.0786	Ave		1.0086			0.1000	13.8		20.0			
Toluene	1.9002 1.8005	1.9504 1.7906	1.9130	1.9292	1.8929	Ave		1.8824			0.4000	3.3		20.0			
Ethyl methacrylate	1.1380 1.0538	0.9637 1.0572	1.0925	1.1222	1.1263	Ave		1.0791				5.6		20.0			
trans-1,3-Dichloropropene	1.0243 1.1708	0.9679 1.1953	1.0803	1.1915	1.2158	Ave		1.1208			0.1000	8.7		20.0			
1,1,2-Trichloroethane	0.6128 0.6057	0.6078 0.6090	0.6470	0.6322	0.6331	Ave		0.6211			0.1000	2.6		20.0			
Tetrachloroethene	0.6674 0.7938	0.6974 0.8262	0.8129	0.8511	0.8021	Ave		0.7787			0.2000	8.8		20.0			
2-Hexanone	0.8414 0.7303	0.8609 0.6015	0.8376	0.8481	0.8411	Ave		0.7944			0.1000	12.0		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.: 480-146076-1 Analy Batch No.: 447085

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2018 14:22 Calibration End Date: 11/23/2018 17:06 Calibration ID: 35427

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Dichloropropane	1.1243 1.2021	1.1468 1.2078	1.2530	1.2753	1.2860	Ave		1.2136				5.1		20.0			
Dibromochloromethane	0.6910 0.8972	0.7858 0.9342	0.8292	0.8725	0.9032	Ave		0.8447			0.1000	9.9		20.0			
1,2-Dibromoethane	0.8002 0.7860	0.7342 0.7994	0.7697	0.8277	0.8379	Ave		0.7936				4.4		20.0			
Chlorobenzene	2.2506 2.0879	2.1563 2.0087	2.2401	2.2293	2.2273	Ave		2.1715			0.5000	4.3		20.0			
Ethylbenzene	3.4415 3.1748	3.3003 2.8105	3.4932	3.5536	3.4164	Ave		3.3129			0.1000	7.7		20.0			
1,1,1,2-Tetrachloroethane	0.8089 0.8179	0.7062 0.8787	0.7702	0.8247	0.8488	Ave		0.8079				6.9		20.0			
m,p-Xylene	1.1828 1.3245	1.3098 1.3631	1.3488	1.3715	1.3783	Ave		1.3255			0.1000	5.1		20.0			
o-Xylene	1.3697 1.3129	1.2442 1.3595	1.2952	1.3385	1.3661	Ave		1.3266			0.3000	3.5		20.0			
Styrene	2.1029 2.2771	2.0401 2.2324	2.2865	2.3471	2.3654	Ave		2.2359			0.3000	5.5		20.0			
Bromoform	+++++ 0.6169	0.4775 0.6804	0.4895	0.5449	0.6043	Ave		0.5689			0.1000	13.9		20.0			
Isopropylbenzene	3.2610 2.7475	2.9653 2.3911	3.1712	3.1374	2.9800	Ave		2.9505			0.1000	10.1		20.0			
1,1,2,2-Tetrachloroethane	0.8934 0.9424	1.0457 0.8896	1.0468	1.0320	1.0236	Ave		0.9819			0.3000	7.3		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2914	0.2207 0.3278	0.2268	0.2993	0.2870	Ave		0.2755				15.5		20.0			
N-Propylbenzene	3.5684 3.1599	3.6233 2.6058	3.7408	3.7254	3.5433	Ave		3.4238				12.0		20.0			
Bromobenzene	0.8578 0.9220	0.9495 0.9363	0.9823	0.9997	0.9701	Ave		0.9454				5.0		20.0			
1,2,3-Trichloropropane	0.2978 0.2879	0.2814 0.2901	0.2987	0.3079	0.3044	Ave		0.2955				3.2		20.0			
1,3,5-Trimethylbenzene	2.5653 2.3600	2.3509 2.1056	2.5935	2.6051	2.5304	Ave		2.4444				7.5		20.0			
2-Chlorotoluene	0.8915 0.8195	0.7507 0.8347	0.8634	0.8641	0.8523	Ave		0.8395				5.4		20.0			
4-Chlorotoluene	0.7844 0.8554	0.8347 0.8463	0.8572	0.9259	0.8687	Ave		0.8532				4.9		20.0			
tert-Butylbenzene	0.5360 0.5230	0.4552 0.5645	0.5621	0.5410	0.5333	Ave		0.5307				6.9		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.: 480-146076-1 Analy Batch No.: 447085

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2018 14:22 Calibration End Date: 11/23/2018 17:06 Calibration ID: 35427

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.6230 2.4632	2.5447 2.2094	2.7238	2.7479	2.6509	Ave		2.5661				7.2		20.0			
sec-Butylbenzene	3.3270 2.6536	2.7735 2.3413	2.9262	2.8970	2.7996	Ave		2.8169				10.6		20.0			
4-Isopropyltoluene	+++++ 2.3587	2.1905 2.1467	2.4981	2.5016	2.4442	Ave		2.3566				6.6		20.0			
1,3-Dichlorobenzene	1.6154 1.5754	1.5226 1.5199	1.6443	1.7051	1.6710	Ave		1.6077			0.6000	4.5		20.0			
1,4-Dichlorobenzene	1.6876 1.6323	1.6420 1.5435	1.7214	1.7385	1.7219	Ave		1.6696			0.5000	4.1		20.0			
n-Butylbenzene	+++++ 2.0014	2.1153 1.8655	2.1725	2.1808	2.1261	Ave		2.0769				5.9		20.0			
1,2-Dichlorobenzene	1.5297 1.5487	1.5343 1.4894	1.6554	1.6255	1.6268	Ave		1.5728			0.4000	4.0		20.0			
1,2-Dibromo-3-Chloropropane	0.2264 0.1882	0.2591 0.1961	0.1977	0.1990	0.1946	Ave		0.2087			0.0500	12.1		20.0			
1,2,4-Trichlorobenzene	1.1043 1.0212	0.9728 1.0292	1.0910	1.0538	1.0579	Ave		1.0472			0.2000	4.2		20.0			
Hexachlorobutadiene	+++++ 0.3144	0.2895 0.3349	0.3448	0.3160	0.3181	Ave		0.3196				6.0		20.0			
Naphthalene	2.9874 3.0370	3.1691 2.6504	3.1971	3.1474	3.2496	Ave		3.0626				6.6		20.0			
1,2,3-Trichlorobenzene	0.8790 1.0044	1.0681 1.0225	1.0507	1.0012	1.0548	Ave		1.0115				6.3		20.0			
Dibromofluoromethane (Surr)	1.4240 1.4044	1.4532 1.4567	1.4135	1.4680	1.4557	Ave		1.4394				1.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8157 0.8167	0.8359 0.8247	0.8471	0.8550	0.8466	Ave		0.8345				1.9		20.0			
Toluene-d8 (Surr)	2.4535 2.3466	2.3854 2.3938	2.4268	2.3892	2.4370	Ave		2.4046				1.5		20.0			
4-Bromofluorobenzene (Surr)	0.7848 0.7751	0.7627 0.8140	0.7835	0.7821	0.7975	Ave		0.7857				2.1		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.: 480-146076-1 Analy Batch No.: 447085

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2018 14:22 Calibration End Date: 11/23/2018 17:06 Calibration ID: 35427

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-447085/7	P38544.D
Level 2	IC 480-447085/8	P38545.D
Level 3	IC 480-447085/9	P38546.D
Level 4	IC 480-447085/10	P38547.D
Level 5	ICIS 480-447085/11	P38548.D
Level 6	IC 480-447085/12	P38549.D
Level 7	IC 480-447085/13	P38550.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	6222 691865	13392 1464773	65069	129512	321153	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloromethane	FB	Ave	10715 985644	24577 2050446	106221	200740	489797	0.500 50.0	1.00 100	5.00	10.0	25.0
Vinyl chloride	FB	Ave	8474 889814	19044 1877501	89225	174351	430997	0.500 50.0	1.00 100	5.00	10.0	25.0
Butadiene	FB	Ave	9203 796453	21134 1664702	84787	159793	371679	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromomethane	FB	Ave	+++++ 594953	14662 1236373	58916	123024	305985	+++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroethane	FB	Ave	3877 468375	10120 1017134	49625	94774	252982	0.500 50.0	1.00 100	5.00	10.0	25.0
Dichlorofluoromethane	FB	Ave	11486 1178062	25884 2507572	123833	235141	589272	0.500 50.0	1.00 100	5.00	10.0	25.0
Trichlorofluoromethane	FB	Ave	9284 1027912	19104 2199922	96355	191117	507074	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl ether	FB	Ave	4319 488485	9510 1050960	48482	99784	253635	0.500 50.0	1.00 100	5.00	10.0	25.0
Acrolein	FB	Ave	6065 586548	10932 1232106	57668	118802	301049	2.50 250	5.00 500	25.0	50.0	125
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 525518	8769 1144527	45711	99227	247371	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethene	FB	Ave	5662 513572	11973 1205602	57302	106115	258647	0.500 50.0	1.00 100	5.00	10.0	25.0
Acetone	FB	Ave	17020 1504722	32618 3003547	146478	284832	789487	2.50 250	5.00 500	25.0	50.0	125
Iodomethane	FB	Ave	9196 1098867	17402 2413970	98971	210493	536134	0.500 50.0	1.00 100	5.00	10.0	25.0
Carbon disulfide	FB	Ave	14399 1651511	29485 3305936	158623	310366	801074	0.500 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 447085

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2018 14:22 Calibration End Date: 11/23/2018 17:06 Calibration ID: 35427

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	14216 1160749	26599 2314946	124072	231203	620912	1.00 100	2.00 200	10.0	20.0	50.0
Allyl chloride	FB	Ave	10961 955292	20486 2053531	95930	188117	477892	0.500 50.0	1.00 100	5.00	10.0	25.0
Methylene Chloride	FB	Lin1	15613 668116	22407 1402300	74780	149141	320175	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Methyl-2-propanol	FB	Ave	9789 1084750	18445 2240444	85441	188696	530257	5.00 500	10.0 1000	50.0	100	250
Methyl tert-butyl ether	FB	Ave	15884 1637094	29027 3505402	153809	328583	826301	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,2-Dichloroethene	FB	Ave	6588 586459	13279 1257793	55961	113844	287939	0.500 50.0	1.00 100	5.00	10.0	25.0
Acrylonitrile	FB	Ave	25617 2625047	56360 4888483	273976	536301	1460249	5.00 500	10.0 1000	50.0	100	250
Hexane	FB	Ave	7344 658706	12625 1443219	61620	122580	315057	0.500 50.0	1.00 100	5.00	10.0	25.0
Vinyl acetate	FB	Ave	26500 2803761	51083 5142279	263663	569771	1483048	1.00 100	2.00 200	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	9834 1069814	20647 2297014	101940	213627	539811	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Butanone (MEK)	FB	Ave	21840 2018022	43547 3902561	202541	411734	1093517	2.50 250	5.00 500	25.0	50.0	125
2,2-Dichloropropane	FB	Ave	6030 725907	13654 1681691	61263	142722	354754	0.500 50.0	1.00 100	5.00	10.0	25.0
cis-1,2-Dichloroethene	FB	Ave	6862 664580	13874 1433691	64268	135829	337890	0.500 50.0	1.00 100	5.00	10.0	25.0
Chlorobromomethane	FB	Ave	3396 359102	6409 775276	33228	70971	181703	0.500 50.0	1.00 100	5.00	10.0	25.0
Tetrahydrofuran	FB	Ave	+++++ 510256	9373 1064944	51780	102324	272286	+++++ 100	2.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	8694 1053628	20029 2213004	101067	209968	532191	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,1-Trichloroethane	FB	Ave	7040 875397	16073 1939073	83624	171450	425569	0.500 50.0	1.00 100	5.00	10.0	25.0
Cyclohexane	FB	Ave	7722 837108	15092 1863583	76382	157731	400267	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloropropene	FB	Ave	6225 778960	14496 1726052	72287	148599	376162	0.500 50.0	1.00 100	5.00	10.0	25.0
Carbon tetrachloride	FB	Ave	6360 833443	13791 1930869	72168	147054	397311	0.500 50.0	1.00 100	5.00	10.0	25.0
Isobutyl alcohol	FB	Ave	11408 1203160	24525 2573232	112108	223548	630239	12.5 1250	25.0 2500	125	250	625

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 447085

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2018 14:22 Calibration End Date: 11/23/2018 17:06 Calibration ID: 35427

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	20807 2181051	42460 4265474	213866	443821	1105675	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloroethane	FB	Ave	8587 900071	16590 1921717	84913	176598	455797	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Heptane	FB	Ave	+++++ 523165	11375 1154999	49159	99088	251699	+++++ 50.0	1.00 100	5.00	10.0	25.0
Trichloroethene	FB	Ave	6713 599647	11147 1305659	56410	121796	297558	0.500 50.0	1.00 100	5.00	10.0	25.0
Methylcyclohexane	FB	Ave	6770 741818	13621 1658077	70160	141064	361018	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloropropane	FB	Ave	5687 618072	12019 1309943	59236	118356	312563	0.500 50.0	1.00 100	5.00	10.0	25.0
1,4-Dioxane	CBNZ d5	Ave	+++++ 161732	1717 289080	11017	24001	66017	+++++ 1000	20.0 2000	100	200	500
Dibromomethane	FB	Ave	4449 441306	8130 957887	42752	87459	226325	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromodichloromethane	FB	Ave	7208 830864	13755 1801189	74123	164899	413722	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chloroethyl vinyl ether	FB	Ave	1982 237333	3673 595142	18068	50906	117721	0.500 50.0	1.00 100	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	7644 959199	16286 2050259	86340	193197	480801	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	38436 3628187	78272 6120918	388635	808884	2044110	2.50 250	5.00 500	25.0	50.0	125
Toluene	CBNZ d5	Ave	13595 1428261	28311 3007318	137701	282296	717465	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl methacrylate	CBNZ d5	Ave	8142 835960	13989 1775617	78640	164207	426904	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	7328 928736	14050 2007463	77760	174348	460850	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloroethane	CBNZ d5	Ave	4384 480492	8822 1022863	46571	92503	239978	0.500 50.0	1.00 100	5.00	10.0	25.0
Tetrachloroethene	CBNZ d5	Ave	4775 629692	10124 1387542	58512	124535	304037	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Hexanone	CBNZ d5	Ave	30100 2896760	62484 5051125	301476	620467	1594118	2.50 250	5.00 500	25.0	50.0	125
1,3-Dichloropropane	CBNZ d5	Ave	8044 953576	16646 2028471	90193	186616	487445	0.500 50.0	1.00 100	5.00	10.0	25.0
Dibromochloromethane	CBNZ d5	Ave	4944 711674	11407 1568925	59686	127664	342362	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromoethane	CBNZ d5	Ave	5725 623502	10658 1342527	55408	121119	317595	0.500 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 447085

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2018 14:22 Calibration End Date: 11/23/2018 17:06 Calibration ID: 35427

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	16102 1656263	31301 3373620	161249	326208	844215	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethylbenzene	CBNZ d5	Ave	24622 2518459	47907 4720236	251453	519980	1294943	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	5787 648784	10251 1475729	55438	120679	321715	0.500 50.0	1.00 100	5.00	10.0	25.0
m,p-Xylene	CBNZ d5	Ave	8462 1050676	19013 2289220	97093	200685	522420	0.500 50.0	1.00 100	5.00	10.0	25.0
o-Xylene	CBNZ d5	Ave	9799 1041467	18061 2283267	93231	195855	517814	0.500 50.0	1.00 100	5.00	10.0	25.0
Styrene	CBNZ d5	Ave	15045 1806317	29614 3749263	164588	343442	896565	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromoform	CBNZ d5	Ave	+++++ 489323	6932 1142687	35233	79727	229041	+++++ 50.0	1.00 100	5.00	10.0	25.0
Isopropylbenzene	DCBd 4	Ave	23722 2361547	43096 4543874	230315	469090	1208863	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6499 810000	15198 1690477	76027	154299	415234	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 250470	3207 622918	16471	44754	116444	+++++ 50.0	1.00 100	5.00	10.0	25.0
N-Propylbenzene	DCBd 4	Ave	25958 2715990	52659 4951768	271680	557002	1437408	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromobenzene	DCBd 4	Ave	6240 792459	13800 1779264	71339	149475	393521	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichloropropane	DCBd 4	Ave	2166 247445	4089 551329	21697	46037	123502	0.500 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	18661 2028502	34167 4001281	188355	389498	1026508	0.500 50.0	1.00 100	5.00	10.0	25.0
2-Chlorotoluene	DCBd 4	Ave	6485 704404	10911 1586131	62703	129191	345738	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Chlorotoluene	DCBd 4	Ave	5706 735201	12131 1608134	62252	138430	352416	0.500 50.0	1.00 100	5.00	10.0	25.0
tert-Butylbenzene	DCBd 4	Ave	3899 449533	6615 1072688	40821	80887	216340	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	19081 2117173	36984 4198524	197821	410854	1075377	0.500 50.0	1.00 100	5.00	10.0	25.0
sec-Butylbenzene	DCBd 4	Ave	24202 2280832	40308 4449223	212522	433133	1135710	0.500 50.0	1.00 100	5.00	10.0	25.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 2027393	31836 4079266	181430	374016	991518	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichlorobenzene	DCBd 4	Ave	11751 1354109	22128 2888242	119416	254930	677869	0.500 50.0	1.00 100	5.00	10.0	25.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 447085

SDG No.:

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2018 14:22 Calibration End Date: 11/23/2018 17:06 Calibration ID: 35427

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	12276 1403031	23864 2933127	125021	259930	698517	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Butylbenzene	DCBd 4	Ave	+++++ 1720232	30743 3544901	157781	326064	862471	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichlorobenzene	DCBd 4	Ave	11128 1331131	22298 2830381	120224	243034	659948	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1647 161772	3765 372682	14357	29755	78922	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	8033 877775	14138 1955795	79232	157564	429171	0.500 50.0	1.00 100	5.00	10.0	25.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 270215	4208 636470	25043	47248	129043	+++++ 50.0	1.00 100	5.00	10.0	25.0
Naphthalene	DCBd 4	Ave	21732 2610340	46058 5036484	232190	470583	1318234	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	6394 863274	15523 1943067	76311	149690	427876	0.500 50.0	1.00 100	5.00	10.0	25.0
Dibromofluoromethane (Surr)	FB	Ave	252557 270980	252485 295910	250387	256977	271411	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	144662 157576	145230 167519	150057	149672	157834	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	877671 930731	865664 1005069	873433	874002	923696	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	280743 307412	276782 341795	281997	286117	302267	25.0 25.0	25.0 25.0	25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

Report Date: 25-Nov-2018 11:16:38 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Nov-2018 14:22:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0076682-007
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Nov-2018 11:16:37 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: milligana Date: 24-Nov-2018 14:30:09

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	10.336	10.336	0.000	98	177353	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.284	14.284	0.000	87	357719	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.247	0.000	95	363722	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.533	0.006	92	252557	25.0	24.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.989	0.000	0	144662	25.0	24.4	
$ 5 Toluene-d8 (Surr)	98	12.319	12.319	0.000	94	877671	25.0	25.5	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	94	280743	25.0	25.0	
10 Dichlorodifluoromethane	85	4.247	4.252	-0.005	42	6222	0.5000	0.4840	Ma
11 Chloromethane	50	4.685	4.672	0.013	42	10715	0.5000	0.5253	
17 Vinyl chloride	62	4.855	4.855	0.000	32	8474	0.5000	0.4900	
144 Butadiene	54	4.904	4.897	0.007	95	9203	0.5000	0.5531	
12 Bromomethane	94	5.469	5.481	-0.012	22	8046	0.5000	0.6649	
13 Chloroethane	64	5.597	5.615	-0.018	12	3877	0.5000	0.4192	
19 Dichlorofluoromethane	67	5.901	5.895	0.006	28	11486	0.5000	0.4903	
14 Trichlorofluoromethane	101	5.962	5.962	0.000	67	9284	0.5000	0.4845	
20 Ethyl ether	59	6.315	6.315	0.000	66	4319	0.5000	0.4583	
22 Acrolein	56	6.637	6.619	0.018	94	6065	2.50	2.66	a
16 1,1,2-Trichloro-1,2,2-trif	101	6.619	6.637	-0.018	66	2832	0.5000	0.2969	
25 1,1-Dichloroethene	96	6.741	6.728	0.013	77	5662	0.5000	0.5244	
24 Acetone	43	6.802	6.807	-0.005	98	17020	2.50	2.84	
18 Iodomethane	142	7.027	7.020	0.007	83	9196	0.5000	0.4632	a
27 Carbon disulfide	76	7.112	7.118	-0.006	99	14399	0.5000	0.4759	M
30 Methyl acetate	43	7.167	7.172	-0.005	81	14216	1.00	1.18	a
28 3-Chloro-1-propene	41	7.197	7.197	0.000	82	10961	0.5000	0.5693	
31 Methylene Chloride	84	7.392	7.385	0.007	97	15613	0.5000	0.4145	
33 2-Methyl-2-propanol	59	7.404	7.422	-0.018	44	9789	5.00	5.10	
32 Methyl tert-butyl ether	73	7.605	7.598	0.007	97	15884	0.5000	0.5109	
35 trans-1,2-Dichloroethene	96	7.690	7.696	-0.006	94	6588	0.5000	0.5611	
34 Acrylonitrile	53	7.720	7.726	-0.006	92	25617	5.00	4.92	
36 Hexane	57	7.903	7.896	0.007	94	7344	0.5000	0.5774	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.189	8.195	-0.006	97	26500	1.00	1.01	
40 1,1-Dichloroethane	63	8.243	8.249	-0.006	94	9834	0.5000	0.4812	
44 2-Butanone (MEK)	43	8.919	8.931	-0.012	98	21840	2.50	2.70	
45 2,2-Dichloropropane	77	8.943	8.937	0.006	59	6030	0.5000	0.4478	
43 cis-1,2-Dichloroethene	96	8.955	8.961	-0.006	83	6862	0.5000	0.5215	
50 Chlorobromomethane	128	9.290	9.290	0.000	57	3396	0.5000	0.5009	
51 Tetrahydrofuran	42	9.314	9.302	0.012	87	6955	1.00	1.41	a
49 Chloroform	83	9.314	9.320	-0.006	90	8694	0.5000	0.4401	a
52 1,1,1-Trichloroethane	97	9.551	9.557	-0.006	35	7040	0.5000	0.4330	a
54 Cyclohexane	56	9.594	9.600	-0.006	67	7722	0.5000	0.4958	
56 1,1-Dichloropropene	75	9.728	9.734	-0.006	73	6225	0.5000	0.4337	
55 Carbon tetrachloride	117	9.740	9.746	-0.006	80	6360	0.5000	0.4304	a
53 Isobutyl alcohol	43	9.752	9.758	-0.006	80	11408	12.5	12.4	
57 Benzene	78	10.026	10.032	-0.006	91	20807	0.5000	0.4985	
60 1,2-Dichloroethane	62	10.081	10.087	-0.006	91	8587	0.5000	0.5023	
59 n-Heptane	43	10.087	10.093	-0.006	91	9498	0.5000	0.9377	
62 Trichloroethene	95	10.786	10.786	0.000	92	6713	0.5000	0.5718	
64 Methylcyclohexane	83	10.987	10.981	0.006	93	6770	0.5000	0.4854	a
63 1,2-Dichloropropane	63	11.121	11.121	0.000	88	5687	0.5000	0.4844	a
68 1,4-Dioxane	88	11.224	11.255	-0.031	0	641	10.0	5.45	M
69 Dibromomethane	93	11.334	11.328	0.006	91	4449	0.5000	0.5216	
70 Dichlorobromomethane	83	11.462	11.455	0.007	96	7208	0.5000	0.4727	
71 2-Chloroethyl vinyl ether	63	11.717	11.711	0.006	13	1982	0.5000	0.4545	a
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	86	7644	0.5000	0.4364	
75 4-Methyl-2-pentanone (MIBK	43	12.094	12.094	0.000	98	38436	2.50	2.66	
76 Toluene	92	12.417	12.417	0.000	97	13595	0.5000	0.5047	
77 Ethyl methacrylate	69	12.636	12.636	0.000	85	8142	0.5000	0.5273	
78 trans-1,3-Dichloropropene	75	12.703	12.702	0.001	91	7328	0.5000	0.4569	
79 1,1,2-Trichloroethane	83	12.995	12.994	0.001	87	4384	0.5000	0.4933	
80 Tetrachloroethene	166	13.147	13.140	0.007	90	4775	0.5000	0.4285	
83 2-Hexanone	43	13.183	13.183	0.000	97	30100	2.50	2.65	
82 1,3-Dichloropropane	76	13.232	13.226	0.006	88	8044	0.5000	0.4632	
81 Chlorodibromomethane	129	13.567	13.566	0.001	87	4944	0.5000	0.4090	
85 Ethylene Dibromide	107	13.761	13.767	-0.006	96	5725	0.5000	0.5042	
87 Chlorobenzene	112	14.327	14.327	0.000	92	16102	0.5000	0.5182	
89 Ethylbenzene	91	14.364	14.369	-0.005	96	24622	0.5000	0.5194	
88 1,1,1,2-Tetrachloroethane	131	14.394	14.406	-0.012	39	5787	0.5000	0.5006	
90 m-Xylene & p-Xylene	106	14.510	14.503	0.007	0	8462	0.5000	0.4461	
93 o-Xylene	106	15.057	15.057	0.000	95	9799	0.5000	0.5162	
94 Styrene	104	15.088	15.081	0.007	95	15045	0.5000	0.4703	
92 Bromoform	173	15.459	15.464	-0.005	38	2926	0.5000	0.3595	
95 Isopropylbenzene	105	15.483	15.483	0.000	95	23722	0.5000	0.5526	
97 1,1,2,2-Tetrachloroethane	83	15.951	15.957	-0.006	92	6499	0.5000	0.4549	
98 trans-1,4-Dichloro-2-buten	53	16.000	16.006	-0.006	40	1259	0.5000	0.3141	
99 N-Propylbenzene	91	16.012	16.012	0.000	98	25958	0.5000	0.5211	
100 Bromobenzene	156	16.030	16.030	0.000	86	6240	0.5000	0.4537	
101 1,2,3-Trichloropropane	110	16.043	16.048	-0.005	77	2166	0.5000	0.5039	
102 1,3,5-Trimethylbenzene	105	16.201	16.201	0.000	93	18661	0.5000	0.5247	
103 2-Chlorotoluene	126	16.219	16.219	0.000	91	6485	0.5000	0.5310	
105 4-Chlorotoluene	126	16.341	16.347	-0.006	96	5706	0.5000	0.4597	
106 tert-Butylbenzene	134	16.639	16.639	0.000	93	3899	0.5000	0.5050	
107 1,2,4-Trimethylbenzene	105	16.700	16.699	0.001	97	19081	0.5000	0.5111	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.906	16.906	0.000	94	24202	0.5000	0.5905	
112 4-Isopropyltoluene	119	17.059	17.052	0.007	96	21935	0.5000	0.6398	
110 1,3-Dichlorobenzene	146	17.174	17.174	0.000	94	11751	0.5000	0.5024	
111 1,4-Dichlorobenzene	146	17.278	17.277	0.001	90	12276	0.5000	0.5054	a
115 n-Butylbenzene	91	17.570	17.569	0.001	96	20626	0.5000	0.6826	
116 1,2-Dichlorobenzene	146	17.764	17.770	-0.006	95	11128	0.5000	0.4863	
117 1,2-Dibromo-3-Chloropropan	75	18.792	18.804	-0.012	1	1647	0.5000	0.5424	
119 1,2,4-Trichlorobenzene	180	19.906	19.905	0.001	93	8033	0.5000	0.5273	
120 Hexachlorobutadiene	225	20.027	20.027	0.000	85	4954	0.5000	1.07	
121 Naphthalene	128	20.350	20.343	0.007	96	21732	0.5000	0.4877	
122 1,2,3-Trichlorobenzene	180	20.721	20.721	0.000	91	6394	0.5000	0.4345	
S 126 Xylenes, Total	1				0			0.9624	
S 123 1,2-Dichloroethene, Total	1				0			1.08	
S 124 1,3-Dichloropropene, Total	1				0			0.8934	
S 125 Total BTEX	1				0			2.49	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00140	Amount Added:	0.50	Units: uL	
GAS CORP mix_00313	Amount Added:	0.50	Units: uL	
P 8260 IS_00340	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00313	Amount Added:	1.25	Units: uL	Run Reagent

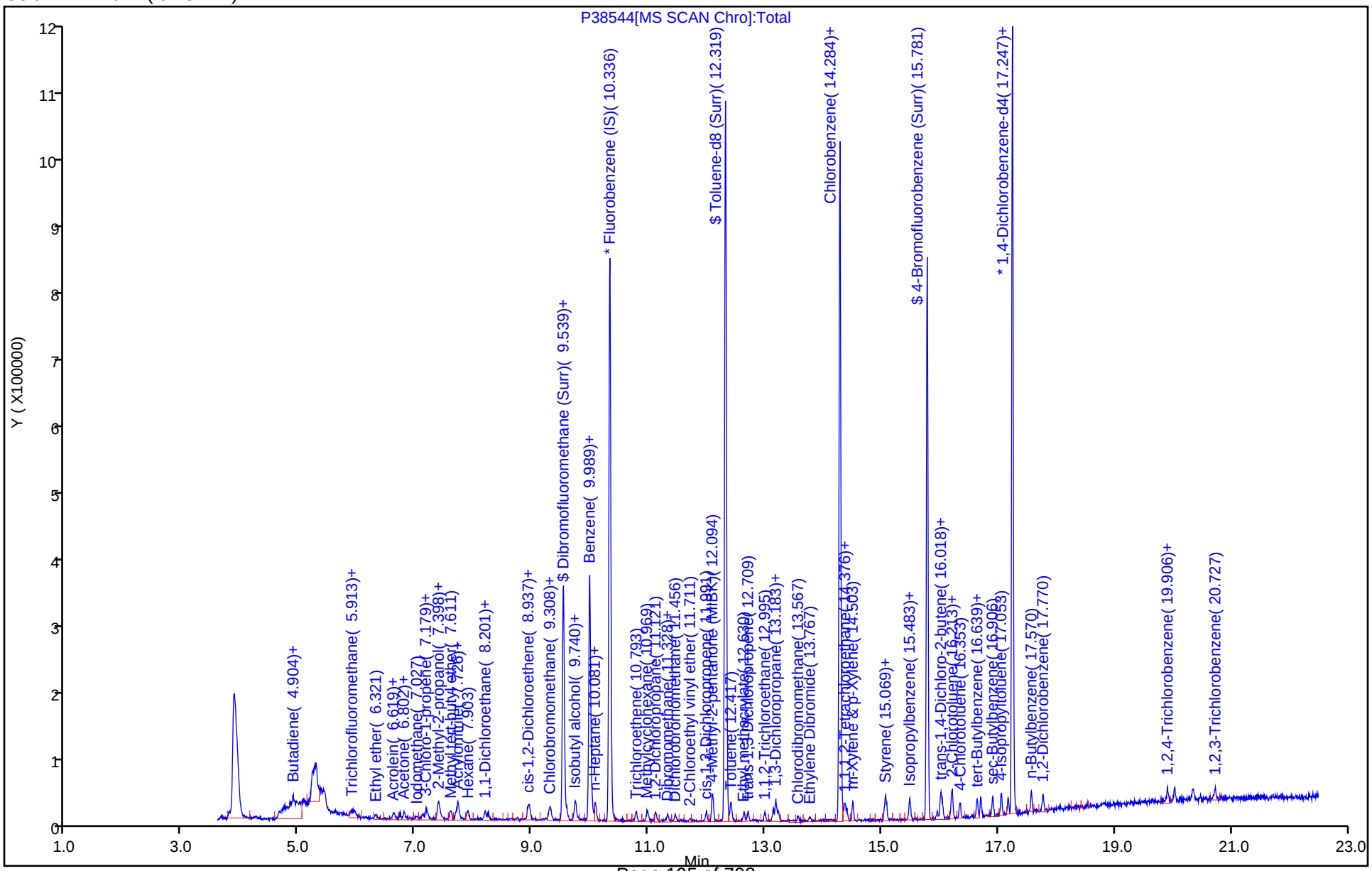
Report Date: 25-Nov-2018 11:16:38 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D

Injection Date:	23-Nov-2018 14:22:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

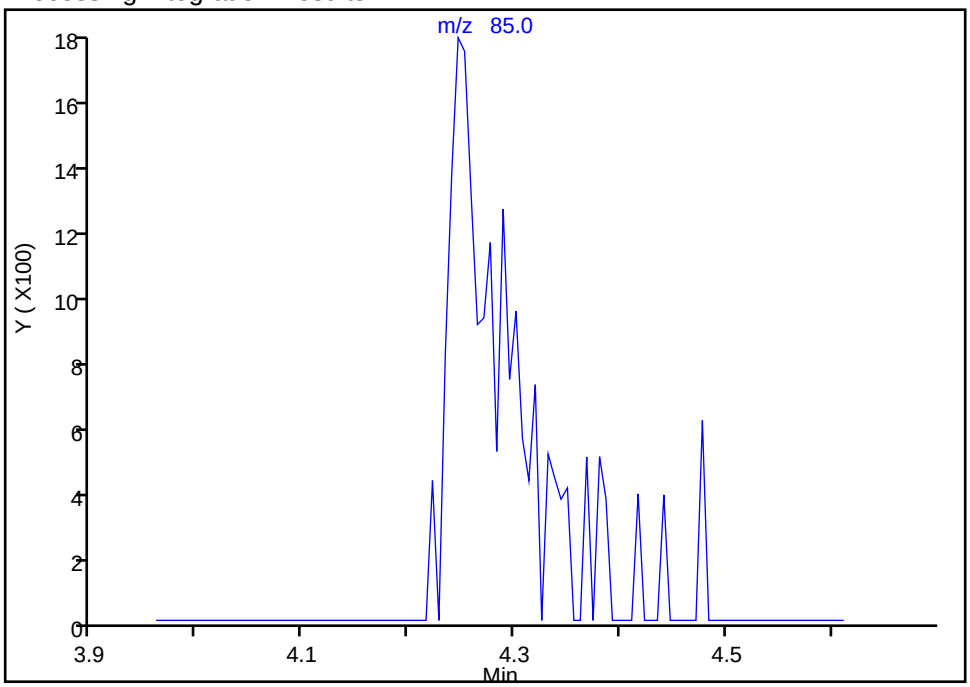
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

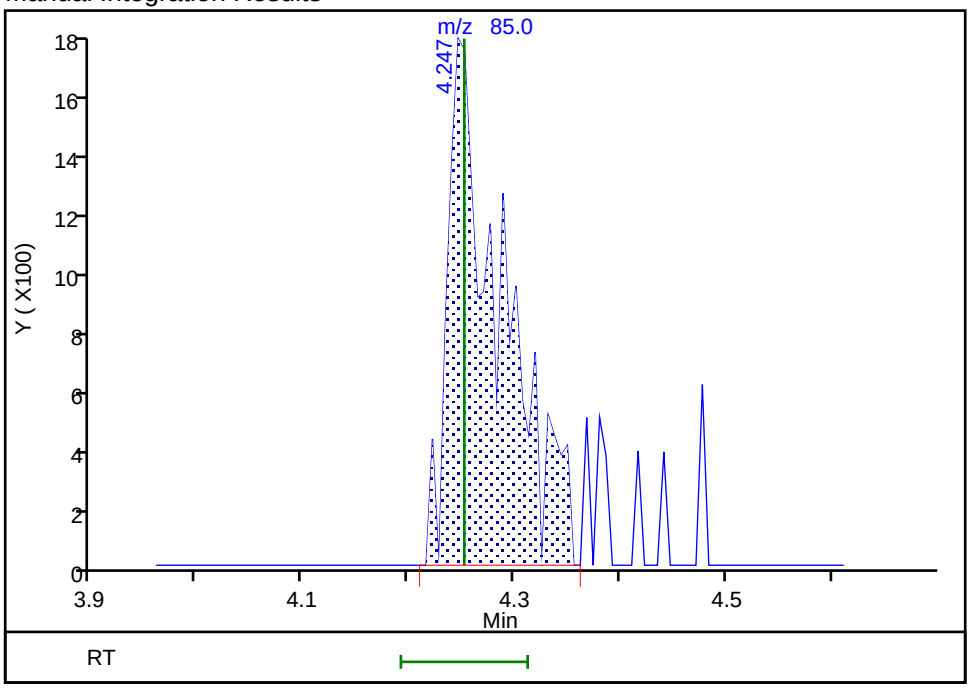
Not Detected
Expected RT: 4.25

Processing Integration Results



Manual Integration Results

RT: 4.25
Area: 6222
Amount: 0.483971
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:27:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

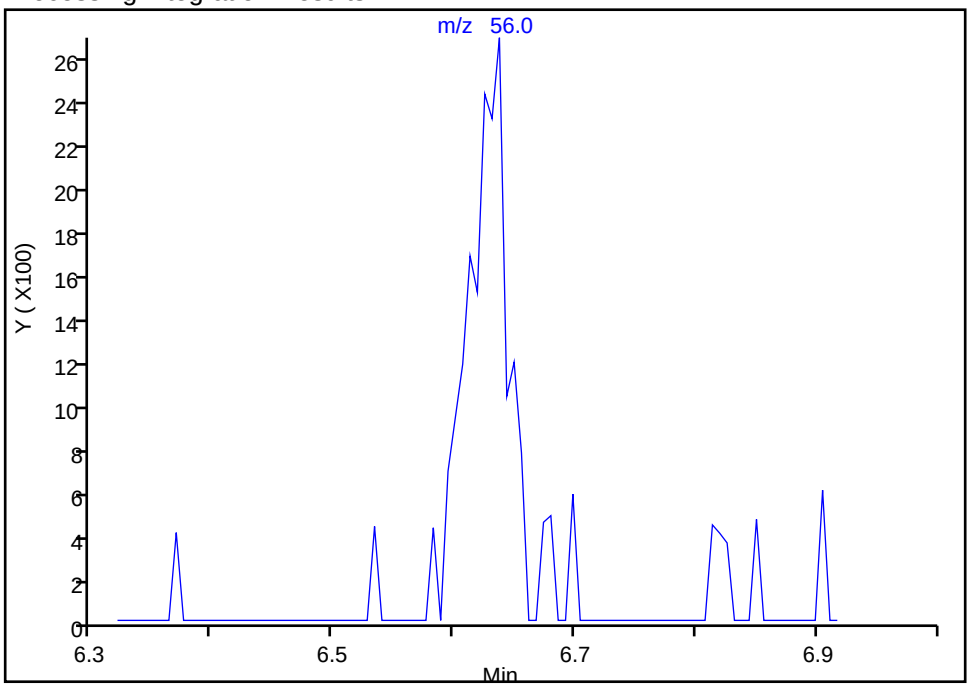
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

22 Acrolein, CAS: 107-02-8

Signal: 1

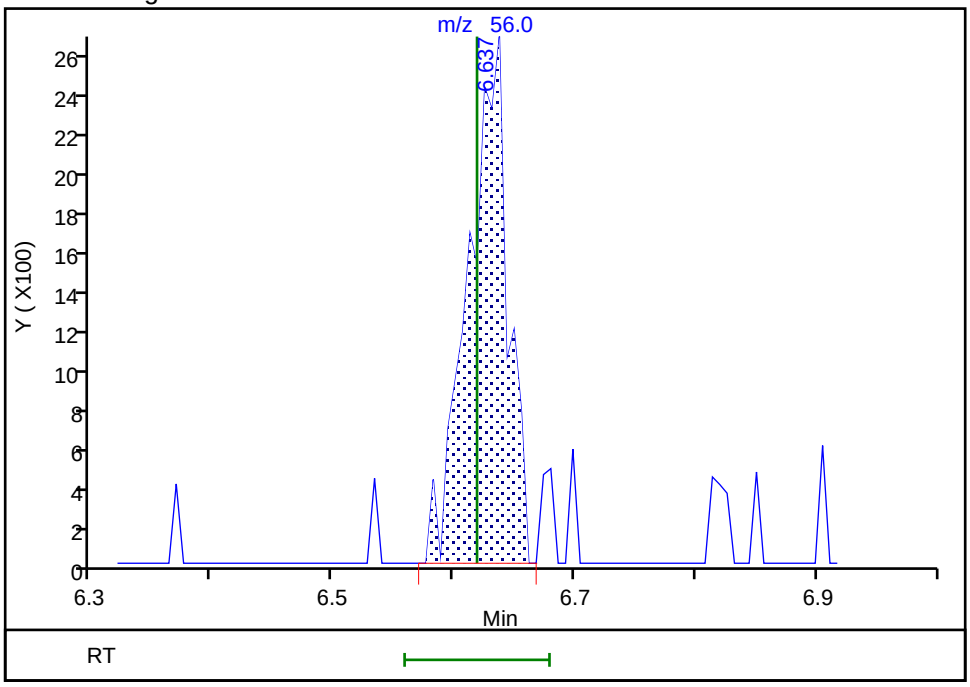
Not Detected
Expected RT: 6.62

Processing Integration Results



Manual Integration Results

RT: 6.64
Area: 6065
Amount: 2.657810
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:29:19
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

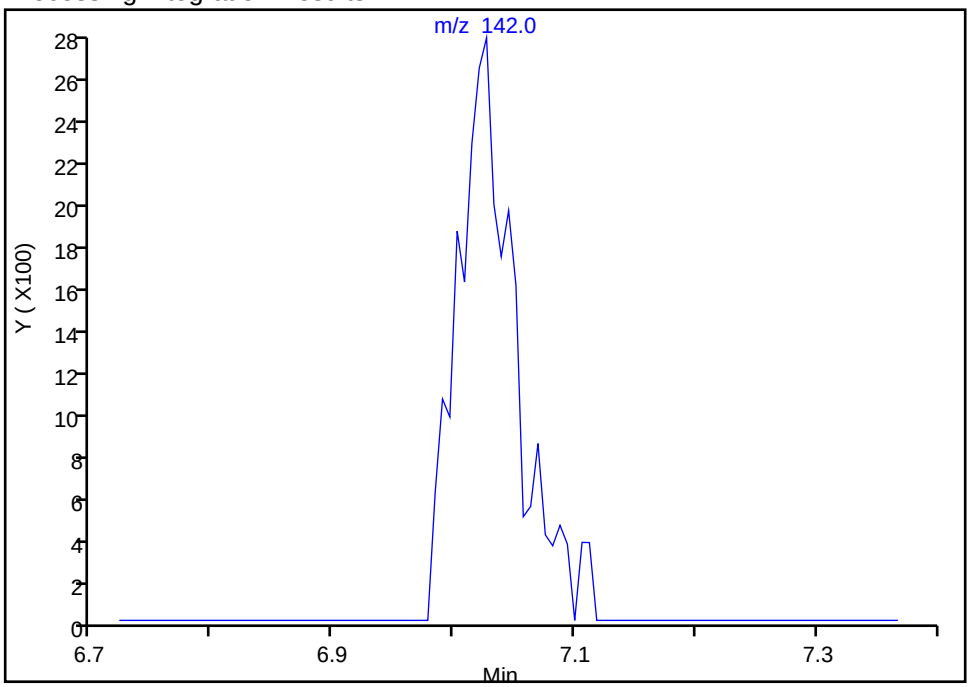
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

18 Iodomethane, CAS: 74-88-4

Signal: 1

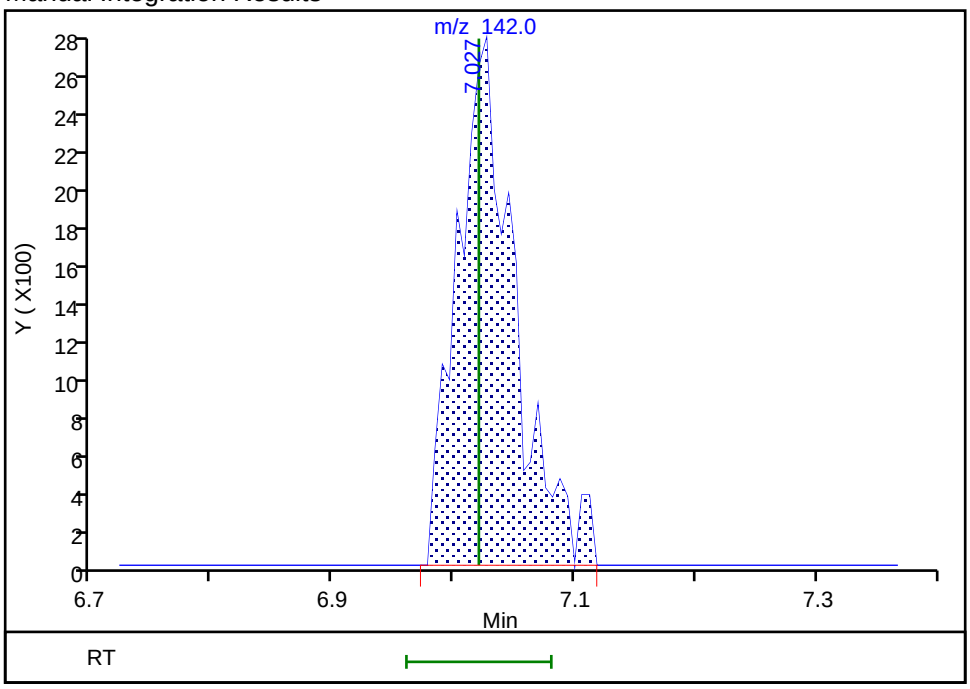
Not Detected
Expected RT: 7.02

Processing Integration Results



Manual Integration Results

RT: 7.03
Area: 9196
Amount: 0.463184
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:29:41
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

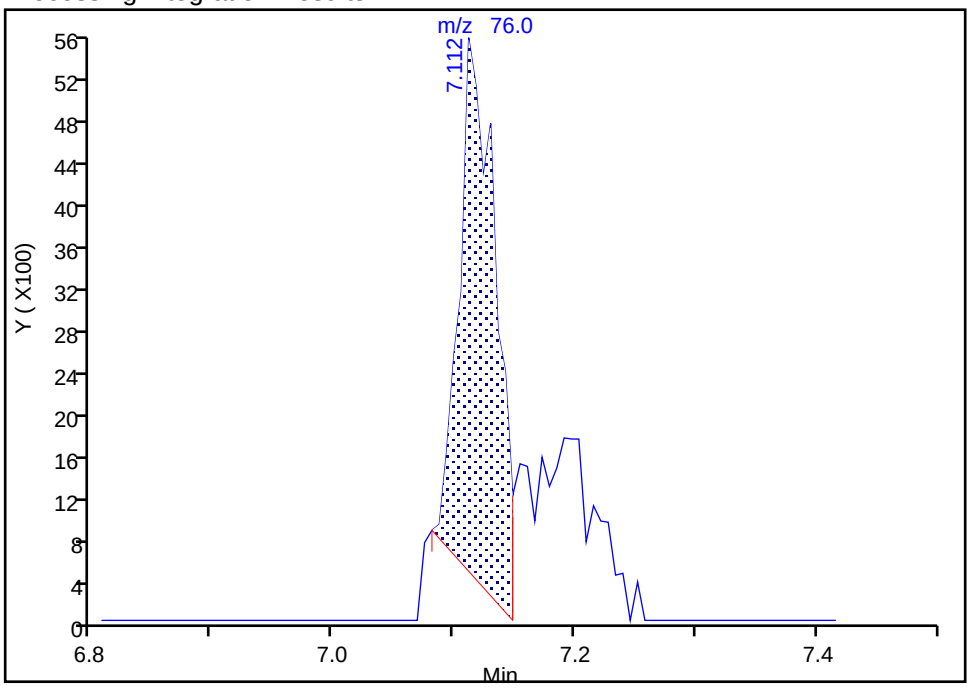
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

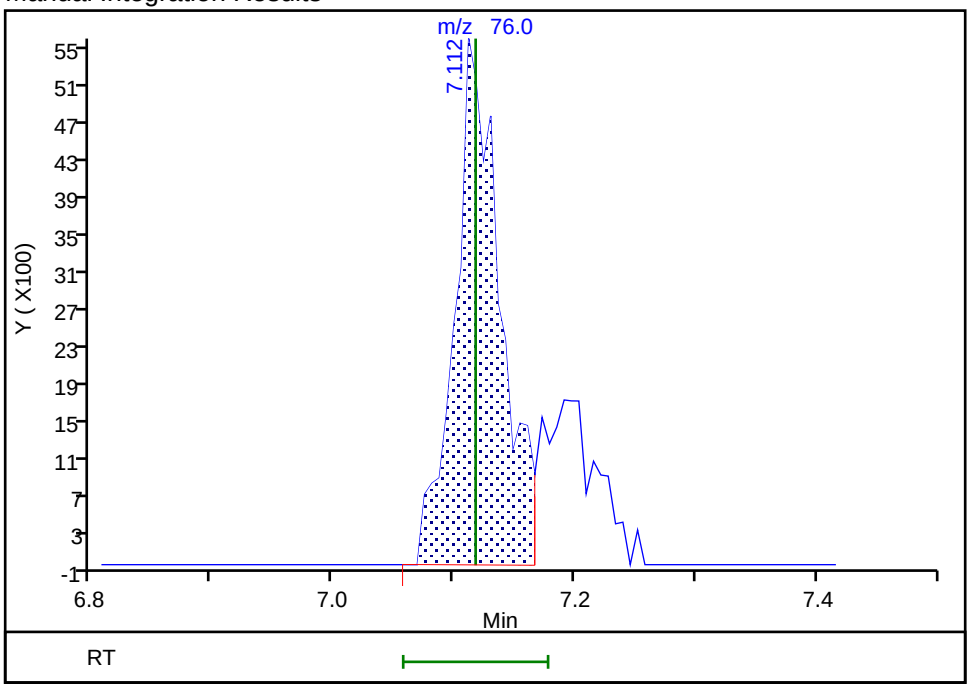
Processing Integration Results

RT: 7.11
Area: 10828
Amount: 0.370338
Amount Units: ug/L



Manual Integration Results

RT: 7.11
Area: 14399
Amount: 0.475867
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:30:48
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

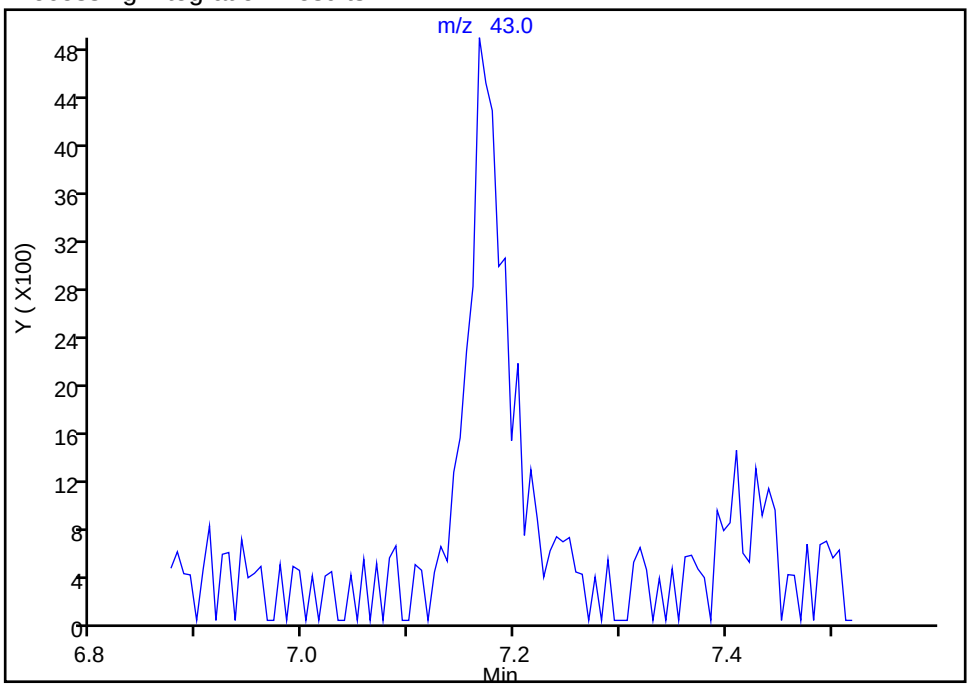
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methyl acetate, CAS: 79-20-9

Signal: 1

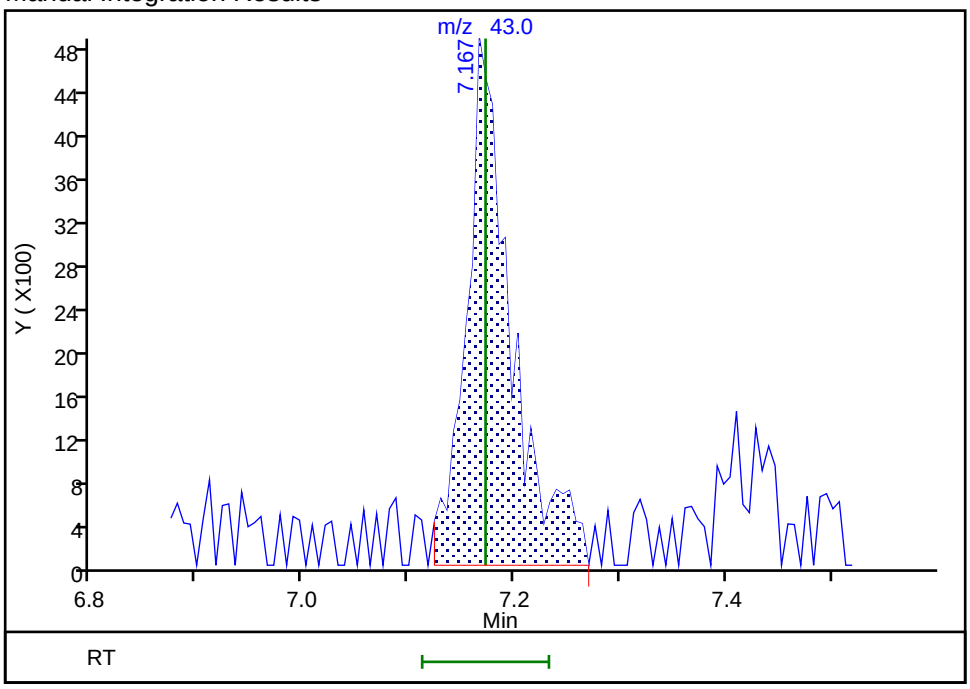
Not Detected
Expected RT: 7.17

Processing Integration Results



Manual Integration Results

RT: 7.17
Area: 14216
Amount: 1.177456
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:30:54
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

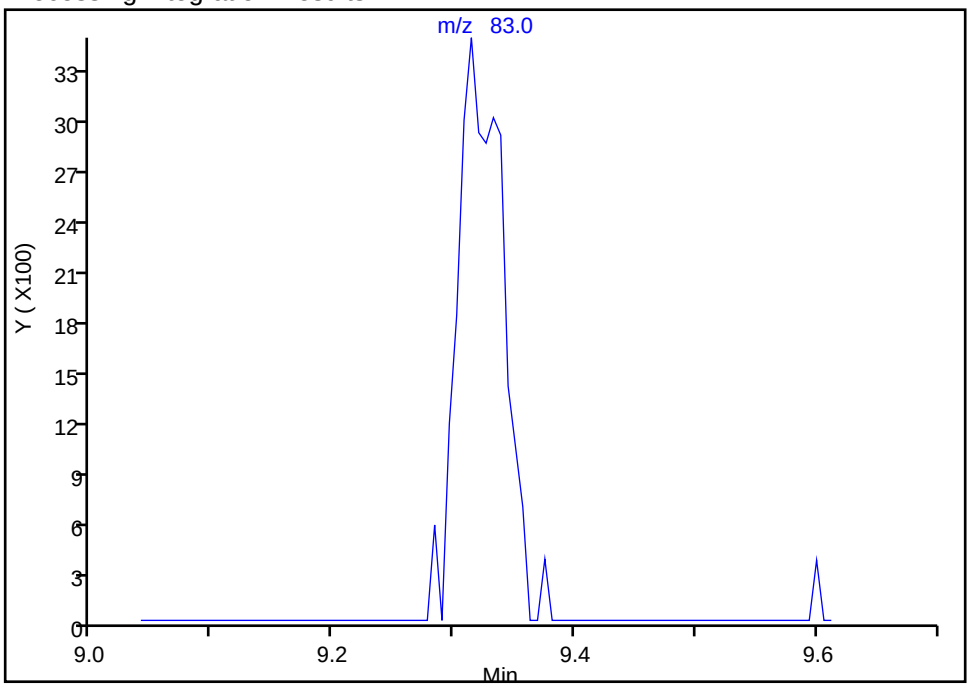
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

49 Chloroform, CAS: 67-66-3

Signal: 1

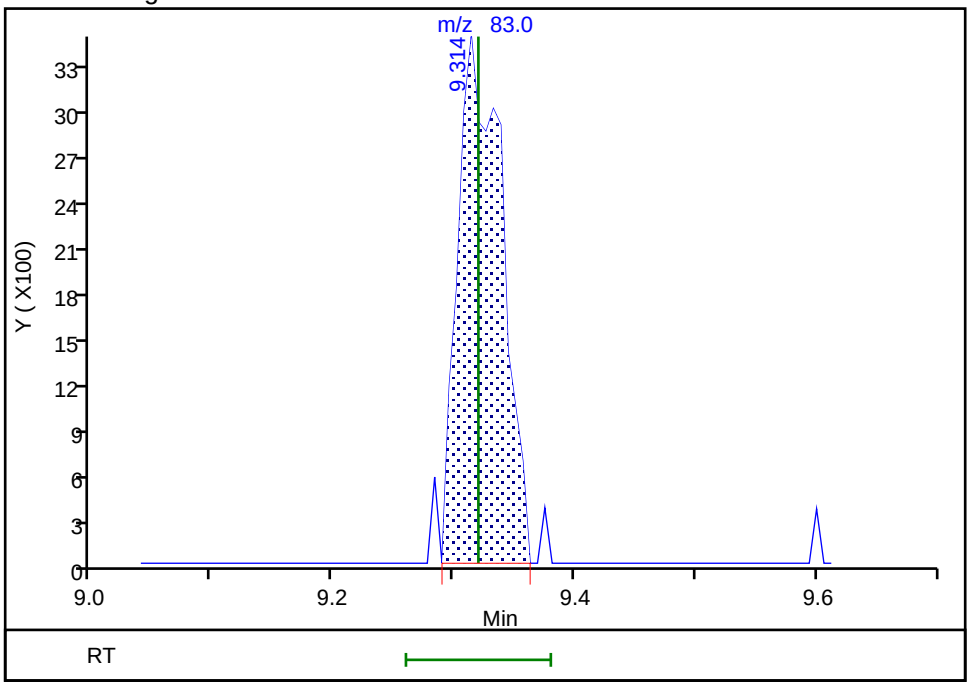
Not Detected
Expected RT: 9.32

Processing Integration Results



Manual Integration Results

RT: 9.31
Area: 8694
Amount: 0.440091
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:31:11
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

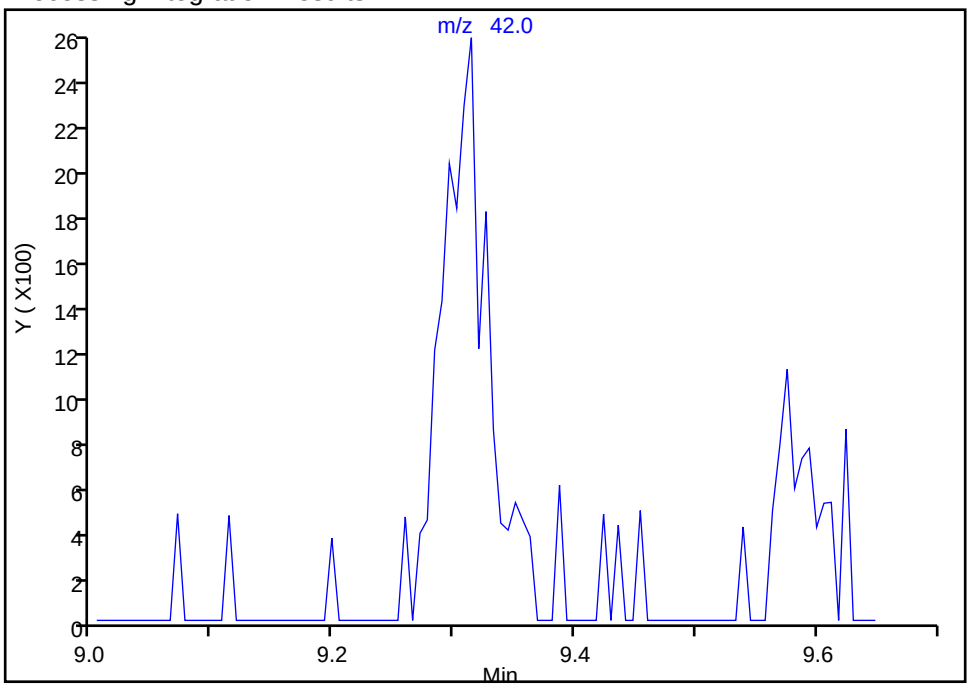
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

51 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

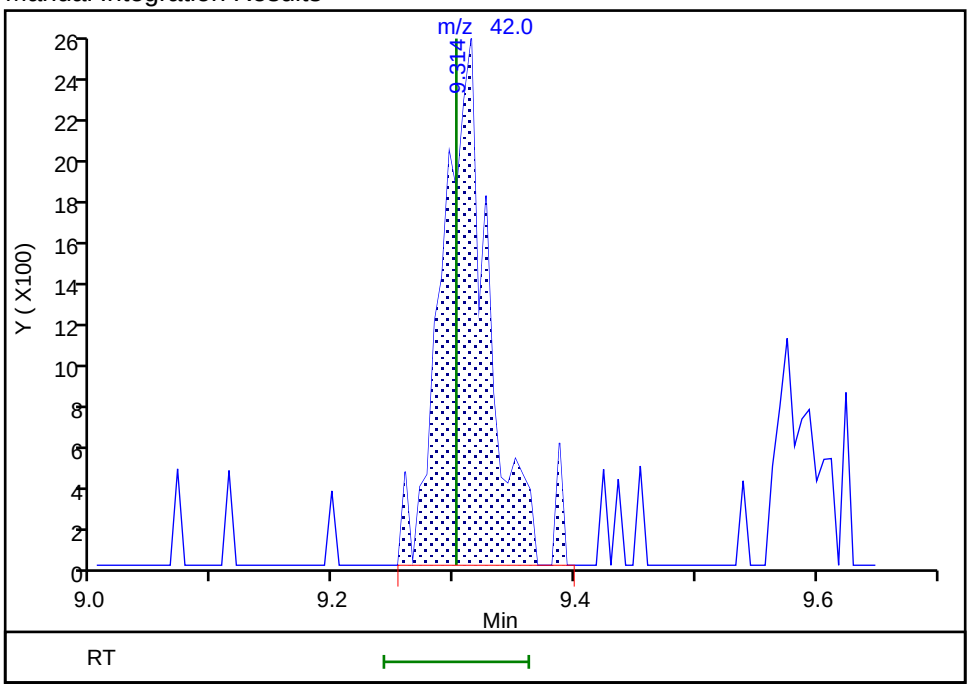
Not Detected
Expected RT: 9.30

Processing Integration Results



Manual Integration Results

RT: 9.31
Area: 6955
Amount: 1.406422
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:31:06
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

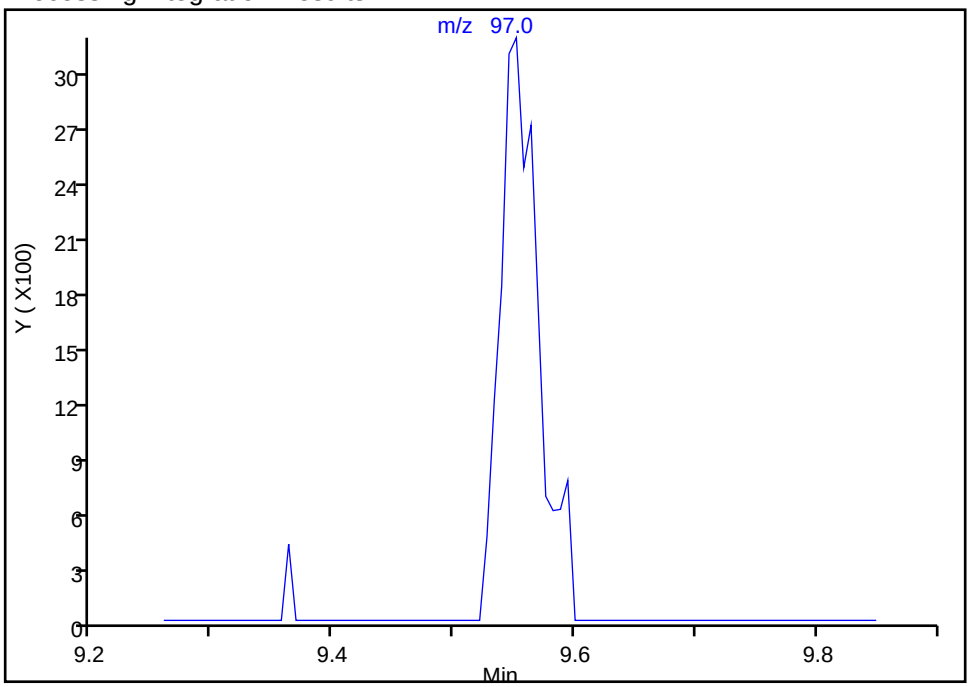
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

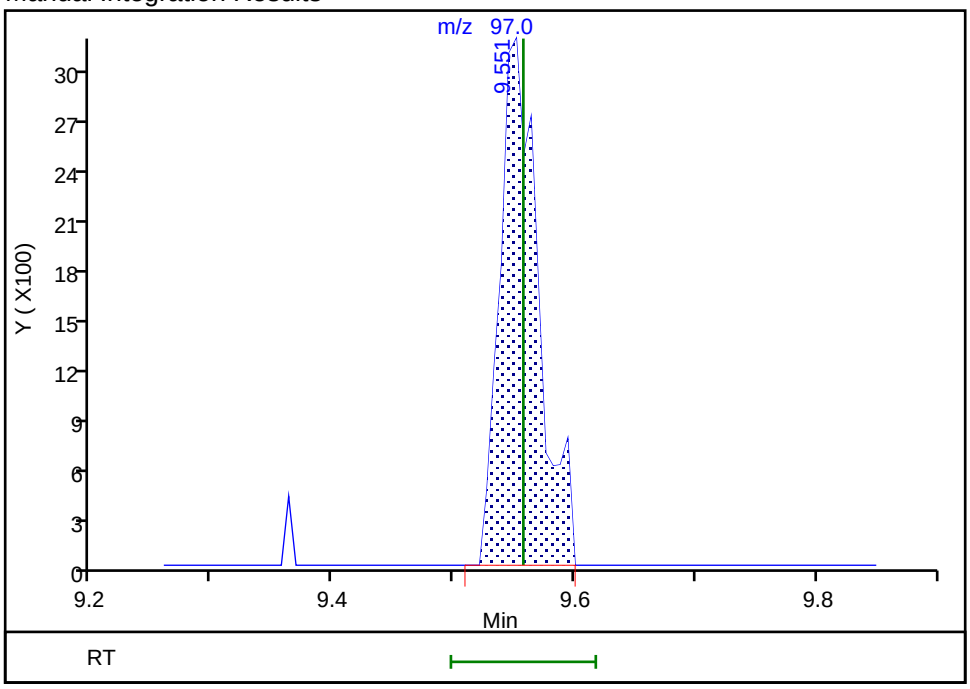
Not Detected
Expected RT: 9.56

Processing Integration Results



Manual Integration Results

RT: 9.55
Area: 7040
Amount: 0.432971
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:31:16
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

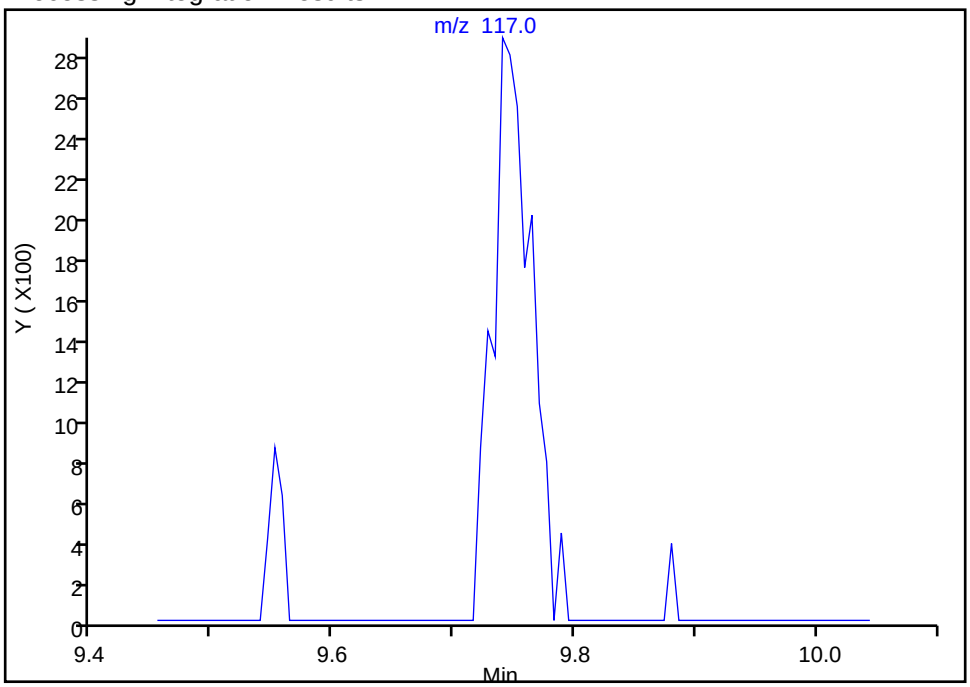
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

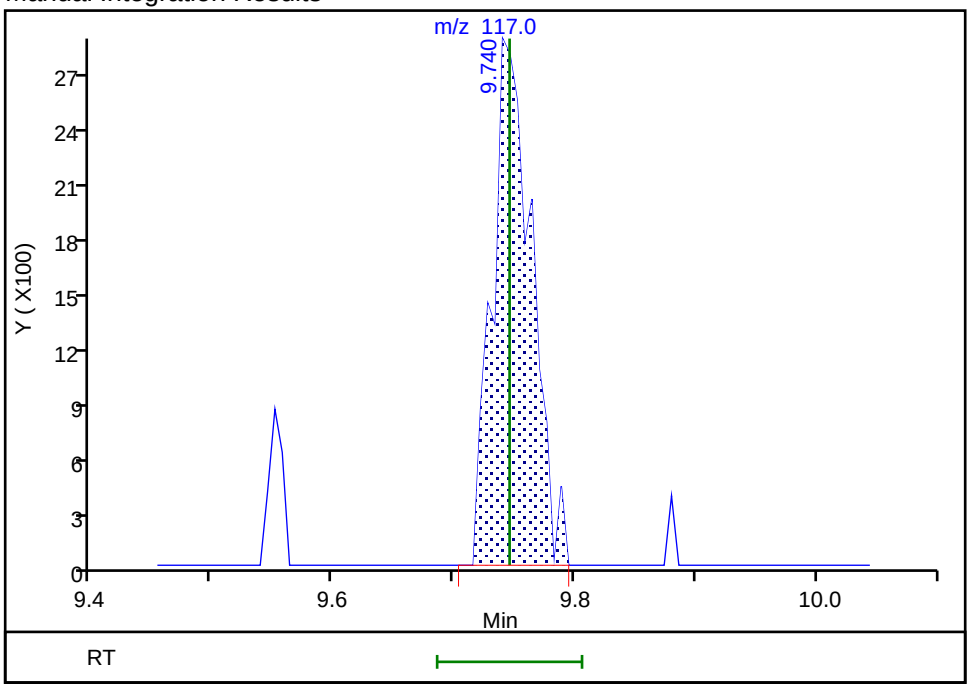
Not Detected
Expected RT: 9.75

Processing Integration Results



Manual Integration Results

RT: 9.74
Area: 6360
Amount: 0.430373
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:31:21
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

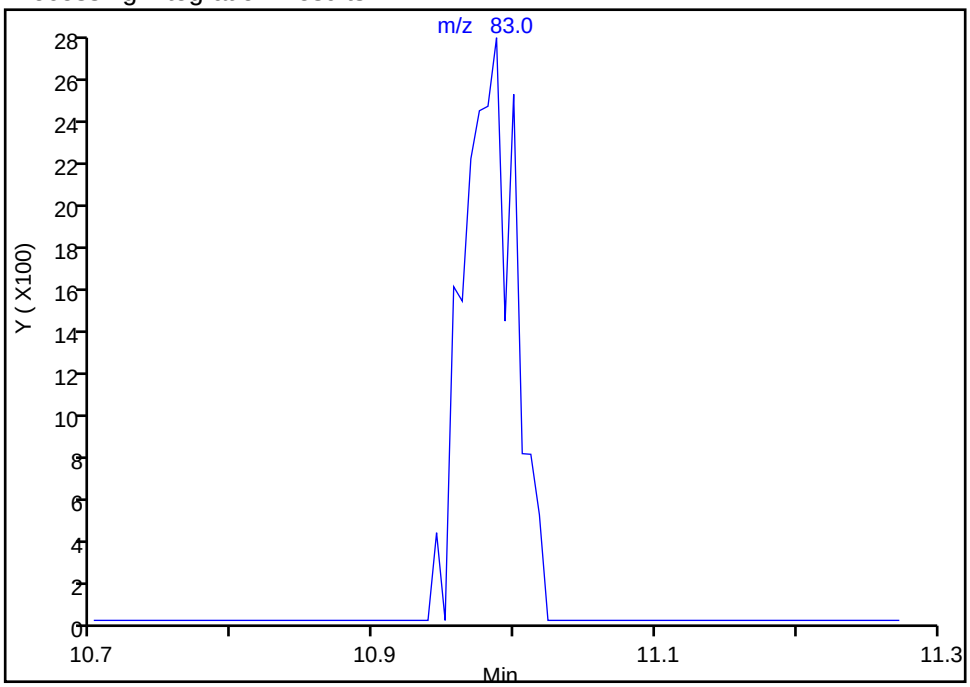
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

64 Methylcyclohexane, CAS: 108-87-2

Signal: 1

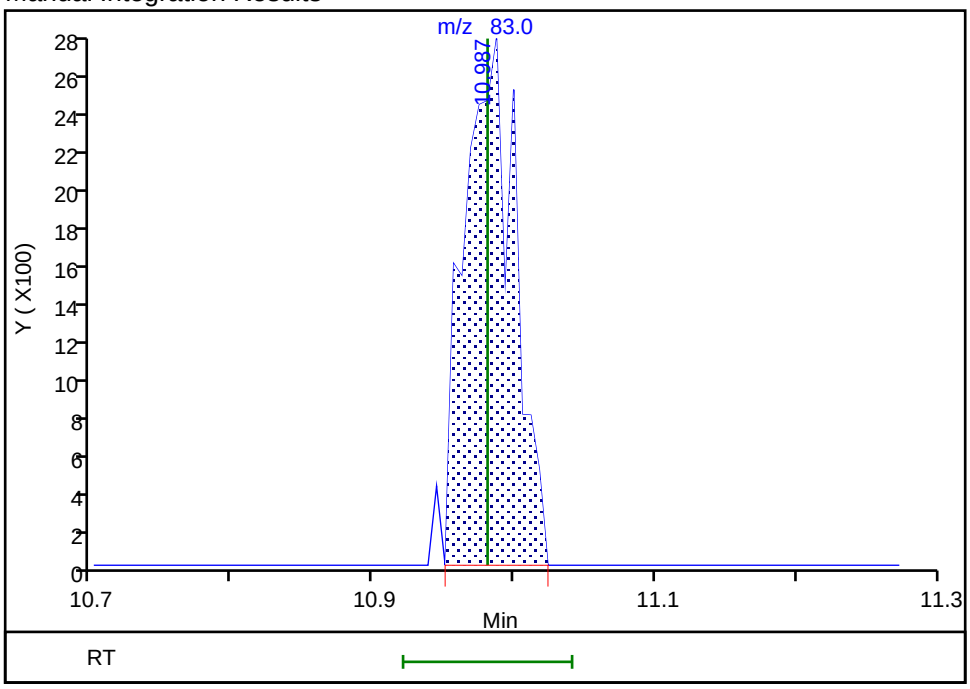
Not Detected
Expected RT: 10.98

Processing Integration Results



Manual Integration Results

RT: 10.99
Area: 6770
Amount: 0.485377
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:31:27
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

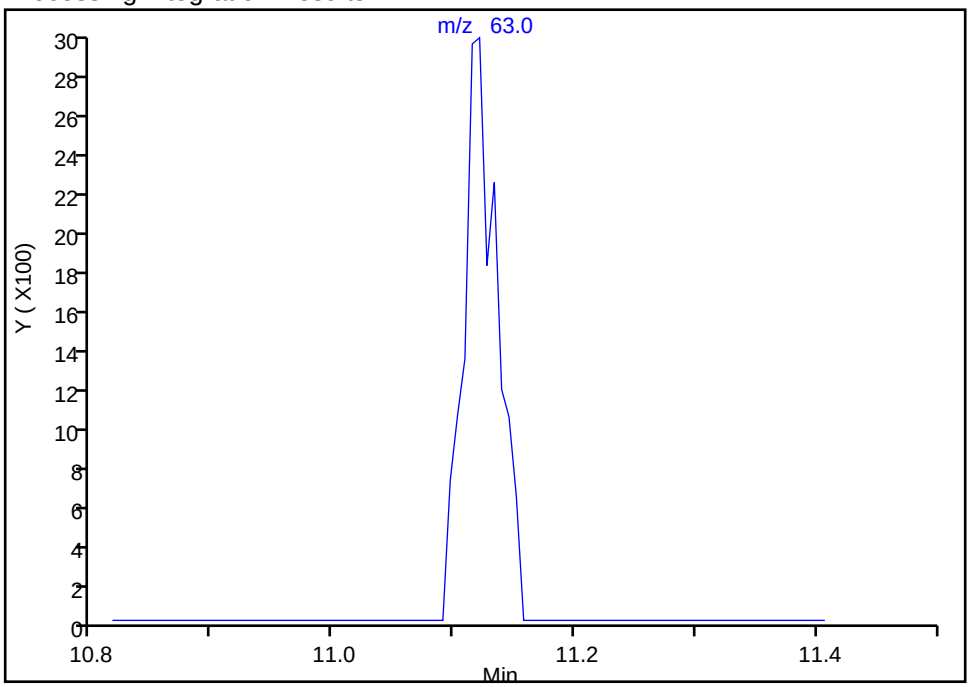
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

63 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

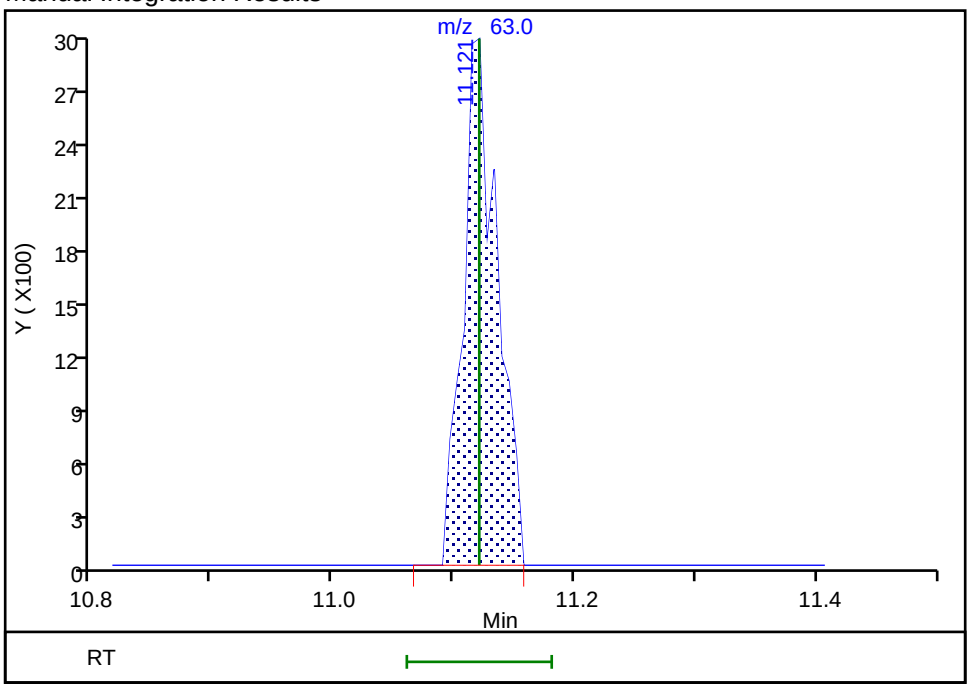
Not Detected
Expected RT: 11.12

Processing Integration Results



Manual Integration Results

RT: 11.12
Area: 5687
Amount: 0.484365
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:31:33
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

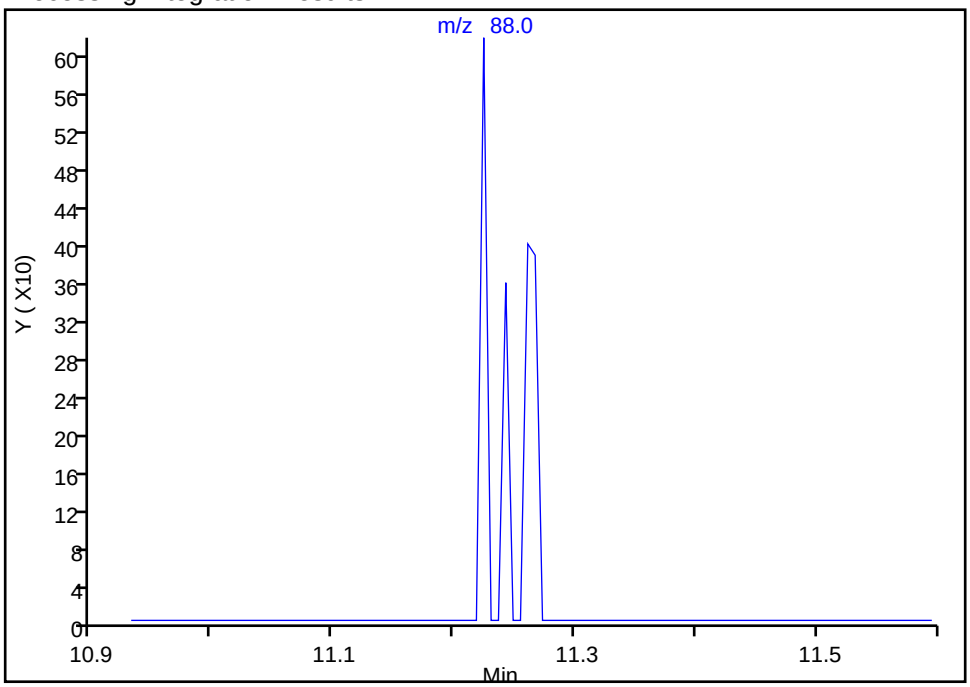
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

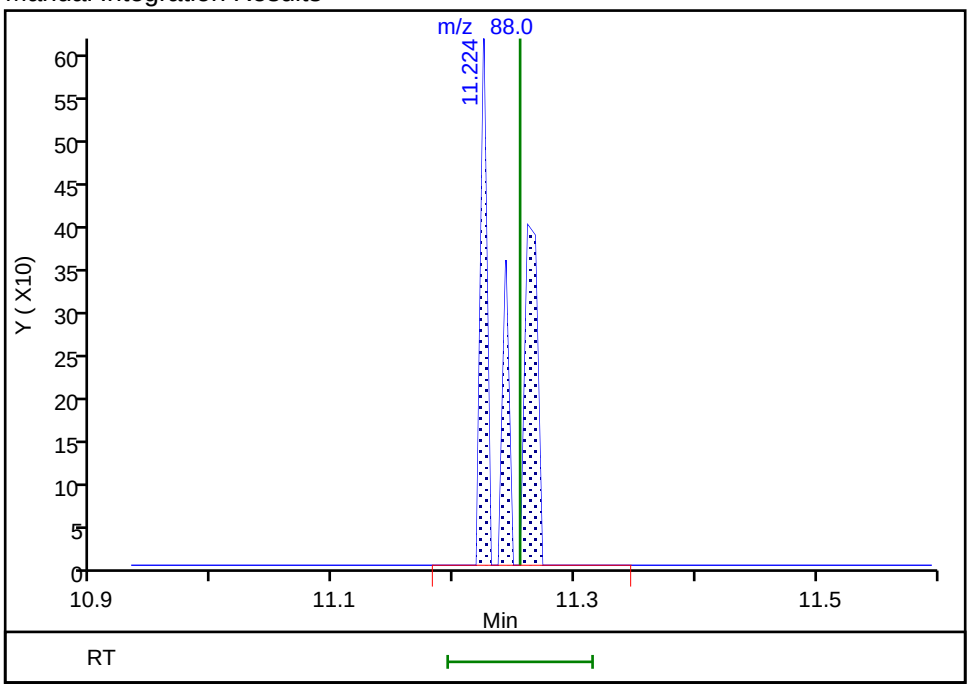
Not Detected
Expected RT: 11.25

Processing Integration Results



Manual Integration Results

RT: 11.22
Area: 641
Amount: 5.454610
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:31:45
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

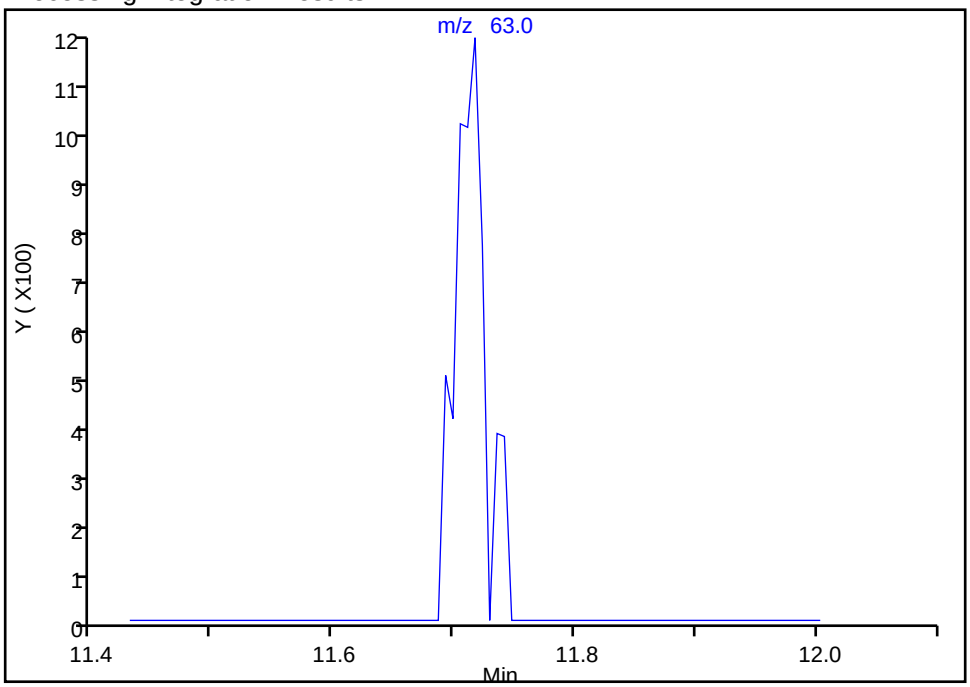
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

71 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

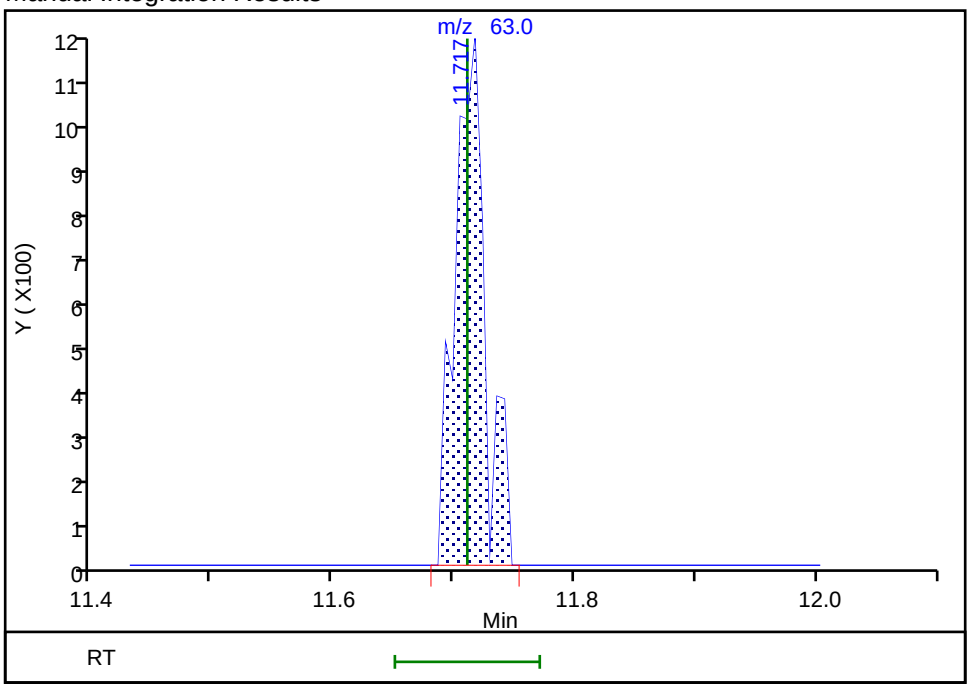
Not Detected
Expected RT: 11.71

Processing Integration Results



Manual Integration Results

RT: 11.72
Area: 1982
Amount: 0.454479
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:31:54
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

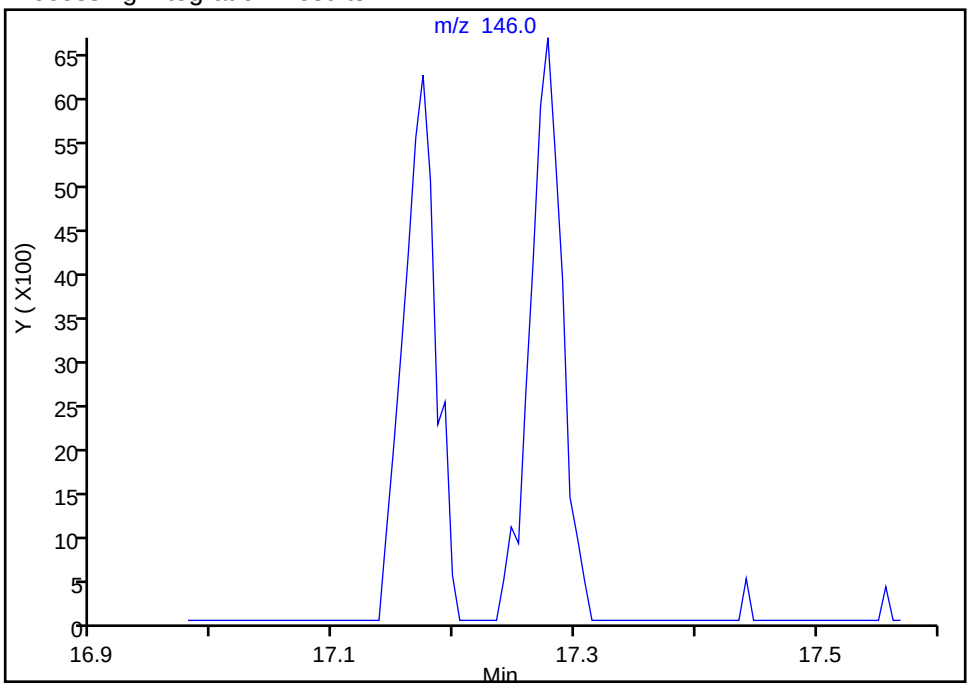
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38544.D
Injection Date: 23-Nov-2018 14:22:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

111 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

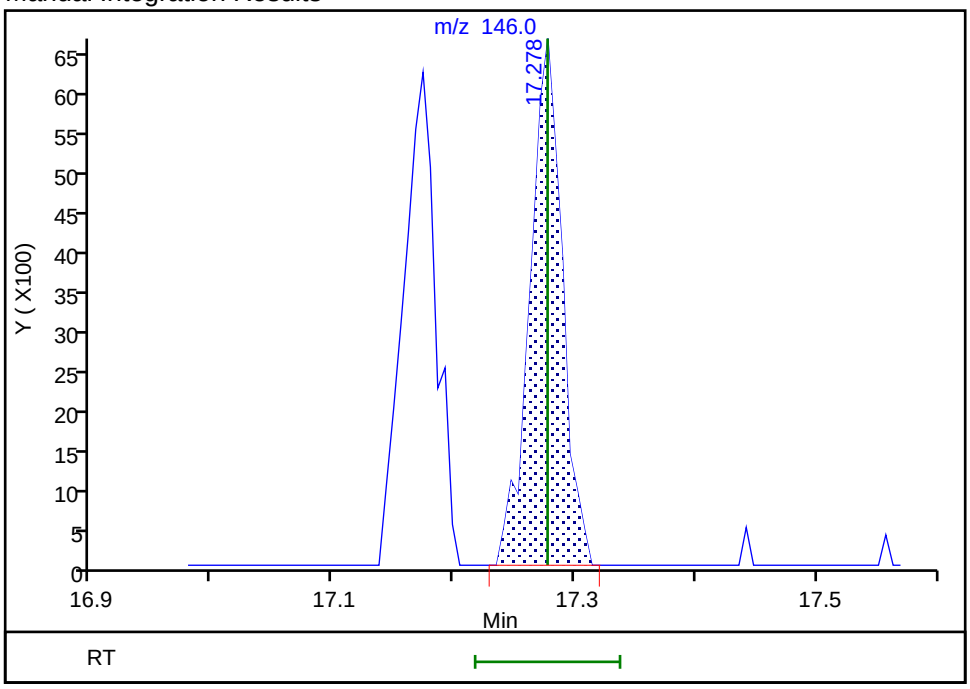
Not Detected
Expected RT: 17.28

Processing Integration Results



Manual Integration Results

RT: 17.28
Area: 12276
Amount: 0.505374
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:33:12
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Nov-2018 14:49:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0076682-008
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Nov-2018 11:16:41 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: milligana Date: 24-Nov-2018 14:21:54

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	10.336	10.336	0.000	98	173739	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.284	14.284	0.000	87	362895	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.247	0.000	96	363337	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.533	0.006	92	252485	25.0	25.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.989	0.000	0	145230	25.0	25.0	
$ 5 Toluene-d8 (Surr)	98	12.319	12.319	0.000	93	865664	25.0	24.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	92	276782	25.0	24.3	
10 Dichlorodifluoromethane	85	4.252	4.252	0.000	66	13392	1.00	1.06	M
11 Chloromethane	50	4.678	4.672	0.006	74	24577	1.00	1.23	M
17 Vinyl chloride	62	4.855	4.855	0.000	88	19044	1.00	1.12	
144 Butadiene	54	4.897	4.897	0.000	95	21134	1.00	1.30	
12 Bromomethane	94	5.469	5.481	-0.012	60	14662	1.00	1.24	
13 Chloroethane	64	5.615	5.615	0.000	59	10120	1.00	1.12	M
19 Dichlorofluoromethane	67	5.889	5.895	-0.006	94	25884	1.00	1.13	
14 Trichlorofluoromethane	101	5.956	5.962	-0.006	96	19104	1.00	1.02	
20 Ethyl ether	59	6.321	6.315	0.006	94	9510	1.00	1.03	
22 Acrolein	56	6.631	6.619	0.012	94	10932	5.00	4.89	
16 1,1,2-Trichloro-1,2,2-trif	101	6.631	6.637	-0.006	82	8769	1.00	0.9386	
25 1,1-Dichloroethene	96	6.716	6.728	-0.012	90	11973	1.00	1.13	M
24 Acetone	43	6.814	6.807	0.007	98	32618	5.00	5.56	M
18 Iodomethane	142	7.008	7.020	-0.012	88	17402	1.00	0.8947	
27 Carbon disulfide	76	7.118	7.118	0.000	98	29485	1.00	0.99	
30 Methyl acetate	43	7.172	7.172	0.000	86	26599	2.00	2.25	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	81	20486	1.00	1.09	
31 Methylene Chloride	84	7.398	7.385	0.013	98	22407	1.00	1.01	M
33 2-Methyl-2-propanol	59	7.428	7.422	0.006	90	18445	10.0	9.81	Ma
32 Methyl tert-butyl ether	73	7.598	7.598	0.000	97	29027	1.00	0.9531	
35 trans-1,2-Dichloroethene	96	7.690	7.696	-0.006	97	13279	1.00	1.15	a
34 Acrylonitrile	53	7.732	7.726	0.006	99	56360	10.0	11.0	
36 Hexane	57	7.902	7.896	0.006	92	12625	1.00	1.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.201	8.195	0.006	97	51083	2.00	1.98	
40 1,1-Dichloroethane	63	8.243	8.249	-0.006	97	20647	1.00	1.03	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	95	43547	5.00	5.49	a
45 2,2-Dichloropropane	77	8.949	8.937	0.012	78	13654	1.00	1.04	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	84	13874	1.00	1.08	
50 Chlorobromomethane	128	9.290	9.290	0.000	87	6409	1.00	0.9649	
51 Tetrahydrofuran	42	9.314	9.302	0.012	64	9373	2.00	1.93	
49 Chloroform	83	9.320	9.320	0.000	96	20029	1.00	1.03	
52 1,1,1-Trichloroethane	97	9.545	9.557	-0.012	35	16073	1.00	1.01	a
54 Cyclohexane	56	9.600	9.600	0.000	91	15092	1.00	0.9892	
56 1,1-Dichloropropene	75	9.728	9.734	-0.006	87	14496	1.00	1.03	
55 Carbon tetrachloride	117	9.752	9.746	0.006	89	13791	1.00	0.9526	
53 Isobutyl alcohol	43	9.752	9.758	-0.006	79	24525	25.0	27.1	M
57 Benzene	78	10.038	10.032	0.006	94	42460	1.00	1.04	
60 1,2-Dichloroethane	62	10.086	10.087	-0.001	95	16590	1.00	0.99	
59 n-Heptane	43	10.086	10.093	-0.007	80	11375	1.00	1.15	
62 Trichloroethene	95	10.792	10.786	0.006	93	11147	1.00	0.9692	
64 Methylcyclohexane	83	10.975	10.981	-0.006	85	13621	1.00	1.00	a
63 1,2-Dichloropropane	63	11.121	11.121	0.000	89	12019	1.00	1.04	a
68 1,4-Dioxane	88	11.267	11.255	0.012	30	1717	20.0	14.4	M
69 Dibromomethane	93	11.340	11.328	0.012	87	8130	1.00	0.9730	
70 Dichlorobromomethane	83	11.467	11.455	0.012	94	13755	1.00	0.9207	
71 2-Chloroethyl vinyl ether	63	11.711	11.711	0.000	84	3673	1.00	0.8598	
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	90	16286	1.00	0.9492	
75 4-Methyl-2-pentanone (MIBK	43	12.100	12.094	0.006	98	78272	5.00	5.35	
76 Toluene	92	12.416	12.417	-0.001	97	28311	1.00	1.04	
77 Ethyl methacrylate	69	12.635	12.636	-0.001	89	13989	1.00	0.8931	
78 trans-1,3-Dichloropropene	75	12.702	12.702	0.000	93	14050	1.00	0.8636	
79 1,1,2-Trichloroethane	83	12.982	12.994	-0.012	89	8822	1.00	0.9785	a
80 Tetrachloroethene	166	13.134	13.140	-0.006	87	10124	1.00	0.8957	
83 2-Hexanone	43	13.189	13.183	0.006	99	62484	5.00	5.42	
82 1,3-Dichloropropane	76	13.232	13.226	0.006	81	16646	1.00	0.9449	
81 Chlorodibromomethane	129	13.566	13.566	0.000	91	11407	1.00	0.9303	
85 Ethylene Dibromide	107	13.761	13.767	-0.006	98	10658	1.00	0.9252	
87 Chlorobenzene	112	14.321	14.327	-0.006	93	31301	1.00	0.99	
89 Ethylbenzene	91	14.369	14.369	0.000	97	47907	1.00	1.00	
88 1,1,1,2-Tetrachloroethane	131	14.406	14.406	0.000	90	10251	1.00	0.8741	
90 m-Xylene & p-Xylene	106	14.509	14.503	0.006	0	19013	1.00	0.9881	
93 o-Xylene	106	15.057	15.057	0.000	96	18061	1.00	0.9379	
94 Styrene	104	15.081	15.081	0.000	94	29614	1.00	0.9124	
92 Bromoform	173	15.464	15.464	0.000	39	6932	1.00	0.8394	
95 Isopropylbenzene	105	15.483	15.483	0.000	97	43096	1.00	1.01	
97 1,1,2,2-Tetrachloroethane	83	15.957	15.957	0.000	95	15198	1.00	1.06	
98 trans-1,4-Dichloro-2-buten	53	16.006	16.006	0.000	41	3207	1.00	0.8009	
99 N-Propylbenzene	91	16.012	16.012	0.000	98	52659	1.00	1.06	
100 Bromobenzene	156	16.030	16.030	0.000	89	13800	1.00	1.00	
101 1,2,3-Trichloropropane	110	16.054	16.048	0.006	85	4089	1.00	0.9522	
102 1,3,5-Trimethylbenzene	105	16.200	16.201	-0.001	97	34167	1.00	0.9618	
103 2-Chlorotoluene	126	16.213	16.219	-0.006	95	10911	1.00	0.8943	
105 4-Chlorotoluene	126	16.353	16.347	0.006	98	12131	1.00	0.9783	
106 tert-Butylbenzene	134	16.645	16.639	0.006	93	6615	1.00	0.8576	
107 1,2,4-Trimethylbenzene	105	16.711	16.699	0.012	96	36984	1.00	0.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.906	16.906	0.000	95	40308	1.00	0.9846	
112 4-Isopropyltoluene	119	17.052	17.052	0.000	94	31836	1.00	0.9295	
110 1,3-Dichlorobenzene	146	17.174	17.174	0.000	95	22128	1.00	0.9471	
111 1,4-Dichlorobenzene	146	17.271	17.277	-0.006	93	23864	1.00	0.9835	
115 n-Butylbenzene	91	17.569	17.569	0.000	97	30743	1.00	1.02	
116 1,2-Dichlorobenzene	146	17.764	17.770	-0.006	95	22298	1.00	0.9755	
117 1,2-Dibromo-3-Chloropropan	75	18.810	18.804	0.006	85	3765	1.00	1.24	
119 1,2,4-Trichlorobenzene	180	19.905	19.905	0.000	94	14138	1.00	0.9290	
120 Hexachlorobutadiene	225	20.027	20.027	0.000	77	4208	1.00	0.9059	
121 Naphthalene	128	20.349	20.343	0.006	98	46058	1.00	1.03	
122 1,2,3-Trichlorobenzene	180	20.727	20.721	0.006	92	15523	1.00	1.06	
S 126 Xylenes, Total	1				0			1.93	
S 123 1,2-Dichloroethene, Total	1				0			2.23	
S 124 1,3-Dichloropropene, Total	1				0			1.81	
S 125 Total BTEX	1				0			5.00	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00140	Amount Added:	1.00	Units: uL	
GAS CORP mix_00313	Amount Added:	1.00	Units: uL	
P 8260 IS_00340	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00313	Amount Added:	1.25	Units: uL	Run Reagent

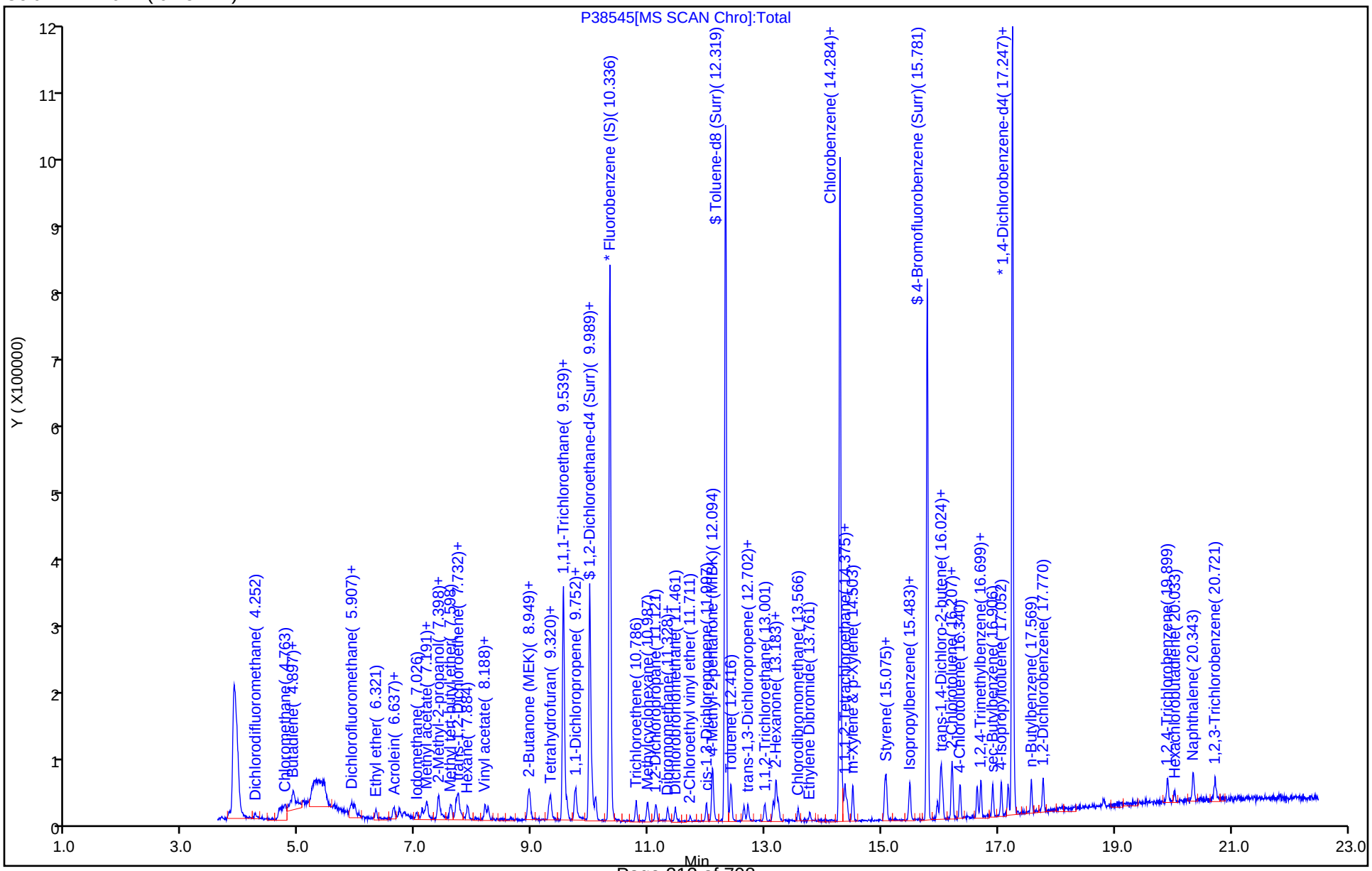
Report Date: 25-Nov-2018 11:16:42 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D

Injection Date:	23-Nov-2018 14:49:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC 2			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

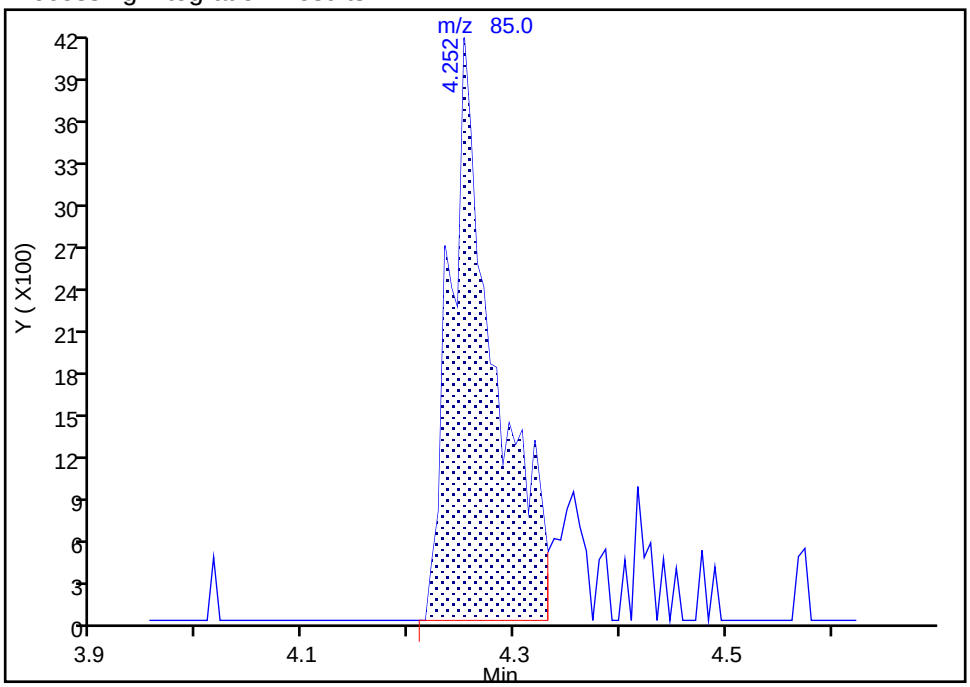
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

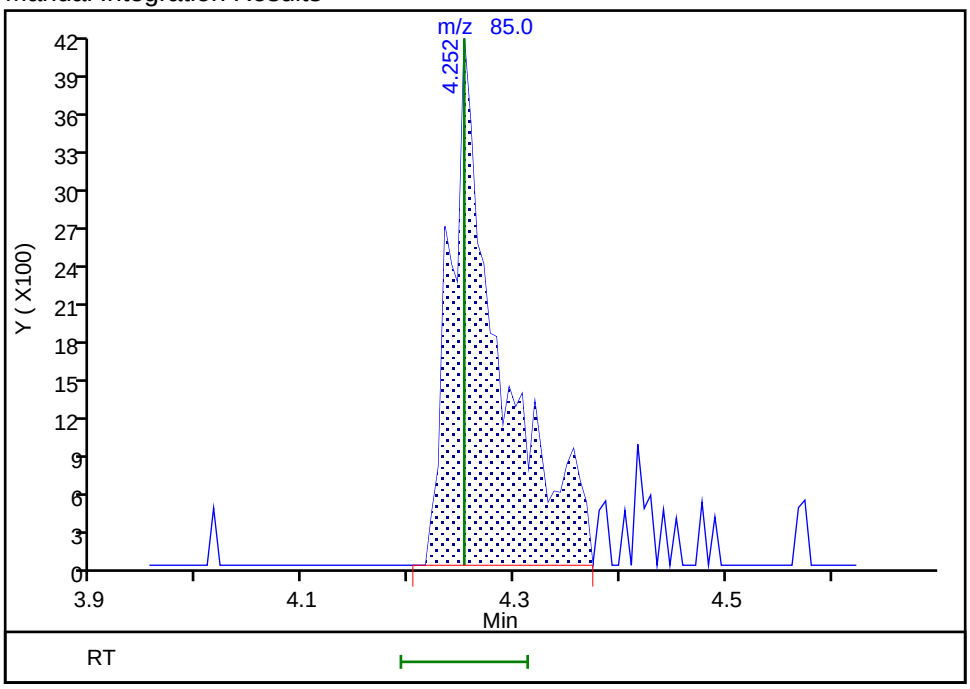
Processing Integration Results

RT: 4.25
Area: 11940
Amount: 0.961394
Amount Units: ug/L



Manual Integration Results

RT: 4.25
Area: 13392
Amount: 1.063348
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:20:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

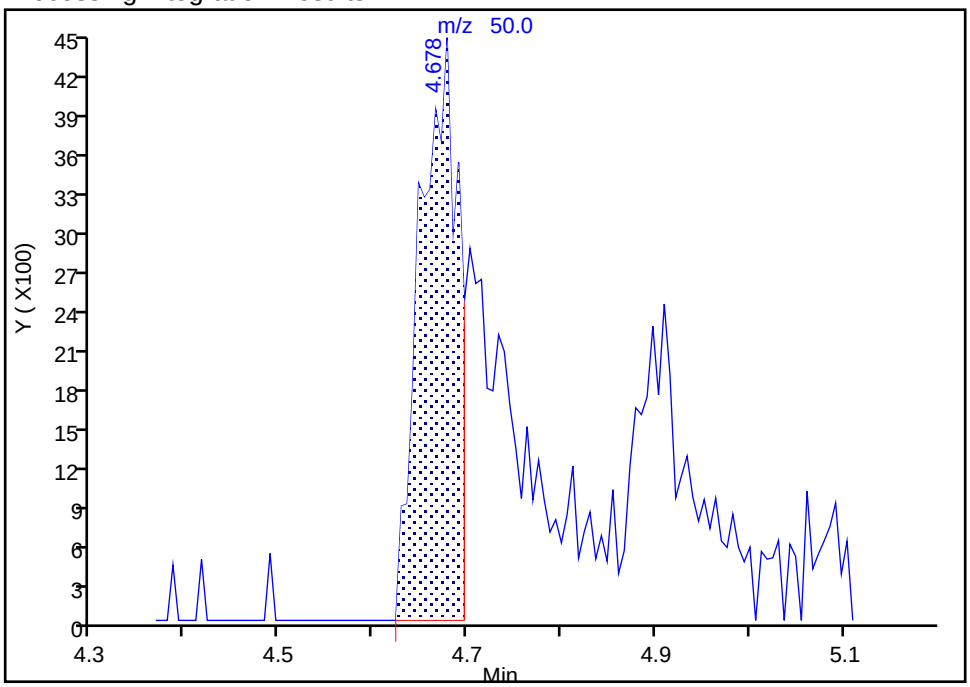
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

11 Chloromethane, CAS: 74-87-3

Signal: 1

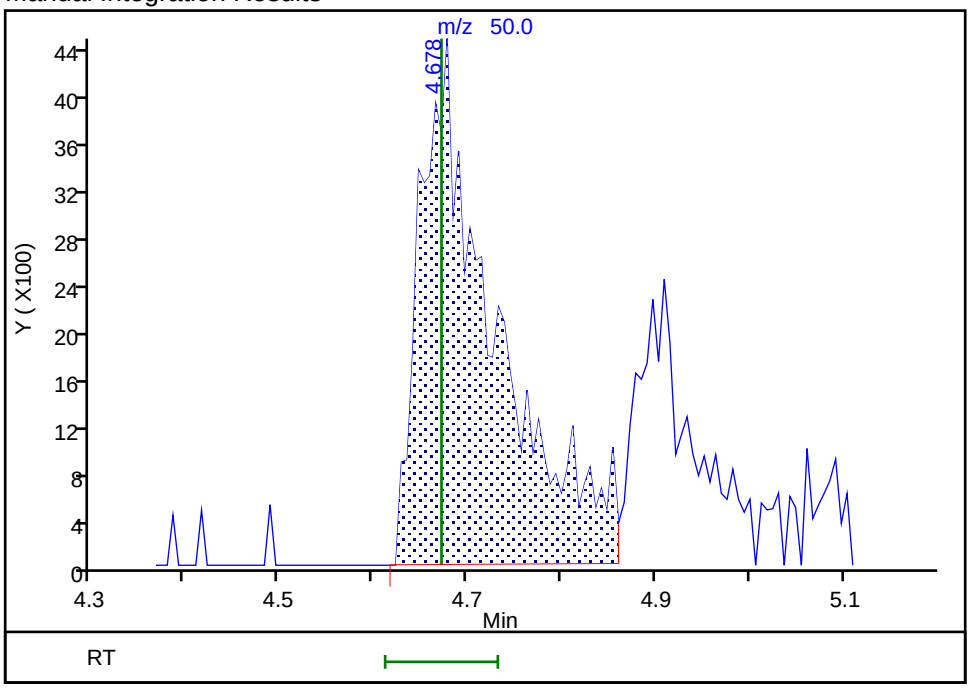
Processing Integration Results

RT: 4.68
Area: 12559
Amount: 0.687588
Amount Units: ug/L



Manual Integration Results

RT: 4.68
Area: 24577
Amount: 1.229948
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:21:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

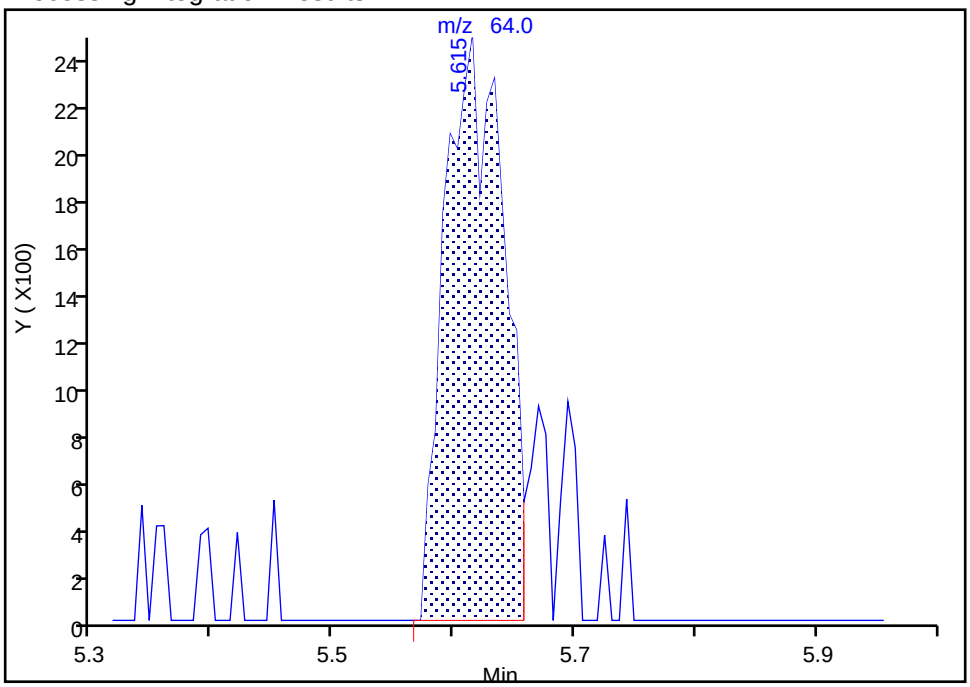
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Chloroethane, CAS: 75-00-3

Signal: 1

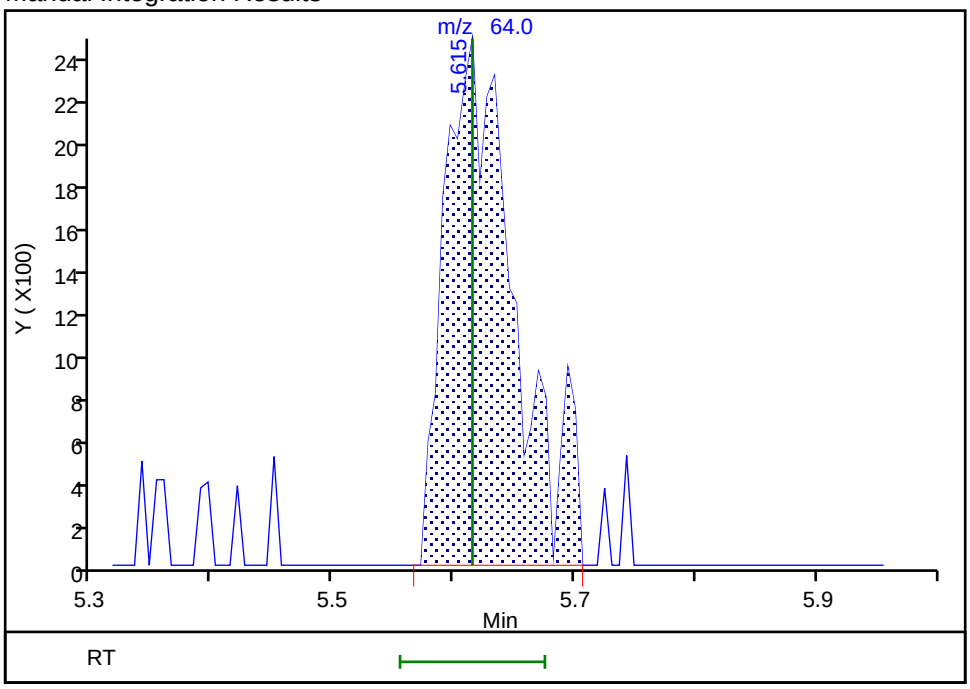
Processing Integration Results

RT: 5.62
Area: 8461
Amount: 0.958954
Amount Units: ug/L



Manual Integration Results

RT: 5.62
Area: 10120
Amount: 1.116979
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:21:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

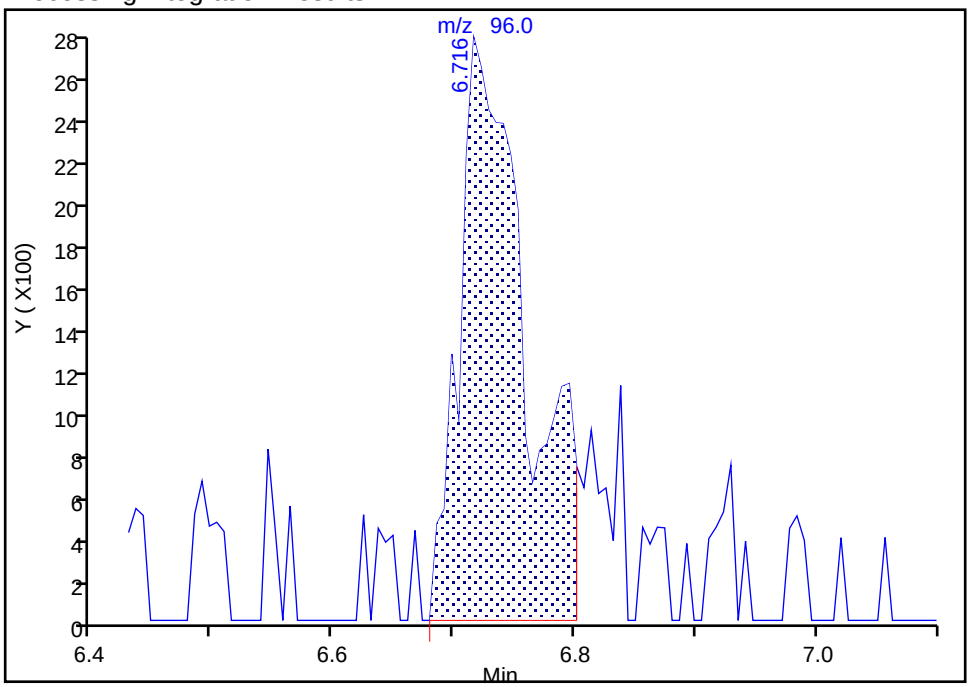
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

25 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

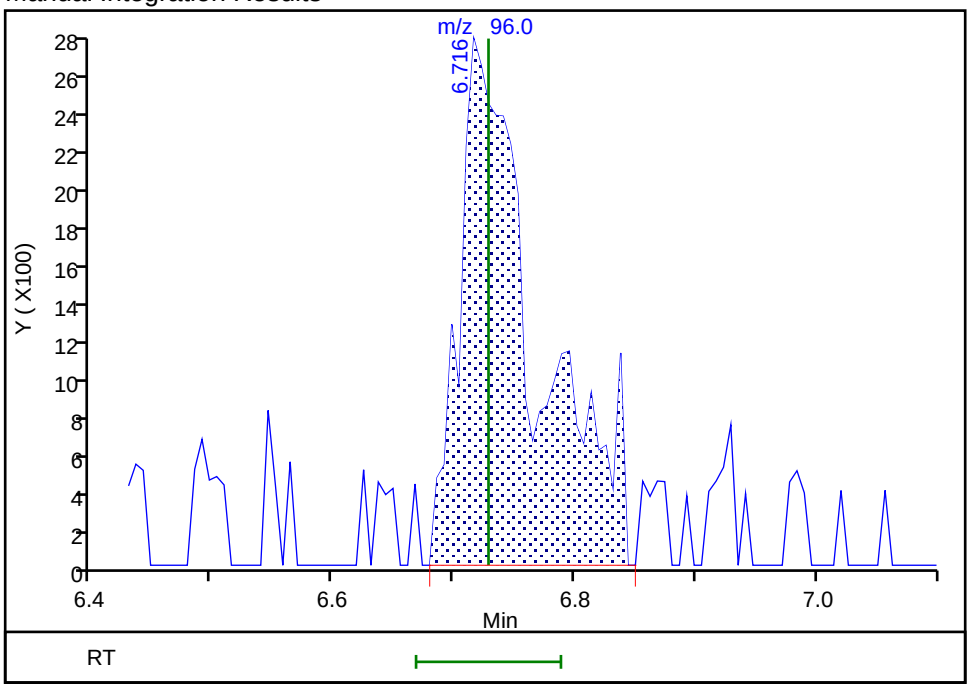
Processing Integration Results

RT: 6.72
Area: 10448
Amount: 1.008565
Amount Units: ug/L



Manual Integration Results

RT: 6.72
Area: 11973
Amount: 1.131971
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:22:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

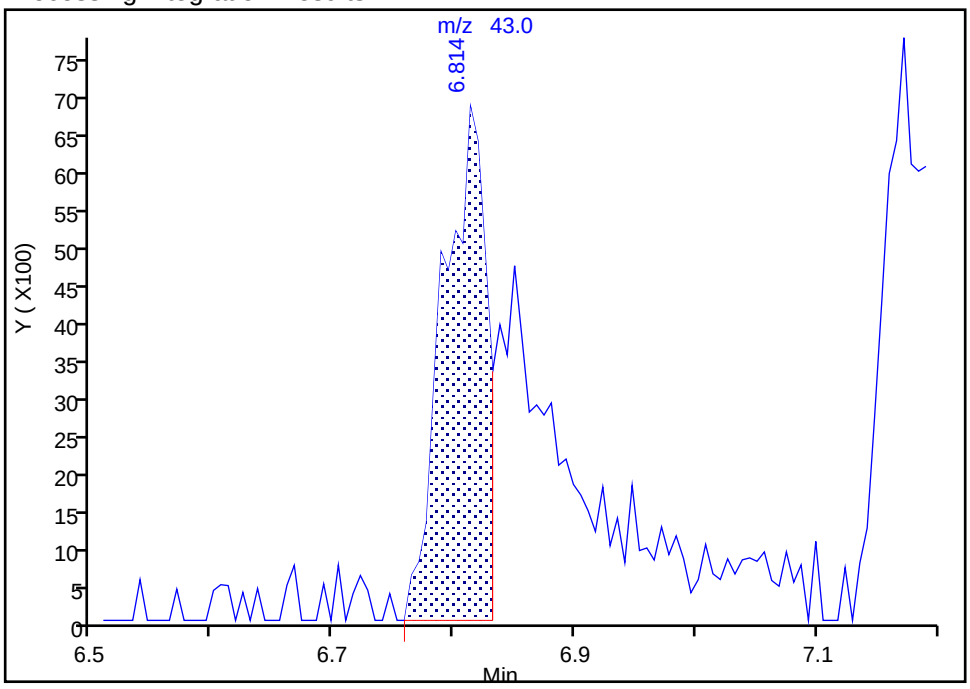
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

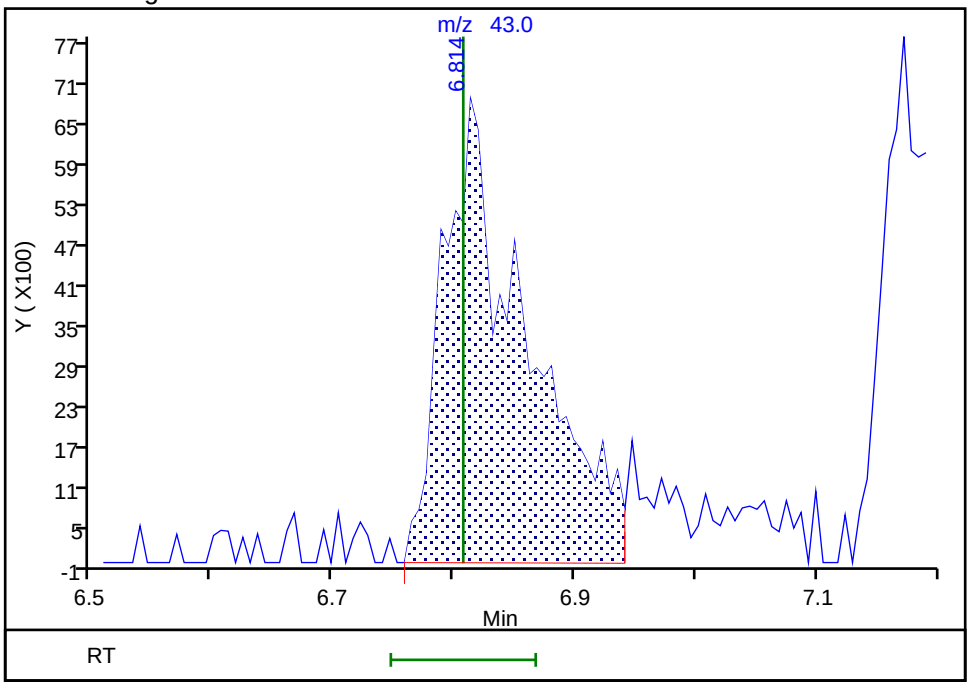
Processing Integration Results

RT: 6.81
Area: 17092
Amount: 3.154224
Amount Units: ug/L



Manual Integration Results

RT: 6.81
Area: 32618
Amount: 5.563966
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:22:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo

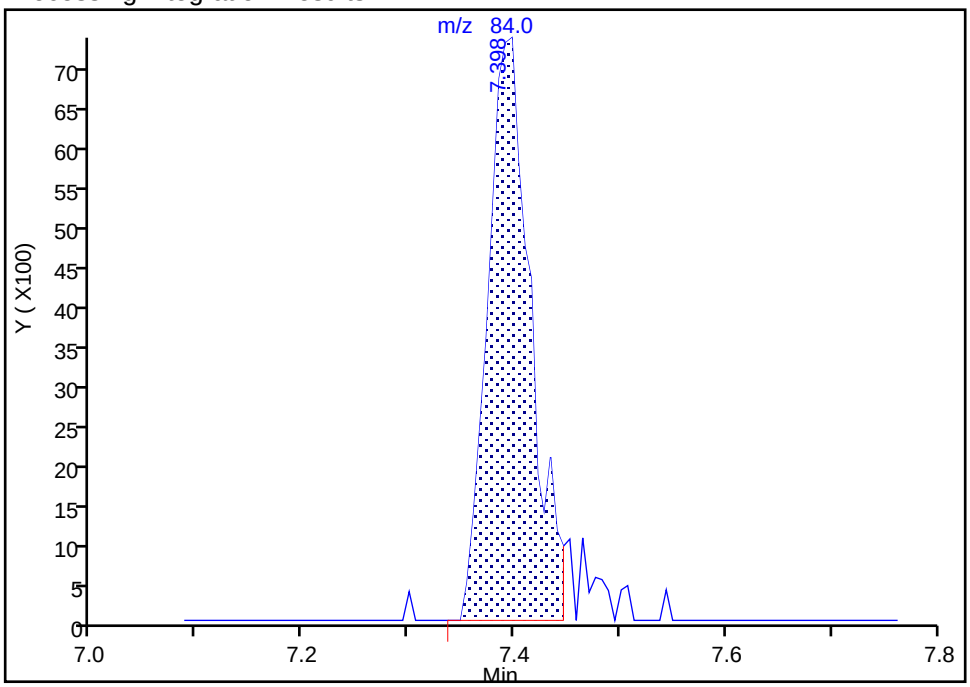
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 Methylene Chloride, CAS: 75-09-2

Signal: 1

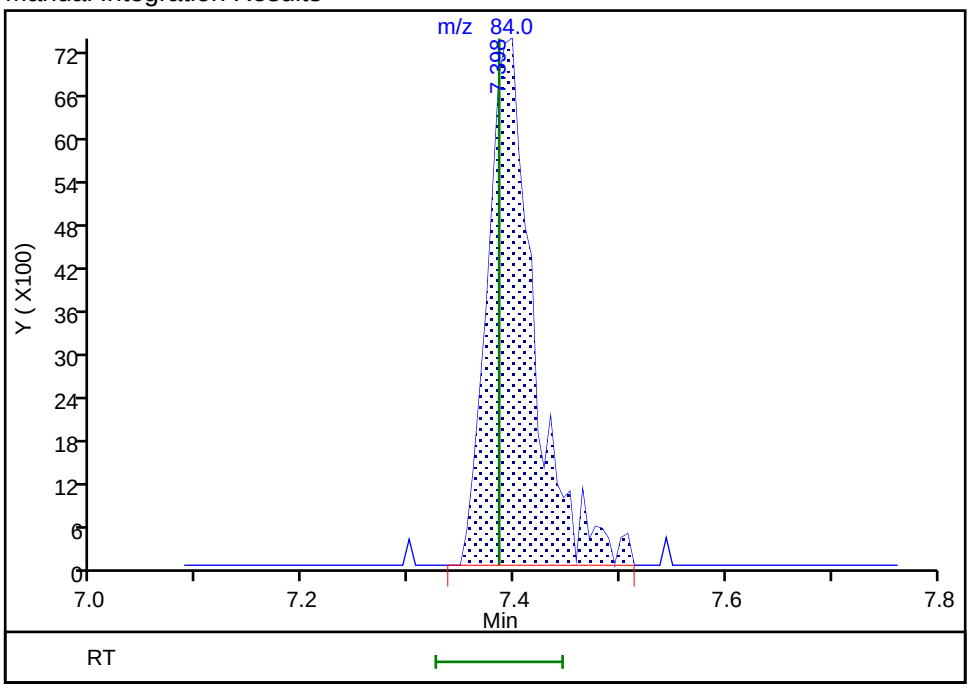
Processing Integration Results

RT: 7.40
Area: 20698
Amount: 0.910660
Amount Units: ug/L



Manual Integration Results

RT: 7.40
Area: 22407
Amount: 1.010327
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:22:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo

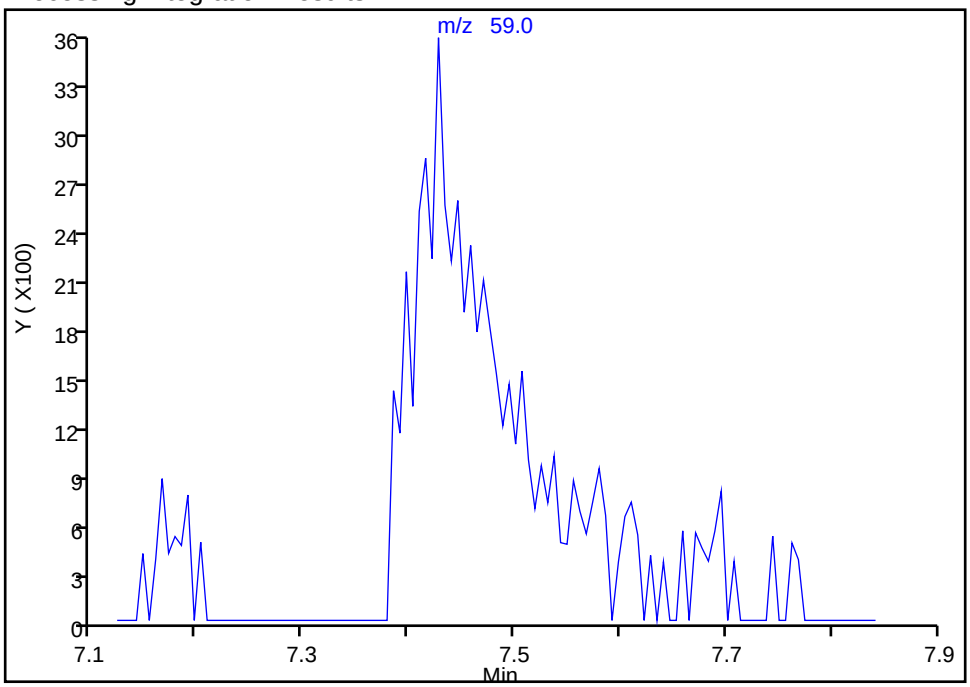
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

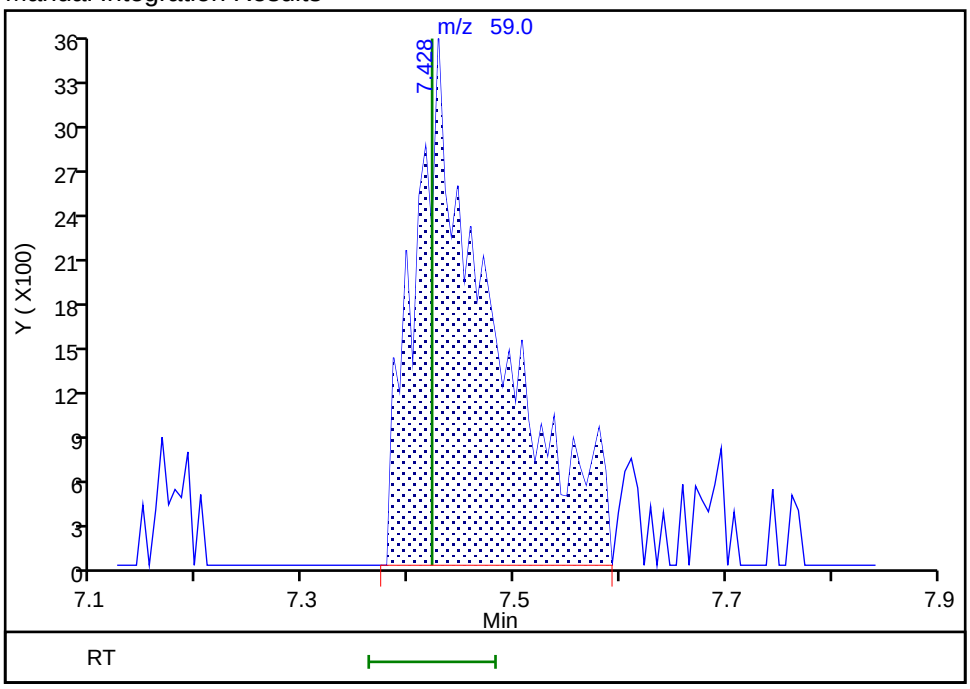
Not Detected
Expected RT: 7.42

Processing Integration Results



Manual Integration Results

RT: 7.43
Area: 18445
Amount: 9.813032
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:23:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

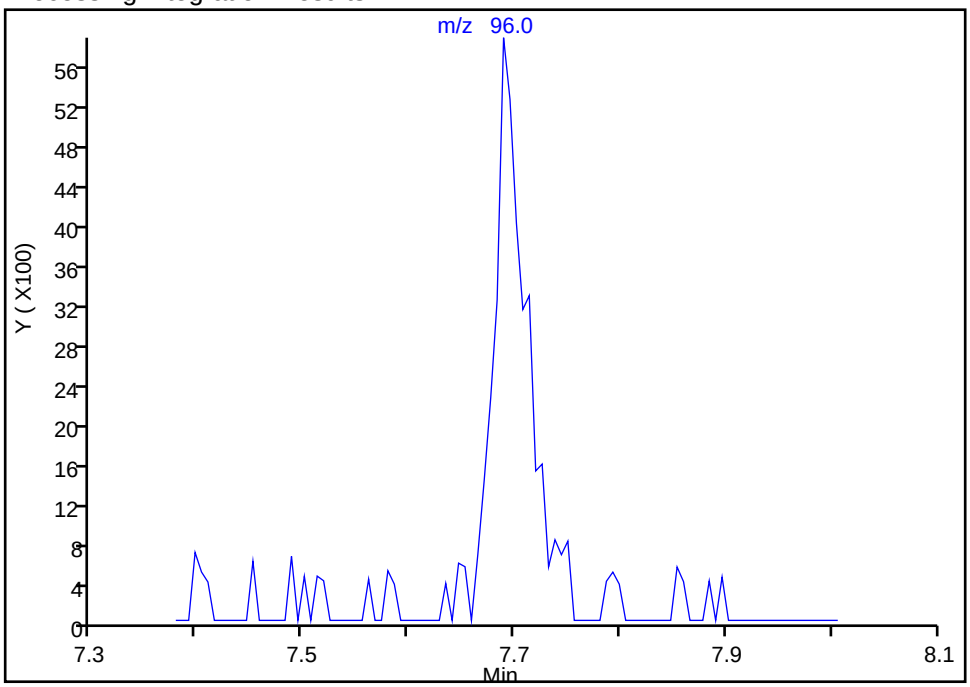
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

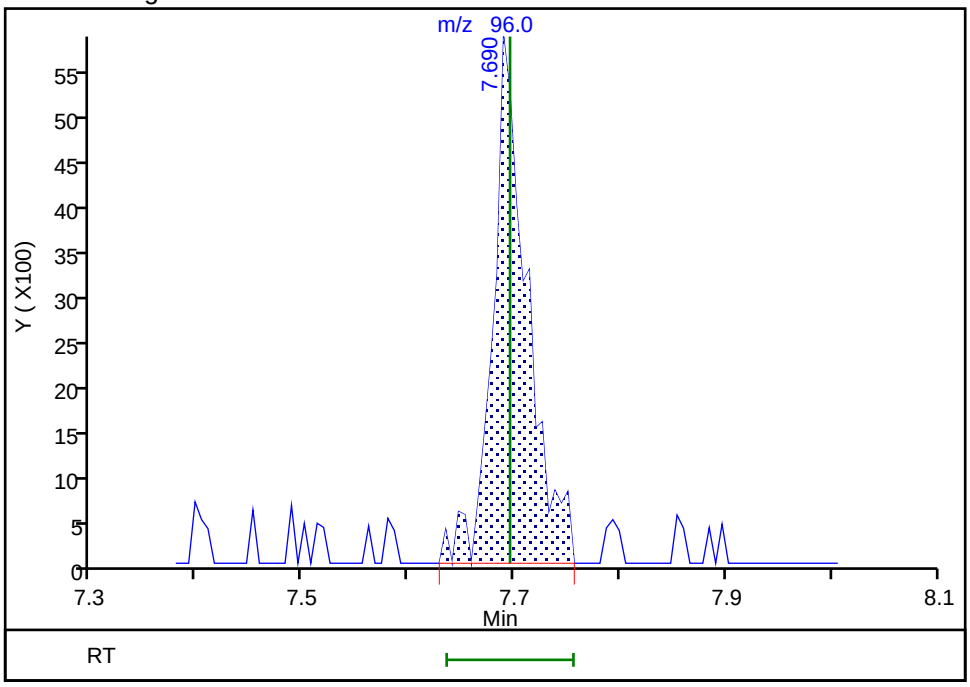
Not Detected
Expected RT: 7.70

Processing Integration Results



Manual Integration Results

RT: 7.69
Area: 13279
Amount: 1.154480
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:23:35
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

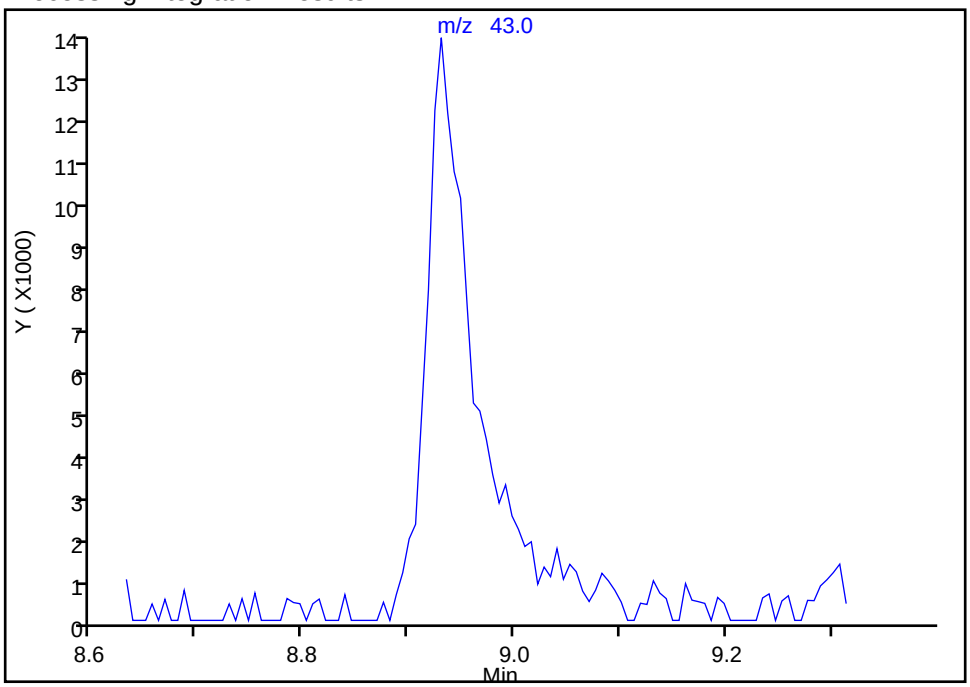
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

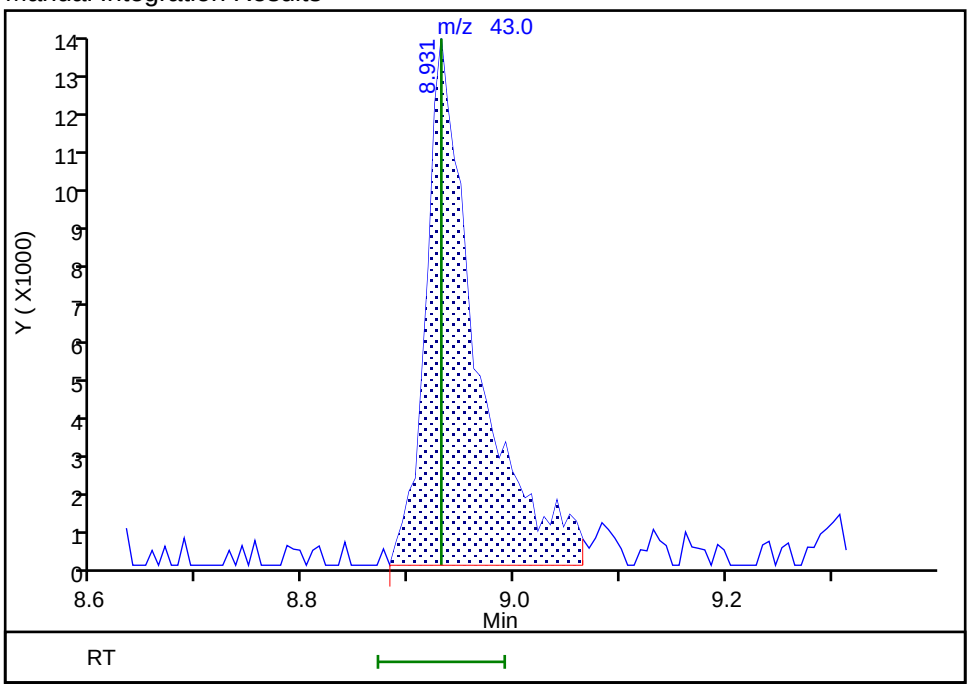
Not Detected
Expected RT: 8.93

Processing Integration Results



Manual Integration Results

RT: 8.93
Area: 43547
Amount: 5.494126
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:23:54
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

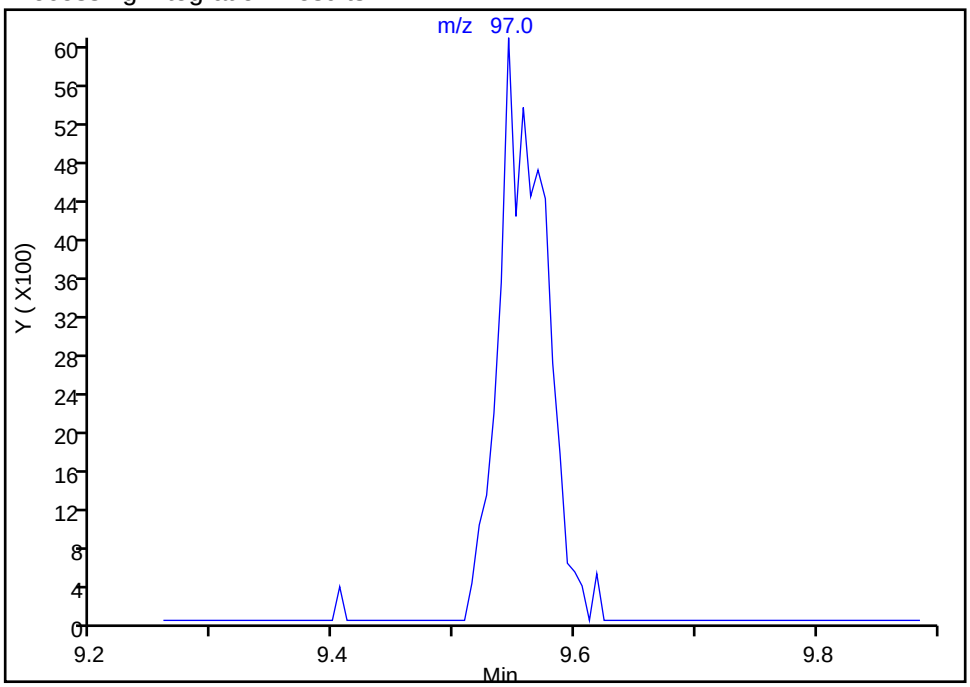
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

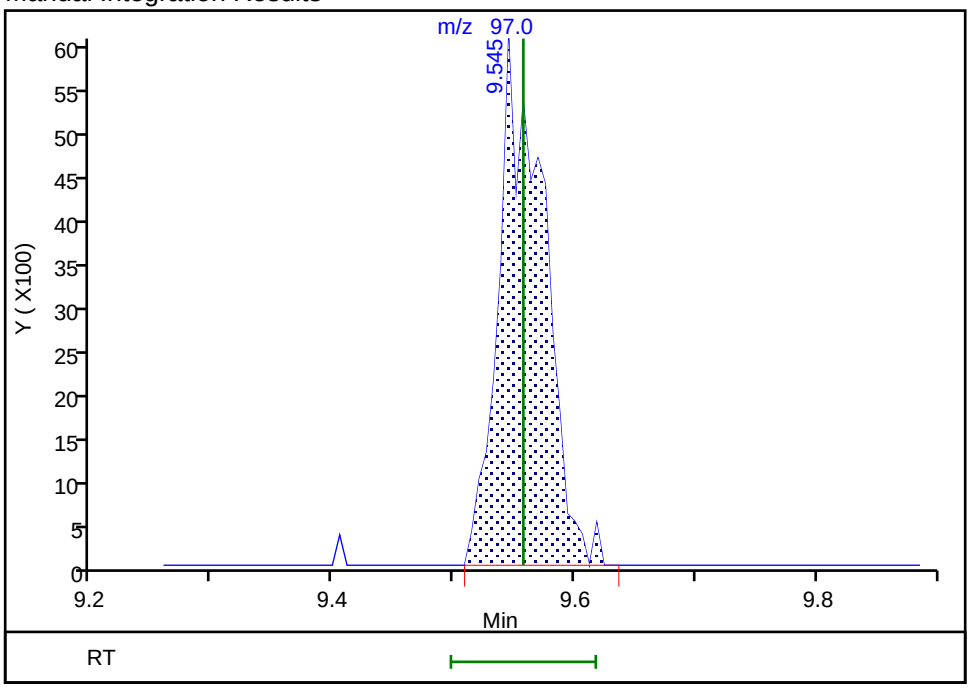
Not Detected
Expected RT: 9.56

Processing Integration Results



Manual Integration Results

RT: 9.55
Area: 16073
Amount: 1.009077
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:25:24
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

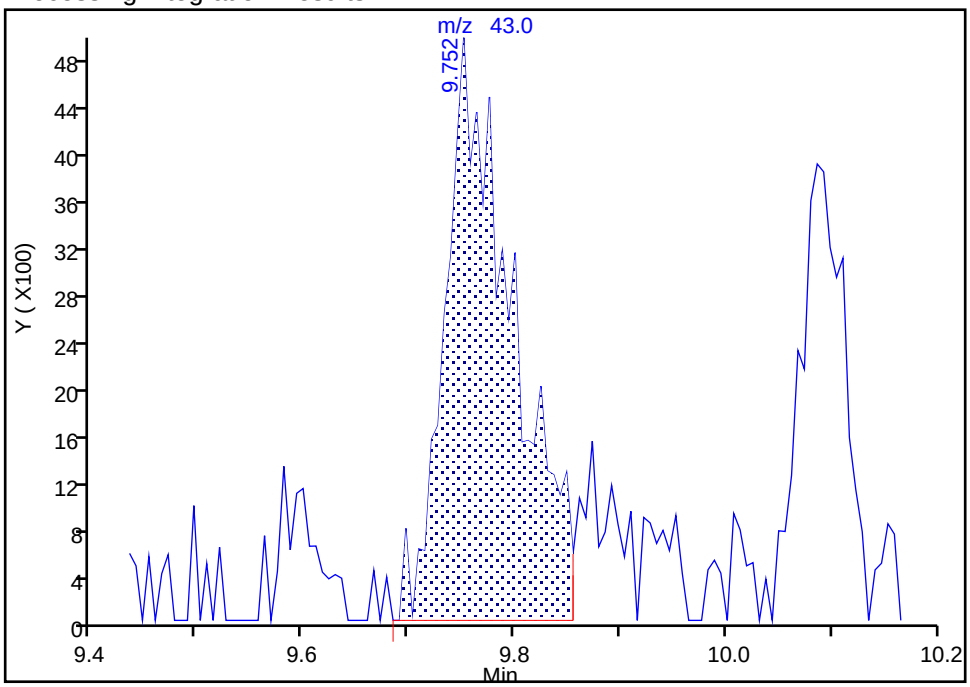
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

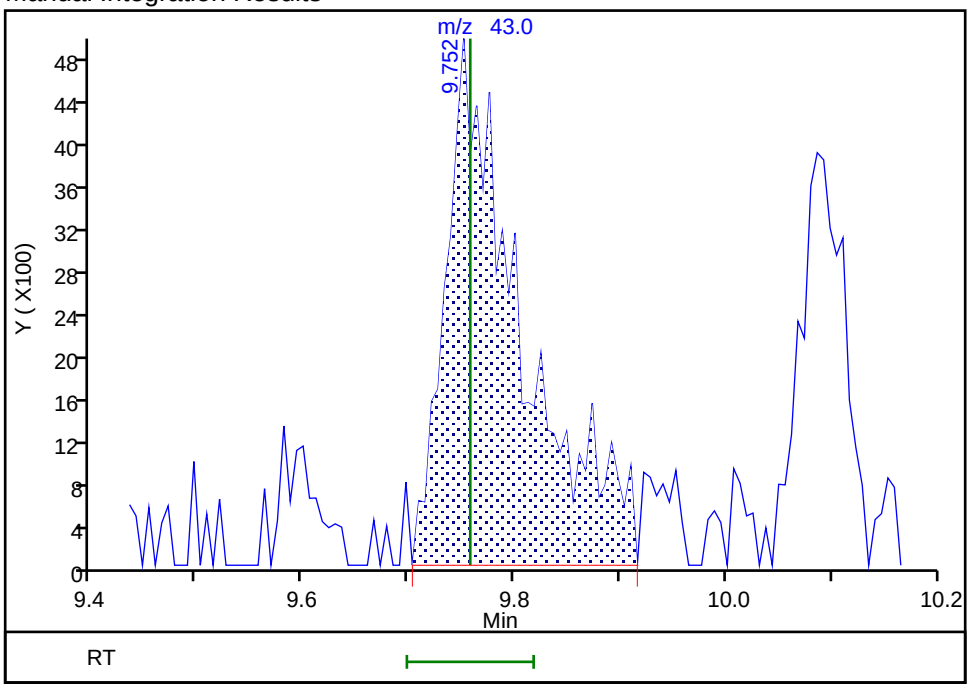
Processing Integration Results

RT: 9.75
Area: 21788
Amount: 24.522506
Amount Units: ug/L



Manual Integration Results

RT: 9.75
Area: 24525
Amount: 27.125526
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:25:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

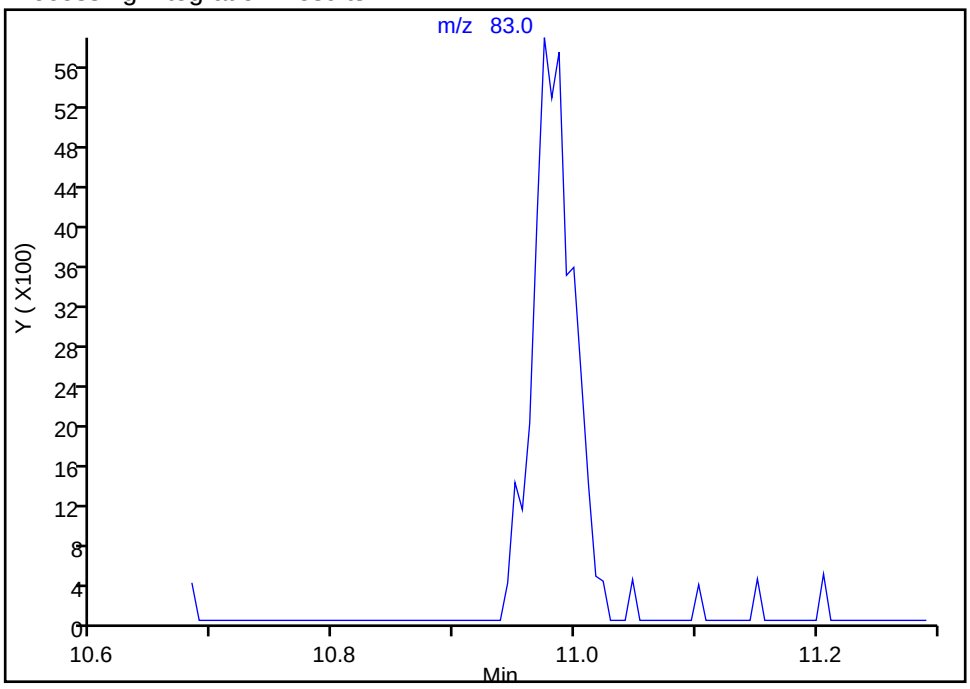
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

64 Methylcyclohexane, CAS: 108-87-2

Signal: 1

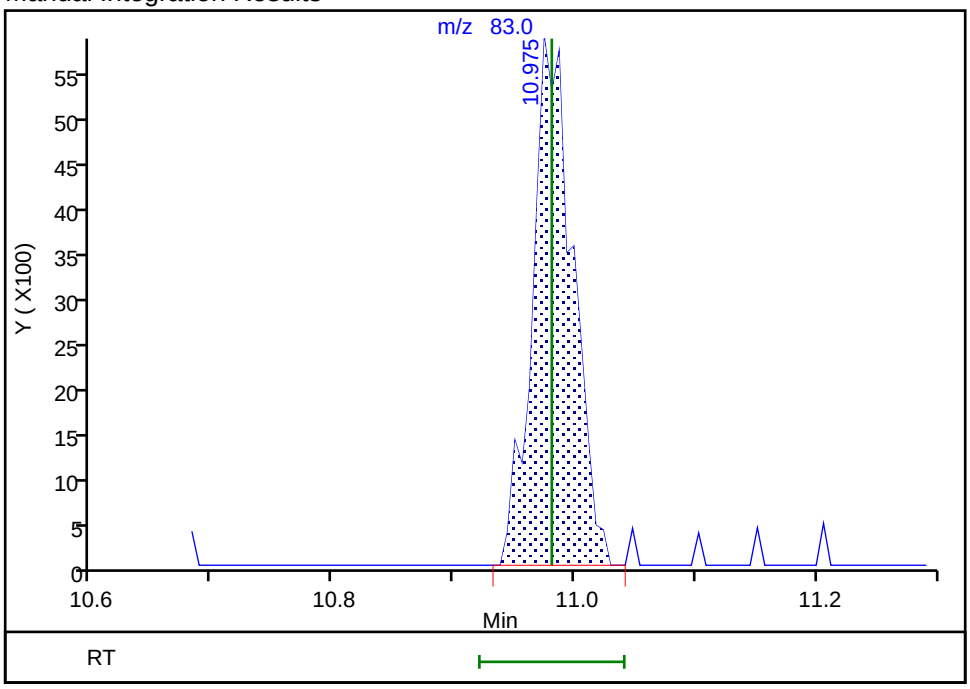
Not Detected
Expected RT: 10.98

Processing Integration Results



Manual Integration Results

RT: 10.97
Area: 13621
Amount: 0.996874
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:26:12
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

TestAmerica Buffalo

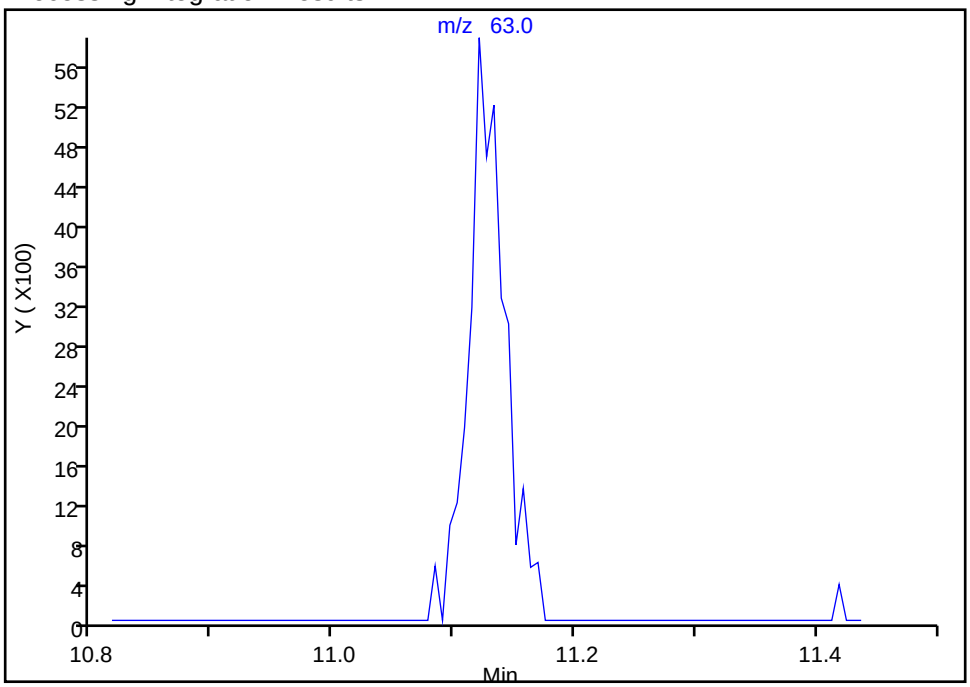
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

63 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

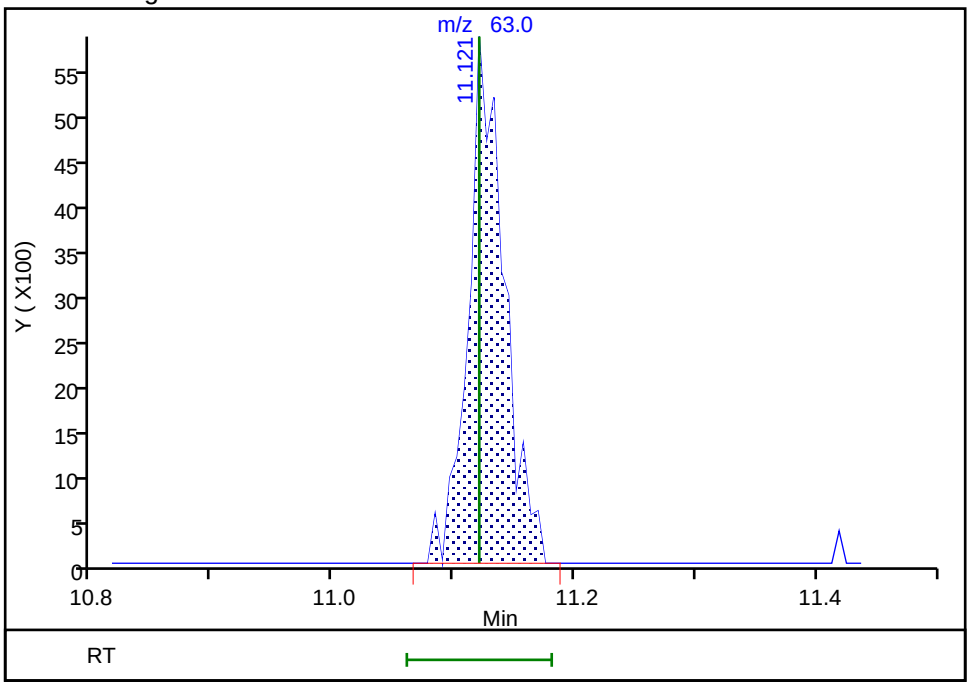
Not Detected
Expected RT: 11.12

Processing Integration Results



Manual Integration Results

RT: 11.12
Area: 12019
Amount: 1.044959
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:26:17
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

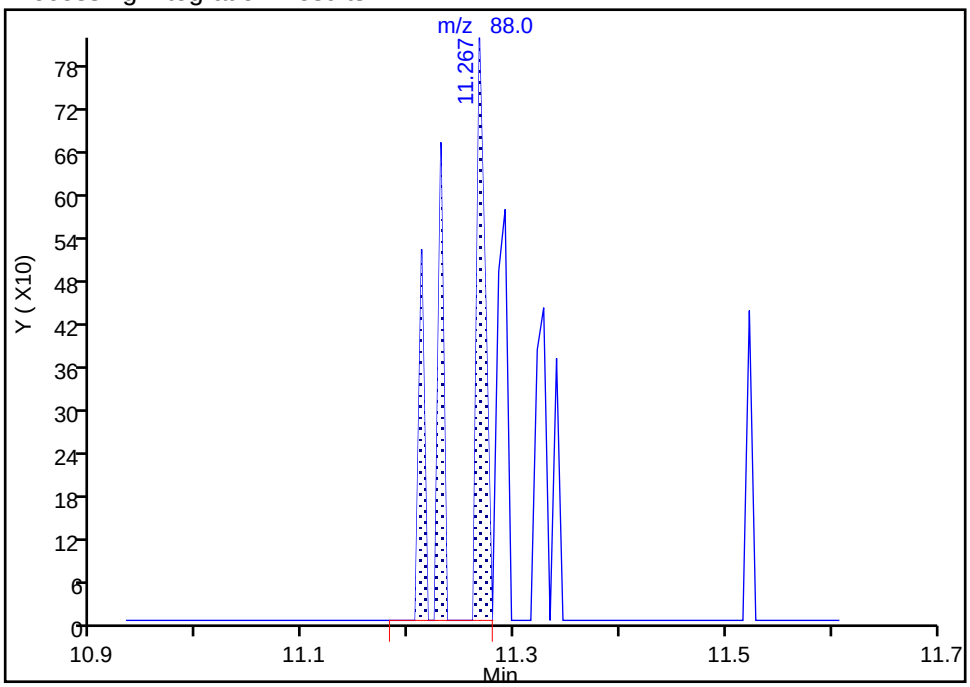
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

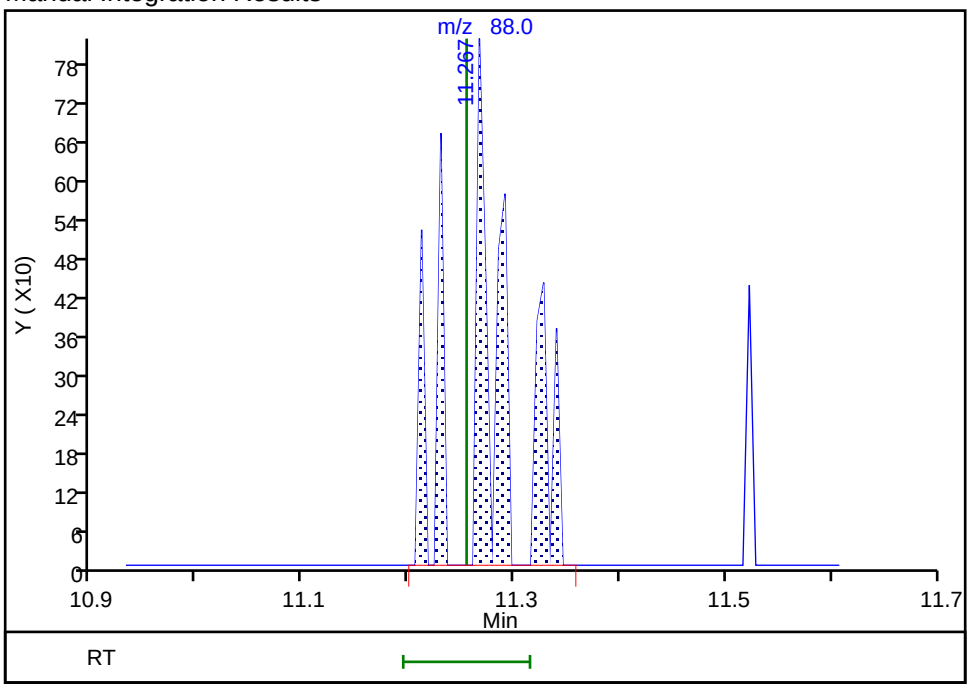
Processing Integration Results

RT: 11.27
Area: 894
Amount: 20.260716
Amount Units: ug/L



Manual Integration Results

RT: 11.27
Area: 1717
Amount: 14.402471
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:26:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

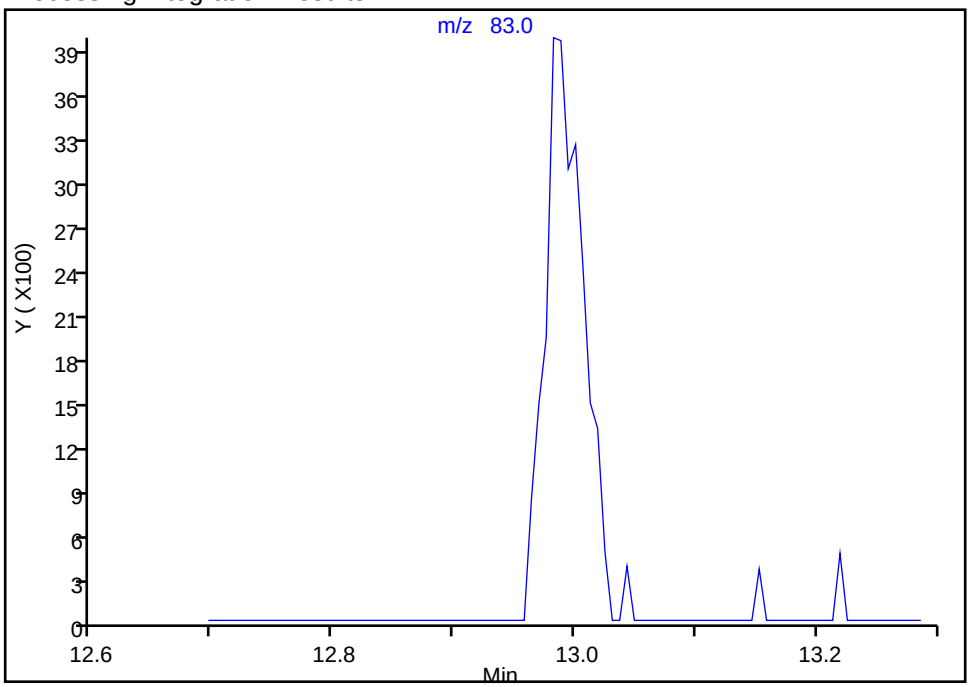
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38545.D
Injection Date: 23-Nov-2018 14:49:30 Instrument ID: HP5973P
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

79 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

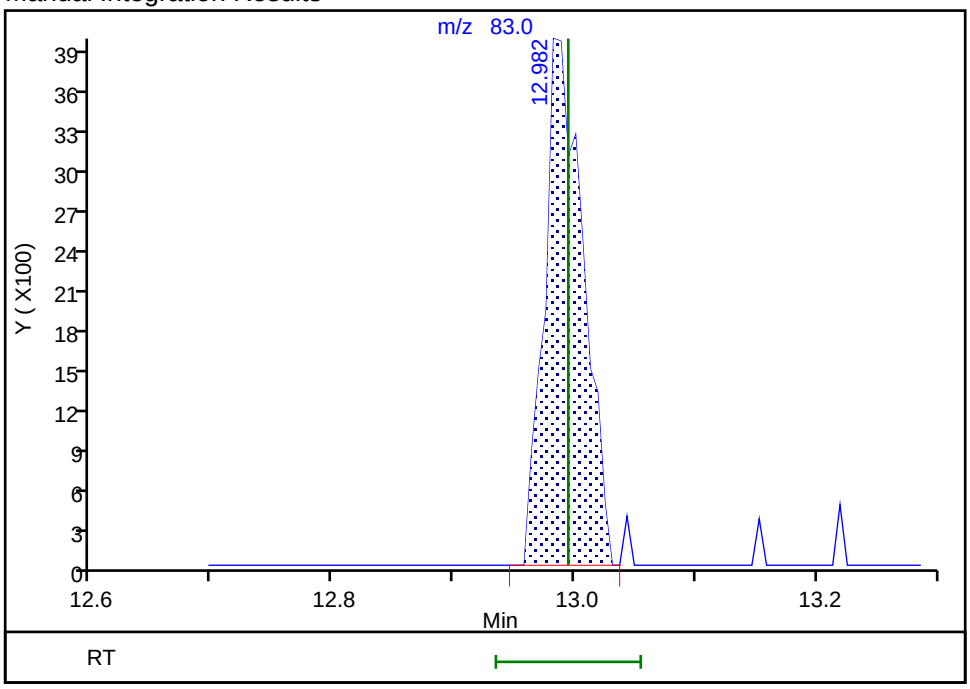
Not Detected
Expected RT: 12.99

Processing Integration Results



Manual Integration Results

RT: 12.98
Area: 8822
Amount: 0.978542
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:27:09
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38546.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Nov-2018 15:17:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0076682-009
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Nov-2018 11:16:45 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: milligana Date: 24-Nov-2018 14:16:06

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	10.336	10.336	0.000	98	177134	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.285	14.284	0.001	86	359915	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.241	17.247	-0.006	96	363131	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.533	0.006	92	250387	25.0	24.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.990	9.989	0.001	0	150057	25.0	25.4	
$ 5 Toluene-d8 (Surr)	98	12.320	12.319	0.001	95	873433	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.787	15.781	0.006	94	281997	25.0	24.9	
10 Dichlorodifluoromethane	85	4.253	4.252	0.001	98	65069	5.00	5.07	
11 Chloromethane	50	4.679	4.672	0.007	98	106221	5.00	5.21	
17 Vinyl chloride	62	4.861	4.855	0.006	98	89225	5.00	5.17	
144 Butadiene	54	4.904	4.897	0.007	97	84787	5.00	5.10	
12 Bromomethane	94	5.482	5.481	0.001	91	58916	5.00	4.87	
13 Chloroethane	64	5.615	5.615	0.000	96	49625	5.00	5.37	
19 Dichlorofluoromethane	67	5.901	5.895	0.006	97	123833	5.00	5.29	
14 Trichlorofluoromethane	101	5.962	5.962	0.000	97	96355	5.00	5.04	
20 Ethyl ether	59	6.315	6.315	0.000	95	48482	5.00	5.15	M
22 Acrolein	56	6.625	6.619	0.006	98	57668	25.0	25.3	
16 1,1,2-Trichloro-1,2,2-trif	101	6.638	6.637	0.001	89	45711	5.00	4.80	
25 1,1-Dichloroethene	96	6.729	6.728	0.001	97	57302	5.00	5.31	M
24 Acetone	43	6.808	6.807	0.001	99	146478	25.0	24.5	M
18 Iodomethane	142	7.021	7.020	0.001	99	98971	5.00	4.99	
27 Carbon disulfide	76	7.124	7.118	0.006	99	158623	5.00	5.25	
30 Methyl acetate	43	7.173	7.172	0.001	98	124072	10.0	10.3	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	85	95930	5.00	4.99	
31 Methylene Chloride	84	7.392	7.385	0.007	98	74780	5.00	5.28	
33 2-Methyl-2-propanol	59	7.416	7.422	-0.006	98	85441	50.0	44.6	
32 Methyl tert-butyl ether	73	7.599	7.598	0.001	96	153809	5.00	4.95	
35 trans-1,2-Dichloroethene	96	7.702	7.696	0.006	95	55961	5.00	4.77	
34 Acrylonitrile	53	7.733	7.726	0.007	97	273976	50.0	52.7	
36 Hexane	57	7.891	7.896	-0.005	95	61620	5.00	4.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.195	8.195	0.000	98	263663	10.0	10.0	
40 1,1-Dichloroethane	63	8.250	8.249	0.001	97	101940	5.00	4.99	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	98	202541	25.0	25.1	
45 2,2-Dichloropropane	77	8.937	8.937	0.000	63	61263	5.00	4.56	
43 cis-1,2-Dichloroethene	96	8.955	8.961	-0.006	82	64268	5.00	4.89	
50 Chlorobromomethane	128	9.290	9.290	0.000	96	33228	5.00	4.91	
51 Tetrahydrofuran	42	9.302	9.302	0.000	89	51780	10.0	10.5	
49 Chloroform	83	9.320	9.320	0.000	95	101067	5.00	5.12	
52 1,1,1-Trichloroethane	97	9.558	9.557	0.001	97	83624	5.00	5.15	
54 Cyclohexane	56	9.600	9.600	0.000	95	76382	5.00	4.91	
56 1,1-Dichloropropene	75	9.734	9.734	0.000	93	72287	5.00	5.04	
55 Carbon tetrachloride	117	9.752	9.746	0.006	91	72168	5.00	4.89	
53 Isobutyl alcohol	43	9.758	9.758	0.000	85	112108	125.0	121.6	
57 Benzene	78	10.032	10.032	0.000	97	213866	5.00	5.13	
60 1,2-Dichloroethane	62	10.087	10.087	0.000	97	84913	5.00	4.97	
59 n-Heptane	43	10.093	10.093	0.000	81	49159	5.00	4.86	
62 Trichloroethene	95	10.780	10.786	-0.006	93	56410	5.00	4.81	
64 Methylcyclohexane	83	10.981	10.981	0.000	94	70160	5.00	5.04	
63 1,2-Dichloropropane	63	11.127	11.121	0.006	92	59236	5.00	5.05	
68 1,4-Dioxane	88	11.261	11.255	0.006	27	11017	100.0	93.2	M
69 Dibromomethane	93	11.322	11.328	-0.006	94	42752	5.00	5.02	
70 Dichlorobromomethane	83	11.462	11.455	0.007	97	74123	5.00	4.87	
71 2-Chloroethyl vinyl ether	63	11.711	11.711	0.000	90	18068	5.00	4.15	
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	91	86340	5.00	4.94	
75 4-Methyl-2-pentanone (MIBK	43	12.094	12.094	0.000	99	388635	25.0	26.8	
76 Toluene	92	12.411	12.417	-0.006	97	137701	5.00	5.08	
77 Ethyl methacrylate	69	12.636	12.636	0.000	91	78640	5.00	5.06	
78 trans-1,3-Dichloropropene	75	12.709	12.702	0.007	96	77760	5.00	4.82	
79 1,1,2-Trichloroethane	83	12.989	12.994	-0.005	92	46571	5.00	5.21	
80 Tetrachloroethene	166	13.141	13.140	0.001	93	58512	5.00	5.22	
83 2-Hexanone	43	13.183	13.183	0.000	99	301476	25.0	26.4	
82 1,3-Dichloropropane	76	13.226	13.226	0.000	95	90193	5.00	5.16	
81 Chlorodibromomethane	129	13.567	13.566	0.001	88	59686	5.00	4.91	
85 Ethylene Dibromide	107	13.767	13.767	0.000	99	55408	5.00	4.85	
87 Chlorobenzene	112	14.327	14.327	0.000	99	161249	5.00	5.16	
89 Ethylbenzene	91	14.370	14.369	0.001	98	251453	5.00	5.27	
88 1,1,1,2-Tetrachloroethane	131	14.406	14.406	0.000	94	55438	5.00	4.77	
90 m-Xylene & p-Xylene	106	14.504	14.503	0.001	0	97093	5.00	5.09	
93 o-Xylene	106	15.057	15.057	0.000	97	93231	5.00	4.88	
94 Styrene	104	15.082	15.081	0.001	95	164588	5.00	5.11	
92 Bromoform	173	15.471	15.464	0.007	93	35233	5.00	4.30	
95 Isopropylbenzene	105	15.483	15.483	0.000	97	230315	5.00	5.37	
97 1,1,2,2-Tetrachloroethane	83	15.958	15.957	0.001	96	76027	5.00	5.33	
98 trans-1,4-Dichloro-2-buten	53	16.006	16.006	0.000	42	16471	5.00	4.12	
99 N-Propylbenzene	91	16.012	16.012	0.000	99	271680	5.00	5.46	
100 Bromobenzene	156	16.031	16.030	0.001	92	71339	5.00	5.20	
101 1,2,3-Trichloropropane	110	16.049	16.048	0.001	83	21697	5.00	5.06	
102 1,3,5-Trimethylbenzene	105	16.201	16.201	0.000	94	188355	5.00	5.30	
103 2-Chlorotoluene	126	16.219	16.219	0.000	95	62703	5.00	5.14	
105 4-Chlorotoluene	126	16.347	16.347	0.000	95	62252	5.00	5.02	
106 tert-Butylbenzene	134	16.639	16.639	0.000	93	40821	5.00	5.30	
107 1,2,4-Trimethylbenzene	105	16.706	16.699	0.007	97	197821	5.00	5.31	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.907	16.906	0.001	95	212522	5.00	5.19	
112 4-Isopropyltoluene	119	17.053	17.052	0.001	97	181430	5.00	5.30	
110 1,3-Dichlorobenzene	146	17.168	17.174	-0.006	98	119416	5.00	5.11	
111 1,4-Dichlorobenzene	146	17.278	17.277	0.001	95	125021	5.00	5.16	
115 n-Butylbenzene	91	17.570	17.569	0.001	98	157781	5.00	5.23	
116 1,2-Dichlorobenzene	146	17.770	17.770	0.000	97	120224	5.00	5.26	
117 1,2-Dibromo-3-Chloropropan	75	18.805	18.804	0.001	85	14357	5.00	4.74	
119 1,2,4-Trichlorobenzene	180	19.906	19.905	0.001	91	79232	5.00	5.21	
120 Hexachlorobutadiene	225	20.027	20.027	0.000	94	25043	5.00	5.39	
121 Naphthalene	128	20.344	20.343	0.001	97	232190	5.00	5.22	
122 1,2,3-Trichlorobenzene	180	20.721	20.721	0.000	94	76311	5.00	5.19	
S 126 Xylenes, Total	1				0			9.97	
S 123 1,2-Dichloroethene, Total	1				0			9.66	
S 124 1,3-Dichloropropene, Total	1				0			9.75	
S 125 Total BTEX	1				0			25.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00140	Amount Added:	5.00	Units: uL	
GAS CORP mix_00313	Amount Added:	5.00	Units: uL	
P 8260 IS_00340	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00313	Amount Added:	1.25	Units: uL	Run Reagent

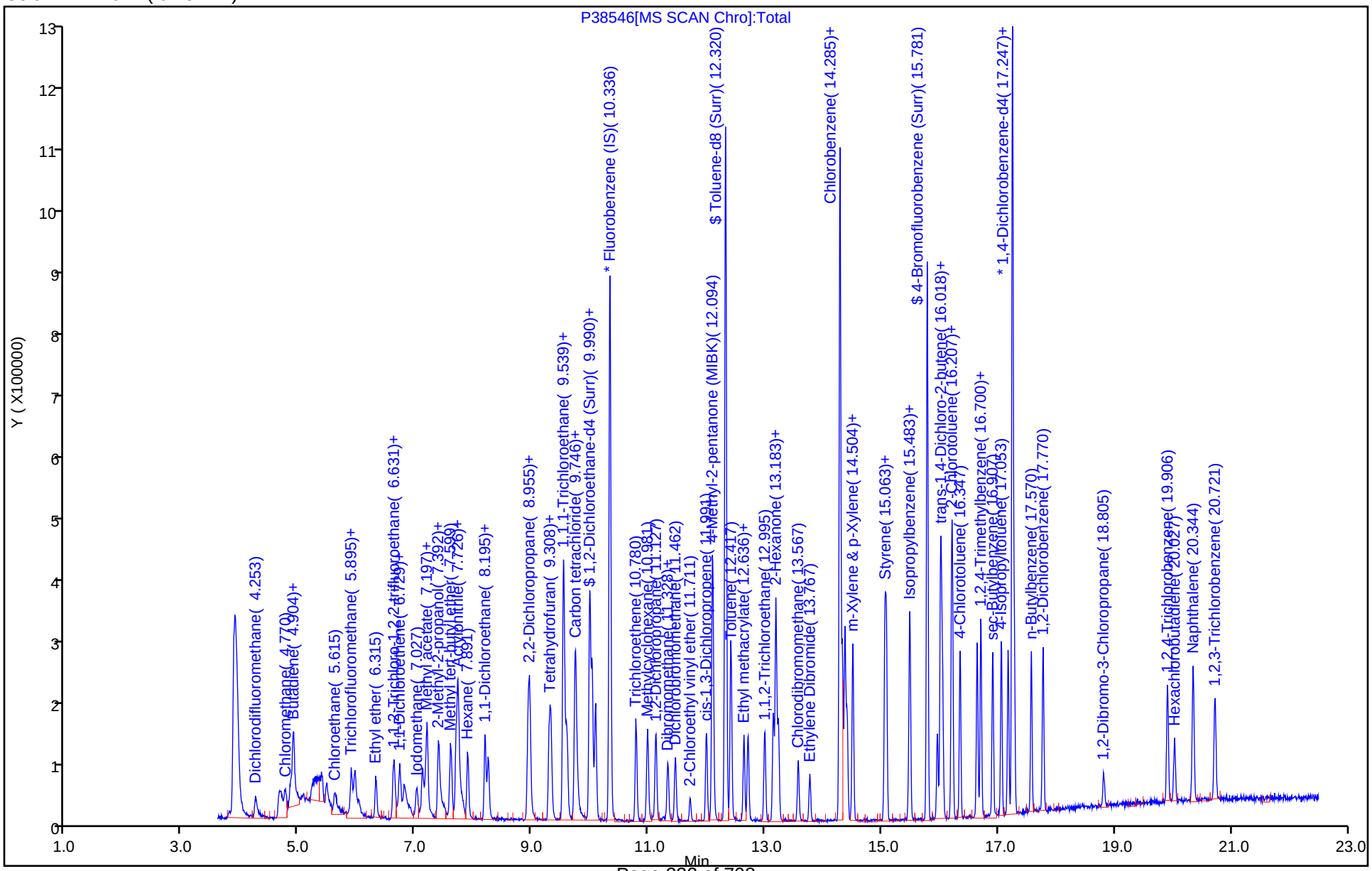
Report Date: 25-Nov-2018 11:16:46 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38546.D

Injection Date:	23-Nov-2018 15:17:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC 3			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

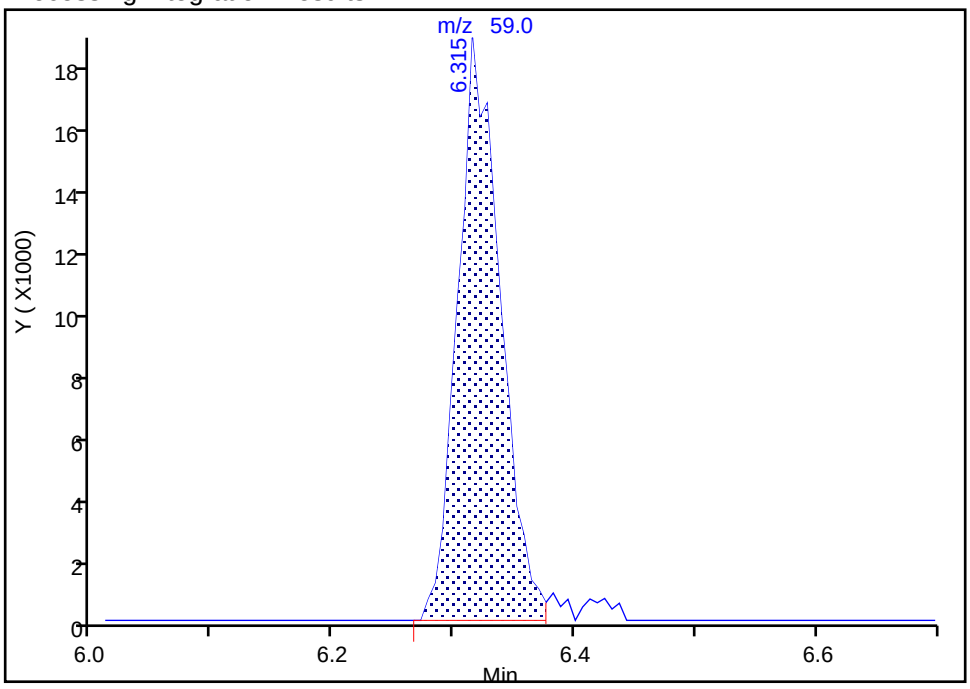
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38546.D
Injection Date: 23-Nov-2018 15:17:30 Instrument ID: HP5973P
Lims ID: IC 3
Client ID:
Operator ID: RF ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

20 Ethyl ether, CAS: 60-29-7

Signal: 1

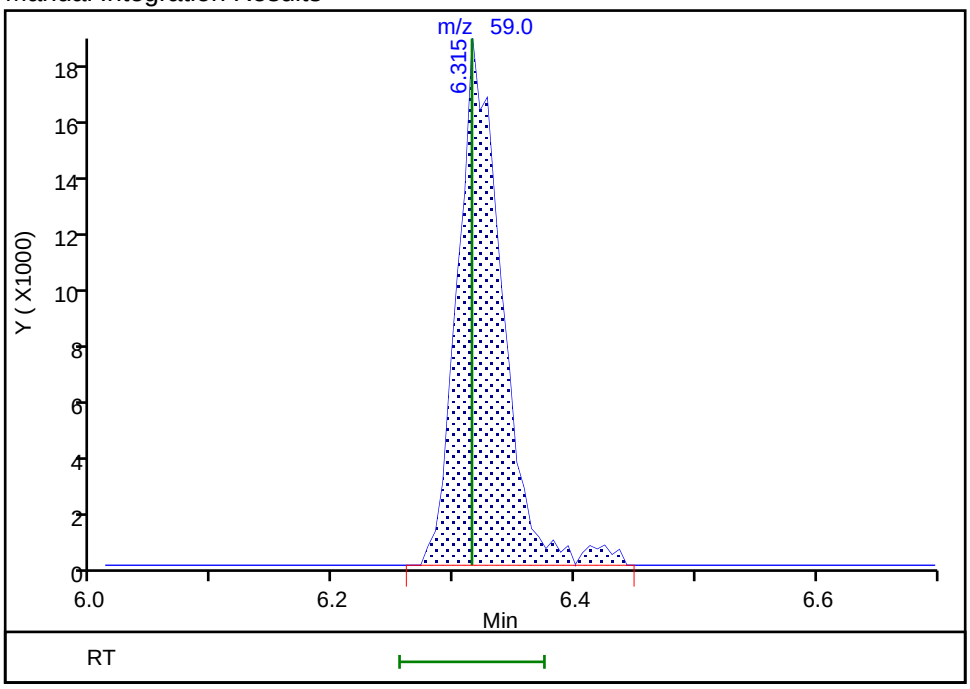
Processing Integration Results

RT: 6.32
Area: 46516
Amount: 4.971515
Amount Units: ug/L



Manual Integration Results

RT: 6.32
Area: 48482
Amount: 5.150714
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:16:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

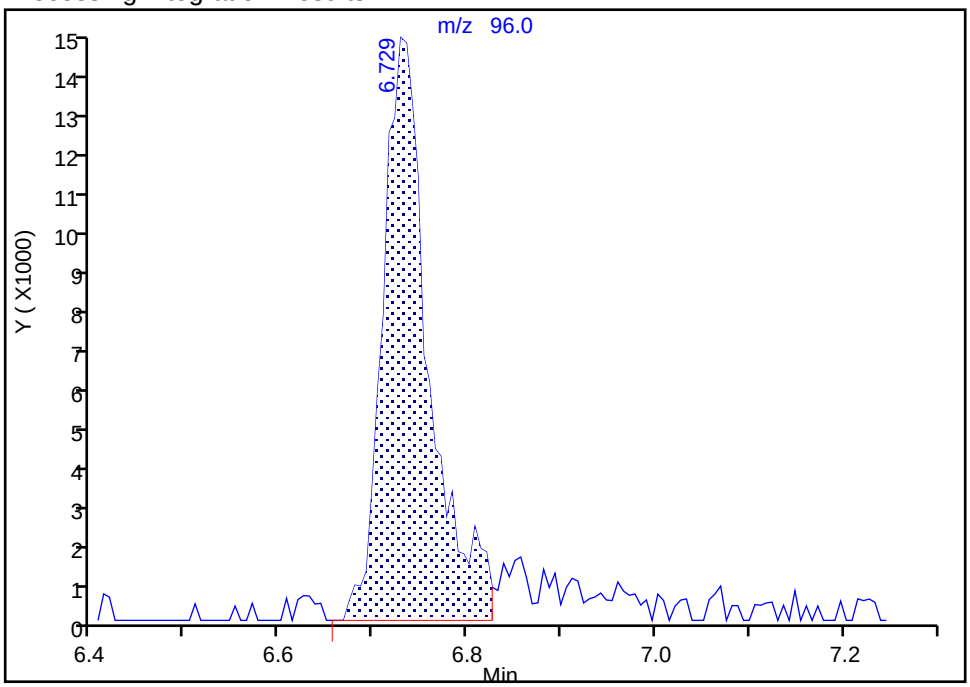
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38546.D
Injection Date: 23-Nov-2018 15:17:30 Instrument ID: HP5973P
Lims ID: IC 3
Client ID:
Operator ID: RF ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

25 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

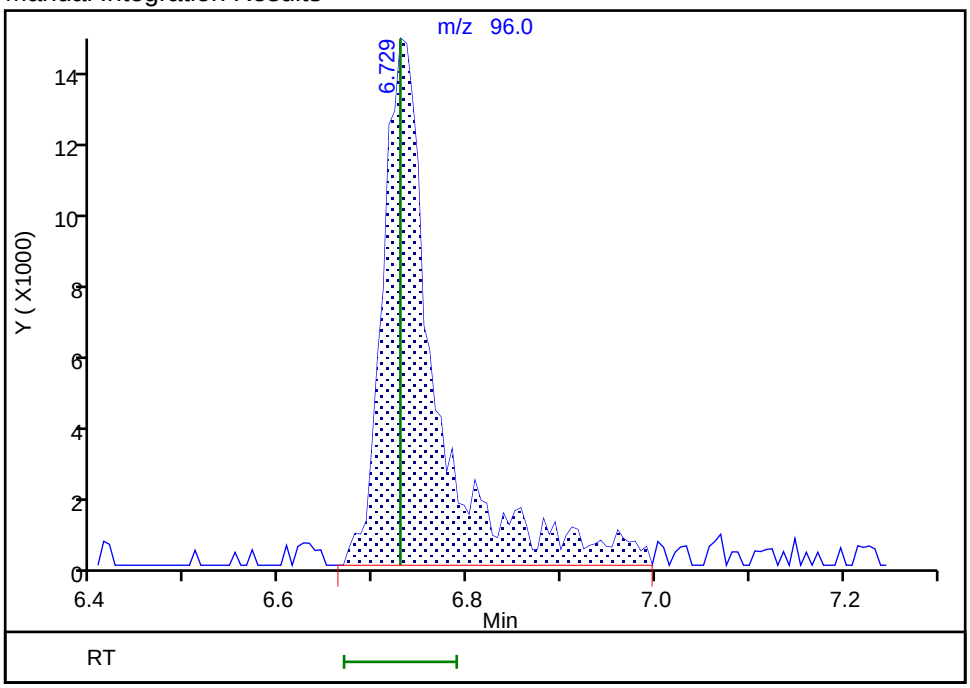
Processing Integration Results

RT: 6.73
Area: 49358
Amount: 4.775935
Amount Units: ug/L



Manual Integration Results

RT: 6.73
Area: 57302
Amount: 5.313703
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:17:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

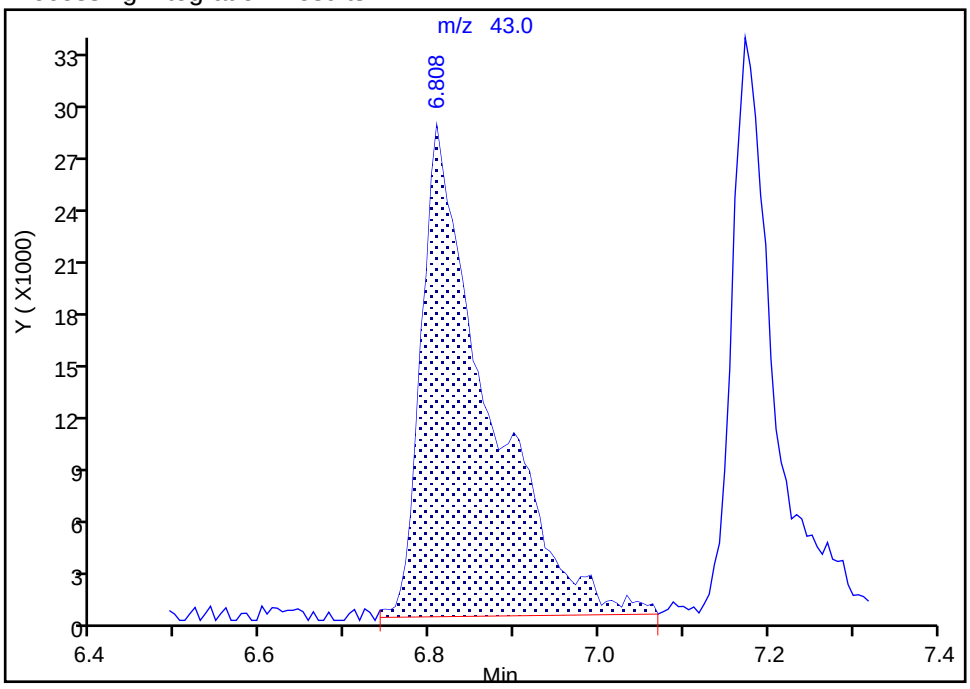
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38546.D
Injection Date: 23-Nov-2018 15:17:30 Instrument ID: HP5973P
Lims ID: IC 3
Client ID:
Operator ID: RF ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

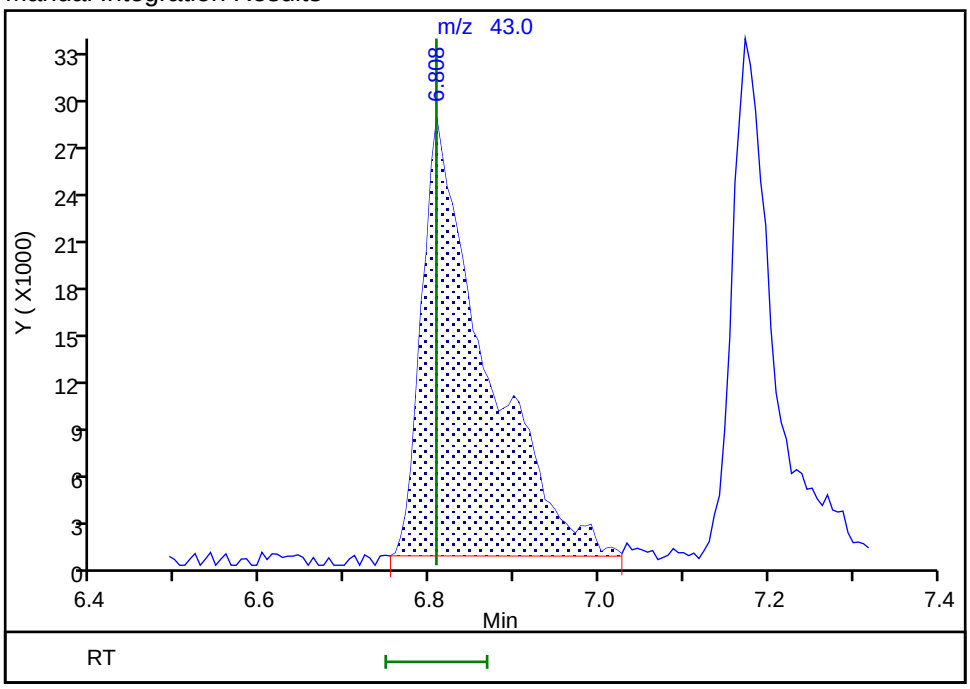
Processing Integration Results

RT: 6.81
Area: 153851
Amount: 27.637326
Amount Units: ug/L



Manual Integration Results

RT: 6.81
Area: 146478
Amount: 24.507272
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:18:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

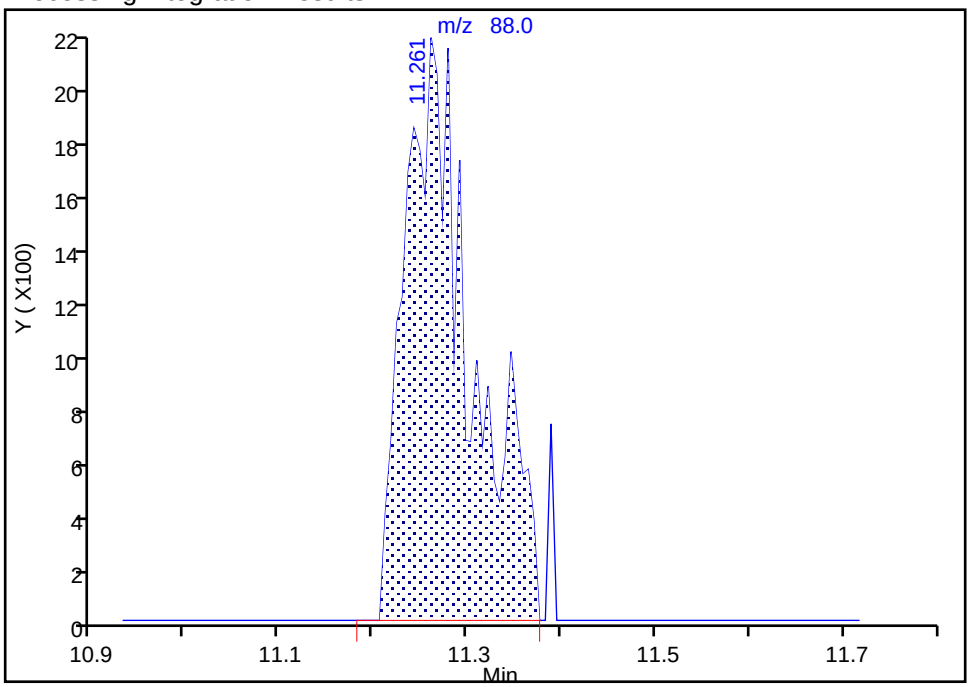
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38546.D
Injection Date: 23-Nov-2018 15:17:30 Instrument ID: HP5973P
Lims ID: IC 3
Client ID:
Operator ID: RF ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

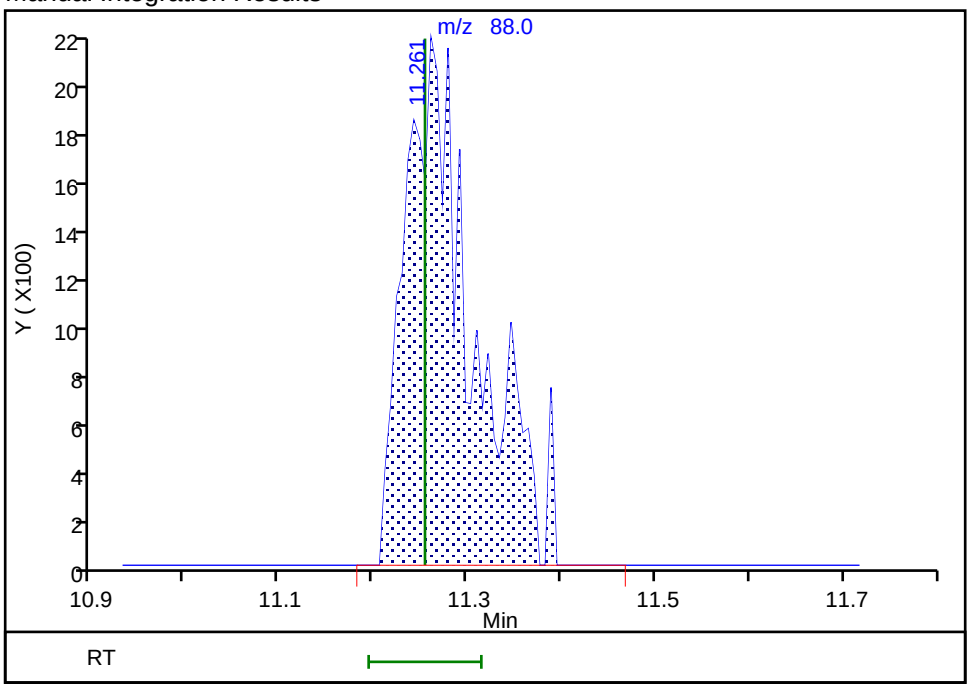
Processing Integration Results

RT: 11.26
Area: 10748
Amount: 95.380787
Amount Units: ug/L



Manual Integration Results

RT: 11.26
Area: 11017
Amount: 93.177513
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:19:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Report Date: 25-Nov-2018 11:16:50 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38547.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Nov-2018 15:44:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0076682-010
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Nov-2018 11:16:49 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: milligana Date: 24-Nov-2018 14:12:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.330	10.330	0.000	99	175056	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.284	14.284	0.000	86	365815	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.247	0.000	95	373783	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.533	9.533	0.000	92	256977	25.0	25.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.989	0.000	0	149672	25.0	25.6	
$ 5 Toluene-d8 (Surr)	98	12.319	12.319	0.000	94	874002	25.0	24.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	93	286117	25.0	24.9	
10 Dichlorodifluoromethane	85	4.247	4.247	0.000	98	129512	10.0	10.2	
11 Chloromethane	50	4.672	4.672	0.000	99	200740	10.0	9.97	
17 Vinyl chloride	62	4.861	4.861	0.000	98	174351	10.0	10.2	
144 Butadiene	54	4.897	4.897	0.000	98	159793	10.0	9.73	
12 Bromomethane	94	5.469	5.469	0.000	93	123024	10.0	10.3	
13 Chloroethane	64	5.615	5.615	0.000	96	94774	10.0	10.4	
19 Dichlorofluoromethane	67	5.895	5.895	0.000	97	235141	10.0	10.2	
14 Trichlorofluoromethane	101	5.962	5.962	0.000	98	191117	10.0	10.1	
20 Ethyl ether	59	6.315	6.315	0.000	95	99784	10.0	10.7	
22 Acrolein	56	6.619	6.619	0.000	99	118802	50.0	52.7	
16 1,1,2-Trichloro-1,2,2-trif	101	6.631	6.631	0.000	89	99227	10.0	10.5	M
25 1,1-Dichloroethene	96	6.729	6.729	0.000	95	106115	10.0	9.96	
24 Acetone	43	6.808	6.808	0.000	99	284832	50.0	48.2	
18 Iodomethane	142	7.027	7.027	0.000	99	210493	10.0	10.7	
27 Carbon disulfide	76	7.118	7.118	0.000	99	310366	10.0	10.4	
30 Methyl acetate	43	7.173	7.173	0.000	99	231203	20.0	19.4	
28 3-Chloro-1-propene	41	7.191	7.191	0.000	84	188117	10.0	9.90	
31 Methylene Chloride	84	7.392	7.392	0.000	99	149141	10.0	11.5	
33 2-Methyl-2-propanol	59	7.410	7.410	0.000	98	188696	100.0	99.6	
32 Methyl tert-butyl ether	73	7.599	7.599	0.000	99	328583	10.0	10.7	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	96	113844	10.0	9.82	
34 Acrylonitrile	53	7.726	7.726	0.000	98	536301	100.0	104.4	
36 Hexane	57	7.897	7.897	0.000	95	122580	10.0	9.76	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.189	8.189	0.000	97	569771	20.0	21.9	
40 1,1-Dichloroethane	63	8.250	8.250	0.000	97	213627	10.0	10.6	
44 2-Butanone (MEK)	43	8.925	8.925	0.000	99	411734	50.0	51.6	
45 2,2-Dichloropropane	77	8.943	8.943	0.000	64	142722	10.0	10.7	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	85	135829	10.0	10.5	
50 Chlorobromomethane	128	9.290	9.290	0.000	97	70971	10.0	10.6	
51 Tetrahydrofuran	42	9.296	9.296	0.000	92	102324	20.0	21.0	
49 Chloroform	83	9.326	9.326	0.000	95	209968	10.0	10.8	
52 1,1,1-Trichloroethane	97	9.551	9.551	0.000	98	171450	10.0	10.7	
54 Cyclohexane	56	9.594	9.594	0.000	94	157731	10.0	10.3	
56 1,1-Dichloropropene	75	9.734	9.734	0.000	89	148599	10.0	10.5	
55 Carbon tetrachloride	117	9.752	9.752	0.000	93	147054	10.0	10.1	
53 Isobutyl alcohol	43	9.746	9.746	0.000	89	223548	250.0	245.4	M
57 Benzene	78	10.026	10.026	0.000	97	443821	10.0	10.8	
60 1,2-Dichloroethane	62	10.087	10.087	0.000	96	176598	10.0	10.5	
59 n-Heptane	43	10.093	10.093	0.000	92	99088	10.0	9.91	
62 Trichloroethene	95	10.780	10.780	0.000	95	121796	10.0	10.5	
64 Methylcyclohexane	83	10.981	10.981	0.000	94	141064	10.0	10.2	
63 1,2-Dichloropropane	63	11.121	11.121	0.000	89	118356	10.0	10.2	
68 1,4-Dioxane	88	11.243	11.243	0.000	96	24001	200.0	199.7	
69 Dibromomethane	93	11.334	11.334	0.000	95	87459	10.0	10.4	
70 Dichlorobromomethane	83	11.462	11.462	0.000	97	164899	10.0	11.0	
71 2-Chloroethyl vinyl ether	63	11.711	11.711	0.000	92	50906	10.0	11.8	
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	91	193197	10.0	11.2	
75 4-Methyl-2-pentanone (MIBK	43	12.094	12.094	0.000	99	808884	50.0	54.8	
76 Toluene	92	12.417	12.417	0.000	97	282296	10.0	10.2	
77 Ethyl methacrylate	69	12.636	12.636	0.000	89	164207	10.0	10.4	
78 trans-1,3-Dichloropropene	75	12.709	12.709	0.000	98	174348	10.0	10.6	
79 1,1,2-Trichloroethane	83	12.995	12.995	0.000	93	92503	10.0	10.2	
80 Tetrachloroethene	166	13.141	13.141	0.000	96	124535	10.0	10.9	
83 2-Hexanone	43	13.183	13.183	0.000	99	620467	50.0	53.4	
82 1,3-Dichloropropane	76	13.226	13.226	0.000	94	186616	10.0	10.5	
81 Chlorodibromomethane	129	13.567	13.567	0.000	89	127664	10.0	10.3	
85 Ethylene Dibromide	107	13.767	13.767	0.000	96	121119	10.0	10.4	
87 Chlorobenzene	112	14.327	14.327	0.000	98	326208	10.0	10.3	
89 Ethylbenzene	91	14.370	14.370	0.000	97	519980	10.0	10.7	
88 1,1,1,2-Tetrachloroethane	131	14.406	14.406	0.000	94	120679	10.0	10.2	
90 m-Xylene & p-Xylene	106	14.503	14.503	0.000	0	200685	10.0	10.3	
93 o-Xylene	106	15.057	15.057	0.000	97	195855	10.0	10.1	
94 Styrene	104	15.081	15.081	0.000	96	343442	10.0	10.5	
92 Bromoform	173	15.471	15.471	0.000	92	79727	10.0	9.58	
95 Isopropylbenzene	105	15.483	15.483	0.000	97	469090	10.0	10.6	
97 1,1,2,2-Tetrachloroethane	83	15.957	15.957	0.000	95	154299	10.0	10.5	
98 trans-1,4-Dichloro-2-buten	53	16.006	16.006	0.000	42	44754	10.0	10.9	
99 N-Propylbenzene	91	16.012	16.012	0.000	98	557002	10.0	10.9	
100 Bromobenzene	156	16.030	16.030	0.000	93	149475	10.0	10.6	
101 1,2,3-Trichloropropane	110	16.049	16.049	0.000	81	46037	10.0	10.4	
102 1,3,5-Trimethylbenzene	105	16.201	16.201	0.000	95	389498	10.0	10.7	
103 2-Chlorotoluene	126	16.219	16.219	0.000	95	129191	10.0	10.3	
105 4-Chlorotoluene	126	16.347	16.347	0.000	97	138430	10.0	10.9	
106 tert-Butylbenzene	134	16.639	16.639	0.000	94	80887	10.0	10.2	
107 1,2,4-Trimethylbenzene	105	16.700	16.700	0.000	98	410854	10.0	10.7	

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	16.906	16.906	0.000	95	433133	10.0	10.3	
112 4-Isopropyltoluene	119	17.052	17.052	0.000	97	374016	10.0	10.6	
110 1,3-Dichlorobenzene	146	17.174	17.174	0.000	99	254930	10.0	10.6	
111 1,4-Dichlorobenzene	146	17.278	17.278	0.000	95	259930	10.0	10.4	
115 n-Butylbenzene	91	17.570	17.570	0.000	98	326064	10.0	10.5	
116 1,2-Dichlorobenzene	146	17.770	17.770	0.000	97	243034	10.0	10.3	
117 1,2-Dibromo-3-Chloropropan	75	18.811	18.811	0.000	83	29755	10.0	9.53	
119 1,2,4-Trichlorobenzene	180	19.906	19.906	0.000	94	157564	10.0	10.1	
120 Hexachlorobutadiene	225	20.033	20.033	0.000	96	47248	10.0	9.89	
121 Naphthalene	128	20.350	20.350	0.000	97	470583	10.0	10.3	
122 1,2,3-Trichlorobenzene	180	20.721	20.721	0.000	95	149690	10.0	9.90	
S 126 Xylenes, Total	1				0			20.4	
S 123 1,2-Dichloroethene, Total	1				0			20.3	
S 124 1,3-Dichloropropene, Total	1				0			21.8	
S 125 Total BTEX	1				0			52.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00140	Amount Added:	5.00	Units: uL	
GAS CORP mix_00313	Amount Added:	5.00	Units: uL	
P 8260 IS_00340	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00313	Amount Added:	1.25	Units: uL	Run Reagent

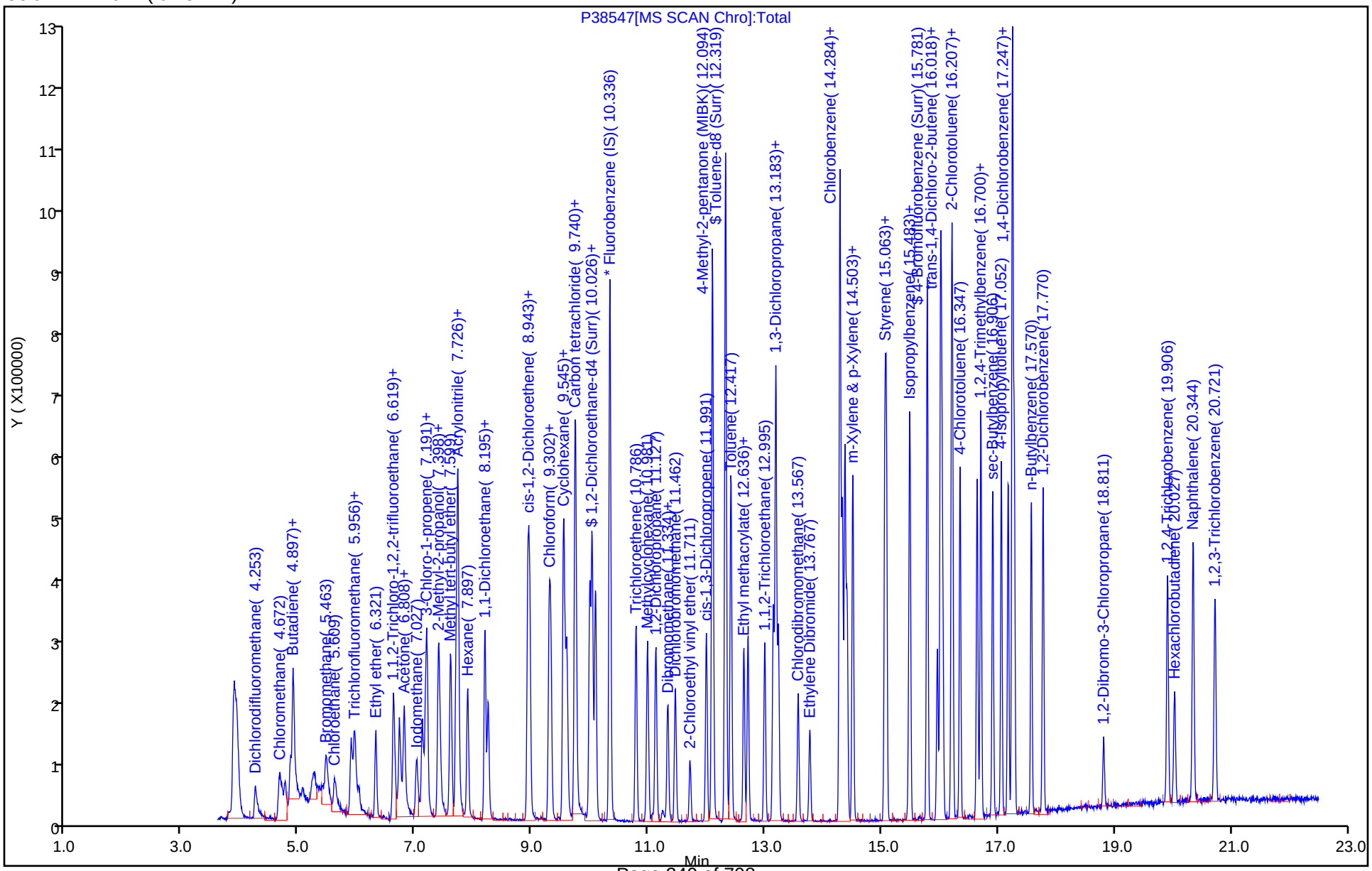
Report Date: 25-Nov-2018 11:16:51 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38547.D

Injection Date:	23-Nov-2018 15:44:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC 4			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

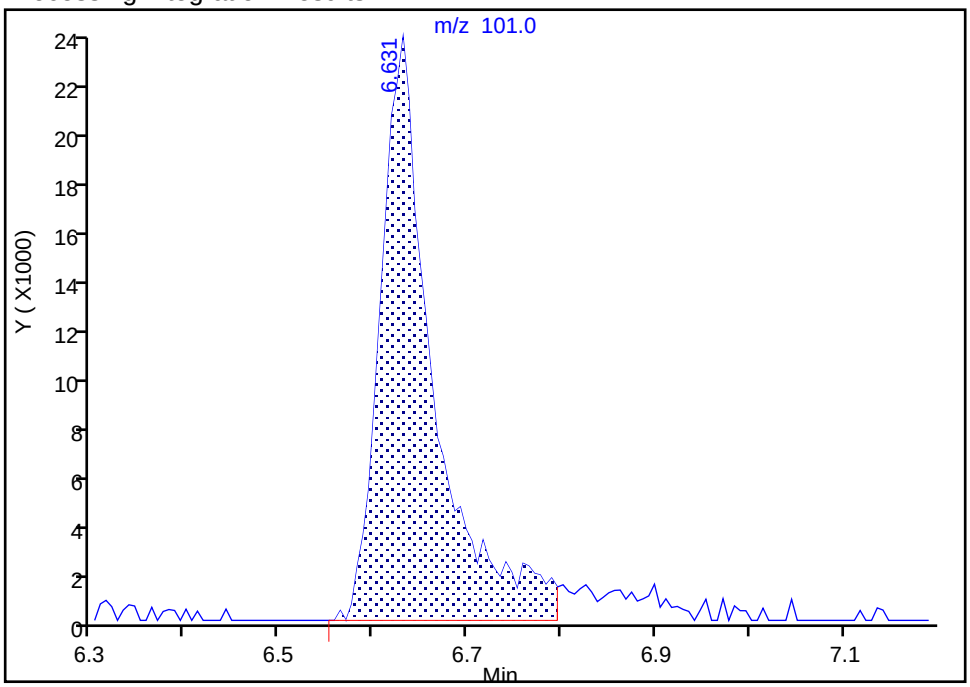
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38547.D
Injection Date: 23-Nov-2018 15:44:30 Instrument ID: HP5973P
Lims ID: IC 4
Client ID:
Operator ID: RF ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

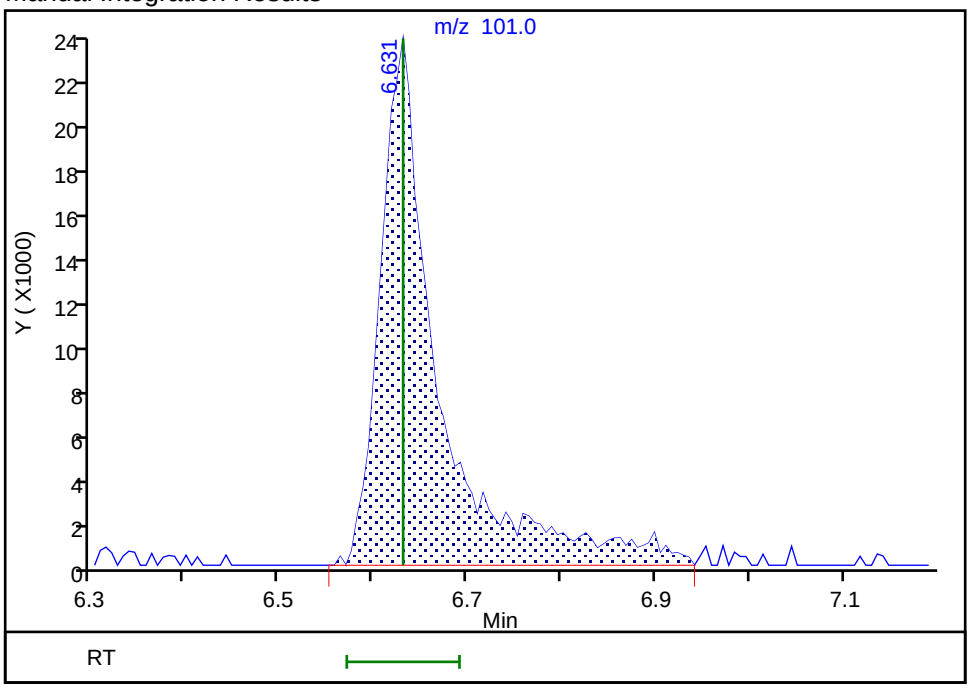
Processing Integration Results

RT: 6.63
Area: 91293
Amount: 9.615619
Amount Units: ug/L



Manual Integration Results

RT: 6.63
Area: 99227
Amount: 10.540611
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:11:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

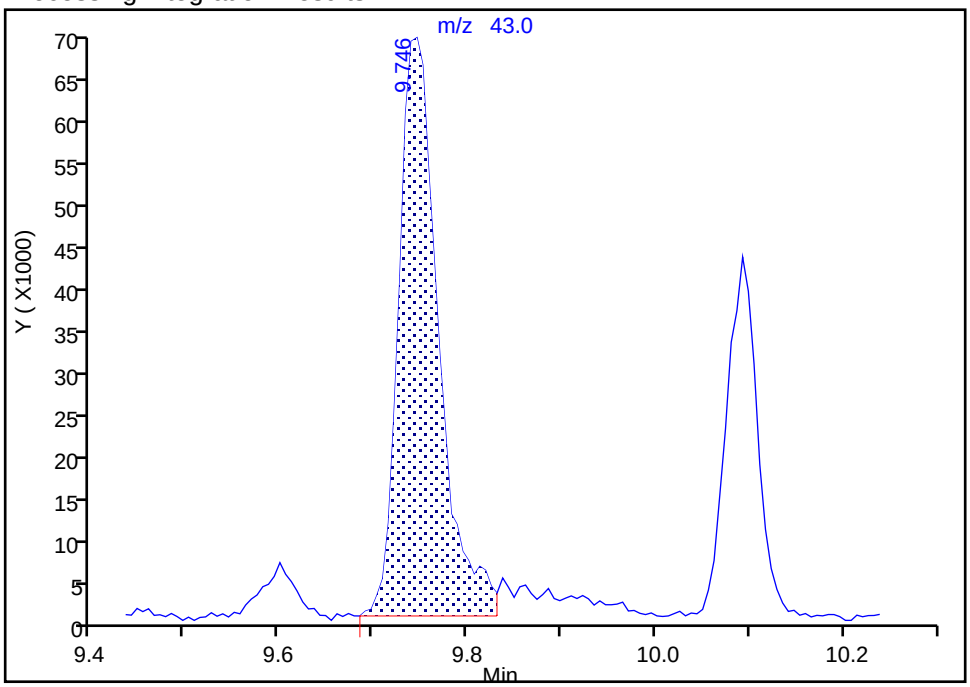
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38547.D
Injection Date: 23-Nov-2018 15:44:30 Instrument ID: HP5973P
Lims ID: IC 4
Client ID:
Operator ID: RF ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

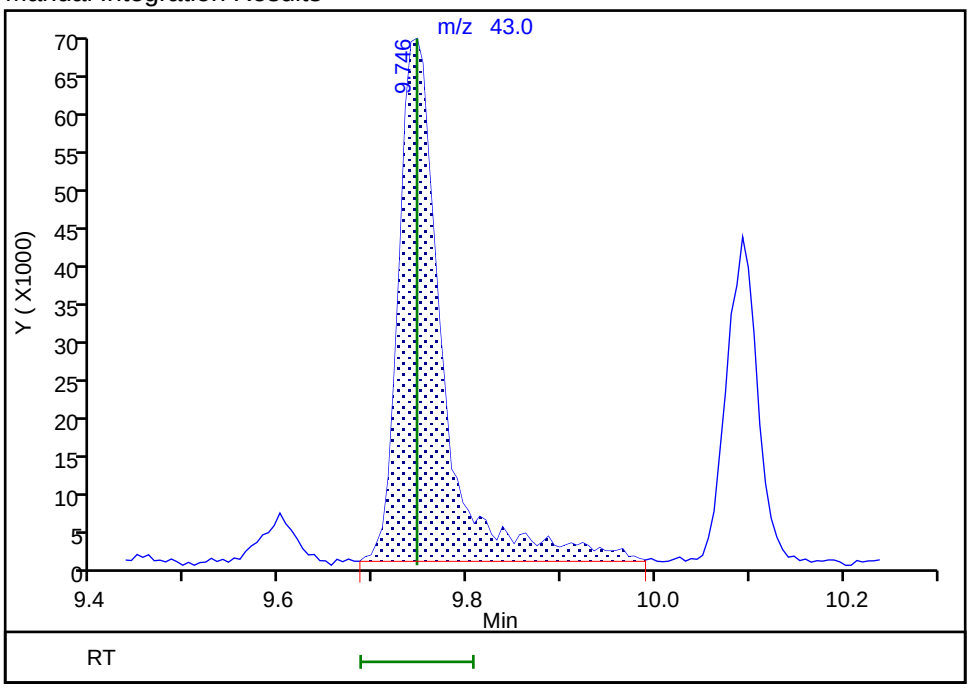
Processing Integration Results

RT: 9.75
Area: 203797
Amount: 230.5556
Amount Units: ug/L



Manual Integration Results

RT: 9.75
Area: 223548
Amount: 245.3919
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:13:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38548.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 23-Nov-2018 16:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0076682-011
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Nov-2018 11:16:53 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: milligana Date: 24-Nov-2018 16:06:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	10.330	10.330	0.000	98	186442	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.284	14.284	0.000	86	379037	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.247	0.000	94	405664	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.533	9.533	0.000	92	271411	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.989	0.000	0	157834	25.0	25.4	
$ 5 Toluene-d8 (Surr)	98	12.319	12.319	0.000	94	923696	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	93	302267	25.0	25.4	
10 Dichlorodifluoromethane	85	4.252	4.252	0.000	99	321153	25.0	23.8	
11 Chloromethane	50	4.672	4.672	0.000	99	489797	25.0	22.8	
17 Vinyl chloride	62	4.855	4.855	0.000	98	430997	25.0	23.7	
144 Butadiene	54	4.897	4.897	0.000	96	371679	25.0	21.3	
12 Bromomethane	94	5.481	5.481	0.000	93	305985	25.0	24.1	
13 Chloroethane	64	5.615	5.615	0.000	98	252982	25.0	26.0	
19 Dichlorofluoromethane	67	5.895	5.895	0.000	97	589272	25.0	23.9	
14 Trichlorofluoromethane	101	5.962	5.962	0.000	99	507074	25.0	25.2	
20 Ethyl ether	59	6.315	6.315	0.000	96	253635	25.0	25.6	
22 Acrolein	56	6.619	6.619	0.000	98	301049	125.0	125.5	
16 1,1,2-Trichloro-1,2,2-trif	101	6.637	6.637	0.000	91	247371	25.0	24.7	
25 1,1-Dichloroethene	96	6.728	6.728	0.000	97	258647	25.0	22.8	
24 Acetone	43	6.807	6.807	0.000	98	789487	125.0	125.5	
18 Iodomethane	142	7.020	7.020	0.000	99	536134	25.0	25.7	
27 Carbon disulfide	76	7.118	7.118	0.000	99	801074	25.0	25.2	
30 Methyl acetate	43	7.172	7.172	0.000	99	620912	50.0	48.9	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	85	477892	25.0	23.6	
31 Methylene Chloride	84	7.385	7.385	0.000	98	320175	25.0	24.1	
33 2-Methyl-2-propanol	59	7.422	7.422	0.000	98	530257	250.0	262.9	
32 Methyl tert-butyl ether	73	7.598	7.598	0.000	98	826301	25.0	25.3	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	96	287939	25.0	23.3	
34 Acrylonitrile	53	7.726	7.726	0.000	98	1460249	250.0	266.8	
36 Hexane	57	7.896	7.896	0.000	95	315057	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
38 Vinyl acetate	43	8.195	8.195	0.000	98	1483048	50.0	53.6	
40 1,1-Dichloroethane	63	8.249	8.249	0.000	96	539811	25.0	25.1	
44 2-Butanone (MEK)	43	8.931	8.931	0.000	100	1093517	125.0	128.6	
45 2,2-Dichloropropane	77	8.937	8.937	0.000	92	354754	25.0	25.1	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	83	337890	25.0	24.4	
50 Chlorobromomethane	128	9.290	9.290	0.000	97	181703	25.0	25.5	
51 Tetrahydrofuran	42	9.302	9.302	0.000	87	272286	50.0	52.4	
49 Chloroform	83	9.320	9.320	0.000	96	532191	25.0	25.6	
52 1,1,1-Trichloroethane	97	9.557	9.557	0.000	98	425569	25.0	24.9	
54 Cyclohexane	56	9.600	9.600	0.000	94	400267	25.0	24.4	
56 1,1-Dichloropropene	75	9.734	9.734	0.000	89	376162	25.0	24.9	
55 Carbon tetrachloride	117	9.746	9.746	0.000	95	397311	25.0	25.6	
53 Isobutyl alcohol	43	9.758	9.758	0.000	85	630239	625.0	649.6	
57 Benzene	78	10.032	10.032	0.000	98	1105675	25.0	25.2	
60 1,2-Dichloroethane	62	10.087	10.087	0.000	96	455797	25.0	25.4	
59 n-Heptane	43	10.093	10.093	0.000	92	251699	25.0	23.6	
62 Trichloroethene	95	10.786	10.786	0.000	94	297558	25.0	24.1	
64 Methylcyclohexane	83	10.981	10.981	0.000	94	361018	25.0	24.6	
63 1,2-Dichloropropane	63	11.121	11.121	0.000	91	312563	25.0	25.3	
68 1,4-Dioxane	88	11.255	11.255	0.000	97	66017	500.0	530.2	
69 Dibromomethane	93	11.328	11.328	0.000	96	226325	25.0	25.2	
70 Dichlorobromomethane	83	11.455	11.455	0.000	96	413722	25.0	25.8	
71 2-Chloroethyl vinyl ether	63	11.711	11.711	0.000	93	117721	25.0	25.7	
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	91	480801	25.0	26.1	
75 4-Methyl-2-pentanone (MIBK	43	12.094	12.094	0.000	98	2044110	125.0	133.7	
76 Toluene	92	12.417	12.417	0.000	97	717465	25.0	25.1	
77 Ethyl methacrylate	69	12.636	12.636	0.000	90	426904	25.0	26.1	
78 trans-1,3-Dichloropropene	75	12.702	12.702	0.000	97	460850	25.0	27.1	
79 1,1,2-Trichloroethane	83	12.994	12.994	0.000	92	239978	25.0	25.5	
80 Tetrachloroethene	166	13.140	13.140	0.000	94	304037	25.0	25.8	
83 2-Hexanone	43	13.183	13.183	0.000	98	1594118	125.0	132.3	
82 1,3-Dichloropropane	76	13.226	13.226	0.000	94	487445	25.0	26.5	
81 Chlorodibromomethane	129	13.566	13.566	0.000	89	342362	25.0	26.7	
85 Ethylene Dibromide	107	13.767	13.767	0.000	97	317595	25.0	26.4	
87 Chlorobenzene	112	14.327	14.327	0.000	98	844215	25.0	25.6	
89 Ethylbenzene	91	14.369	14.369	0.000	96	1294943	25.0	25.8	
88 1,1,1,2-Tetrachloroethane	131	14.406	14.406	0.000	95	321715	25.0	26.3	
90 m-Xylene & p-Xylene	106	14.503	14.503	0.000	0	522420	25.0	26.0	
93 o-Xylene	106	15.057	15.057	0.000	96	517814	25.0	25.7	
94 Styrene	104	15.081	15.081	0.000	96	896565	25.0	26.4	
92 Bromoform	173	15.464	15.464	0.000	94	229041	25.0	26.6	
95 Isopropylbenzene	105	15.483	15.483	0.000	97	1208863	25.0	25.2	
97 1,1,2,2-Tetrachloroethane	83	15.957	15.957	0.000	96	415234	25.0	26.1	
98 trans-1,4-Dichloro-2-buten	53	16.006	16.006	0.000	59	116444	25.0	26.0	
99 N-Propylbenzene	91	16.012	16.012	0.000	99	1437408	25.0	25.9	
100 Bromobenzene	156	16.030	16.030	0.000	94	393521	25.0	25.7	
101 1,2,3-Trichloropropane	110	16.048	16.048	0.000	87	123502	25.0	25.8	
102 1,3,5-Trimethylbenzene	105	16.201	16.201	0.000	95	1026508	25.0	25.9	
103 2-Chlorotoluene	126	16.219	16.219	0.000	96	345738	25.0	25.4	
105 4-Chlorotoluene	126	16.347	16.347	0.000	97	352416	25.0	25.5	
106 tert-Butylbenzene	134	16.639	16.639	0.000	94	216340	25.0	25.1	
107 1,2,4-Trimethylbenzene	105	16.699	16.699	0.000	98	1075377	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	16.906	16.906	0.000	95	1135710	25.0	24.8	
112 4-Isopropyltoluene	119	17.052	17.052	0.000	96	991518	25.0	25.9	
110 1,3-Dichlorobenzene	146	17.174	17.174	0.000	99	677869	25.0	26.0	
111 1,4-Dichlorobenzene	146	17.277	17.277	0.000	94	698517	25.0	25.8	
115 n-Butylbenzene	91	17.569	17.569	0.000	98	862471	25.0	25.6	
116 1,2-Dichlorobenzene	146	17.770	17.770	0.000	97	659948	25.0	25.9	
117 1,2-Dibromo-3-Chloropropan	75	18.804	18.804	0.000	85	78922	25.0	23.3	
119 1,2,4-Trichlorobenzene	180	19.905	19.905	0.000	93	429171	25.0	25.3	
120 Hexachlorobutadiene	225	20.027	20.027	0.000	97	129043	25.0	24.9	
121 Naphthalene	128	20.343	20.343	0.000	97	1318234	25.0	26.5	
122 1,2,3-Trichlorobenzene	180	20.721	20.721	0.000	96	427876	25.0	26.1	

Reagents:

8260 CORP mix_00140	Amount Added: 12.50	Units: uL	
GAS CORP mix_00313	Amount Added: 12.50	Units: uL	
P 8260 IS_00340	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00313	Amount Added: 1.25	Units: uL	Run Reagent

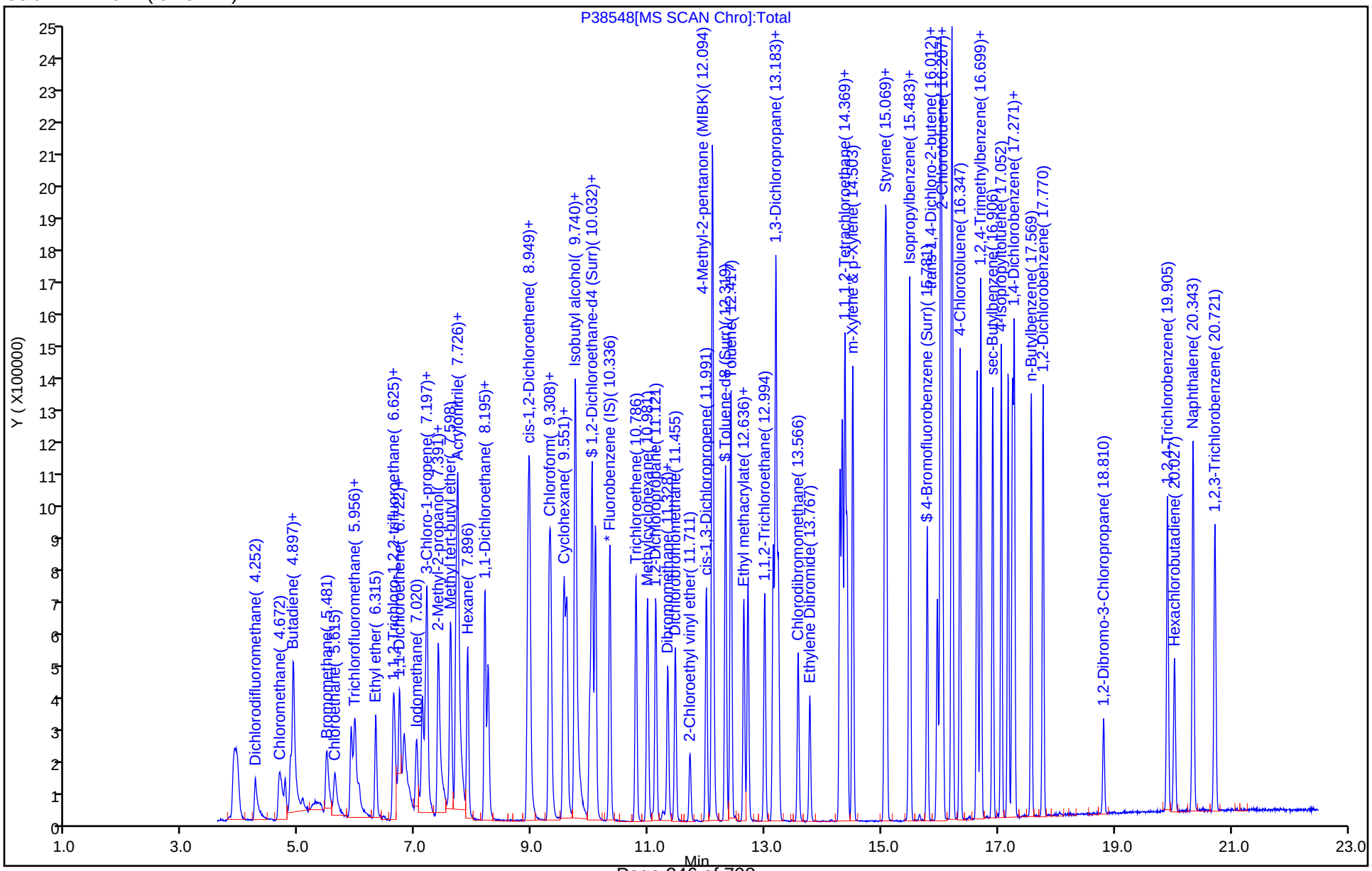
Report Date: 25-Nov-2018 11:16:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38548.D

Injection Date:	23-Nov-2018 16:12:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	ICIS 5			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Report Date: 25-Nov-2018 11:16:59 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38549.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 23-Nov-2018 16:39:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0076682-012
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Nov-2018 11:16:57 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: milligana Date: 24-Nov-2018 14:35:41

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	10.336	10.330	0.006	98	192945	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.285	14.284	0.001	85	396627	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.247	0.000	94	429763	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.533	0.006	92	270980	25.0	24.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.990	9.989	0.001	0	157576	25.0	24.5	
$ 5 Toluene-d8 (Surr)	98	12.320	12.319	0.001	93	930731	25.0	24.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	92	307412	25.0	24.7	
10 Dichlorodifluoromethane	85	4.253	4.252	0.001	99	691865	50.0	49.5	
11 Chloromethane	50	4.666	4.672	-0.006	99	985644	50.0	44.4	
17 Vinyl chloride	62	4.855	4.855	0.000	98	889814	50.0	47.3	
144 Butadiene	54	4.904	4.897	0.007	97	796453	50.0	44.0	
12 Bromomethane	94	5.463	5.481	-0.018	94	594953	50.0	45.2	
13 Chloroethane	64	5.615	5.615	0.000	97	468375	50.0	46.6	
19 Dichlorofluoromethane	67	5.895	5.895	0.000	98	1178062	50.0	46.2	
14 Trichlorofluoromethane	101	5.956	5.962	-0.006	99	1027912	50.0	49.3	
20 Ethyl ether	59	6.315	6.315	0.000	94	488485	50.0	47.6	
22 Acrolein	56	6.619	6.619	0.000	99	586548	250.0	236.3	
16 1,1,2-Trichloro-1,2,2-trif	101	6.625	6.637	-0.012	92	525518	50.0	50.6	
25 1,1-Dichloroethene	96	6.723	6.728	-0.005	96	513572	50.0	43.7	
24 Acetone	43	6.802	6.807	-0.005	99	1504722	250.0	231.1	
18 Iodomethane	142	7.015	7.020	-0.005	99	1098867	50.0	50.9	
27 Carbon disulfide	76	7.118	7.118	0.000	99	1651511	50.0	50.2	
30 Methyl acetate	43	7.167	7.172	-0.005	98	1160749	100.0	88.4	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	84	955292	50.0	45.6	
31 Methylene Chloride	84	7.392	7.385	0.007	98	668116	50.0	49.5	
33 2-Methyl-2-propanol	59	7.410	7.422	-0.012	97	1084750	500.0	519.7	
32 Methyl tert-butyl ether	73	7.605	7.598	0.007	99	1637094	50.0	48.4	
35 trans-1,2-Dichloroethene	96	7.690	7.696	-0.006	96	586459	50.0	45.9	
34 Acrylonitrile	53	7.726	7.726	0.000	96	2625047	500.0	463.4	
36 Hexane	57	7.891	7.896	-0.005	96	658706	50.0	47.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.189	8.195	-0.006	98	2803761	100.0	97.9	
40 1,1-Dichloroethane	63	8.244	8.249	-0.005	96	1069814	50.0	48.1	
44 2-Butanone (MEK)	43	8.925	8.931	-0.006	100	2018022	250.0	229.3	
45 2,2-Dichloropropane	77	8.937	8.937	0.000	92	725907	50.0	49.6	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	85	664580	50.0	46.4	
50 Chlorobromomethane	128	9.290	9.290	0.000	98	359102	50.0	48.7	
51 Tetrahydrofuran	42	9.296	9.302	-0.006	87	510256	100.0	94.8	
49 Chloroform	83	9.320	9.320	0.000	96	1053628	50.0	49.0	
52 1,1,1-Trichloroethane	97	9.558	9.557	0.001	98	875397	50.0	49.5	
54 Cyclohexane	56	9.594	9.600	-0.006	95	837108	50.0	49.4	
56 1,1-Dichloropropene	75	9.734	9.734	0.000	91	778960	50.0	49.9	
53 Isobutyl alcohol	43	9.746	9.758	-0.012	91	1203160	1250.0	1198.3	
55 Carbon tetrachloride	117	9.746	9.746	0.000	94	833443	50.0	51.8	
57 Benzene	78	10.026	10.032	-0.006	99	2181051	50.0	48.0	
60 1,2-Dichloroethane	62	10.081	10.087	-0.006	96	900071	50.0	48.4	M
59 n-Heptane	43	10.093	10.093	0.000	96	523165	50.0	47.5	
62 Trichloroethene	95	10.786	10.786	0.000	95	599647	50.0	46.9	
64 Methylcyclohexane	83	10.981	10.981	0.000	94	741818	50.0	48.9	
63 1,2-Dichloropropane	63	11.121	11.121	0.000	90	618072	50.0	48.4	
68 1,4-Dioxane	88	11.243	11.255	-0.012	96	161732	1000.0	1241.3	
69 Dibromomethane	93	11.328	11.328	0.000	96	441306	50.0	47.6	
70 Dichlorobromomethane	83	11.456	11.455	0.001	96	830864	50.0	50.1	
71 2-Chloroethyl vinyl ether	63	11.711	11.711	0.000	94	237333	50.0	50.0	
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	91	959199	50.0	50.3	
75 4-Methyl-2-pentanone (MIBK	43	12.094	12.094	0.000	94	3628187	250.0	226.7	
76 Toluene	92	12.417	12.417	0.000	99	1428261	50.0	47.8	
77 Ethyl methacrylate	69	12.636	12.636	0.000	91	835960	50.0	48.8	
78 trans-1,3-Dichloropropene	75	12.703	12.702	0.001	97	928736	50.0	52.2	
79 1,1,2-Trichloroethane	83	12.989	12.994	-0.005	93	480492	50.0	48.8	
80 Tetrachloroethene	166	13.141	13.140	0.001	95	629692	50.0	51.0	
83 2-Hexanone	43	13.183	13.183	0.000	96	2896760	250.0	229.8	
82 1,3-Dichloropropane	76	13.226	13.226	0.000	94	953576	50.0	49.5	
81 Chlorodibromomethane	129	13.567	13.566	0.001	90	711674	50.0	53.1	
85 Ethylene Dibromide	107	13.767	13.767	0.000	98	623502	50.0	49.5	
87 Chlorobenzene	112	14.327	14.327	0.000	97	1656263	50.0	48.1	
89 Ethylbenzene	91	14.370	14.369	0.001	96	2518459	50.0	47.9	
88 1,1,1,2-Tetrachloroethane	131	14.406	14.406	0.000	94	648784	50.0	50.6	
90 m-Xylene & p-Xylene	106	14.504	14.503	0.001	0	1050676	50.0	50.0	
93 o-Xylene	106	15.057	15.057	0.000	97	1041467	50.0	49.5	
94 Styrene	104	15.081	15.081	0.000	95	1806317	50.0	50.9	
92 Bromoform	173	15.465	15.464	0.001	94	489323	50.0	54.2	
95 Isopropylbenzene	105	15.483	15.483	0.000	97	2361547	50.0	46.6	
97 1,1,2,2-Tetrachloroethane	83	15.951	15.957	-0.006	96	810000	50.0	48.0	
98 trans-1,4-Dichloro-2-buten	53	16.006	16.006	0.000	84	250470	50.0	52.9	
99 N-Propylbenzene	91	16.012	16.012	0.000	98	2715990	50.0	46.1	
100 Bromobenzene	156	16.031	16.030	0.001	94	792459	50.0	48.8	
101 1,2,3-Trichloropropane	110	16.055	16.048	0.007	87	247445	50.0	48.7	
102 1,3,5-Trimethylbenzene	105	16.201	16.201	0.000	96	2028502	50.0	48.3	
103 2-Chlorotoluene	126	16.219	16.219	0.000	96	704404	50.0	48.8	
105 4-Chlorotoluene	126	16.347	16.347	0.000	97	735201	50.0	50.1	
106 tert-Butylbenzene	134	16.639	16.639	0.000	93	449533	50.0	49.3	
107 1,2,4-Trimethylbenzene	105	16.700	16.699	0.001	98	2117173	50.0	48.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.907	16.906	0.001	95	2280832	50.0	47.1	
112 4-Isopropyltoluene	119	17.053	17.052	0.001	95	2027393	50.0	50.0	
110 1,3-Dichlorobenzene	146	17.174	17.174	0.000	98	1354109	50.0	49.0	
111 1,4-Dichlorobenzene	146	17.278	17.277	0.001	94	1403031	50.0	48.9	
115 n-Butylbenzene	91	17.570	17.569	0.001	97	1720232	50.0	48.2	
116 1,2-Dichlorobenzene	146	17.770	17.770	0.000	96	1331131	50.0	49.2	
117 1,2-Dibromo-3-Chloropropan	75	18.811	18.804	0.007	86	161772	50.0	45.1	
119 1,2,4-Trichlorobenzene	180	19.906	19.905	0.001	94	877775	50.0	48.8	
120 Hexachlorobutadiene	225	20.027	20.027	0.000	96	270215	50.0	49.2	
121 Naphthalene	128	20.344	20.343	0.001	98	2610340	50.0	49.6	
122 1,2,3-Trichlorobenzene	180	20.721	20.721	0.000	95	863274	50.0	49.6	
S 126 Xylenes, Total	1				0			99.4	
S 123 1,2-Dichloroethene, Total	1				0			92.3	
S 124 1,3-Dichloropropene, Total	1				0			102.6	
S 125 Total BTEX	1				0			243.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00140	Amount Added:	25.00	Units: uL	
GAS CORP mix_00313	Amount Added:	25.00	Units: uL	
P 8260 IS_00340	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00313	Amount Added:	1.25	Units: uL	Run Reagent

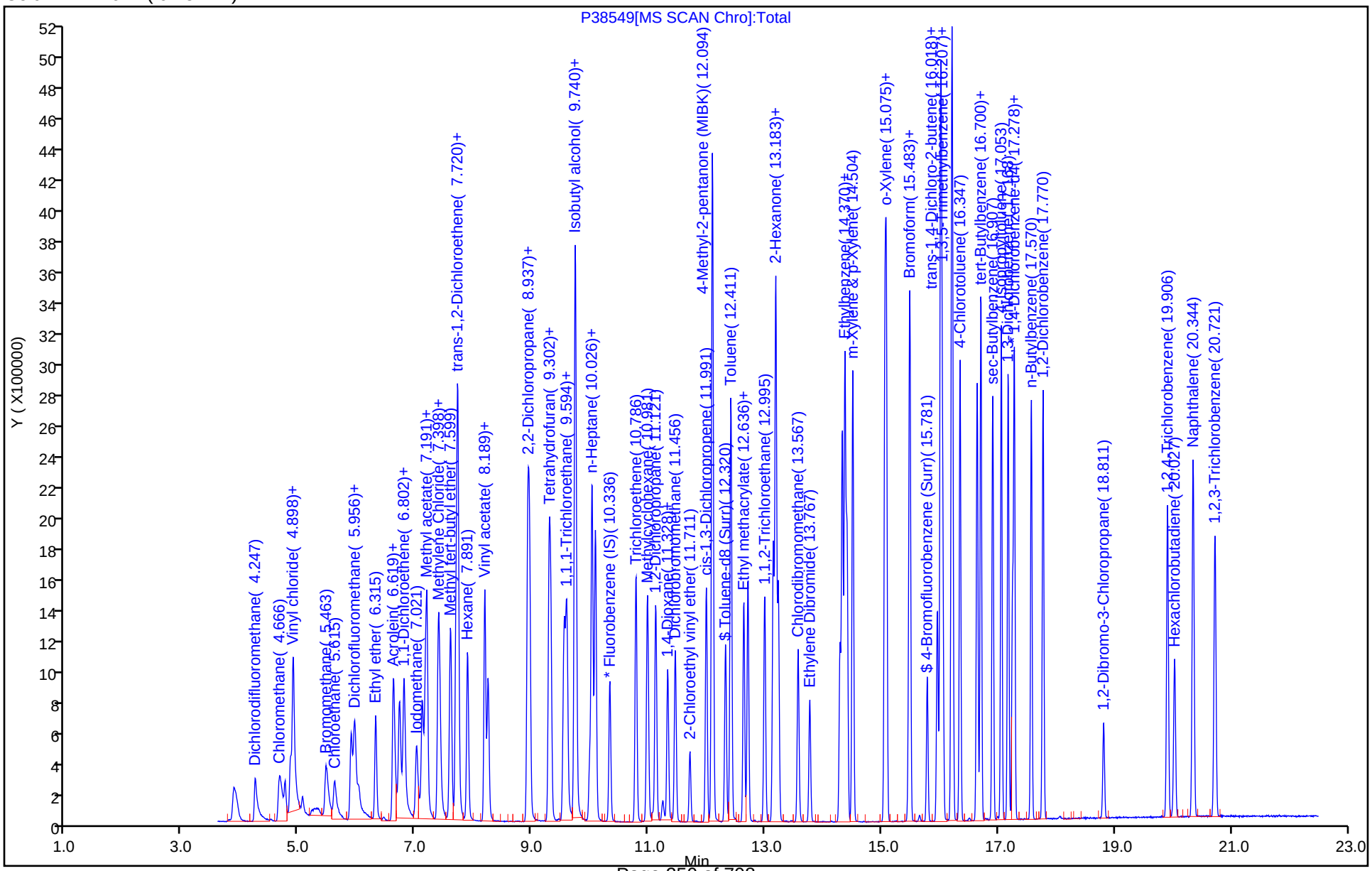
Report Date: 25-Nov-2018 11:16:59 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38549.D

Injection Date:	23-Nov-2018 16:39:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC 6			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

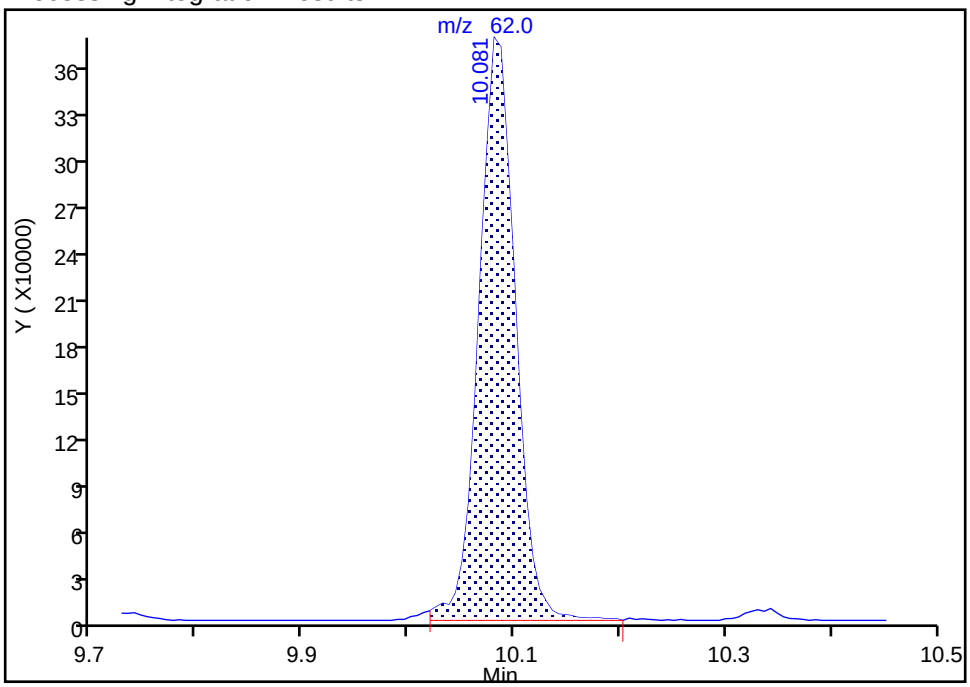
Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38549.D
Injection Date: 23-Nov-2018 16:39:30 Instrument ID: HP5973P
Lims ID: IC 6
Client ID:
Operator ID: RF ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

60 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

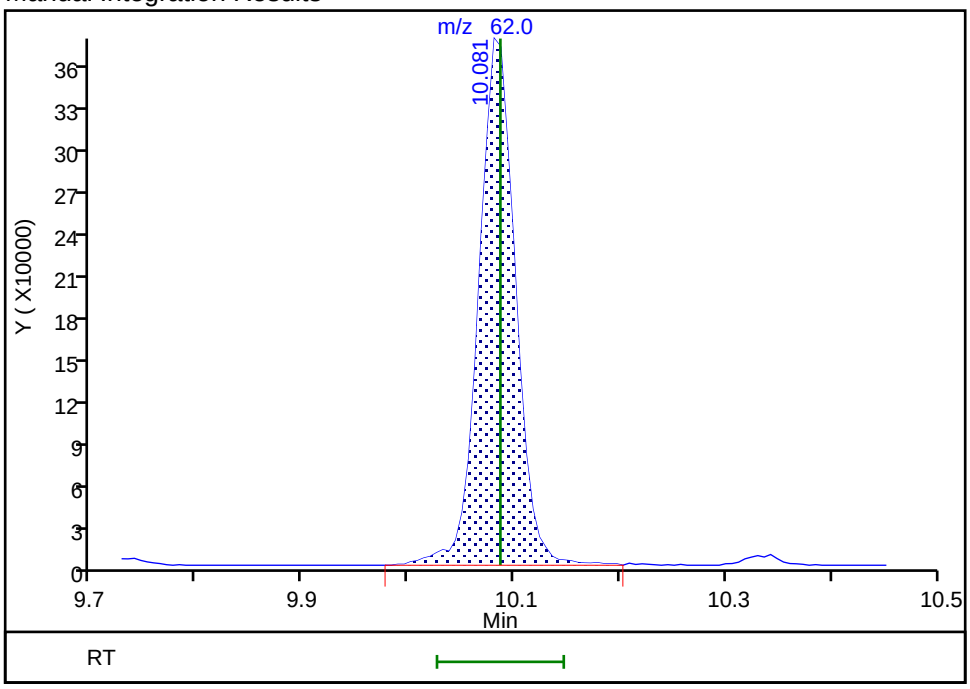
Processing Integration Results

RT: 10.08
Area: 895663
Amount: 48.189172
Amount Units: ug/L



Manual Integration Results

RT: 10.08
Area: 900071
Amount: 48.393542
Amount Units: ug/L



Reviewer: milligana, 24-Nov-2018 14:35:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Report Date: 25-Nov-2018 11:17:04 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38550.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Nov-2018 17:06:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0076682-013
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Nov-2018 11:17:02 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: milligana Date: 24-Nov-2018 14:37:17

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	10.336	10.330	0.006	98	203137	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.285	14.284	0.001	85	419870	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.247	0.000	95	475073	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.533	9.533	0.000	92	295910	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.990	9.989	0.001	0	167519	25.0	24.7	
$ 5 Toluene-d8 (Surr)	98	12.320	12.319	0.001	94	1005069	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	93	341795	25.0	25.9	
10 Dichlorodifluoromethane	85	4.253	4.252	0.001	99	1464773	100.0	99.5	
11 Chloromethane	50	4.666	4.672	-0.006	99	2050446	100.0	87.8	
17 Vinyl chloride	62	4.855	4.855	0.000	98	1877501	100.0	94.8	
144 Butadiene	54	4.904	4.897	0.007	95	1664702	100.0	87.4	
12 Bromomethane	94	5.476	5.481	-0.005	94	1236373	100.0	89.2	
13 Chloroethane	64	5.616	5.615	0.001	97	1017134	100.0	96.0	
19 Dichlorofluoromethane	67	5.895	5.895	0.000	97	2507572	100.0	93.5	
14 Trichlorofluoromethane	101	5.956	5.962	-0.006	99	2199922	100.0	100.2	
20 Ethyl ether	59	6.315	6.315	0.000	95	1050960	100.0	97.4	
22 Acrolein	56	6.619	6.619	0.000	99	1232106	500.0	471.4	
16 1,1,2-Trichloro-1,2,2-trif	101	6.631	6.637	-0.006	93	1144527	100.0	104.8	
25 1,1-Dichloroethene	96	6.729	6.728	0.001	97	1205602	100.0	97.5	
24 Acetone	43	6.802	6.807	-0.005	99	3003547	500.0	438.2	
18 Iodomethane	142	7.021	7.020	0.001	99	2413970	100.0	106.2	
27 Carbon disulfide	76	7.118	7.118	0.000	98	3305936	100.0	95.4	
30 Methyl acetate	43	7.173	7.172	0.001	98	2314946	200.0	167.4	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	84	2053531	100.0	93.1	
31 Methylene Chloride	84	7.392	7.385	0.007	98	1402300	100.0	99.6	
33 2-Methyl-2-propanol	59	7.416	7.422	-0.006	97	2240444	1000.0	1019.5	
32 Methyl tert-butyl ether	73	7.605	7.598	0.007	99	3505402	100.0	98.4	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	96	1257793	100.0	93.5	
34 Acrylonitrile	53	7.727	7.726	0.001	94	4888483	1000.0	819.7	
36 Hexane	57	7.891	7.896	-0.005	95	1443219	100.0	99.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.189	8.195	-0.006	99	5142279	200.0	170.5	
40 1,1-Dichloroethane	63	8.244	8.249	-0.005	96	2297014	100.0	98.1	
44 2-Butanone (MEK)	43	8.925	8.931	-0.006	99	3902561	500.0	421.1	
45 2,2-Dichloropropane	77	8.937	8.937	0.000	91	1681691	100.0	109.0	
43 cis-1,2-Dichloroethene	96	8.962	8.961	0.001	84	1433691	100.0	95.1	
50 Chlorobromomethane	128	9.290	9.290	0.000	98	775276	100.0	99.8	
51 Tetrahydrofuran	42	9.296	9.302	-0.006	86	1064944	200.0	188.0	
49 Chloroform	83	9.320	9.320	0.000	95	2213004	100.0	97.8	
52 1,1,1-Trichloroethane	97	9.558	9.557	0.001	98	1939073	100.0	104.1	
54 Cyclohexane	56	9.594	9.600	-0.006	95	1863583	100.0	104.5	
56 1,1-Dichloropropene	75	9.734	9.734	0.000	91	1726052	100.0	105.0	
53 Isobutyl alcohol	43	9.746	9.758	-0.012	90	2573232	2500.0	2434.2	
55 Carbon tetrachloride	117	9.746	9.746	0.000	93	1930869	100.0	114.1	
57 Benzene	78	10.032	10.032	0.000	98	4265474	100.0	89.2	
60 1,2-Dichloroethane	62	10.087	10.087	0.000	96	1921717	100.0	98.1	
59 n-Heptane	43	10.093	10.093	0.000	91	1154999	100.0	99.6	
62 Trichloroethene	95	10.787	10.786	0.001	94	1305659	100.0	97.1	
64 Methylcyclohexane	83	10.981	10.981	0.000	95	1658077	100.0	103.8	
63 1,2-Dichloropropane	63	11.121	11.121	0.000	89	1309943	100.0	97.4	
68 1,4-Dioxane	88	11.243	11.255	-0.012	96	289080	2000.0	2095.8	
69 Dibromomethane	93	11.328	11.328	0.000	96	957887	100.0	98.0	
70 Dichlorobromomethane	83	11.456	11.455	0.001	96	1801189	100.0	103.1	
71 2-Chloroethyl vinyl ether	63	11.711	11.711	0.000	94	595142	100.0	119.1	
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	91	2050259	100.0	102.2	
75 4-Methyl-2-pentanone (MIBK	43	12.095	12.094	0.001	83	6120918	500.0	361.3	
76 Toluene	92	12.417	12.417	0.000	99	3007318	100.0	95.1	
77 Ethyl methacrylate	69	12.636	12.636	0.000	91	1775617	100.0	98.0	
78 trans-1,3-Dichloropropene	75	12.703	12.702	0.001	96	2007463	100.0	106.6	
79 1,1,2-Trichloroethane	83	12.995	12.994	0.001	94	1022863	100.0	98.1	
80 Tetrachloroethene	166	13.141	13.140	0.001	94	1387542	100.0	106.1	
83 2-Hexanone	43	13.184	13.183	0.001	90	5051125	500.0	378.6	
82 1,3-Dichloropropane	76	13.226	13.226	0.000	95	2028471	100.0	99.5	
81 Chlorodibromomethane	129	13.567	13.566	0.001	90	1568925	100.0	110.6	
85 Ethylene Dibromide	107	13.768	13.767	0.001	98	1342527	100.0	100.7	
87 Chlorobenzene	112	14.327	14.327	0.000	93	3373620	100.0	92.5	
89 Ethylbenzene	91	14.370	14.369	0.001	93	4720236	100.0	84.8	
88 1,1,1,2-Tetrachloroethane	131	14.406	14.406	0.000	95	1475729	100.0	108.8	
90 m-Xylene & p-Xylene	106	14.504	14.503	0.001	0	2289220	100.0	102.8	
93 o-Xylene	106	15.057	15.057	0.000	93	2283267	100.0	102.5	
94 Styrene	104	15.082	15.081	0.001	91	3749263	100.0	99.8	
92 Bromoform	173	15.471	15.464	0.007	93	1142687	100.0	119.6	
95 Isopropylbenzene	105	15.483	15.483	0.000	97	4543874	100.0	81.0	
97 1,1,2,2-Tetrachloroethane	83	15.958	15.957	0.001	96	1690477	100.0	90.6	
98 trans-1,4-Dichloro-2-buten	53	16.006	16.006	0.000	90	622918	100.0	119.0	
99 N-Propylbenzene	91	16.012	16.012	0.000	92	4951768	100.0	76.1	
100 Bromobenzene	156	16.031	16.030	0.001	93	1779264	100.0	99.0	
101 1,2,3-Trichloropropane	110	16.049	16.048	0.001	83	551329	100.0	98.2	
102 1,3,5-Trimethylbenzene	105	16.201	16.201	0.000	95	4001281	100.0	86.1	
103 2-Chlorotoluene	126	16.219	16.219	0.000	93	1586131	100.0	99.4	
105 4-Chlorotoluene	126	16.347	16.347	0.000	93	1608134	100.0	99.2	
106 tert-Butylbenzene	134	16.639	16.639	0.000	92	1072688	100.0	106.4	
107 1,2,4-Trimethylbenzene	105	16.700	16.699	0.001	93	4198524	100.0	86.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.907	16.906	0.001	95	4449223	100.0	83.1	
112 4-Isopropyltoluene	119	17.053	17.052	0.001	91	4079266	100.0	91.1	
110 1,3-Dichlorobenzene	146	17.174	17.174	0.000	95	2888242	100.0	94.5	
111 1,4-Dichlorobenzene	146	17.278	17.277	0.001	89	2933127	100.0	92.4	
115 n-Butylbenzene	91	17.570	17.569	0.001	93	3544901	100.0	89.8	
116 1,2-Dichlorobenzene	146	17.771	17.770	0.001	93	2830381	100.0	94.7	
117 1,2-Dibromo-3-Chloropropan	75	18.811	18.804	0.007	87	372682	100.0	94.0	
119 1,2,4-Trichlorobenzene	180	19.906	19.905	0.001	94	1955795	100.0	98.3	
120 Hexachlorobutadiene	225	20.028	20.027	0.001	97	636470	100.0	104.8	
121 Naphthalene	128	20.350	20.343	0.007	99	5036484	100.0	86.5	
122 1,2,3-Trichlorobenzene	180	20.721	20.721	0.000	95	1943067	100.0	101.1	
S 126 Xylenes, Total	1				0			205.3	
S 123 1,2-Dichloroethene, Total	1				0			188.7	
S 124 1,3-Dichloropropene, Total	1				0			208.8	
S 125 Total BTEX	1				0			474.5	

Reagents:

8260 CORP mix_00140	Amount Added: 50.00	Units: uL	
GAS CORP mix_00313	Amount Added: 50.00	Units: uL	
P 8260 IS_00340	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00313	Amount Added: 1.25	Units: uL	Run Reagent

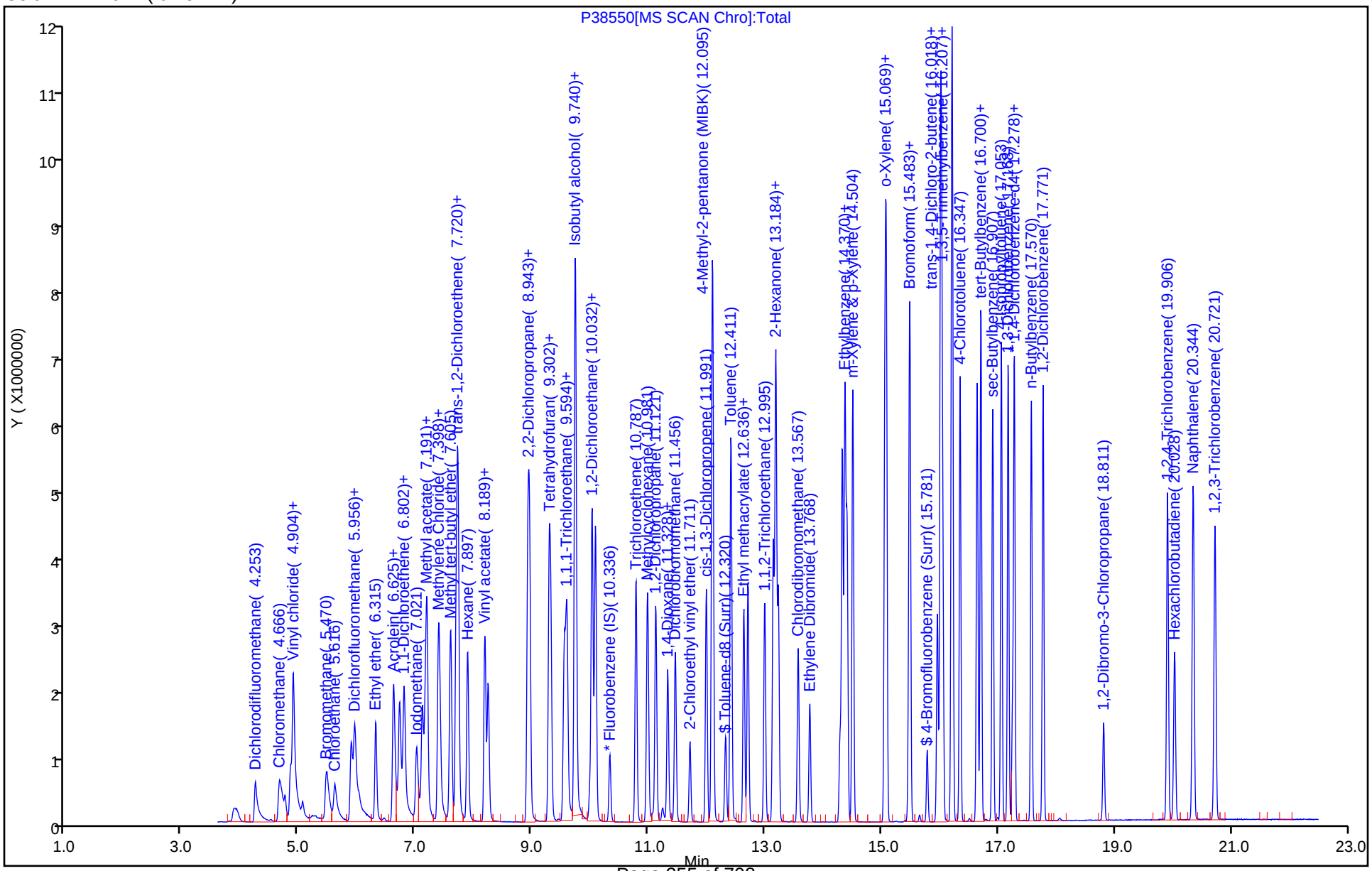
Report Date: 25-Nov-2018 11:17:04 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38550.D

Injection Date:	23-Nov-2018 17:06:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	IC 7			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-448834/3 Calibration Date: 12/04/2018 08:40

Instrument ID: HP5973N Calib Start Date: 11/27/2018 14:34

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 11/27/2018 17:43

Lab File ID: N6425.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	1.205	1.447	0.1000	30.0	25.0	20.1	50.0
Chloromethane	Ave	2.231	2.288	0.1000	25.6	25.0	2.5	20.0
Vinyl chloride	Ave	1.559	1.757	0.1000	28.2	25.0	12.8	20.0
Butadiene	Ave	1.438	1.806		31.4	25.0	25.6*	20.0
Bromomethane	Ave	1.013	0.9669	0.1000	23.9	25.0	-4.5	50.0
Chloroethane	Lin1		1.074	0.1000	28.8	25.0	15.0	50.0
Trichlorofluoromethane	Ave	1.881	2.213	0.1000	29.4	25.0	17.6	20.0
Dichlorofluoromethane	Ave	2.169	2.401		27.7	25.0	10.7	20.0
Ethyl ether	Ave	1.559	1.625		26.1	25.0	4.3	20.0
Acrolein	Ave	0.3610	0.3433		119	125	-4.9	50.0
1,1-Dichloroethene	Ave	1.149	1.278	0.1000	27.8	25.0	11.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.184	1.276	0.1000	27.0	25.0	7.8	20.0
Acetone	Ave	0.5577	0.7735	0.1000	173	125	38.7	50.0
Iodomethane	Ave	2.372	2.501		26.4	25.0	5.4	20.0
Carbon disulfide	Ave	3.765	3.745	0.1000	24.9	25.0	-0.5	20.0
Allyl chloride	Ave	3.317	3.425		25.8	25.0	3.3	20.0
Methyl acetate	Ave	1.841	1.789	0.1000	48.6	50.0	-2.8	50.0
Methylene Chloride	Lin1		1.433	0.1000	24.4	25.0	-2.3	20.0
2-Methyl-2-propanol	Ave	0.1030	0.1146		278	250	11.2	50.0
Methyl tert-butyl ether	Ave	4.485	4.543	0.1000	25.3	25.0	1.3	20.0
trans-1,2-Dichloroethene	Ave	1.388	1.473	0.1000	26.5	25.0	6.1	20.0
Acrylonitrile	Ave	0.8182	0.8626		264	250	5.4	20.0
Hexane	Ave	2.502	2.790		27.9	25.0	11.5	20.0
1,1-Dichloroethane	Ave	2.730	2.905	0.2000	26.6	25.0	6.4	20.0
Vinyl acetate	Ave	4.299	4.508		52.4	50.0	4.9	20.0
2,2-Dichloropropane	Ave	1.954	2.033		26.0	25.0	4.0	20.0
cis-1,2-Dichloroethene	Ave	1.624	1.620	0.1000	24.9	25.0	-0.3	20.0
2-Butanone (MEK)	Ave	1.016	1.161	0.1000	143	125	14.3	20.0
Chlorobromomethane	Ave	0.8889	0.8794		24.7	25.0	-1.1	20.0
Tetrahydrofuran	Ave	0.7389	0.7503		50.8	50.0	1.5	20.0
Chloroform	Ave	2.414	2.535	0.2000	26.3	25.0	5.0	20.0
1,1,1-Trichloroethane	Ave	2.194	2.394	0.1000	27.3	25.0	9.1	20.0
Cyclohexane	Ave	2.885	3.220	0.1000	27.9	25.0	11.6	20.0
Carbon tetrachloride	Ave	1.987	2.166	0.1000	27.3	25.0	9.0	20.0
1,1-Dichloropropene	Ave	1.765	1.921		27.2	25.0	8.8	20.0
Benzene	Ave	5.631	5.854	0.5000	26.0	25.0	3.9	20.0
Isobutyl alcohol	Ave	0.0679	0.0779		717	625	14.7	50.0
1,2-Dichloroethane	Ave	2.581	2.668	0.1000	25.8	25.0	3.4	20.0
n-Heptane	Ave	2.771	3.070		27.7	25.0	10.8	20.0
Trichloroethene	Ave	1.434	1.473	0.2000	25.7	25.0	2.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-448834/3 Calibration Date: 12/04/2018 08:40

Instrument ID: HP5973N Calib Start Date: 11/27/2018 14:34

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 11/27/2018 17:43

Lab File ID: N6425.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.110	2.404	0.1000	28.5	25.0	14.0	20.0
1,2-Dichloropropane	Ave	1.523	1.575	0.1000	25.9	25.0	3.4	20.0
Dibromomethane	Ave	0.9710	0.9775	0.1000	25.2	25.0	0.7	20.0
1,4-Dioxane	Lin1		0.0032		604	500	20.9	50.0
Bromodichloromethane	Ave	1.795	1.978	0.2000	27.5	25.0	10.2	20.0
2-Chloroethyl vinyl ether	Ave	1.103	1.104		25.0	25.0	0.1	20.0
cis-1,3-Dichloropropene	Ave	2.066	2.221	0.2000	26.9	25.0	7.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1918	0.1969	0.1000	128	125	2.6	20.0
Toluene	Ave	0.9086	0.8847	0.4000	24.3	25.0	-2.6	20.0
trans-1,3-Dichloropropene	Ave	0.4871	0.5044	0.1000	25.9	25.0	3.5	20.0
Ethyl methacrylate	Ave	0.4358	0.4308		24.7	25.0	-1.1	20.0
1,1,2-Trichloroethane	Ave	0.2495	0.2522	0.1000	25.3	25.0	1.1	20.0
Tetrachloroethene	Ave	0.4051	0.4244	0.2000	26.2	25.0	4.8	20.0
1,3-Dichloropropane	Ave	0.5136	0.5146		25.0	25.0	0.2	20.0
2-Hexanone	Ave	0.4144	0.4381	0.1000	132	125	5.7	20.0
Dibromochloromethane	Ave	0.3425	0.3713	0.1000	27.1	25.0	8.4	20.0
1,2-Dibromoethane	Ave	0.3356	0.3364		25.1	25.0	0.2	20.0
Chlorobenzene	Ave	1.026	1.017	0.5000	24.8	25.0	-0.9	20.0
Ethylbenzene	Ave	1.651	1.680	0.1000	25.4	25.0	1.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3791	0.4025		26.5	25.0	6.2	20.0
m,p-Xylene	Ave	0.6528	0.6828	0.1000	26.2	25.0	4.6	20.0
o-Xylene	Ave	0.6758	0.6588	0.3000	24.4	25.0	-2.5	20.0
Styrene	Ave	1.078	1.110	0.3000	25.7	25.0	2.9	20.0
Bromoform	Ave	0.2087	0.2308	0.1000	27.6	25.0	10.5	50.0
Isopropylbenzene	Ave	3.243	3.399	0.1000	26.2	25.0	4.8	20.0
Bromobenzene	Ave	0.9260	0.8754		23.6	25.0	-5.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7757	0.7746	0.3000	25.0	25.0	-0.1	20.0
N-Propylbenzene	Ave	3.594	3.681		25.6	25.0	2.4	20.0
1,2,3-Trichloropropane	Ave	0.2838	0.2706		23.8	25.0	-4.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3523	0.3098		22.0	25.0	-12.1	50.0
2-Chlorotoluene	Ave	0.7913	0.8171		25.8	25.0	3.3	20.0
1,3,5-Trimethylbenzene	Ave	2.709	2.849		26.3	25.0	5.2	20.0
4-Chlorotoluene	Ave	2.258	2.262		25.0	25.0	0.2	20.0
tert-Butylbenzene	Ave	0.6203	0.6592		26.6	25.0	6.3	20.0
1,2,4-Trimethylbenzene	Ave	2.810	2.957		26.3	25.0	5.3	20.0
sec-Butylbenzene	Ave	3.400	3.526		25.9	25.0	3.7	20.0
4-Isopropyltoluene	Ave	2.953	3.139		26.6	25.0	6.3	20.0
1,3-Dichlorobenzene	Ave	1.654	1.684	0.6000	25.5	25.0	1.8	20.0
1,4-Dichlorobenzene	Ave	1.664	1.711	0.5000	25.7	25.0	2.8	20.0
n-Butylbenzene	Ave	2.400	2.539		26.5	25.0	5.8	20.0
1,2-Dichlorobenzene	Ave	1.571	1.630	0.4000	25.9	25.0	3.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-448834/3 Calibration Date: 12/04/2018 08:40

Instrument ID: HP5973N Calib Start Date: 11/27/2018 14:34

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 11/27/2018 17:43

Lab File ID: N6425.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	0.1294	0.1328	0.0500	25.7	25.0	2.7	50.0
1,2,4-Trichlorobenzene	Ave	1.164	1.140	0.2000	24.5	25.0	-2.0	20.0
Hexachlorobutadiene	Ave	0.4736	0.4991		26.3	25.0	5.4	20.0
Naphthalene	Ave	2.904	2.910		25.0	25.0	0.2	20.0
1,2,3-Trichlorobenzene	Ave	1.109	1.058		23.9	25.0	-4.5	20.0
Dibromofluoromethane (Surr)	Ave	1.310	1.379		26.3	25.0	5.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.802	1.881		26.1	25.0	4.4	20.0
Toluene-d8 (Surr)	Ave	1.286	1.248		24.3	25.0	-2.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4092	0.4061		24.8	25.0	-0.7	20.0

Report Date: 04-Dec-2018 11:10:18 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6425.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 04-Dec-2018 08:40:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0076958-003
Operator ID: AM Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 04-Dec-2018 11:10:17 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0330

First Level Reviewer: moffata Date: 04-Dec-2018 11:10:17

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	5.540	5.540	0.000	98	167686	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	87	697945	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.930	10.930	0.000	95	368949	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.962	4.962	0.000	92	231160	25.0	26.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	315417	25.0	26.1	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	871237	25.0	24.3	
$ 7 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	94	283434	25.0	24.8	
11 Dichlorodifluoromethane	85	1.330	1.330	0.000	97	242720	25.0	30.0	
13 Chloromethane	50	1.513	1.513	0.000	100	383622	25.0	25.6	
14 Vinyl chloride	62	1.610	1.610	0.000	99	294703	25.0	28.2	
144 Butadiene	54	1.634	1.634	0.000	95	302872	25.0	31.4	
15 Bromomethane	94	1.932	1.932	0.000	92	162133	25.0	23.9	
16 Chloroethane	64	2.030	2.030	0.000	95	180120	25.0	28.8	
18 Trichlorofluoromethane	101	2.231	2.231	0.000	97	371103	25.0	29.4	
17 Dichlorofluoromethane	67	2.255	2.255	0.000	97	402684	25.0	27.7	
19 Ethyl ether	59	2.535	2.535	0.000	98	272571	25.0	26.1	
20 Acrolein	56	2.729	2.729	0.000	99	287819	125.0	118.9	
22 1,1-Dichloroethene	96	2.754	2.754	0.000	93	214228	25.0	27.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	87	214018	25.0	27.0	
23 Acetone	43	2.888	2.888	0.000	96	648547	125.0	173.4	
24 Iodomethane	142	2.918	2.918	0.000	99	419324	25.0	26.4	
25 Carbon disulfide	76	2.955	2.955	0.000	98	627913	25.0	24.9	
27 3-Chloro-1-propene	41	3.131	3.131	0.000	84	574393	25.0	25.8	
28 Methyl acetate	43	3.186	3.186	0.000	100	599935	50.0	48.6	
30 Methylene Chloride	84	3.283	3.283	0.000	91	240225	25.0	24.4	
31 2-Methyl-2-propanol	59	3.459	3.459	0.000	98	192085	250.0	278.0	
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	95	761786	25.0	25.3	
33 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	93	247012	25.0	26.5	
34 Acrylonitrile	53	3.575	3.575	0.000	97	1446419	250.0	263.6	
35 Hexane	57	3.703	3.703	0.000	95	467833	25.0	27.9	

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	3.934	3.934	0.000	97	487179	25.0	26.6	
39 Vinyl acetate	43	3.989	3.989	0.000	97	1511822	50.0	52.4	
42 2,2-Dichloropropane	77	4.457	4.457	0.000	84	340828	25.0	26.0	
43 cis-1,2-Dichloroethene	96	4.494	4.494	0.000	84	271572	25.0	24.9	
44 2-Butanone (MEK)	43	4.530	4.530	0.000	97	973683	125.0	142.9	
47 Chlorobromomethane	128	4.731	4.731	0.000	91	147458	25.0	24.7	
49 Tetrahydrofuran	42	4.749	4.749	0.000	92	251613	50.0	50.8	
50 Chloroform	83	4.804	4.804	0.000	95	425133	25.0	26.3	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	95	401370	25.0	27.3	
52 Cyclohexane	56	4.920	4.920	0.000	96	539893	25.0	27.9	
53 Carbon tetrachloride	117	5.053	5.053	0.000	94	363220	25.0	27.3	
54 1,1-Dichloropropene	75	5.066	5.066	0.000	83	322130	25.0	27.2	
55 Benzene	78	5.272	5.272	0.000	93	981550	25.0	26.0	
56 Isobutyl alcohol	43	5.297	5.297	0.000	92	326490	625.0	716.8	
57 1,2-Dichloroethane	62	5.345	5.345	0.000	95	447447	25.0	25.8	
59 n-Heptane	43	5.443	5.443	0.000	96	514732	25.0	27.7	
60 Trichloroethene	95	5.887	5.887	0.000	92	247035	25.0	25.7	
62 Methylcyclohexane	83	5.996	5.996	0.000	95	403200	25.0	28.5	
63 1,2-Dichloropropane	63	6.124	6.124	0.000	83	264088	25.0	25.9	
64 Dibromomethane	93	6.264	6.264	0.000	92	163912	25.0	25.2	
66 1,4-Dioxane	88	6.276	6.276	0.000	32	44662	500.0	604.5	M
67 Dichlorobromomethane	83	6.416	6.416	0.000	96	331657	25.0	27.5	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	89	185193	25.0	25.0	
71 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	83	372420	25.0	26.9	
72 4-Methyl-2-pentanone (MIBK	58	6.982	6.982	0.000	99	687088	125.0	128.3	
73 Toluene	92	7.122	7.122	0.000	97	617458	25.0	24.3	
75 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	93	352026	25.0	25.9	
77 Ethyl methacrylate	69	7.444	7.444	0.000	90	300697	25.0	24.7	
78 1,1,2-Trichloroethane	83	7.596	7.596	0.000	95	175999	25.0	25.3	
79 Tetrachloroethene	166	7.651	7.651	0.000	94	296216	25.0	26.2	
80 1,3-Dichloropropane	76	7.754	7.754	0.000	90	359186	25.0	25.0	
82 2-Hexanone	43	7.821	7.821	0.000	97	1528993	125.0	132.2	
83 Chlorodibromomethane	129	7.998	7.998	0.000	91	259153	25.0	27.1	
84 Ethylene Dibromide	107	8.101	8.101	0.000	97	234777	25.0	25.1	
85 Chlorobenzene	112	8.576	8.576	0.000	93	709746	25.0	24.8	
88 Ethylbenzene	91	8.667	8.667	0.000	98	1172207	25.0	25.4	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	93	280951	25.0	26.5	
90 m-Xylene & p-Xylene	106	8.789	8.789	0.000	98	476550	25.0	26.2	
91 o-Xylene	106	9.215	9.215	0.000	97	459788	25.0	24.4	
92 Styrene	104	9.251	9.251	0.000	95	774379	25.0	25.7	
93 Bromoform	173	9.500	9.500	0.000	97	161056	25.0	27.6	
95 Isopropylbenzene	105	9.598	9.598	0.000	96	1253980	25.0	26.2	
97 Bromobenzene	156	9.945	9.945	0.000	85	322969	25.0	23.6	
98 1,1,2,2-Tetrachloroethane	83	10.005	10.005	0.000	97	285770	25.0	25.0	
100 N-Propylbenzene	91	10.018	10.018	0.000	99	1357971	25.0	25.6	
99 1,2,3-Trichloropropane	110	10.036	10.036	0.000	93	99834	25.0	23.8	
101 trans-1,4-Dichloro-2-buten	53	10.048	10.048	0.000	77	114308	25.0	22.0	
102 2-Chlorotoluene	126	10.127	10.127	0.000	96	301471	25.0	25.8	
104 1,3,5-Trimethylbenzene	105	10.194	10.194	0.000	95	1051009	25.0	26.3	
105 4-Chlorotoluene	91	10.237	10.237	0.000	97	834741	25.0	25.0	
106 tert-Butylbenzene	134	10.516	10.516	0.000	94	243205	25.0	26.6	
108 1,2,4-Trimethylbenzene	105	10.565	10.565	0.000	98	1091074	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
109 sec-Butylbenzene	105	10.723	10.723	0.000	95	1300851	25.0	25.9	
111 4-Isopropyltoluene	119	10.857	10.857	0.000	97	1158046	25.0	26.6	
110 1,3-Dichlorobenzene	146	10.863	10.863	0.000	72	621190	25.0	25.5	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	95	631164	25.0	25.7	
115 n-Butylbenzene	91	11.246	11.246	0.000	97	936736	25.0	26.5	
116 1,2-Dichlorobenzene	146	11.301	11.301	0.000	98	601272	25.0	25.9	
117 1,2-Dibromo-3-Chloropropan	75	12.031	12.031	0.000	79	49001	25.0	25.7	
119 1,2,4-Trichlorobenzene	180	12.700	12.700	0.000	95	420655	25.0	24.5	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	96	184129	25.0	26.3	
121 Naphthalene	128	12.919	12.919	0.000	97	1073547	25.0	25.0	
122 1,2,3-Trichlorobenzene	180	13.120	13.120	0.000	96	390445	25.0	23.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00140	Amount Added:	12.50	Units: uL	
GAS CORP mix_00316	Amount Added:	12.50	Units: uL	
N_8260_Surr_00355	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00134	Amount Added:	1.00	Units: uL	Run Reagent

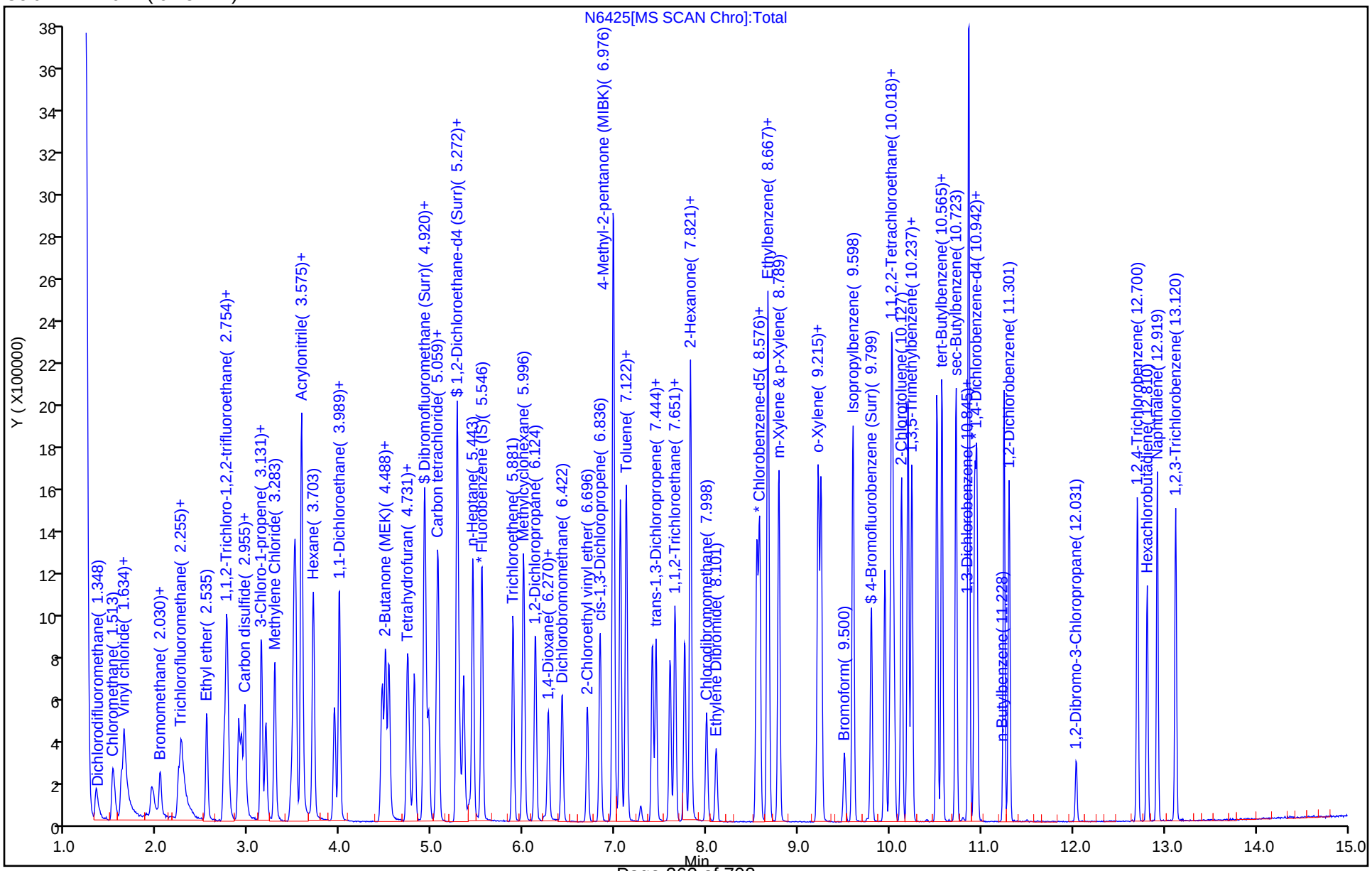
Report Date: 04-Dec-2018 11:10:18 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6425.D

Injection Date:	04-Dec-2018 08:40:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

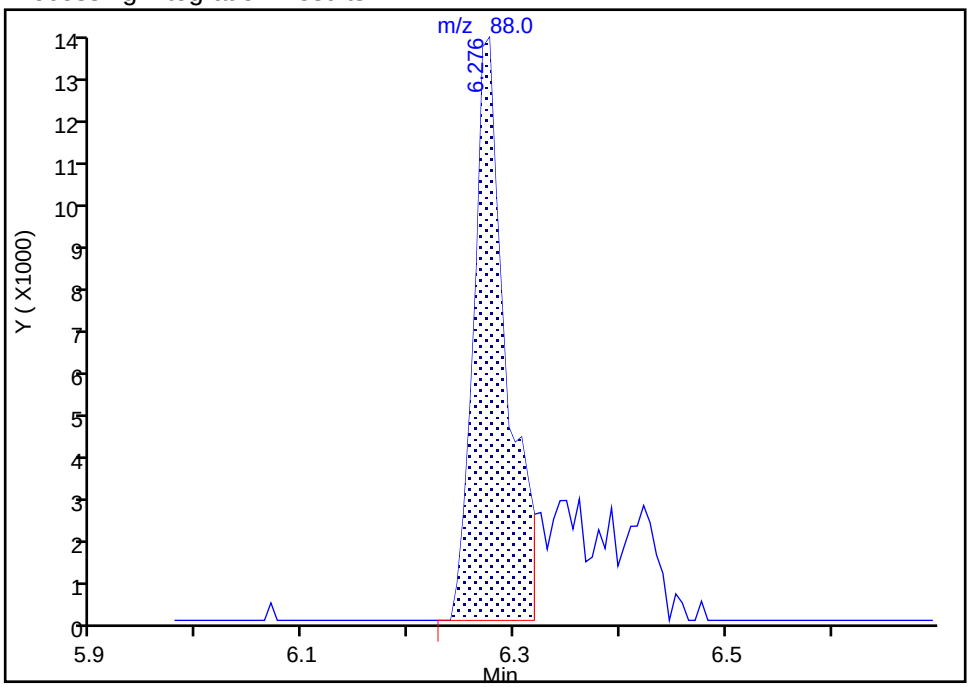
Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6425.D
Injection Date: 04-Dec-2018 08:40:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

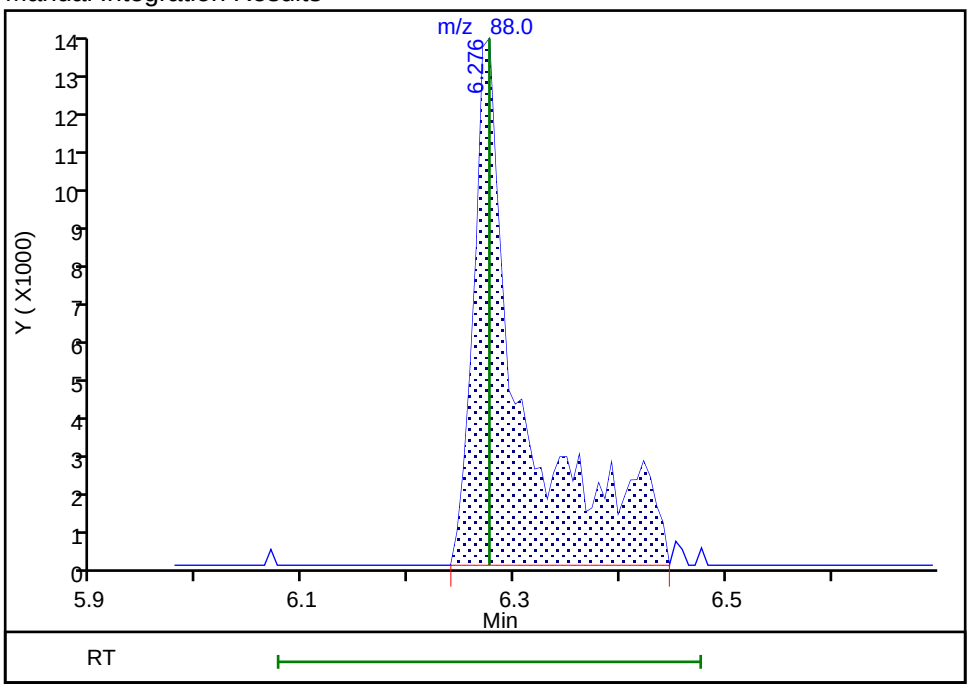
Processing Integration Results

RT: 6.28
Area: 29404
Amount: 401.1425
Amount Units: ug/L



Manual Integration Results

RT: 6.28
Area: 44662
Amount: 604.4942
Amount Units: ug/L



Reviewer: moffata, 04-Dec-2018 09:05:32
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449099/2 Calibration Date: 12/05/2018 09:13

Instrument ID: HP5973P Calib Start Date: 11/23/2018 14:22

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 11/23/2018 17:06

Lab File ID: P38968.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	1.812	1.796	0.1000	24.8	25.0	-0.9	50.0
Chloromethane	Ave	2.875	3.036	0.1000	26.4	25.0	5.6	20.0
Vinyl chloride	Ave	2.438	2.657	0.1000	27.2	25.0	9.0	20.0
Butadiene	Ave	2.345	2.576		27.5	25.0	9.8	20.0
Bromomethane	Ave	1.706	1.557	0.1000	22.8	25.0	-8.7	50.0
Chloroethane	Ave	1.304	1.427	0.1000	27.4	25.0	9.4	50.0
Dichlorofluoromethane	Ave	3.302	3.436		26.0	25.0	4.1	20.0
Trichlorofluoromethane	Ave	2.701	2.743	0.1000	25.4	25.0	1.6	20.0
Ethyl ether	Ave	1.328	1.502		28.3	25.0	13.0	20.0
Acrolein	Ave	0.3217	0.3089		120	125	-4.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.344	1.461	0.1000	27.2	25.0	8.7	20.0
1,1-Dichloroethene	Ave	1.522	1.556	0.1000	25.6	25.0	2.2	20.0
Acetone	Ave	0.8436	0.8572	0.1000	127	125	1.6	50.0
Iodomethane	Ave	2.799	2.497		22.3	25.0	-10.8	20.0
Carbon disulfide	Ave	4.265	4.930	0.1000	28.9	25.0	15.6	20.0
Methyl acetate	Ave	1.702	1.703	0.1000	50.0	50.0	0.0	50.0
Allyl chloride	Ave	2.714	2.883		26.6	25.0	6.2	20.0
Methylene Chloride	Lin1		1.834	0.1000	25.8	25.0	3.3	20.0
2-Methyl-2-propanol	Ave	0.2705	0.2683		248	250	-0.8	50.0
Methyl tert-butyl ether	Ave	4.382	4.613	0.1000	26.3	25.0	5.3	20.0
trans-1,2-Dichloroethene	Ave	1.655	1.629	0.1000	24.6	25.0	-1.6	20.0
Acrylonitrile	Ave	0.7339	0.8151		278	250	11.1	20.0
Hexane	Ave	1.793	2.164		30.2	25.0	20.7*	20.0
Vinyl acetate	Ave	3.711	4.147		55.9	50.0	11.8	20.0
1,1-Dichloroethane	Ave	2.881	3.139	0.2000	27.2	25.0	9.0	20.0
2-Butanone (MEK)	Ave	1.141	1.196	0.1000	131	125	4.9	20.0
2,2-Dichloropropane	Ave	1.898	2.273		29.9	25.0	19.8	20.0
cis-1,2-Dichloroethene	Ave	1.855	1.786	0.1000	24.1	25.0	-3.7	20.0
Chlorobromomethane	Ave	0.9558	0.8344		21.8	25.0	-12.7	20.0
Tetrahydrofuran	Ave	0.6971	0.7231		51.9	50.0	3.7	20.0
Chloroform	Ave	2.785	2.942	0.2000	26.4	25.0	5.7	20.0
1,1,1-Trichloroethane	Ave	2.292	2.499	0.1000	27.3	25.0	9.1	20.0
Cyclohexane	Ave	2.195	2.737	0.1000	31.2	25.0	24.7*	20.0
1,1-Dichloropropene	Ave	2.023	2.313		28.6	25.0	14.3	20.0
Carbon tetrachloride	Ave	2.083	2.175	0.1000	26.1	25.0	4.4	20.0
Isobutyl alcohol	Ave	0.1301	0.1333		640	625	2.4	50.0
Benzene	Ave	5.883	6.368	0.5000	27.1	25.0	8.2	20.0
1,2-Dichloroethane	Ave	2.410	2.524	0.1000	26.2	25.0	4.8	20.0
n-Heptane	Ave	1.428	1.661		29.1	25.0	16.3	20.0
Trichloroethene	Ave	1.655	1.627	0.2000	24.6	25.0	-1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449099/2 Calibration Date: 12/05/2018 09:13

Instrument ID: HP5973P Calib Start Date: 11/23/2018 14:22

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 11/23/2018 17:06

Lab File ID: P38968.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	1.966	2.221	0.1000	28.2	25.0	13.0	20.0
1,2-Dichloropropane	Ave	1.655	1.733	0.1000	26.2	25.0	4.7	20.0
1,4-Dioxane	Ave	0.0082	0.0097		593	500	18.5	50.0
Dibromomethane	Ave	1.202	1.149	0.1000	23.9	25.0	-4.4	20.0
Bromodichloromethane	Ave	2.150	2.257	0.2000	26.2	25.0	5.0	20.0
2-Chloroethyl vinyl ether	Ave	0.6147	0.5791		23.5	25.0	-5.8	20.0
cis-1,3-Dichloropropene	Ave	2.469	2.615	0.2000	26.5	25.0	5.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.009	1.089	0.1000	135	125	8.0	20.0
Toluene	Ave	1.882	1.870	0.4000	24.8	25.0	-0.6	20.0
Ethyl methacrylate	Ave	1.079	1.040		24.1	25.0	-3.7	20.0
trans-1,3-Dichloropropene	Ave	1.121	1.210	0.1000	27.0	25.0	8.0	20.0
1,1,2-Trichloroethane	Ave	0.6211	0.6213	0.1000	25.0	25.0	0.0	20.0
Tetrachloroethene	Ave	0.7787	0.7219	0.2000	23.2	25.0	-7.3	20.0
2-Hexanone	Ave	0.7944	0.8547	0.1000	134	125	7.6	20.0
1,3-Dichloropropane	Ave	1.214	1.280		26.4	25.0	5.5	20.0
Dibromochloromethane	Ave	0.8447	0.7809	0.1000	23.1	25.0	-7.6	20.0
1,2-Dibromoethane	Ave	0.7936	0.7465		23.5	25.0	-5.9	20.0
Chlorobenzene	Ave	2.171	2.076	0.5000	23.9	25.0	-4.4	20.0
Ethylbenzene	Ave	3.313	3.428	0.1000	25.9	25.0	3.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8079	0.7264		22.5	25.0	-10.1	20.0
m,p-Xylene	Ave	1.326	1.326	0.1000	25.0	25.0	0.0	20.0
o-Xylene	Ave	1.327	1.270	0.3000	23.9	25.0	-4.3	20.0
Styrene	Ave	2.236	2.180	0.3000	24.4	25.0	-2.5	20.0
Bromoform	Ave	0.5689	0.5112	0.1000	22.5	25.0	-10.1	50.0
Isopropylbenzene	Ave	2.951	3.333	0.1000	28.2	25.0	13.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9819	1.114	0.3000	28.4	25.0	13.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2755	0.2949		26.8	25.0	7.0	50.0
N-Propylbenzene	Ave	3.424	4.017		29.3	25.0	17.3	20.0
Bromobenzene	Ave	0.9454	0.9385		24.8	25.0	-0.7	20.0
1,2,3-Trichloropropane	Ave	0.2955	0.3223		27.3	25.0	9.1	20.0
1,3,5-Trimethylbenzene	Ave	2.444	2.780		28.4	25.0	13.7	20.0
2-Chlorotoluene	Ave	0.8395	0.8534		25.4	25.0	1.7	20.0
4-Chlorotoluene	Ave	0.8532	0.8717		25.5	25.0	2.2	20.0
tert-Butylbenzene	Ave	0.5307	0.5460		25.7	25.0	2.9	20.0
1,2,4-Trimethylbenzene	Ave	2.566	2.902		28.3	25.0	13.1	20.0
sec-Butylbenzene	Ave	2.817	3.165		28.1	25.0	12.4	20.0
4-Isopropyltoluene	Ave	2.357	2.689		28.5	25.0	14.1	20.0
1,3-Dichlorobenzene	Ave	1.608	1.625	0.6000	25.3	25.0	1.1	20.0
1,4-Dichlorobenzene	Ave	1.670	1.659	0.5000	24.8	25.0	-0.6	20.0
n-Butylbenzene	Ave	2.077	2.491		30.0	25.0	20.0	20.0
1,2-Dichlorobenzene	Ave	1.573	1.566	0.4000	24.9	25.0	-0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449099/2 Calibration Date: 12/05/2018 09:13

Instrument ID: HP5973P Calib Start Date: 11/23/2018 14:22

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 11/23/2018 17:06

Lab File ID: P38968.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	0.2087	0.2262	0.0500	27.1	25.0	8.4	50.0
1,2,4-Trichlorobenzene	Ave	1.047	0.9920	0.2000	23.7	25.0	-5.3	20.0
Hexachlorobutadiene	Ave	0.3196	0.3508		27.4	25.0	9.8	20.0
Naphthalene	Ave	3.063	3.165		25.8	25.0	3.3	20.0
1,2,3-Trichlorobenzene	Ave	1.012	0.9577		23.7	25.0	-5.3	20.0
Dibromofluoromethane (Surr)	Ave	1.439	1.240		21.5	25.0	-13.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8345	0.7934		23.8	25.0	-4.9	20.0
Toluene-d8 (Surr)	Ave	2.405	2.152		22.4	25.0	-10.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7857	0.6558		20.9	25.0	-16.5	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38968.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Dec-2018 09:13:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0077001-002
Operator ID: RF Instrument ID: HP5973P
Sublist: chrom-P-8260H2O*sub11

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Dec-2018 10:04:50 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0302

First Level Reviewer: farrellr Date: 05-Dec-2018 10:04:50

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	10.330	10.330	0.000	98	185299	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.284	14.284	0.000	88	375404	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.247	0.000	96	353940	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.533	9.533	0.000	91	229742	25.0	21.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.989	0.000	0	147009	25.0	23.8	
$ 5 Toluene-d8 (Surr)	98	12.319	12.319	0.000	94	807723	25.0	22.4	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	87	246204	25.0	20.9	
10 Dichlorodifluoromethane	85	4.253	4.253	0.000	98	332823	25.0	24.8	
11 Chloromethane	50	4.666	4.666	0.000	98	562606	25.0	26.4	
17 Vinyl chloride	62	4.849	4.849	0.000	98	492378	25.0	27.2	
144 Butadiene	54	4.897	4.897	0.000	96	477261	25.0	27.5	
12 Bromomethane	94	5.469	5.469	0.000	92	288485	25.0	22.8	
13 Chloroethane	64	5.609	5.609	0.000	97	264395	25.0	27.4	
19 Dichlorofluoromethane	67	5.895	5.895	0.000	98	636714	25.0	26.0	
14 Trichlorofluoromethane	101	5.956	5.956	0.000	98	508345	25.0	25.4	
20 Ethyl ether	59	6.321	6.321	0.000	97	278263	25.0	28.3	
22 Acrolein	56	6.619	6.619	0.000	98	286194	125.0	120.0	
16 1,1,2-Trichloro-1,2,2-trif	101	6.631	6.631	0.000	96	270701	25.0	27.2	
25 1,1-Dichloroethene	96	6.723	6.723	0.000	94	288278	25.0	25.6	
24 Acetone	43	6.802	6.802	0.000	98	794225	125.0	127.0	
18 Iodomethane	142	7.021	7.021	0.000	98	462731	25.0	22.3	
27 Carbon disulfide	76	7.118	7.118	0.000	100	913530	25.0	28.9	
30 Methyl acetate	43	7.173	7.173	0.000	99	631128	50.0	50.0	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	85	534237	25.0	26.6	
31 Methylene Chloride	84	7.392	7.392	0.000	97	339753	25.0	25.8	
33 2-Methyl-2-propanol	59	7.410	7.410	0.000	97	497189	250.0	248.0	
32 Methyl tert-butyl ether	73	7.599	7.599	0.000	99	854811	25.0	26.3	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	94	301826	25.0	24.6	
34 Acrylonitrile	53	7.726	7.726	0.000	98	1510443	250.0	277.7	
36 Hexane	57	7.891	7.891	0.000	96	400941	25.0	30.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	8.189	8.189	0.000	97	1536853	50.0	55.9	
40 1,1-Dichloroethane	63	8.243	8.243	0.000	97	581730	25.0	27.2	
44 2-Butanone (MEK)	43	8.925	8.925	0.000	99	1108308	125.0	131.1	
45 2,2-Dichloropropane	77	8.937	8.937	0.000	91	421215	25.0	29.9	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	86	330889	25.0	24.1	
50 Chlorobromomethane	128	9.290	9.290	0.000	93	154616	25.0	21.8	
51 Tetrahydrofuran	42	9.302	9.302	0.000	91	267991	50.0	51.9	
49 Chloroform	83	9.326	9.326	0.000	96	545160	25.0	26.4	
52 1,1,1-Trichloroethane	97	9.551	9.551	0.000	97	463147	25.0	27.3	
54 Cyclohexane	56	9.594	9.594	0.000	96	507207	25.0	31.2	
56 1,1-Dichloropropene	75	9.734	9.734	0.000	91	428560	25.0	28.6	
53 Isobutyl alcohol	43	9.746	9.746	0.000	94	617412	625.0	640.3	
55 Carbon tetrachloride	117	9.746	9.746	0.000	82	403000	25.0	26.1	
57 Benzene	78	10.032	10.032	0.000	98	1180056	25.0	27.1	
60 1,2-Dichloroethane	62	10.081	10.081	0.000	96	467779	25.0	26.2	
59 n-Heptane	43	10.087	10.087	0.000	94	307741	25.0	29.1	
62 Trichloroethene	95	10.780	10.780	0.000	96	301559	25.0	24.6	
64 Methylcyclohexane	83	10.987	10.987	0.000	95	411616	25.0	28.2	
63 1,2-Dichloropropane	63	11.121	11.121	0.000	91	321113	25.0	26.2	
68 1,4-Dioxane	88	11.237	11.237	0.000	94	73076	500.0	592.5	
69 Dibromomethane	93	11.328	11.328	0.000	91	212972	25.0	23.9	
70 Dichlorobromomethane	83	11.456	11.456	0.000	97	418178	25.0	26.2	
71 2-Chloroethyl vinyl ether	63	11.711	11.711	0.000	93	107301	25.0	23.5	
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	92	484486	25.0	26.5	
75 4-Methyl-2-pentanone (MIBK	43	12.094	12.094	0.000	98	2044469	125.0	135.0	
76 Toluene	92	12.411	12.411	0.000	97	702125	25.0	24.8	
77 Ethyl methacrylate	69	12.636	12.636	0.000	91	390251	25.0	24.1	
78 trans-1,3-Dichloropropene	75	12.703	12.703	0.000	98	454246	25.0	27.0	
79 1,1,2-Trichloroethane	83	12.989	12.989	0.000	94	233228	25.0	25.0	
80 Tetrachloroethene	166	13.141	13.141	0.000	91	270986	25.0	23.2	
83 2-Hexanone	43	13.183	13.183	0.000	99	1604210	125.0	134.5	
82 1,3-Dichloropropane	76	13.226	13.226	0.000	95	480564	25.0	26.4	
81 Chlorodibromomethane	129	13.567	13.567	0.000	88	293145	25.0	23.1	
85 Ethylene Dibromide	107	13.767	13.767	0.000	98	280219	25.0	23.5	
87 Chlorobenzene	112	14.321	14.321	0.000	96	779368	25.0	23.9	
89 Ethylbenzene	91	14.370	14.370	0.000	99	1286880	25.0	25.9	
88 1,1,1,2-Tetrachloroethane	131	14.406	14.406	0.000	94	272704	25.0	22.5	
90 m-Xylene & p-Xylene	106	14.503	14.503	0.000	0	497958	25.0	25.0	
93 o-Xylene	106	15.057	15.057	0.000	97	476589	25.0	23.9	
94 Styrene	104	15.081	15.081	0.000	95	818278	25.0	24.4	
92 Bromoform	173	15.465	15.465	0.000	92	191910	25.0	22.5	
95 Isopropylbenzene	105	15.483	15.483	0.000	98	1179855	25.0	28.2	
97 1,1,2,2-Tetrachloroethane	83	15.957	15.957	0.000	95	394456	25.0	28.4	
98 trans-1,4-Dichloro-2-buten	53	16.006	16.006	0.000	57	104384	25.0	26.8	
99 N-Propylbenzene	91	16.012	16.012	0.000	99	1421683	25.0	29.3	
100 Bromobenzene	156	16.030	16.030	0.000	97	332167	25.0	24.8	
101 1,2,3-Trichloropropane	110	16.049	16.049	0.000	84	114072	25.0	27.3	
102 1,3,5-Trimethylbenzene	105	16.201	16.201	0.000	94	984092	25.0	28.4	
103 2-Chlorotoluene	126	16.219	16.219	0.000	95	302065	25.0	25.4	
105 4-Chlorotoluene	126	16.347	16.347	0.000	98	308538	25.0	25.5	
106 tert-Butylbenzene	134	16.645	16.645	0.000	94	193244	25.0	25.7	
107 1,2,4-Trimethylbenzene	105	16.700	16.700	0.000	99	1027218	25.0	28.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.906	16.906	0.000	95	1120175	25.0	28.1	
112 4-Isopropyltoluene	119	17.052	17.052	0.000	96	951719	25.0	28.5	
110 1,3-Dichlorobenzene	146	17.174	17.174	0.000	96	575273	25.0	25.3	
111 1,4-Dichlorobenzene	146	17.278	17.278	0.000	92	587308	25.0	24.8	
115 n-Butylbenzene	91	17.570	17.570	0.000	98	881829	25.0	30.0	
116 1,2-Dichlorobenzene	146	17.770	17.770	0.000	94	554197	25.0	24.9	
117 1,2-Dibromo-3-Chloropropan	75	18.805	18.805	0.000	80	80053	25.0	27.1	
119 1,2,4-Trichlorobenzene	180	19.906	19.906	0.000	93	351111	25.0	23.7	
120 Hexachlorobutadiene	225	20.027	20.027	0.000	96	124171	25.0	27.4	
121 Naphthalene	128	20.344	20.344	0.000	98	1120140	25.0	25.8	
122 1,2,3-Trichlorobenzene	180	20.721	20.721	0.000	93	338953	25.0	23.7	

Reagents:

8260 CORP mix_00141	Amount Added: 12.50	Units: uL	
GAS CORP mix_00316	Amount Added: 12.50	Units: uL	
P 8260 IS_00341	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added: 1.25	Units: uL	Run Reagent

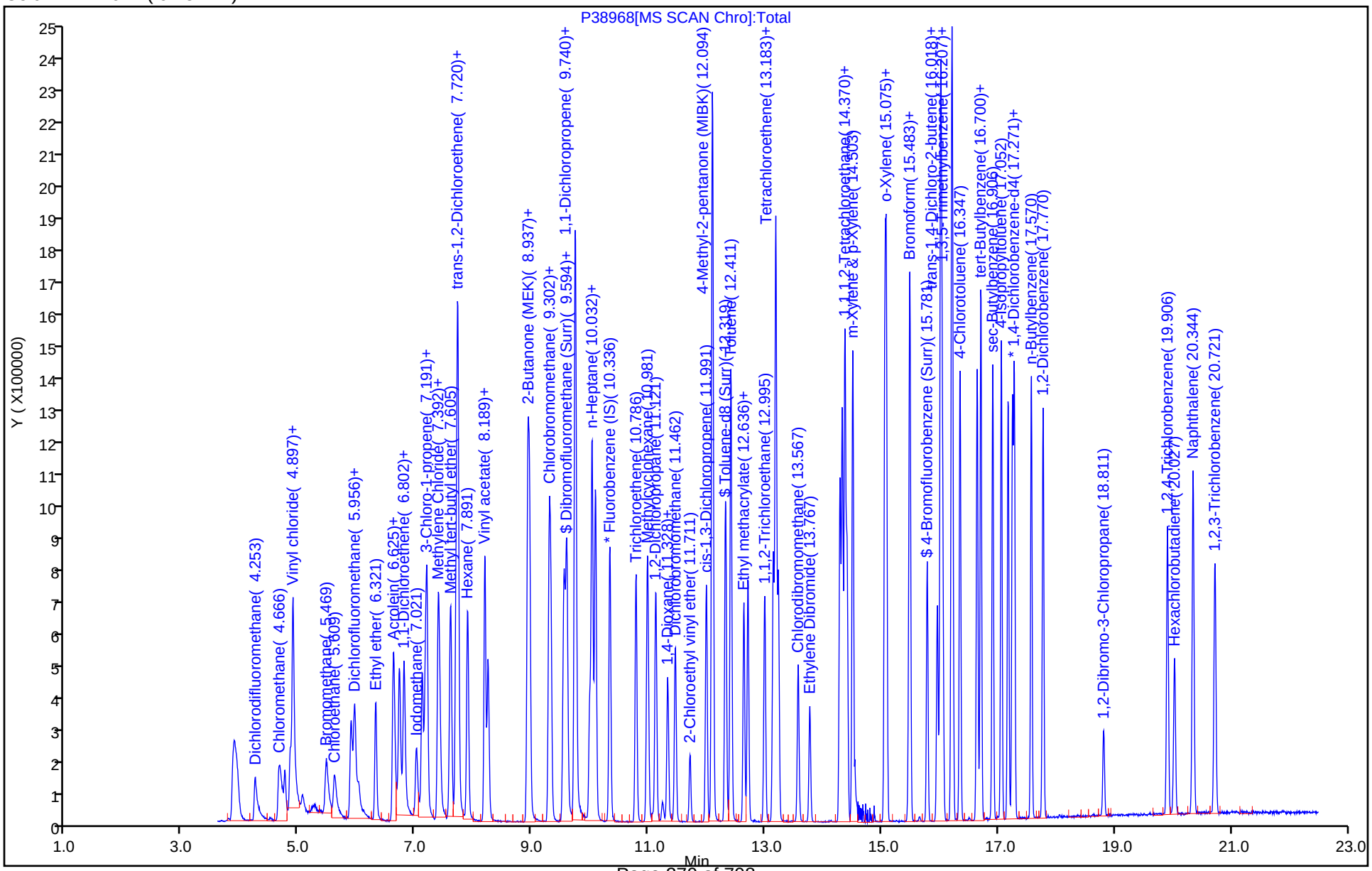
Report Date: 05-Dec-2018 10:04:51 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38968.D

Injection Date:	05-Dec-2018 09:13:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6195.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 27-Nov-2018 13:37:30 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0076774-004
Operator ID: LH Instrument ID: HP5973N

Method: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Nov-2018 12:48:29 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0326

First Level Reviewer: HillL Date: 27-Nov-2018 13:49:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	3.086	3.086	0.000	93	622069	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

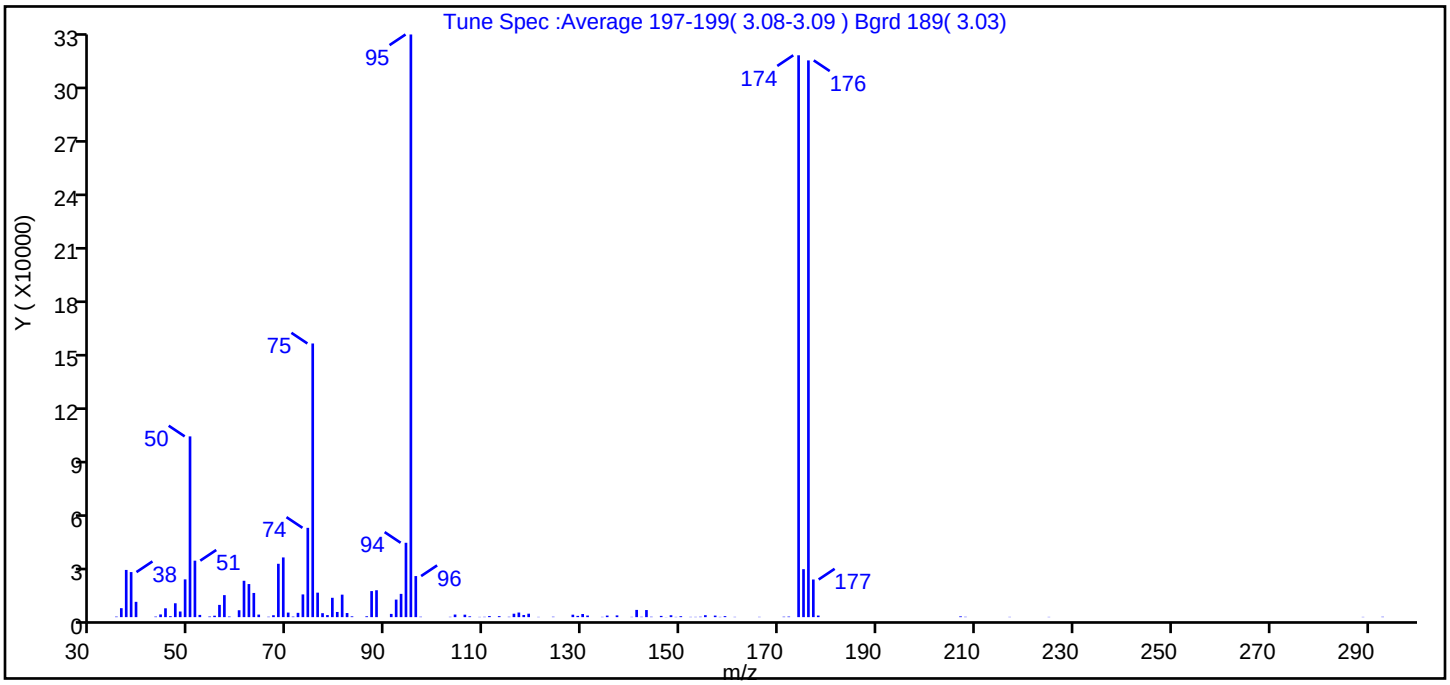
BFB_WRK_00081 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6195.D
Injection Date: 27-Nov-2018 13:37:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 1 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	31.0
75	30 to 60% of m/z 95	47.0
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	96.4
175	5 to 9% of m/z 174	8.2 (8.5)
176	Greater than 95% but less than 101% of m/z 174	95.6 (99.1)
177	5 to 9% of m/z 176	6.5 (6.8)

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6195.D\N-8260.rslt\spectra.d
Injection Date: 27-Nov-2018 13:37:30
Spectrum: Tune Spec :Average 197-199(3.08-3.09) Bgrd 189(3.03)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	286	68.00	29376	104.00	1432	147.00	61
36.00	4935	69.00	32872	106.00	1355	148.00	1043
37.00	25992	70.00	2509	107.00	435	149.00	139
38.00	24808	71.00	300	109.00	137	150.00	513
39.00	8424	72.00	2366	110.00	183	152.00	149
43.00	300	73.00	12516	111.00	596	153.00	153
44.00	1483	74.00	49168	113.00	546	154.00	228
45.00	4873	75.00	150656	115.00	203	155.00	1063
46.00	509	76.00	13482	116.00	1892	157.00	849
47.00	7635	77.00	2185	117.00	2533	158.00	147
48.00	3105	78.00	1131	118.00	1188	159.00	565
49.00	20792	79.00	10656	119.00	1892	161.00	154
50.00	99512	80.00	2849	121.00	139	166.00	160
51.00	31096	81.00	12386	124.00	224	171.00	239
52.00	1229	82.00	2265	128.00	1355	172.00	311
54.00	336	83.00	439	129.00	705	174.00	309312
55.00	792	86.00	480	130.00	1731	175.00	26408
56.00	6744	87.00	14342	131.00	872	176.00	306496
57.00	12119	88.00	14804	134.00	158	177.00	20728
58.00	328	91.00	1783	135.00	864	178.00	876
60.00	3797	92.00	9658	137.00	956	207.00	424
61.00	20024	93.00	12808	140.00	160	208.00	189
62.00	18216	94.00	40944	141.00	3984	217.00	146
63.00	13319	95.00	320768	142.00	205	225.00	136
64.00	1403	96.00	22616	143.00	3906	289.00	134
66.00	214	97.00	222	144.00	218	293.00	203
67.00	1043	103.00	175	146.00	692		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6424.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	04-Dec-2018 08:16:30	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0076958-002				
Operator ID:	AM	Instrument ID:	HP5973N		
Method:	\\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	04-Dec-2018 08:25:25	Calib Date:	27-Nov-2018 22:39:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX0330				
First Level Reviewer: moffata		Date:	04-Dec-2018 08:25:25		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	3.056	3.056	0.000	94	587946	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

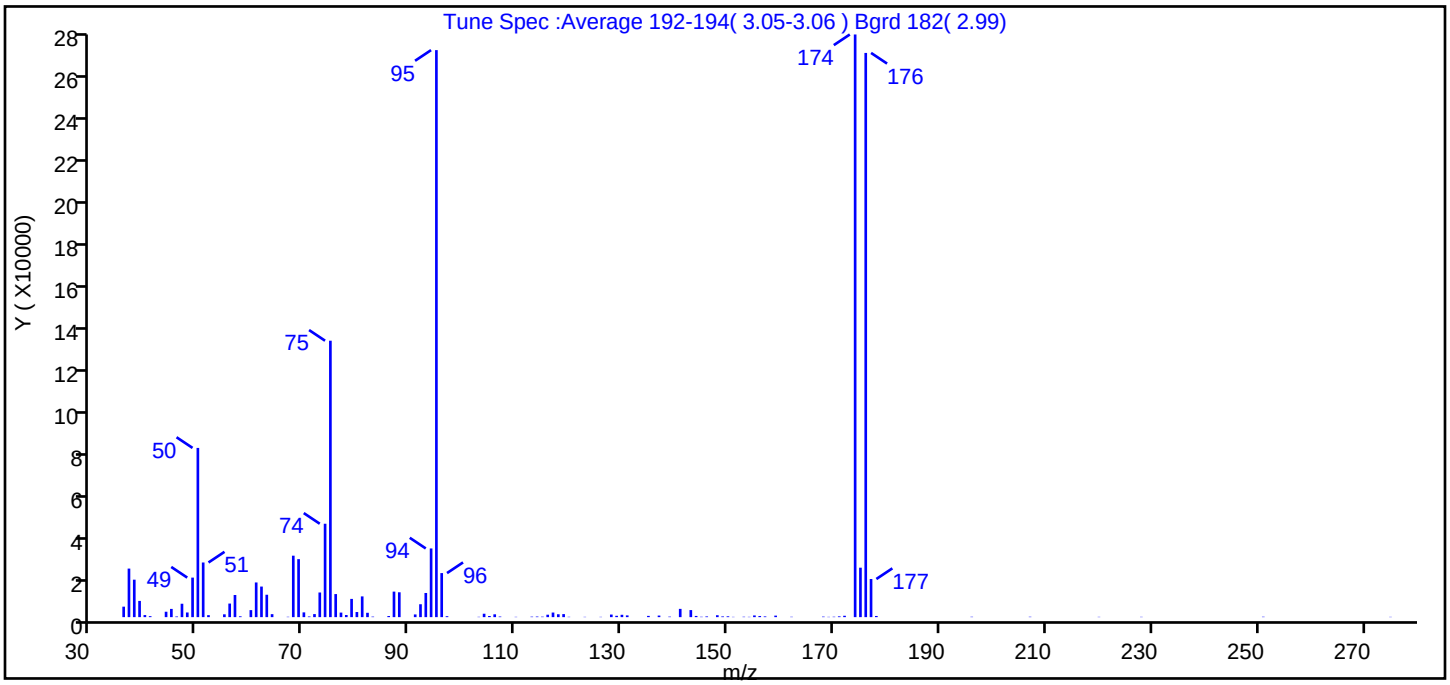
BFB_WRK_00080 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6424.D
Injection Date: 04-Dec-2018 08:16:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: AM ALS Bottle#: 2 Worklist Smp#: 2
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	29.8
75	30 to 60% of m/z 95	48.8
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	102.8
175	5 to 9% of m/z 174	8.7 (8.5)
176	Greater than 95% but less than 101% of m/z 174	99.5 (96.8)
177	5 to 9% of m/z 176	6.7 (6.8)

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6424.D\N-8260.rslt\spectra.d
Injection Date: 04-Dec-2018 08:16:30
Spectrum: Tune Spec :Average 192-194(3.05-3.06) Bgrd 182(2.99)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5020	70.00	2283	106.00	1357	150.00	396
37.00	23248	71.00	309	107.00	282	151.00	136
38.00	17936	72.00	1462	110.00	143	153.00	194
39.00	7770	73.00	11801	113.00	235	154.00	145
40.00	993	74.00	44720	114.00	285	155.00	814
41.00	459	75.00	132352	115.00	227	156.00	528
44.00	2590	76.00	11045	116.00	1166	157.00	346
45.00	3946	77.00	2177	117.00	2202	159.00	729
46.00	312	78.00	1019	118.00	1382	162.00	174
47.00	6419	79.00	8735	119.00	1459	168.00	248
48.00	2234	80.00	2447	120.00	160	169.00	140
49.00	18928	81.00	9932	123.00	137	170.00	201
50.00	81024	82.00	2085	126.00	139	171.00	380
51.00	26168	83.00	251	128.00	1240	172.00	661
52.00	951	86.00	522	129.00	643	174.00	278976
55.00	1354	87.00	12222	130.00	1126	175.00	23680
56.00	6502	88.00	11904	131.00	833	176.00	270144
57.00	10602	91.00	1296	135.00	606	177.00	18264
58.00	390	92.00	6179	137.00	755	178.00	558
60.00	3365	93.00	11569	139.00	246	196.00	181
61.00	16608	94.00	32888	141.00	3959	207.00	190
62.00	14642	95.00	271488	143.00	3380	220.00	141
63.00	10724	96.00	21096	144.00	575	228.00	145
64.00	1431	97.00	444	145.00	184	251.00	195
67.00	174	103.00	154	146.00	338	275.00	134
68.00	29424	104.00	1635	148.00	916		
69.00	27768	105.00	546	149.00	343		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38542.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	23-Nov-2018 13:27:30	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0076682-005				
Operator ID:	RF	Instrument ID:	HP5973P		
Method:	\\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	25-Nov-2018 09:17:14	Calib Date:	23-Nov-2018 20:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX0312				
First Level Reviewer: farrellr		Date:	23-Nov-2018 13:38:10		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.548	7.548	0.000	0	87933	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

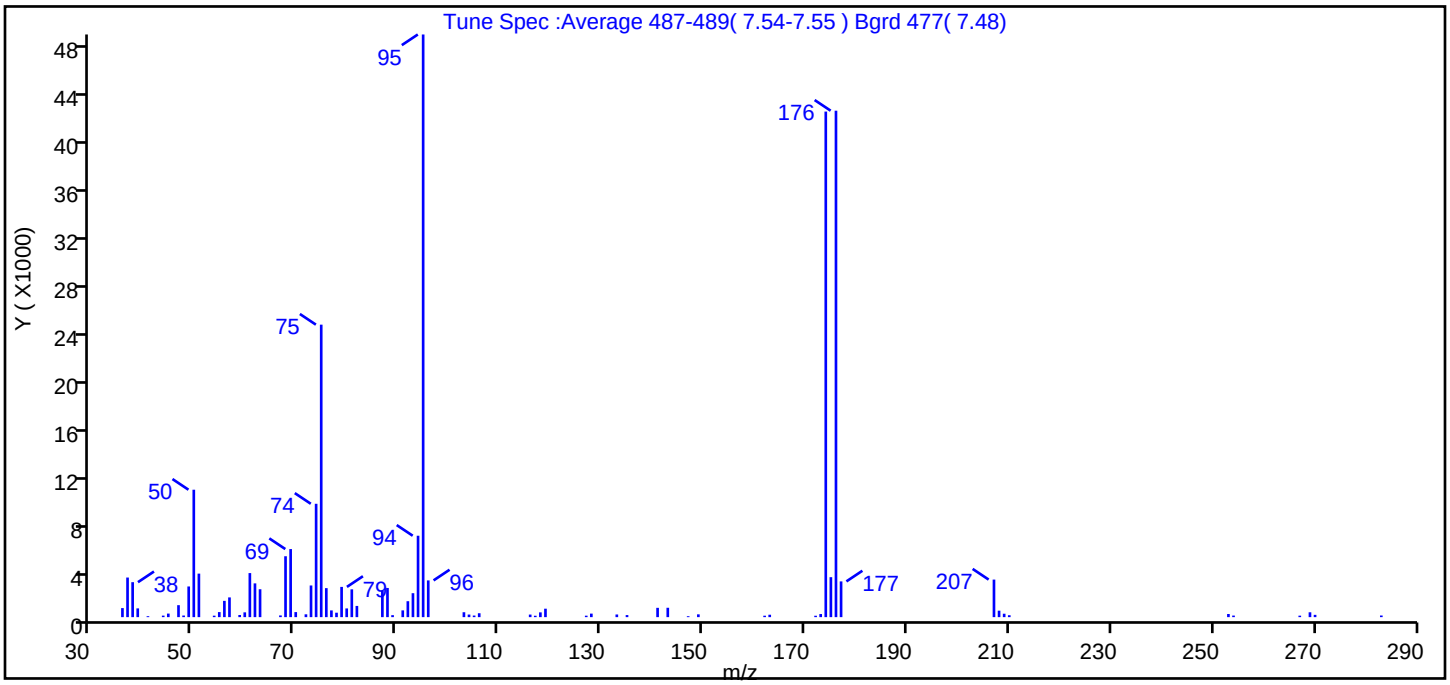
BFB_WRK_00081 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38542.D
Injection Date: 23-Nov-2018 13:27:30 Instrument ID: HP5973P
Lims ID: BFB
Client ID:
Operator ID: RF ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.9
75	30 to 60% of m/z 95	50.2
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	86.8
175	5 to 9% of m/z 174	6.9 (7.9)
176	Greater than 95% but less than 101% of m/z 174	86.9 (100.2)
177	5 to 9% of m/z 176	6.1 (7.1)

Data File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38542.D\P-8260H2O.rslt\spectra.
Injection Date: 23-Nov-2018 13:27:30
Spectrum: Tune Spec :Average 487-489(7.54-7.55) Bgrd 477(7.48)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 79

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	752	63.00	2319	92.00	1325	149.00	233
37.00	3292	67.00	141	93.00	1991	162.00	120
38.00	2906	68.00	5062	94.00	6767	163.00	201
39.00	728	69.00	5659	95.00	48432	172.00	117
41.00	78	70.00	420	96.00	3054	173.00	258
44.00	127	72.00	236	103.00	408	174.00	42024
45.00	296	73.00	2632	104.00	215	175.00	3322
47.00	995	74.00	9423	105.00	133	176.00	42096
48.00	134	75.00	24312	106.00	325	177.00	2971
49.00	2550	76.00	2411	116.00	214	207.00	3122
50.00	10592	77.00	560	117.00	117	208.00	537
51.00	3618	78.00	369	118.00	397	209.00	284
54.00	122	79.00	2514	119.00	702	210.00	159
55.00	419	80.00	724	127.00	122	253.00	261
56.00	1354	81.00	2312	128.00	294	254.00	131
57.00	1641	82.00	932	133.00	221	267.00	123
59.00	179	87.00	2197	135.00	172	269.00	404
60.00	399	88.00	2425	141.00	774	270.00	191
61.00	3662	89.00	165	143.00	779	283.00	136
62.00	2807	91.00	563	147.00	76		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38967.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Dec-2018 08:46:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0077001-001				
Operator ID:	RF	Instrument ID:	HP5973P		
Method:	\\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	05-Dec-2018 08:59:10	Calib Date:	23-Nov-2018 20:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX0302				
First Level Reviewer: farrellr		Date:	05-Dec-2018 08:59:10		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 21 BFB	95	7.548	7.548	0.000	0	101498	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

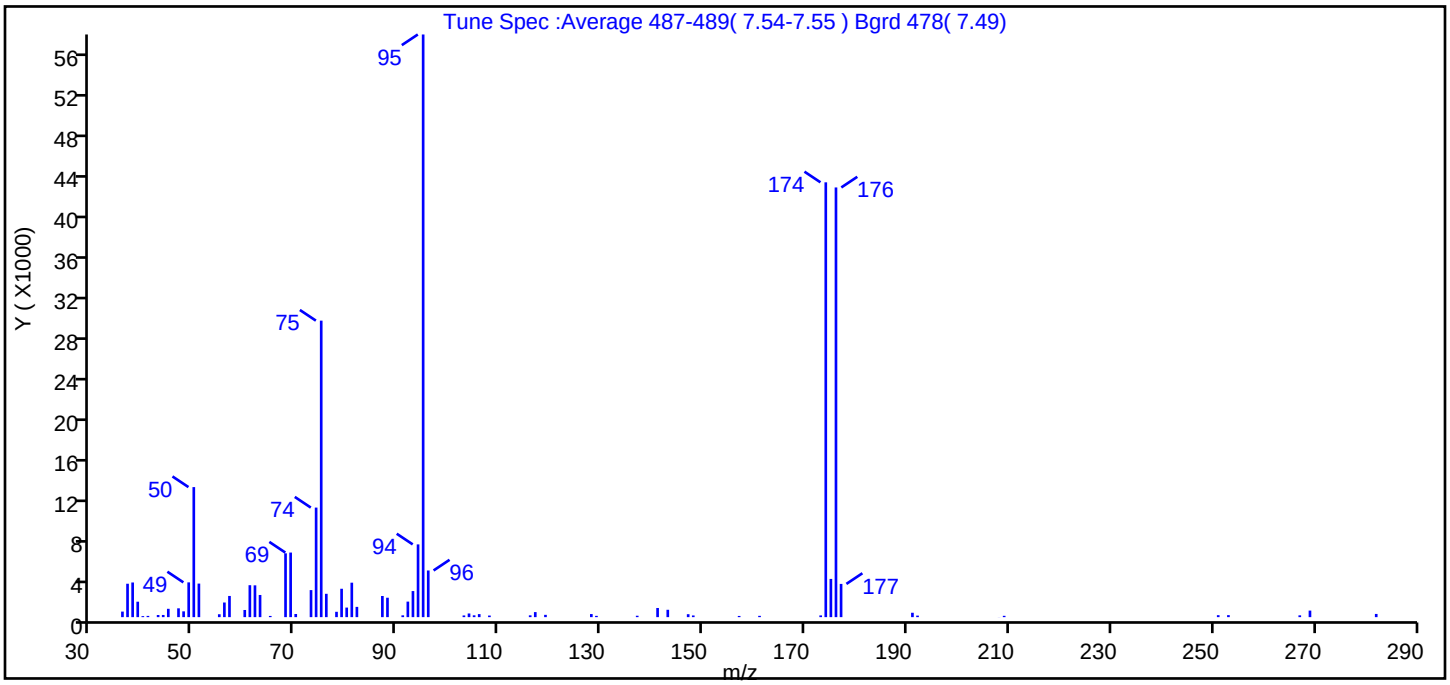
BFB_WRK_00080 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38967.D
Injection Date: 05-Dec-2018 08:46:30 Instrument ID: HP5973P
Lims ID: BFB
Client ID:
Operator ID: RF ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.3
75	30 to 60% of m/z 95	50.9
96	5 to 9% of m/z 95	8.0
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	74.6
175	5 to 9% of m/z 174	6.6 (8.8)
176	Greater than 95% but less than 101% of m/z 174	73.7 (98.8)
177	5 to 9% of m/z 176	5.7 (7.7)

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38967.D\P-8260H2O.rslt\spectra.d
Injection Date: 05-Dec-2018 08:46:30
Spectrum: Tune Spec :Average 487-489(7.54-7.55) Bgrd 478(7.49)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	546	62.00	3123	93.00	2561	157.00	118
37.00	3281	63.00	2177	94.00	7145	161.00	128
38.00	3404	65.00	119	95.00	57224	173.00	169
39.00	1516	68.00	6269	96.00	4583	174.00	42704
40.00	100	69.00	6343	103.00	167	175.00	3754
41.00	123	70.00	309	104.00	359	176.00	42200
43.00	209	73.00	2656	105.00	180	177.00	3264
44.00	214	74.00	10760	106.00	298	191.00	431
45.00	819	75.00	29120	108.00	157	192.00	151
47.00	866	76.00	2292	116.00	177	208.00	8
48.00	570	78.00	526	117.00	496	209.00	130
49.00	3415	79.00	2788	119.00	226	251.00	193
50.00	12772	80.00	939	128.00	303	253.00	197
51.00	3296	81.00	3385	129.00	126	267.00	177
55.00	285	82.00	1008	137.00	138	269.00	643
56.00	1438	87.00	2077	141.00	899	282.00	315
57.00	2081	88.00	1907	143.00	723		
60.00	703	91.00	178	147.00	289		
61.00	3137	92.00	1525	148.00	165		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-448834/7

Matrix: Water | Lab File ID: N6429.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/04/2018 10:30

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.: 448834 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-448834/7

Matrix: Water | Lab File ID: N6429.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/04/2018 10:30

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.: 448834 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6429.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 04-Dec-2018 10:30:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0076958-007
Operator ID: AM Instrument ID: HP5973N

Method: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 04-Dec-2018 17:31:49 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0329

First Level Reviewer: moffata Date: 04-Dec-2018 11:00:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.546	5.540	0.006	98	159171	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	88	661806	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.930	10.930	0.000	96	351850	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.962	4.968	0.000	93	217423	25.0	26.1	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	299995	25.0	26.1	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	825040	25.0	24.2	
$ 7 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	92	273208	25.0	25.2	
11 Dichlorodifluoromethane	85		1.330					ND	
12 Chlorodifluoromethane	51		1.355					ND	U
13 Chloromethane	50		1.513					ND	
14 Vinyl chloride	62		1.610					ND	
144 Butadiene	54		1.634					ND	
15 Bromomethane	94		1.932					ND	U
16 Chloroethane	64		2.030					ND	
18 Trichlorofluoromethane	101		2.231					ND	
17 Dichlorofluoromethane	67		2.255					ND	
19 Ethyl ether	59		2.535					ND	
141 Ethanol	45		2.565					ND	
81 Propene oxide	58		2.632					ND	
20 Acrolein	56		2.729					ND	
22 1,1-Dichloroethene	96		2.754					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.766					ND	
23 Acetone	43		2.888					ND	
24 Iodomethane	142		2.918					ND	
25 Carbon disulfide	76		2.955					ND	U
26 Isopropyl alcohol	45		3.076					ND	
27 3-Chloro-1-propene	41		3.131					ND	
28 Methyl acetate	43		3.186					ND	
29 Acetonitrile	40		3.198					ND	
30 Methylene Chloride	84		3.283					ND	MU
31 2-Methyl-2-propanol	59		3.459					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		3.490					ND	
33 trans-1,2-Dichloroethene	96		3.508					ND	
34 Acrylonitrile	53		3.575					ND	
35 Hexane	57		3.703					ND	
36 1,1-Dichloroethane	63		3.934					ND	
37 Isopropyl ether	45		3.940					ND	
38 2-Chloro-1,3-butadiene	53		3.989					ND	U
39 Vinyl acetate	43		3.989					ND	U
40 1,1-Dimethoxyethane	75		4.019					ND	
41 Tert-butyl ethyl ether	59		4.281					ND	
42 2,2-Dichloropropane	77		4.457					ND	
43 cis-1,2-Dichloroethene	96		4.494					ND	
44 2-Butanone (MEK)	43		4.530					ND	U
45 Ethyl acetate	43		4.554					ND	U
46 Propionitrile	54		4.634					ND	
47 Chlorobromomethane	128		4.731					ND	
48 Methacrylonitrile	67		4.743					ND	
49 Tetrahydrofuran	42		4.749					ND	
50 Chloroform	83		4.804					ND	
51 1,1,1-Trichloroethane	97		4.913					ND	
52 Cyclohexane	56		4.920					ND	
53 Carbon tetrachloride	117		5.053					ND	
54 1,1-Dichloropropene	75		5.066					ND	
146 Isooctane	57		5.260					ND	
55 Benzene	78		5.272					ND	
56 Isobutyl alcohol	43		5.297					ND	
58 Tert-amyl methyl ether	73		5.345					ND	
57 1,2-Dichloroethane	62		5.345					ND	
140 t-Amyl alcohol	59		5.351					ND	
59 n-Heptane	43		5.443					ND	
1 1,4-Difluorobenzene	114		5.650					ND	
60 Trichloroethene	95		5.887					ND	
61 n-Butanol	56		5.917					ND	
62 Methylcyclohexane	83		5.996					ND	
145 Ethyl acrylate	55		6.002					ND	
63 1,2-Dichloropropane	63		6.124					ND	
65 Methyl methacrylate	41		6.221					ND	
64 Dibromomethane	93		6.264					ND	
66 1,4-Dioxane	88		6.276					ND	
67 Dichlorobromomethane	83		6.416					ND	
68 2-Nitropropane	43		6.672					ND	
69 2-Chloroethyl vinyl ether	63		6.696					ND	
70 Epichlorohydrin	57		6.793					ND	
71 cis-1,3-Dichloropropene	75		6.836					ND	
72 4-Methyl-2-pentanone (MIBK	58		6.982					ND	U
73 Toluene	92		7.122					ND	
74 2-Methylthiophene	97		7.262					ND	
75 trans-1,3-Dichloropropene	75		7.408					ND	
76 3-Methylthiophene	97		7.426					ND	
77 Ethyl methacrylate	69		7.444					ND	
78 1,1,2-Trichloroethane	83		7.596					ND	
79 Tetrachloroethene	166		7.651					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		7.754					ND	
82 2-Hexanone	43		7.821					ND	
149 n-Butyl acetate	43		7.925					ND	
83 Chlorodibromomethane	129		7.998					ND	
84 Ethylene Dibromide	107		8.101					ND	
139 1-Chlorohexane	55		8.521					ND	U
86 3-Chlorobenzotrifluoride	180		8.539					ND	
85 Chlorobenzene	112		8.576					ND	
87 4-Chlorobenzotrifluoride	180		8.600					ND	
88 Ethylbenzene	91		8.667					ND	
89 1,1,1,2-Tetrachloroethane	131		8.673					ND	
90 m-Xylene & p-Xylene	106		8.789					ND	
91 o-Xylene	106		9.215					ND	
92 Styrene	104		9.251					ND	
93 Bromoform	173		9.500					ND	
94 2-Chlorobenzotrifluoride	180		9.525					ND	
95 Isopropylbenzene	105		9.598					ND	
96 Cyclohexanone	55		9.774					ND	U
97 Bromobenzene	156		9.945					ND	
98 1,1,2,2-Tetrachloroethane	83		10.005					ND	
100 N-Propylbenzene	91		10.018					ND	
99 1,2,3-Trichloropropane	110		10.036					ND	
101 trans-1,4-Dichloro-2-buten	53		10.048					ND	
102 2-Chlorotoluene	126		10.127					ND	
103 3-Chlorotoluene	126		10.188					ND	
104 1,3,5-Trimethylbenzene	105		10.194					ND	
105 4-Chlorotoluene	91		10.237					ND	
106 tert-Butylbenzene	134		10.516					ND	
108 1,2,4-Trimethylbenzene	105		10.565					ND	
107 Pentachloroethane	167		10.577					ND	
109 sec-Butylbenzene	105		10.723					ND	
111 4-Isopropyltoluene	119		10.857					ND	
110 1,3-Dichlorobenzene	146		10.863					ND	
112 Dicyclopentadiene	66		10.924					ND	U
113 1,4-Dichlorobenzene	146		10.948					ND	
114 1,2,3-Trimethylbenzene	105		10.973					ND	
143 Benzyl chloride	126		11.094					ND	
115 n-Butylbenzene	91		11.246					ND	
116 1,2-Dichlorobenzene	146		11.301					ND	
117 1,2-Dibromo-3-Chloropropan	75		12.031					ND	
118 1,3,5-Trichlorobenzene	180		12.159					ND	
119 1,2,4-Trichlorobenzene	180		12.700					ND	
120 Hexachlorobutadiene	225		12.810					ND	
121 Naphthalene	128		12.919					ND	
122 1,2,3-Trichlorobenzene	180		13.120					ND	
142 2-Methylnaphthalene	142		13.832					ND	U
138 1-Bromopropane	1		0.000					ND	
133 Halothane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					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	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

N_8260_Surr_00355	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00134	Amount Added:	1.00	Units: uL	Run Reagent

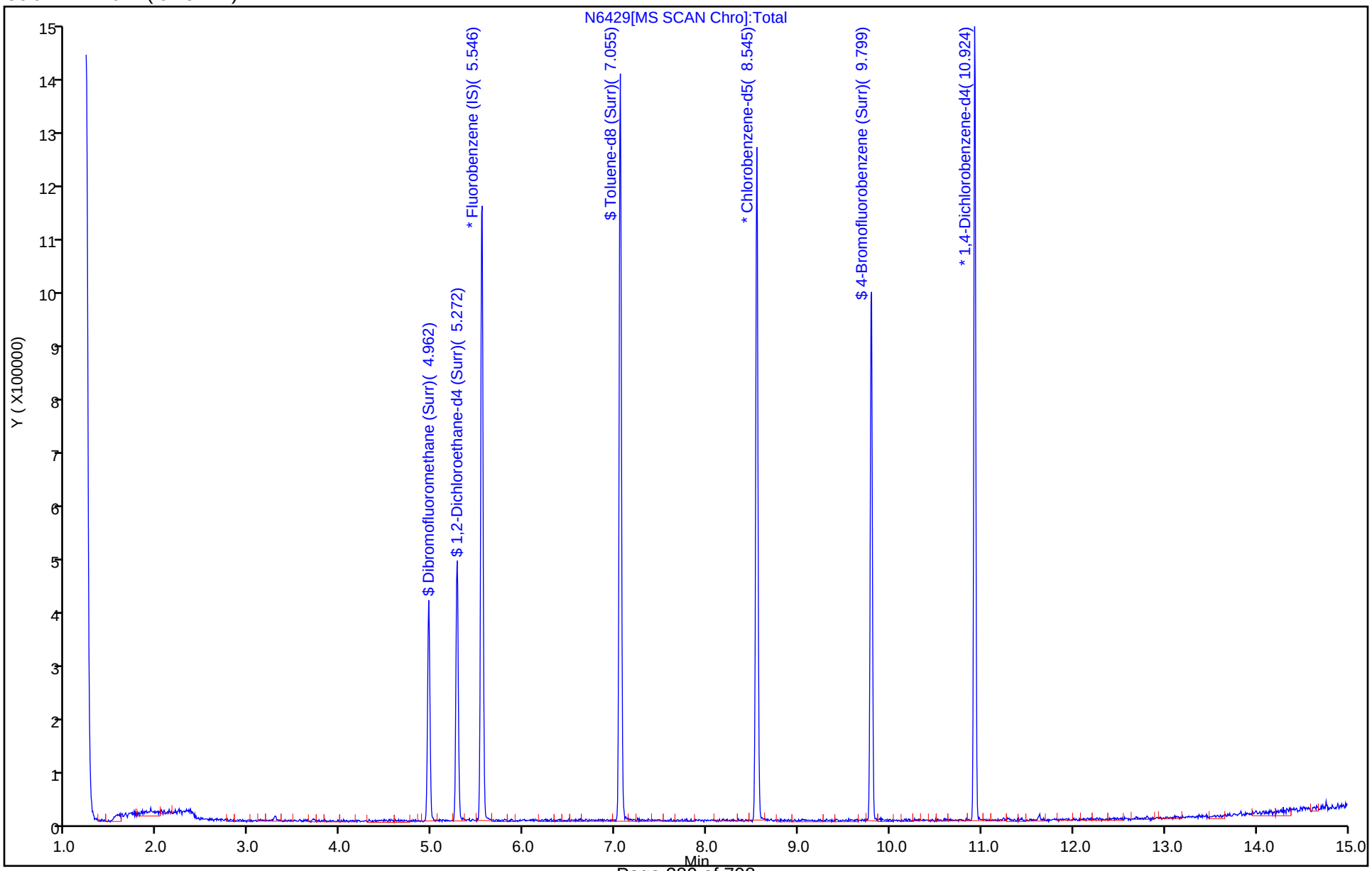
Report Date: 04-Dec-2018 19:45:38 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6429.D

Injection Date:	04-Dec-2018 10:30:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
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)



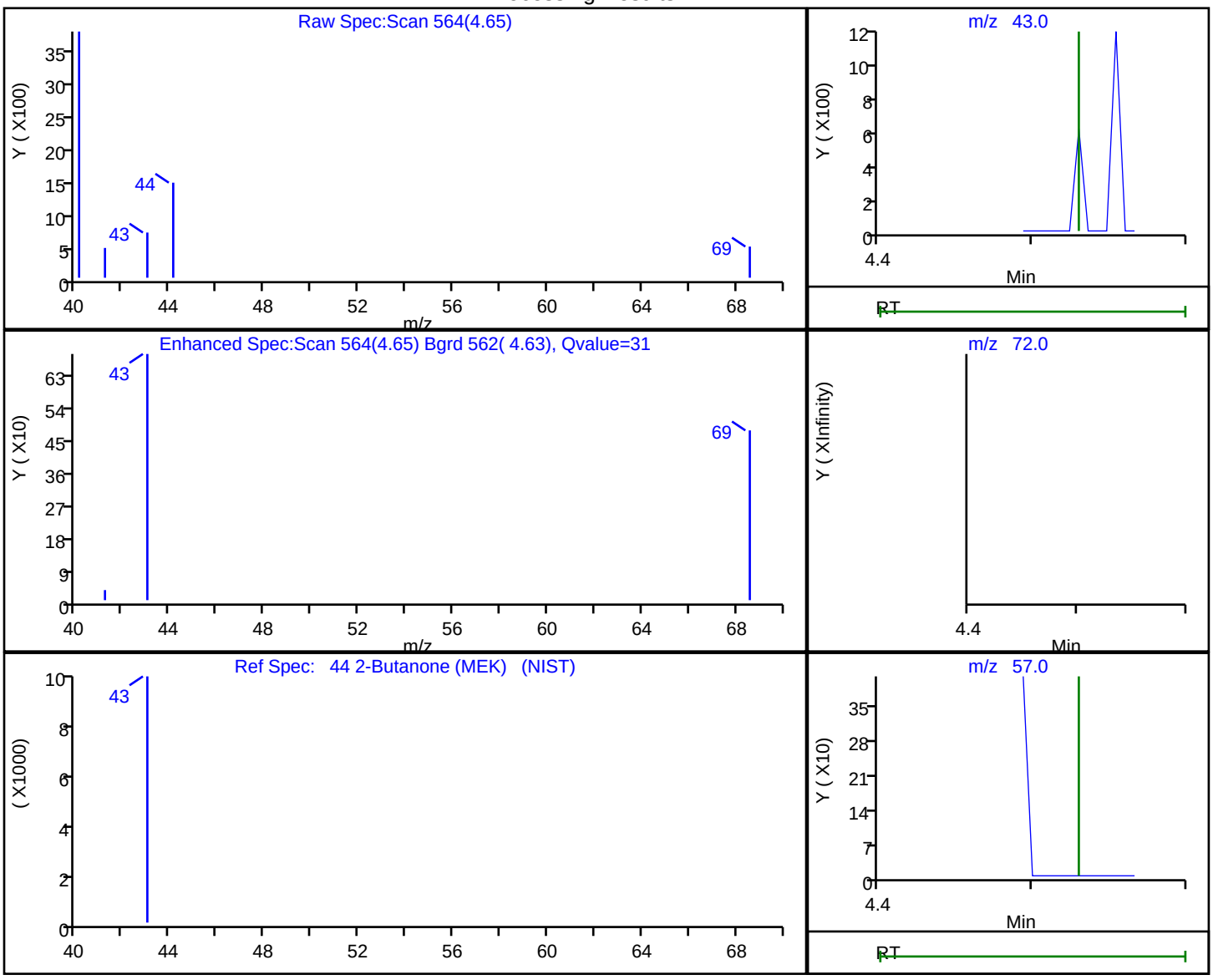
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6429.D
Injection Date: 04-Dec-2018 10:30:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AM 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

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.65	43.00	250	0.038658
4.53	72.00	0	
4.53	57.00	0	

Reviewer: moffata, 04-Dec-2018 11:00:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

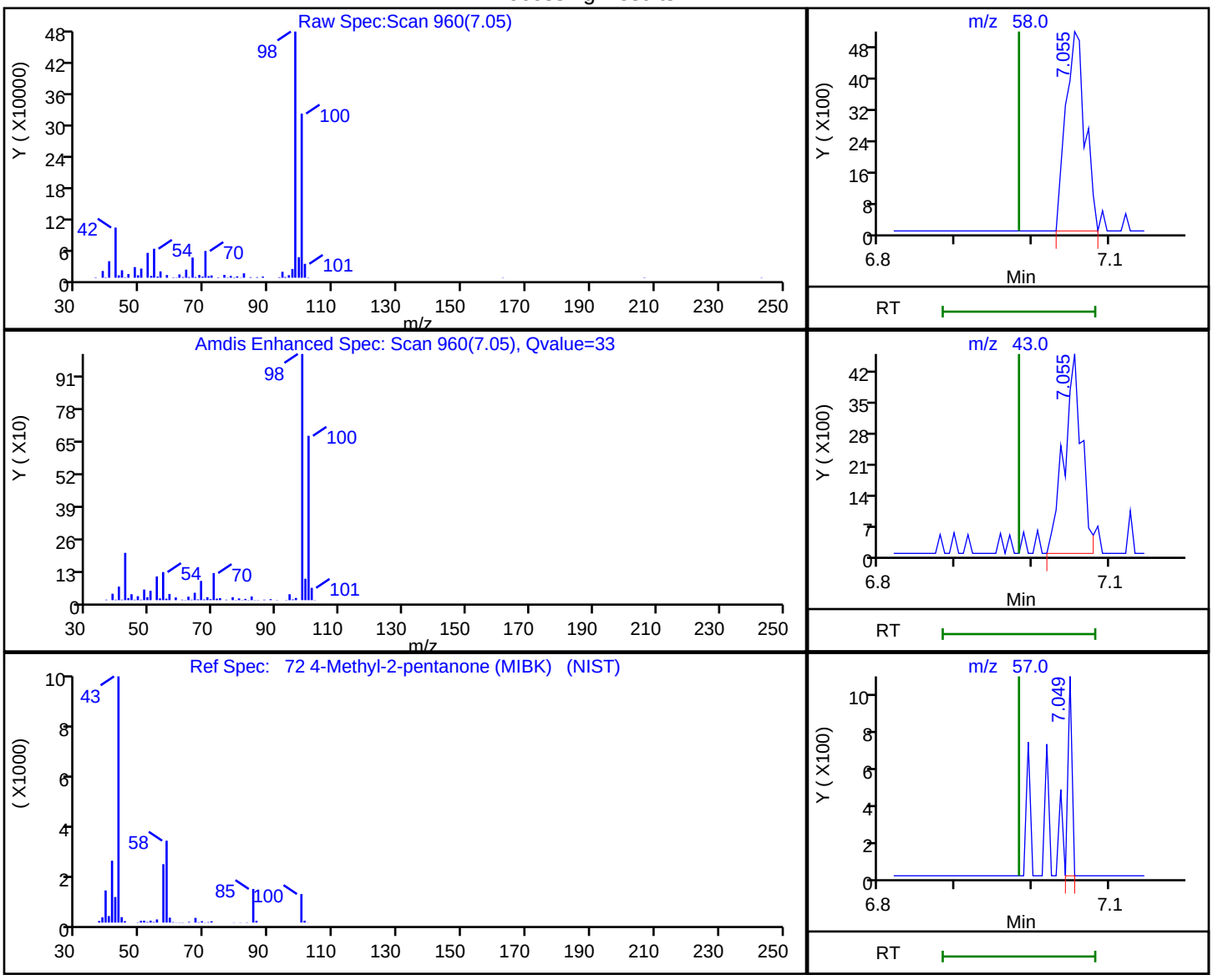
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6429.D
Injection Date: 04-Dec-2018 10:30:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AM 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

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
7.05	58.00	8988	1.769898
7.05	43.00	7332	
7.05	57.00	387	

Reviewer: moffata, 04-Dec-2018 11:00:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

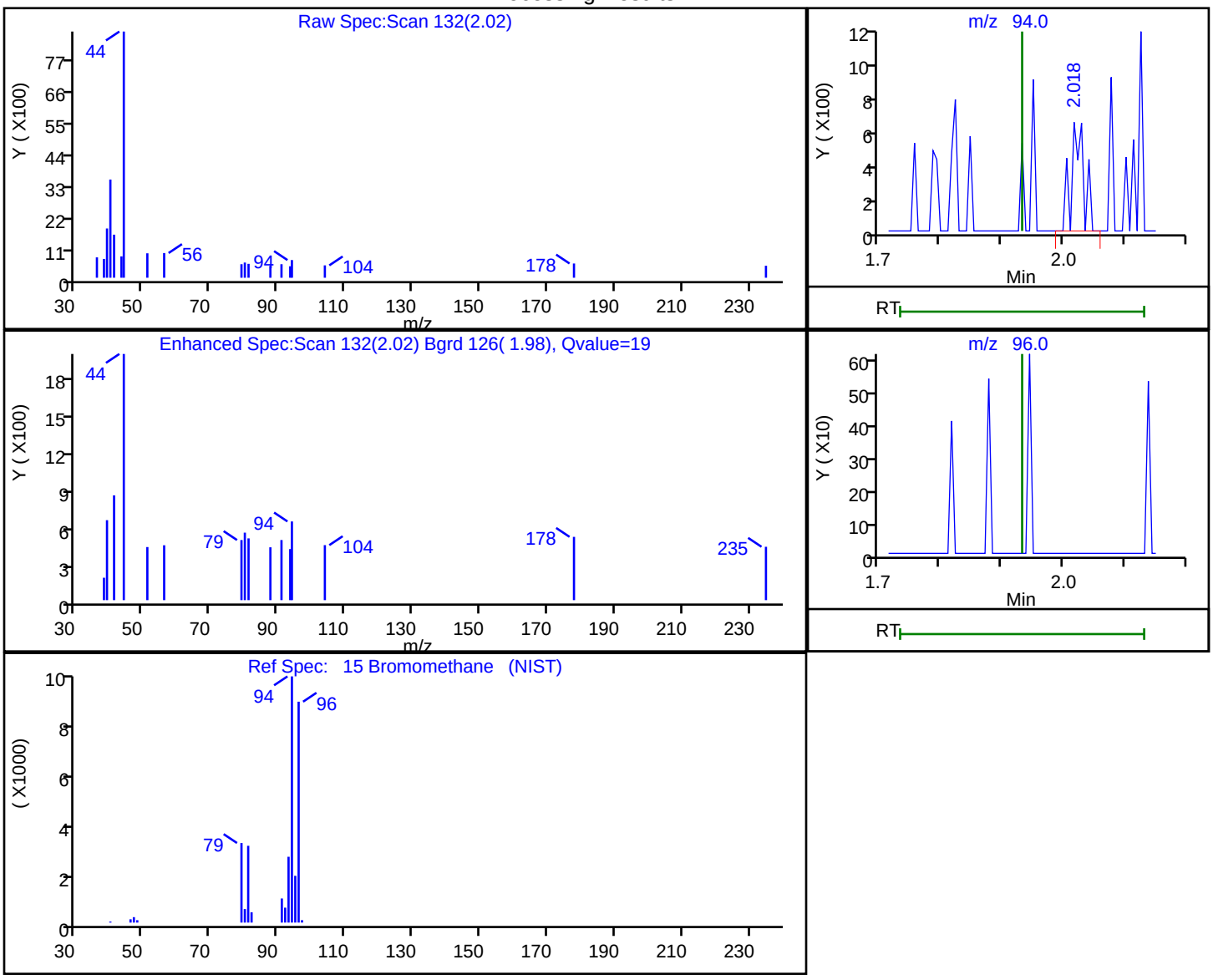
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6429.D
Injection Date: 04-Dec-2018 10:30:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AM 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

15 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.02	94.00	897	0.139107
1.93	96.00	0	

Reviewer: moffata, 04-Dec-2018 11:00:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

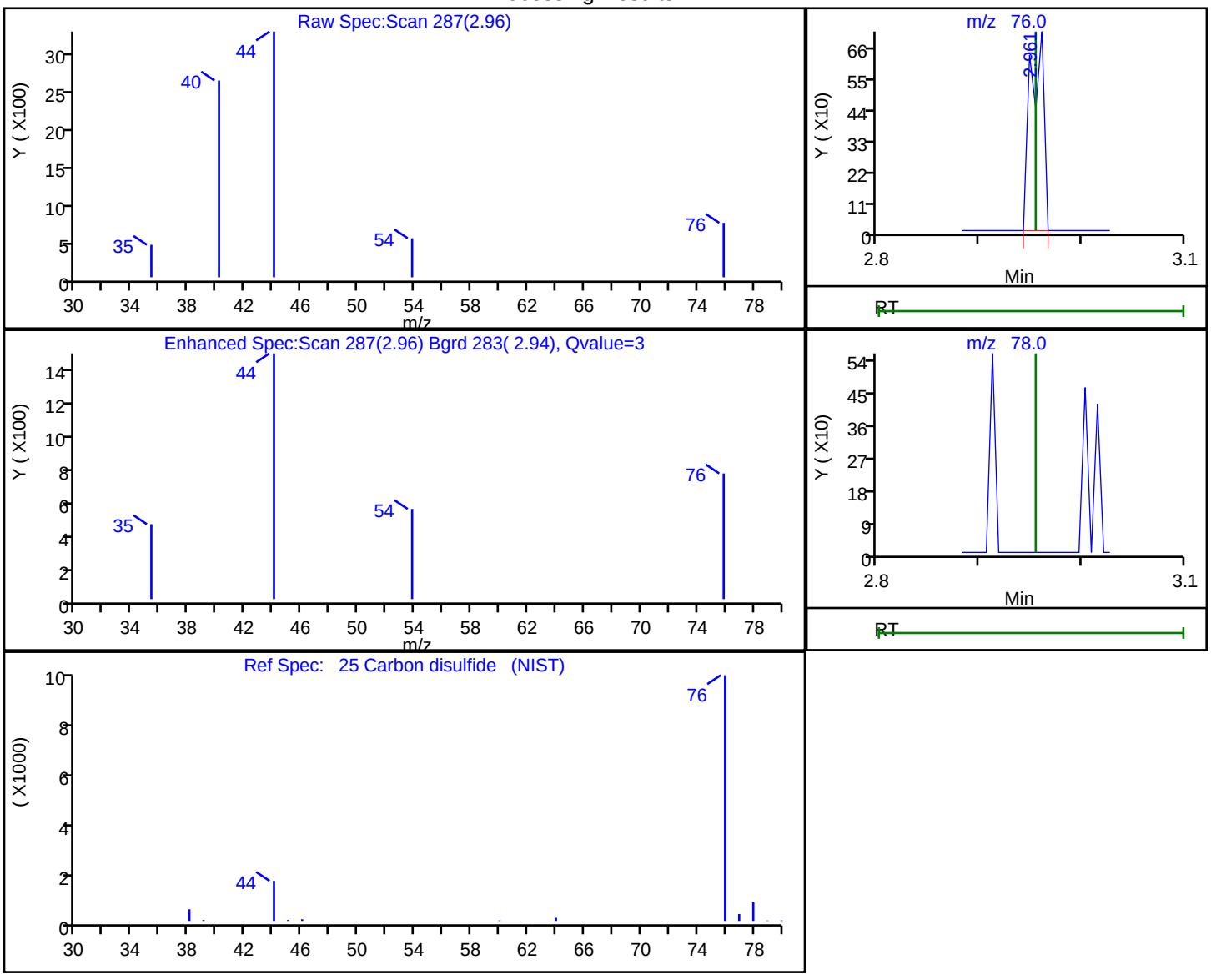
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6429.D
Injection Date: 04-Dec-2018 10:30:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AM 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

25 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.96	76.00	653	0.027242
2.95	78.00	0	

Reviewer: moffata, 04-Dec-2018 11:00:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

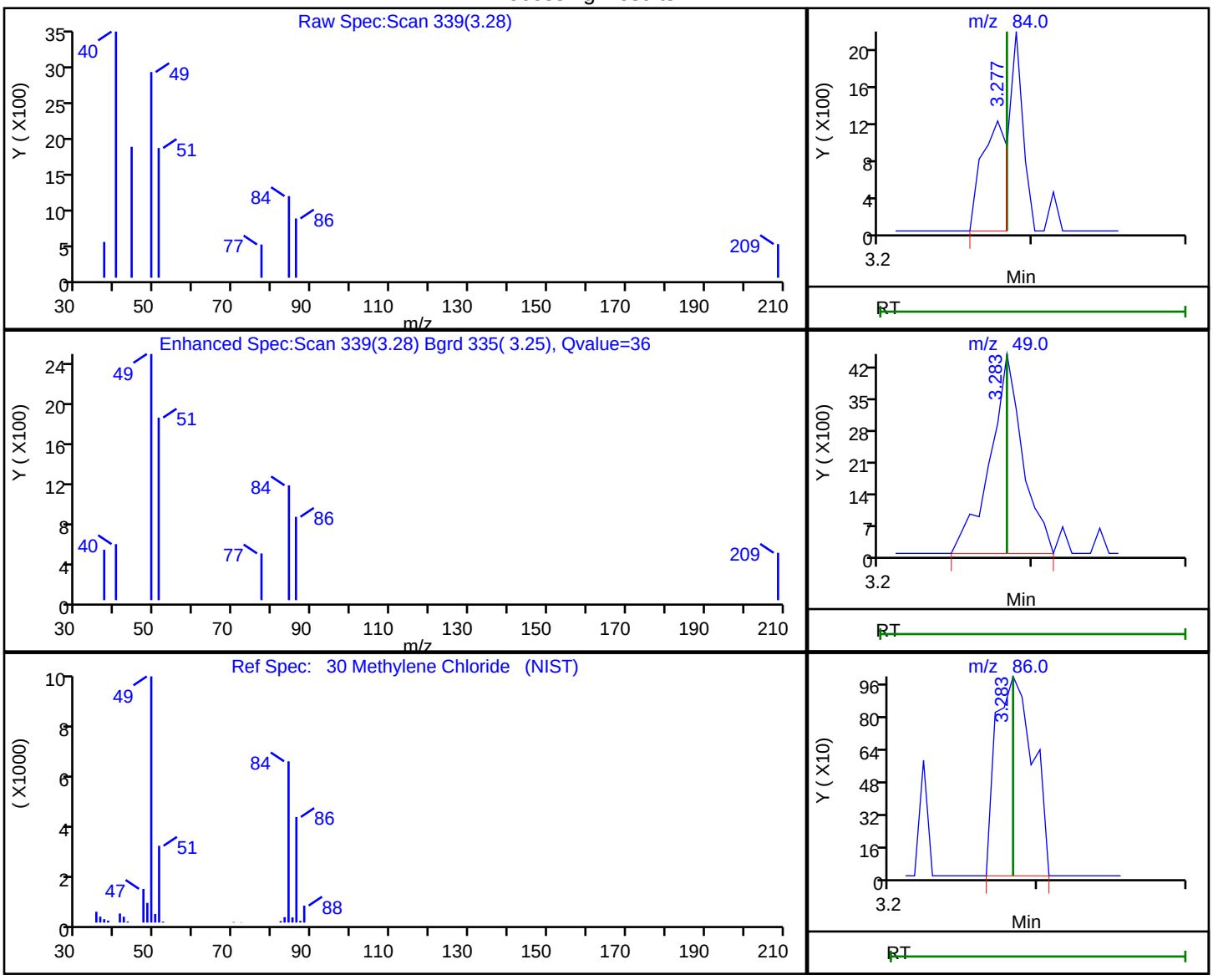
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6429.D
Injection Date: 04-Dec-2018 10:30:30 Instrument ID: HP5973N
Lims ID: MB
Client ID:
Operator ID: AM 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

30 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.28	84.00	1359	-1.179655
3.28	49.00	6617	
3.28	86.00	1731	

Reviewer: moffata, 04-Dec-2018 11:00:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-449099/7

Matrix: Water | Lab File ID: P38972.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 11:03

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-449099/7

Matrix: Water | Lab File ID: P38972.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 11:03

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	91		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	82		73-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38972.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Dec-2018 11:03:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0077001-007
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Dec-2018 13:22:30 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0302

First Level Reviewer: farrellr Date: 05-Dec-2018 12:10:24

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	10.336	10.336	0.000	98	173367	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.284	14.285	-0.001	90	353085	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.241	0.006	98	311204	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.533	9.539	-0.006	91	214871	25.0	21.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.990	-0.001	0	138946	25.0	24.0	
$ 5 Toluene-d8 (Surr)	98	12.319	12.320	-0.001	94	775375	25.0	22.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	87	227221	25.0	20.5	
10 Dichlorodifluoromethane	85		4.253					ND	
15 Chlorodifluoromethane	51		4.295					ND	
11 Chloromethane	50		4.679					ND	U
17 Vinyl chloride	62		4.855					ND	
144 Butadiene	54		4.904					ND	
12 Bromomethane	94		5.476					ND	
13 Chloroethane	64		5.615					ND	
19 Dichlorofluoromethane	67		5.895					ND	
14 Trichlorofluoromethane	101		5.962					ND	
141 Ethanol	45		6.230					ND	
20 Ethyl ether	59		6.321					ND	
26 Propene oxide	58		6.497					ND	
22 Acrolein	56		6.619					ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.631					ND	
25 1,1-Dichloroethene	96		6.723					ND	
24 Acetone	43		6.802					ND	
23 Isopropyl alcohol	45		6.917					ND	
18 Iodomethane	142		7.027					ND	
27 Carbon disulfide	76		7.118					ND	U
30 Methyl acetate	43		7.167					ND	
28 3-Chloro-1-propene	41		7.197					ND	U
29 Acetonitrile	40		7.252					ND	
31 Methylene Chloride	84		7.392					ND	
33 2-Methyl-2-propanol	59		7.410					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		7.599					ND	
35 trans-1,2-Dichloroethene	96		7.696					ND	
34 Acrylonitrile	53		7.726					ND	
36 Hexane	57		7.897					ND	
37 Isopropyl ether	45		8.116					ND	
38 Vinyl acetate	43		8.189					ND	
40 1,1-Dichloroethane	63		8.244					ND	
39 1,1-Dimethoxyethane	75		8.250					ND	
41 2-Chloro-1,3-butadiene	53		8.323					ND	
42 Tert-butyl ethyl ether	59		8.560					ND	
46 Ethyl acetate	43		8.888					ND	
44 2-Butanone (MEK)	43		8.925					ND	
45 2,2-Dichloropropane	77		8.937					ND	
43 cis-1,2-Dichloroethene	96		8.961					ND	
47 Propionitrile	54		9.089					ND	
48 Methacrylonitrile	41		9.241					ND	
50 Chlorobromomethane	128		9.290					ND	
51 Tetrahydrofuran	42		9.302					ND	
49 Chloroform	83		9.320					ND	
52 1,1,1-Trichloroethane	97		9.558					ND	
54 Cyclohexane	56		9.600					ND	
66 2-Methylthiophene	97		9.687					ND	
56 1,1-Dichloropropene	75		9.734					ND	
53 Isobutyl alcohol	43		9.746					ND	
55 Carbon tetrachloride	117		9.752					ND	
140 t-Amyl alcohol	59		9.868					ND	
67 3-Methylthiophene	97		9.894					ND	
146 Isooctane	57		9.923					ND	
58 Tert-amyl methyl ether	73		9.989					ND	
57 Benzene	78		10.026					ND	
60 1,2-Dichloroethane	62		10.081					ND	
59 n-Heptane	43		10.093					ND	
1 1,4-Difluorobenzene	114		10.409					ND	
61 n-Butanol	56		10.549					ND	
145 Ethyl acrylate	55		10.768					ND	
62 Trichloroethene	95		10.787					ND	
64 Methylcyclohexane	83		10.981					ND	
65 Methyl methacrylate	41		11.066					ND	
63 1,2-Dichloropropane	63		11.121					ND	
68 1,4-Dioxane	88		11.243					ND	
69 Dibromomethane	93		11.328					ND	
70 Dichlorobromomethane	83		11.462					ND	
71 2-Chloroethyl vinyl ether	63		11.711					ND	
72 2-Nitropropane	43		11.760					ND	
74 Epichlorohydrin	57		11.912					ND	
73 cis-1,3-Dichloropropene	75		11.991					ND	
75 4-Methyl-2-pentanone (MIBK	43		12.094					ND	
76 Toluene	92		12.411					ND	
77 Ethyl methacrylate	69		12.636					ND	
78 trans-1,3-Dichloropropene	75		12.703					ND	
79 1,1,2-Trichloroethane	83		12.995					ND	
80 Tetrachloroethene	166		13.141					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
83 2-Hexanone	43		13.183					ND	
82 1,3-Dichloropropane	76		13.226					ND	
149 n-Butyl acetate	43		13.238					ND	
81 Chlorodibromomethane	129		13.567					ND	
85 Ethylene Dibromide	107		13.767					ND	
84 3-Chlorobenzotrifluoride	180		14.108					ND	
139 1-Chlorohexane	55		14.120					ND	
86 4-Chlorobenzotrifluoride	180		14.181					ND	
87 Chlorobenzene	112		14.327					ND	
89 Ethylbenzene	91		14.370					ND	
88 1,1,1,2-Tetrachloroethane	131		14.406					ND	
90 m-Xylene & p-Xylene	106		14.504					ND	
93 o-Xylene	106		15.057					ND	
94 Styrene	104		15.082					ND	
91 2-Chlorobenzotrifluoride	180		15.361					ND	
92 Bromoform	173		15.465					ND	
95 Isopropylbenzene	105		15.483					ND	
96 Cyclohexanone	55		15.787					ND	
97 1,1,2,2-Tetrachloroethane	83		15.951					ND	
98 trans-1,4-Dichloro-2-buten	53		16.006					ND	
99 N-Propylbenzene	91		16.012					ND	
100 Bromobenzene	156		16.031					ND	
101 1,2,3-Trichloropropane	110		16.049					ND	
102 1,3,5-Trimethylbenzene	105		16.201					ND	
103 2-Chlorotoluene	126		16.219					ND	
104 3-Chlorotoluene	126		16.280					ND	
105 4-Chlorotoluene	126		16.347					ND	
106 tert-Butylbenzene	134		16.639					ND	
107 1,2,4-Trimethylbenzene	105		16.700					ND	
108 Pentachloroethane	167		16.779					ND	
109 sec-Butylbenzene	105		16.907					ND	
112 4-Isopropyltoluene	119		17.053					ND	
110 1,3-Dichlorobenzene	146		17.174					ND	
113 1,2,3-Trimethylbenzene	105		17.259					ND	U
114 Dicyclopentadiene	66		17.278					ND	
111 1,4-Dichlorobenzene	146		17.278					ND	
143 Benzyl chloride	126		17.442					ND	
115 n-Butylbenzene	91		17.570					ND	Ua
116 1,2-Dichlorobenzene	146		17.770					ND	
117 1,2-Dibromo-3-Chloropropan	75		18.805					ND	
118 1,3,5-Trichlorobenzene	180		18.987					ND	
119 1,2,4-Trichlorobenzene	180		19.906					ND	Ua
120 Hexachlorobutadiene	225	20.039	20.027	0.012	1	2949		0.7412	
121 Naphthalene	128		20.344					ND	
122 1,2,3-Trichlorobenzene	180		20.721					ND	
142 2-Methylnaphthalene	142		22.278					ND	
138 Ethylene oxide TIC	1		0.000					ND	
136 Propene oxide TIC	1		0.000					ND	
137 1-Bromopropane TIC	1		0.000					ND	
135 Pentachloroethane TIC	1		0.000					ND	
134 Halothane	1		0.000					ND	
S 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	
S 123 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 1,3-Dichloropropene, Total	1		30.000					ND	
S 151 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

P 8260 IS_00341	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added:	1.25	Units: uL	Run Reagent

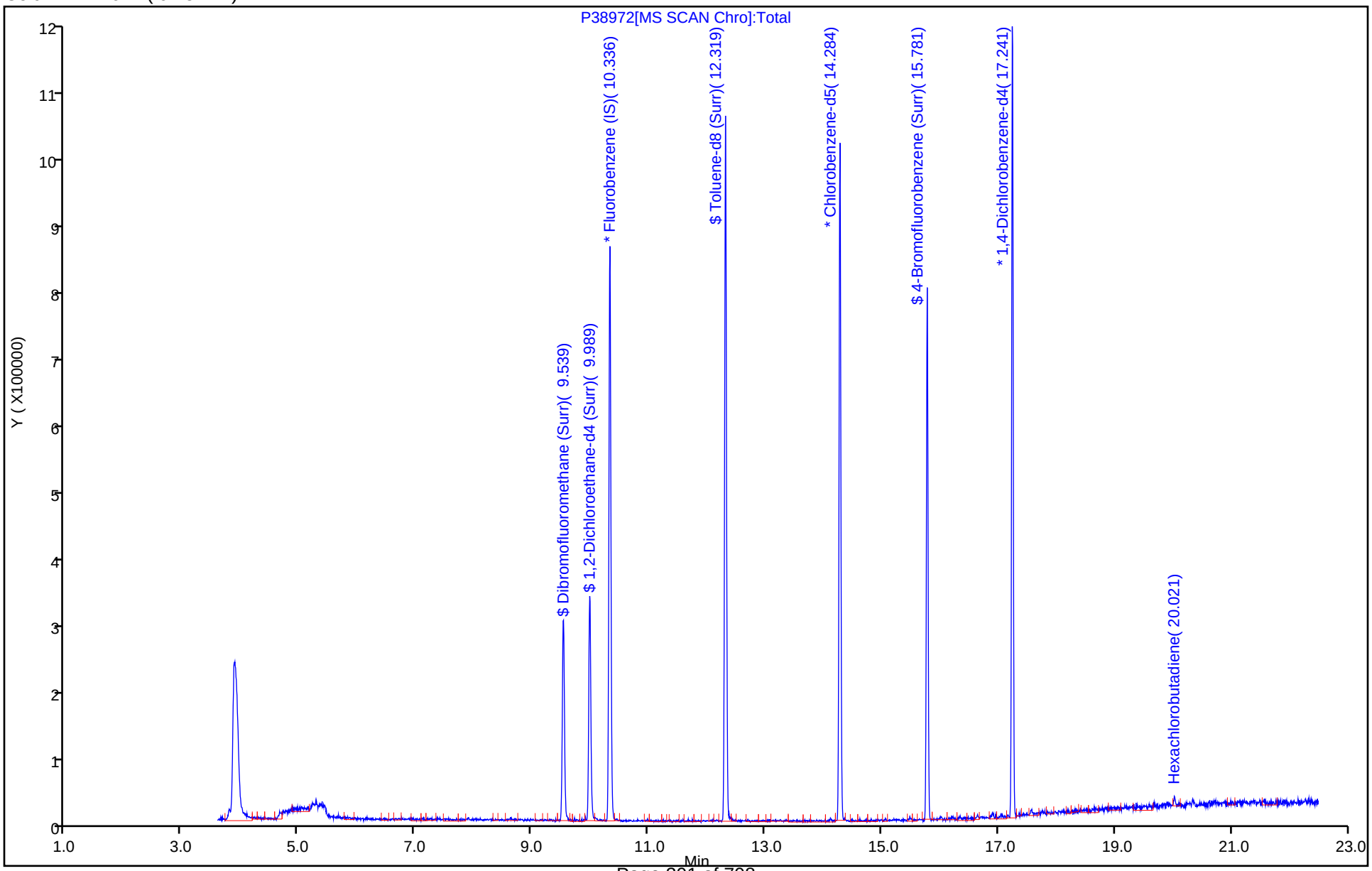
Report Date: 05-Dec-2018 13:22:31 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38972.D

Injection Date:	05-Dec-2018 11:03:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



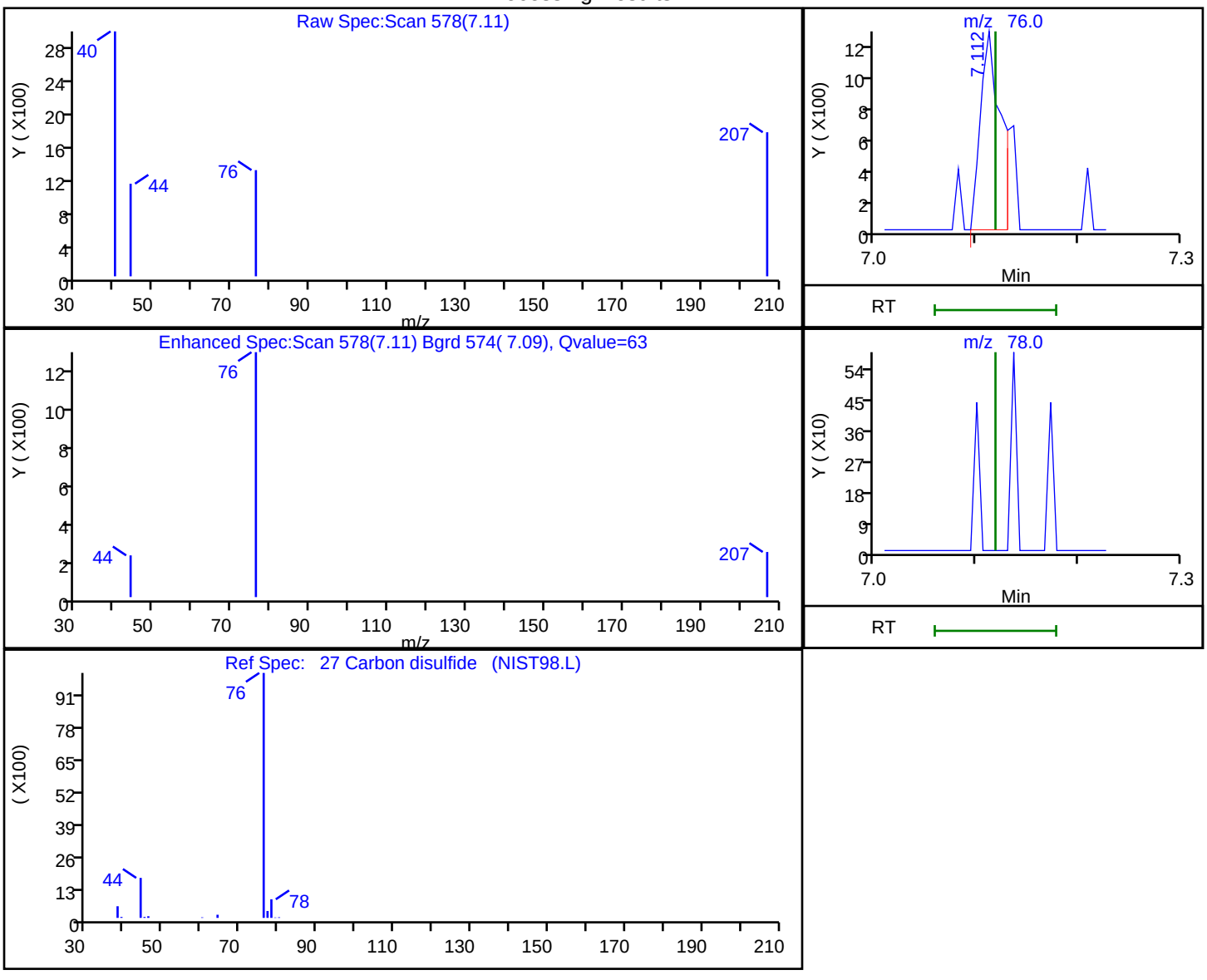
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38972.D
Injection Date: 05-Dec-2018 11:03:30 Instrument ID: HP5973P
Lims ID: MB
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
7.11	76.00	1805	0.061024
7.12	78.00	0	

Reviewer: farrellr, 05-Dec-2018 12:09:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

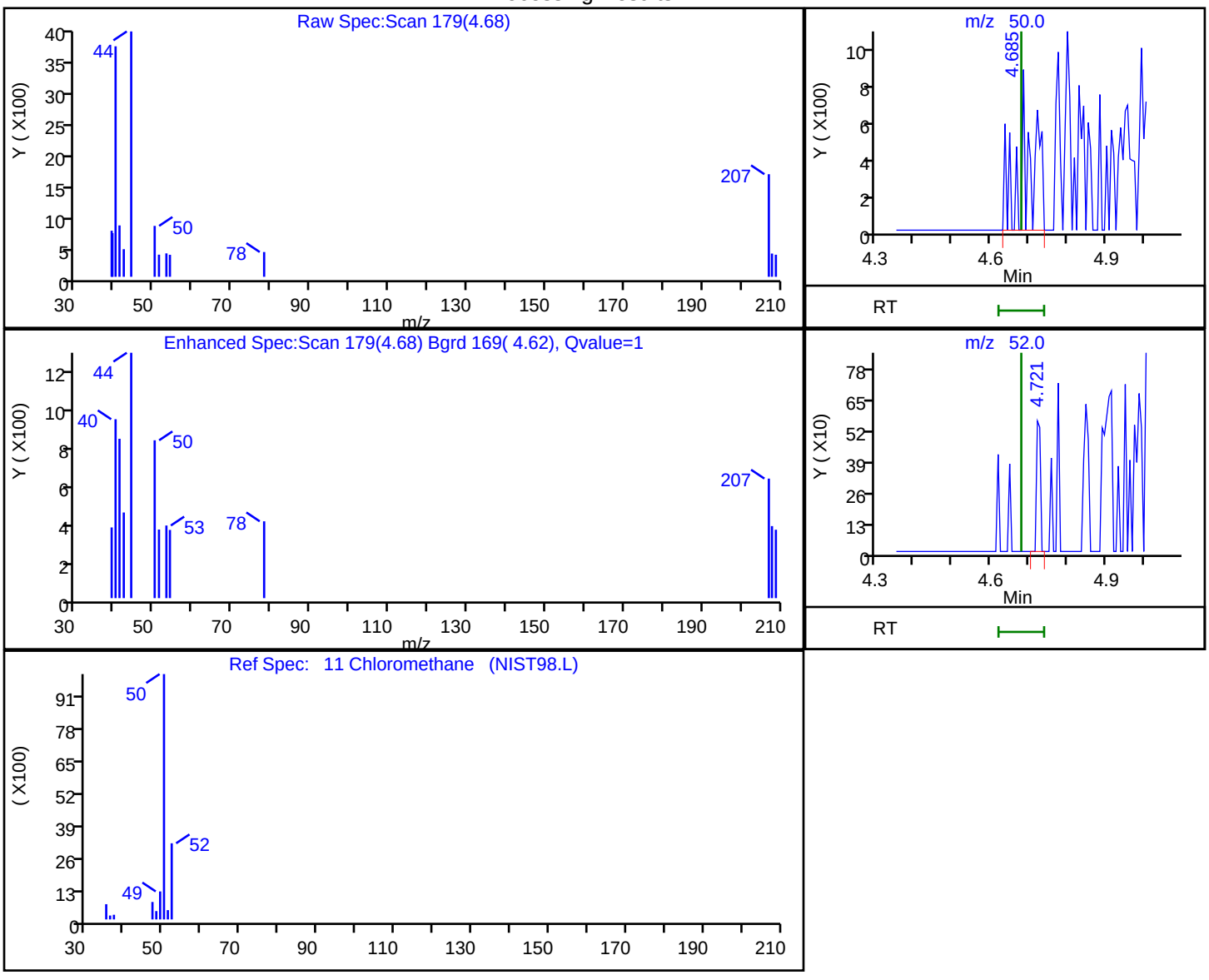
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38972.D
Injection Date: 05-Dec-2018 11:03:30 Instrument ID: HP5973P
Lims ID: MB
Client ID:
Operator ID: RF ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

11 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
4.68	50.00	1862	0.093383
4.72	52.00	398	

Reviewer: farrellr, 05-Dec-2018 12:09:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-448834/5

Matrix: Water | Lab File ID: N6427.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/04/2018 09:34

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.: 448834 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.2		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	24.4		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.7		1.0	0.31
79-00-5	1,1,2-Trichloroethane	25.2		1.0	0.23
75-34-3	1,1-Dichloroethane	25.2		1.0	0.38
75-35-4	1,1-Dichloroethene	25.4		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.0		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	25.4		1.0	0.39
95-50-1	1,2-Dichlorobenzene	24.9		1.0	0.79
107-06-2	1,2-Dichloroethane	25.2		1.0	0.21
78-87-5	1,2-Dichloropropane	25.3		1.0	0.72
541-73-1	1,3-Dichlorobenzene	24.7		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.7		1.0	0.84
78-93-3	2-Butanone (MEK)	140		10	1.3
591-78-6	2-Hexanone	136		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	132		5.0	2.1
67-64-1	Acetone	171		10	3.0
71-43-2	Benzene	24.4		1.0	0.41
75-27-4	Bromodichloromethane	26.0		1.0	0.39
75-25-2	Bromoform	27.1		1.0	0.26
74-83-9	Bromomethane	22.5		1.0	0.69
75-15-0	Carbon disulfide	23.1		1.0	0.19
56-23-5	Carbon tetrachloride	25.2		1.0	0.27
108-90-7	Chlorobenzene	24.2		1.0	0.75
75-00-3	Chloroethane	26.2		1.0	0.32
67-66-3	Chloroform	25.0		1.0	0.34
74-87-3	Chloromethane	22.8		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.0		1.0	0.36
110-82-7	Cyclohexane	25.9		1.0	0.18
106-93-4	1,2-Dibromoethane	25.7		1.0	0.73
124-48-1	Dibromochloromethane	27.6		1.0	0.32
75-71-8	Dichlorodifluoromethane	27.6		1.0	0.68
100-41-4	Ethylbenzene	25.0		1.0	0.74
98-82-8	Isopropylbenzene	24.7		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-448834/5

Matrix: Water | Lab File ID: N6427.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/04/2018 09:34

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.: 448834 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	47.2		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.5		1.0	0.16
108-87-2	Methylcyclohexane	26.0		1.0	0.16
75-09-2	Methylene Chloride	22.5		1.0	0.44
100-42-5	Styrene	25.5		1.0	0.73
127-18-4	Tetrachloroethene	24.9		1.0	0.36
108-88-3	Toluene	24.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.8		1.0	0.37
79-01-6	Trichloroethene	24.6		1.0	0.46
75-69-4	Trichlorofluoromethane	27.9		1.0	0.88
75-01-4	Vinyl chloride	25.9		1.0	0.90
1330-20-7	Xylenes, Total	50.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6427.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Dec-2018 09:34:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0076958-005
Operator ID: AM Instrument ID: HP5973N

Method: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 04-Dec-2018 11:00:47 Calib Date: 27-Nov-2018 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973N\20181127-76774.b\N6215.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0330

First Level Reviewer: moffata Date: 04-Dec-2018 11:02:37

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	5.540	5.540	0.000	98	173034	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.545	8.545	0.000	88	689161	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	95	369744	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.962	4.968	0.000	93	229461	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.272	5.272	0.000	0	317781	25.0	25.5	
$ 6 Toluene-d8 (Surr)	98	7.055	7.055	0.000	95	870726	25.0	24.6	
$ 7 4-Bromofluorobenzene (Surr	174	9.798	9.799	-0.001	95	285175	25.0	25.3	
11 Dichlorodifluoromethane	85	1.330	1.330	0.000	97	230256	25.0	27.6	
13 Chloromethane	50	1.519	1.513	0.006	99	352251	25.0	22.8	
14 Vinyl chloride	62	1.604	1.610	-0.006	97	279905	25.0	25.9	
144 Butadiene	54	1.640	1.636	0.006	96	299173	25.0	30.1	
15 Bromomethane	94	1.944	1.932	0.012	92	157794	25.0	22.5	
16 Chloroethane	64	2.030	2.030	0.000	96	169787	25.0	26.2	
18 Trichlorofluoromethane	101	2.230	2.231	-0.001	97	362923	25.0	27.9	
17 Dichlorofluoromethane	67	2.261	2.255	0.006	97	380634	25.0	25.4	
19 Ethyl ether	59	2.535	2.535	0.000	97	274102	25.0	25.4	
20 Acrolein	56	2.723	2.729	-0.006	99	278306	125.0	111.4	
22 1,1-Dichloroethene	96	2.754	2.754	0.000	92	201851	25.0	25.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	92	202140	25.0	24.7	
23 Acetone	43	2.887	2.888	-0.001	97	660833	125.0	171.2	
24 Iodomethane	142	2.918	2.918	0.000	98	392216	25.0	23.9	
25 Carbon disulfide	76	2.954	2.955	0.000	98	601044	25.0	23.1	
27 3-Chloro-1-propene	41	3.137	3.131	0.006	84	557426	25.0	24.3	
28 Methyl acetate	43	3.179	3.186	-0.007	100	601913	50.0	47.2	
30 Methylene Chloride	84	3.283	3.289	0.000	91	229378	25.0	22.5	
31 2-Methyl-2-propanol	59	3.459	3.459	0.000	99	218827	250.0	306.9	
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	96	759838	25.0	24.5	
33 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	92	236418	25.0	24.6	
34 Acrylonitrile	53	3.575	3.575	0.000	97	1433684	250.0	253.2	
35 Hexane	57	3.703	3.703	0.000	96	430113	25.0	24.8	
36 1,1-Dichloroethane	63	3.934	3.934	0.000	97	476732	25.0	25.2	

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	3.982	3.989	-0.007	97	1492223	50.0	50.1	
42 2,2-Dichloropropane	77	4.451	4.457	-0.006	85	319946	25.0	23.7	
43 cis-1,2-Dichloroethene	96	4.487	4.494	-0.007	85	269262	25.0	24.0	
44 2-Butanone (MEK)	43	4.524	4.530	-0.006	97	982997	125.0	139.8	
47 Chlorobromomethane	128	4.725	4.731	-0.006	90	138303	25.0	22.5	
49 Tetrahydrofuran	42	4.743	4.749	-0.006	92	248228	50.0	48.5	
50 Chloroform	83	4.804	4.804	0.000	95	417863	25.0	25.0	
51 1,1,1-Trichloroethane	97	4.913	4.913	0.000	95	382066	25.0	25.2	
52 Cyclohexane	56	4.919	4.920	-0.001	97	516927	25.0	25.9	
53 Carbon tetrachloride	117	5.053	5.053	0.000	94	347190	25.0	25.2	
54 1,1-Dichloropropene	75	5.065	5.066	-0.001	83	313507	25.0	25.7	
55 Benzene	78	5.272	5.272	0.000	93	949130	25.0	24.4	
56 Isobutyl alcohol	43	5.297	5.297	0.000	91	296227	625.0	630.2	
57 1,2-Dichloroethane	62	5.345	5.345	0.000	95	449573	25.0	25.2	
59 n-Heptane	43	5.443	5.443	0.000	96	501330	25.0	26.1	
60 Trichloroethene	95	5.881	5.887	-0.006	91	244098	25.0	24.6	
62 Methylcyclohexane	83	5.996	5.996	0.000	95	379004	25.0	26.0	
63 1,2-Dichloropropane	63	6.124	6.124	0.000	83	266312	25.0	25.3	
64 Dibromomethane	93	6.264	6.264	0.000	94	161435	25.0	24.0	
66 1,4-Dioxane	88	6.276	6.276	0.000	34	42384	500.0	581.3	M
67 Dichlorobromomethane	83	6.422	6.416	0.006	95	322391	25.0	26.0	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	89	175712	25.0	23.0	
71 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	83	358142	25.0	25.0	
72 4-Methyl-2-pentanone (MIBK	58	6.976	6.982	-0.006	99	696257	125.0	131.7	
73 Toluene	92	7.122	7.122	0.000	98	613700	25.0	24.5	
75 trans-1,3-Dichloropropene	75	7.401	7.408	-0.007	96	346584	25.0	25.8	
77 Ethyl methacrylate	69	7.444	7.444	0.000	90	311292	25.0	25.9	
78 1,1,2-Trichloroethane	83	7.596	7.596	0.000	94	173288	25.0	25.2	
79 Tetrachloroethene	166	7.651	7.651	0.000	96	277704	25.0	24.9	
80 1,3-Dichloropropane	76	7.754	7.754	0.000	89	355573	25.0	25.1	
82 2-Hexanone	43	7.821	7.821	0.000	98	1552813	125.0	135.9	
83 Chlorodibromomethane	129	7.998	7.998	0.000	90	260193	25.0	27.6	
84 Ethylene Dibromide	107	8.101	8.101	0.000	98	237496	25.0	25.7	
85 Chlorobenzene	112	8.576	8.576	0.000	93	685342	25.0	24.2	
88 Ethylbenzene	91	8.661	8.667	-0.006	98	1136979	25.0	25.0	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	92	267422	25.0	25.6	
90 m-Xylene & p-Xylene	106	8.788	8.789	-0.001	98	464494	25.0	25.8	
91 o-Xylene	106	9.214	9.215	0.000	96	461416	25.0	24.8	
92 Styrene	104	9.245	9.251	-0.006	95	756838	25.0	25.5	
93 Bromoform	173	9.500	9.500	0.000	96	155971	25.0	27.1	
95 Isopropylbenzene	105	9.598	9.603	0.000	97	1186276	25.0	24.7	
97 Bromobenzene	156	9.944	9.950	-0.001	87	313247	25.0	22.9	
98 1,1,2,2-Tetrachloroethane	83	9.999	10.011	-0.006	95	279741	25.0	24.4	
100 N-Propylbenzene	91	10.017	10.023	-0.001	99	1312790	25.0	24.7	
99 1,2,3-Trichloropropane	110	10.030	10.041	-0.006	93	100443	25.0	23.9	
101 trans-1,4-Dichloro-2-buten	53	10.048	10.054	0.000	79	105459	25.0	20.2	
102 2-Chlorotoluene	126	10.127	10.133	0.000	96	285895	25.0	24.4	
104 1,3,5-Trimethylbenzene	105	10.194	10.200	0.000	96	1001460	25.0	25.0	
105 4-Chlorotoluene	91	10.236	10.242	-0.001	97	831579	25.0	24.9	
106 tert-Butylbenzene	134	10.510	10.522	-0.006	94	234199	25.0	25.5	
108 1,2,4-Trimethylbenzene	105	10.565	10.571	0.000	98	1041888	25.0	25.1	
109 sec-Butylbenzene	105	10.723	10.729	0.000	95	1242670	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 4-Isopropyltoluene	119	10.863	10.863	0.006	97	1130279	25.0	25.9	
110 1,3-Dichlorobenzene	146	10.863	10.869	0.000	71	603149	25.0	24.7	
113 1,4-Dichlorobenzene	146	10.948	10.954	0.000	94	607351	25.0	24.7	
115 n-Butylbenzene	91	11.246	11.253	0.000	98	911824	25.0	25.7	
116 1,2-Dichlorobenzene	146	11.301	11.307	0.000	97	578948	25.0	24.9	
117 1,2-Dibromo-3-Chloropropan	75	12.031	12.038	0.000	90	48637	25.0	25.4	
119 1,2,4-Trichlorobenzene	180	12.700	12.707	0.000	94	413045	25.0	24.0	
120 Hexachlorobutadiene	225	12.810	12.817	0.000	98	172744	25.0	24.7	
121 Naphthalene	128	12.919	12.927	0.000	97	1065531	25.0	24.8	
122 1,2,3-Trichlorobenzene	180	13.120	13.128	0.000	96	380071	25.0	23.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00140	Amount Added:	12.50	Units: uL	
GAS CORP mix_00316	Amount Added:	12.50	Units: uL	
N_8260_Surr_00355	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00134	Amount Added:	1.00	Units: uL	Run Reagent

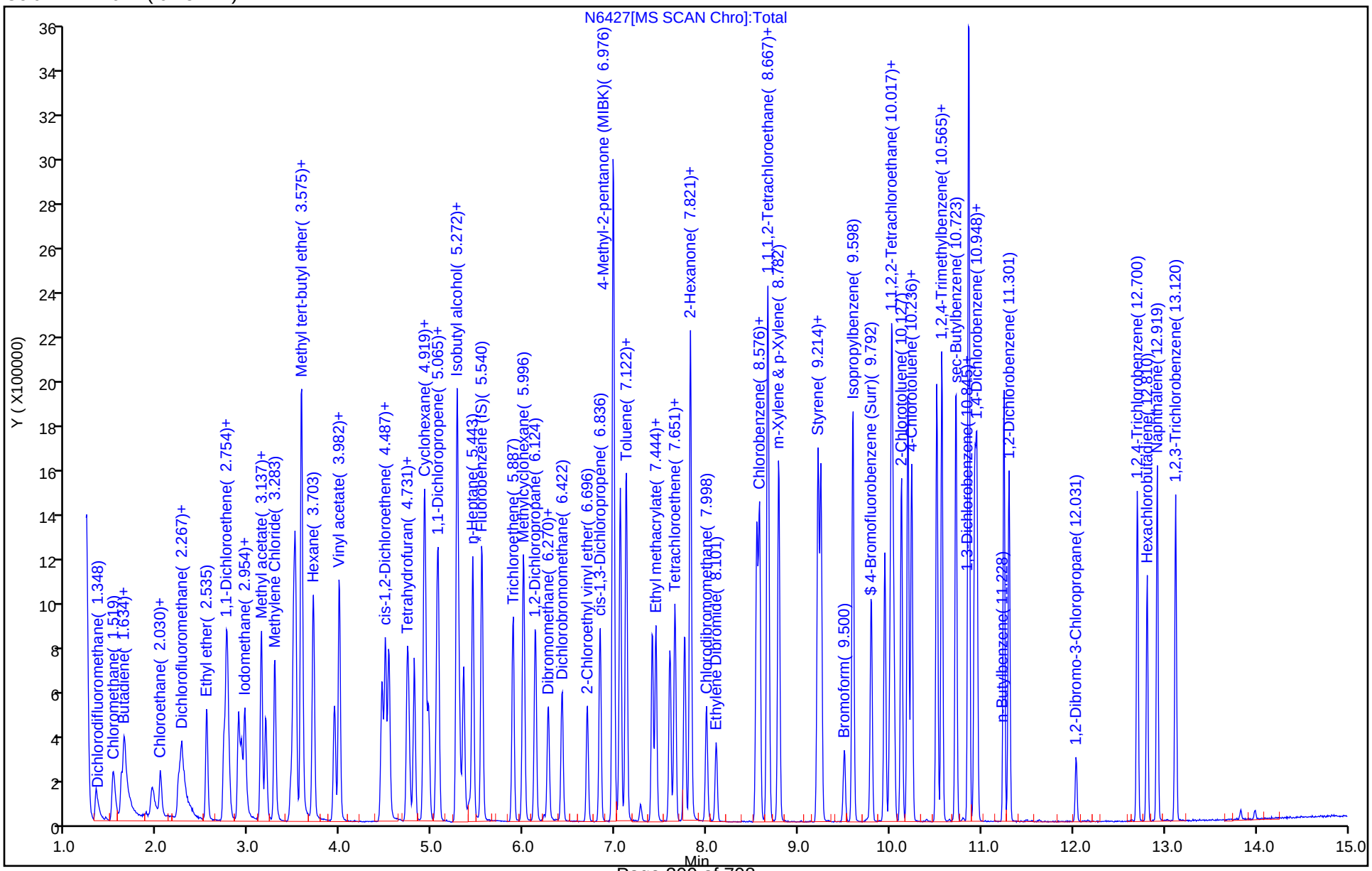
Report Date: 04-Dec-2018 11:02:38 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973N\20181204-76958.b\N6427.D

Injection Date:	04-Dec-2018 09:34:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
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.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-449099/4

Matrix: Water | Lab File ID: P38970.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 10:08

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	28.9		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.8		1.0	0.31
79-00-5	1,1,2-Trichloroethane	24.8		1.0	0.23
75-34-3	1,1-Dichloroethane	26.1		1.0	0.38
75-35-4	1,1-Dichloroethene	22.5		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	22.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	26.5		1.0	0.39
95-50-1	1,2-Dichlorobenzene	24.7		1.0	0.79
107-06-2	1,2-Dichloroethane	25.6		1.0	0.21
78-87-5	1,2-Dichloropropane	25.4		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.6		1.0	0.84
78-93-3	2-Butanone (MEK)	129		10	1.3
591-78-6	2-Hexanone	131		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	134		5.0	2.1
67-64-1	Acetone	126		10	3.0
71-43-2	Benzene	26.0		1.0	0.41
75-27-4	Bromodichloromethane	25.7		1.0	0.39
75-25-2	Bromoform	21.5		1.0	0.26
74-83-9	Bromomethane	21.5		1.0	0.69
75-15-0	Carbon disulfide	26.9		1.0	0.19
56-23-5	Carbon tetrachloride	24.8		1.0	0.27
108-90-7	Chlorobenzene	23.1		1.0	0.75
75-00-3	Chloroethane	26.4		1.0	0.32
67-66-3	Chloroform	25.5		1.0	0.34
74-87-3	Chloromethane	24.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.5		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.4		1.0	0.36
110-82-7	Cyclohexane	28.3		1.0	0.18
106-93-4	1,2-Dibromoethane	23.9		1.0	0.73
124-48-1	Dibromochloromethane	22.6		1.0	0.32
75-71-8	Dichlorodifluoromethane	21.4		1.0	0.68
100-41-4	Ethylbenzene	25.1		1.0	0.74
98-82-8	Isopropylbenzene	27.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-449099/4

Matrix: Water | Lab File ID: P38970.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 10:08

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	49.5		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.6		1.0	0.16
108-87-2	Methylcyclohexane	25.1		1.0	0.16
75-09-2	Methylene Chloride	24.5		1.0	0.44
100-42-5	Styrene	23.7		1.0	0.73
127-18-4	Tetrachloroethene	21.9		1.0	0.36
108-88-3	Toluene	24.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.1		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.1		1.0	0.37
79-01-6	Trichloroethene	23.7		1.0	0.46
75-69-4	Trichlorofluoromethane	21.8		1.0	0.88
75-01-4	Vinyl chloride	24.4		1.0	0.90
1330-20-7	Xylenes, Total	48.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	81		73-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38970.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 05-Dec-2018 10:08:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0077001-004
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 05-Dec-2018 12:01:35 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0302

First Level Reviewer: farrellr Date: 05-Dec-2018 12:01:35

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	10.336	10.336	0.000	98	187567	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.285	14.285	0.000	88	382834	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.241	17.241	0.000	96	355743	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	91	233264	25.0	21.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.990	9.990	0.000	0	152471	25.0	24.4	
$ 5 Toluene-d8 (Surr)	98	12.320	12.320	0.000	95	822642	25.0	22.3	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	86	244528	25.0	20.3	
10 Dichlorodifluoromethane	85	4.253	4.253	0.000	98	290920	25.0	21.4	
11 Chloromethane	50	4.679	4.679	0.000	99	528207	25.0	24.5	
17 Vinyl chloride	62	4.855	4.855	0.000	98	445972	25.0	24.4	
144 Butadiene	54	4.904	4.904	0.000	97	455020	25.0	25.9	
12 Bromomethane	94	5.476	5.476	0.000	92	275481	25.0	21.5	
13 Chloroethane	64	5.615	5.615	0.000	97	258142	25.0	26.4	
19 Dichlorofluoromethane	67	5.895	5.895	0.000	97	572866	25.0	23.1	
14 Trichlorofluoromethane	101	5.962	5.962	0.000	98	441301	25.0	21.8	
20 Ethyl ether	59	6.321	6.321	0.000	95	269385	25.0	27.0	
22 Acrolein	56	6.619	6.619	0.000	99	262692	125.0	108.8	
16 1,1,2-Trichloro-1,2,2-trif	101	6.631	6.631	0.000	95	260534	25.0	25.8	M
25 1,1-Dichloroethene	96	6.723	6.723	0.000	94	256374	25.0	22.5	
24 Acetone	43	6.802	6.802	0.000	99	800283	125.0	126.4	
18 Iodomethane	142	7.027	7.027	0.000	99	435671	25.0	20.7	
27 Carbon disulfide	76	7.118	7.118	0.000	99	861411	25.0	26.9	
30 Methyl acetate	43	7.167	7.167	0.000	99	631717	50.0	49.5	
28 3-Chloro-1-propene	41	7.197	7.197	0.000	85	502905	25.0	24.7	
31 Methylene Chloride	84	7.392	7.392	0.000	97	327184	25.0	24.5	
33 2-Methyl-2-propanol	59	7.410	7.410	0.000	97	480077	250.0	236.6	
32 Methyl tert-butyl ether	73	7.599	7.599	0.000	99	807568	25.0	24.6	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	94	286547	25.0	23.1	
34 Acrylonitrile	53	7.726	7.726	0.000	98	1470460	250.0	267.0	
36 Hexane	57	7.897	7.897	0.000	95	359226	25.0	26.7	
38 Vinyl acetate	43	8.189	8.189	0.000	98	1520225	50.0	54.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
40 1,1-Dichloroethane	63	8.244	8.244	0.000	97	564063	25.0	26.1	
44 2-Butanone (MEK)	43	8.925	8.925	0.000	99	1104506	125.0	129.1	
45 2,2-Dichloropropane	77	8.937	8.937	0.000	91	353123	25.0	24.8	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	85	326467	25.0	23.5	
50 Chlorobromomethane	128	9.290	9.290	0.000	93	153377	25.0	21.4	
51 Tetrahydrofuran	42	9.302	9.302	0.000	89	264714	50.0	50.6	
49 Chloroform	83	9.320	9.320	0.000	95	532179	25.0	25.5	
52 1,1,1-Trichloroethane	97	9.558	9.558	0.000	97	434696	25.0	25.3	
54 Cyclohexane	56	9.600	9.600	0.000	95	465741	25.0	28.3	
56 1,1-Dichloropropene	75	9.734	9.734	0.000	97	411394	25.0	27.1	
53 Isobutyl alcohol	43	9.746	9.746	0.000	93	593901	625.0	608.4	
55 Carbon tetrachloride	117	9.752	9.752	0.000	92	387634	25.0	24.8	
57 Benzene	78	10.026	10.026	0.000	99	1145981	25.0	26.0	
60 1,2-Dichloroethane	62	10.081	10.081	0.000	97	462377	25.0	25.6	
59 n-Heptane	43	10.093	10.093	0.000	95	279555	25.0	26.1	
62 Trichloroethene	95	10.787	10.787	0.000	95	294087	25.0	23.7	
64 Methylcyclohexane	83	10.981	10.981	0.000	96	370420	25.0	25.1	
63 1,2-Dichloropropane	63	11.121	11.121	0.000	91	315698	25.0	25.4	
68 1,4-Dioxane	88	11.243	11.243	0.000	98	61443	500.0	488.6	
69 Dibromomethane	93	11.328	11.328	0.000	91	206295	25.0	22.9	
70 Dichlorobromomethane	83	11.462	11.462	0.000	97	414513	25.0	25.7	
71 2-Chloroethyl vinyl ether	63	11.711	11.711	0.000	93	82263	25.0	17.8	
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	91	471062	25.0	25.4	
75 4-Methyl-2-pentanone (MIBK	43	12.094	12.094	0.000	98	2069029	125.0	134.0	
76 Toluene	92	12.411	12.411	0.000	98	705152	25.0	24.5	
77 Ethyl methacrylate	69	12.636	12.636	0.000	91	394504	25.0	23.9	
78 trans-1,3-Dichloropropene	75	12.703	12.703	0.000	97	448638	25.0	26.1	
79 1,1,2-Trichloroethane	83	12.995	12.995	0.000	93	235615	25.0	24.8	
80 Tetrachloroethene	166	13.141	13.141	0.000	89	261561	25.0	21.9	
83 2-Hexanone	43	13.183	13.183	0.000	98	1599065	125.0	131.4	
82 1,3-Dichloropropane	76	13.226	13.226	0.000	90	484844	25.0	26.1	
81 Chlorodibromomethane	129	13.567	13.567	0.000	89	291753	25.0	22.6	
85 Ethylene Dibromide	107	13.767	13.767	0.000	98	290284	25.0	23.9	
87 Chlorobenzene	112	14.327	14.327	0.000	96	766867	25.0	23.1	
89 Ethylbenzene	91	14.370	14.370	0.000	98	1272989	25.0	25.1	
88 1,1,1,2-Tetrachloroethane	131	14.406	14.406	0.000	94	275645	25.0	22.3	
90 m-Xylene & p-Xylene	106	14.504	14.504	0.000	0	498599	25.0	24.6	
93 o-Xylene	106	15.057	15.057	0.000	97	486545	25.0	24.0	
94 Styrene	104	15.082	15.082	0.000	95	812312	25.0	23.7	
92 Bromoform	173	15.465	15.465	0.000	92	187645	25.0	21.5	
95 Isopropylbenzene	105	15.483	15.483	0.000	97	1170491	25.0	27.9	
97 1,1,2,2-Tetrachloroethane	83	15.951	15.951	0.000	96	403656	25.0	28.9	
98 trans-1,4-Dichloro-2-buten	53	16.006	16.006	0.000	69	76217	25.0	19.4	
99 N-Propylbenzene	91	16.012	16.012	0.000	98	1404177	25.0	28.8	
100 Bromobenzene	156	16.031	16.031	0.000	98	329032	25.0	24.5	
101 1,2,3-Trichloropropane	110	16.049	16.049	0.000	85	113790	25.0	27.1	
102 1,3,5-Trimethylbenzene	105	16.201	16.201	0.000	94	973837	25.0	28.0	
103 2-Chlorotoluene	126	16.219	16.219	0.000	95	304844	25.0	25.5	
105 4-Chlorotoluene	126	16.347	16.347	0.000	99	310990	25.0	25.6	
106 tert-Butylbenzene	134	16.639	16.639	0.000	91	189674	25.0	25.1	
107 1,2,4-Trimethylbenzene	105	16.700	16.700	0.000	98	1020504	25.0	27.9	
109 sec-Butylbenzene	105	16.907	16.907	0.000	96	1102826	25.0	27.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
112 4-Isopropyltoluene	119	17.053	17.053	0.000	97	943683	25.0	28.1	
110 1,3-Dichlorobenzene	146	17.174	17.174	0.000	97	573053	25.0	25.0	
111 1,4-Dichlorobenzene	146	17.278	17.278	0.000	92	584146	25.0	24.6	
115 n-Butylbenzene	91	17.570	17.570	0.000	98	835596	25.0	28.3	
116 1,2-Dichlorobenzene	146	17.770	17.770	0.000	94	552955	25.0	24.7	
117 1,2-Dibromo-3-Chloropropan	75	18.805	18.805	0.000	80	78657	25.0	26.5	
119 1,2,4-Trichlorobenzene	180	19.906	19.906	0.000	94	336796	25.0	22.6	
120 Hexachlorobutadiene	225	20.027	20.027	0.000	95	111264	25.0	24.5	
121 Naphthalene	128	20.344	20.344	0.000	98	1060206	25.0	24.3	
122 1,2,3-Trichlorobenzene	180	20.721	20.721	0.000	94	318178	25.0	22.1	
S 123 1,2-Dichloroethene, Total	1				0			46.5	
S 124 1,3-Dichloropropene, Total	1				0			51.6	
S 125 Total BTEX	1				0			124.0	
S 126 Xylenes, Total	1				0			48.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00141	Amount Added:	12.50	Units: uL	
GAS CORP mix_00316	Amount Added:	12.50	Units: uL	
P 8260 IS_00341	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added:	1.25	Units: uL	Run Reagent

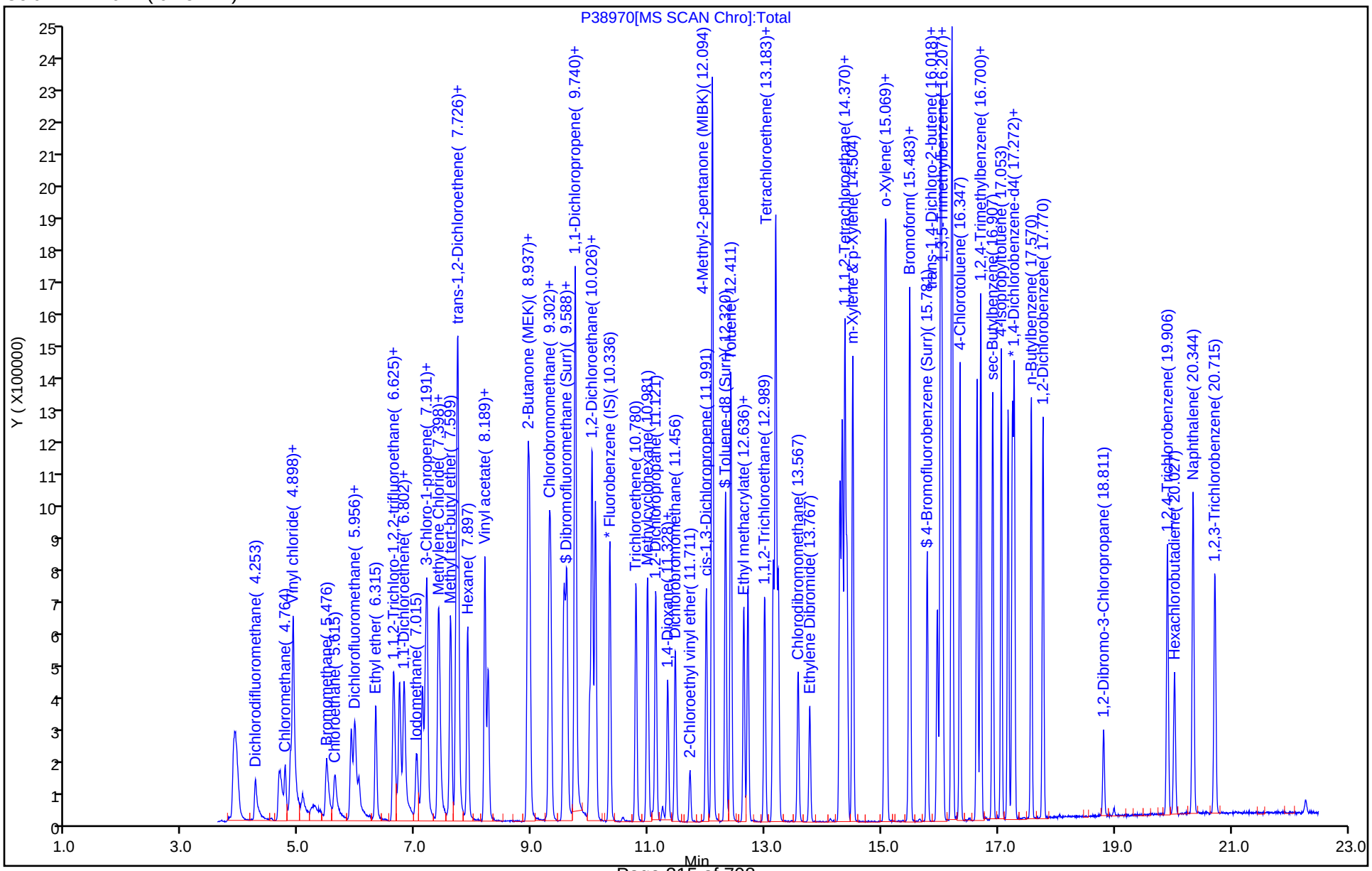
Report Date: 05-Dec-2018 12:01:36 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38970.D

Injection Date:	05-Dec-2018 10:08:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

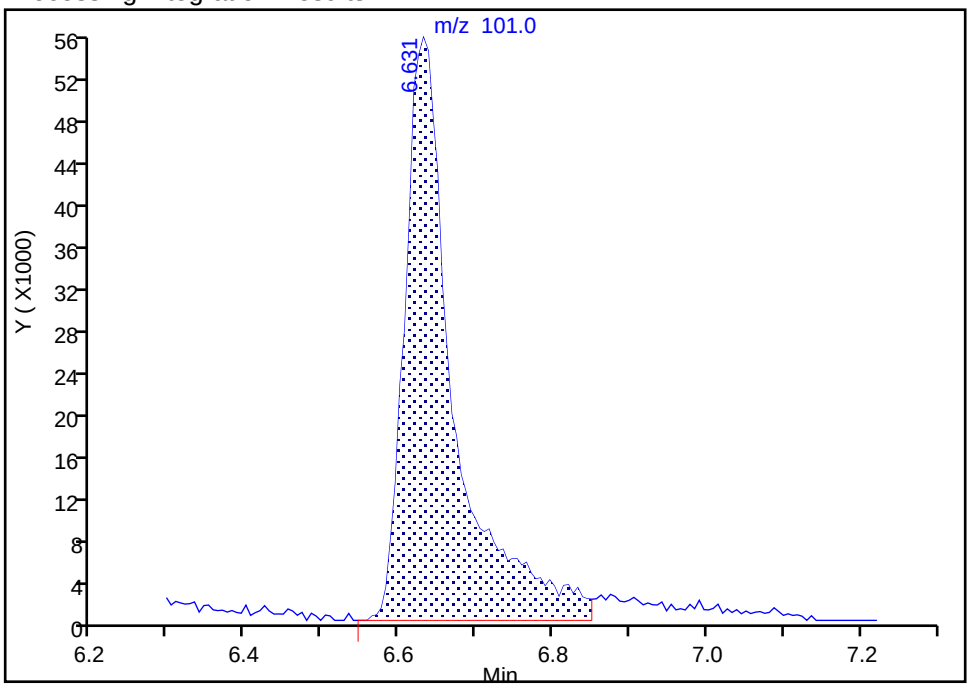
Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38970.D
Injection Date: 05-Dec-2018 10:08:30 Instrument ID: HP5973P
Lims ID: LCS
Client ID:
Operator ID: RF ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

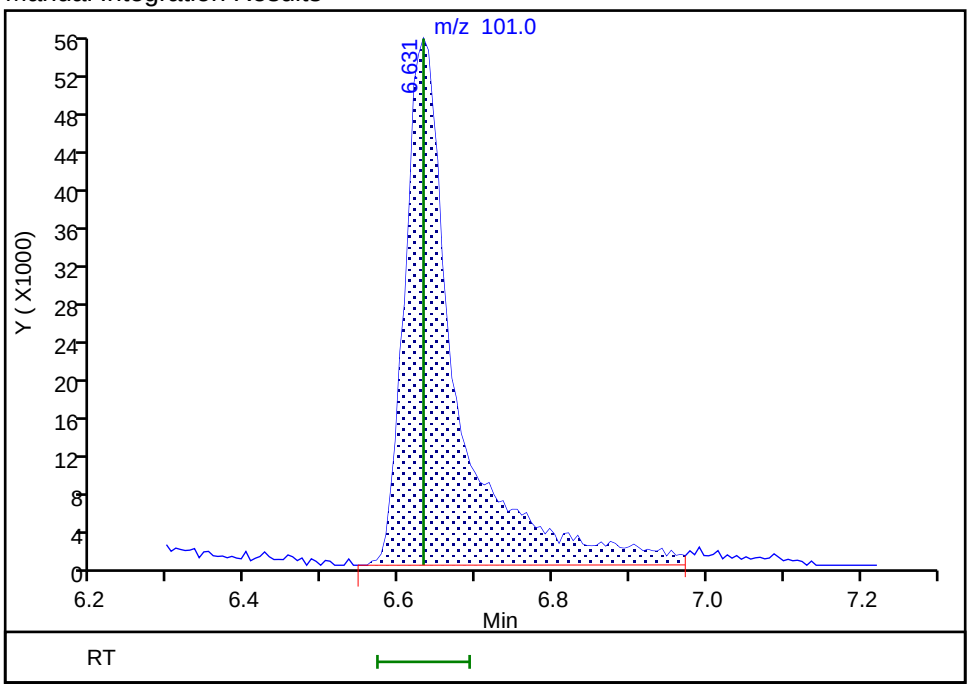
Processing Integration Results

RT: 6.63
Area: 248507
Amount: 24.637414
Amount Units: ug/L



Manual Integration Results

RT: 6.63
Area: 260534
Amount: 25.829791
Amount Units: ug/L



Reviewer: farrellr, 05-Dec-2018 12:00:14
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 MS | Lab Sample ID: 480-146076-7 MS

Matrix: Water | Lab File ID: P38989.D

Analysis Method: 8260C | Date Collected: 11/29/2018 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 19:08

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.6		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	33.5		1.0	0.21
79-00-5	1,1,2-Trichloroethane	29.1		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.8		1.0	0.31
75-34-3	1,1-Dichloroethane	28.4		1.0	0.38
75-35-4	1,1-Dichloroethene	23.1		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.9		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	30.0		1.0	0.39
95-50-1	1,2-Dichlorobenzene	27.4		1.0	0.79
107-06-2	1,2-Dichloroethane	28.7		1.0	0.21
78-87-5	1,2-Dichloropropane	28.6		1.0	0.72
541-73-1	1,3-Dichlorobenzene	27.5		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.9		1.0	0.84
78-93-3	2-Butanone (MEK)	129		10	1.3
591-78-6	2-Hexanone	150		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	159		5.0	2.1
67-64-1	Acetone	104		10	3.0
71-43-2	Benzene	28.9		1.0	0.41
75-27-4	Bromodichloromethane	28.7		1.0	0.39
75-25-2	Bromoform	26.2		1.0	0.26
74-83-9	Bromomethane	25.2		1.0	0.69
75-15-0	Carbon disulfide	28.8		1.0	0.19
56-23-5	Carbon tetrachloride	26.5		1.0	0.27
108-90-7	Chlorobenzene	26.1		1.0	0.75
124-48-1	Dibromochloromethane	26.7		1.0	0.32
75-00-3	Chloroethane	31.1		1.0	0.32
67-66-3	Chloroform	28.2		1.0	0.34
74-87-3	Chloromethane	30.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.0		1.0	0.36
110-82-7	Cyclohexane	27.2		1.0	0.18
75-71-8	Dichlorodifluoromethane	19.9		1.0	0.68
100-41-4	Ethylbenzene	28.4		1.0	0.74
106-93-4	1,2-Dibromoethane	27.2		1.0	0.73
98-82-8	Isopropylbenzene	30.1		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 MS | Lab Sample ID: 480-146076-7 MS

Matrix: Water | Lab File ID: P38989.D

Analysis Method: 8260C | Date Collected: 11/29/2018 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 19:08

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.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	49.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	28.7		1.0	0.16
108-87-2	Methylcyclohexane	22.9		1.0	0.16
75-09-2	Methylene Chloride	27.8		1.0	0.44
100-42-5	Styrene	26.7		1.0	0.73
127-18-4	Tetrachloroethene	23.8		1.0	0.36
108-88-3	Toluene	27.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	29.5		1.0	0.37
79-01-6	Trichloroethene	25.4		1.0	0.46
75-69-4	Trichlorofluoromethane	26.0		1.0	0.88
75-01-4	Vinyl chloride	30.1		1.0	0.90
1330-20-7	Xylenes, Total	54.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	84		73-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38989.D
Lims ID: 480-146076-C-7 MS
Client ID: MW-8
Sample Type: MS
Inject. Date: 05-Dec-2018 19:08:30 ALS Bottle#: 23 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-146076-C-7 MS
Misc. Info.: 480-0077001-015
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Dec-2018 08:44:28 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: farrellr Date: 06-Dec-2018 08:44:27

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	10.330	10.336	-0.006	98	166525	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.285	14.285	0.000	88	330415	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.241	0.006	96	317359	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.533	9.539	-0.006	91	205053	25.0	21.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.990	9.990	0.000	0	130355	25.0	23.5	
$ 5 Toluene-d8 (Surr)	98	12.320	12.319	0.000	94	736831	25.0	23.2	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	86	218737	25.0	21.1	
10 Dichlorodifluoromethane	85	4.247	4.253	-0.006	98	240752	25.0	19.9	
11 Chloromethane	50	4.666	4.679	-0.013	99	585334	25.0	30.6	
17 Vinyl chloride	62	4.855	4.855	0.000	98	488709	25.0	30.1	
12 Bromomethane	94	5.476	5.476	0.000	92	286607	25.0	25.2	
13 Chloroethane	64	5.622	5.615	0.007	97	270184	25.0	31.1	
14 Trichlorofluoromethane	101	5.956	5.962	-0.006	98	467173	25.0	26.0	
16 1,1,2-Trichloro-1,2,2-trif	101	6.631	6.631	0.000	66	195173	25.0	21.8	M
25 1,1-Dichloroethene	96	6.729	6.723	0.006	93	234002	25.0	23.1	
24 Acetone	43	6.802	6.801	0.000	98	586216	125.0	104.3	
27 Carbon disulfide	76	7.118	7.124	0.000	100	819411	25.0	28.8	
30 Methyl acetate	43	7.173	7.167	0.006	99	564719	50.0	49.8	
31 Methylene Chloride	84	7.392	7.392	0.000	97	328031	25.0	27.8	
32 Methyl tert-butyl ether	73	7.599	7.593	0.000	99	838726	25.0	28.7	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	94	271722	25.0	24.6	
40 1,1-Dichloroethane	63	8.250	8.244	0.006	97	545176	25.0	28.4	
44 2-Butanone (MEK)	43	8.925	8.925	0.000	99	977107	125.0	128.6	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	87	316119	25.0	25.6	
49 Chloroform	83	9.320	9.320	0.000	96	522445	25.0	28.2	
52 1,1,1-Trichloroethane	97	9.558	9.545	0.000	97	421503	25.0	27.6	
54 Cyclohexane	56	9.594	9.600	-0.006	96	397792	25.0	27.2	
55 Carbon tetrachloride	117	9.752	9.752	0.000	94	367614	25.0	26.5	
57 Benzene	78	10.032	10.026	0.006	98	1134475	25.0	28.9	
60 1,2-Dichloroethane	62	10.087	10.081	0.006	96	461067	25.0	28.7	
62 Trichloroethene	95	10.786	10.780	-0.001	96	279894	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
64 Methylcyclohexane	83	10.981	10.981	0.000	97	299778	25.0	22.9	
63 1,2-Dichloropropane	63	11.121	11.121	0.000	90	315320	25.0	28.6	
70 Dichlorobromomethane	83	11.456	11.462	-0.006	97	410864	25.0	28.7	
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	92	443450	25.0	27.0	
75 4-Methyl-2-pentanone (MIBK	43	12.094	12.094	0.000	99	2125379	125.0	159.4	
76 Toluene	92	12.411	12.405	0.000	98	683116	25.0	27.5	
78 trans-1,3-Dichloropropene	75	12.703	12.702	0.000	98	436311	25.0	29.5	
79 1,1,2-Trichloroethane	83	12.995	12.994	0.000	93	239111	25.0	29.1	
80 Tetrachloroethene	166	13.141	13.140	0.000	91	245135	25.0	23.8	
83 2-Hexanone	43	13.183	13.183	0.000	98	1572428	125.0	149.8	
81 Chlorodibromomethane	129	13.567	13.566	0.000	90	298597	25.0	26.7	
85 Ethylene Dibromide	107	13.767	13.767	0.000	98	285612	25.0	27.2	
87 Chlorobenzene	112	14.321	14.327	-0.006	96	749788	25.0	26.1	
89 Ethylbenzene	91	14.370	14.370	0.000	99	1241514	25.0	28.4	
90 m-Xylene & p-Xylene	106	14.504	14.503	0.000	0	490260		28.0	
93 o-Xylene	106	15.051	15.057	-0.006	97	472290		26.9	
94 Styrene	104	15.081	15.081	-0.001	94	789377	25.0	26.7	
92 Bromoform	173	15.465	15.464	0.000	92	196876	25.0	26.2	
95 Isopropylbenzene	105	15.483	15.488	0.000	97	1125736	25.0	30.1	
97 1,1,2,2-Tetrachloroethane	83	15.951	15.957	0.000	95	416977	25.0	33.5	
110 1,3-Dichlorobenzene	146	17.168	17.180	-0.006	96	561310	25.0	27.5	
111 1,4-Dichlorobenzene	146	17.278	17.283	0.000	92	570207	25.0	26.9	
116 1,2-Dichlorobenzene	146	17.770	17.776	0.000	94	546253	25.0	27.4	
117 1,2-Dibromo-3-Chloropropan	75	18.811	18.811	0.006	77	79615	25.0	30.0	
119 1,2,4-Trichlorobenzene	180	19.906	19.912	0.000	93	331415	25.0	24.9	
S 126 Xylenes, Total	1				0			54.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00141	Amount Added:	12.50	Units: uL	
GAS CORP mix_00316	Amount Added:	12.50	Units: uL	
P 8260 IS_00341	Amount Added:	1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added:	1.25	Units: uL	Run Reagent

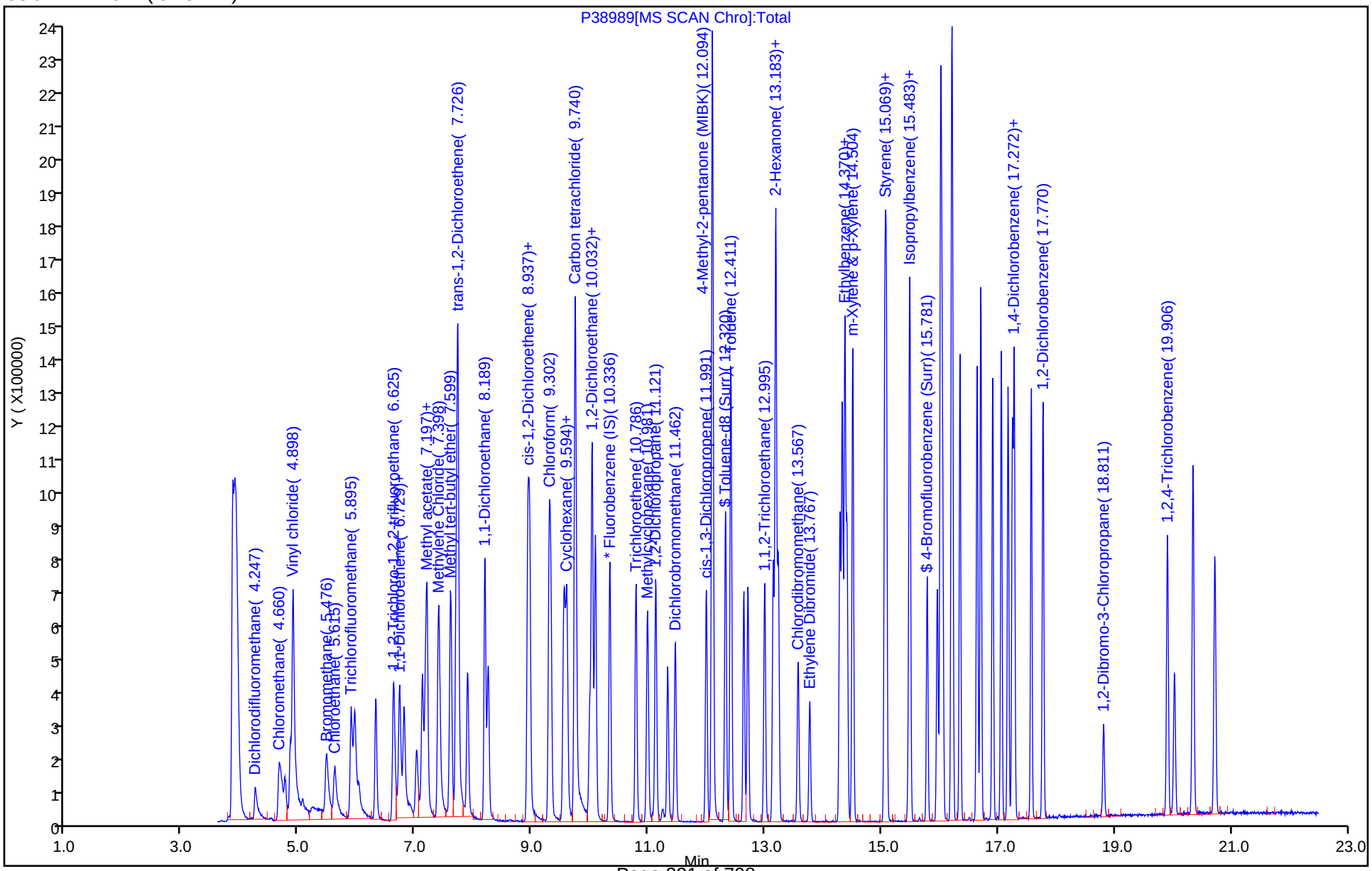
Report Date: 06-Dec-2018 08:44:28 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38989.D

Injection Date:	05-Dec-2018 19:08:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-146076-C-7 MS			Worklist Smp#:	15
Client ID:	MW-8				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

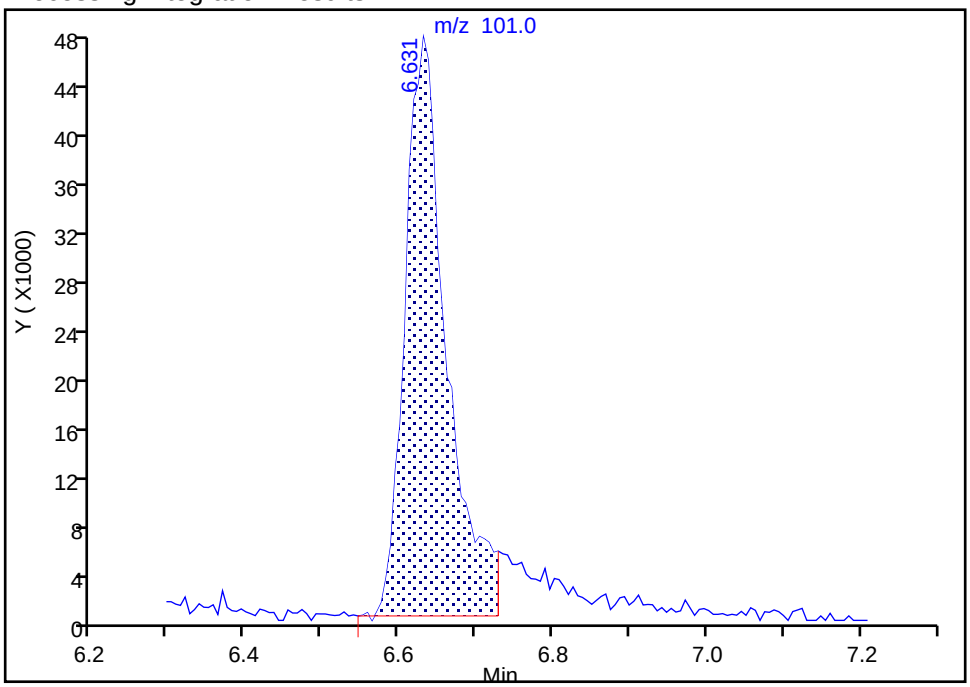
Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38989.D
Injection Date: 05-Dec-2018 19:08:30 Instrument ID: HP5973P
Lims ID: 480-146076-C-7 MS
Client ID: MW-8
Operator ID: RF ALS Bottle#: 23 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

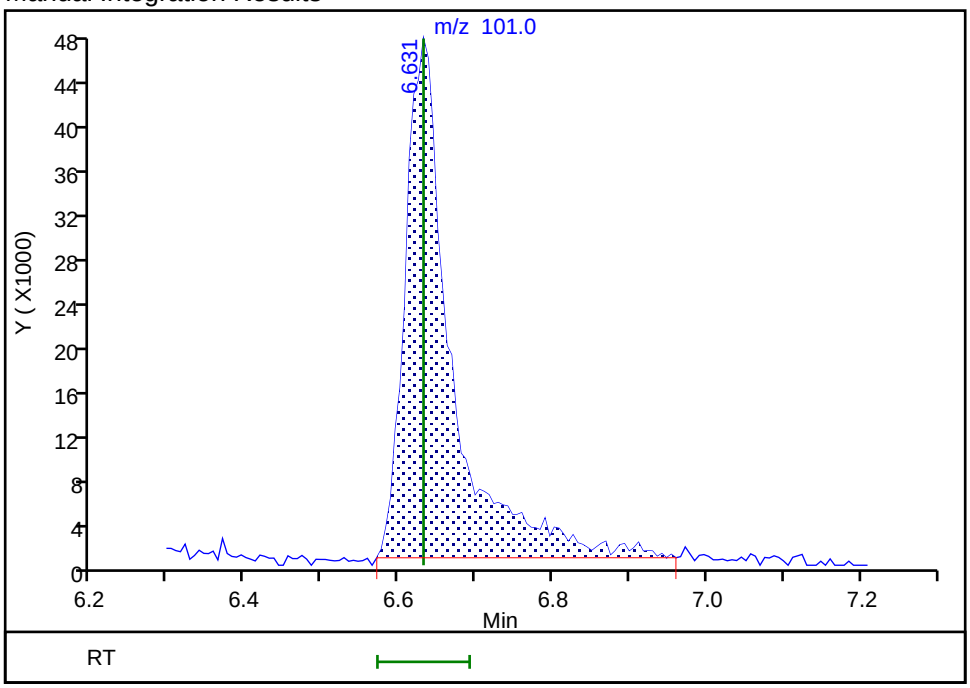
Processing Integration Results

RT: 6.63
Area: 174640
Amount: 19.501912
Amount Units: ug/L



Manual Integration Results

RT: 6.63
Area: 195173
Amount: 21.794816
Amount Units: ug/L



Reviewer: farrellr, 06-Dec-2018 08:43:59
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 MSD | Lab Sample ID: 480-146076-7 MSD

Matrix: Water | Lab File ID: P38990.D

Analysis Method: 8260C | Date Collected: 11/29/2018 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 19:35

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	29.4		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	33.0		1.0	0.21
79-00-5	1,1,2-Trichloroethane	28.8		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25.0		1.0	0.31
75-34-3	1,1-Dichloroethane	29.8		1.0	0.38
75-35-4	1,1-Dichloroethene	26.2		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.7		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	31.2		1.0	0.39
95-50-1	1,2-Dichlorobenzene	27.8		1.0	0.79
107-06-2	1,2-Dichloroethane	29.0		1.0	0.21
78-87-5	1,2-Dichloropropane	29.0		1.0	0.72
541-73-1	1,3-Dichlorobenzene	27.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	27.3		1.0	0.84
78-93-3	2-Butanone (MEK)	135		10	1.3
591-78-6	2-Hexanone	150		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	159		5.0	2.1
67-64-1	Acetone	102		10	3.0
71-43-2	Benzene	29.9		1.0	0.41
75-27-4	Bromodichloromethane	29.0		1.0	0.39
75-25-2	Bromoform	25.2		1.0	0.26
74-83-9	Bromomethane	26.2		1.0	0.69
75-15-0	Carbon disulfide	31.2		1.0	0.19
56-23-5	Carbon tetrachloride	27.2		1.0	0.27
108-90-7	Chlorobenzene	26.6		1.0	0.75
124-48-1	Dibromochloromethane	26.4		1.0	0.32
75-00-3	Chloroethane	32.2		1.0	0.32
67-66-3	Chloroform	29.2		1.0	0.34
74-87-3	Chloromethane	30.0		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.5		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.4		1.0	0.36
110-82-7	Cyclohexane	28.1		1.0	0.18
75-71-8	Dichlorodifluoromethane	20.4		1.0	0.68
100-41-4	Ethylbenzene	28.9		1.0	0.74
106-93-4	1,2-Dibromoethane	27.1		1.0	0.73
98-82-8	Isopropylbenzene	30.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 MSD | Lab Sample ID: 480-146076-7 MSD

Matrix: Water | Lab File ID: P38990.D

Analysis Method: 8260C | Date Collected: 11/29/2018 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 12/05/2018 19:35

Soil Aliquot Vol: | Dilution Factor: 1

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

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

Analysis Batch No.: 449099 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	51.7		2.5	1.3
1634-04-4	Methyl tert-butyl ether	28.0		1.0	0.16
108-87-2	Methylcyclohexane	24.1		1.0	0.16
75-09-2	Methylene Chloride	27.9		1.0	0.44
100-42-5	Styrene	27.9		1.0	0.73
127-18-4	Tetrachloroethene	24.8		1.0	0.36
108-88-3	Toluene	26.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	28.0		1.0	0.37
79-01-6	Trichloroethene	26.4		1.0	0.46
75-69-4	Trichlorofluoromethane	26.7		1.0	0.88
75-01-4	Vinyl chloride	30.1		1.0	0.90
1330-20-7	Xylenes, Total	55.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	91		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		77-120
460-00-4	4-Bromofluorobenzene (Surr)	84		73-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38990.D
Lims ID: 480-146076-C-7 MSD
Client ID: MW-8
Sample Type: MSD
Inject. Date: 05-Dec-2018 19:35:30 ALS Bottle#: 24 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-146076-C-7 MSD
Misc. Info.: 480-0077001-016
Operator ID: RF Instrument ID: HP5973P

Method: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 06-Dec-2018 08:44:28 Calib Date: 23-Nov-2018 20:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromdocs2018\q3\Buffalo\ChromData\HP5973P\20181123-76682.b\P38558.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0320

First Level Reviewer: farrellr Date: 06-Dec-2018 08:45:24

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	10.336	10.336	0.000	98	169222	25.0	25.0	
* 2 Chlorobenzene-d5	82	14.284	14.285	-0.001	88	336507	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	17.247	17.241	0.006	96	323654	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	9.539	9.539	0.000	92	209299	25.0	21.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	9.989	9.990	-0.001	0	135562	25.0	24.0	
$ 5 Toluene-d8 (Surr)	98	12.319	12.319	-0.001	95	739418	25.0	22.8	
$ 6 4-Bromofluorobenzene (Surr	174	15.781	15.781	0.000	86	223349	25.0	21.1	
10 Dichlorodifluoromethane	85	4.252	4.253	-0.001	99	250373	25.0	20.4	
11 Chloromethane	50	4.666	4.679	-0.013	99	584461	25.0	30.0	
17 Vinyl chloride	62	4.848	4.855	-0.007	98	496830	25.0	30.1	
12 Bromomethane	94	5.463	5.476	-0.013	92	302275	25.0	26.2	
13 Chloroethane	64	5.609	5.615	-0.006	98	284040	25.0	32.2	
14 Trichlorofluoromethane	101	5.956	5.962	-0.006	98	487285	25.0	26.7	
16 1,1,2-Trichloro-1,2,2-trif	101	6.631	6.631	0.000	75	227865	25.0	25.0	
25 1,1-Dichloroethene	96	6.728	6.723	0.005	93	269566	25.0	26.2	
24 Acetone	43	6.801	6.801	-0.001	98	582717	125.0	102.1	
27 Carbon disulfide	76	7.112	7.124	-0.006	99	900364	25.0	31.2	
30 Methyl acetate	43	7.172	7.167	0.005	99	595346	50.0	51.7	
31 Methylene Chloride	84	7.391	7.392	-0.001	97	334517	25.0	27.9	
32 Methyl tert-butyl ether	73	7.604	7.593	0.005	99	829989	25.0	28.0	
35 trans-1,2-Dichloroethene	96	7.696	7.696	0.000	93	294555	25.0	26.3	
40 1,1-Dichloroethane	63	8.249	8.244	0.005	97	580665	25.0	29.8	
44 2-Butanone (MEK)	43	8.924	8.925	-0.001	99	1044707	125.0	135.3	
43 cis-1,2-Dichloroethene	96	8.961	8.961	0.000	87	332640	25.0	26.5	
49 Chloroform	83	9.320	9.320	0.000	95	550528	25.0	29.2	
52 1,1,1-Trichloroethane	97	9.557	9.545	-0.001	97	456228	25.0	29.4	
54 Cyclohexane	56	9.600	9.600	0.000	96	416977	25.0	28.1	
55 Carbon tetrachloride	117	9.746	9.752	-0.006	87	383370	25.0	27.2	
57 Benzene	78	10.032	10.026	0.006	98	1189907	25.0	29.9	
60 1,2-Dichloroethane	62	10.086	10.081	0.005	96	472417	25.0	29.0	
62 Trichloroethene	95	10.786	10.780	-0.001	96	295878	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
64 Methylcyclohexane	83	10.981	10.981	0.000	95	320532	25.0	24.1	
63 1,2-Dichloropropane	63	11.127	11.121	0.006	91	325265	25.0	29.0	
70 Dichlorobromomethane	83	11.461	11.462	-0.001	97	421515	25.0	29.0	
73 cis-1,3-Dichloropropene	75	11.991	11.991	0.000	90	458622	25.0	27.4	
75 4-Methyl-2-pentanone (MIBK	43	12.094	12.094	0.000	99	2162298	125.0	159.3	
76 Toluene	92	12.410	12.405	-0.001	98	665590	25.0	26.3	
78 trans-1,3-Dichloropropene	75	12.702	12.702	-0.001	98	422421	25.0	28.0	
79 1,1,2-Trichloroethane	83	12.994	12.994	-0.001	94	240878	25.0	28.8	
80 Tetrachloroethene	166	13.140	13.140	-0.001	92	259892	25.0	24.8	
83 2-Hexanone	43	13.183	13.183	0.000	99	1600379	125.0	149.7	
81 Chlorodibromomethane	129	13.566	13.566	-0.001	90	300614	25.0	26.4	
85 Ethylene Dibromide	107	13.767	13.767	0.000	98	289311	25.0	27.1	
87 Chlorobenzene	112	14.321	14.327	-0.006	95	777630	25.0	26.6	
89 Ethylbenzene	91	14.369	14.370	-0.001	98	1290292	25.0	28.9	
90 m-Xylene & p-Xylene	106	14.503	14.503	-0.001	0	501848		28.1	
93 o-Xylene	106	15.057	15.057	0.000	97	488916		27.4	
94 Styrene	104	15.081	15.081	-0.001	95	838302	25.0	27.9	
92 Bromoform	173	15.464	15.464	-0.001	92	192710	25.0	25.2	
95 Isopropylbenzene	105	15.483	15.488	0.000	98	1181739	25.0	30.9	
97 1,1,2,2-Tetrachloroethane	83	15.951	15.957	0.000	96	419199	25.0	33.0	
110 1,3-Dichlorobenzene	146	17.174	17.180	0.000	96	578001	25.0	27.8	
111 1,4-Dichlorobenzene	146	17.277	17.283	-0.001	92	589801	25.0	27.3	
116 1,2-Dichlorobenzene	146	17.770	17.776	0.000	94	566437	25.0	27.8	
117 1,2-Dibromo-3-Chloropropan	75	18.804	18.811	-0.001	78	84259	25.0	31.2	
119 1,2,4-Trichlorobenzene	180	19.905	19.912	-0.001	93	348954	25.0	25.7	
S 126 Xylenes, Total	1				0			55.5	

Reagents:

8260 CORP mix_00141	Amount Added: 12.50	Units: uL	
GAS CORP mix_00316	Amount Added: 12.50	Units: uL	
P 8260 IS_00341	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00314	Amount Added: 1.25	Units: uL	Run Reagent

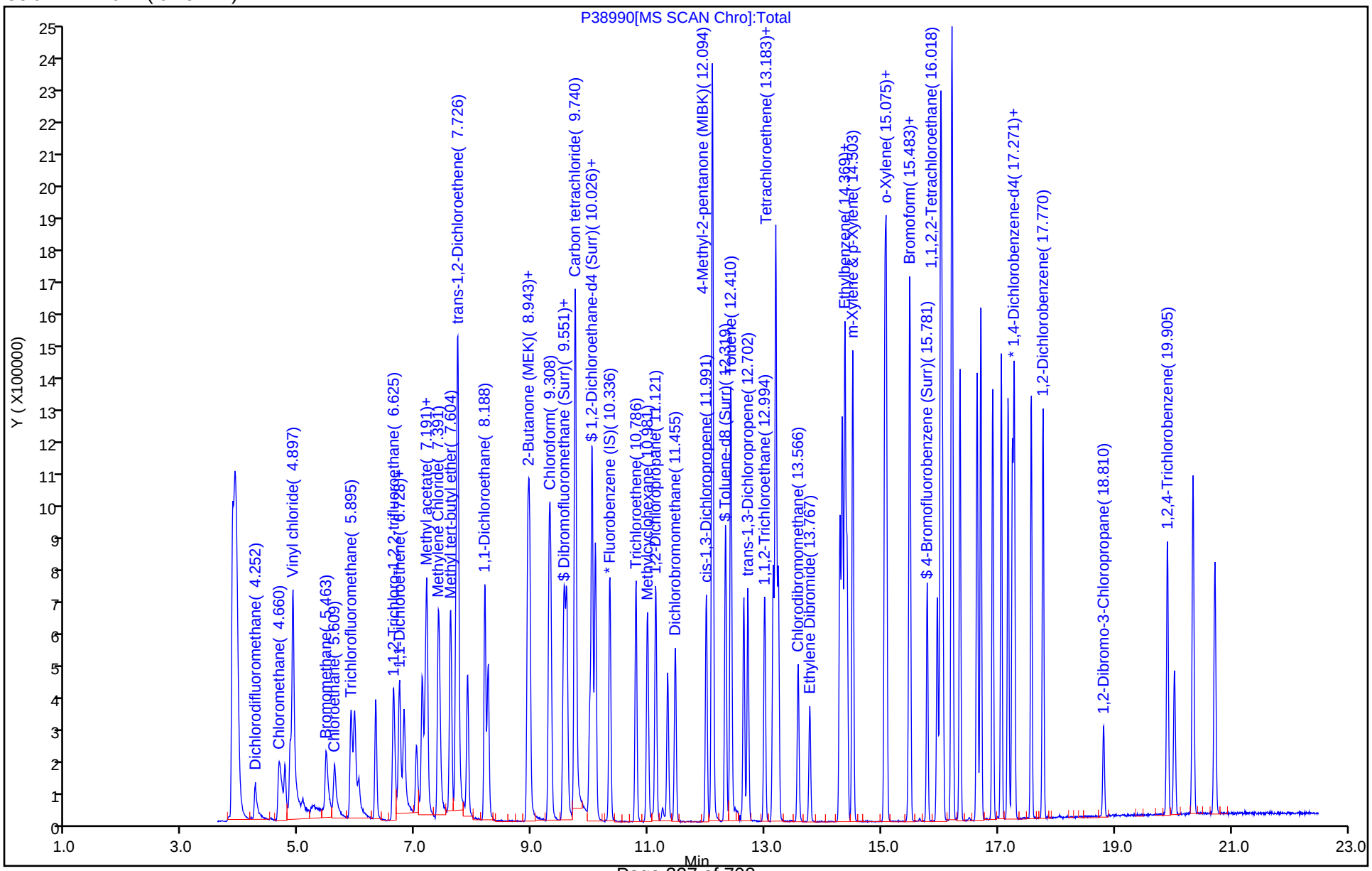
Report Date: 06-Dec-2018 08:45:25 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973P\20181205-77001.b\P38990.D

Injection Date:	05-Dec-2018 19:35:30	Instrument ID:	HP5973P	Operator ID:	RF
Lims ID:	480-146076-C-7 MSD			Worklist Smp#:	16
Client ID:	MW-8				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	P-8260H2O	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Instrument ID: HP5973N Start Date: 11/27/2018 13:37

Analysis Batch Number: 447647 End Date: 11/28/2018 00:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-447647/4		11/27/2018 13:37	1	N6195.D	ZB-624 (20) 0.18(mm)
IC 480-447647/6		11/27/2018 14:34	1	N6197.D	ZB-624 (20) 0.18(mm)
IC 480-447647/7		11/27/2018 15:01	1	N6198.D	ZB-624 (20) 0.18(mm)
IC 480-447647/8		11/27/2018 15:28	1	N6199.D	ZB-624 (20) 0.18(mm)
IC 480-447647/9		11/27/2018 15:55	1	N6200.D	ZB-624 (20) 0.18(mm)
IC 480-447647/10		11/27/2018 16:21	1	N6201.D	ZB-624 (20) 0.18(mm)
ICIS 480-447647/11		11/27/2018 16:48	1	N6202.D	ZB-624 (20) 0.18(mm)
IC 480-447647/12		11/27/2018 17:15	1	N6203.D	ZB-624 (20) 0.18(mm)
IC 480-447647/13		11/27/2018 17:43	1	N6204.D	ZB-624 (20) 0.18(mm)
MDLV 480-447647/15		11/27/2018 18:37	1		ZB-624 (20) 0.18(mm)
MDLV 480-447647/16		11/27/2018 19:04	1		ZB-624 (20) 0.18(mm)
IC 480-447647/18		11/27/2018 19:58	1		ZB-624 (20) 0.18(mm)
IC 480-447647/19		11/27/2018 20:25	1		ZB-624 (20) 0.18(mm)
IC 480-447647/20		11/27/2018 20:52	1		ZB-624 (20) 0.18(mm)
IC 480-447647/21		11/27/2018 21:19	1		ZB-624 (20) 0.18(mm)
IC 480-447647/22		11/27/2018 21:45	1		ZB-624 (20) 0.18(mm)
IC 480-447647/23		11/27/2018 22:12	1		ZB-624 (20) 0.18(mm)
IC 480-447647/24		11/27/2018 22:39	1		ZB-624 (20) 0.18(mm)
MDLV 480-447647/26		11/27/2018 23:33	1		ZB-624 (20) 0.18(mm)
ICV 480-447647/27		11/28/2018 00:00	1		ZB-624 (20) 0.18(mm)
ICV 480-447647/28		11/28/2018 00:27	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Instrument ID: HP5973N Start Date: 12/04/2018 08:16

Analysis Batch Number: 448834 End Date: 12/04/2018 19:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-448834/2		12/04/2018 08:16	1	N6424.D	ZB-624 (20) 0.18(mm)
CCVIS 480-448834/3		12/04/2018 08:40	1	N6425.D	ZB-624 (20) 0.18(mm)
CCV 480-448834/4		12/04/2018 09:07	1		ZB-624 (20) 0.18(mm)
LCS 480-448834/5		12/04/2018 09:34	1	N6427.D	ZB-624 (20) 0.18(mm)
RL 480-448834/6		12/04/2018 10:02	1		ZB-624 (20) 0.18(mm)
MB 480-448834/7		12/04/2018 10:30	1	N6429.D	ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 11:07	5		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 11:34	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 12:01	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 12:28	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 12:56	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 13:22	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 13:50	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 14:17	1		ZB-624 (20) 0.18(mm)
480-146076-9		12/04/2018 14:44	1	N6438.D	ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 15:11	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 15:38	80		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 16:05	50		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 16:32	40		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 16:59	4		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 17:27	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 17:54	5		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 18:20	1		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 18:48	50		ZB-624 (20) 0.18(mm)
ZZZZZ		12/04/2018 19:15	50		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Instrument ID: HP5973P Start Date: 11/23/2018 13:27

Analysis Batch Number: 447085 End Date: 11/23/2018 23:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-447085/5		11/23/2018 13:27	1	P38542.D	ZB-624 (60) 0.25(mm)
IC 480-447085/7		11/23/2018 14:22	1	P38544.D	ZB-624 (60) 0.25(mm)
IC 480-447085/8		11/23/2018 14:49	1	P38545.D	ZB-624 (60) 0.25(mm)
IC 480-447085/9		11/23/2018 15:17	1	P38546.D	ZB-624 (60) 0.25(mm)
IC 480-447085/10		11/23/2018 15:44	1	P38547.D	ZB-624 (60) 0.25(mm)
ICIS 480-447085/11		11/23/2018 16:12	1	P38548.D	ZB-624 (60) 0.25(mm)
IC 480-447085/12		11/23/2018 16:39	1	P38549.D	ZB-624 (60) 0.25(mm)
IC 480-447085/13		11/23/2018 17:06	1	P38550.D	ZB-624 (60) 0.25(mm)
IC 480-447085/15		11/23/2018 18:01	1		ZB-624 (60) 0.25(mm)
IC 480-447085/16		11/23/2018 18:29	1		ZB-624 (60) 0.25(mm)
IC 480-447085/17		11/23/2018 18:56	1		ZB-624 (60) 0.25(mm)
IC 480-447085/18		11/23/2018 19:24	1		ZB-624 (60) 0.25(mm)
IC 480-447085/19		11/23/2018 19:51	1		ZB-624 (60) 0.25(mm)
IC 480-447085/20		11/23/2018 20:18	1		ZB-624 (60) 0.25(mm)
IC 480-447085/21		11/23/2018 20:46	1		ZB-624 (60) 0.25(mm)
MDLV 480-447085/23		11/23/2018 21:41	1		ZB-624 (60) 0.25(mm)
MDLV 480-447085/24		11/23/2018 22:08	1		ZB-624 (60) 0.25(mm)
ICV 480-447085/25		11/23/2018 22:36	1		ZB-624 (60) 0.25(mm)
ICV 480-447085/26		11/23/2018 23:03	1		ZB-624 (60) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Instrument ID: HP5973P Start Date: 12/05/2018 08:46

Analysis Batch Number: 449099 End Date: 12/05/2018 19:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-449099/1		12/05/2018 08:46	1	P38967.D	ZB-624 (60) 0.25(mm)
CCVIS 480-449099/2		12/05/2018 09:13	1	P38968.D	ZB-624 (60) 0.25(mm)
CCV 480-449099/3		12/05/2018 09:41	1		ZB-624 (60) 0.25(mm)
LCS 480-449099/4		12/05/2018 10:08	1	P38970.D	ZB-624 (60) 0.25(mm)
RL 480-449099/5		12/05/2018 10:36	1		ZB-624 (60) 0.25(mm)
MB 480-449099/7		12/05/2018 11:03	1	P38972.D	ZB-624 (60) 0.25(mm)
480-146076-1		12/05/2018 11:46	1	P38973.D	ZB-624 (60) 0.25(mm)
480-146076-2		12/05/2018 12:14	1	P38974.D	ZB-624 (60) 0.25(mm)
480-146076-3		12/05/2018 12:41	1	P38975.D	ZB-624 (60) 0.25(mm)
480-146076-5		12/05/2018 13:09	1	P38976.D	ZB-624 (60) 0.25(mm)
480-146076-6		12/05/2018 13:37	1	P38977.D	ZB-624 (60) 0.25(mm)
480-146076-7		12/05/2018 14:04	1	P38978.D	ZB-624 (60) 0.25(mm)
480-146076-8		12/05/2018 14:32	1	P38979.D	ZB-624 (60) 0.25(mm)
ZZZZZ		12/05/2018 15:00	1		ZB-624 (60) 0.25(mm)
ZZZZZ		12/05/2018 15:27	1		ZB-624 (60) 0.25(mm)
ZZZZZ		12/05/2018 15:55	1		ZB-624 (60) 0.25(mm)
ZZZZZ		12/05/2018 16:23	1		ZB-624 (60) 0.25(mm)
ZZZZZ		12/05/2018 16:50	1		ZB-624 (60) 0.25(mm)
ZZZZZ		12/05/2018 17:18	1		ZB-624 (60) 0.25(mm)
ZZZZZ		12/05/2018 17:45	1		ZB-624 (60) 0.25(mm)
ZZZZZ		12/05/2018 18:13	1		ZB-624 (60) 0.25(mm)
ZZZZZ		12/05/2018 18:40	1		ZB-624 (60) 0.25(mm)
480-146076-7 MS		12/05/2018 19:08	1	P38989.D	ZB-624 (60) 0.25(mm)
480-146076-7 MSD		12/05/2018 19:35	1	P38990.D	ZB-624 (60) 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Batch Number: 448834 Batch Start Date: 12/04/18 08:16 Batch Analyst: Barone, Rachel L

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00140	BFB_WRK 00080	GAS CORP mix 00316
BFB 480-448834/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-448834/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-448834/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-448834/7		8260C		5 mL	5 mL				
480-146076-A-9	Trip Blank	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	N 8260 IS 00134	N_8260_Surr 00355				
BFB 480-448834/2		8260C							
CCVIS 480-448834/3		8260C		1 uL	1 uL				
LCS 480-448834/5		8260C		1 uL	1 uL				
MB 480-448834/7		8260C		1 uL	1 uL				
480-146076-A-9	Trip Blank	8260C	T	1 uL	1 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Batch Number: 449099 Batch Start Date: 12/05/18 08:46 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00141	BFB_WRK 00080	GAS CORP mix 00316
BFB 480-449099/1		8260C		1 uL	1 uL			1 uL	
CCVIS 480-449099/2		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-449099/4		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-449099/7		8260C		5 mL	5 mL				
480-146076-D-1	MW-5R	8260C	T	5 mL	5 mL	<2 SU			
480-146076-D-2	MW-2R	8260C	T	5 mL	5 mL	<2 SU			
480-146076-D-3	MW-7	8260C	T	5 mL	5 mL	<2 SU			
480-146076-D-5	MW-4	8260C	T	5 mL	5 mL	<2 SU			
480-146076-D-6	MW-6	8260C	T	5 mL	5 mL	<2 SU			
480-146076-D-7	MW-8	8260C	T	5 mL	5 mL	7 SU			
480-146076-C-7 MS	MW-8	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-146076-C-7 MSD	MW-8	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-146076-D-8	DUP-112918	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	P 8260 IS 00341	P 8260 Surr. 00314				
BFB 480-449099/1		8260C							
CCVIS 480-449099/2		8260C		1.25 uL	1.25 uL				
LCS 480-449099/4		8260C		1.25 uL	1.25 uL				
MB 480-449099/7		8260C		1.25 uL	1.25 uL				
480-146076-D-1	MW-5R	8260C	T	1.25 uL	1.25 uL				
480-146076-D-2	MW-2R	8260C	T	1.25 uL	1.25 uL				
480-146076-D-3	MW-7	8260C	T	1.25 uL	1.25 uL				
480-146076-D-5	MW-4	8260C	T	1.25 uL	1.25 uL				
480-146076-D-6	MW-6	8260C	T	1.25 uL	1.25 uL				
480-146076-D-7	MW-8	8260C	T	1.25 uL	1.25 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Batch Number: 449099 Batch Start Date: 12/05/18 08:46 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	P 8260 IS 00341	P 8260 Surr. 00314				
480-146076-C-7 MS	MW-8	8260C	T	1.25 uL	1.25 uL				
480-146076-C-7 MSD	MW-8	8260C	T	1.25 uL	1.25 uL				
480-146076-D-8	DUP-112918	8260C	T	1.25 uL	1.25 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
MW-5R	480-146076-1	102	80	61	71
MW-2R	480-146076-2	91	60	67	76
MW-7	480-146076-3	102	78	76	91
MW-4	480-146076-5	104	72	77	93
MW-6	480-146076-6	84	62	58	67
MW-8	480-146076-7	88	59	65	77
DUP-112918	480-146076-8	83	59	64	74
	MB 480-448984/1-A	84	59	44	48
	LCS 480-448984/2-A	99	65	47	55
MW-8 MS	480-146076-7 MS	104	71	67	79
MW-8 MSD	480-146076-7 MSD	100	68	60	70

	QC LIMITS
TCX = Tetrachloro-m-xylene	39-121
DCBP = DCB Decachlorobiphenyl	19-120

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7_32-278.D

Lab ID: LCS 480-448984/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	4.00	3.63	91	62-130	
PCB-1260	4.00	3.14	79	56-123	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7_32-279.D

Lab ID: 480-146076-7 MS Client ID: MW-8 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
PCB-1016	4.00	ND	3.63	91	28-150	
PCB-1260	4.00	ND	3.35	84	25-131	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7_32-280.D

Lab ID: 480-146076-7 MSD Client ID: MW-8 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	4.00	3.43	86	6	50	28-150	
PCB-1260	4.00	3.13	78	7	50	25-131	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: MB 480-448984/1-A

Matrix: Water Date Extracted: 12/04/2018 14:36

Lab File ID:(1) 7_32-277.D Lab File ID:(2) 7_32-277.D

Date Analyzed:(1) 12/05/2018 19:06 Date Analyzed:(2) 12/05/2018 19:06

Instrument ID:(1) HP6890-7 Instrument ID:(2) HP6890-7

GC Column:(1) ZB-5 ID: 0.53(mm) GC Column:(2) ZB-35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-448984/2-A	12/05/2018 19:22	12/05/2018 19:22
MW-8 MS	480-146076-7 MS	12/05/2018 19:37	12/05/2018 19:37
MW-8 MSD	480-146076-7 MSD	12/05/2018 19:53	12/05/2018 19:53
MW-8	480-146076-7	12/05/2018 20:09	12/05/2018 20:09
MW-5R	480-146076-1	12/05/2018 20:57	12/05/2018 20:57
MW-2R	480-146076-2	12/05/2018 21:13	12/05/2018 21:13
MW-7	480-146076-3	12/05/2018 21:29	12/05/2018 21:29
MW-4	480-146076-5	12/05/2018 21:45	12/05/2018 21:45
MW-6	480-146076-6	12/05/2018 22:01	12/05/2018 22:01
DUP-112918	480-146076-8	12/05/2018 22:17	12/05/2018 22:17

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Sample No.: ICIS 480-413004/6 Date Analyzed: 05/07/2018 14:58

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 7_13-128.D Heated Purge: (Y/N) N

Calibration ID: 33759

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		12254361	1.06				
UPPER LIMIT		24508722	1.56				
LOWER LIMIT		6127181	0.56				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-449147/5		13150750	1.05				

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Sample No.: ICIS 480-413004/6 Date Analyzed: 05/07/2018 14:58

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 7_13-128.D Heated Purge: (Y/N) N

Calibration ID: 33760

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		26060757	0.91				
UPPER LIMIT		52121514	1.41				
LOWER LIMIT		13030379	0.41				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-449147/5		39612620	0.89				

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Sample No.: CCVIS 480-449147/5 Date Analyzed: 12/05/2018 12:32

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 7_32-271.D Heated Purge: (Y/N) N

Calibration ID: 34896

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		13150750	1.05				
UPPER LIMIT		26301500	1.55				
LOWER LIMIT		6575375	0.55				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-449147/6		13348395	1.05				
CCV 480-449147/7		13489888	1.05				
CCV 480-449147/8		12465167	1.05				
CCV 480-449147/9		11816006	1.05				
MB 480-448984/1-A		14947362	1.05				
LCS 480-448984/2-A		13431057	1.05				
480-146076-7 MS	MW-8 MS	13053478	1.05				
480-146076-7 MSD	MW-8 MSD	13330344	1.05				
480-146076-7	MW-8	13843123	1.05				
480-146076-1	MW-5R	13916031	1.05				
480-146076-2	MW-2R	13812996	1.05				
480-146076-3	MW-7	12919062	1.05				
480-146076-5	MW-4	13491239	1.05				
480-146076-6	MW-6	13508548	1.05				
480-146076-8	DUP-112918	15627242	1.05				
CCV 480-449147/31		12440243	1.05				

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Sample No.: CCVIS 480-449147/5 Date Analyzed: 12/05/2018 12:32

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 7_32-271.D Heated Purge: (Y/N) N

Calibration ID: 34897

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		39612620	0.89				
UPPER LIMIT		79225240	1.39				
LOWER LIMIT		19806310	0.39				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-449147/6		39287210	0.89				
CCV 480-449147/7		39778392	0.89				
CCV 480-449147/8		37097722	0.89				
CCV 480-449147/9		35025191	0.89				
MB 480-448984/1-A		48180695	0.89				
LCS 480-448984/2-A		42599103	0.89				
480-146076-7 MS	MW-8 MS	41260625	0.89				
480-146076-7 MSD	MW-8 MSD	42081511	0.89				
480-146076-7	MW-8	44285261	0.89				
480-146076-1	MW-5R	43958614	0.89				
480-146076-2	MW-2R	44728528	0.89				
480-146076-3	MW-7	40764005	0.89				
480-146076-5	MW-4	43220285	0.89				
480-146076-6	MW-6	42941672	0.89				
480-146076-8	DUP-112918	50370559	0.89				
CCV 480-449147/31		36863439	0.89				

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 MS Lab Sample ID: 480-146076-7 MS

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 12/05/2018 19:37 Date Analyzed (2): 12/05/2018 19:37

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.84	2.81	2.87	3.33	3.63	7.4
		2	2.92	2.89	2.95	3.82		
		3	2.98	2.95	3.01	3.40		
		4	3.10	3.07	3.13	4.22		
		5	3.38	3.34	3.40	3.40		
	2	1	2.34	2.31	2.37	3.35	3.37	
		2	2.44	2.41	2.47	3.03		
		3	2.53	2.50	2.56	3.79		
		4	2.79	2.76	2.82	3.04		
		5	2.89	2.86	2.92	3.65		
PCB-1260	1	1	4.29	4.25	4.31	3.11	3.35	5.8
		2	4.47	4.44	4.50	3.17		
		3	4.70	4.66	4.72	3.59		
		4	5.01	4.98	5.04	3.34		
		5	5.22	5.19	5.25	3.56		
	2	1	3.71	3.68	3.74	3.22	3.17	
		2	4.12	4.10	4.16	3.17		
		3	4.42	4.40	4.46	3.21		
		4	4.57	4.55	4.61	3.07		
		5	4.89	4.86	4.92	3.15		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 MSD Lab Sample ID: 480-146076-7 MSD

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 12/05/2018 19:53 Date Analyzed (2): 12/05/2018 19:53

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.84	2.81	2.87	3.17	3.43	10.4
		2	2.92	2.89	2.95	3.61		
		3	2.98	2.95	3.01	3.23		
		4	3.10	3.07	3.13	3.93		
		5	3.37	3.34	3.40	3.22		
	2	1	2.34	2.31	2.37	3.19	3.09	
		2	2.44	2.41	2.47	2.77		
		3	2.53	2.50	2.56	3.46		
		4	2.79	2.76	2.82	2.73		
		5	2.89	2.86	2.92	3.30		
PCB-1260	1	1	4.29	4.25	4.31	2.93	3.13	5.3
		2	4.47	4.44	4.50	2.97		
		3	4.69	4.66	4.72	3.37		
		4	5.01	4.98	5.04	3.09		
		5	5.22	5.19	5.25	3.29		
	2	1	3.71	3.68	3.74	3.02	2.97	
		2	4.12	4.10	4.16	2.95		
		3	4.43	4.40	4.46	2.99		
		4	4.57	4.55	4.61	2.92		
		5	4.89	4.86	4.92	2.98		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-448984/2-A

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 12/05/2018 19:22 Date Analyzed (2): 12/05/2018 19:22

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.84	2.81	2.87	3.26	3.63	9.0
		2	2.92	2.89	2.95	3.78		
		3	2.98	2.95	3.01	3.41		
		4	3.10	3.07	3.13	4.27		
		5	3.37	3.34	3.40	3.43		
	2	1	2.34	2.31	2.37	3.22	3.32	
		2	2.44	2.41	2.47	3.01		
		3	2.52	2.50	2.56	3.76		
		4	2.79	2.76	2.82	3.00		
		5	2.89	2.86	2.92	3.61		
PCB-1260	1	1	4.28	4.25	4.31	3.00	3.14	7.7
		2	4.47	4.44	4.50	3.04		
		3	4.70	4.66	4.72	3.46		
		4	5.01	4.98	5.04	3.09		
		5	5.22	5.19	5.25	3.13		
	2	1	3.71	3.68	3.74	3.12	2.91	
		2	4.12	4.10	4.16	2.99		
		3	4.42	4.40	4.46	2.98		
		4	4.57	4.55	4.61	2.70		
		5	4.89	4.86	4.92	2.76		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-5R | Lab Sample ID: 480-146076-1

Matrix: Water | Lab File ID: 7_32-284.D

Analysis Method: 8082A | Date Collected: 11/29/2018 12:05

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 20:57

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		39-121
2051-24-3	DCB Decachlorobiphenyl	61		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-284.D
Lims ID: 480-146076-A-1-A
Client ID: MW-5R
Sample Type: Client
Inject. Date: 05-Dec-2018 20:57:37 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:30:59 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:31:15

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.048	1.048	0.000	13916031	0.5000	
2	0.892	0.892	0.000	43958614	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	687243	0.0203	
2	1.409	1.408	0.001	1689322	0.0160	
					RPD = 23.76	
3 1260 Res 3						
1	4.487	4.463	0.020	4898	NC	
2	4.433	4.418	0.007	15570	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.762	6.764	-0.002	259447	0.0121	
2	5.813	5.813	-0.001	611958	0.0142	
					RPD = 15.46	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

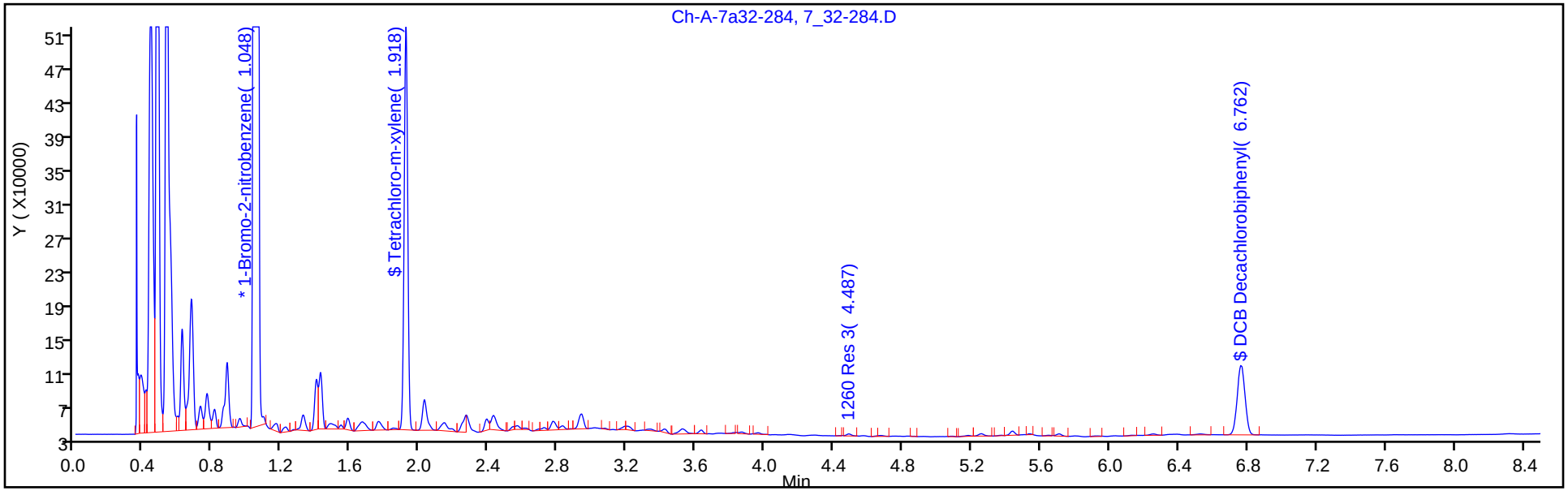
Report Date: 06-Dec-2018 09:31:15 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

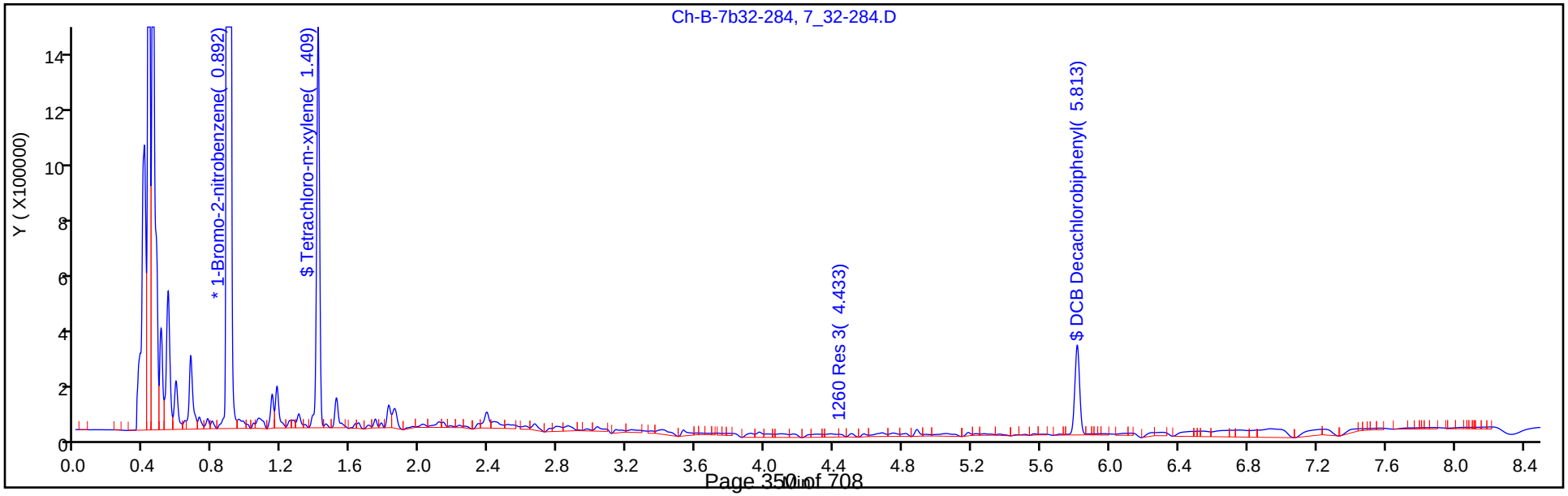
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-284.D

Injection Date:	05-Dec-2018 20:57:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-A-1-A	Lab Sample ID:	480-146076-1	Worklist Smp#:	18
Client ID:	MW-5R				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-5R | Lab Sample ID: 480-146076-1

Matrix: Water | Lab File ID: 7_32-284.D

Analysis Method: 8082A | Date Collected: 11/29/2018 12:05

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 20:57

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	80		39-121
2051-24-3	DCB Decachlorobiphenyl	71		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-284.D
Lims ID: 480-146076-A-1-A
Client ID: MW-5R
Sample Type: Client
Inject. Date: 05-Dec-2018 20:57:37 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:30:59 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:31:15

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.048	1.048	0.000	13916031	0.5000	
2	0.892	0.892	0.000	43958614	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	687243	0.0203	
2	1.409	1.408	0.001	1689322	0.0160	
					RPD = 23.76	
3 1260 Res 3						
1	4.487	4.463	0.020	4898	NC	
2	4.433	4.418	0.007	15570	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.762	6.764	-0.002	259447	0.0121	
2	5.813	5.813	-0.001	611958	0.0142	
					RPD = 15.46	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

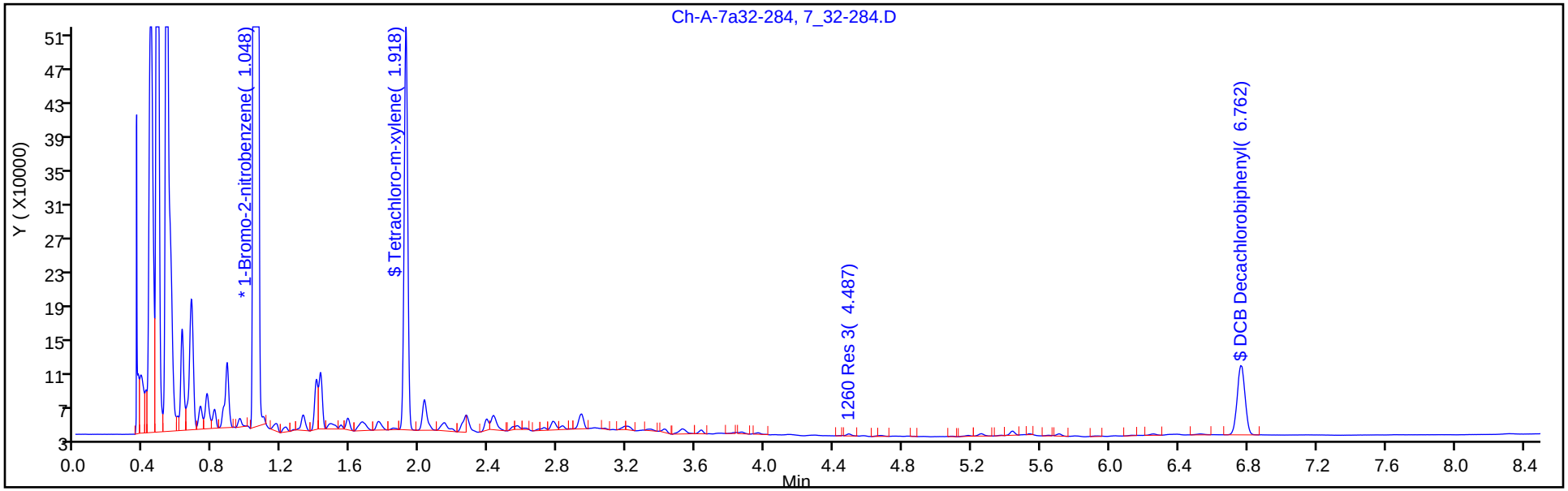
Report Date: 06-Dec-2018 09:31:15 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

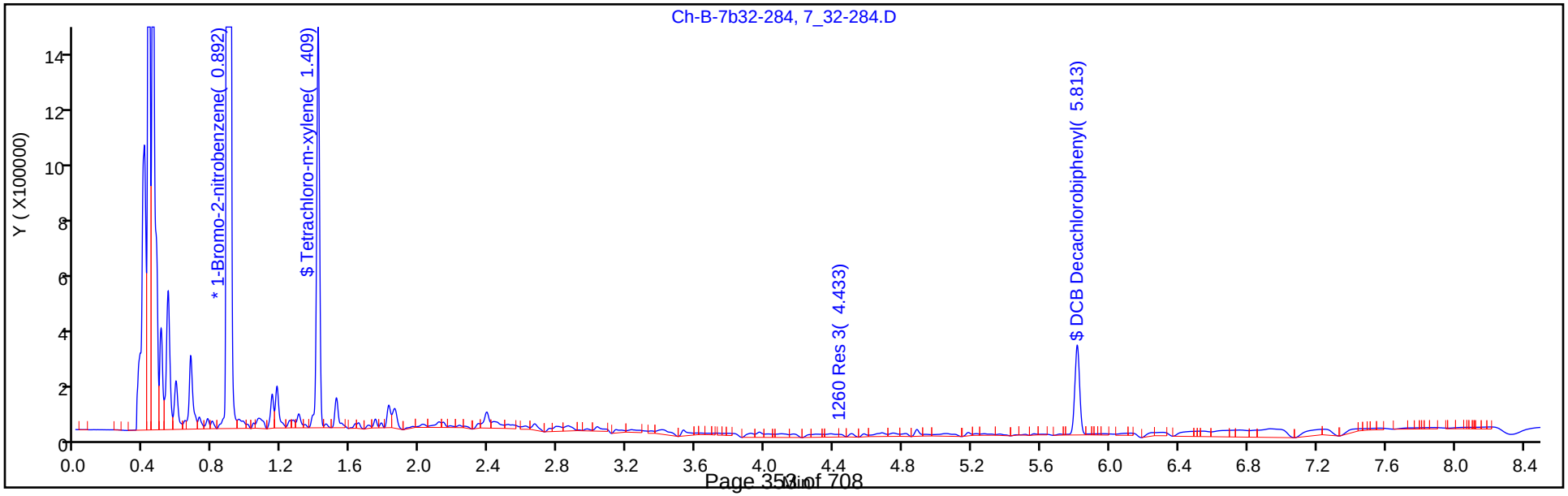
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-284.D

Injection Date:	05-Dec-2018 20:57:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-A-1-A	Lab Sample ID:	480-146076-1	Worklist Smp#:	18
Client ID:	MW-5R				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-2R | Lab Sample ID: 480-146076-2

Matrix: Water | Lab File ID: 7_32-285.D

Analysis Method: 8082A | Date Collected: 11/28/2018 13:40

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 21:13

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	91		39-121
2051-24-3	DCB Decachlorobiphenyl	67		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-285.D
Lims ID: 480-146076-B-2-A
Client ID: MW-2R
Sample Type: Client
Inject. Date: 05-Dec-2018 21:13:42 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:30:59 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:30:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.048	1.048	0.000	13812996	0.5000	
2	0.890	0.892	-0.002	44728528	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	614023	0.0183	
2	1.408	1.408	0.000	1299933	0.0120	
					RPD = 41.63	
3 1260 Res 3						
1	4.441	4.463	-0.026	539	NC	
2	4.426	4.418	-0.001	29647	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.762	6.764	-0.002	282049	0.0133	
2	5.813	5.813	0.000	663924	0.0152	
					RPD = 13.02	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

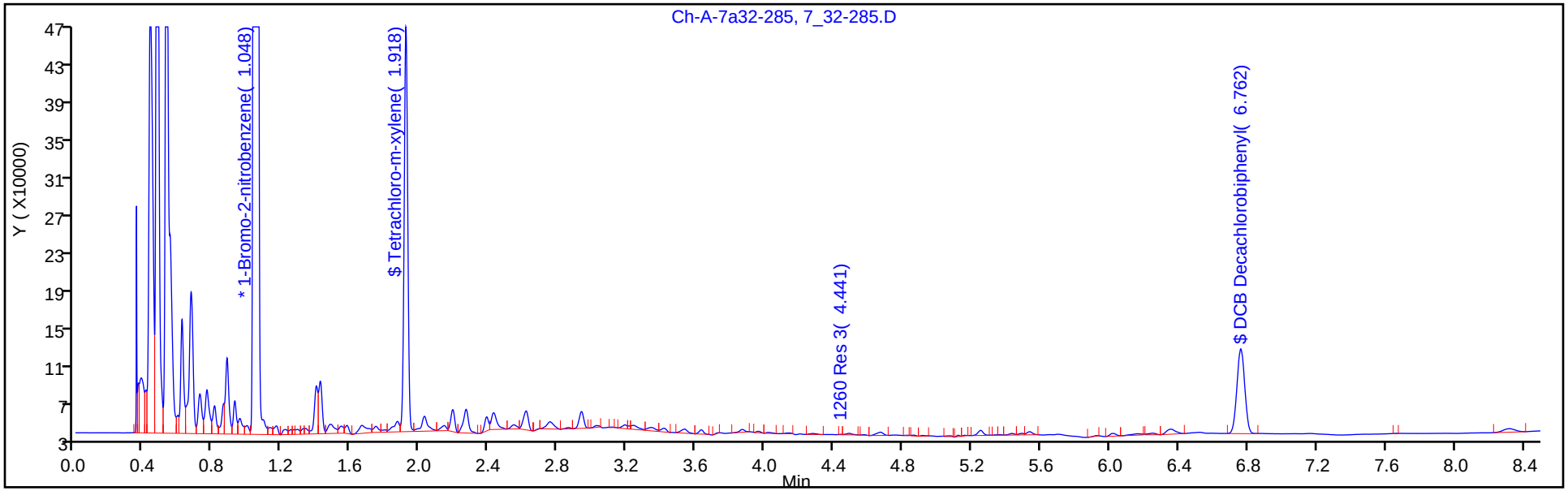
Report Date: 06-Dec-2018 09:30:59 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

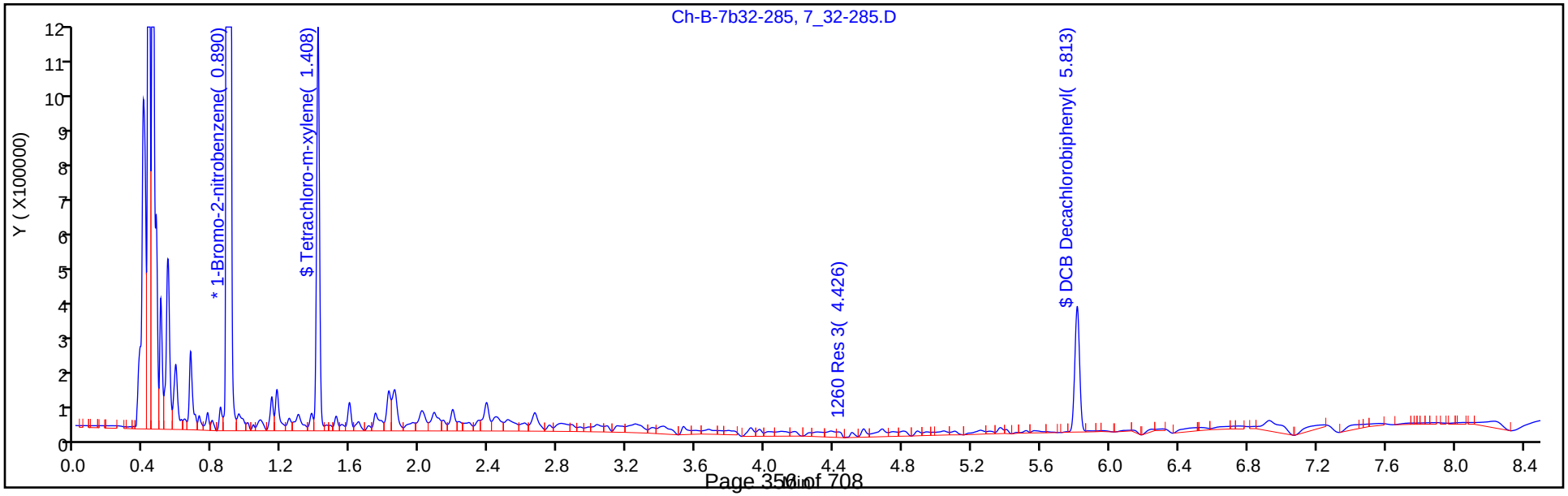
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-285.D

Injection Date:	05-Dec-2018 21:13:42	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-B-2-A	Lab Sample ID:	480-146076-2	Worklist Smp#:	19
Client ID:	MW-2R				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-2R | Lab Sample ID: 480-146076-2

Matrix: Water | Lab File ID: 7_32-285.D

Analysis Method: 8082A | Date Collected: 11/28/2018 13:40

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 21:13

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	60		39-121
2051-24-3	DCB Decachlorobiphenyl	76		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-285.D
Lims ID: 480-146076-B-2-A
Client ID: MW-2R
Sample Type: Client
Inject. Date: 05-Dec-2018 21:13:42 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:30:59 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:30:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.048	1.048	0.000	13812996	0.5000	
2	0.890	0.892	-0.002	44728528	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	614023	0.0183	
2	1.408	1.408	0.000	1299933	0.0120	
					RPD = 41.63	
3 1260 Res 3						
1	4.441	4.463	-0.026	539	NC	
2	4.426	4.418	-0.001	29647	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.762	6.764	-0.002	282049	0.0133	
2	5.813	5.813	0.000	663924	0.0152	
					RPD = 13.02	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

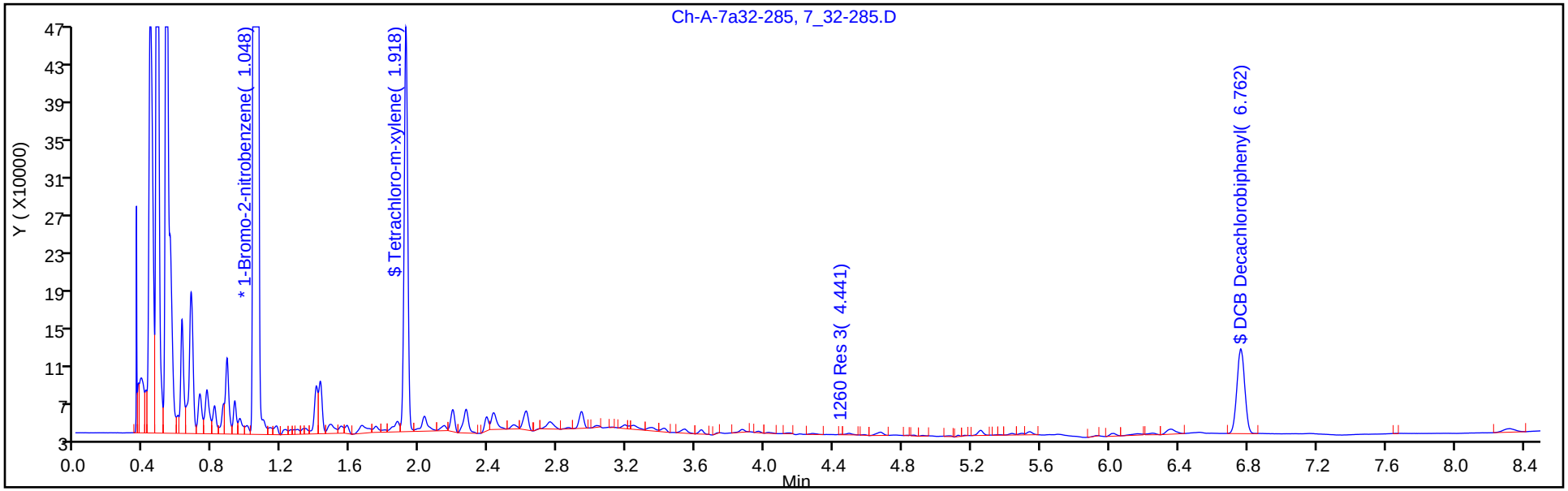
Report Date: 06-Dec-2018 09:30:59 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

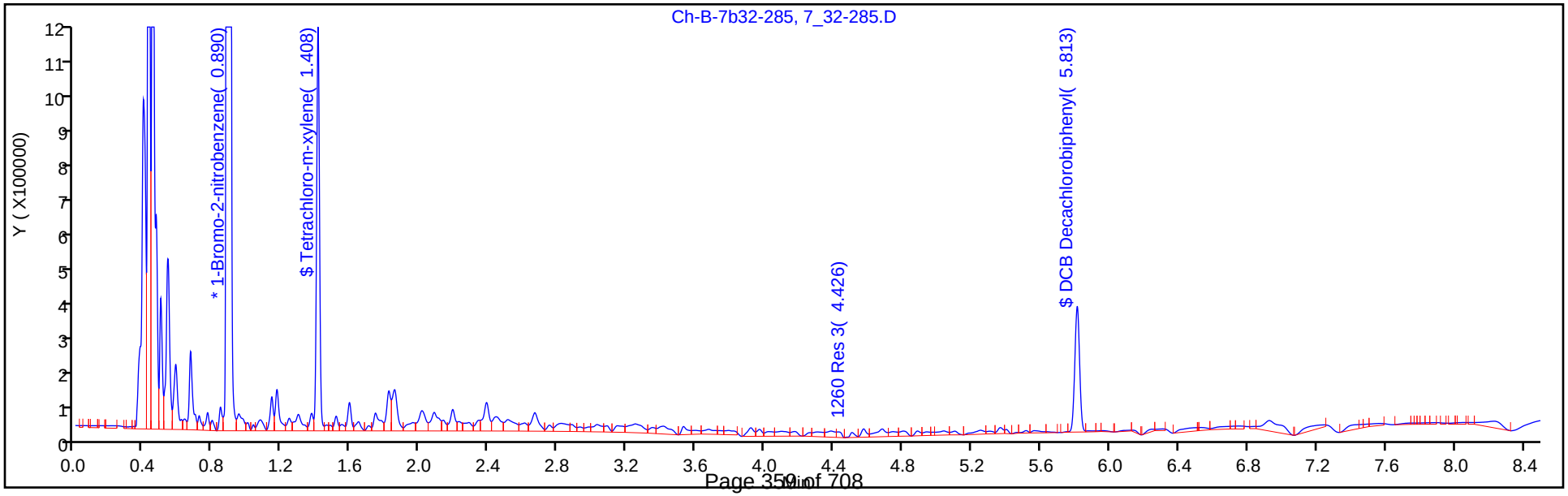
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-285.D

Injection Date:	05-Dec-2018 21:13:42	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-B-2-A	Lab Sample ID:	480-146076-2	Worklist Smp#:	19
Client ID:	MW-2R				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-7 | Lab Sample ID: 480-146076-3

Matrix: Water | Lab File ID: 7_32-286.D

Analysis Method: 8082A | Date Collected: 11/29/2018 13:00

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 21:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	102		39-121
2051-24-3	DCB Decachlorobiphenyl	76		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-286.D
Lims ID: 480-146076-B-3-A
Client ID: MW-7
Sample Type: Client
Inject. Date: 05-Dec-2018 21:29:35 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 10:02:59 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 10:02:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.048	1.048	0.000	12919062	0.5000	
2	0.891	0.892	-0.001	40764005	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	641109	0.0204	
2	1.408	1.408	0.000	1534457	0.0157	
					RPD = 26.35	
2 1260 Res 1						
1	4.083	4.083	-0.007	606	NC	
2	4.091	4.091	-0.008	15694	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.763	6.764	-0.002	298411	0.0151	
2	5.813	5.813	-0.001	717201	0.0182	
					RPD = 18.39	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

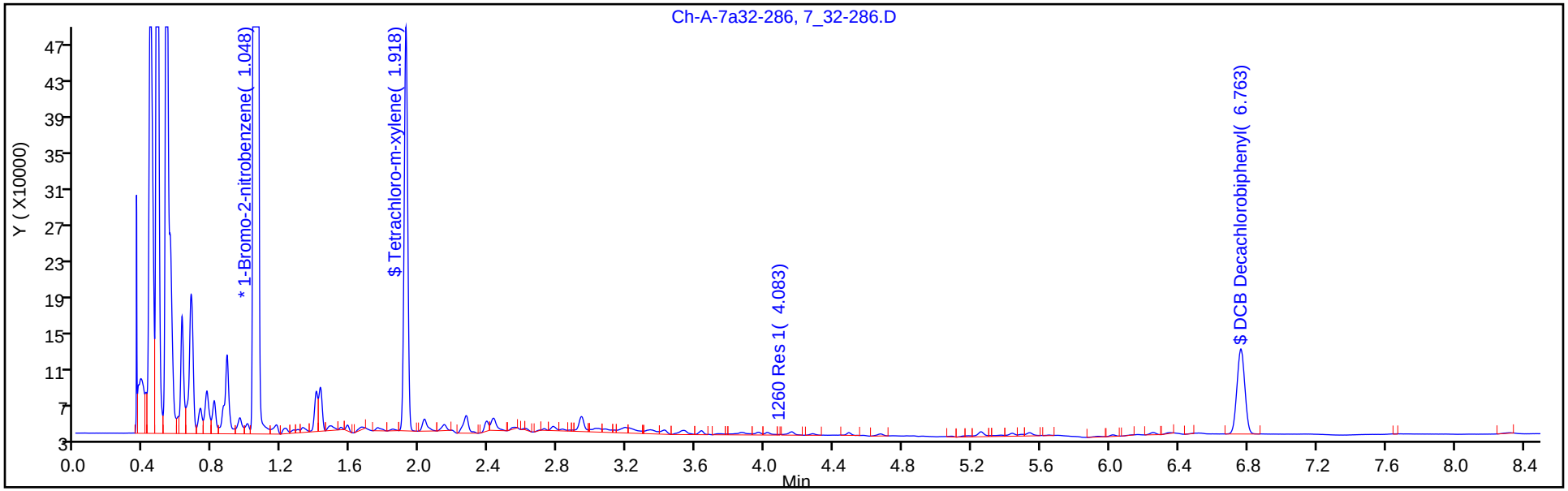
Report Date: 06-Dec-2018 10:02:59 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

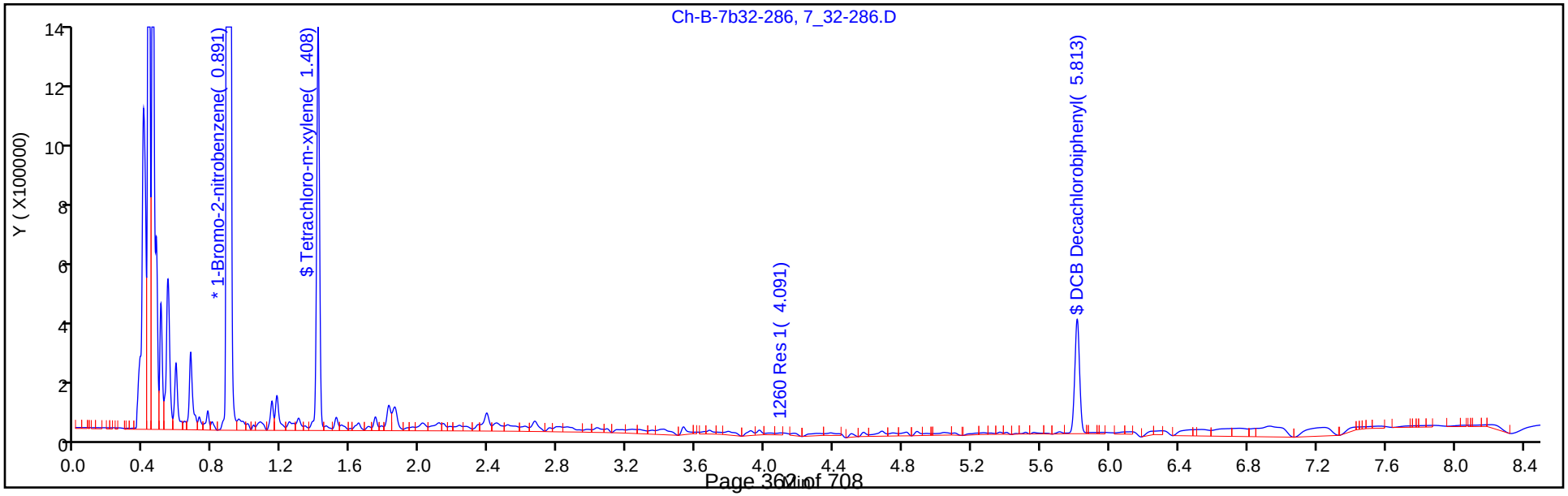
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-286.D

Injection Date:	05-Dec-2018 21:29:35	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-B-3-A	Lab Sample ID:	480-146076-3	Worklist Smp#:	20
Client ID:	MW-7				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-7 | Lab Sample ID: 480-146076-3

Matrix: Water | Lab File ID: 7_32-286.D

Analysis Method: 8082A | Date Collected: 11/29/2018 13:00

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 21:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	78		39-121
2051-24-3	DCB Decachlorobiphenyl	91		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-286.D
Lims ID: 480-146076-B-3-A
Client ID: MW-7
Sample Type: Client
Inject. Date: 05-Dec-2018 21:29:35 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 10:02:59 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 10:02:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.048	1.048	0.000	12919062	0.5000	
2	0.891	0.892	-0.001	40764005	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	641109	0.0204	
2	1.408	1.408	0.000	1534457	0.0157	
					RPD = 26.35	
2 1260 Res 1						
1	4.083	4.083	-0.007	606	NC	
2	4.091	4.091	-0.008	15694	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.763	6.764	-0.002	298411	0.0151	
2	5.813	5.813	-0.001	717201	0.0182	
					RPD = 18.39	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

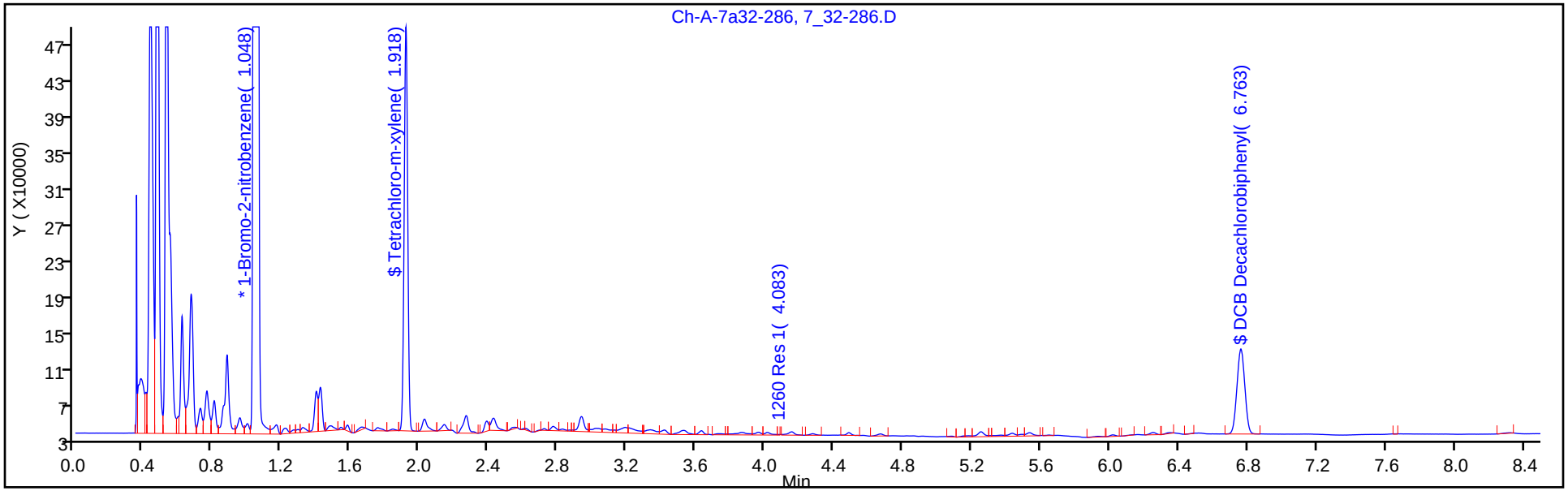
Report Date: 06-Dec-2018 10:03:00 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

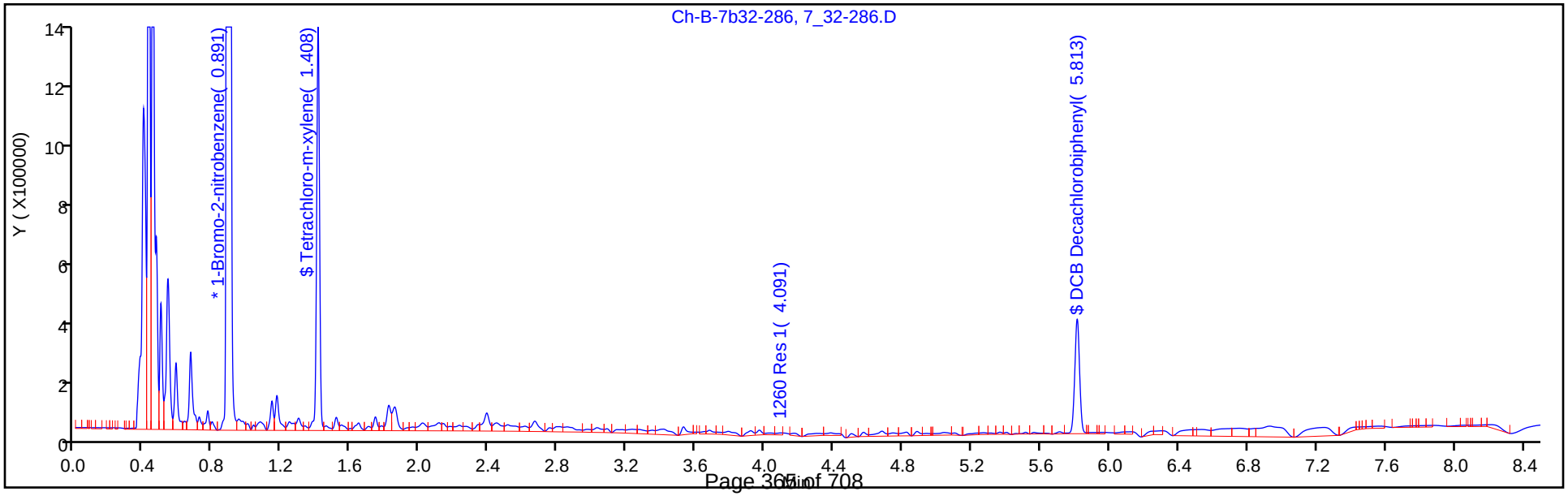
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-286.D

Injection Date:	05-Dec-2018 21:29:35	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-B-3-A	Lab Sample ID:	480-146076-3	Worklist Smp#:	20
Client ID:	MW-7				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-4 | Lab Sample ID: 480-146076-5

Matrix: Water | Lab File ID: 7_32-287.D

Analysis Method: 8082A | Date Collected: 11/29/2018 11:10

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 21:45

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		39-121
2051-24-3	DCB Decachlorobiphenyl	77		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-287.D
Lims ID: 480-146076-A-5-A
Client ID: MW-4
Sample Type: Client
Inject. Date: 05-Dec-2018 21:45:30 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 10:08:36 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 10:08:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.047	1.048	-0.001	13491239	0.5000	
2	0.890	0.892	-0.002	43220285	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	681173	0.0208	
2	1.408	1.408	0.000	1492101	0.0143	
					RPD = 36.82	
3 1260 Res 3						
1	4.438	4.460	-0.029	669	NC	
2	4.423	4.418	-0.003	28983	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.762	6.764	-0.002	318599	0.0155	
2	5.813	5.813	-0.001	778440	0.0186	
					RPD = 18.60	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

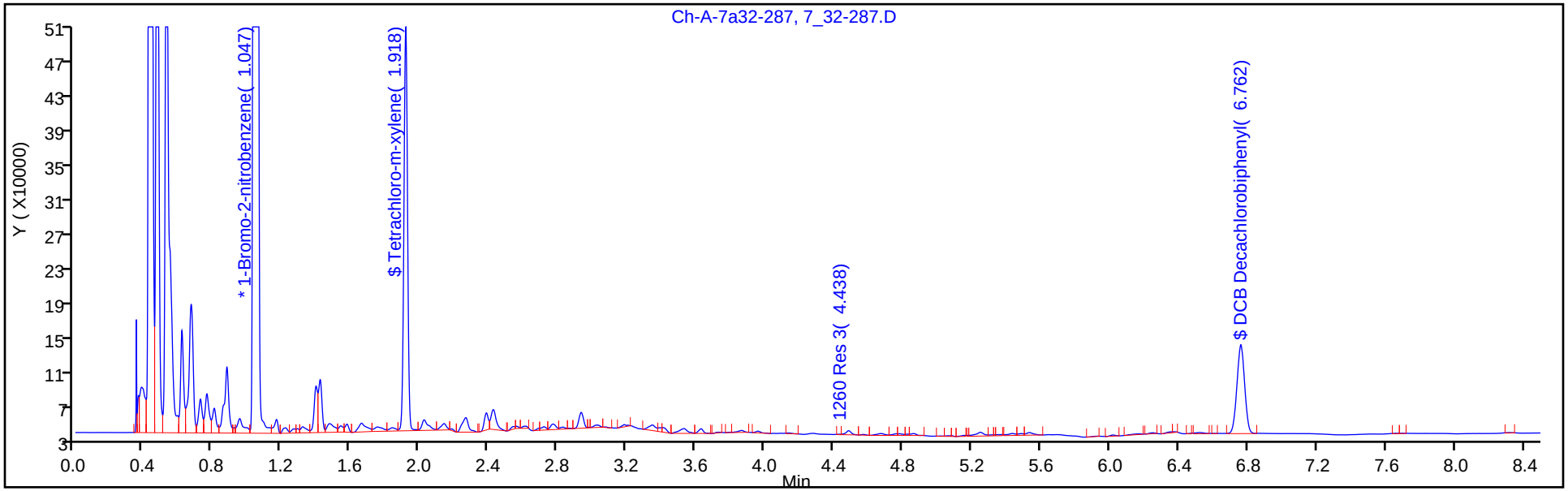
Report Date: 06-Dec-2018 10:08:36 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

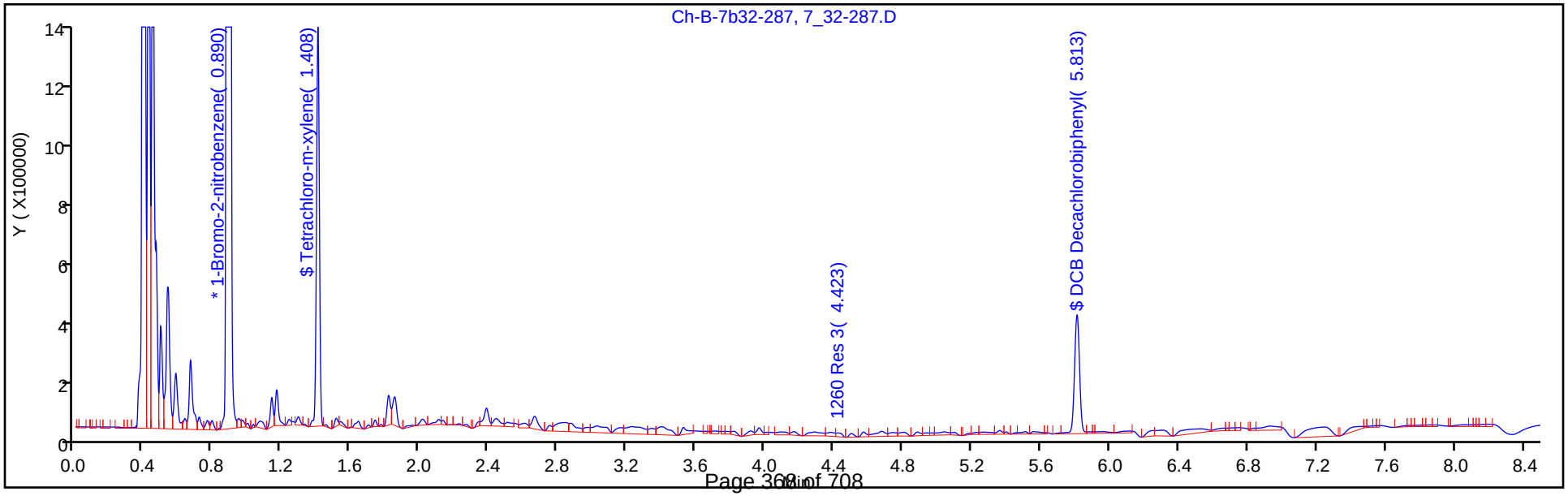
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-287.D

Injection Date:	05-Dec-2018 21:45:30	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-A-5-A	Lab Sample ID:	480-146076-5	Worklist Smp#:	21
Client ID:	MW-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-4 | Lab Sample ID: 480-146076-5

Matrix: Water | Lab File ID: 7_32-287.D

Analysis Method: 8082A | Date Collected: 11/29/2018 11:10

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 21:45

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	72		39-121
2051-24-3	DCB Decachlorobiphenyl	93		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-287.D
Lims ID: 480-146076-A-5-A
Client ID: MW-4
Sample Type: Client
Inject. Date: 05-Dec-2018 21:45:30 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 10:08:36 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 10:08:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.047	1.048	-0.001	13491239	0.5000	
2	0.890	0.892	-0.002	43220285	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	681173	0.0208	
2	1.408	1.408	0.000	1492101	0.0143	
					RPD = 36.82	
3 1260 Res 3						
1	4.438	4.460	-0.029	669	NC	
2	4.423	4.418	-0.003	28983	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.762	6.764	-0.002	318599	0.0155	
2	5.813	5.813	-0.001	778440	0.0186	
					RPD = 18.60	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

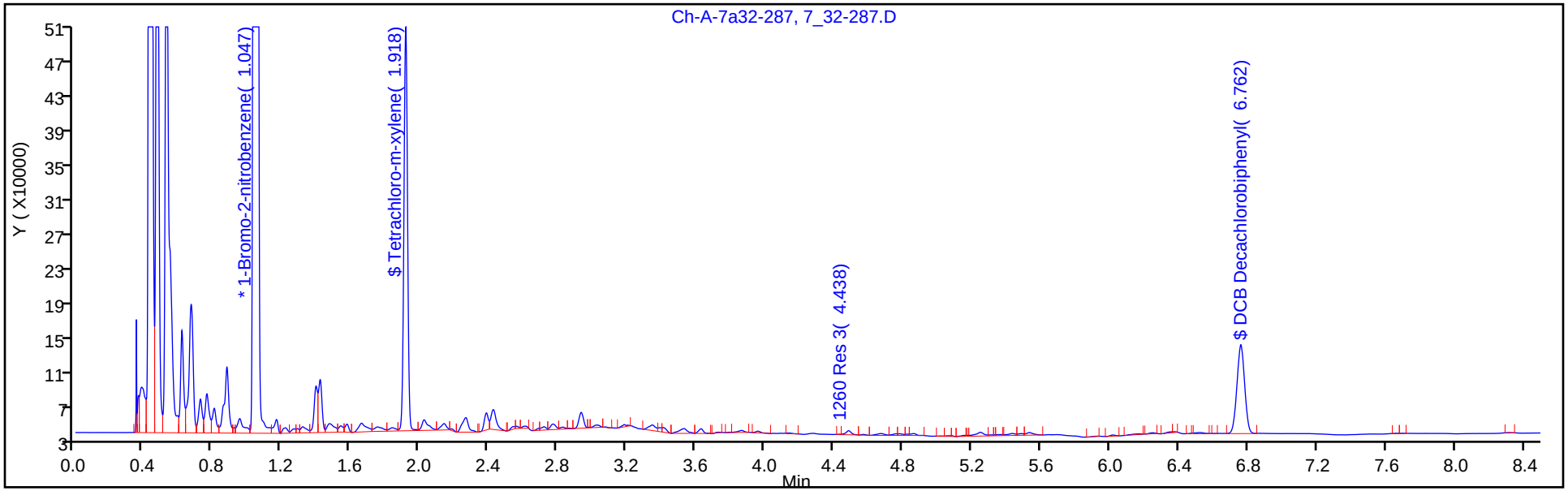
Report Date: 06-Dec-2018 10:08:36 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

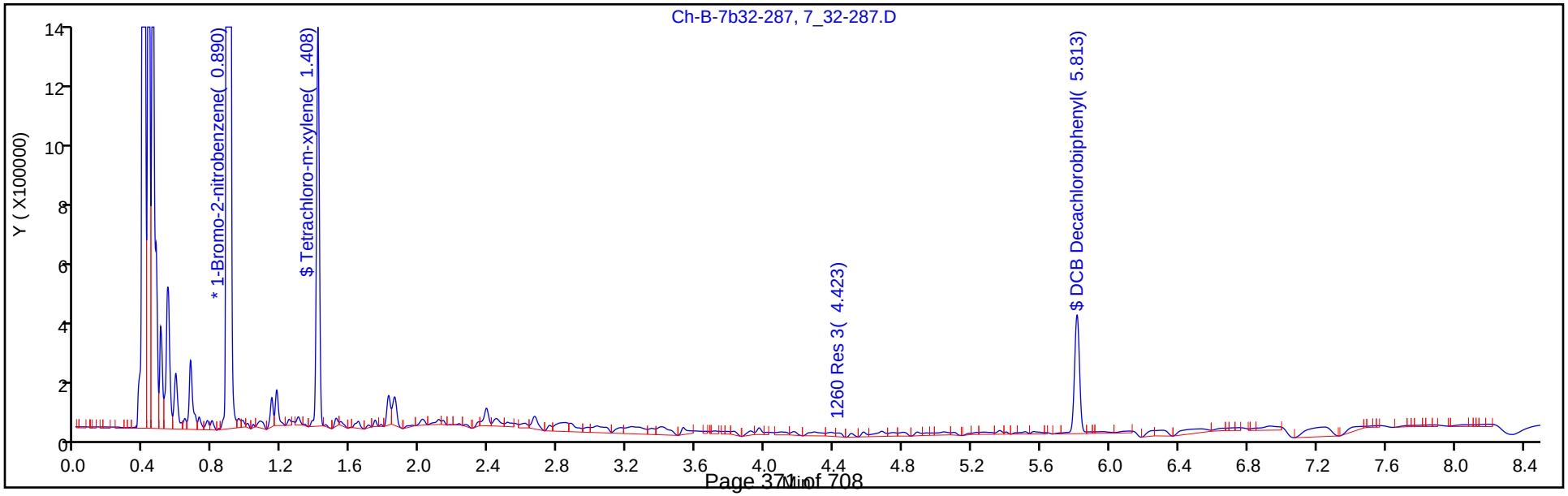
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-287.D

Injection Date:	05-Dec-2018 21:45:30	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-A-5-A	Lab Sample ID:	480-146076-5	Worklist Smp#:	21
Client ID:	MW-4				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-6 | Lab Sample ID: 480-146076-6

Matrix: Water | Lab File ID: 7_32-288.D

Analysis Method: 8082A | Date Collected: 11/29/2018 14:15

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 22:01

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	84		39-121
2051-24-3	DCB Decachlorobiphenyl	58		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-288.D
Lims ID: 480-146076-A-6-A
Client ID: MW-6
Sample Type: Client
Inject. Date: 05-Dec-2018 22:01:25 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 10:53:19 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0301

First Level Reviewer: thongjanw Date: 06-Dec-2018 10:41:56

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.047	1.048	-0.001	13508548	0.5000	
2	0.890	0.892	-0.002	42941672	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	553763	0.0168	
2	1.408	1.408	0.000	1285018	0.0123	
					RPD = 30.68	
$ 15 DCB Decachlorobiphenyl						
1	6.762	6.764	-0.002	238835	0.0115	
2	5.813	5.813	-0.001	566082	0.0134	
					RPD = 15.07	

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

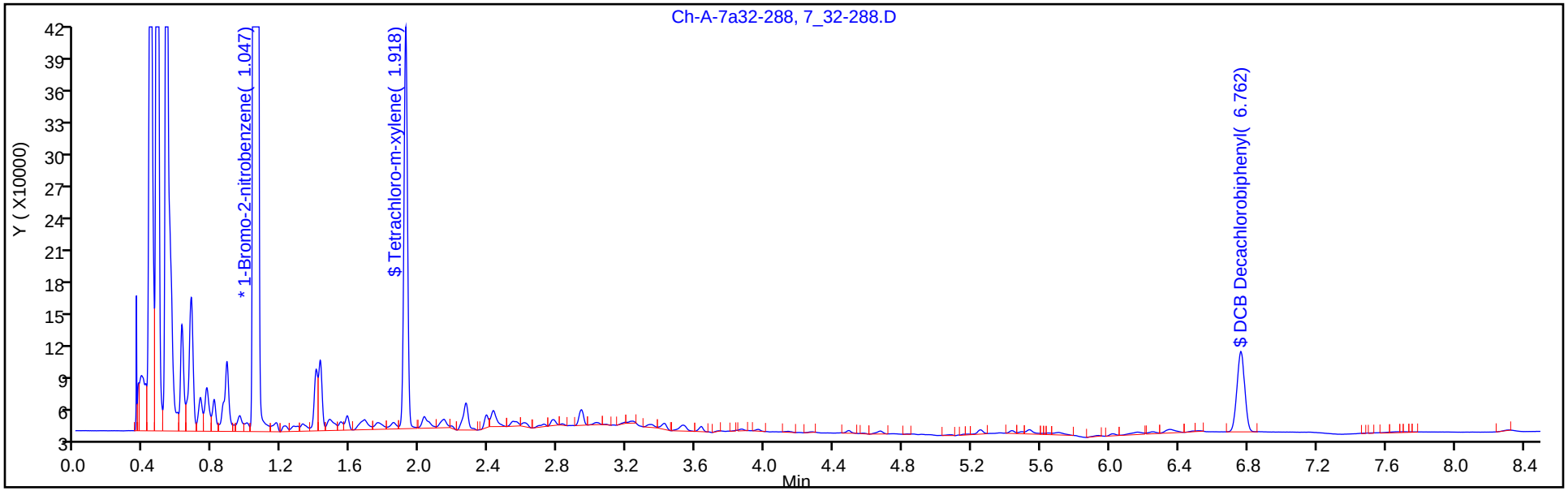
Report Date: 06-Dec-2018 11:01:43 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

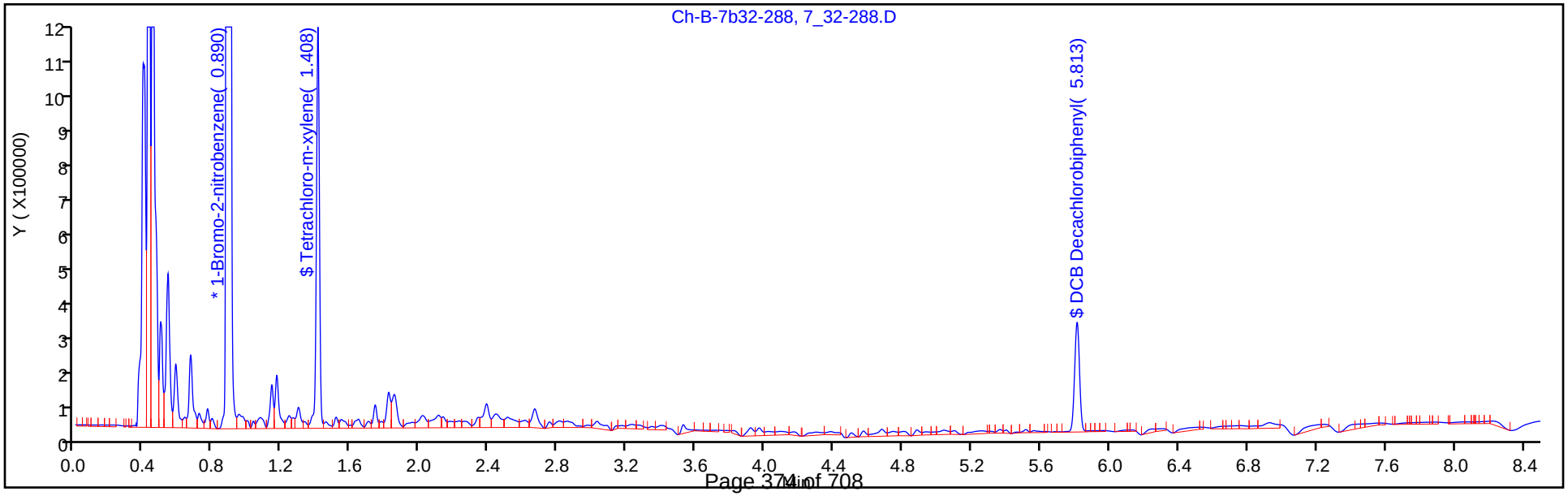
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-288.D

Injection Date:	05-Dec-2018 22:01:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-A-6-A	Lab Sample ID:	480-146076-6	Worklist Smp#:	22
Client ID:	MW-6				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-6 | Lab Sample ID: 480-146076-6

Matrix: Water | Lab File ID: 7_32-288.D

Analysis Method: 8082A | Date Collected: 11/29/2018 14:15

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 22:01

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	62		39-121
2051-24-3	DCB Decachlorobiphenyl	67		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-288.D
Lims ID: 480-146076-A-6-A
Client ID: MW-6
Sample Type: Client
Inject. Date: 05-Dec-2018 22:01:25 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 10:53:19 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0301

First Level Reviewer: thongjanw Date: 06-Dec-2018 10:41:56

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.047	1.048	-0.001	13508548	0.5000	
2	0.890	0.892	-0.002	42941672	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	553763	0.0168	
2	1.408	1.408	0.000	1285018	0.0123	
					RPD = 30.68	
$ 15 DCB Decachlorobiphenyl						
1	6.762	6.764	-0.002	238835	0.0115	
2	5.813	5.813	-0.001	566082	0.0134	
					RPD = 15.07	

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

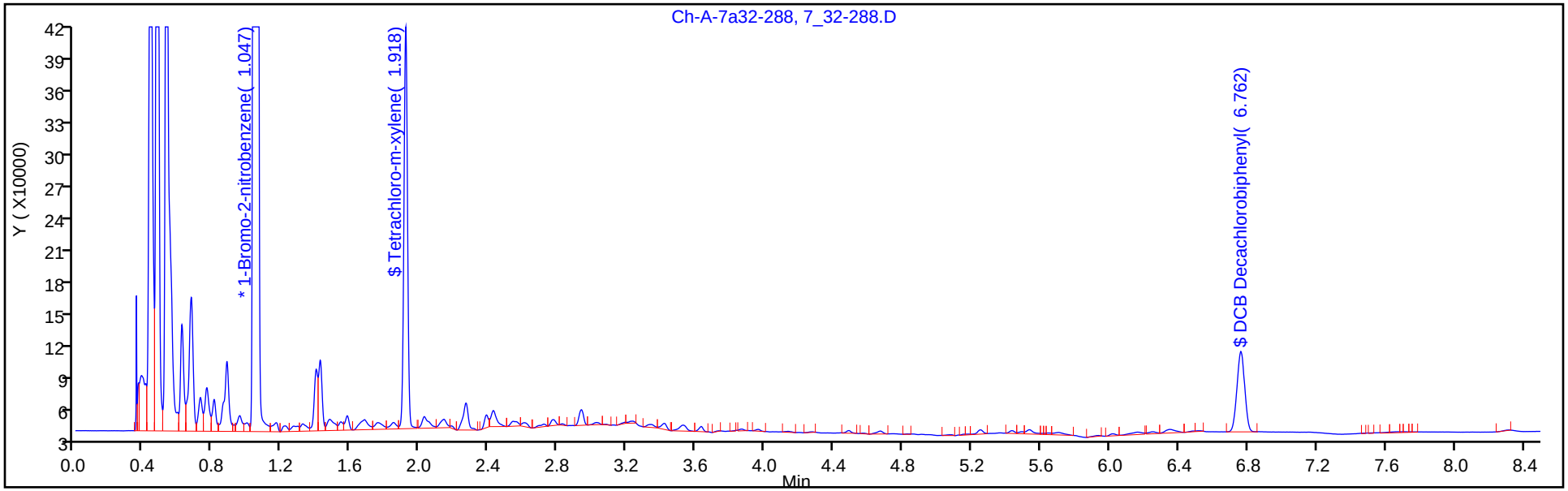
Report Date: 06-Dec-2018 11:01:44 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

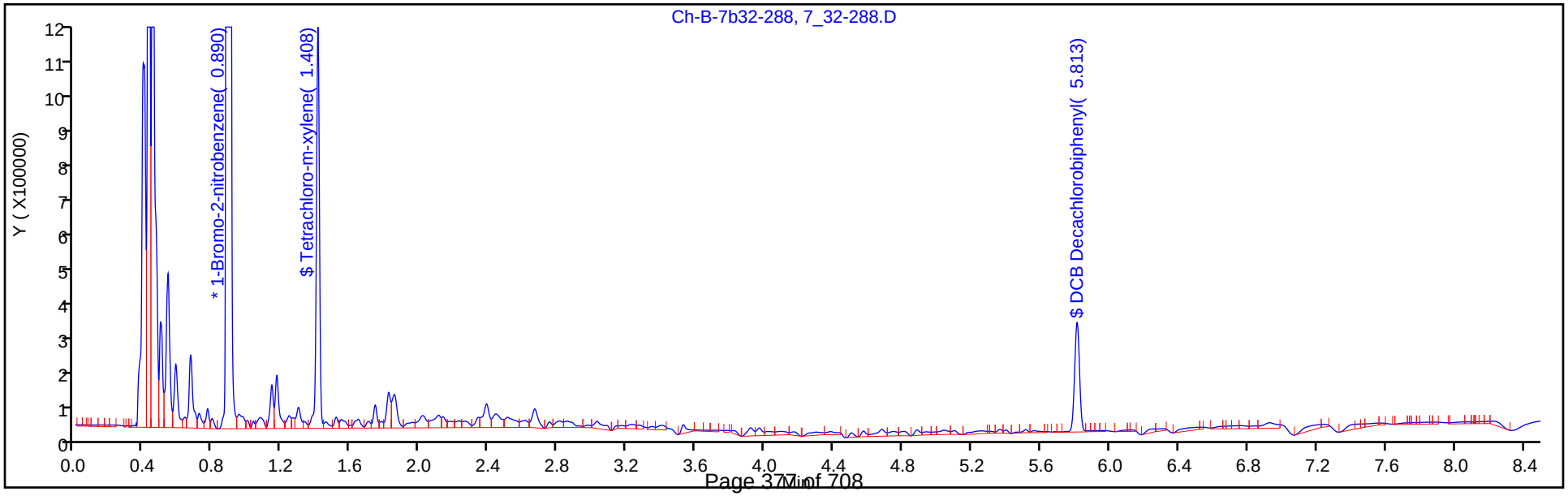
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-288.D

Injection Date:	05-Dec-2018 22:01:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-A-6-A	Lab Sample ID:	480-146076-6	Worklist Smp#:	22
Client ID:	MW-6				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 | Lab Sample ID: 480-146076-7

Matrix: Water | Lab File ID: 7_32-281.D

Analysis Method: 8082A | Date Collected: 11/29/2018 09:40

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 20:09

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	88		39-121
2051-24-3	DCB Decachlorobiphenyl	65		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-281.D
Lims ID: 480-146076-B-7-B
Client ID: MW-8
Sample Type: Client
Inject. Date: 05-Dec-2018 20:09:53 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:26:17 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:26:17

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.048	1.048	0.000	13843123	0.5000	
2	0.891	0.892	-0.001	44285261	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	595106	0.0176	
2	1.408	1.408	0.000	1270249	0.0118	
					RPD = 39.68	
4 1260 Res 2						
1	4.197	4.189	0.007	601	NC	
2	4.160	4.125	0.035	28963	NC	
3 1260 Res 3						
1	4.486	4.467	0.019	7811	NC	
2	4.421	4.427	-0.006	36012	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.763	6.764	-0.001	274772	0.0129	
2	5.810	5.813	-0.003	663737	0.0153	
					RPD = 16.91	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

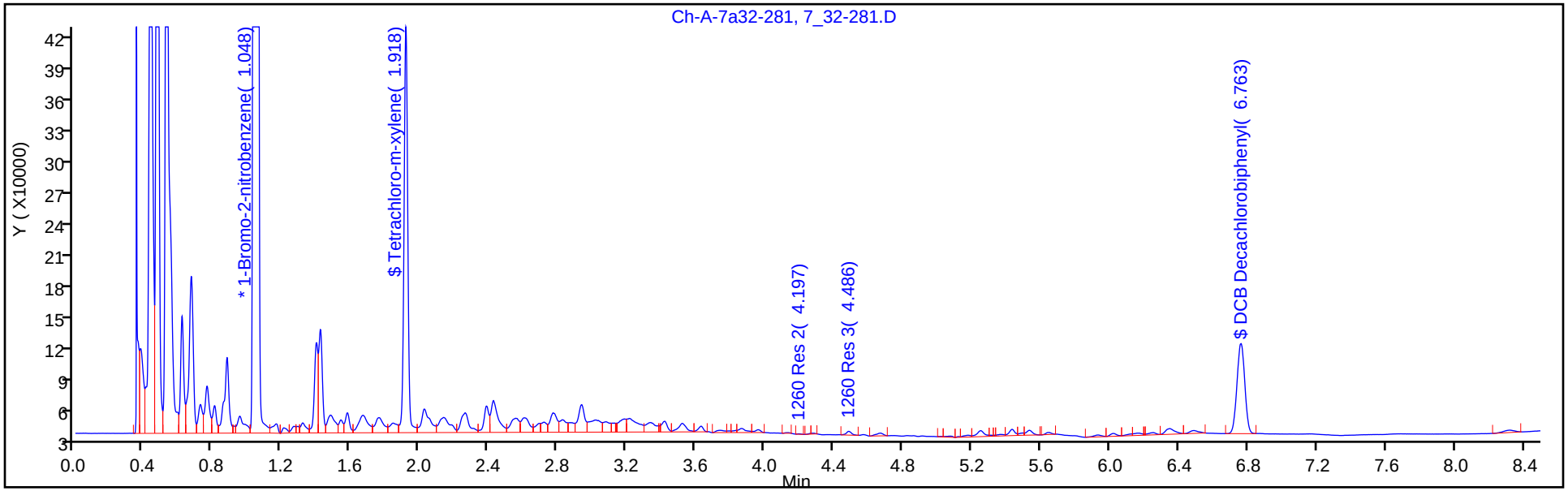
Report Date: 06-Dec-2018 09:26:18 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

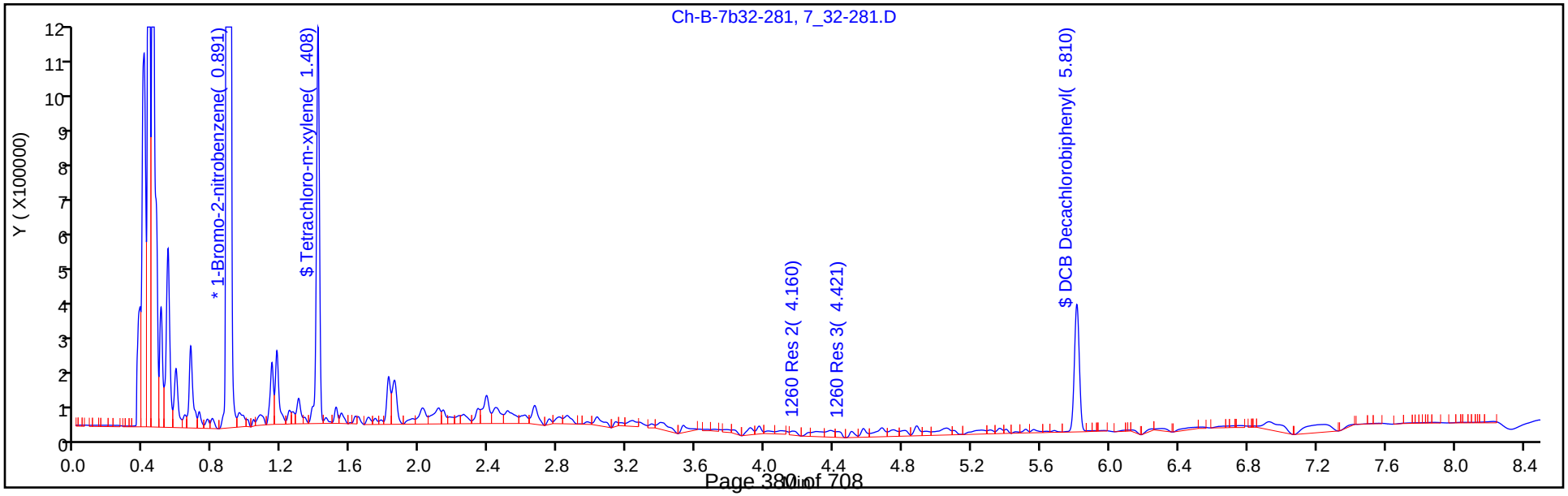
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-281.D

Injection Date:	05-Dec-2018 20:09:53	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-B-7-B	Lab Sample ID:	480-146076-7	Worklist Smp#:	15
Client ID:	MW-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 | Lab Sample ID: 480-146076-7

Matrix: Water | Lab File ID: 7_32-281.D

Analysis Method: 8082A | Date Collected: 11/29/2018 09:40

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 20:09

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	59		39-121
2051-24-3	DCB Decachlorobiphenyl	77		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-281.D
Lims ID: 480-146076-B-7-B
Client ID: MW-8
Sample Type: Client
Inject. Date: 05-Dec-2018 20:09:53 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:26:17 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:26:17

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.048	1.048	0.000	13843123	0.5000	
2	0.891	0.892	-0.001	44285261	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	595106	0.0176	
2	1.408	1.408	0.000	1270249	0.0118	
					RPD = 39.68	
4 1260 Res 2						
1	4.197	4.189	0.007	601	NC	
2	4.160	4.125	0.035	28963	NC	
3 1260 Res 3						
1	4.486	4.467	0.019	7811	NC	
2	4.421	4.427	-0.006	36012	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.763	6.764	-0.001	274772	0.0129	
2	5.810	5.813	-0.003	663737	0.0153	
					RPD = 16.91	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

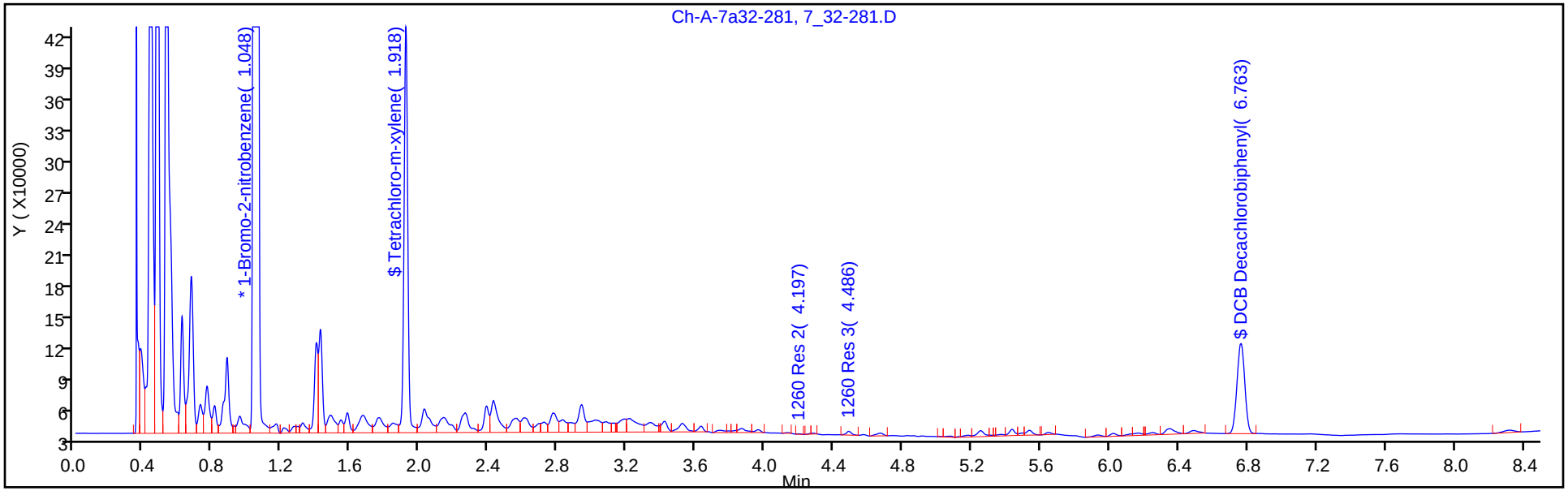
Report Date: 06-Dec-2018 09:26:18 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

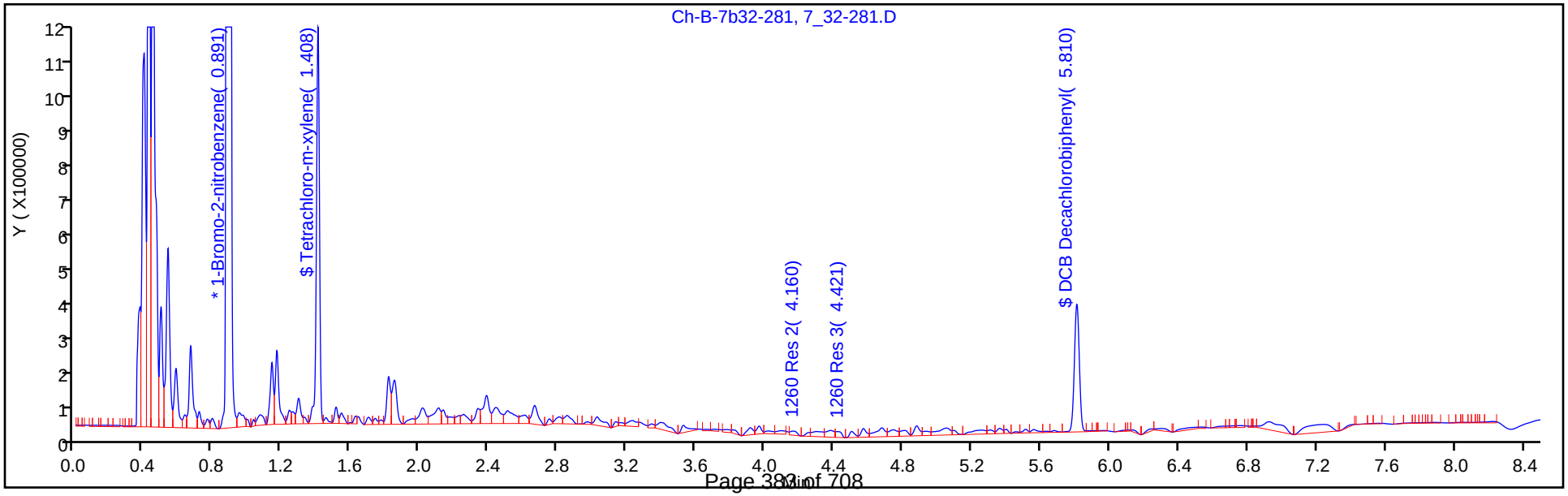
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-281.D

Injection Date:	05-Dec-2018 20:09:53	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-B-7-B	Lab Sample ID:	480-146076-7	Worklist Smp#:	15
Client ID:	MW-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: DUP-112918 | Lab Sample ID: 480-146076-8

Matrix: Water | Lab File ID: 7_32-289.D

Analysis Method: 8082A | Date Collected: 11/29/2018 00:00

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 22:17

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	83		39-121
2051-24-3	DCB Decachlorobiphenyl	64		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-289.D
Lims ID: 480-146076-B-8-A
Client ID: DUP-112918
Sample Type: Client
Inject. Date: 05-Dec-2018 22:17:23 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 10:43:12 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 10:43:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.049	1.048	0.001	15627242	0.5000	
2	0.893	0.892	0.000	50370559	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	632861	0.0166	
2	1.409	1.408	0.001	1439146	0.0118	
					RPD = 34.19	
2 1260 Res 1						
1	4.081	4.092	-0.008	942	NC	
2	4.097	4.102	-0.002	21034	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.764	6.764	0.000	307285	0.0128	
2	5.812	5.813	-0.001	731388	0.0148	
					RPD = 14.52	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

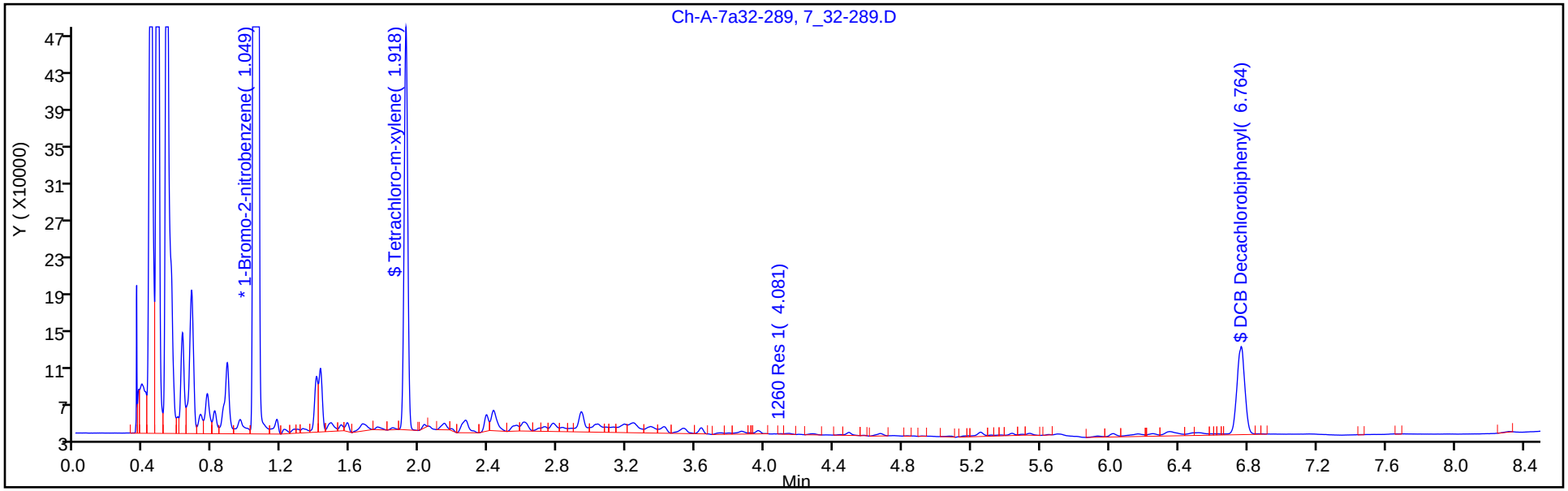
Report Date: 06-Dec-2018 10:43:12 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

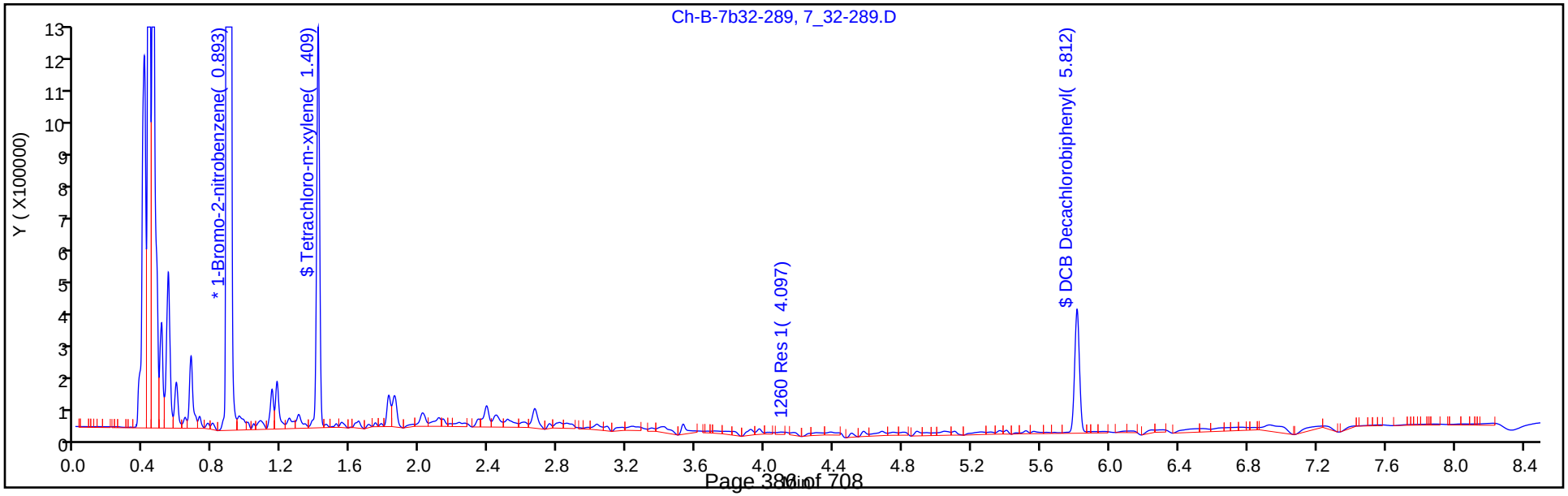
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-289.D

Injection Date:	05-Dec-2018 22:17:23	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-B-8-A	Lab Sample ID:	480-146076-8	Worklist Smp#:	23
Client ID:	DUP-112918				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: DUP-112918 | Lab Sample ID: 480-146076-8

Matrix: Water | Lab File ID: 7_32-289.D

Analysis Method: 8082A | Date Collected: 11/29/2018 00:00

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 22:17

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	59		39-121
2051-24-3	DCB Decachlorobiphenyl	74		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-289.D
Lims ID: 480-146076-B-8-A
Client ID: DUP-112918
Sample Type: Client
Inject. Date: 05-Dec-2018 22:17:23 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 10:43:12 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 10:43:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.049	1.048	0.001	15627242	0.5000	
2	0.893	0.892	0.000	50370559	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.918	1.918	0.000	632861	0.0166	
2	1.409	1.408	0.001	1439146	0.0118	
					RPD = 34.19	
2 1260 Res 1						
1	4.081	4.092	-0.008	942	NC	
2	4.097	4.102	-0.002	21034	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.764	6.764	0.000	307285	0.0128	
2	5.812	5.813	-0.001	731388	0.0148	
					RPD = 14.52	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

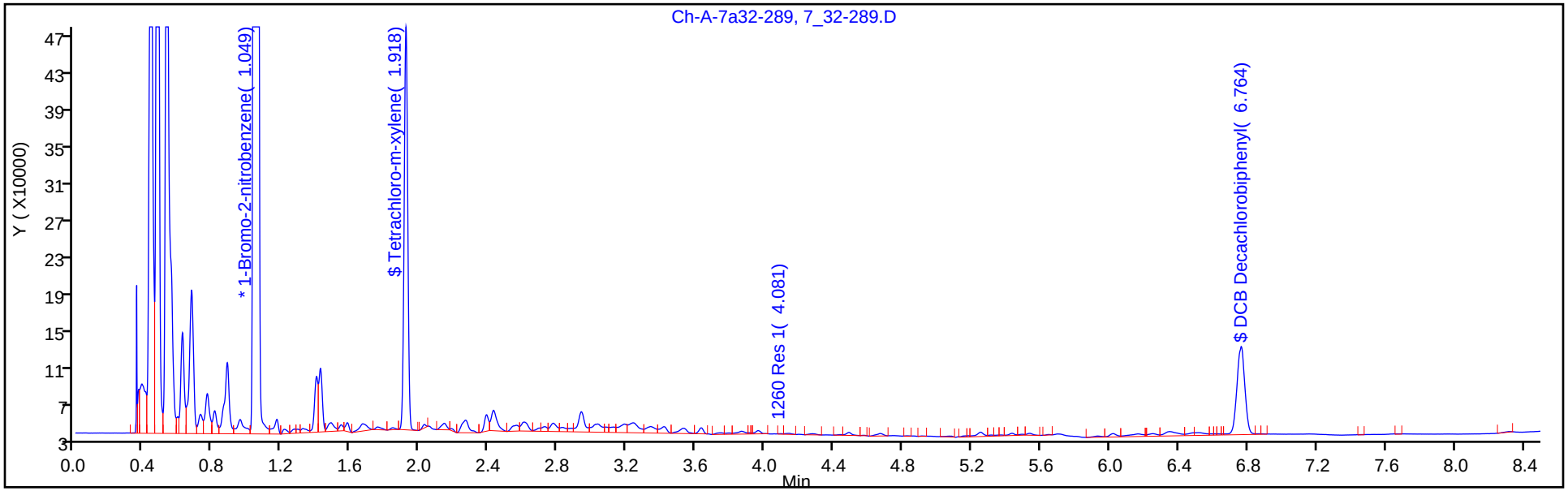
Report Date: 06-Dec-2018 10:43:13 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

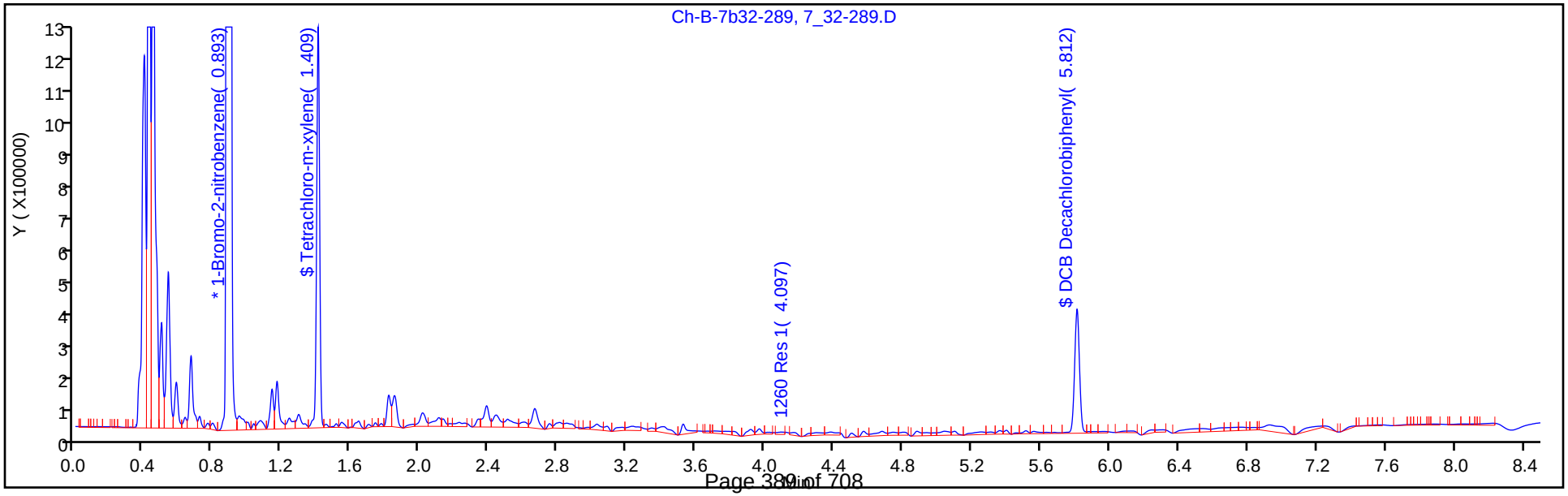
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-289.D

Injection Date:	05-Dec-2018 22:17:23	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-B-8-A	Lab Sample ID:	480-146076-8	Worklist Smp#:	23
Client ID:	DUP-112918				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 14:26 Calibration End Date: 05/07/2018 16:02 Calibration ID: 33759

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/10	7_13-132.D
Level 2	IC 480-413004/9	7_13-131.D
Level 3	IC 480-413004/8	7_13-130.D
Level 4	IC 480-413004/7	7_13-129.D
Level 5	ICIS 480-413004/6	7_13-128.D
Level 6	IC 480-413004/5	7_13-127.D
Level 7	IC 480-413004/4	7_13-126.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.1202 0.0978	0.1199 0.0955	0.1082	0.1051	0.0979	Ave		0.1064				9.7		20.0			
PCB-1016 Peak 2	0.0727 0.0363	0.0485 0.0351	0.0443	0.0402	0.0370	Lin1	0.0008	0.0351							1.0000		0.9900
PCB-1016 Peak 3	0.0319 0.0254	0.0320 0.0250	0.0295	0.0279	0.0255	Ave		0.0282				10.8		20.0			
PCB-1016 Peak 4	0.0540 0.0189	0.0303 0.0180	0.0305	0.0245	0.0227	Lin1	0.0008	0.0184							0.9920		0.9900
PCB-1016 Peak 5	0.0451 0.0314	0.0406 0.0310	0.0384	0.0349	0.0325	Ave		0.0363				14.7		20.0			
PCB-1260 Peak 1	0.0791 0.0578	0.0723 0.0571	0.0674	0.0635	0.0551	Ave		0.0646				13.7		20.0			
PCB-1260 Peak 2	0.0976 0.0622	0.0797 0.0622	0.0748	0.0687	0.0617	Ave		0.0724				18.1		20.0			
PCB-1260 Peak 3	0.1583 0.0800	0.1136 0.0799	0.1026	0.0910	0.0841	Lin1	0.0017	0.0793							1.0000		0.9900
PCB-1260 Peak 4	0.0627 0.0356	0.0482 0.0363	0.0460	0.0411	0.0338	Lin1	0.0006	0.0355							0.9980		0.9900
PCB-1260 Peak 5	0.1531 0.0845	0.1147 0.0854	0.1044	0.0947	0.0826	Lin1	0.0015	0.0838							0.9990		0.9900
Tetrachloro-m-xylene	+++++ 1.5194	2.1530 1.4981	1.7464	1.7736	1.7334	Ave		1.7373				13.6		20.0			
DCB Decachlorobiphenyl	+++++ 1.0067	1.4308 0.9653	1.2963	1.2034	0.9994	Ave		1.1503				16.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 14:26 Calibration End Date: 05/07/2018 16:02 Calibration ID: 33759

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/10	7_13-132.D
Level 2	IC 480-413004/9	7_13-131.D
Level 3	IC 480-413004/8	7_13-130.D
Level 4	IC 480-413004/7	7_13-129.D
Level 5	ICIS 480-413004/6	7_13-128.D
Level 6	IC 480-413004/5	7_13-127.D
Level 7	IC 480-413004/4	7_13-126.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			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
PCB-1016 Peak 1	BNB	Ave	52040 2231730	133662 4218893	236540	460618	1200146	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	31463 828283	54040 1551137	96762	176476	453786	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Ave	13798 578603	35670 1103414	64525	122500	312652	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	23385 430344	33758 793904	66582	107206	278385	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Ave	19545 715417	45226 1368984	83941	152859	397842	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Ave	34229 1319545	80572 2522961	147372	278527	675655	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Ave	42242 1419127	88830 2749484	163364	301196	756158	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	68532 1824575	126549 3531943	224126	398950	1030741	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	27125 811967	53687 1606093	100513	180251	414190	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	66288 1927547	127813 3774789	228224	415319	1011699	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Ave	+++++ 866563	59984 1654877	95402	194414	531035	+++++ 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Ave	+++++ 574135	39862 1066331	70817	131909	306172	+++++ 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-126.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 07-May-2018 14:26:43 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:34 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 06:59:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.062	0.000	11046430	0.5000	0.5000	
2	0.910	0.911	-0.001	23143426	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.944	1.943	0.002	1654877	0.0500	0.0431	
2	1.439	1.438	0.001	3124346	0.0500	0.0422	
						RPD = 2.17	
9 PCB-1016							
1	2.870	2.868	0.002	4218893	2.00	1.80	
1	2.953	2.952	0.001	1551137	2.00	1.98	
1	3.015	3.014	0.001	1103414	2.00	1.77	
1	3.135	3.133	0.002	793904	2.00	1.91	
1	3.410	3.408	0.002	1368984	2.00	1.71	
		Average of Peak Amounts =				1.83	
2	2.378	2.378	0.000	6669053	2.00	1.65	
2	2.481	2.480	0.001	2950807	2.00	1.60	
2	2.568	2.567	0.001	1844707	2.00	1.96	
2	2.834	2.833	0.001	3463273	2.00	1.62	
2	2.932	2.931	0.001	2660524	2.00	1.97	
		Average of Peak Amounts =				1.76	
						RPD = 4.13	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.320	4.320	0.000	2522961	2.00	1.77	
1	4.503	4.502	0.000	2749484	2.00	1.72	
1	4.729	4.730	-0.001	3531943	2.00	1.99	
1	5.048	5.048	0.000	1606093	2.00	2.03	
1	5.255	5.253	0.002	3774789	2.00	2.02	
		Average of Peak Amounts =				1.91	
2	3.755	3.754	0.001	4303623	2.00	1.73	
2	4.168	4.168	0.000	4581366	2.00	1.72	
2	4.469	0.000	4.469	3218917	2.00	1.71	
2	4.617	0.000	4.617	6495523	2.00	1.74	
2	4.935	4.936	-0.001	4388220	2.00	1.73	
		Average of Peak Amounts =				1.73	
						RPD = 9.97	
$ 15 DCB Decachlorobiphenyl							
1	6.822	6.823	-0.001	1066331	0.0500	0.0420	
2	5.867	5.865	0.002	1551774	0.0500	0.0428	
						RPD = 1.90	

Reagents:

1660sur/is2.0_00008 Amount Added: 1.00 Units: mL

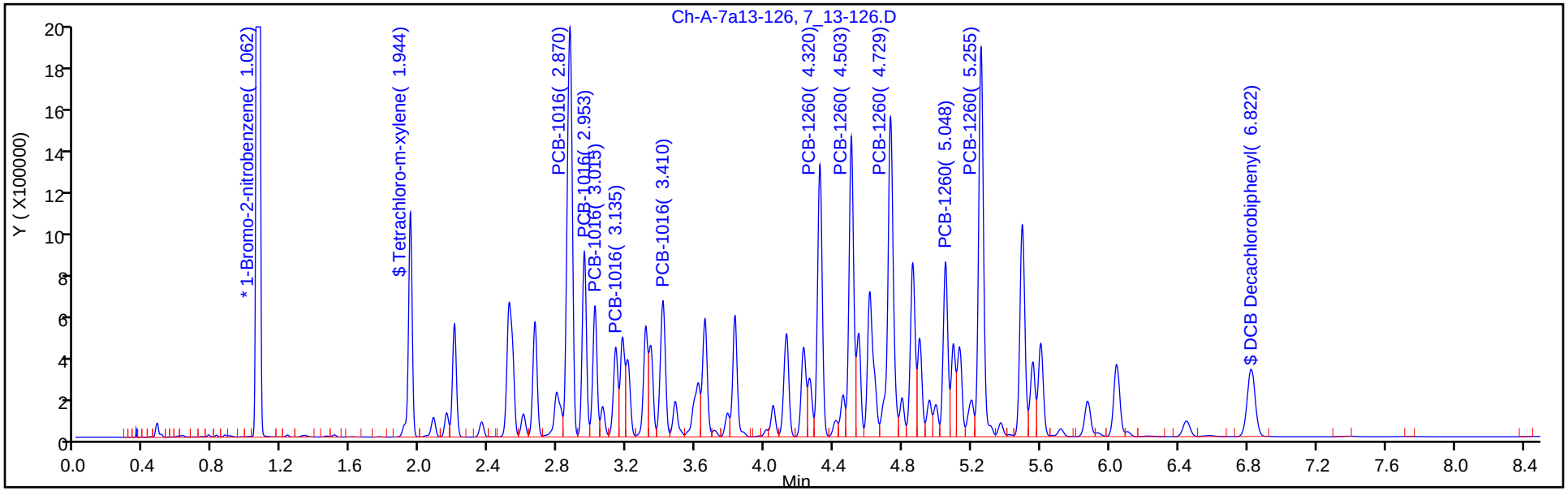
Report Date: 08-May-2018 12:38:35 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

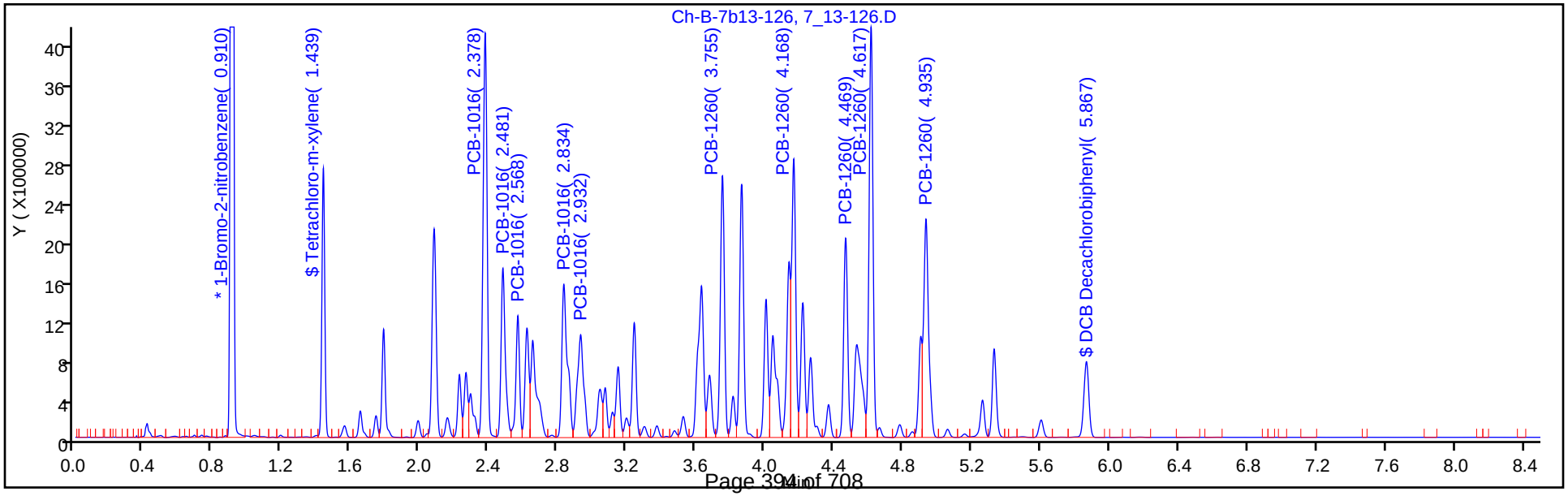
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-126.D

Injection Date:	07-May-2018 14:26:43	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-127.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 07-May-2018 14:42:47 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:37 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.062	0.000	11406332	0.5000	0.5000	
2	0.910	0.911	-0.001	24242554	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.943	1.943	0.001	866563	0.0250	0.0219	
2	1.438	1.438	0.000	1647923	0.0250	0.0212	
						RPD = 2.88	
9 PCB-1016							
1	2.868	2.868	0.000	2231730	1.00	0.9196	
1	2.953	2.952	0.000	828283	1.00	1.01	
1	3.014	3.014	0.000	578603	1.00	0.9003	
1	3.134	3.133	0.001	430344	1.00	0.9830	
1	3.409	3.408	0.001	715417	1.00	0.8649	
		Average of Peak Amounts =				0.9358	
2	2.378	2.378	0.000	3510386	1.00	0.8305	
2	2.481	2.480	0.001	1596243	1.00	0.8243	
2	2.567	2.567	0.000	976816	1.00	0.9776	
2	2.833	2.833	0.000	1853331	1.00	0.8258	
2	2.930	2.931	-0.001	1422254	1.00	1.00	
		Average of Peak Amounts =				0.8908	
						RPD = 4.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.318	4.320	-0.002	1319545	1.00	0.8950	
1	4.502	4.502	0.000	1419127	1.00	0.8591	
1	4.730	4.730	0.000	1824575	1.00	0.9862	
1	5.048	5.048	0.000	811967	1.00	0.9856	
1	5.254	5.253	0.001	1927547	1.00	0.99	
		Average of Peak Amounts =				0.9433	
2	3.754	3.754	0.000	2272580	1.00	0.8698	
2	4.168	4.168	0.000	2395356	1.00	0.8597	
2	4.468	0.000	4.468	1691423	1.00	0.8585	
2	4.617	0.000	4.617	3342013	1.00	0.8545	
2	4.934	4.936	-0.002	2279368	1.00	0.8564	
		Average of Peak Amounts =				0.8598	
						RPD = 9.26	
$ 15 DCB Decachlorobiphenyl							
1	6.820	6.823	-0.003	574135	0.0250	0.0219	
2	5.866	5.865	0.001	833271	0.0250	0.0219	
						RPD = 0.20	

Reagents:

1660sur/is1.0_00009 Amount Added: 1.00 Units: mL

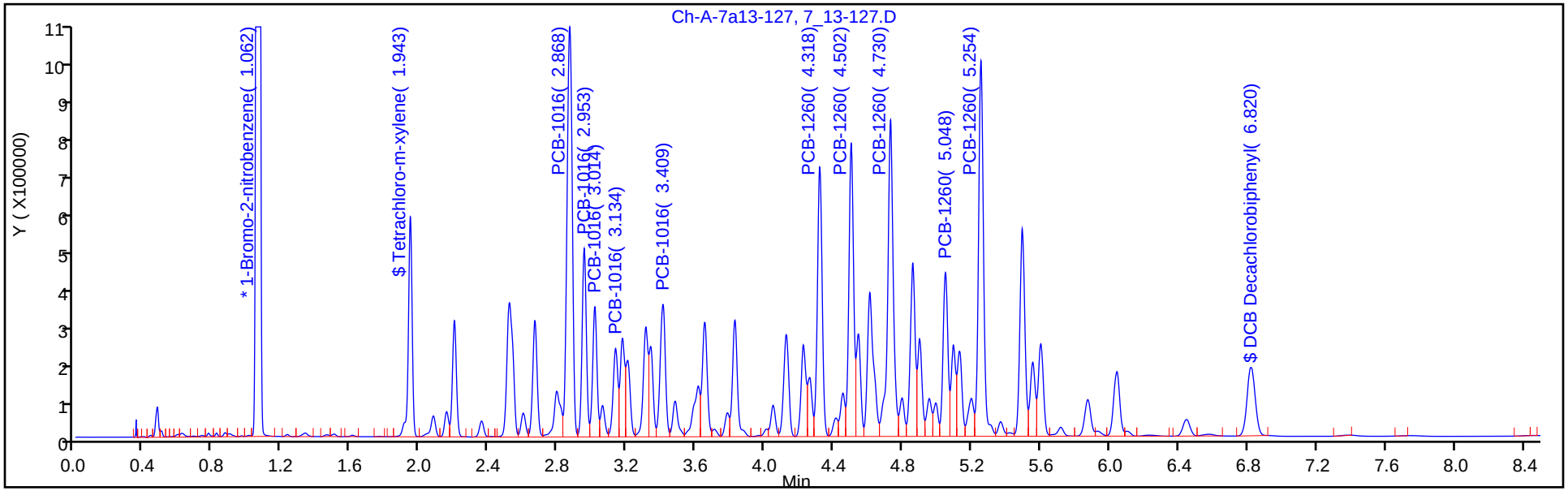
Report Date: 08-May-2018 12:38:38 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

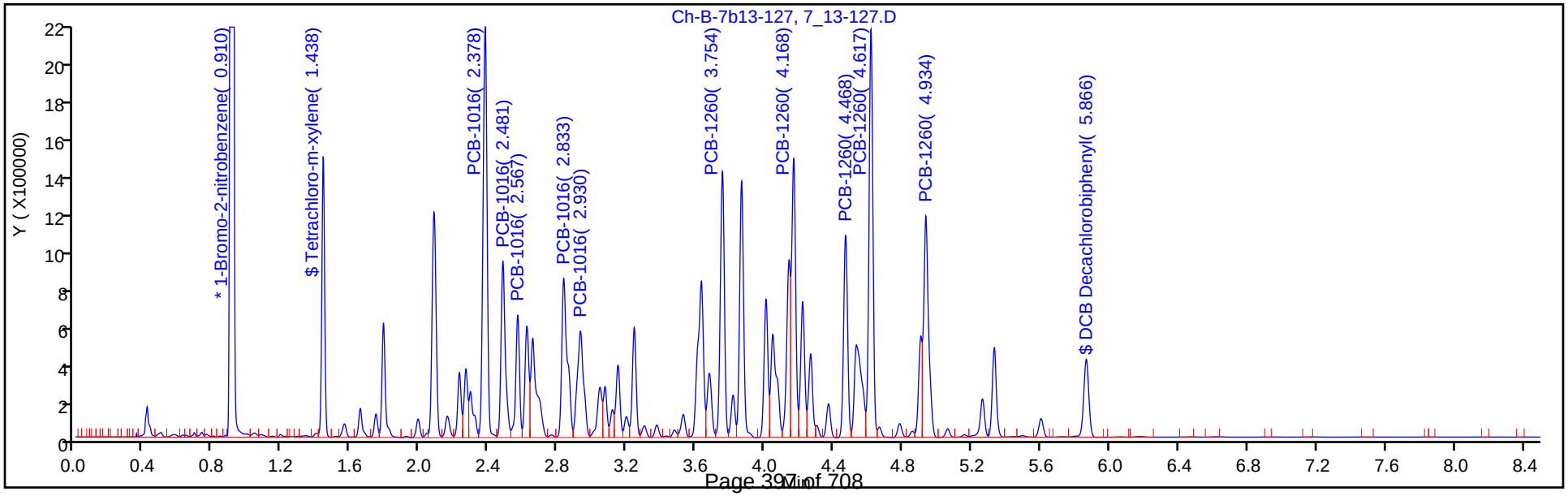
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-127.D

Injection Date:	07-May-2018 14:42:47	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-128.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 07-May-2018 14:58:36 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:41 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 07-May-2018 17:45:44

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.062	0.000	12254361	0.5000	0.5000	
2	0.911	0.911	0.000	26060757	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.943	1.943	0.000	531035	0.0125	0.0125	
2	1.438	1.438	0.000	1057969	0.0125	0.0127	
						RPD = 1.71	
9 PCB-1016							
1	2.868	2.868	0.000	1200146	0.5000	0.4603	
1	2.952	2.952	0.000	453786	0.5000	0.5050	
1	3.013	3.013	0.000	312652	0.5000	0.4528	
1	3.133	3.133	0.000	278385	0.5000	0.5748	
1	3.407	3.407	0.000	397842	0.5000	0.4477	
		Average of Peak Amounts =				0.4881	
2	2.377	2.377	0.000	2260490	0.5000	0.4975	
2	2.481	2.481	0.000	894341	0.5000	0.4296	
2	2.567	2.567	0.000	604915	0.5000	0.5520	
2	2.834	2.834	0.000	1028656	0.5000	0.4264	
2	2.932	2.932	0.000	791197	0.5000	0.5061	
		Average of Peak Amounts =				0.4823	
						RPD = 1.20	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.318	4.318	0.000	675655	0.5000	0.4266	
1	4.501	4.501	0.000	756158	0.5000	0.4261	
1	4.728	4.728	0.000	1030741	0.5000	0.5082	
1	5.048	5.048	0.000	414190	0.5000	0.4587	
1	5.253	5.253	0.000	1011699	0.5000	0.4747	
		Average of Peak Amounts =				0.4588	
2	3.754	3.754	0.000	1210811	0.5000	0.4311	
2	4.168	4.168	0.000	1324130	0.5000	0.4421	
2	4.469	4.469	0.000	888996	0.5000	0.4197	
2	4.615	4.615	0.000	1836973	0.5000	0.4369	
2	4.934	4.934	0.000	1215762	0.5000	0.4249	
		Average of Peak Amounts =				0.4309	
						RPD = 6.27	
$ 15 DCB Decachlorobiphenyl							
1	6.822	6.822	0.000	306172	0.0125	0.0109	
2	5.865	5.865	0.000	430067	0.0125	0.0105	
						RPD = 3.13	

Reagents:

1660sur/is0.5_00027 Amount Added: 1.00 Units: mL

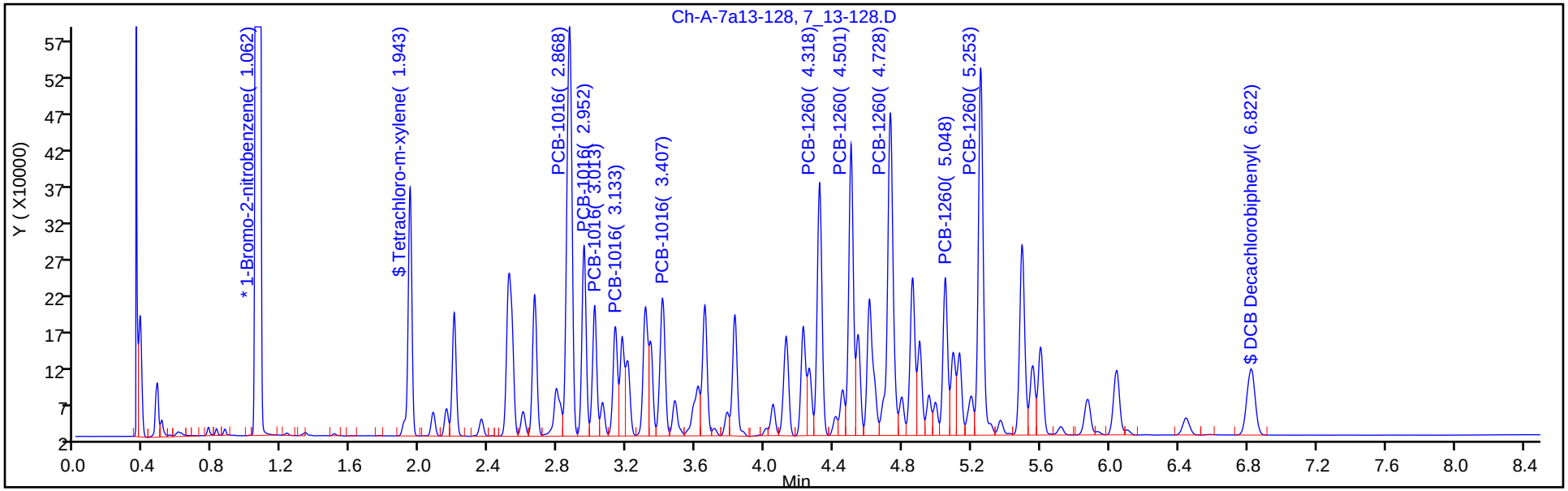
Report Date: 08-May-2018 12:38:42 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

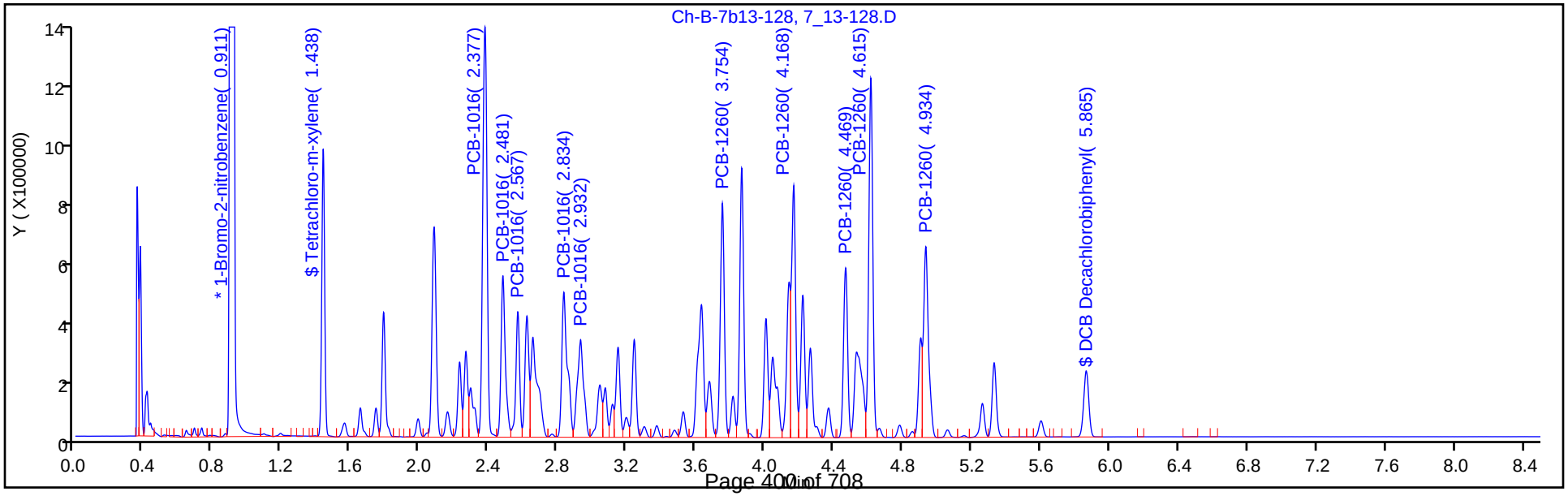
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-128.D

Injection Date:	07-May-2018 14:58:36	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-129.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-May-2018 15:14:35 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:44 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 07:01:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.061	1.062	-0.001	10961658	0.5000	0.5000	
2	0.910	0.911	-0.001	23217803	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.943	1.943	0.001	194414	0.005000	0.005104	
2	1.438	1.438	0.000	351836	0.005000	0.004736	
						RPD = 7.49	
9 PCB-1016							M
1	2.868	2.868	0.000	460618	0.2000	0.1975	
1	2.951	2.952	-0.001	176476	0.2000	0.2072	
1	3.014	3.013	0.001	122500	0.2000	0.1984	
1	3.133	3.133	0.001	107206	0.2000	0.2229	
1	3.409	3.407	0.002	152859	0.2000	0.1923	
		Average of Peak Amounts =				0.2036	
2	2.378	2.377	0.001	743275	0.2000	0.1836	M
2	2.480	2.481	-0.001	355758	0.2000	0.1918	M
2	2.567	2.567	0.000	217190	0.2000	0.2067	M
2	2.834	2.834	0.000	412909	0.2000	0.1921	M
2	2.931	2.932	-0.001	319881	0.2000	0.2194	M
		Average of Peak Amounts =				0.1987	
						RPD = 2.45	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.318	4.318	0.000	278527	0.2000	0.1966	
1	4.501	4.501	0.000	301196	0.2000	0.1897	
1	4.728	4.728	0.000	398950	0.2000	0.2074	
1	5.048	5.048	0.000	180251	0.2000	0.2141	
1	5.253	5.253	0.001	415319	0.2000	0.2081	
		Average of Peak Amounts =				0.2032	
2	3.754	3.754	0.000	493394	0.2000	0.1972	M
2	4.168	4.168	0.000	496524	0.2000	0.1861	M
2	4.470	4.469	0.001	368901	0.2000	0.1955	M
2	4.616	4.615	0.001	699084	0.2000	0.1866	M
2	4.935	4.934	0.001	495701	0.2000	0.1945	M
		Average of Peak Amounts =				0.1920	
						RPD = 5.69	
$ 15 DCB Decachlorobiphenyl							
1	6.820	6.822	-0.002	131909	0.005000	0.005231	
2	5.865	5.865	0.000	194454	0.005000	0.005342	
						RPD = 2.10	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00008 Amount Added: 1.00 Units: mL

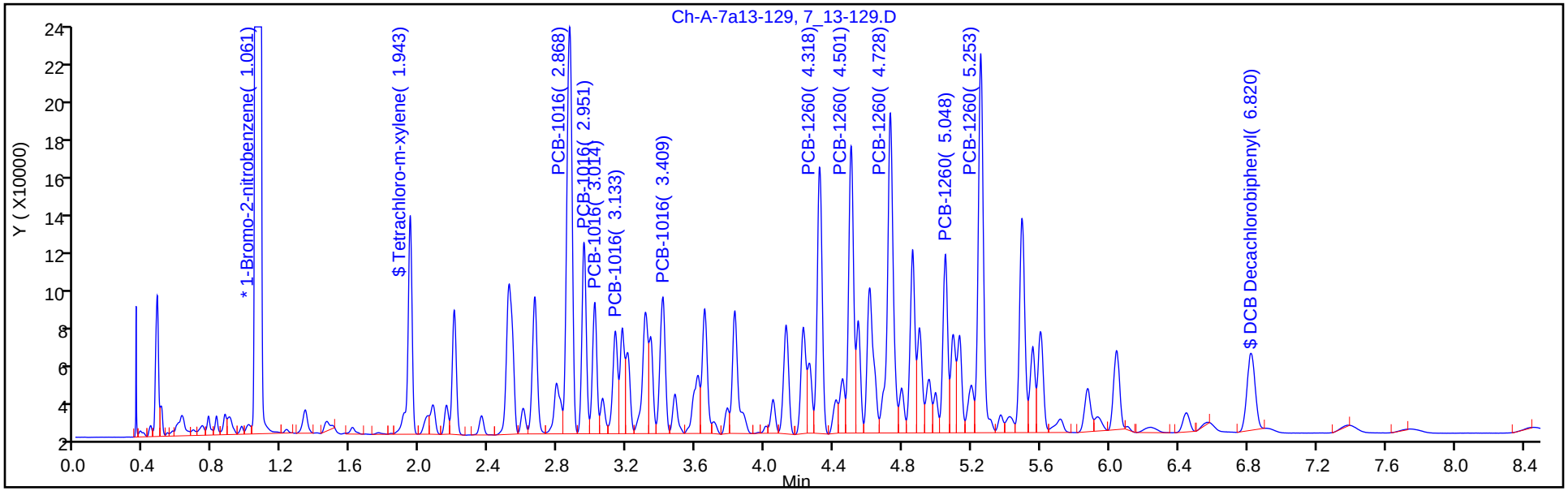
Report Date: 08-May-2018 12:38:45 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

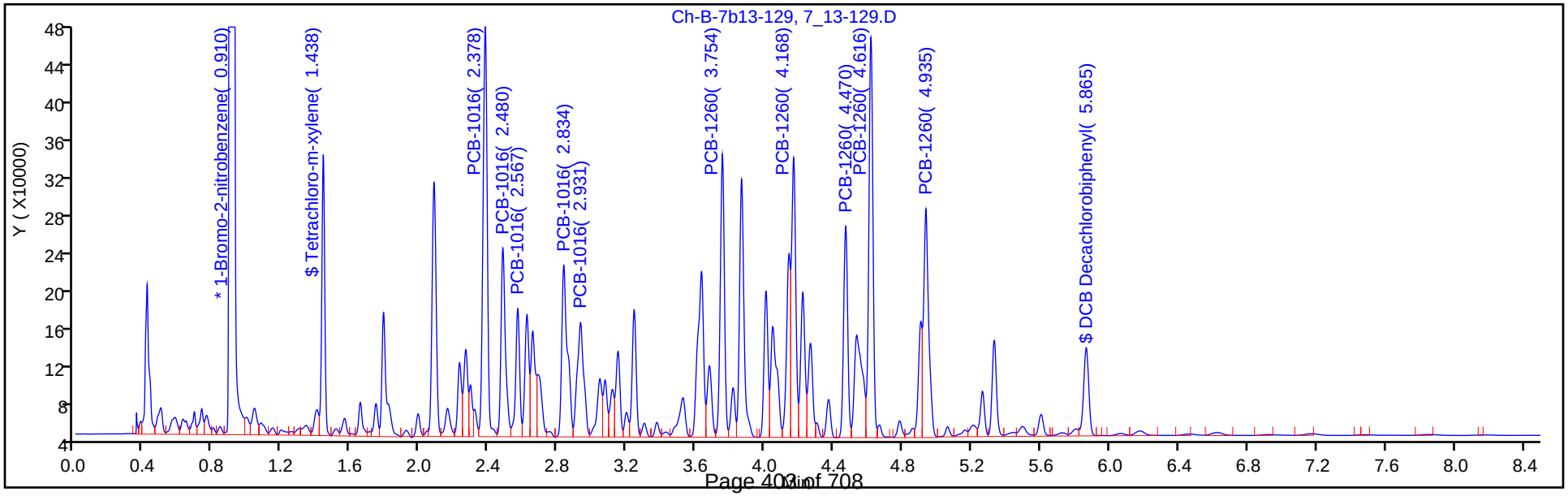
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-129.D

Injection Date:	07-May-2018 15:14:35	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-130.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-May-2018 15:30:25 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:47 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 07:01:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.062	0.000	10925722	0.5000	0.5000	
2	0.911	0.911	0.000	23108470	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.943	1.943	0.000	95402	0.002500	0.002513	M
2	1.439	1.438	0.001	182915	0.002500	0.002474	
						RPD = 1.57	
9 PCB-1016							M
1	2.868	2.868	0.000	236540	0.1000	0.1018	M
1	2.953	2.952	0.000	96762	0.1000	0.1041	M
1	3.013	3.013	-0.001	64525	0.1000	0.1048	M
1	3.133	3.133	0.001	66582	0.1000	0.1227	M
1	3.408	3.407	0.001	83941	0.1000	0.1059	M
		Average of Peak Amounts =				0.1079	
2	2.378	2.377	0.001	382606	0.1000	0.0950	
2	2.480	2.481	-0.001	191197	0.1000	0.1036	
2	2.567	2.567	0.000	121121	0.1000	0.1042	
2	2.834	2.834	0.000	221245	0.1000	0.1034	
2	2.931	2.932	-0.001	172825	0.1000	0.1105	
		Average of Peak Amounts =				0.1033	
						RPD = 4.29	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.318	4.318	0.000	147372	0.1000	0.1044	M
1	4.502	4.501	0.001	163364	0.1000	0.1032	M
1	4.728	4.728	0.000	224126	0.1000	0.1073	M
1	5.048	5.048	0.000	100513	0.1000	0.1120	M
1	5.254	5.253	0.002	228224	0.1000	0.1067	M
		Average of Peak Amounts =				0.1067	
2	3.755	3.754	0.001	259341	0.1000	0.1041	
2	4.168	4.168	0.000	261670	0.1000	0.0985	
2	4.469	4.469	0.000	196922	0.1000	0.1049	
2	4.616	4.615	0.001	372120	0.1000	0.0998	
2	4.935	4.934	0.001	262059	0.1000	0.1033	
		Average of Peak Amounts =				0.1021	
						RPD = 4.42	
$ 15 DCB Decachlorobiphenyl							
1	6.820	6.822	-0.002	70817	0.002500	0.002817	
2	5.865	5.865	0.000	107235	0.002500	0.002960	
						RPD = 4.93	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00009 Amount Added: 1.00 Units: mL

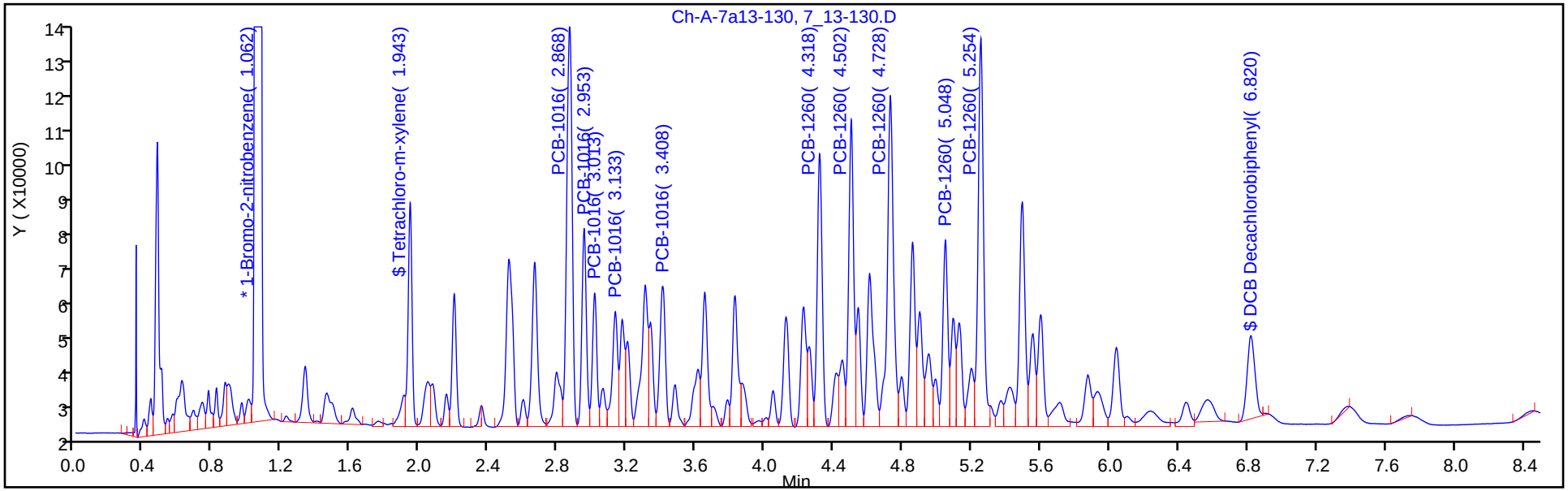
Report Date: 08-May-2018 12:38:48 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

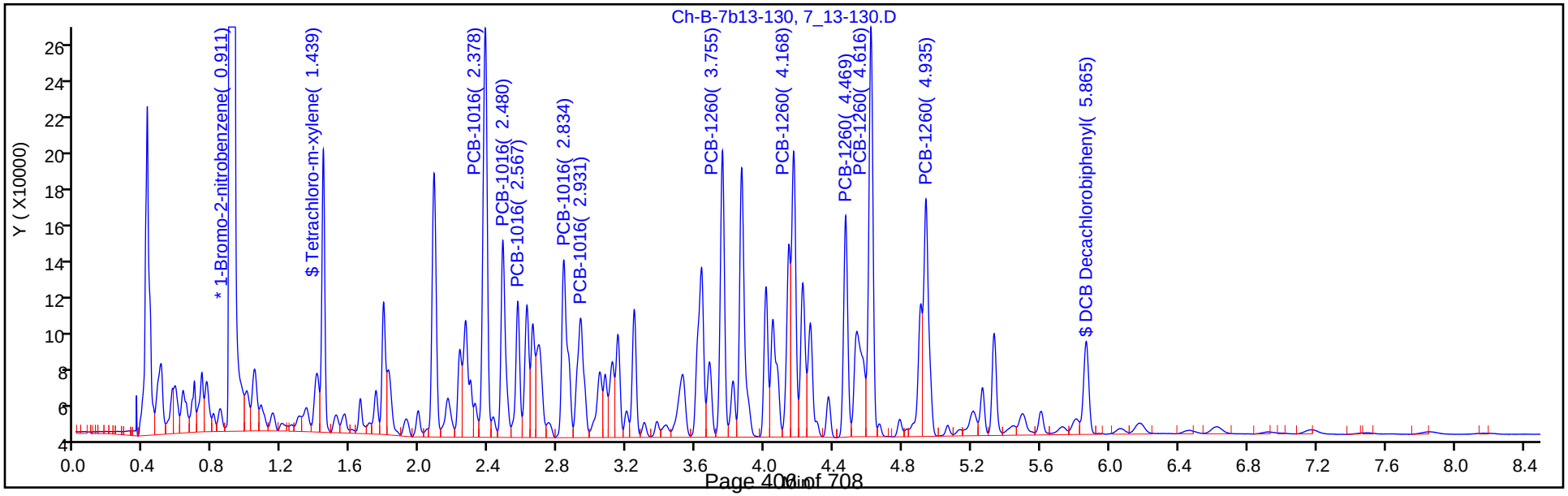
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-130.D

Injection Date:	07-May-2018 15:30:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

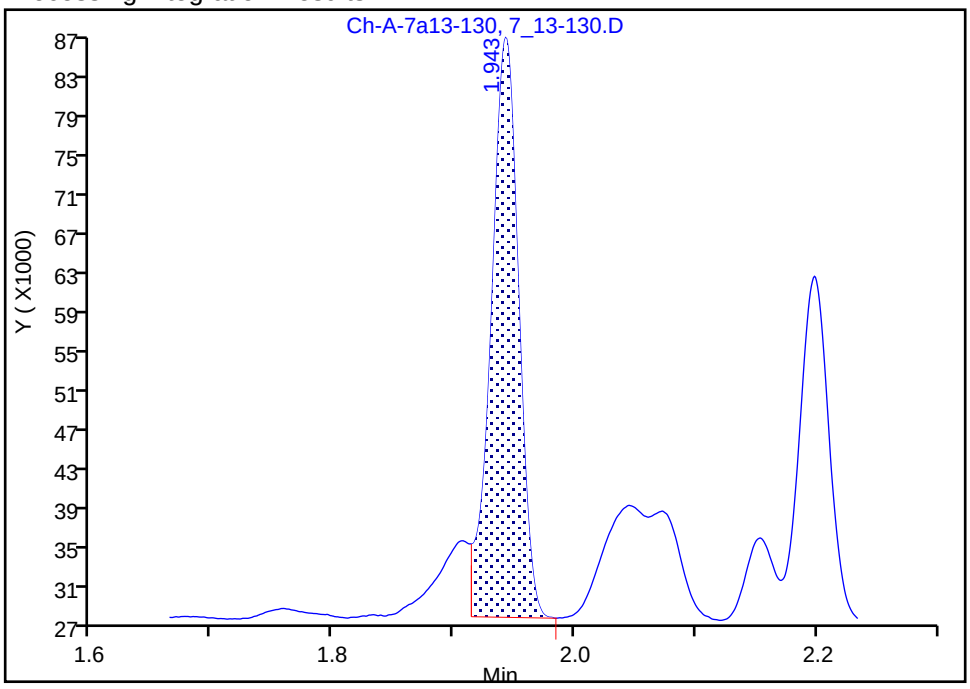
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-130.D
Injection Date: 07-May-2018 15:30:25 Instrument ID: HP6890-7
Lims ID: IC 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

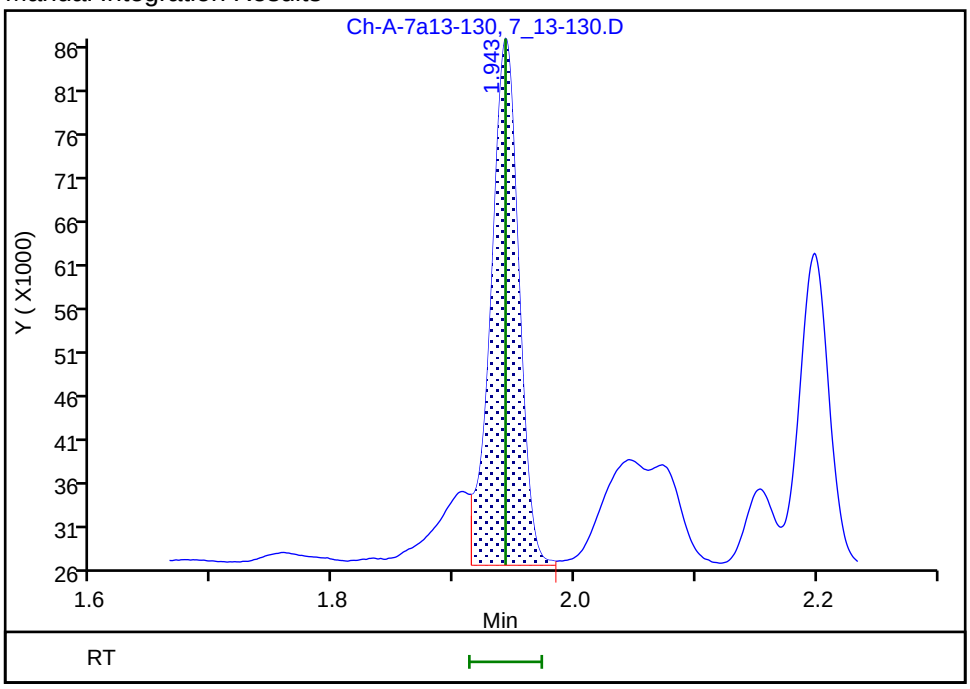
Processing Integration Results

RT: 1.94
Area: 93170
Amount: 0.002474
Amount Units: ng/uL



Manual Integration Results

RT: 1.94
Area: 95402
Amount: 0.002513
Amount Units: ng/uL



Reviewer: salversonj, 08-May-2018 07:01:08
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 08-May-2018 12:38:48 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-130.D

Injection Date: 07-May-2018 15:30:25 Instrument ID: HP6890-7

Lims ID: IC 3

Client ID:

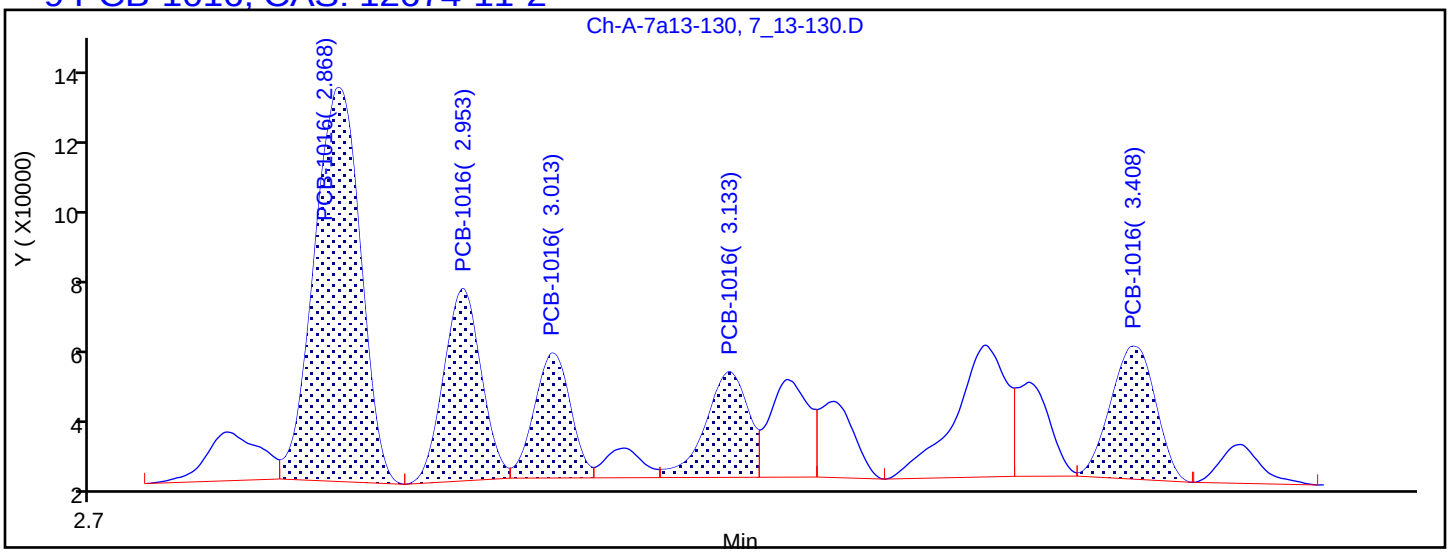
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

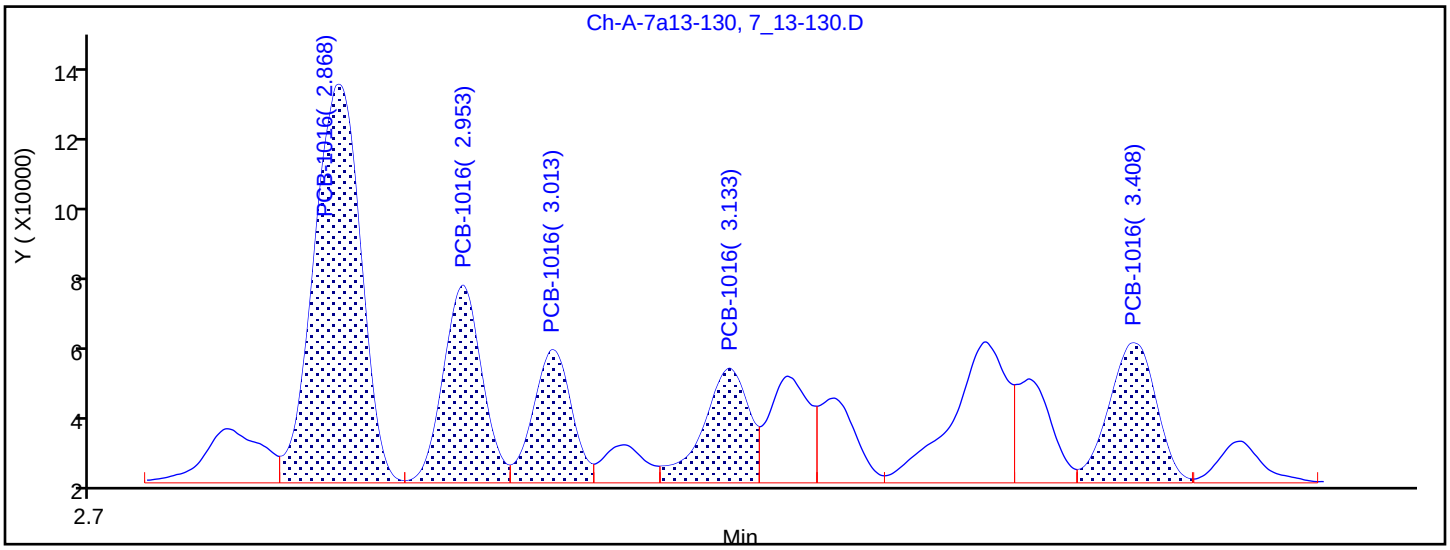
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.868	Response = 230392
2.953	Response = 91095
3.013	Response = 57090
3.133	Response = 57105
3.408	Response = 75209



Manual Integration Results

2.868	Response = 236540	M
2.953	Response = 96762	M
3.013	Response = 64525	M
3.133	Response = 66582	M
3.408	Response = 83941	M

Reviewer: salversonj, 08-May-2018 07:01:08

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 08-May-2018 12:38:48 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-130.D

Injection Date: 07-May-2018 15:30:25 Instrument ID: HP6890-7

Lims ID: IC 3

Client ID:

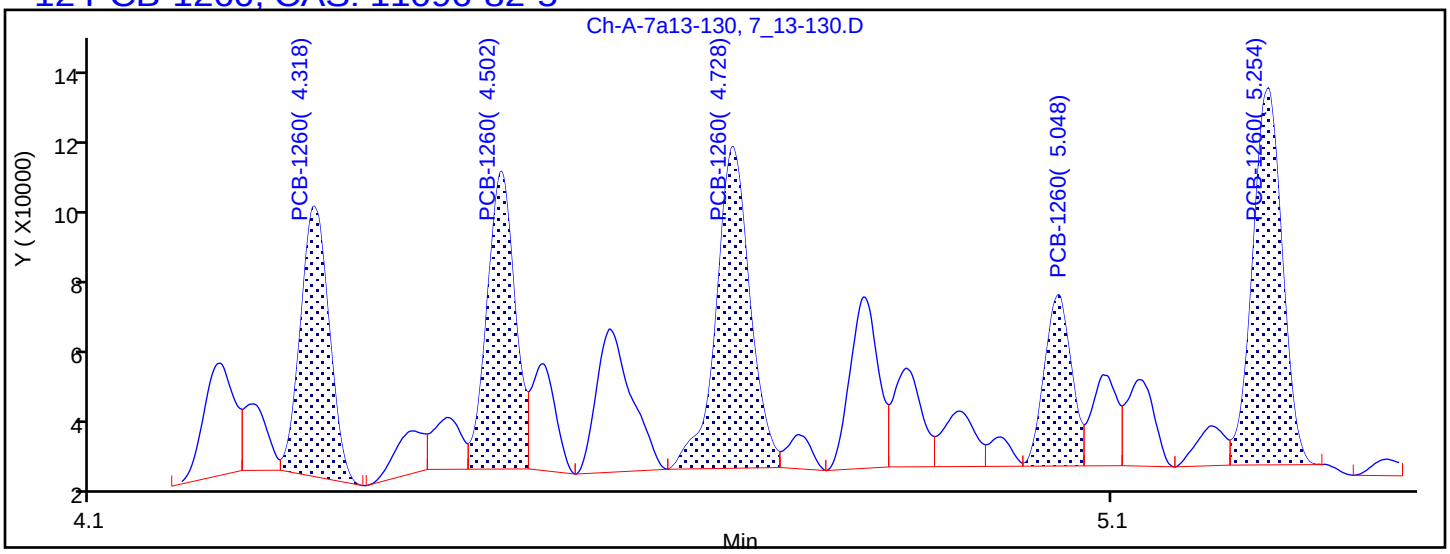
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

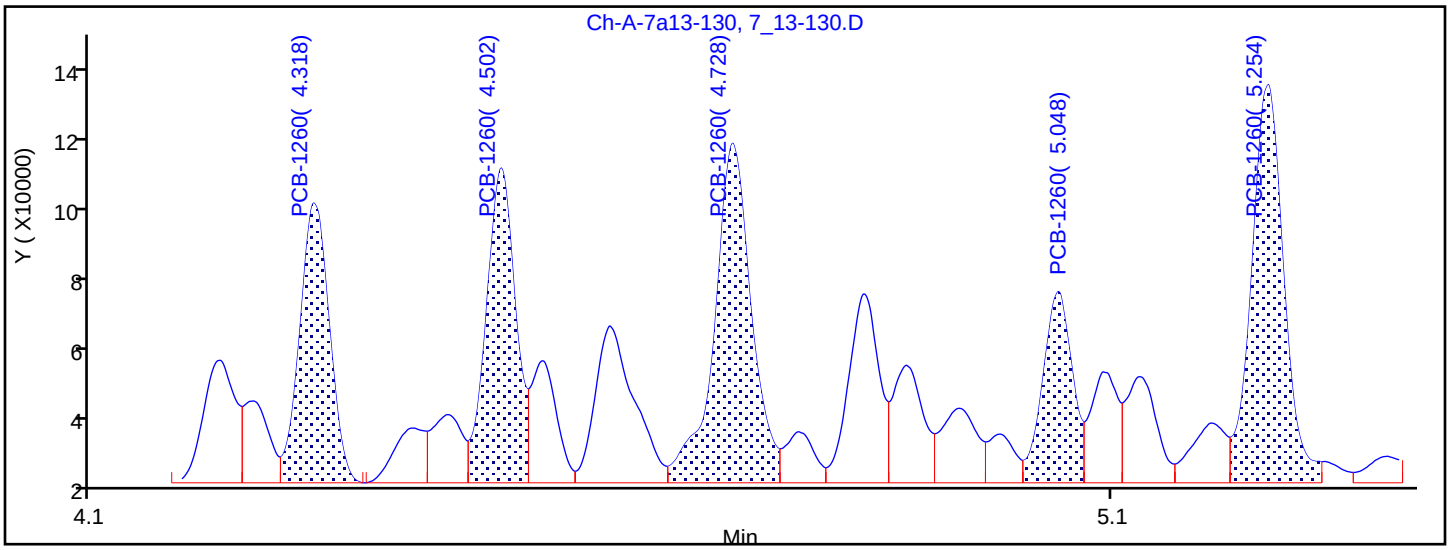
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.318	Response = 137682
4.502	Response = 148030
4.728	Response = 194489
5.048	Response = 82148
5.254	Response = 198983



Manual Integration Results

4.318	Response = 147372	M
4.502	Response = 163364	M
4.728	Response = 224126	M
5.048	Response = 100513	M
5.254	Response = 228224	M

Reviewer: salversonj, 08-May-2018 07:01:08

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-131.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-May-2018 15:46:26 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:51 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.062	0.000	11144095	0.5000	0.5000	
2	0.910	0.911	-0.001	24164930	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.943	1.943	0.001	59984	0.001250	0.001549	
2	1.438	1.438	0.000	130939	0.001250	0.001693	
						RPD = 8.90	
9 PCB-1016							
1	2.868	2.868	0.000	133662	0.0500	0.0564	
1	2.953	2.952	0.001	54040	0.0500	0.0471	
1	3.015	3.013	0.002	35670	0.0500	0.0568	
1	3.135	3.133	0.003	33758	0.0500	0.0393	
1	3.410	3.407	0.003	45226	0.0500	0.0560	
		Average of Peak Amounts =				0.0511	
2	2.377	2.377	0.000	281731	0.0500	0.0669	
2	2.481	2.481	0.000	116934	0.0500	0.0606	
2	2.568	2.567	0.001	78206	0.0500	0.0542	
2	2.834	2.834	0.000	133721	0.0500	0.0598	
2	2.932	2.932	0.000	104011	0.0500	0.0556	
		Average of Peak Amounts =				0.0594	
						RPD = 15.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.319	4.318	0.001	80572	0.0500	0.0559	
1	4.503	4.501	0.001	88830	0.0500	0.0550	
1	4.730	4.728	0.002	126549	0.0500	0.0496	
1	5.049	5.048	0.001	53687	0.0500	0.0503	
1	5.254	5.253	0.002	127813	0.0500	0.0505	
		Average of Peak Amounts =				0.0523	
2	3.754	3.754	0.000	149751	0.0500	0.0575	
2	4.168	4.168	0.000	162146	0.0500	0.0584	
2	4.470	4.469	0.001	111078	0.0500	0.0566	
2	4.616	4.615	0.001	215659	0.0500	0.0553	
2	4.934	4.934	0.000	147672	0.0500	0.0557	
		Average of Peak Amounts =				0.0567	
						RPD = 8.09	
$ 15 DCB Decachlorobiphenyl							
1	6.820	6.822	-0.002	39862	0.001250	0.001555	
2	5.865	5.865	0.000	55589	0.001250	0.001467	
						RPD = 5.80	

Reagents:

1660sur/is.05_00008 Amount Added: 1.00 Units: mL

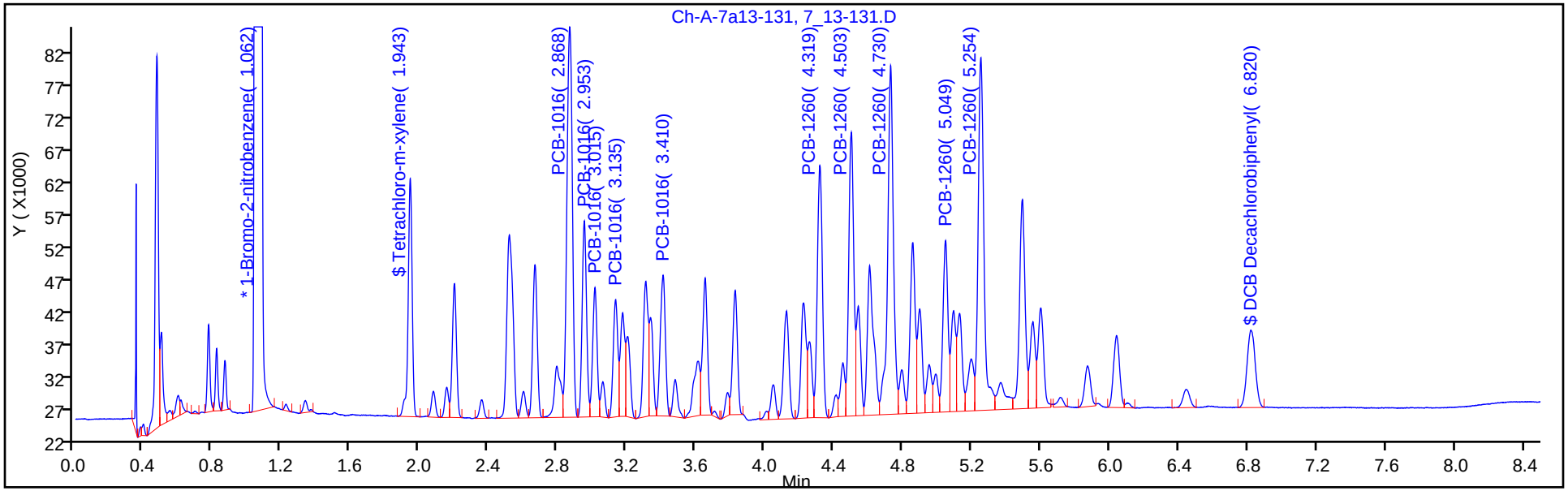
Report Date: 08-May-2018 12:38:52 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

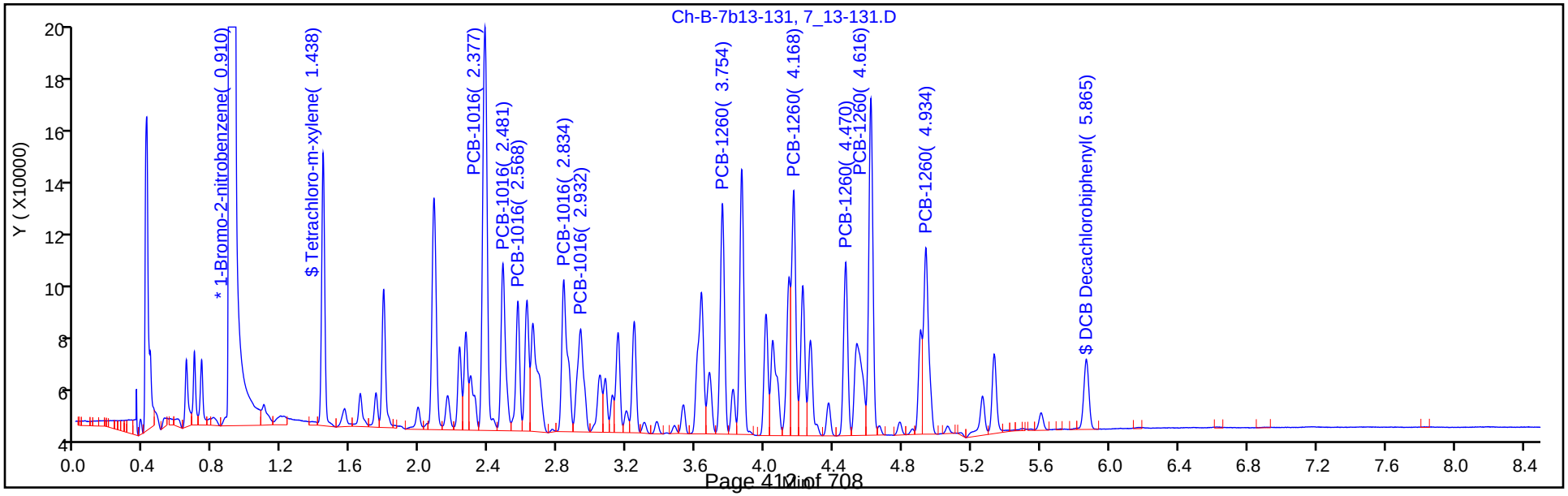
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-131.D

Injection Date:	07-May-2018 15:46:26	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-132.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-May-2018 16:02:16 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:54 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 07:00:50

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.063	1.063	0.000	10823908	0.5000	0.5000	
2	0.913	0.913	0.000	22989895	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.944	1.944	0.000	21897	0.000500	0.000582	
2	1.440	1.440	0.000	46644	0.000500	0.000634	
						RPD = 8.53	
9 PCB-1016							M
1	2.866	2.866	0.000	52040	0.0200	0.0226	
1	2.955	2.955	0.000	31463	0.0200	0.0194	
1	3.013	3.013	0.000	13798	0.0200	0.0226	
1	3.132	3.132	0.000	23385	0.0200	0.0157	M
1	3.410	3.410	0.000	19545	0.0200	0.0249	
		Average of Peak Amounts =				0.0211	
2	2.380	2.380	0.000	91679	0.0200	0.0229	
2	2.482	2.482	0.000	48180	0.0200	0.0262	
2	2.569	2.569	0.000	38736	0.0200	0.0156	
2	2.835	2.835	0.000	56324	0.0200	0.0265	
2	2.933	2.933	0.000	43472	0.0200	0.0139	
		Average of Peak Amounts =				0.0210	
						RPD = 0.23	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.319	4.319	0.000	34229	0.0200	0.0245	M
1	4.503	4.503	0.000	42242	0.0200	0.0269	M
1	4.730	4.730	0.000	68532	0.0200	0.0180	M
1	5.049	5.049	0.000	27125	0.0200	0.0177	M
1	5.252	5.252	0.000	66288	0.0200	0.0186	M
		Average of Peak Amounts =				0.0211	
2	3.754	3.754	0.000	60851	0.0200	0.0246	
2	4.168	4.168	0.000	69333	0.0200	0.0262	
2	4.470	4.470	0.000	48167	0.0200	0.0258	
2	4.617	4.617	0.000	101216	0.0200	0.0273	
2	4.933	4.933	0.000	66206	0.0200	0.0262	
		Average of Peak Amounts =				0.0260	
						RPD = 20.70	
$ 15 DCB Decachlorobiphenyl							M
1	6.826	6.826	0.000	22854	0.000500	0.000918	M
2	5.866	5.866	0.000	25454	0.000500	0.000706	
						RPD = 26.06	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00010 Amount Added: 1.00 Units: mL

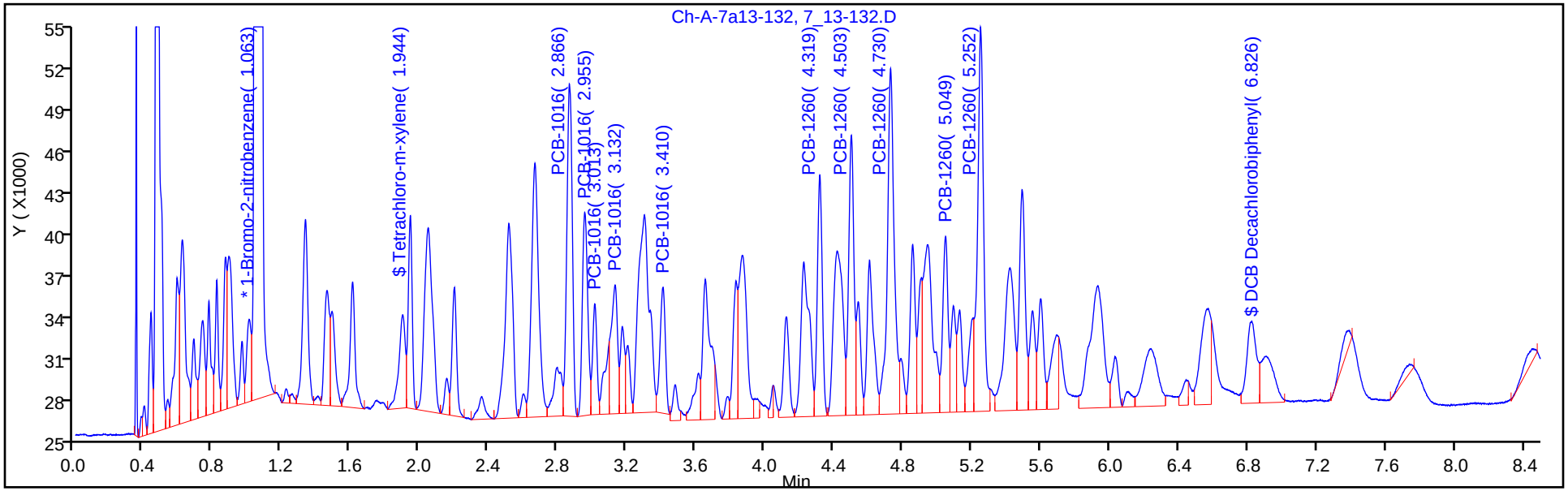
Report Date: 08-May-2018 12:38:55 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

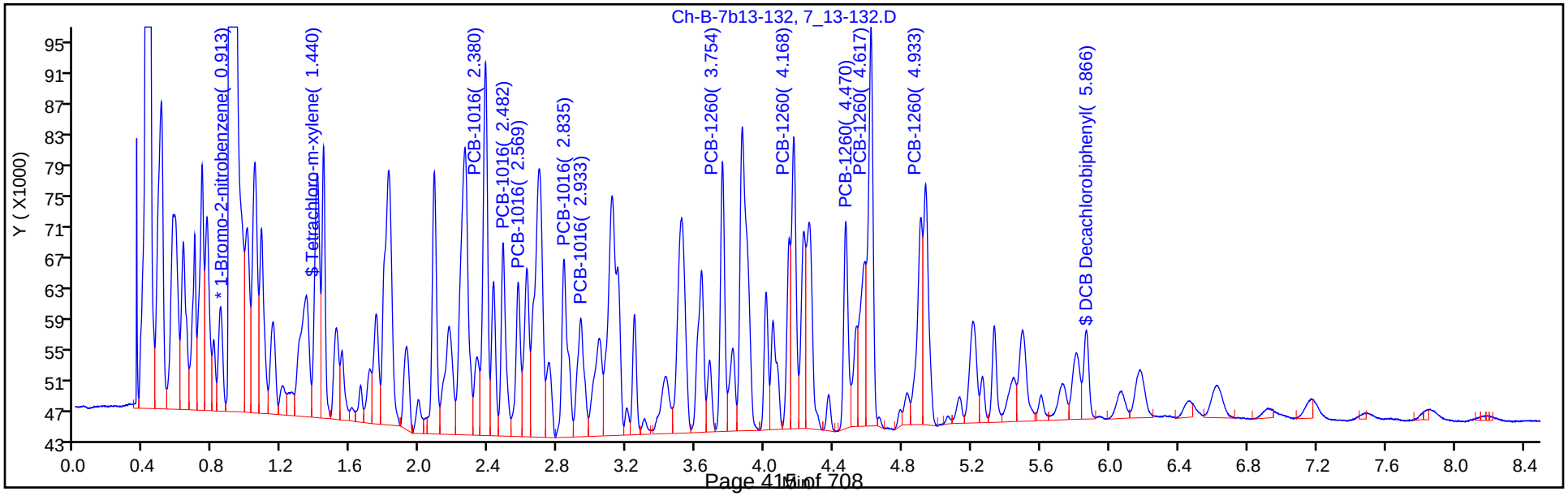
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-132.D

Injection Date:	07-May-2018 16:02:16	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 08-May-2018 12:38:55 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-132.D

Injection Date: 07-May-2018 16:02:16 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

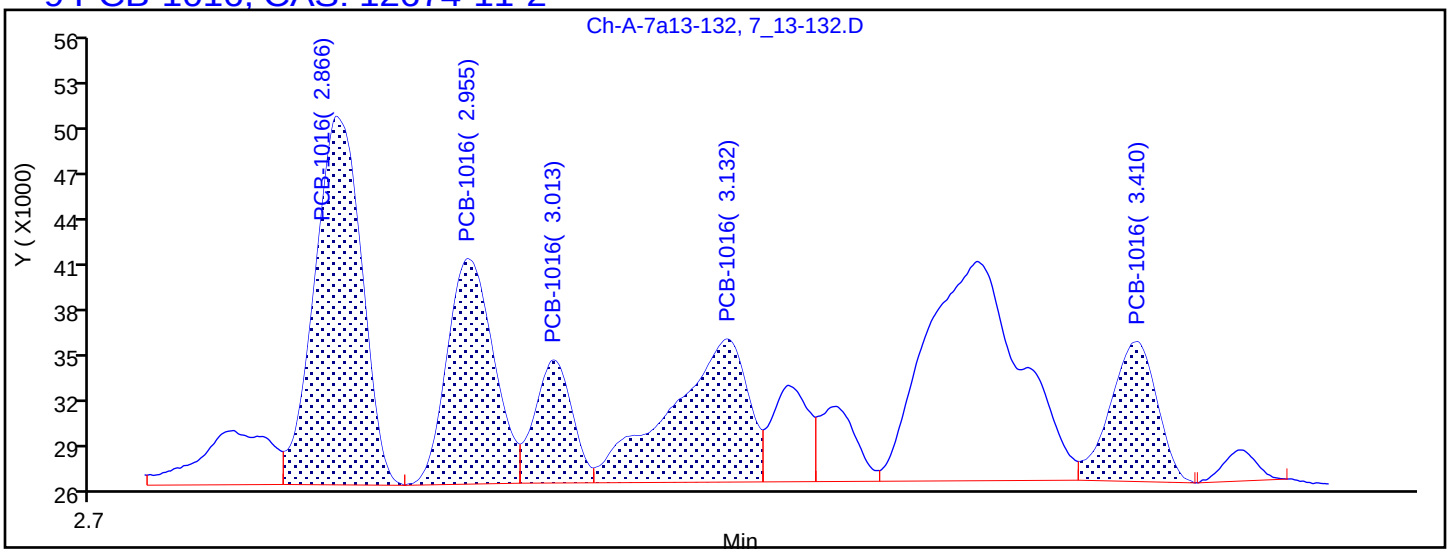
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

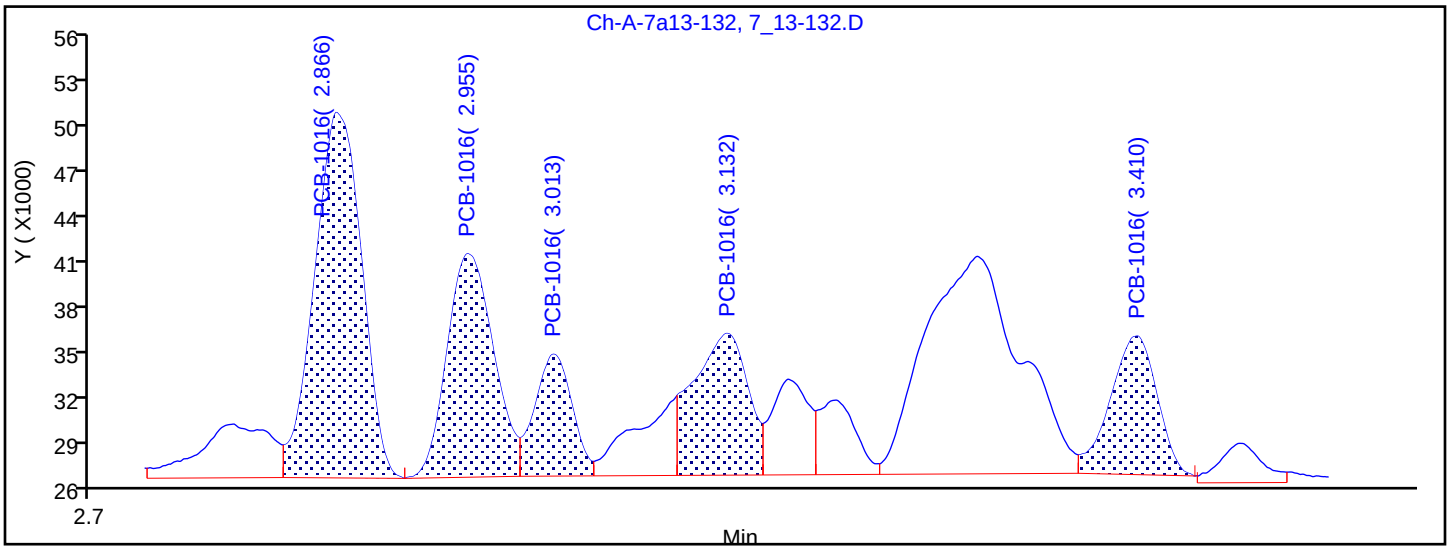
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.866	Response = 52040
2.955	Response = 31463
3.013	Response = 13798
3.132	Response = 33327
3.410	Response = 19545



Manual Integration Results

2.866	Response = 52040	
2.955	Response = 31463	
3.013	Response = 13798	
3.132	Response = 23385	M
3.410	Response = 19545	

Reviewer: salversonj, 08-May-2018 11:27:03

Audit Action: Split an Integrated Peak Audit Reason: split

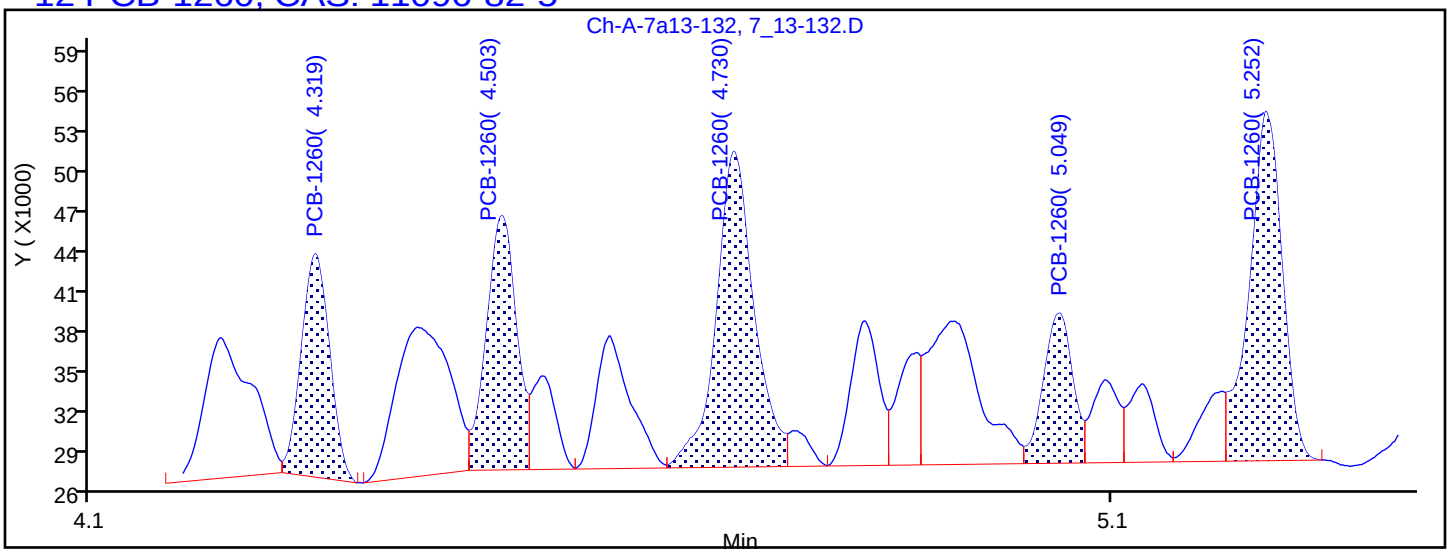
Report Date: 08-May-2018 12:38:55 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-132.D

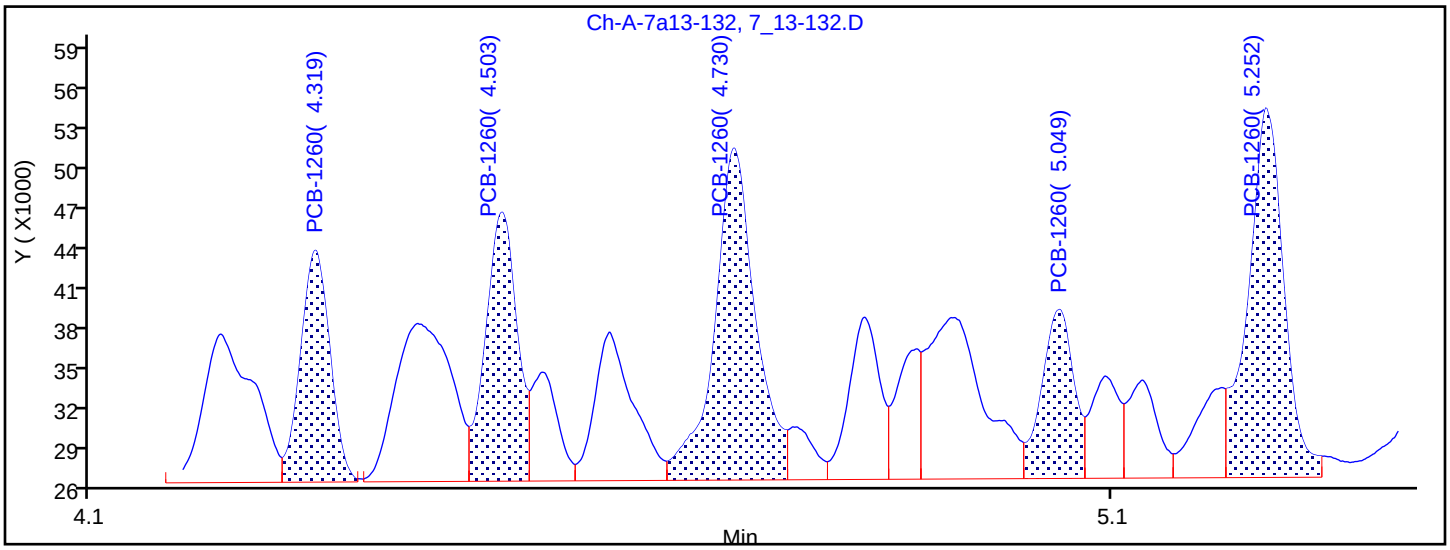
Injection Date:	07-May-2018 16:02:16	Instrument ID:	HP6890-7		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.319	Response = 31556
4.503	Response = 38305
4.730	Response = 59806
5.049	Response = 22085
5.252	Response = 57720



Manual Integration Results

4.319	Response = 34229	M
4.503	Response = 42242	M
4.730	Response = 68532	M
5.049	Response = 27125	M
5.252	Response = 66288	M

Reviewer: salversonj, 08-May-2018 07:00:42

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

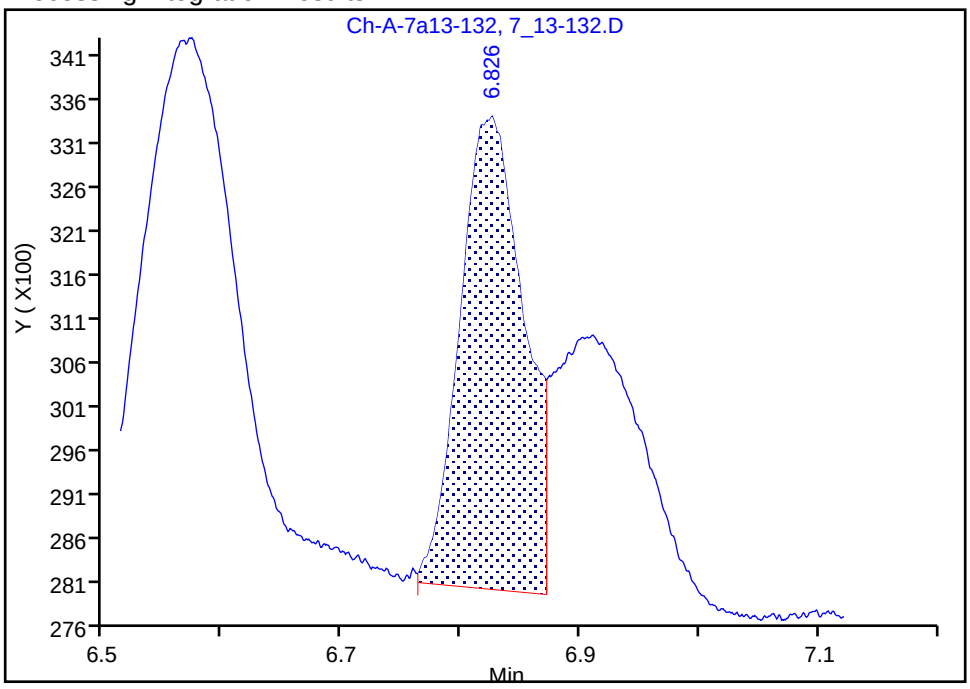
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-132.D
Injection Date: 07-May-2018 16:02:16 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

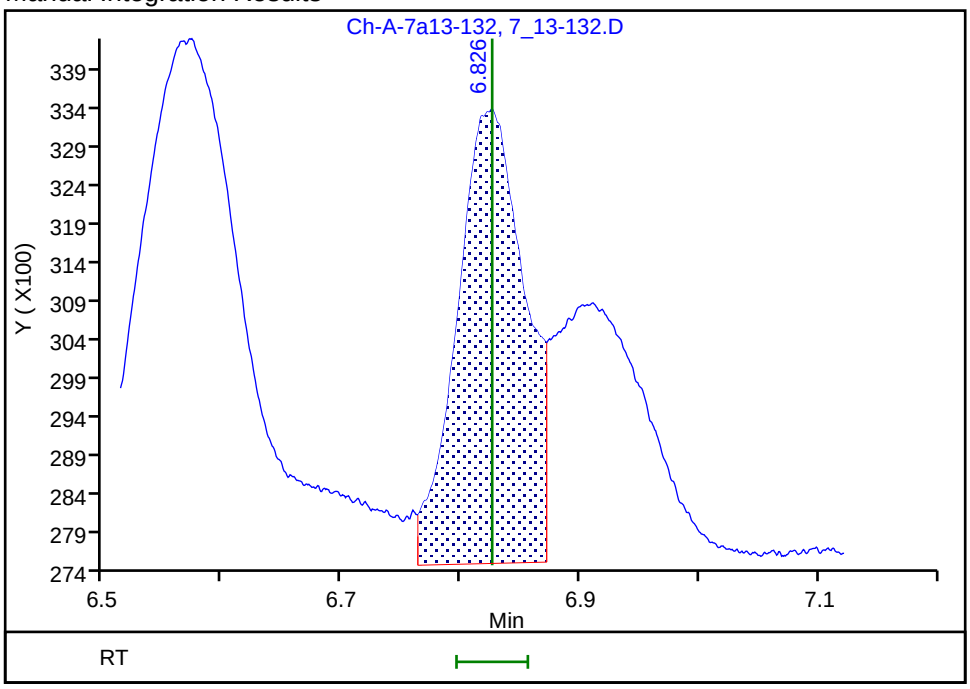
RT: 6.83
Area: 19909
Amount: 0.000384
Amount Units: ng/uL

Processing Integration Results



RT: 6.83
Area: 22854
Amount: 0.000918
Amount Units: ng/uL

Manual Integration Results



Reviewer: salversonj, 08-May-2018 07:00:42
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 14:26 Calibration End Date: 05/07/2018 16:02 Calibration ID: 33760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/10	7_13-132.D
Level 2	IC 480-413004/9	7_13-131.D
Level 3	IC 480-413004/8	7_13-130.D
Level 4	IC 480-413004/7	7_13-129.D
Level 5	ICIS 480-413004/6	7_13-128.D
Level 6	IC 480-413004/5	7_13-127.D
Level 7	IC 480-413004/4	7_13-126.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0997 0.0724	0.1166 0.0720	0.0828	0.0800	0.0867	Ave		0.0872				18.4		20.0			
PCB-1016 Peak 2	0.0524 0.0329	0.0484 0.0319	0.0414	0.0383	0.0343	Ave		0.0399				19.8		20.0			
PCB-1016 Peak 3	0.0421 0.0201	0.0324 0.0199	0.0262	0.0234	0.0232	Lin1	0.0005	0.0201							0.9970		0.9900
PCB-1016 Peak 4	0.0612 0.0382	0.0553 0.0374	0.0479	0.0445	0.0395	Ave		0.0463				19.8		20.0			
PCB-1016 Peak 5	0.0473 0.0293	0.0430 0.0287	0.0374	0.0344	0.0304	Lin1	0.0005	0.0289							0.9980		0.9900
PCB-1260 Peak 1	0.0662 0.0469	0.0620 0.0465	0.0561	0.0531	0.0465	Ave		0.0539				14.8		20.0			
PCB-1260 Peak 2	0.0754 0.0494	0.0671 0.0495	0.0566	0.0535	0.0508	Ave		0.0575				17.5		20.0			
PCB-1260 Peak 3	0.0524 0.0349	0.0460 0.0348	0.0426	0.0397	0.0341	Ave		0.0406				16.8		20.0			
PCB-1260 Peak 4	0.1101 0.0689	0.0892 0.0702	0.0805	0.0753	0.0705	Ave		0.0807				18.4		20.0			
PCB-1260 Peak 5	0.0720 0.0470	0.0611 0.0474	0.0567	0.0534	0.0467	Ave		0.0549				17.0		20.0			
Tetrachloro-m-xylene	+++++ 1.3595	2.1674 1.3500	1.5831	1.5154	1.6238	Ave		1.5999				18.8		20.0			
DCB Decachlorobiphenyl	+++++ 0.6874	0.9202 0.6705	0.9281	0.8375	0.6601	Ave		0.7840				16.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1 | Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 | GC Column: ZB-35 | ID: 0.53(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 14:26 | Calibration End Date: 05/07/2018 16:02 | Calibration ID: 33760

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/10	7_13-132.D
Level 2	IC 480-413004/9	7_13-131.D
Level 3	IC 480-413004/8	7_13-130.D
Level 4	IC 480-413004/7	7_13-129.D
Level 5	ICIS 480-413004/6	7_13-128.D
Level 6	IC 480-413004/5	7_13-127.D
Level 7	IC 480-413004/4	7_13-126.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			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
PCB-1016 Peak 1	BNB	Ave	91679 3510386	281731 6669053	382606	743275	2260490	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Ave	48180 1596243	116934 2950807	191197	355758	894341	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	38736 976816	78206 1844707	121121	217190	604915	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Ave	56324 1853331	133721 3463273	221245	412909	1028656	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	43472 1422254	104011 2660524	172825	319881	791197	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Ave	60851 2272580	149751 4303623	259341	493394	1210811	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Ave	69333 2395356	162146 4581366	261670	496524	1324130	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Ave	48167 1691423	111078 3218917	196922	368901	888996	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Ave	101216 3342013	215659 6495523	372120	699084	1836973	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Ave	66206 2279368	147672 4388220	262059	495701	1215762	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Ave	+++++ 1647923	130939 3124346	182915	351836	1057969	+++++ 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Ave	+++++ 833271	55589 1551774	107235	194454	430067	+++++ 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-126.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 07-May-2018 14:26:43 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:34 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 06:59:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.062	0.000	11046430	0.5000	0.5000	
2	0.910	0.911	-0.001	23143426	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.944	1.943	0.002	1654877	0.0500	0.0431	
2	1.439	1.438	0.001	3124346	0.0500	0.0422	
						RPD = 2.17	
9 PCB-1016							
1	2.870	2.868	0.002	4218893	2.00	1.80	
1	2.953	2.952	0.001	1551137	2.00	1.98	
1	3.015	3.014	0.001	1103414	2.00	1.77	
1	3.135	3.133	0.002	793904	2.00	1.91	
1	3.410	3.408	0.002	1368984	2.00	1.71	
		Average of Peak Amounts =				1.83	
2	2.378	2.378	0.000	6669053	2.00	1.65	
2	2.481	2.480	0.001	2950807	2.00	1.60	
2	2.568	2.567	0.001	1844707	2.00	1.96	
2	2.834	2.833	0.001	3463273	2.00	1.62	
2	2.932	2.931	0.001	2660524	2.00	1.97	
		Average of Peak Amounts =				1.76	
						RPD = 4.13	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.320	4.320	0.000	2522961	2.00	1.77	
1	4.503	4.502	0.000	2749484	2.00	1.72	
1	4.729	4.730	-0.001	3531943	2.00	1.99	
1	5.048	5.048	0.000	1606093	2.00	2.03	
1	5.255	5.253	0.002	3774789	2.00	2.02	
		Average of Peak Amounts =				1.91	
2	3.755	3.754	0.001	4303623	2.00	1.73	
2	4.168	4.168	0.000	4581366	2.00	1.72	
2	4.469	0.000	4.469	3218917	2.00	1.71	
2	4.617	0.000	4.617	6495523	2.00	1.74	
2	4.935	4.936	-0.001	4388220	2.00	1.73	
		Average of Peak Amounts =				1.73	
						RPD = 9.97	
$ 15 DCB Decachlorobiphenyl							
1	6.822	6.823	-0.001	1066331	0.0500	0.0420	
2	5.867	5.865	0.002	1551774	0.0500	0.0428	
						RPD = 1.90	

Reagents:

1660sur/is2.0_00008 Amount Added: 1.00 Units: mL

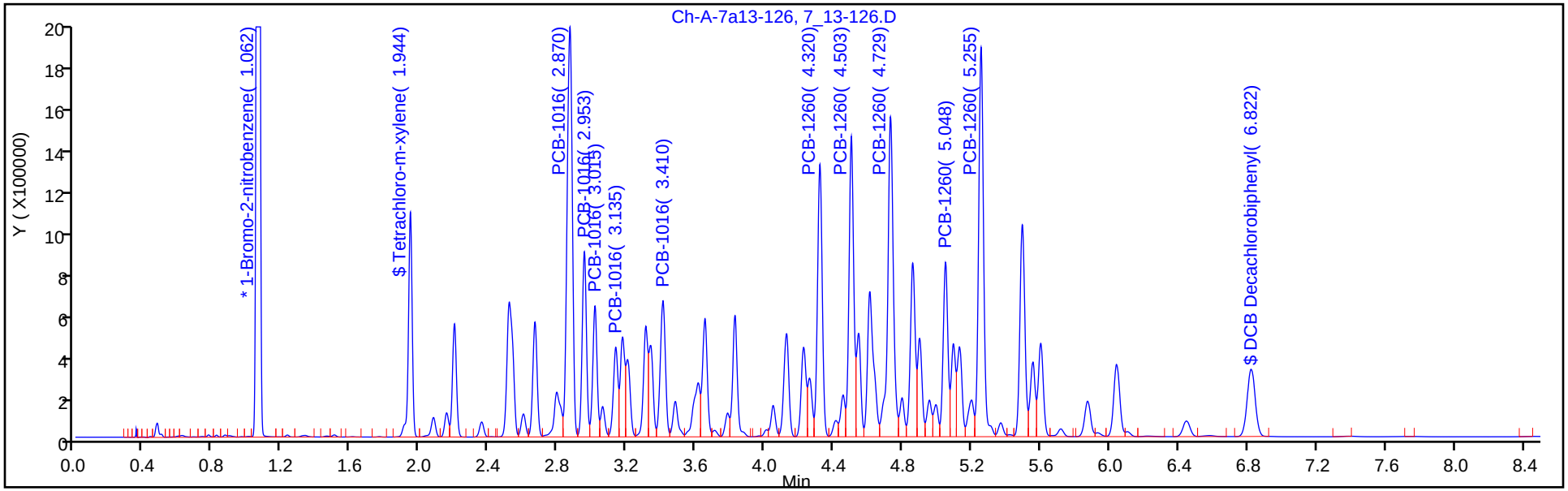
Report Date: 08-May-2018 12:38:35 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

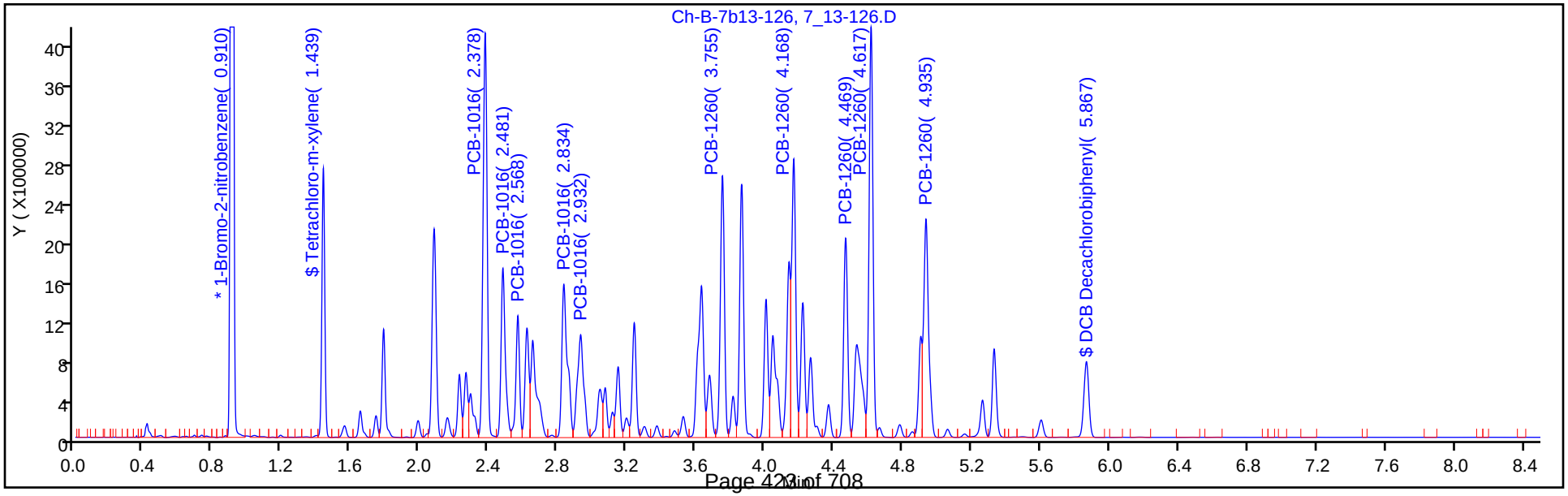
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-126.D

Injection Date:	07-May-2018 14:26:43	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-127.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 07-May-2018 14:42:47 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:37 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.062	0.000	11406332	0.5000	0.5000	
2	0.910	0.911	-0.001	24242554	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.943	1.943	0.001	866563	0.0250	0.0219	
2	1.438	1.438	0.000	1647923	0.0250	0.0212	
						RPD = 2.88	
9 PCB-1016							
1	2.868	2.868	0.000	2231730	1.00	0.9196	
1	2.953	2.952	0.000	828283	1.00	1.01	
1	3.014	3.014	0.000	578603	1.00	0.9003	
1	3.134	3.133	0.001	430344	1.00	0.9830	
1	3.409	3.408	0.001	715417	1.00	0.8649	
		Average of Peak Amounts =				0.9358	
2	2.378	2.378	0.000	3510386	1.00	0.8305	
2	2.481	2.480	0.001	1596243	1.00	0.8243	
2	2.567	2.567	0.000	976816	1.00	0.9776	
2	2.833	2.833	0.000	1853331	1.00	0.8258	
2	2.930	2.931	-0.001	1422254	1.00	1.00	
		Average of Peak Amounts =				0.8908	
						RPD = 4.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.318	4.320	-0.002	1319545	1.00	0.8950	
1	4.502	4.502	0.000	1419127	1.00	0.8591	
1	4.730	4.730	0.000	1824575	1.00	0.9862	
1	5.048	5.048	0.000	811967	1.00	0.9856	
1	5.254	5.253	0.001	1927547	1.00	0.99	
		Average of Peak Amounts =				0.9433	
2	3.754	3.754	0.000	2272580	1.00	0.8698	
2	4.168	4.168	0.000	2395356	1.00	0.8597	
2	4.468	0.000	4.468	1691423	1.00	0.8585	
2	4.617	0.000	4.617	3342013	1.00	0.8545	
2	4.934	4.936	-0.002	2279368	1.00	0.8564	
		Average of Peak Amounts =				0.8598	
						RPD = 9.26	
$ 15 DCB Decachlorobiphenyl							
1	6.820	6.823	-0.003	574135	0.0250	0.0219	
2	5.866	5.865	0.001	833271	0.0250	0.0219	
						RPD = 0.20	

Reagents:

1660sur/is1.0_00009 Amount Added: 1.00 Units: mL

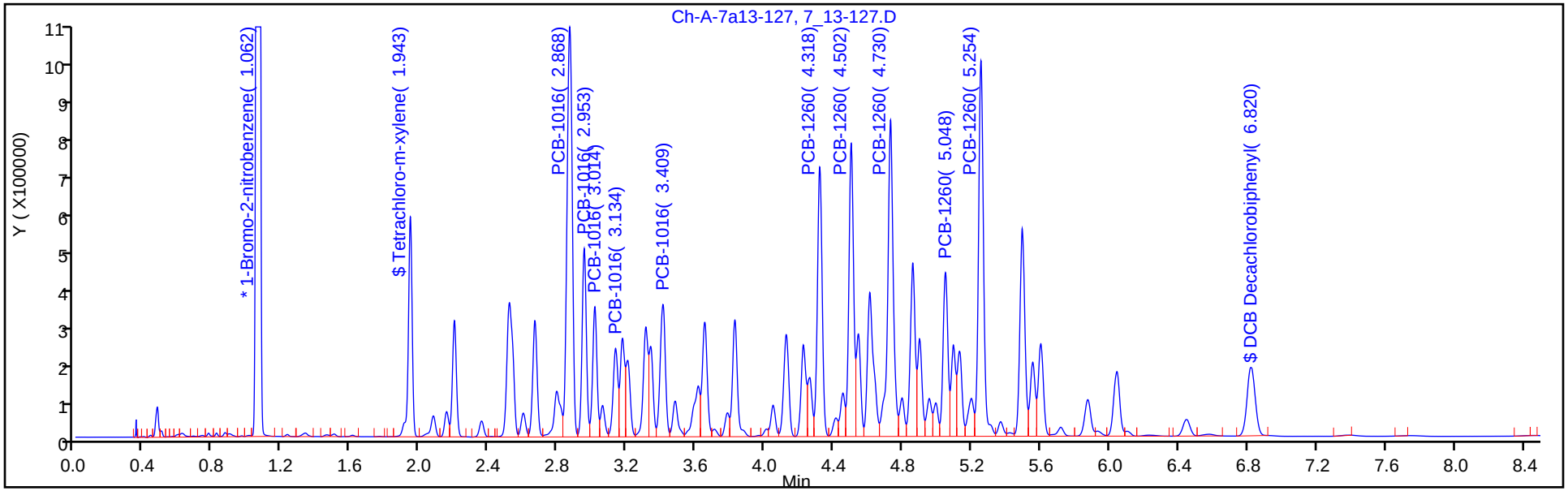
Report Date: 08-May-2018 12:38:38 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

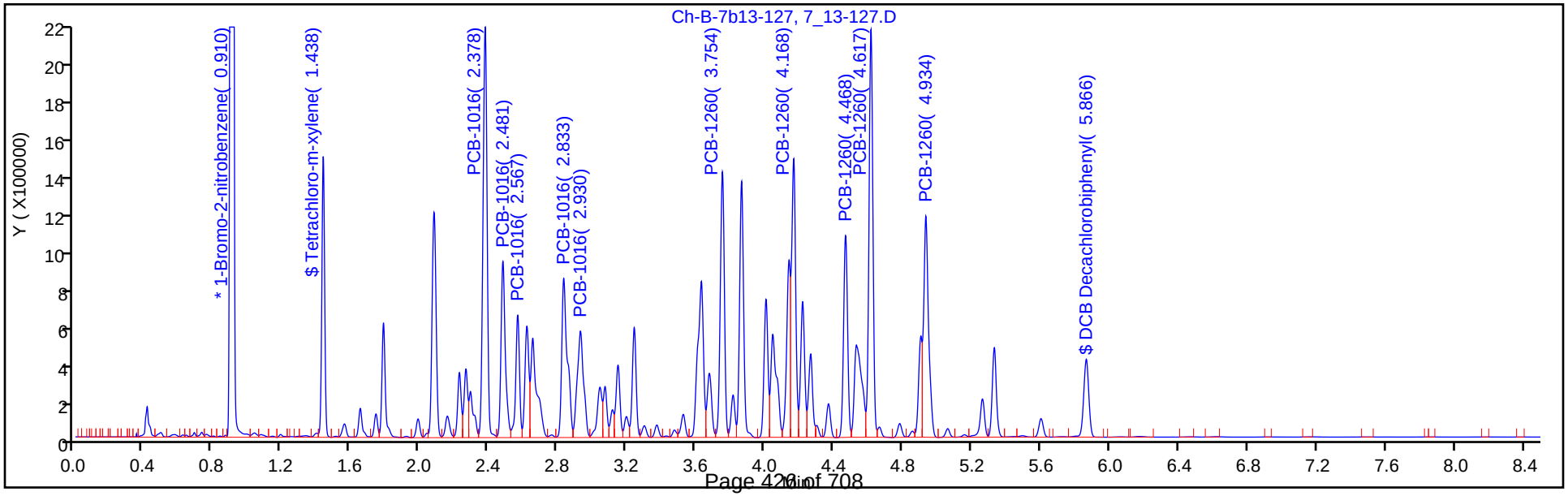
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-127.D

Injection Date:	07-May-2018 14:42:47	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-128.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 07-May-2018 14:58:36 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:41 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 07-May-2018 17:45:44

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.062	0.000	12254361	0.5000	0.5000	
2	0.911	0.911	0.000	26060757	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.943	1.943	0.000	531035	0.0125	0.0125	
2	1.438	1.438	0.000	1057969	0.0125	0.0127	
						RPD = 1.71	
9 PCB-1016							
1	2.868	2.868	0.000	1200146	0.5000	0.4603	
1	2.952	2.952	0.000	453786	0.5000	0.5050	
1	3.013	3.013	0.000	312652	0.5000	0.4528	
1	3.133	3.133	0.000	278385	0.5000	0.5748	
1	3.407	3.407	0.000	397842	0.5000	0.4477	
		Average of Peak Amounts =				0.4881	
2	2.377	2.377	0.000	2260490	0.5000	0.4975	
2	2.481	2.481	0.000	894341	0.5000	0.4296	
2	2.567	2.567	0.000	604915	0.5000	0.5520	
2	2.834	2.834	0.000	1028656	0.5000	0.4264	
2	2.932	2.932	0.000	791197	0.5000	0.5061	
		Average of Peak Amounts =				0.4823	
						RPD = 1.20	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.318	4.318	0.000	675655	0.5000	0.4266	
1	4.501	4.501	0.000	756158	0.5000	0.4261	
1	4.728	4.728	0.000	1030741	0.5000	0.5082	
1	5.048	5.048	0.000	414190	0.5000	0.4587	
1	5.253	5.253	0.000	1011699	0.5000	0.4747	
		Average of Peak Amounts =				0.4588	
2	3.754	3.754	0.000	1210811	0.5000	0.4311	
2	4.168	4.168	0.000	1324130	0.5000	0.4421	
2	4.469	4.469	0.000	888996	0.5000	0.4197	
2	4.615	4.615	0.000	1836973	0.5000	0.4369	
2	4.934	4.934	0.000	1215762	0.5000	0.4249	
		Average of Peak Amounts =				0.4309	
						RPD = 6.27	
$ 15 DCB Decachlorobiphenyl							
1	6.822	6.822	0.000	306172	0.0125	0.0109	
2	5.865	5.865	0.000	430067	0.0125	0.0105	
						RPD = 3.13	

Reagents:

1660sur/is0.5_00027 Amount Added: 1.00 Units: mL

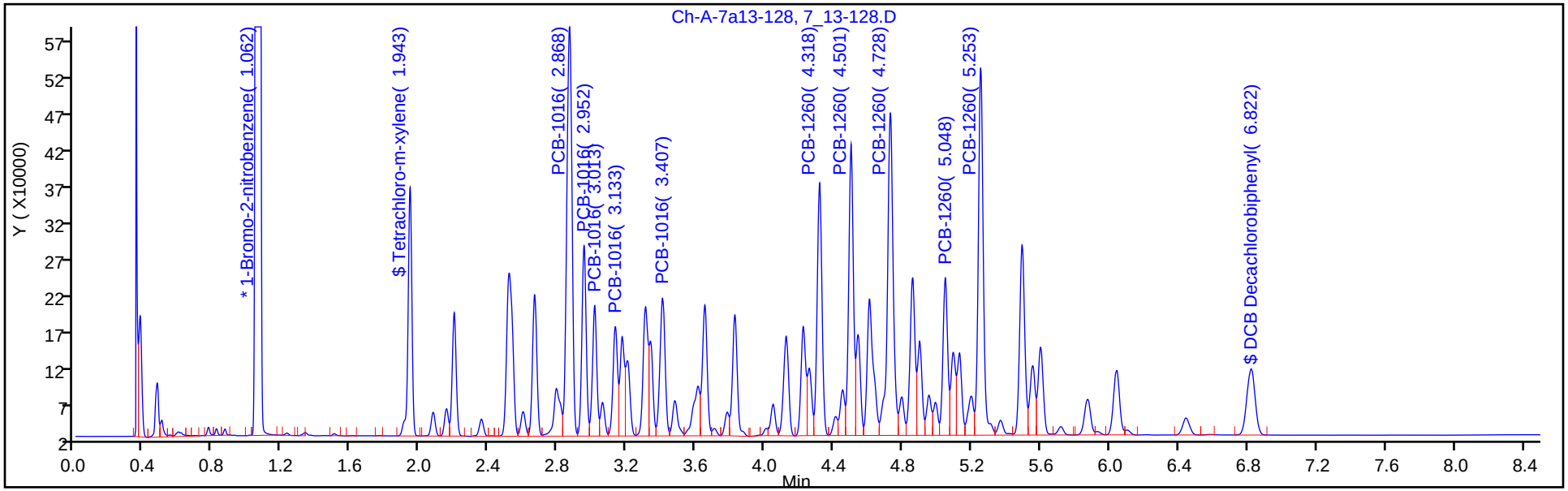
Report Date: 08-May-2018 12:38:42 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

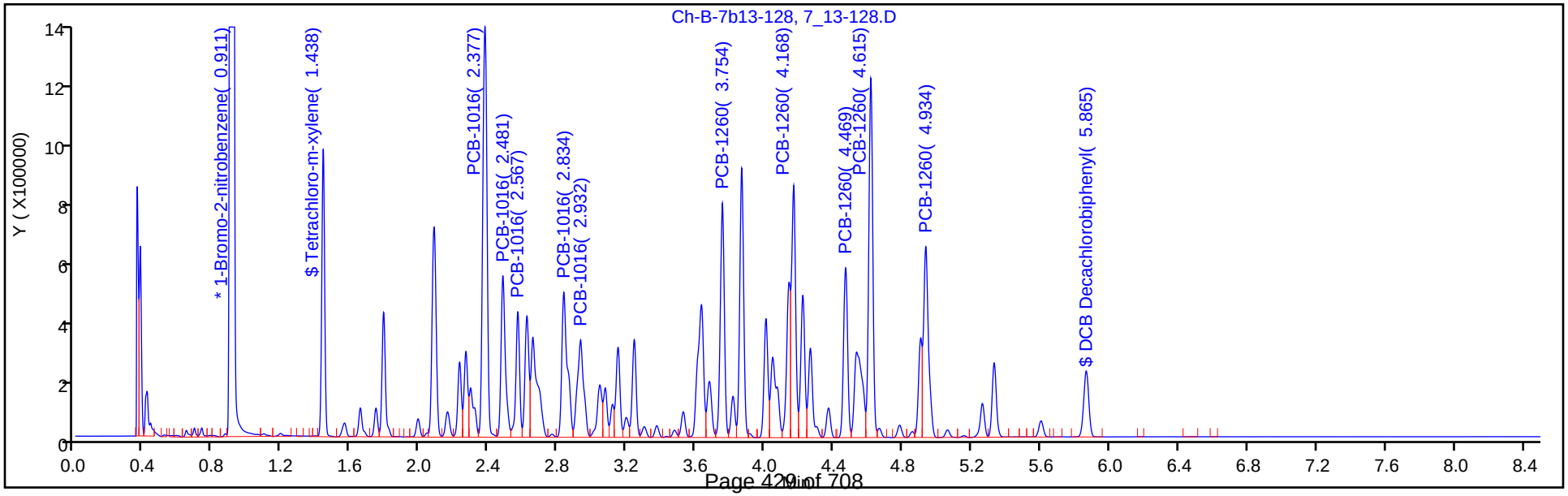
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-128.D

Injection Date:	07-May-2018 14:58:36	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-129.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-May-2018 15:14:35 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:44 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 07:01:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.061	1.062	-0.001	10961658	0.5000	0.5000	
2	0.910	0.911	-0.001	23217803	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.943	1.943	0.001	194414	0.005000	0.005104	
2	1.438	1.438	0.000	351836	0.005000	0.004736	
						RPD = 7.49	
9 PCB-1016							M
1	2.868	2.868	0.000	460618	0.2000	0.1975	
1	2.951	2.952	-0.001	176476	0.2000	0.2072	
1	3.014	3.013	0.001	122500	0.2000	0.1984	
1	3.133	3.133	0.001	107206	0.2000	0.2229	
1	3.409	3.407	0.002	152859	0.2000	0.1923	
		Average of Peak Amounts =				0.2036	
2	2.378	2.377	0.001	743275	0.2000	0.1836	M
2	2.480	2.481	-0.001	355758	0.2000	0.1918	M
2	2.567	2.567	0.000	217190	0.2000	0.2067	M
2	2.834	2.834	0.000	412909	0.2000	0.1921	M
2	2.931	2.932	-0.001	319881	0.2000	0.2194	M
		Average of Peak Amounts =				0.1987	
						RPD = 2.45	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.318	4.318	0.000	278527	0.2000	0.1966	
1	4.501	4.501	0.000	301196	0.2000	0.1897	
1	4.728	4.728	0.000	398950	0.2000	0.2074	
1	5.048	5.048	0.000	180251	0.2000	0.2141	
1	5.253	5.253	0.001	415319	0.2000	0.2081	
		Average of Peak Amounts =				0.2032	
2	3.754	3.754	0.000	493394	0.2000	0.1972	M
2	4.168	4.168	0.000	496524	0.2000	0.1861	M
2	4.470	4.469	0.001	368901	0.2000	0.1955	M
2	4.616	4.615	0.001	699084	0.2000	0.1866	M
2	4.935	4.934	0.001	495701	0.2000	0.1945	M
		Average of Peak Amounts =				0.1920	
						RPD = 5.69	
$ 15 DCB Decachlorobiphenyl							
1	6.820	6.822	-0.002	131909	0.005000	0.005231	
2	5.865	5.865	0.000	194454	0.005000	0.005342	
						RPD = 2.10	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00008 Amount Added: 1.00 Units: mL

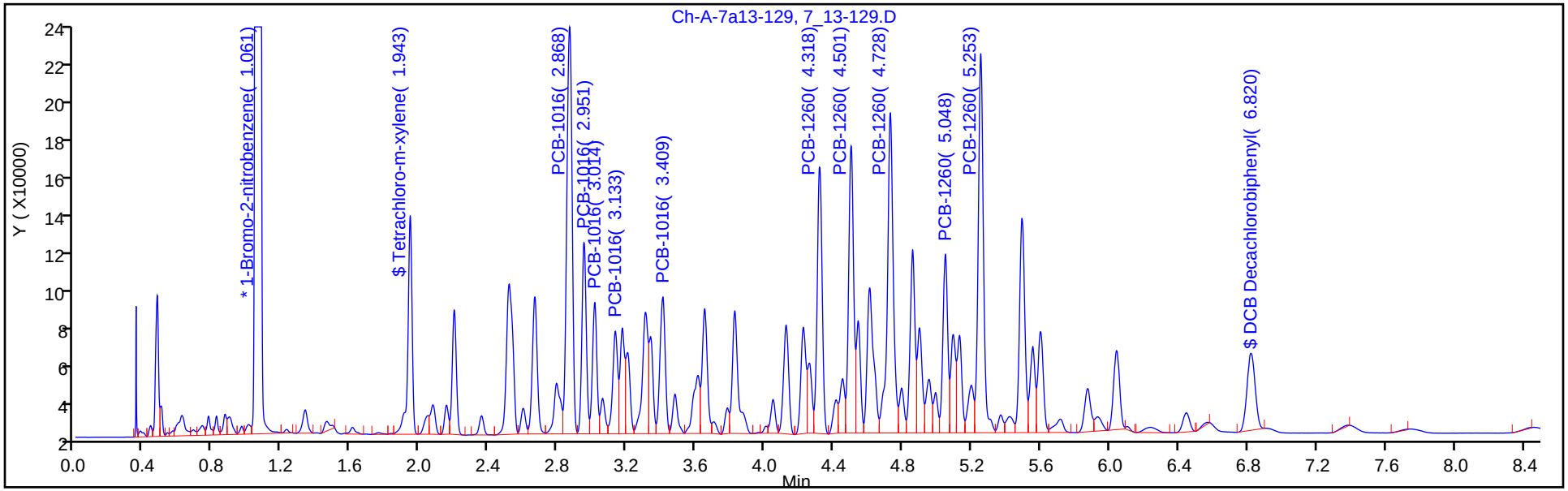
Report Date: 08-May-2018 12:38:45 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

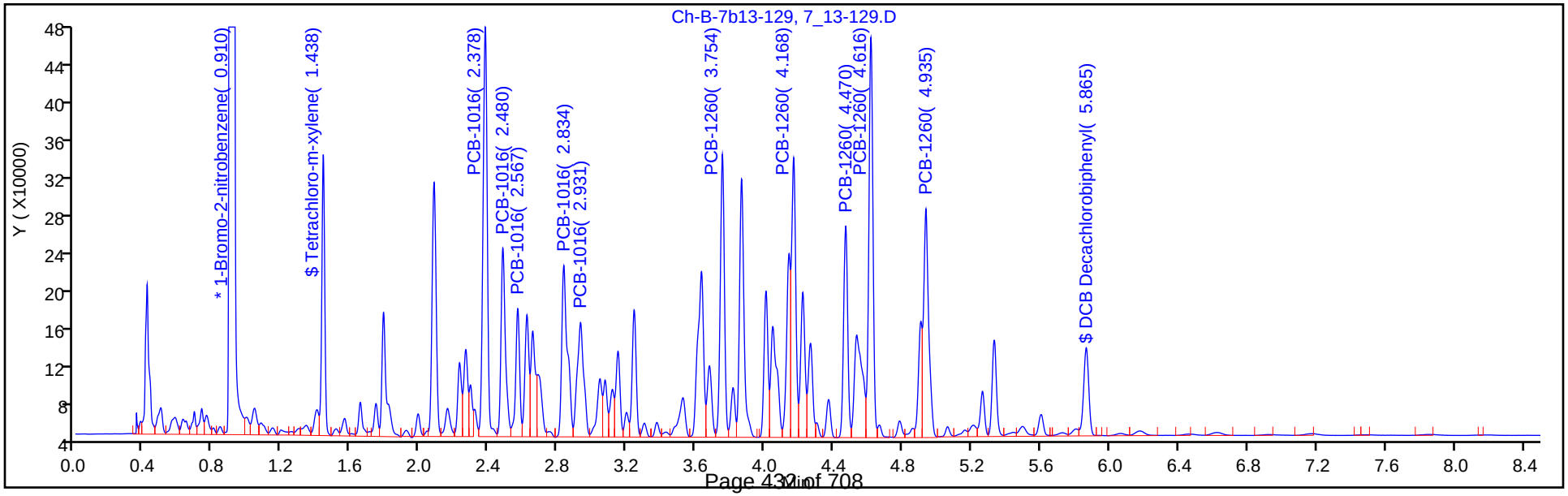
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-129.D

Injection Date:	07-May-2018 15:14:35	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



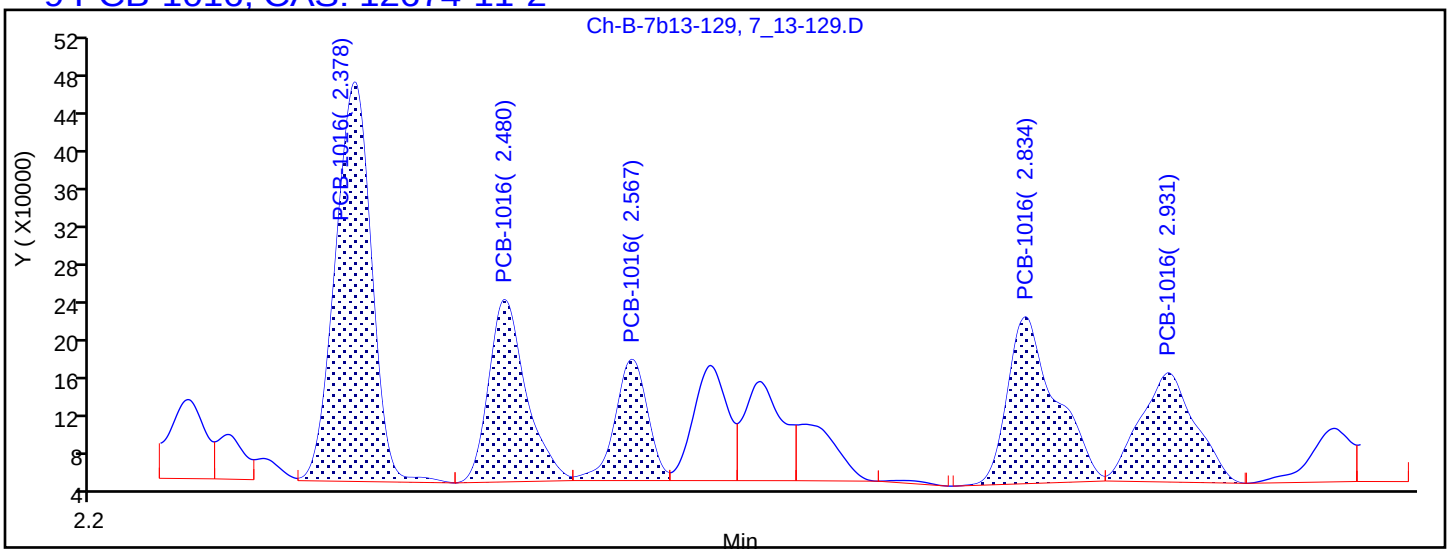
Report Date: 08-May-2018 12:38:45 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-129.D

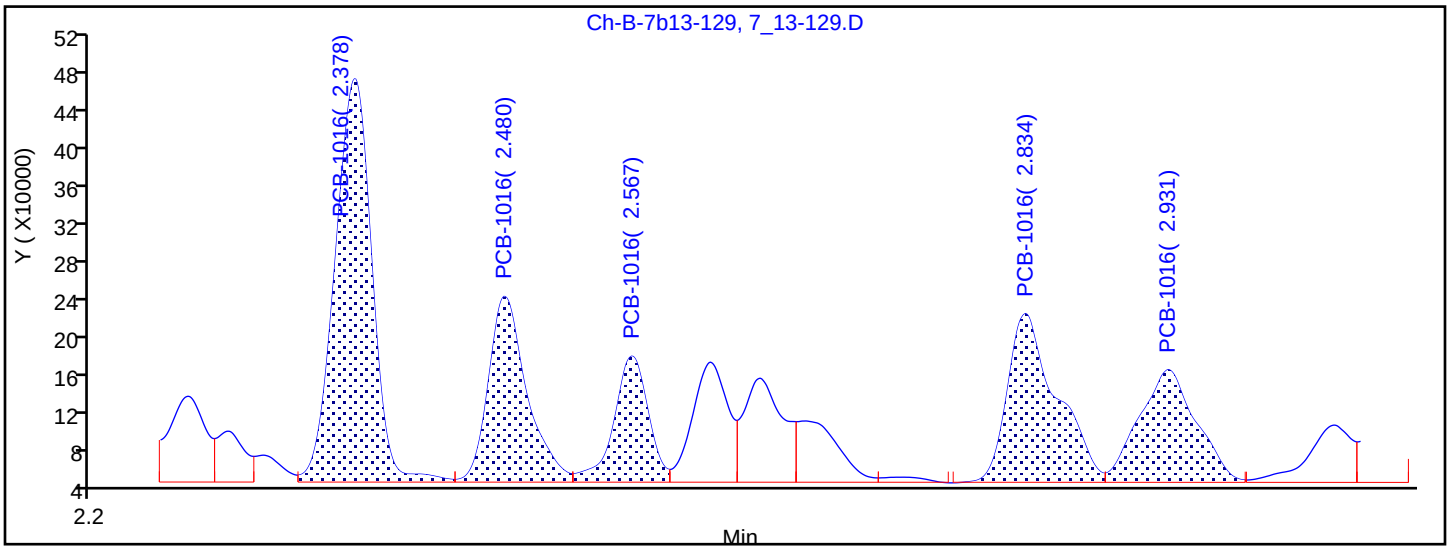
Injection Date:	07-May-2018 15:14:35	Instrument ID:	HP6890-7		
Lims ID:	IC 4				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.378	Response = 718811
2.480	Response = 337043
2.567	Response = 196765
2.834	Response = 399672
2.931	Response = 298930



Manual Integration Results

2.378	Response = 743275	M
2.480	Response = 355758	M
2.567	Response = 217190	M
2.834	Response = 412909	M
2.931	Response = 319881	M

Reviewer: salversonj, 08-May-2018 07:01:35

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 08-May-2018 12:38:45 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-129.D

Injection Date: 07-May-2018 15:14:35 Instrument ID: HP6890-7

Lims ID: IC 4

Client ID:

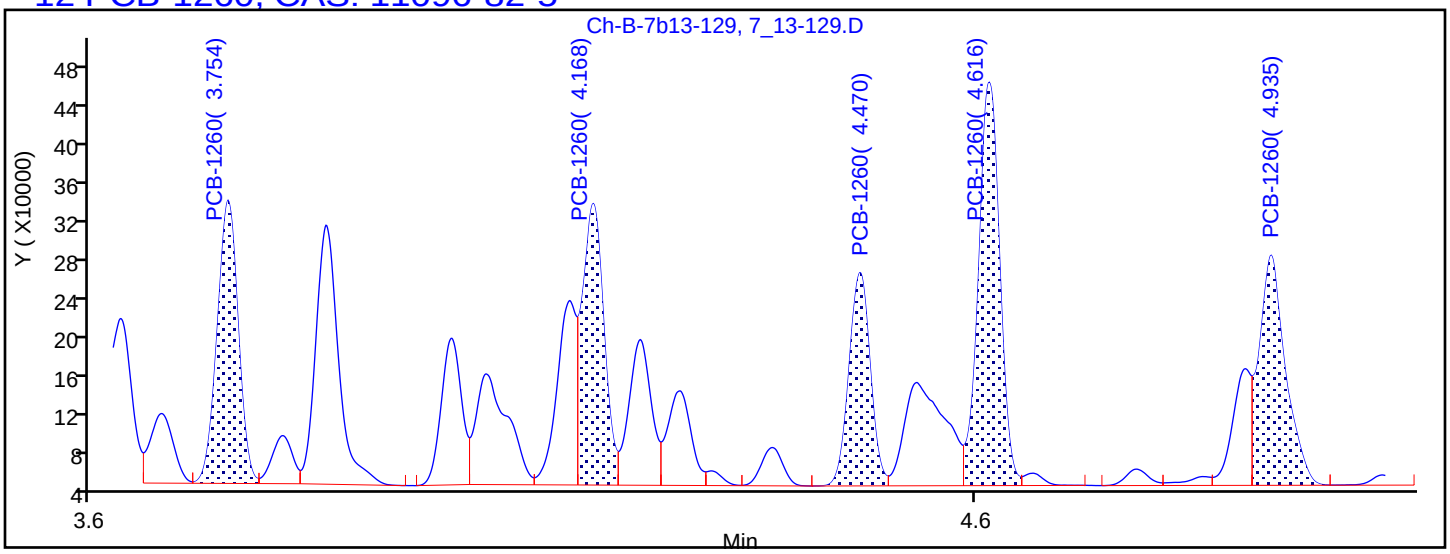
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

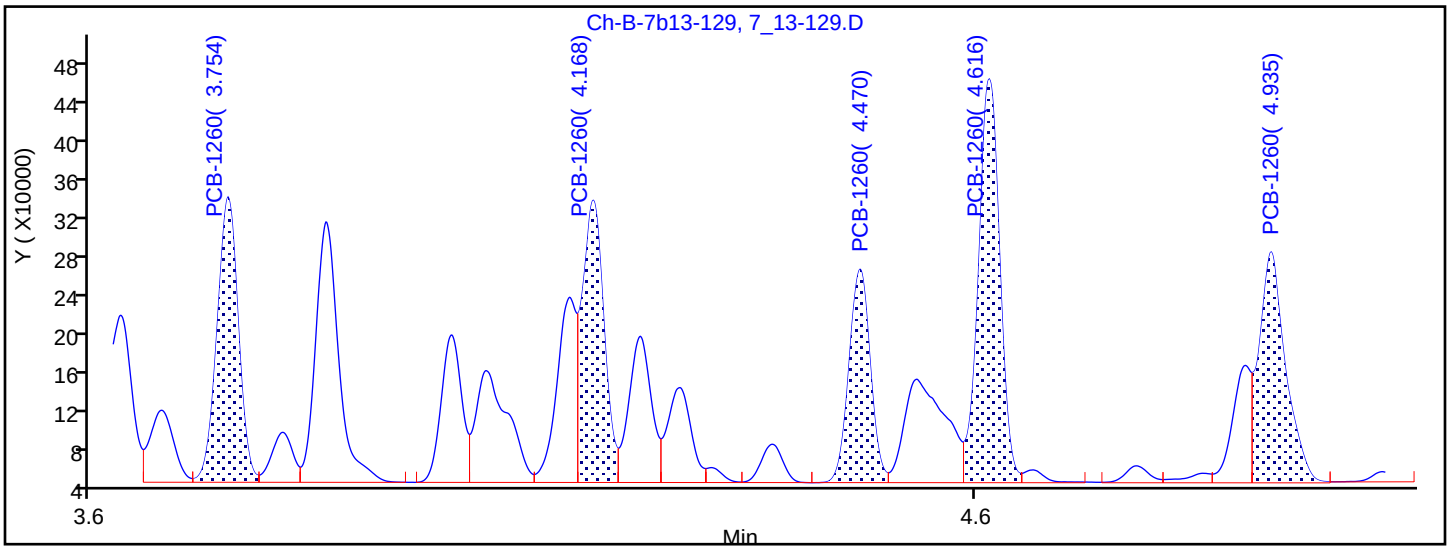
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

3.754	Response = 483337
4.168	Response = 494509
4.470	Response = 369023
4.616	Response = 697605
4.935	Response = 491119



Manual Integration Results

3.754	Response = 493394	M
4.168	Response = 496524	M
4.470	Response = 368901	M
4.616	Response = 699084	M
4.935	Response = 495701	M

Reviewer: salversonj, 08-May-2018 07:01:35

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-130.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-May-2018 15:30:25 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:47 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 07:01:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.062	0.000	10925722	0.5000	0.5000	
2	0.911	0.911	0.000	23108470	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.943	1.943	0.000	95402	0.002500	0.002513	M
2	1.439	1.438	0.001	182915	0.002500	0.002474	
						RPD = 1.57	
9 PCB-1016							M
1	2.868	2.868	0.000	236540	0.1000	0.1018	M
1	2.953	2.952	0.000	96762	0.1000	0.1041	M
1	3.013	3.013	-0.001	64525	0.1000	0.1048	M
1	3.133	3.133	0.001	66582	0.1000	0.1227	M
1	3.408	3.407	0.001	83941	0.1000	0.1059	M
		Average of Peak Amounts =				0.1079	
2	2.378	2.377	0.001	382606	0.1000	0.0950	
2	2.480	2.481	-0.001	191197	0.1000	0.1036	
2	2.567	2.567	0.000	121121	0.1000	0.1042	
2	2.834	2.834	0.000	221245	0.1000	0.1034	
2	2.931	2.932	-0.001	172825	0.1000	0.1105	
		Average of Peak Amounts =				0.1033	
						RPD = 4.29	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.318	4.318	0.000	147372	0.1000	0.1044	M
1	4.502	4.501	0.001	163364	0.1000	0.1032	M
1	4.728	4.728	0.000	224126	0.1000	0.1073	M
1	5.048	5.048	0.000	100513	0.1000	0.1120	M
1	5.254	5.253	0.002	228224	0.1000	0.1067	M
		Average of Peak Amounts =				0.1067	
2	3.755	3.754	0.001	259341	0.1000	0.1041	
2	4.168	4.168	0.000	261670	0.1000	0.0985	
2	4.469	4.469	0.000	196922	0.1000	0.1049	
2	4.616	4.615	0.001	372120	0.1000	0.0998	
2	4.935	4.934	0.001	262059	0.1000	0.1033	
		Average of Peak Amounts =				0.1021	
						RPD = 4.42	
$ 15 DCB Decachlorobiphenyl							
1	6.820	6.822	-0.002	70817	0.002500	0.002817	
2	5.865	5.865	0.000	107235	0.002500	0.002960	
						RPD = 4.93	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00009 Amount Added: 1.00 Units: mL

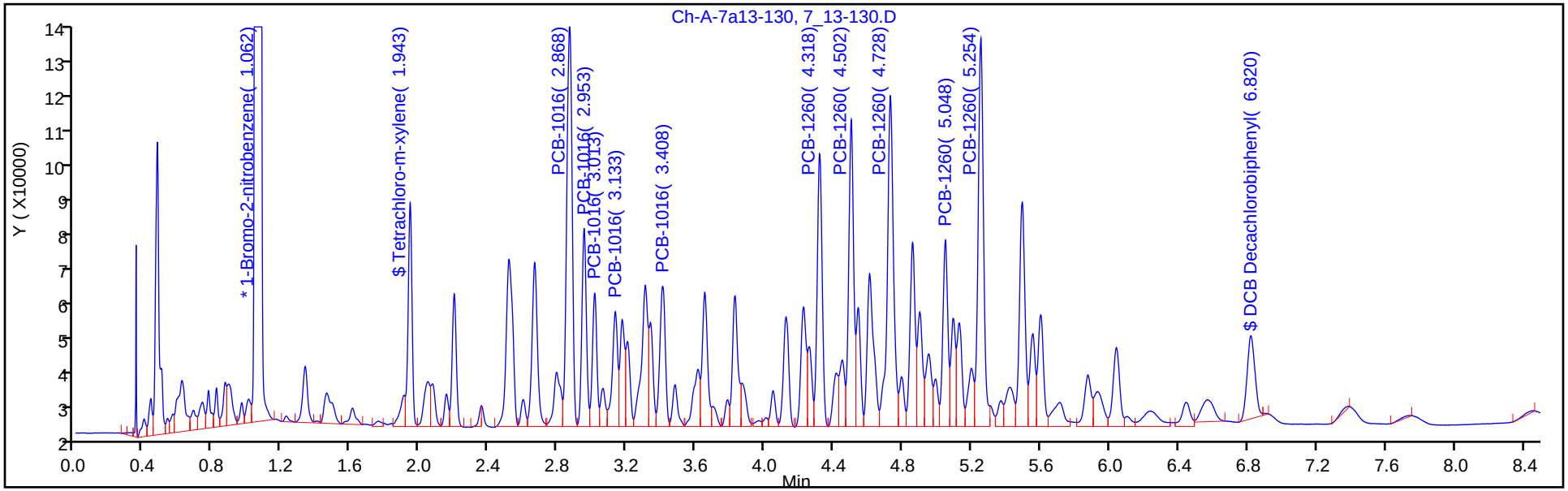
Report Date: 08-May-2018 12:38:48 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

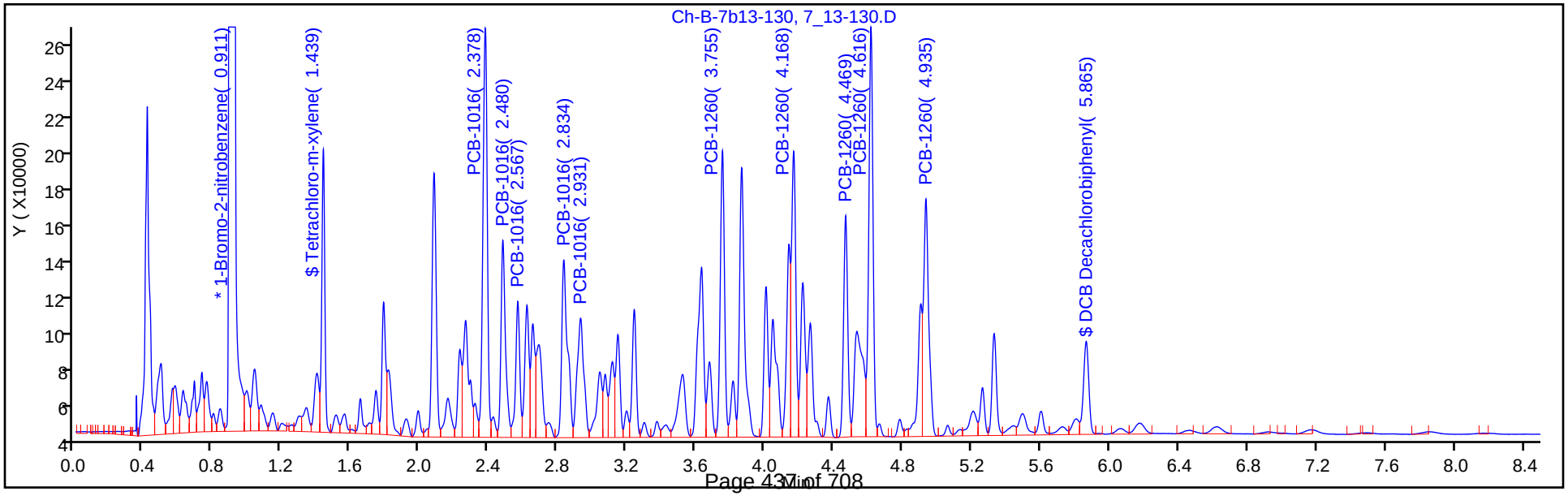
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-130.D

Injection Date:	07-May-2018 15:30:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-131.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-May-2018 15:46:26 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:51 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.062	0.000	11144095	0.5000	0.5000	
2	0.910	0.911	-0.001	24164930	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.943	1.943	0.001	59984	0.001250	0.001549	
2	1.438	1.438	0.000	130939	0.001250	0.001693	
						RPD = 8.90	
9 PCB-1016							
1	2.868	2.868	0.000	133662	0.0500	0.0564	
1	2.953	2.952	0.001	54040	0.0500	0.0471	
1	3.015	3.013	0.002	35670	0.0500	0.0568	
1	3.135	3.133	0.003	33758	0.0500	0.0393	
1	3.410	3.407	0.003	45226	0.0500	0.0560	
		Average of Peak Amounts =				0.0511	
2	2.377	2.377	0.000	281731	0.0500	0.0669	
2	2.481	2.481	0.000	116934	0.0500	0.0606	
2	2.568	2.567	0.001	78206	0.0500	0.0542	
2	2.834	2.834	0.000	133721	0.0500	0.0598	
2	2.932	2.932	0.000	104011	0.0500	0.0556	
		Average of Peak Amounts =				0.0594	
						RPD = 15.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.319	4.318	0.001	80572	0.0500	0.0559	
1	4.503	4.501	0.001	88830	0.0500	0.0550	
1	4.730	4.728	0.002	126549	0.0500	0.0496	
1	5.049	5.048	0.001	53687	0.0500	0.0503	
1	5.254	5.253	0.002	127813	0.0500	0.0505	
		Average of Peak Amounts =				0.0523	
2	3.754	3.754	0.000	149751	0.0500	0.0575	
2	4.168	4.168	0.000	162146	0.0500	0.0584	
2	4.470	4.469	0.001	111078	0.0500	0.0566	
2	4.616	4.615	0.001	215659	0.0500	0.0553	
2	4.934	4.934	0.000	147672	0.0500	0.0557	
		Average of Peak Amounts =				0.0567	
						RPD = 8.09	
$ 15 DCB Decachlorobiphenyl							
1	6.820	6.822	-0.002	39862	0.001250	0.001555	
2	5.865	5.865	0.000	55589	0.001250	0.001467	
						RPD = 5.80	

Reagents:

1660sur/is.05_00008 Amount Added: 1.00 Units: mL

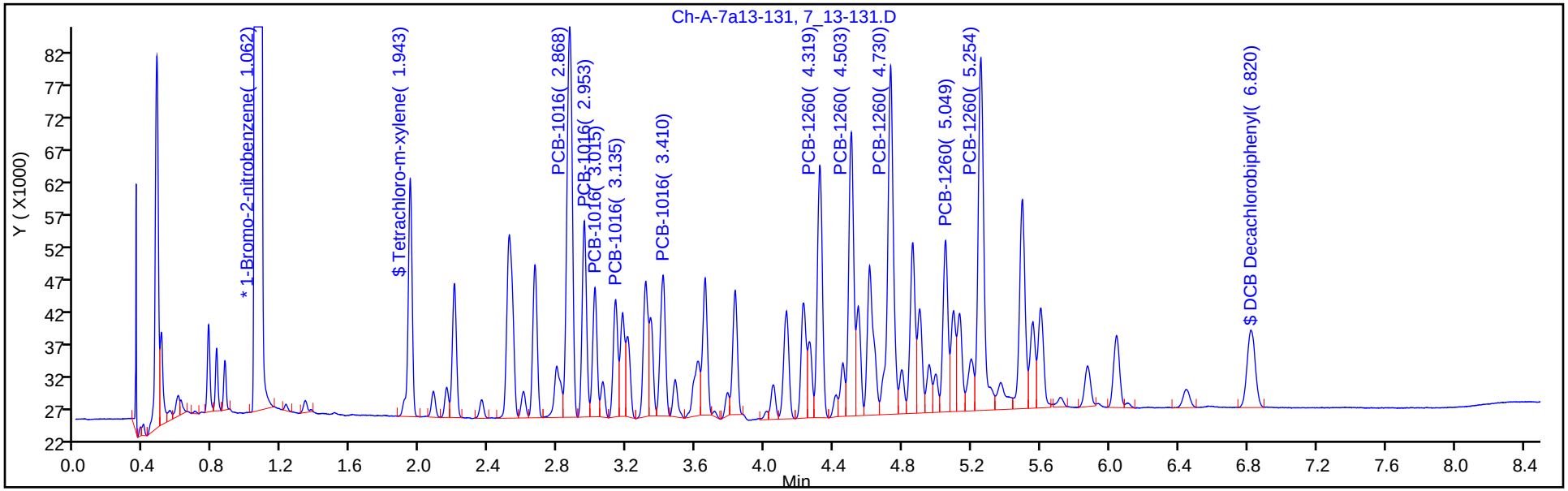
Report Date: 08-May-2018 12:38:52 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

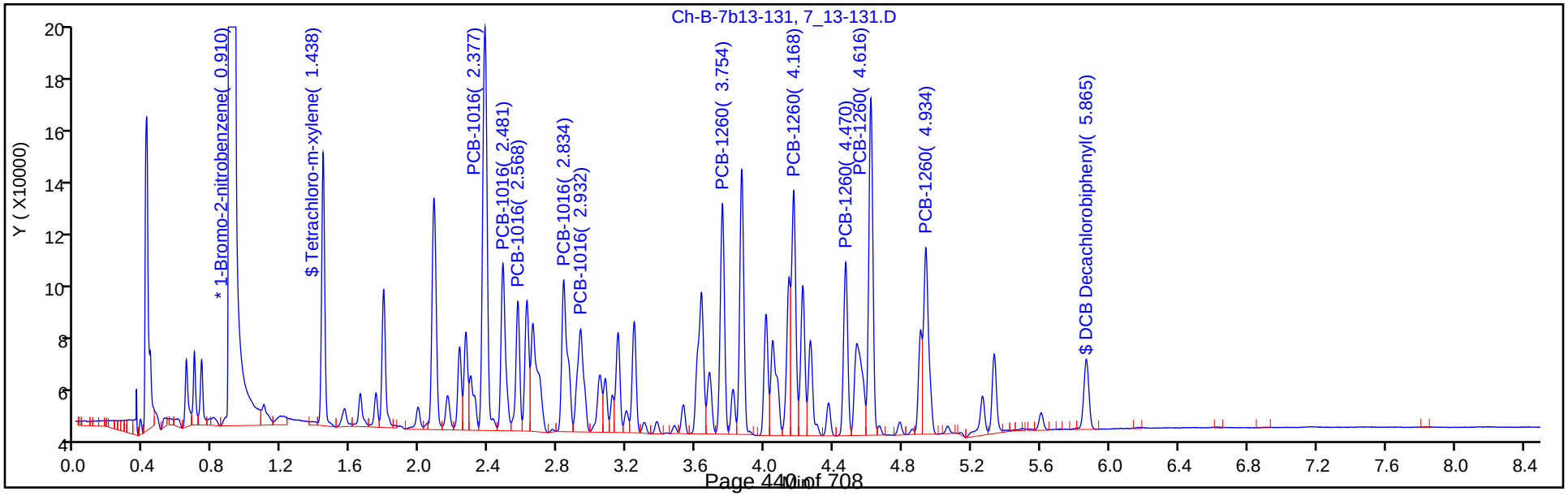
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-131.D

Injection Date:	07-May-2018 15:46:26	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-132.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-May-2018 16:02:16 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:38:54 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 07:00:50

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.063	1.063	0.000	10823908	0.5000	0.5000	
2	0.913	0.913	0.000	22989895	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.944	1.944	0.000	21897	0.000500	0.000582	
2	1.440	1.440	0.000	46644	0.000500	0.000634	
						RPD = 8.53	
9 PCB-1016							M
1	2.866	2.866	0.000	52040	0.0200	0.0226	
1	2.955	2.955	0.000	31463	0.0200	0.0194	
1	3.013	3.013	0.000	13798	0.0200	0.0226	
1	3.132	3.132	0.000	23385	0.0200	0.0157	M
1	3.410	3.410	0.000	19545	0.0200	0.0249	
		Average of Peak Amounts =				0.0211	
2	2.380	2.380	0.000	91679	0.0200	0.0229	
2	2.482	2.482	0.000	48180	0.0200	0.0262	
2	2.569	2.569	0.000	38736	0.0200	0.0156	
2	2.835	2.835	0.000	56324	0.0200	0.0265	
2	2.933	2.933	0.000	43472	0.0200	0.0139	
		Average of Peak Amounts =				0.0210	
						RPD = 0.23	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.319	4.319	0.000	34229	0.0200	0.0245	M
1	4.503	4.503	0.000	42242	0.0200	0.0269	M
1	4.730	4.730	0.000	68532	0.0200	0.0180	M
1	5.049	5.049	0.000	27125	0.0200	0.0177	M
1	5.252	5.252	0.000	66288	0.0200	0.0186	M
		Average of Peak Amounts =				0.0211	
2	3.754	3.754	0.000	60851	0.0200	0.0246	
2	4.168	4.168	0.000	69333	0.0200	0.0262	
2	4.470	4.470	0.000	48167	0.0200	0.0258	
2	4.617	4.617	0.000	101216	0.0200	0.0273	
2	4.933	4.933	0.000	66206	0.0200	0.0262	
		Average of Peak Amounts =				0.0260	
						RPD = 20.70	
$ 15 DCB Decachlorobiphenyl							M
1	6.826	6.826	0.000	22854	0.000500	0.000918	M
2	5.866	5.866	0.000	25454	0.000500	0.000706	
						RPD = 26.06	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00010 Amount Added: 1.00 Units: mL

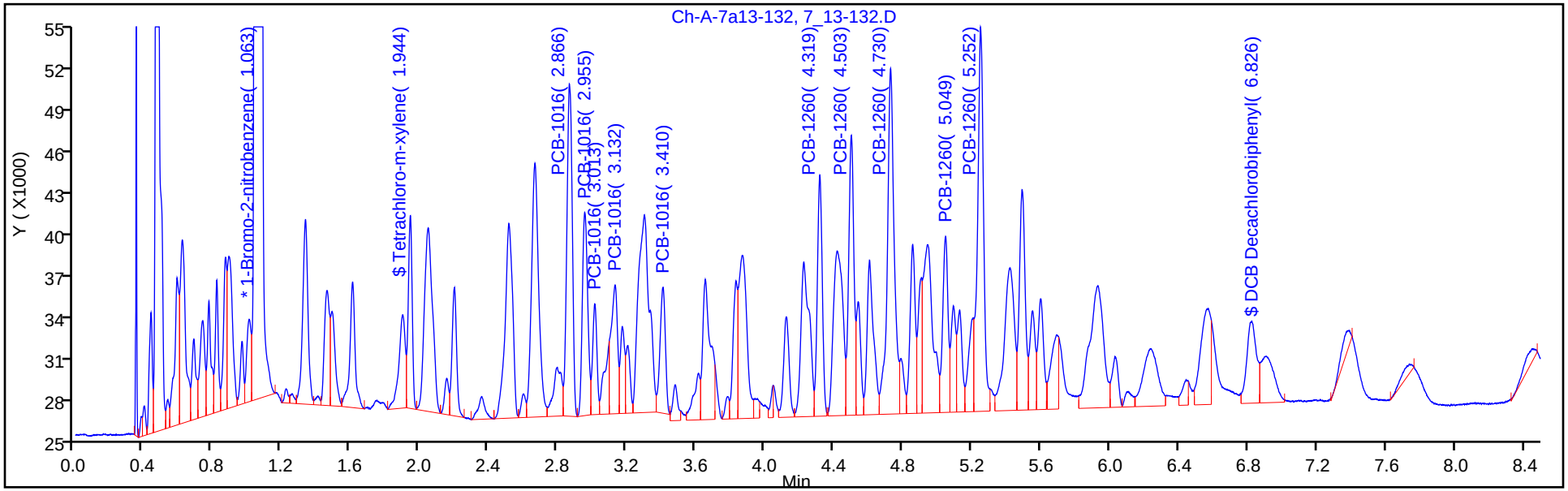
Report Date: 08-May-2018 12:38:55 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

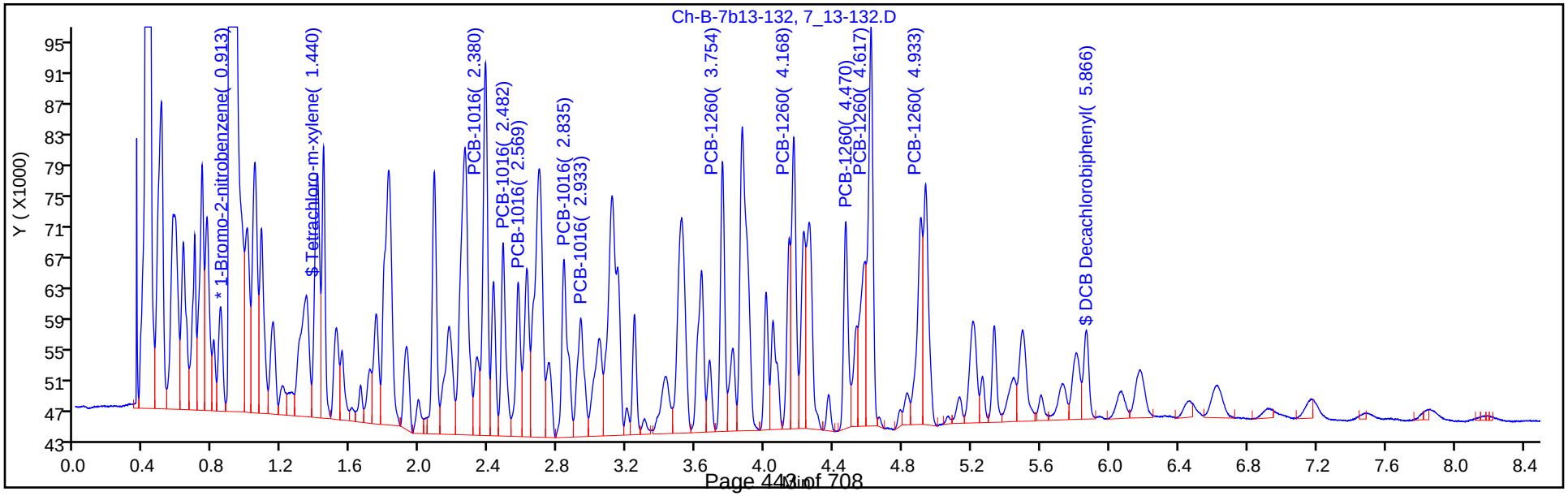
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-132.D

Injection Date:	07-May-2018 16:02:16	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 17:37 Calibration End Date: 05/07/2018 18:09 Calibration ID: 33765

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/18	7_13-140.D
Level 2	IC 480-413004/17	7_13-139.D
Level 3	IC 480-413004/16	7_13-138.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				B	M1	M2								
PCB-1221 Peak 2	0	0.0153	0.0120			Lin1	0.0033	0.0100							0.9960		0.9900
PCB-1221 Peak 1	0.0738	0.0100	0.0071			Lin1	0.0014	0.0066							0.9970		0.9900
PCB-1221 Peak 3	0.0260	0.0091	0.0072			Lin1	0.0004	0.0073							0.9950		0.9900
PCB-1221 Peak 4	0.0636	0.0328	0.0268			Lin1	0.0008	0.0273							0.9950		0.9900
PCB-1254 Peak 1	0.0931	0.0597	0.0531			Lin1	0.0009	0.0537							0.9980		0.9900
PCB-1254 Peak 2	0.0501	0.0416	0.0353			Ave		0.0423				17.5		20.0			
PCB-1254 Peak 3	0.0928	0.0749	0.0632			Ave		0.0770				19.3		20.0			
PCB-1254 Peak 4	0.0910	0.0771	0.0630			Ave		0.0770				18.2		20.0			
PCB-1254 Peak 5	0.1233	0.0570	0.0527			Lin1	0.0014	0.0524							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 17:37 Calibration End Date: 05/07/2018 18:09 Calibration ID: 33765

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/18	7_13-140.D
Level 2	IC 480-413004/17	7_13-139.D
Level 3	IC 480-413004/16	7_13-138.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 2	BNB	Lin1	0	175609	660584			0.0200	0.500	2.00		
PCB-1221 Peak 1	BNB	Lin1	33297	114841	392418			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	11740	104101	399421			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	28687	377103	1477679			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	41999	685908	2930435			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Ave	22595	478063	1949230			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Ave	41865	861146	3490666			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Ave	41038	886106	3476258			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	55626	654960	2909765			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-138.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-May-2018 17:37:51 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:36 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 11:37:15

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.063	0.000	13797169	0.5000	0.5000	
2	0.911	0.913	-0.001	30205422	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.503	1.496	0.007	392418	2.00	1.95	
1	2.078	2.078	0.000	660584	2.00	2.06	
1	2.153	2.153	0.001	399421	2.00	1.93	
1	2.199	2.198	0.001	1477679	2.00	1.93	
		Average of Peak Amounts =				1.97	
2	1.190	1.192	-0.002	767807	2.00	1.91	
2	1.653	1.653	0.000	1363019	2.00	1.94	
2	1.744	1.744	0.000	819399	2.00	2.06	
2	1.789	1.818	-0.029	2953171	2.00	2.03	
		Average of Peak Amounts =				1.99	
						RPD = 0.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.828	3.830	-0.002	2930435	2.00	1.96	
1	4.050	4.048	0.002	1949230	2.00	1.67	
1	4.128	4.128	0.000	3490666	2.00	1.64	
1	4.328	4.326	0.002	3476258	2.00	1.64	
1	4.731	4.730	0.001	2909765	2.00	1.98	
		Average of Peak Amounts =				1.78	
2	3.243	3.243	0.000	4182515	2.00	1.92	
2	3.610	3.611	-0.001	6958600	2.00	1.64	
2	3.748	3.748	0.000	6999229	2.00	1.64	
2	4.042	4.041	0.001	4033985	2.00	1.65	
2	4.168	4.168	0.000	5738030	2.00	1.96	
		Average of Peak Amounts =				1.76	
						RPD = 0.96	

Reagents:

21-54w/IS@2.0_00009 Amount Added: 1.00 Units: mL

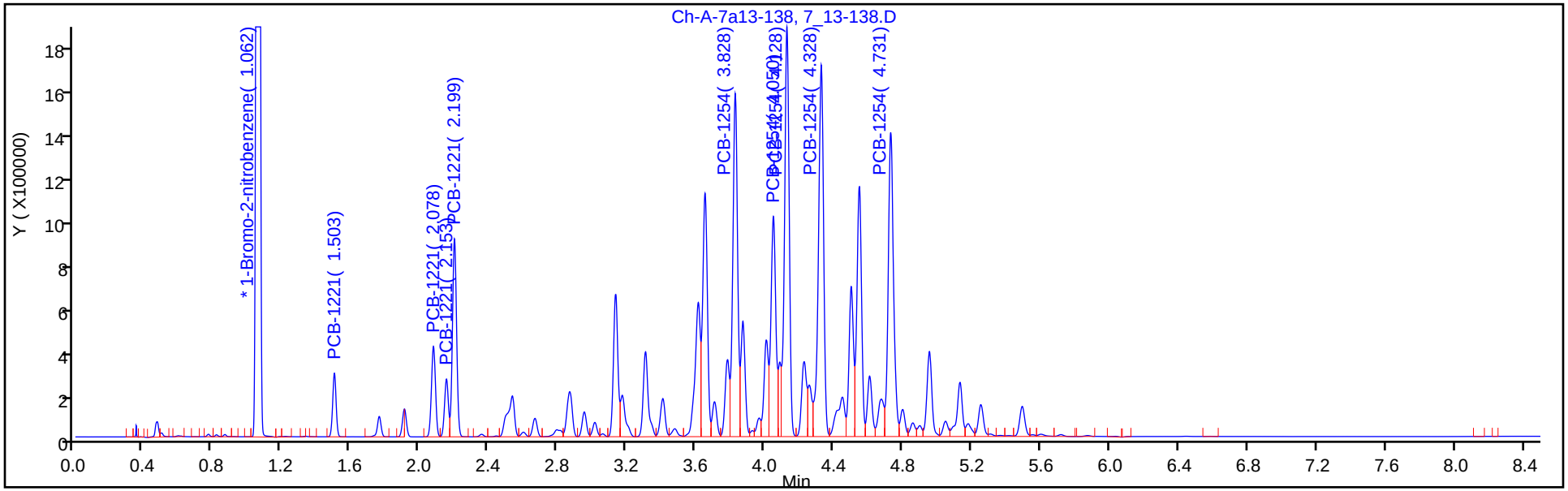
Report Date: 08-May-2018 12:39:36 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

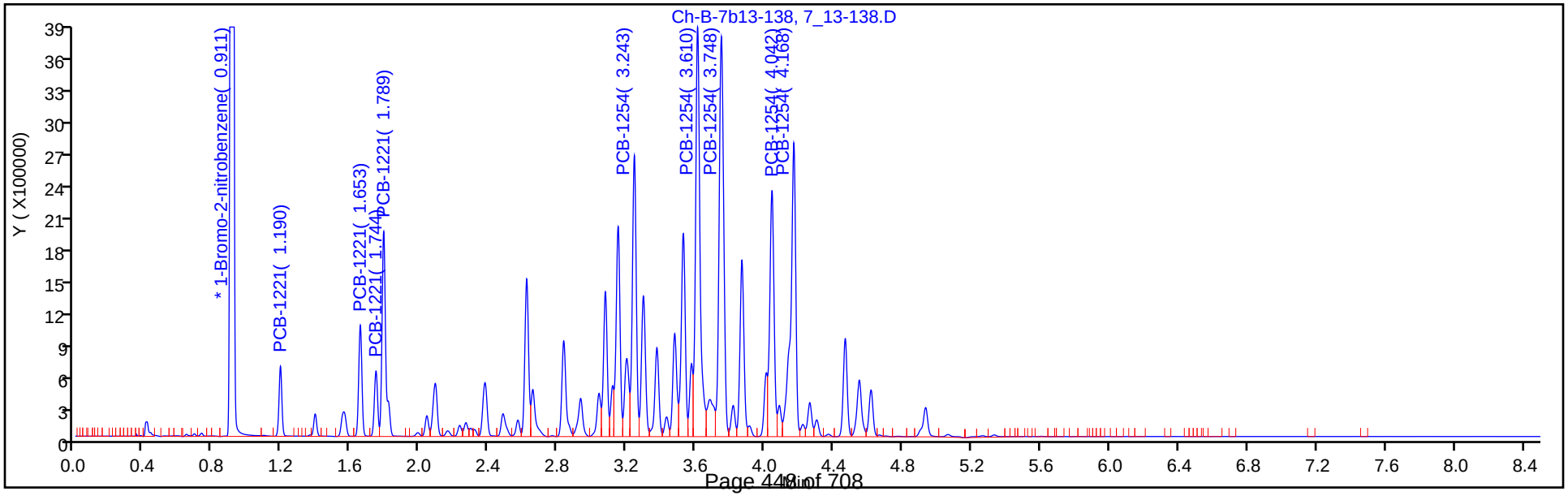
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-138.D

Injection Date:	07-May-2018 17:37:51	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-139.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-May-2018 17:53:53 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:39 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 11:45:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.063	1.063	0.000	11491140	0.5000	0.5000	
2	0.911	0.913	-0.001	25655121	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.503	1.496	0.007	114841	0.5000	0.5519	
1	2.080	2.078	0.002	175609	0.5000	0.4351	
1	2.154	2.153	0.002	104101	0.5000	0.5683	
1	2.200	2.198	0.002	377103	0.5000	0.5716	
		Average of Peak Amounts =				0.5317	
2	1.191	1.192	-0.001	216194	0.5000	0.5903	
2	1.653	1.653	0.000	341088	0.5000	0.5597	
2	1.744	1.744	0.000	183061	0.5000	0.4345	
2	1.788	1.818	-0.030	675193	0.5000	0.4658	
		Average of Peak Amounts =				0.5126	
						RPD = 3.68	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.828	3.830	-0.002	685908	0.5000	0.5398	
1	4.049	4.048	0.001	478063	0.5000	0.4913	
1	4.129	4.128	0.001	861146	0.5000	0.4866	
1	4.328	4.326	0.002	886106	0.5000	0.5006	
1	4.732	4.730	0.002	654960	0.5000	0.5162	
		Average of Peak Amounts =				0.5069	
2	3.243	3.243	-0.001	1082599	0.5000	0.5781	
2	3.610	3.611	-0.001	1775077	0.5000	0.4913	
2	3.748	3.748	0.000	1776861	0.5000	0.4899	
2	4.042	4.041	0.001	1035273	0.5000	0.4992	
2	4.168	4.168	0.000	1386359	0.5000	0.5448	
		Average of Peak Amounts =				0.5207	
						RPD = 2.68	

Reagents:

21-54w/IS@0.5_00021 Amount Added: 1.00 Units: mL

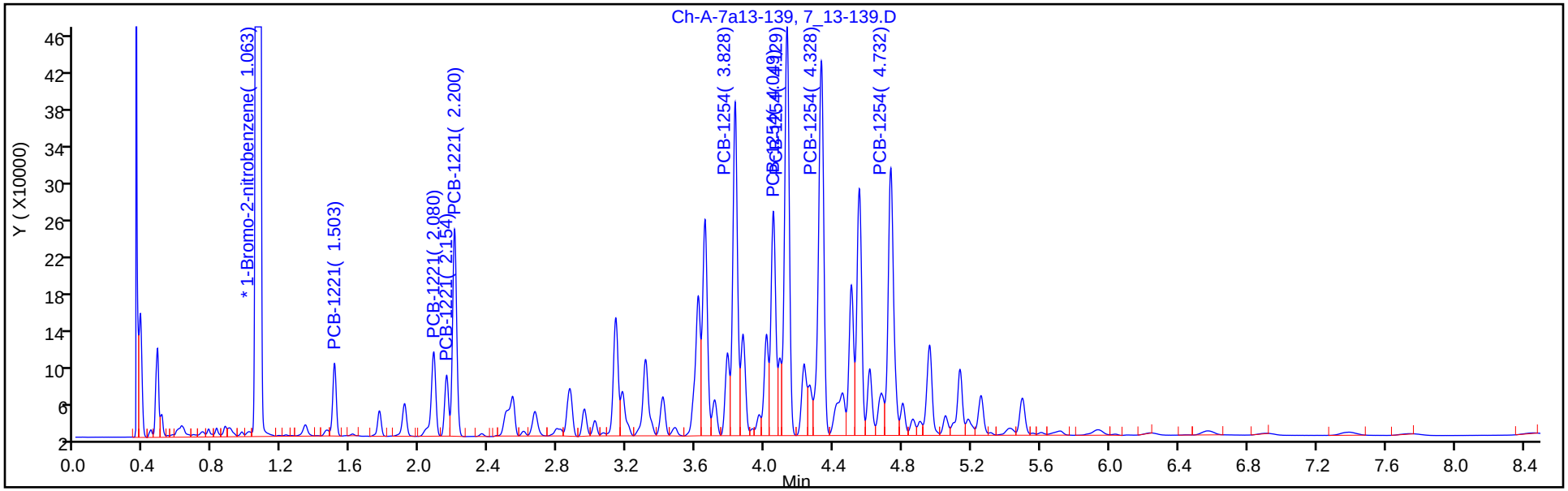
Report Date: 08-May-2018 12:39:39 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

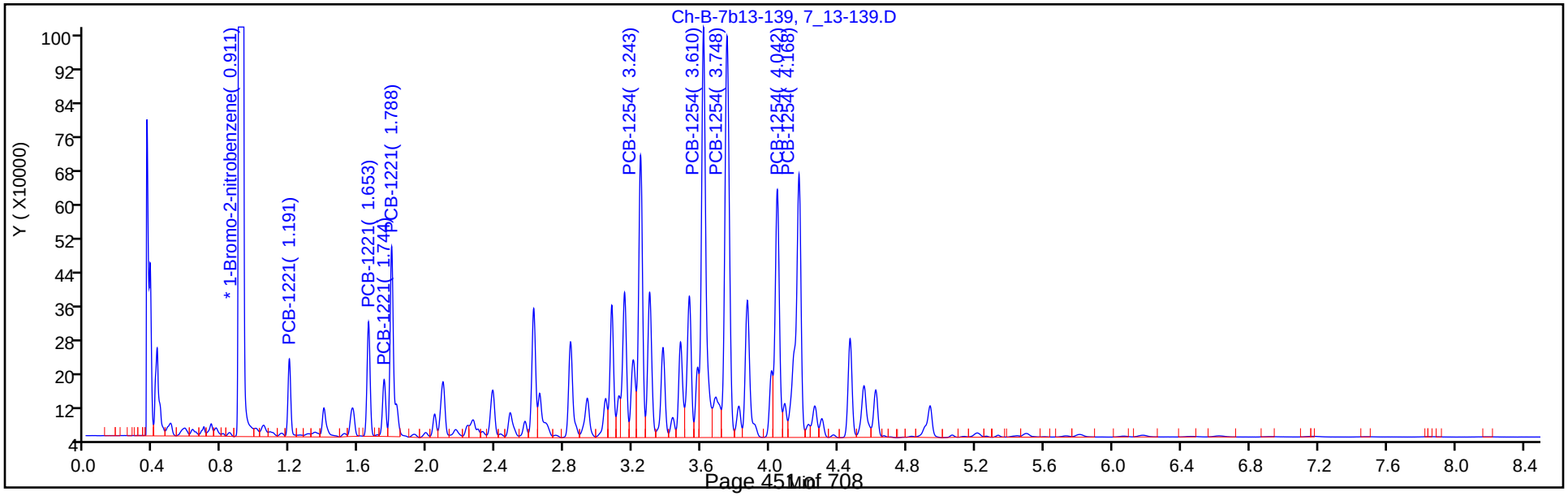
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-139.D

Injection Date:	07-May-2018 17:53:53	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-140.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-May-2018 18:09:43 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:42 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.061	1.061	0.000	11276538	0.5000	0.5000	
2	0.911	0.911	0.000	24029511	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.496	1.496	0.000	33297	0.0200	0.0184	
1	0.000	2.078	-2.078	0	0.0200	0	
1	2.153	2.153	0.000	11740	0.0200	0.0179	
1	2.198	2.198	0.000	28687	0.0200	0.0178	
		Average of Peak Amounts =				0.0181	
2	1.192	1.192	0.000	25509	0.0200	0.0173	
2	1.653	1.653	0.000	19908	0.0200	0.0182	
2	1.744	1.744	0.000	49830	0.0200	0.0220	
2	1.818	1.818	0.000	145263	0.0200	0.0210	
		Average of Peak Amounts =				0.0196	
						RPD = 8.27	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.830	3.830	0.000	41999	0.0200	0.0188	
1	4.048	4.048	0.000	22595	0.0200	0.0237	
1	4.128	4.128	0.000	41865	0.0200	0.0241	
1	4.326	4.326	0.000	41038	0.0200	0.0236	
1	4.730	4.730	0.000	55626	0.0200	0.0195	
		Average of Peak Amounts =				0.0219	
2	3.243	3.243	0.000	50870	0.0200	0.0176	
2	3.611	3.611	0.000	81182	0.0200	0.0240	
2	3.748	3.748	0.000	81577	0.0200	0.0240	
2	4.041	4.041	0.000	45663	0.0200	0.0235	
2	4.168	4.168	0.000	80972	0.0200	0.0186	
		Average of Peak Amounts =				0.0216	
						RPD = 1.76	

Reagents:

21-54w/IS@.02_00008 Amount Added: 1.00 Units: mL

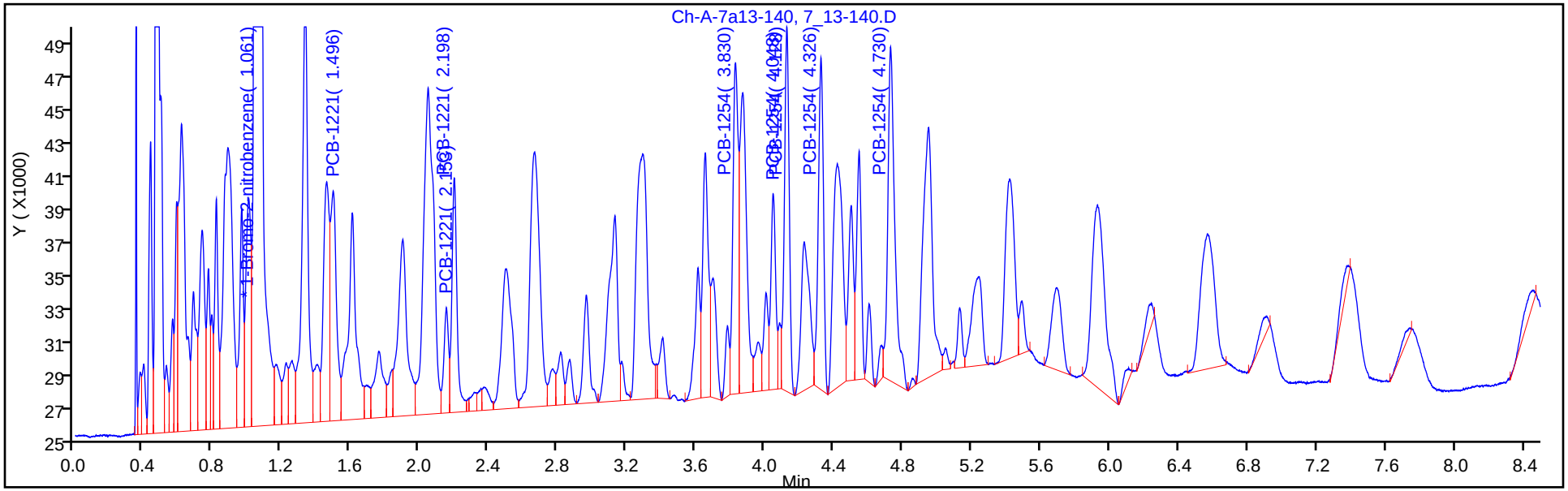
Report Date: 08-May-2018 12:39:42 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

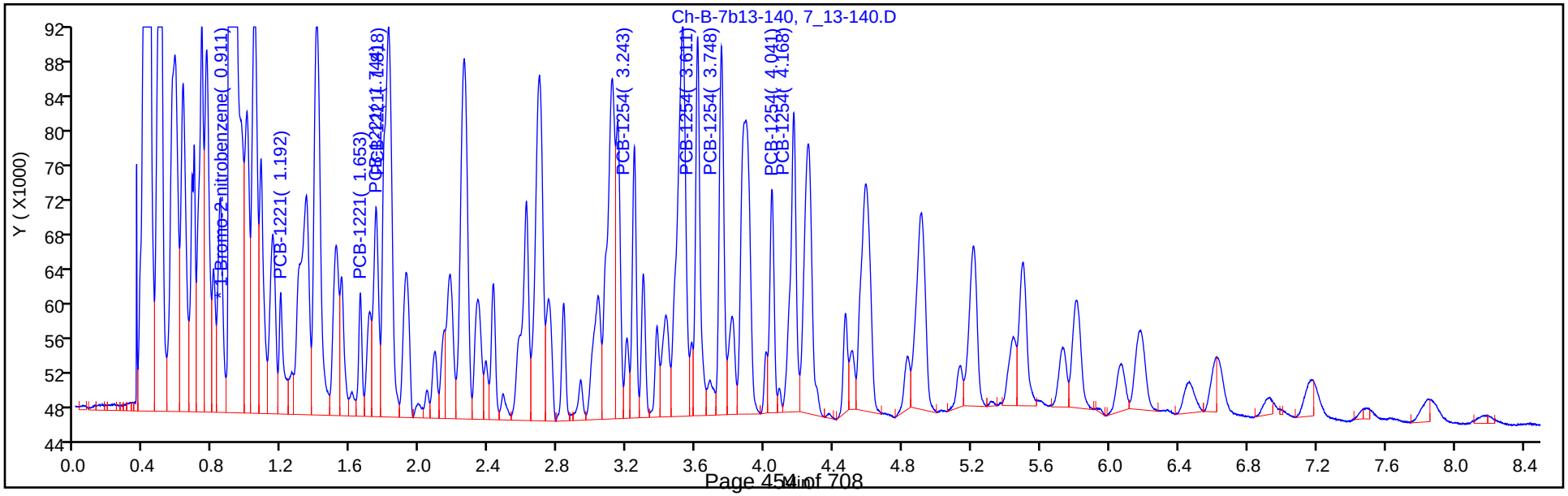
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-140.D

Injection Date:	07-May-2018 18:09:43	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 17:37 Calibration End Date: 05/07/2018 18:09 Calibration ID: 33766

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/18	7_13-140.D
Level 2	IC 480-413004/17	7_13-139.D
Level 3	IC 480-413004/16	7_13-138.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				B	M1	M2								
PCB-1221 Peak 1	0.0265	0.0084	0.0064			Lin1	0.0004	0.0064							0.9910		0.9900
PCB-1221 Peak 2	0.0207	0.0133	0.0113			Lin1	0.0002	0.0115							0.9960		0.9900
PCB-1221 Peak 3	0.0518	0.0071	0.0068			Lin1	0.0009	0.0061							0.9950		0.9900
PCB-1221 Peak 4	0.1511	0.0263	0.0244			Lin1	0.0025	0.0228							0.9990		0.9900
PCB-1254 Peak 1	0.0529	0.0422	0.0346			Lin1	0.0004	0.0358							0.9940		0.9900
PCB-1254 Peak 2	0.0845	0.0692	0.0576			Ave		0.0704				19.1		20.0			
PCB-1254 Peak 3	0.0849	0.0693	0.0579			Ave		0.0707				19.1		20.0			
PCB-1254 Peak 4	0.0475	0.0404	0.0334			Ave		0.0404				17.5		20.0			
PCB-1254 Peak 5	0.0842	0.0540	0.0475			Lin1	0.0008	0.0481							0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 17:37 Calibration End Date: 05/07/2018 18:09 Calibration ID: 33766

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/18	7_13-140.D
Level 2	IC 480-413004/17	7_13-139.D
Level 3	IC 480-413004/16	7_13-138.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	25509	216194	767807			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	19908	341088	1363019			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	49830	183061	819399			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	145263	675193	2953171			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	50870	1082599	4182515			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Ave	81182	1775077	6958600			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Ave	81577	1776861	6999229			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Ave	45663	1035273	4033985			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	80972	1386359	5738030			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-138.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-May-2018 17:37:51 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:36 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 11:37:15

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.063	0.000	13797169	0.5000	0.5000	
2	0.911	0.913	-0.001	30205422	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.503	1.496	0.007	392418	2.00	1.95	
1	2.078	2.078	0.000	660584	2.00	2.06	
1	2.153	2.153	0.001	399421	2.00	1.93	
1	2.199	2.198	0.001	1477679	2.00	1.93	
		Average of Peak Amounts =				1.97	
2	1.190	1.192	-0.002	767807	2.00	1.91	
2	1.653	1.653	0.000	1363019	2.00	1.94	
2	1.744	1.744	0.000	819399	2.00	2.06	
2	1.789	1.818	-0.029	2953171	2.00	2.03	
		Average of Peak Amounts =				1.99	
						RPD = 0.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.828	3.830	-0.002	2930435	2.00	1.96	
1	4.050	4.048	0.002	1949230	2.00	1.67	
1	4.128	4.128	0.000	3490666	2.00	1.64	
1	4.328	4.326	0.002	3476258	2.00	1.64	
1	4.731	4.730	0.001	2909765	2.00	1.98	
		Average of Peak Amounts =				1.78	
2	3.243	3.243	0.000	4182515	2.00	1.92	
2	3.610	3.611	-0.001	6958600	2.00	1.64	
2	3.748	3.748	0.000	6999229	2.00	1.64	
2	4.042	4.041	0.001	4033985	2.00	1.65	
2	4.168	4.168	0.000	5738030	2.00	1.96	
		Average of Peak Amounts =				1.76	
						RPD = 0.96	

Reagents:

21-54w/IS@2.0_00009 Amount Added: 1.00 Units: mL

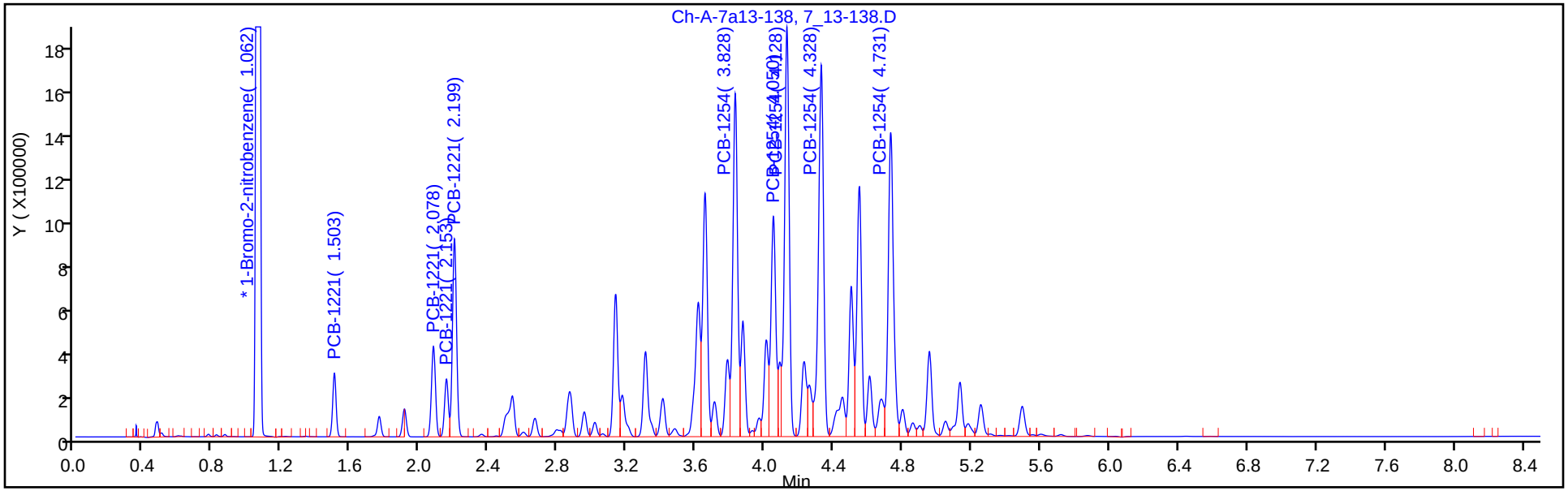
Report Date: 08-May-2018 12:39:36 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

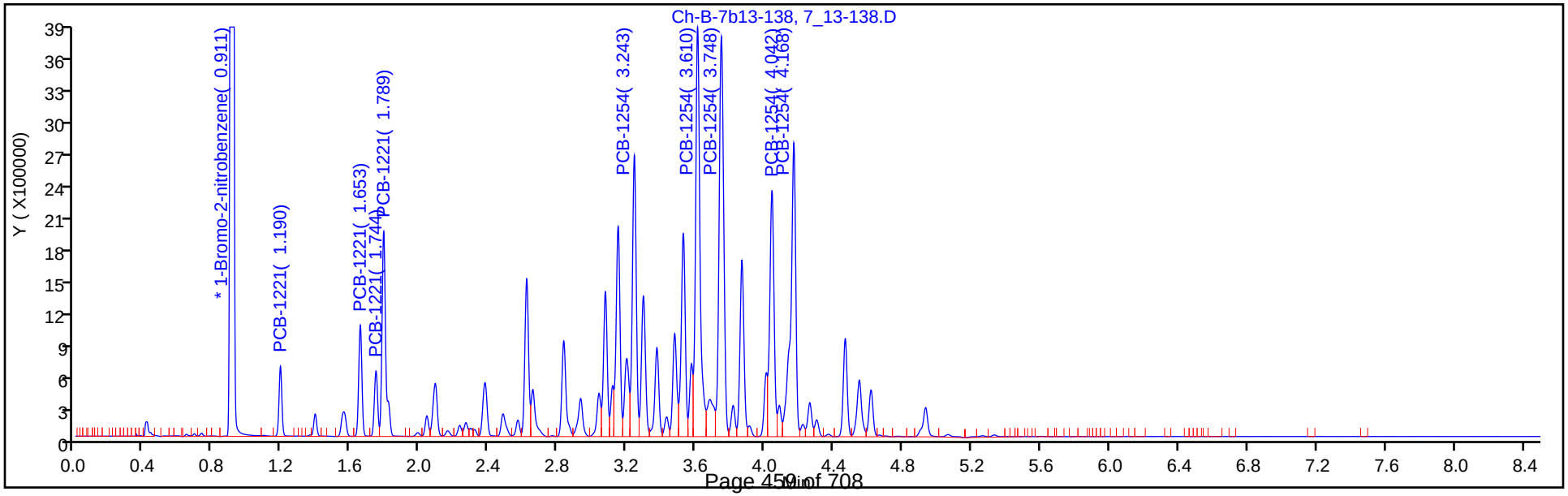
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-138.D

Injection Date:	07-May-2018 17:37:51	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-139.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-May-2018 17:53:53 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:39 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 11:45:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.063	1.063	0.000	11491140	0.5000	0.5000	
2	0.911	0.913	-0.001	25655121	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.503	1.496	0.007	114841	0.5000	0.5519	
1	2.080	2.078	0.002	175609	0.5000	0.4351	
1	2.154	2.153	0.002	104101	0.5000	0.5683	
1	2.200	2.198	0.002	377103	0.5000	0.5716	
		Average of Peak Amounts =				0.5317	
2	1.191	1.192	-0.001	216194	0.5000	0.5903	
2	1.653	1.653	0.000	341088	0.5000	0.5597	
2	1.744	1.744	0.000	183061	0.5000	0.4345	
2	1.788	1.818	-0.030	675193	0.5000	0.4658	
		Average of Peak Amounts =				0.5126	
						RPD = 3.68	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.828	3.830	-0.002	685908	0.5000	0.5398	
1	4.049	4.048	0.001	478063	0.5000	0.4913	
1	4.129	4.128	0.001	861146	0.5000	0.4866	
1	4.328	4.326	0.002	886106	0.5000	0.5006	
1	4.732	4.730	0.002	654960	0.5000	0.5162	
		Average of Peak Amounts =				0.5069	
2	3.243	3.243	-0.001	1082599	0.5000	0.5781	
2	3.610	3.611	-0.001	1775077	0.5000	0.4913	
2	3.748	3.748	0.000	1776861	0.5000	0.4899	
2	4.042	4.041	0.001	1035273	0.5000	0.4992	
2	4.168	4.168	0.000	1386359	0.5000	0.5448	
		Average of Peak Amounts =				0.5207	
						RPD = 2.68	

Reagents:

21-54w/IS@0.5_00021 Amount Added: 1.00 Units: mL

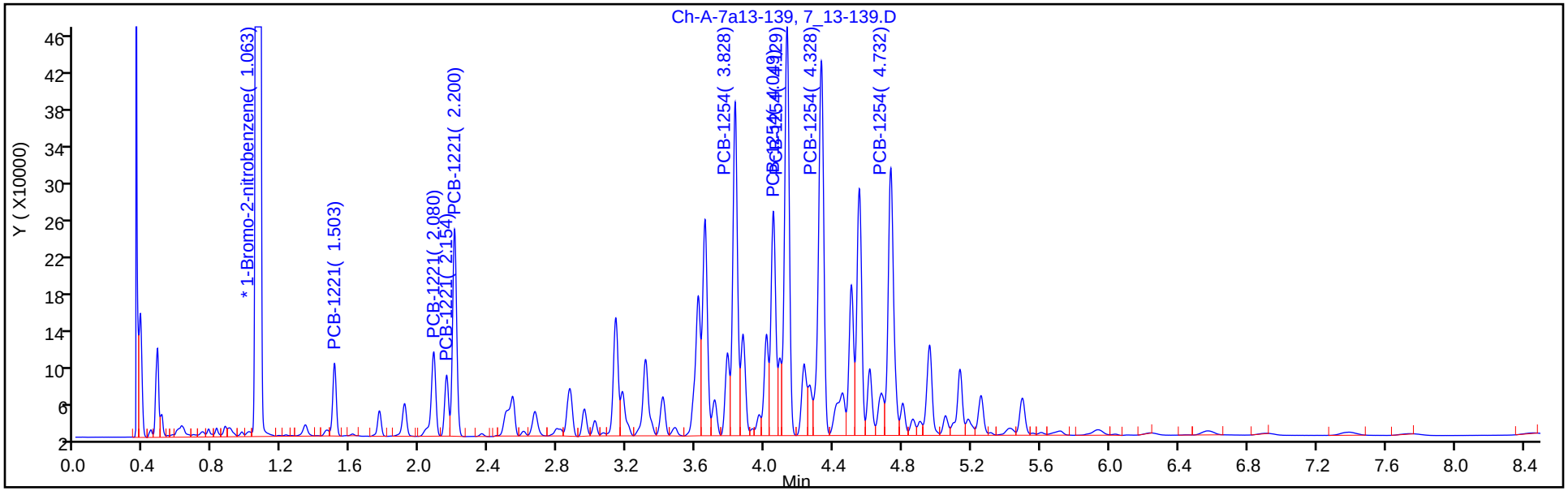
Report Date: 08-May-2018 12:39:40 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

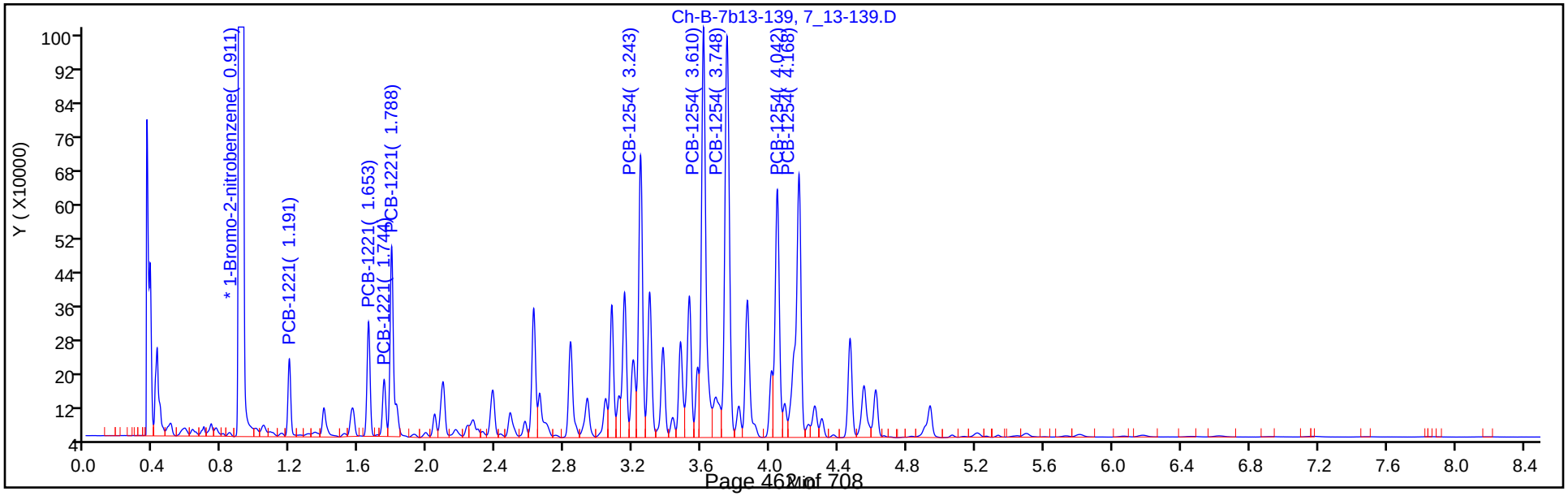
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-139.D

Injection Date:	07-May-2018 17:53:53	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-140.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-May-2018 18:09:43 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:42 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.061	1.061	0.000	11276538	0.5000	0.5000	
2	0.911	0.911	0.000	24029511	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.496	1.496	0.000	33297	0.0200	0.0184	
1	0.000	2.078	-2.078	0	0.0200	0	
1	2.153	2.153	0.000	11740	0.0200	0.0179	
1	2.198	2.198	0.000	28687	0.0200	0.0178	
		Average of Peak Amounts =				0.0181	
2	1.192	1.192	0.000	25509	0.0200	0.0173	
2	1.653	1.653	0.000	19908	0.0200	0.0182	
2	1.744	1.744	0.000	49830	0.0200	0.0220	
2	1.818	1.818	0.000	145263	0.0200	0.0210	
		Average of Peak Amounts =				0.0196	
						RPD = 8.27	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.830	3.830	0.000	41999	0.0200	0.0188	
1	4.048	4.048	0.000	22595	0.0200	0.0237	
1	4.128	4.128	0.000	41865	0.0200	0.0241	
1	4.326	4.326	0.000	41038	0.0200	0.0236	
1	4.730	4.730	0.000	55626	0.0200	0.0195	
		Average of Peak Amounts =				0.0219	
2	3.243	3.243	0.000	50870	0.0200	0.0176	
2	3.611	3.611	0.000	81182	0.0200	0.0240	
2	3.748	3.748	0.000	81577	0.0200	0.0240	
2	4.041	4.041	0.000	45663	0.0200	0.0235	
2	4.168	4.168	0.000	80972	0.0200	0.0186	
		Average of Peak Amounts =				0.0216	
						RPD = 1.76	

Reagents:

21-54w/IS@.02_00008 Amount Added: 1.00 Units: mL

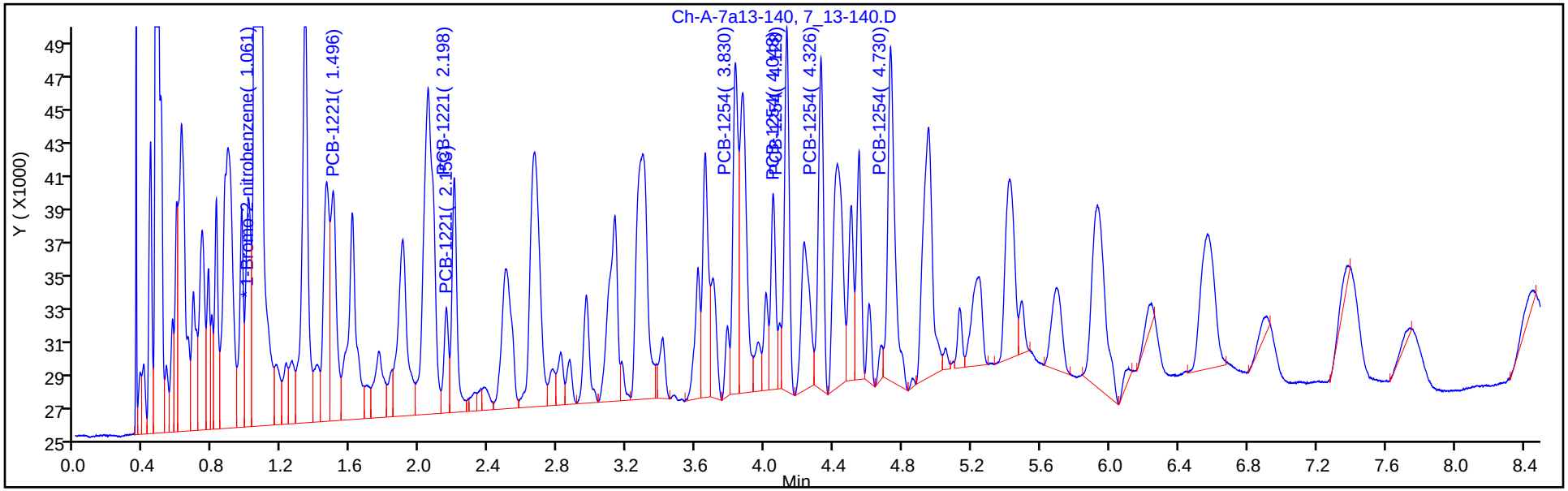
Report Date: 08-May-2018 12:39:42 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

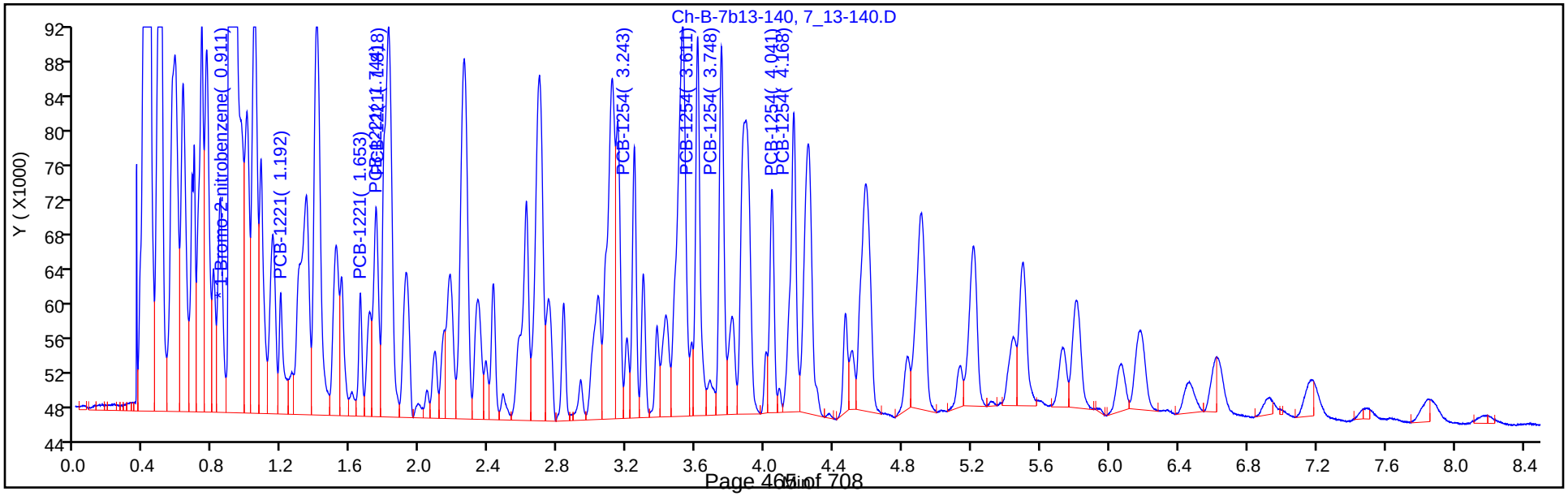
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-140.D

Injection Date:	07-May-2018 18:09:43	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 18:41 Calibration End Date: 05/07/2018 19:13 Calibration ID: 33771

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/22	7_13-144.D
Level 2	IC 480-413004/21	7_13-143.D
Level 3	IC 480-413004/20	7_13-142.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				B	M1	M2								
PCB-1232 Peak 1	0.0574	0.0259	0.0220			Lin1	0.0007	0.0222							0.9970		0.9900
PCB-1232 Peak 2	0.1492	0.0162	0.0117			Lin1	0.0028	0.0104							1.0000		0.9900
PCB-1232 Peak 3	0.0645	0.0454	0.0399			Lin1	0.0005	0.0405							0.9980		0.9900
PCB-1232 Peak 4	0.0514	0.0179	0.0151			Lin1	0.0007	0.0151							0.9980		0.9900
PCB-1232 Peak 5	0.0183	0.0124	0.0104			Lin1	0.0002	0.0107							0.9950		0.9900
PCB-1262 Peak 1	0.0658	0.0450	0.0357			Lin1	0.0007	0.0370							0.9910		0.9900
PCB-1262 Peak 2	0.0966	0.0485	0.0400			Lin1	0.0012	0.0407							0.9950		0.9900
PCB-1262 Peak 3	0.1180	0.0425	0.0355			Lin1	0.0017	0.0355							0.9970		0.9900
PCB-1262 Peak 4	0.1027	0.0699	0.0524			Qua	0.0006	0.0744	-0.011137						1.0000		0.9900
PCB-1262 Peak 5	0.0943	0.0529	0.0393			Lin	0.0039	0.0378							0.9930		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 18:41 Calibration End Date: 05/07/2018 19:13 Calibration ID: 33771

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/22	7_13-144.D
Level 2	IC 480-413004/21	7_13-143.D
Level 3	IC 480-413004/20	7_13-142.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	25452	282305	1151360			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	66178	176259	614165			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	28599	494234	2086823			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	22790	194501	791581			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	8129	135136	545109			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Lin1	29216	489919	1869735			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	42847	527331	2092587			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Lin1	52366	462445	1858906			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Qua	45581	761040	2742348			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Lin	41851	575365	2059845			0.0200	0.500	2.00		

Curve Type Legend:

Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-142.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-May-2018 18:41:35 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:50 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 06:56:06

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.062	1.061	0.001	13089286	0.5000	0.5000	M
2	0.911	0.911	0.000	29247513	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.199	2.199	0.000	1151360	2.00	1.95	M
1	2.667	2.666	0.001	614165	2.00	1.99	M
1	2.868	2.868	0.000	2086823	2.00	1.95	M
1	2.953	2.958	-0.006	791581	2.00	1.96	M
1	3.013	3.013	0.000	545109	2.00	1.94	M
		Average of Peak Amounts =				1.96	
2	1.790	1.818	-0.028	2358345	2.00	2.01	
2	2.083	2.083	0.000	2148773	2.00	1.94	
2	2.378	2.380	-0.002	4182849	2.00	1.83	
2	2.481	2.482	-0.001	1641464	2.00	1.70	
2	2.835	2.834	0.001	1830381	2.00	1.95	
		Average of Peak Amounts =				1.89	
						RPD = 3.73	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	4.319	4.320	-0.001	1869735	2.00	1.91	M
1	4.503	4.501	0.001	2092587	2.00	1.94	M
1	4.729	4.731	-0.002	1858906	2.00	1.95	M
1	4.859	4.858	0.001	2742348	2.00	2.00	M
1	5.049	5.049	0.000	2059845	2.00	1.98	M
		Average of Peak Amounts =				1.96	
2	3.756	3.755	0.001	3692678	2.00	1.93	
2	4.471	4.471	0.000	4655696	2.00	1.93	
2	4.616	4.615	0.001	9833053	2.00	1.99	
2	4.904	4.904	0.000	4104364	2.00	2.01	
2	4.938	4.936	0.002	6087093	2.00	1.94	
		Average of Peak Amounts =				1.96	
						RPD = 0.27	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00008 Amount Added: 1.00 Units: mL

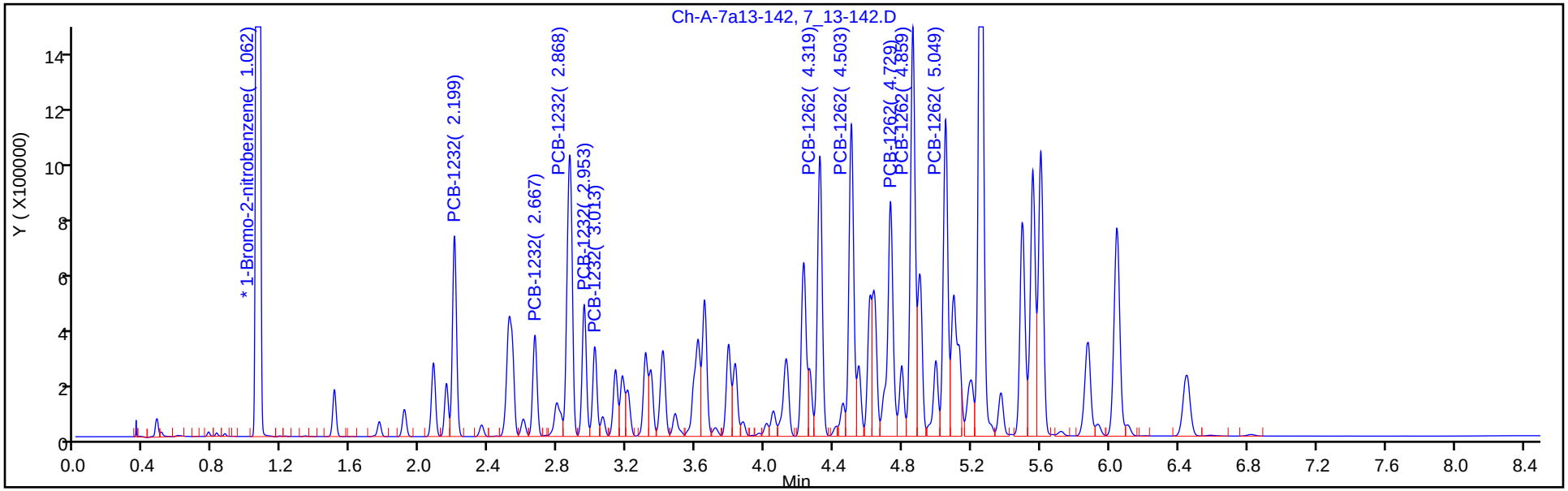
Report Date: 08-May-2018 12:39:50 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

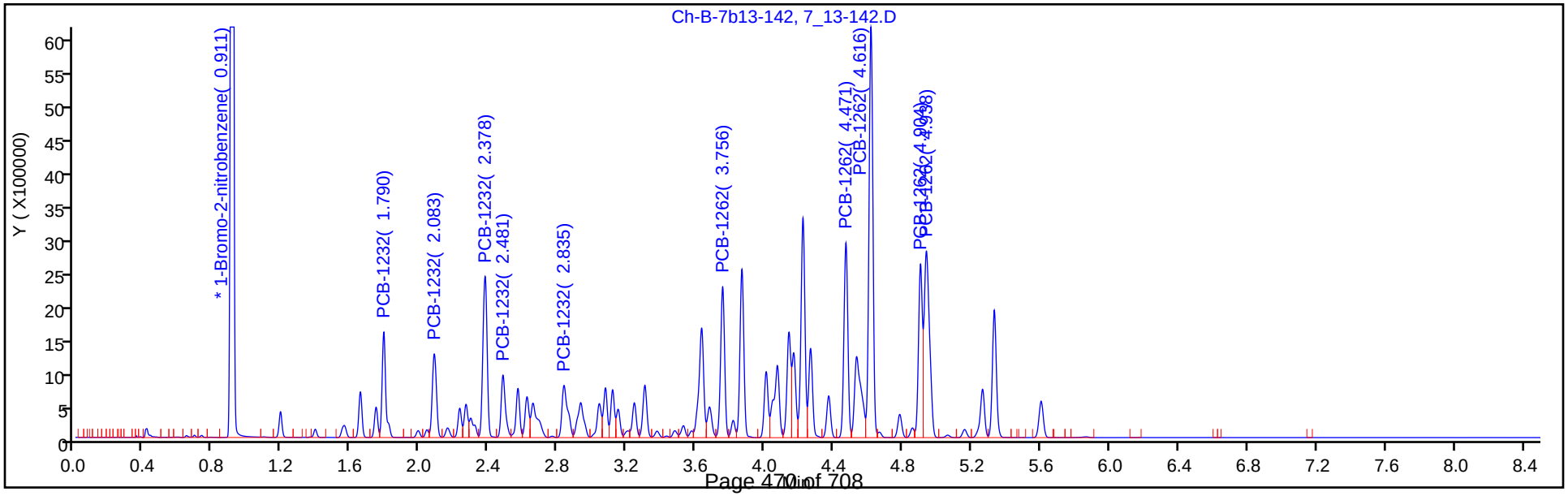
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-142.D

Injection Date:	07-May-2018 18:41:35	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

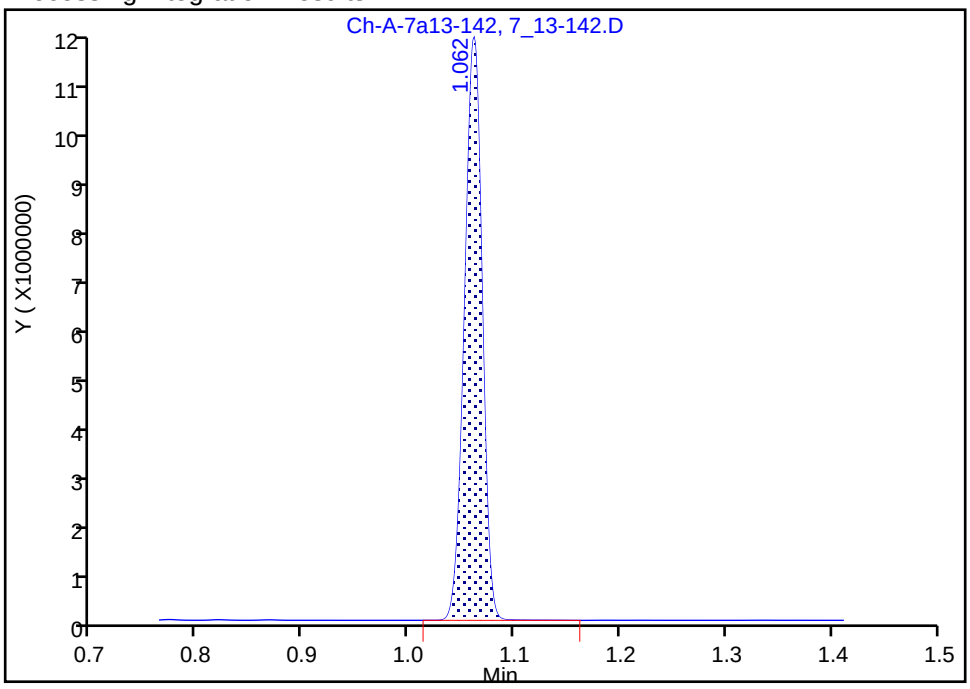
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-142.D
Injection Date: 07-May-2018 18:41:35 Instrument ID: HP6890-7
Lims ID: IC 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

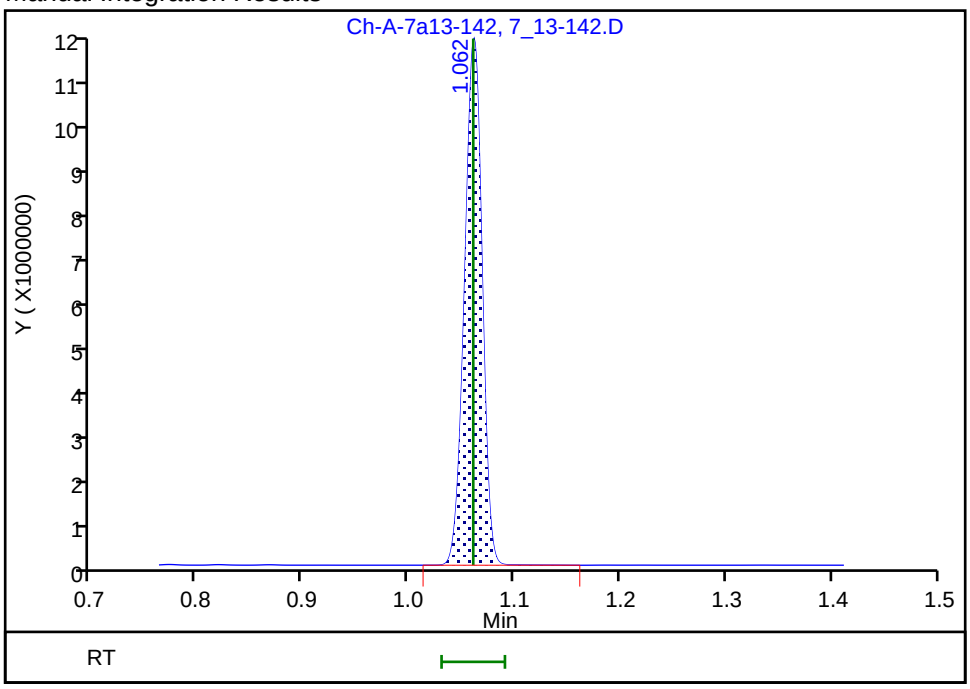
Processing Integration Results

RT: 1.06
Area: 13090318
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.06
Area: 13089286
Amount: 0.500000
Amount Units: ng/uL



Reviewer: salversonj, 08-May-2018 12:24:07
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Report Date: 08-May-2018 12:39:50 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-142.D

Injection Date: 07-May-2018 18:41:35 Instrument ID: HP6890-7

Lims ID: IC 3

Client ID:

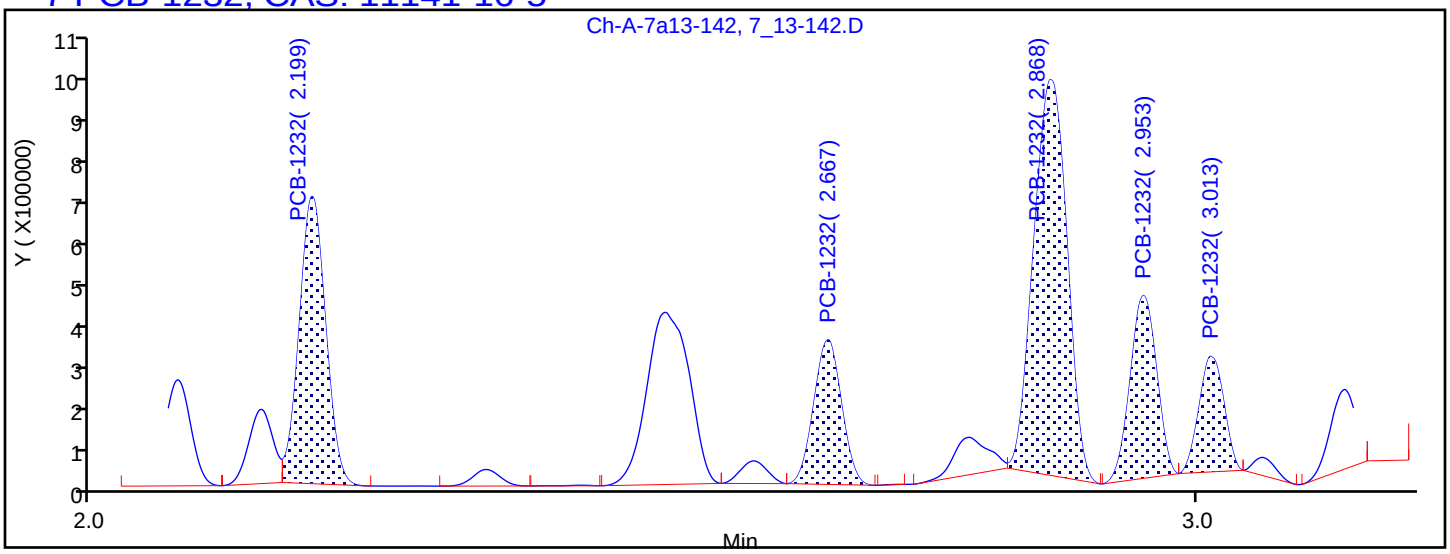
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

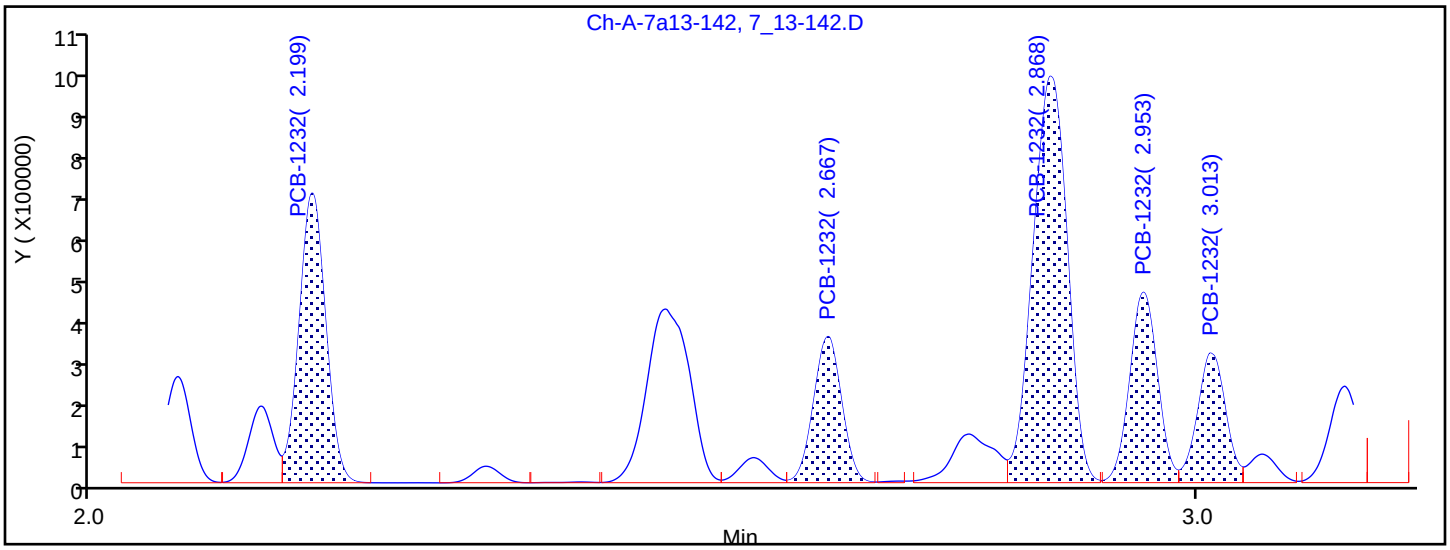
Column: Detector Ch-A-7A136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.199	Response = 1131807
2.667	Response = 597324
2.868	Response = 1967653
2.953	Response = 721043
3.013	Response = 428853



Manual Integration Results

2.199	Response = 1151360	M
2.667	Response = 614165	M
2.868	Response = 2086823	M
2.953	Response = 791581	M
3.013	Response = 545109	M

Reviewer: salversonj, 08-May-2018 12:24:07

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Report Date: 08-May-2018 12:39:51 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-142.D

Injection Date: 07-May-2018 18:41:35 Instrument ID: HP6890-7

Lims ID: IC 3

Client ID:

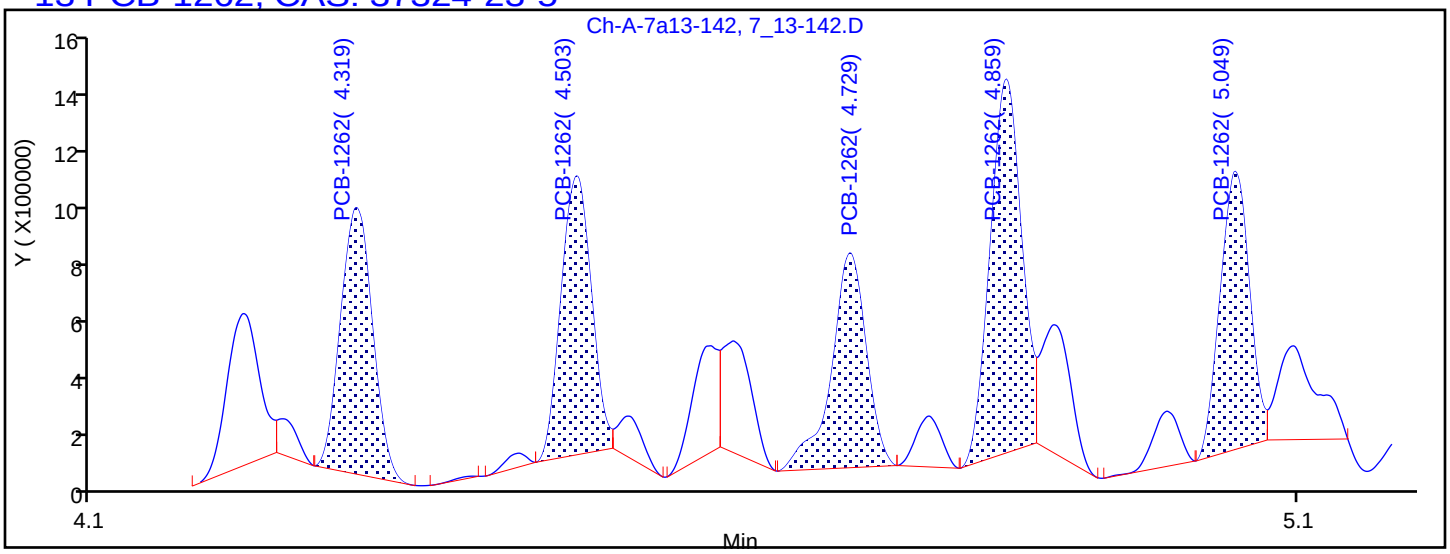
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

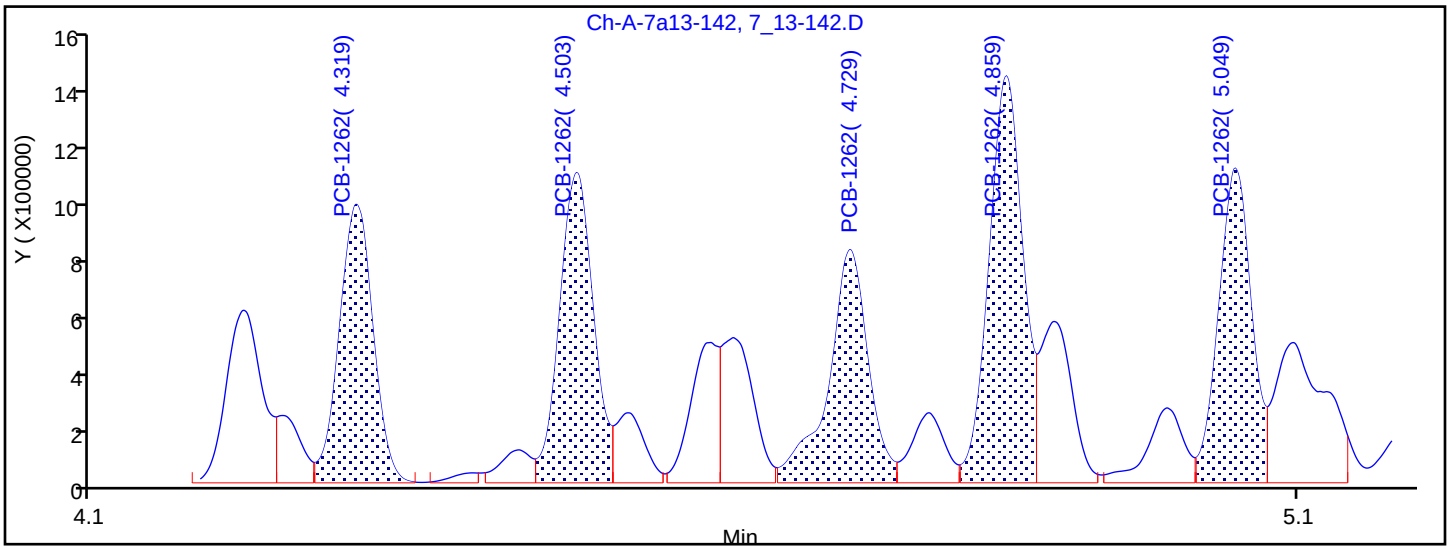
Column: Detector Ch-A-7A136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.319	Response = 1691195
4.503	Response = 1682135
4.729	Response = 1493213
4.859	Response = 2341639
5.049	Response = 1623566



Manual Integration Results

4.319	Response = 1869735	M
4.503	Response = 2092587	M
4.729	Response = 1858906	M
4.859	Response = 2742348	M
5.049	Response = 2059845	M

Reviewer: salversonj, 08-May-2018 12:24:07

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-143.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-May-2018 18:57:37 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:53 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 12:02:17

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.062	1.061	0.001	10881150	0.5000	0.5000	M
2	0.911	0.911	0.000	23484144	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.200	2.199	0.001	282305	0.5000	0.5516	M
1	2.668	2.666	0.002	176259	0.5000	0.5116	M
1	2.870	2.868	0.002	494234	0.5000	0.5473	M
1	2.953	2.958	-0.006	194501	0.5000	0.5437	M
1	3.015	3.013	0.002	135136	0.5000	0.5659	M
		Average of Peak Amounts =				0.5440	
2	1.788	1.818	-0.030	558623	0.5000	0.4932	
2	2.083	2.083	0.000	513308	0.5000	0.5654	
2	2.379	2.380	-0.001	781850	0.5000	0.4271	
2	2.481	2.482	-0.001	381324	0.5000	0.4921	
2	2.835	2.834	0.001	422764	0.5000	0.5522	
		Average of Peak Amounts =				0.5060	
						RPD = 7.24	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	4.319	4.320	-0.001	489919	0.5000	0.5903	M
1	4.503	4.501	0.002	527331	0.5000	0.5663	M
1	4.728	4.731	-0.003	462445	0.5000	0.5503	M
1	4.858	4.858	0.000	761040	0.5000	0.5000	M
1	5.049	5.049	0.000	575365	0.5000	0.5961	M
		Average of Peak Amounts =				0.5606	
2	3.756	3.755	0.001	895262	0.5000	0.5741	
2	4.471	4.471	0.000	1137312	0.5000	0.5760	
2	4.617	4.615	0.002	2094929	0.5000	0.5066	
2	4.904	4.904	0.000	858702	0.5000	0.4883	
2	4.938	4.936	0.002	1429757	0.5000	0.5583	
		Average of Peak Amounts =				0.5406	
						RPD = 3.62	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00021 Amount Added: 1.00 Units: mL

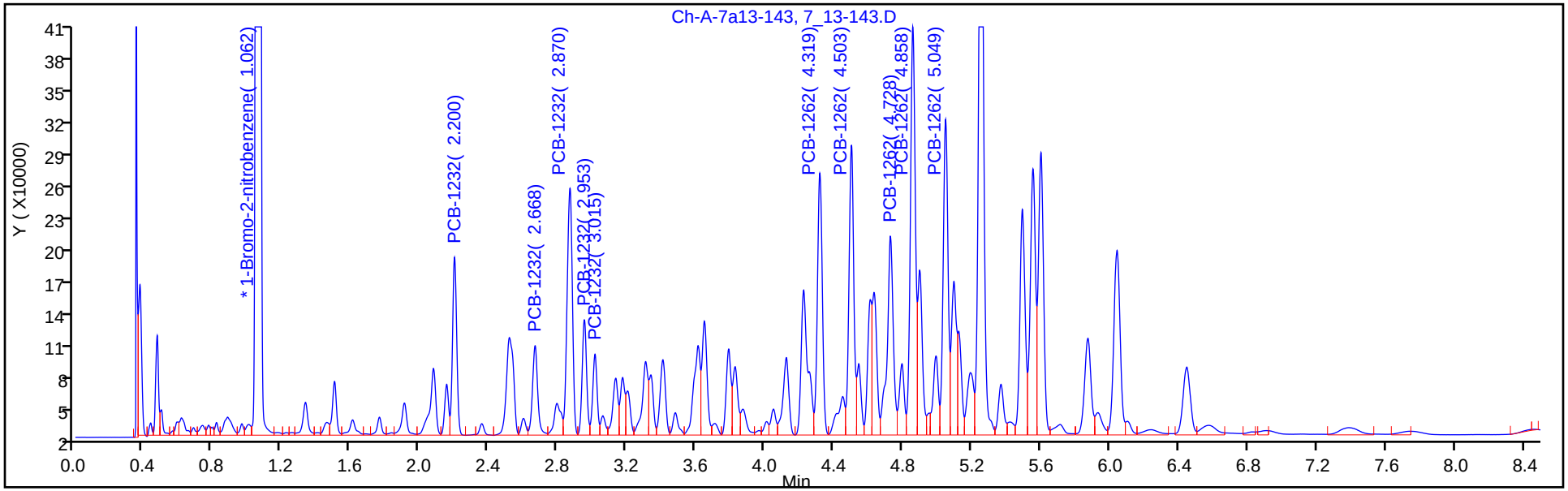
Report Date: 08-May-2018 12:39:54 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

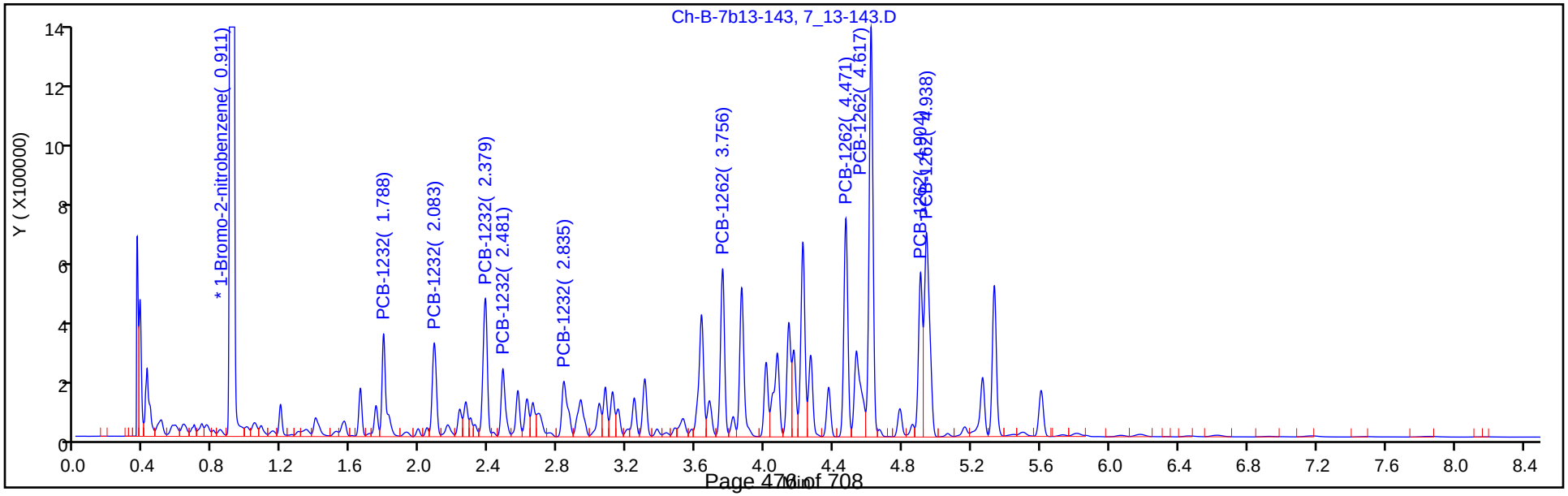
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-143.D

Injection Date:	07-May-2018 18:57:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

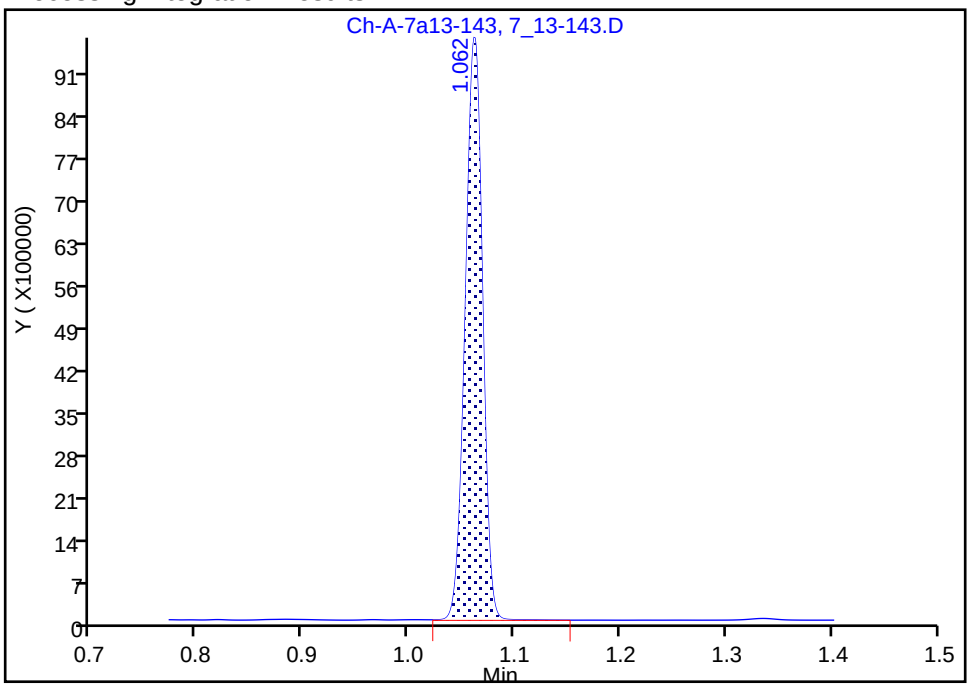
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-143.D
Injection Date: 07-May-2018 18:57:37 Instrument ID: HP6890-7
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

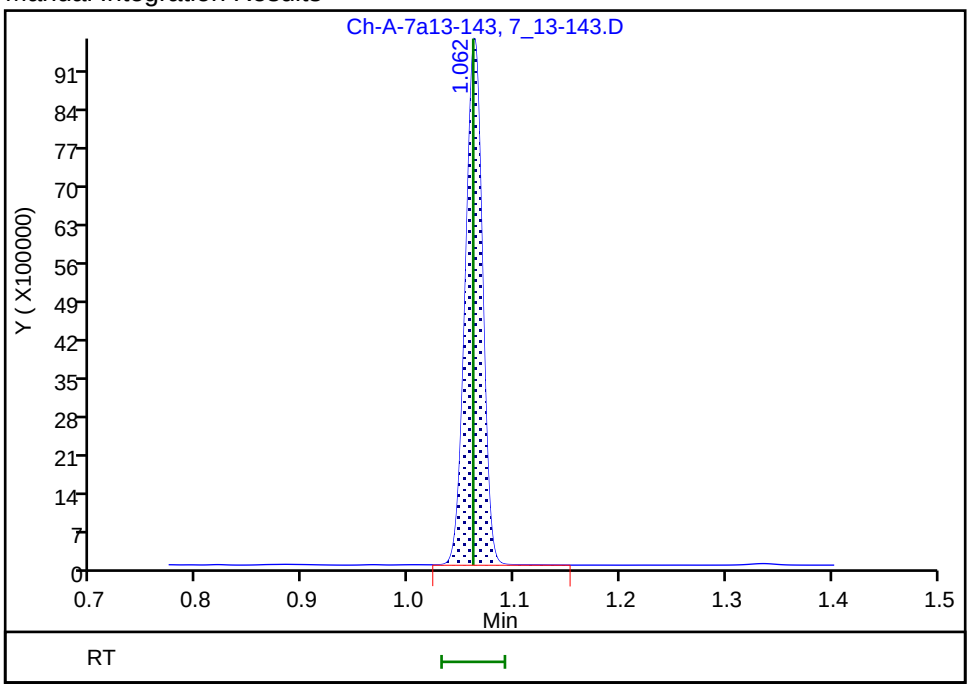
Processing Integration Results

RT: 1.06
Area: 10892920
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.06
Area: 10881150
Amount: 0.500000
Amount Units: ng/uL



Reviewer: salversonj, 08-May-2018 12:24:30
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Report Date: 08-May-2018 12:39:54 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-143.D

Injection Date: 07-May-2018 18:57:37 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

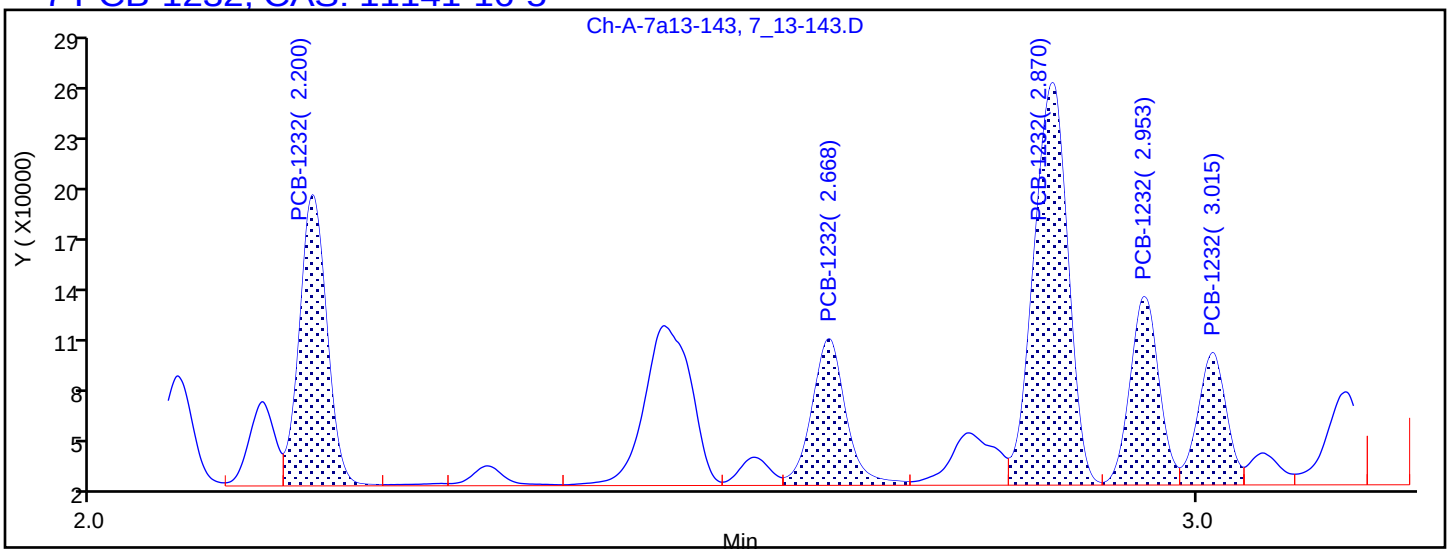
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

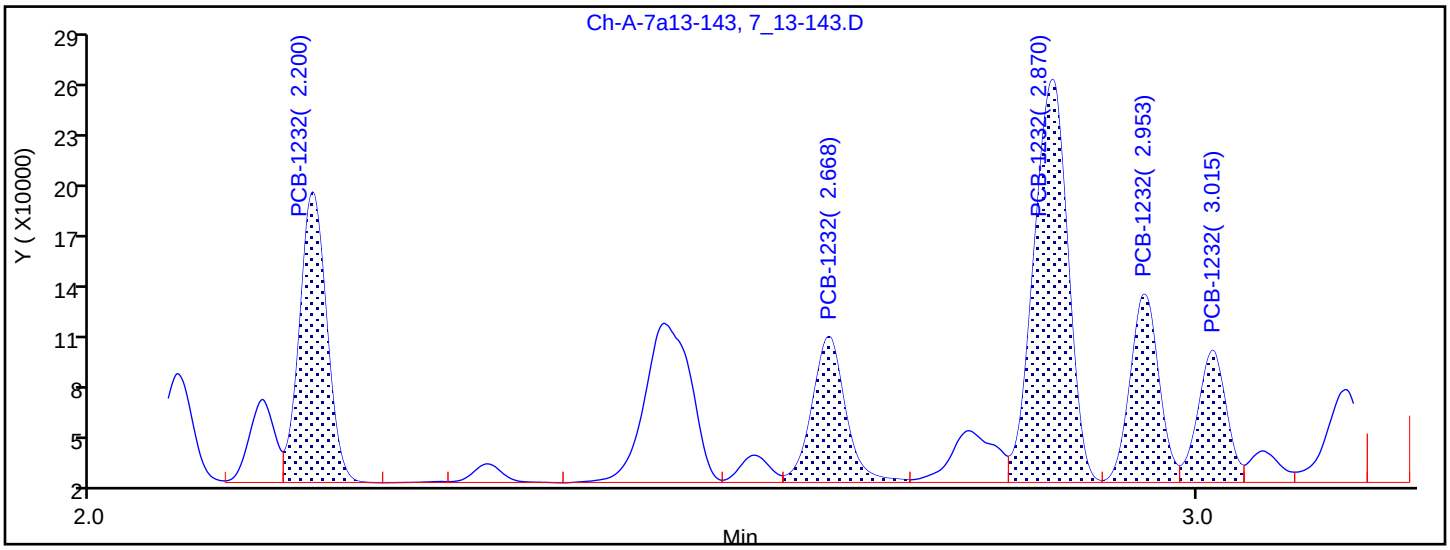
Column: Detector Ch-A-7A136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.200	Response = 286730
2.668	Response = 179954
2.870	Response = 496376
2.953	Response = 196067
3.015	Response = 136305



Manual Integration Results

2.200	Response = 282305	M
2.668	Response = 176259	M
2.870	Response = 494234	M
2.953	Response = 194501	M
3.015	Response = 135136	M

Reviewer: salversonj, 08-May-2018 12:24:30

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Report Date: 08-May-2018 12:39:54 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-143.D

Injection Date: 07-May-2018 18:57:37 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

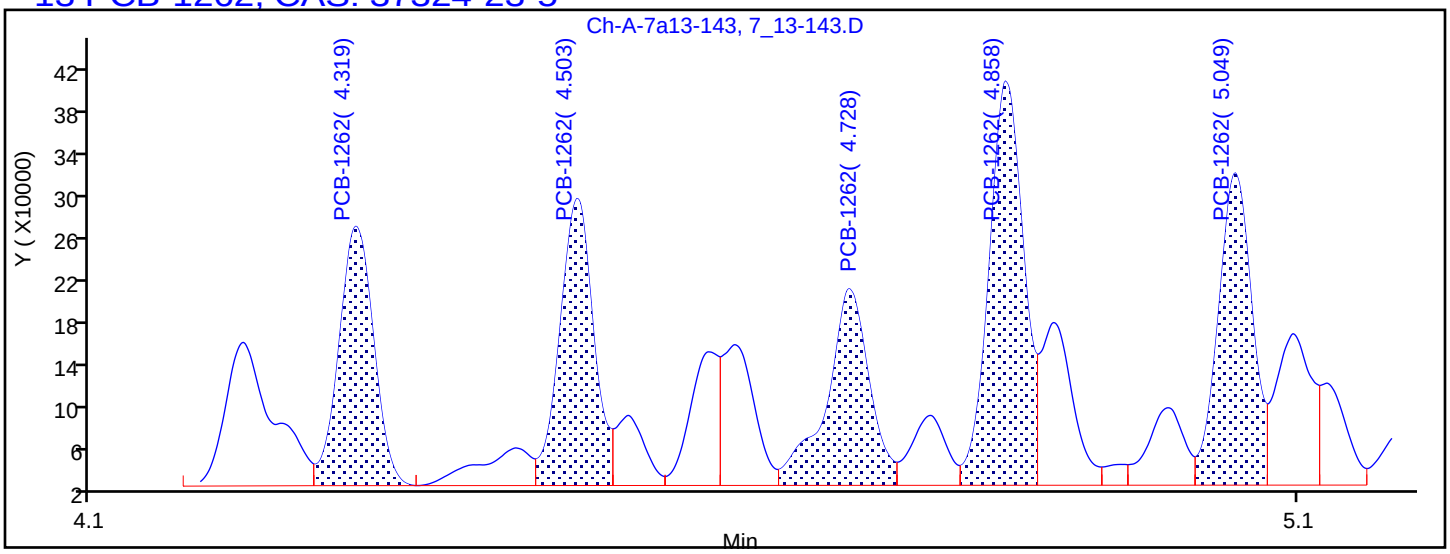
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

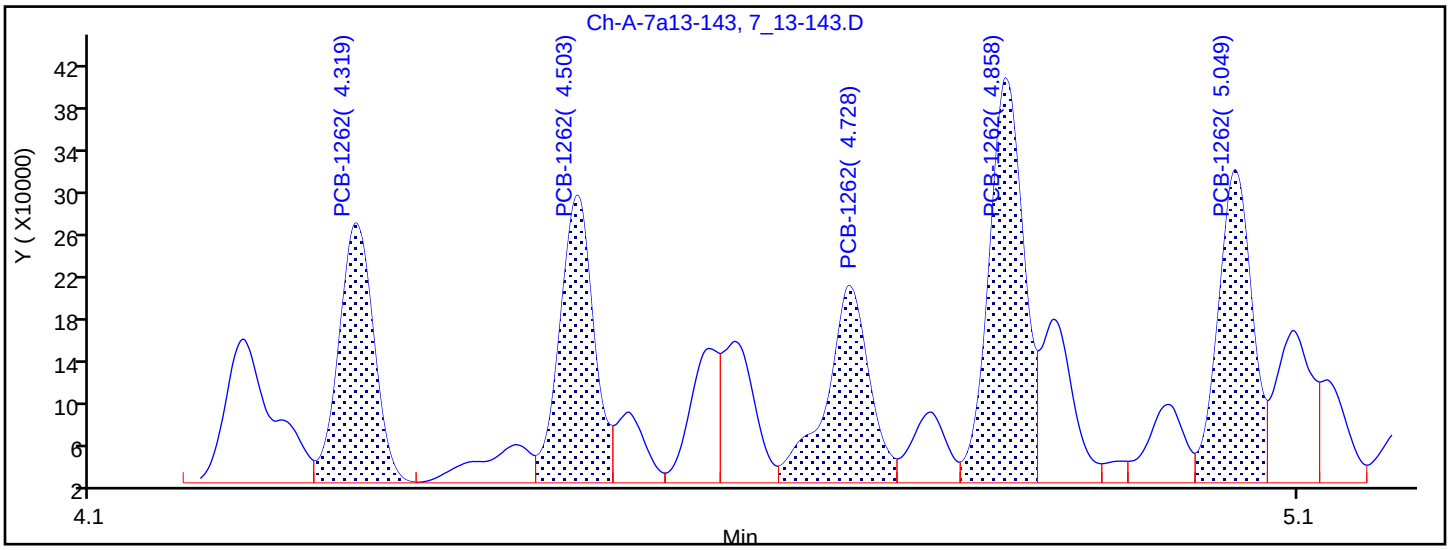
Column: Detector Ch-A-7A136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.319	Response = 487537
4.503	Response = 525126
4.728	Response = 458280
4.858	Response = 758006
5.049	Response = 572105



Manual Integration Results

4.319	Response = 489919	M
4.503	Response = 527331	M
4.728	Response = 462445	M
4.858	Response = 761040	M
5.049	Response = 575365	M

Reviewer: salversonj, 08-May-2018 12:24:30

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-144.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-May-2018 19:13:27 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:57 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 06:56:46

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.063	1.063	0.000	11092103	0.5000	0.5000	M
2	0.912	0.912	0.000	23753414	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.199	2.199	0.000	25452	0.0200	0.0184	M
1	2.666	2.666	0.000	66178	0.0200	0.0196	M
1	2.868	2.868	0.000	28599	0.0200	0.0186	M
1	2.958	2.958	0.000	22790	0.0200	0.0187	M
1	3.013	3.013	0.000	8129	0.0200	0.0180	M
		Average of Peak Amounts =				0.0187	
2	1.818	1.818	0.000	142984	0.0200	0.0202	
2	2.083	2.083	0.000	29747	0.0200	0.0180	
2	2.380	2.380	0.000	45487	0.0200	0.0246	
2	2.482	2.482	0.000	18269	0.0200	0.0233	
2	2.834	2.834	0.000	23005	0.0200	0.0184	
		Average of Peak Amounts =				0.0209	
						RPD = 11.31	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	4.320	4.320	0.000	29216	0.0200	0.0173	M
1	4.501	4.501	0.000	42847	0.0200	0.0180	M
1	4.731	4.731	0.000	52366	0.0200	0.0185	M
1	4.858	4.858	0.000	45581	0.0200	0.0200	M
1	5.049	5.049	0.000	41851	0.0200	-0.0528	M
		Average of Peak Amounts =				0.004193	
2	3.755	3.755	0.000	45457	0.0200	0.0178	
2	4.471	4.471	0.000	62533	0.0200	0.0177	
2	4.615	4.615	0.000	198495	0.0200	0.0198	
2	4.904	4.904	0.000	111183	0.0200	0.0204	
2	4.936	4.936	0.000	82697	0.0200	0.0182	
		Average of Peak Amounts =				0.0188	
						RPD = 126.95	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00008 Amount Added: 1.00 Units: mL

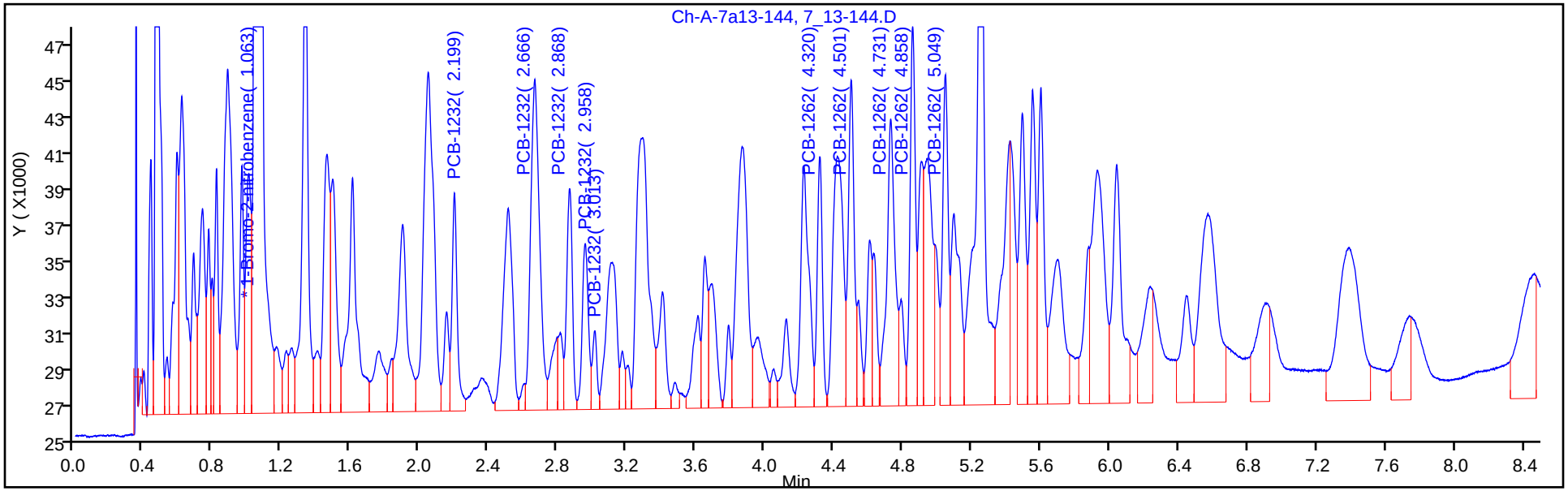
Report Date: 08-May-2018 12:39:57 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

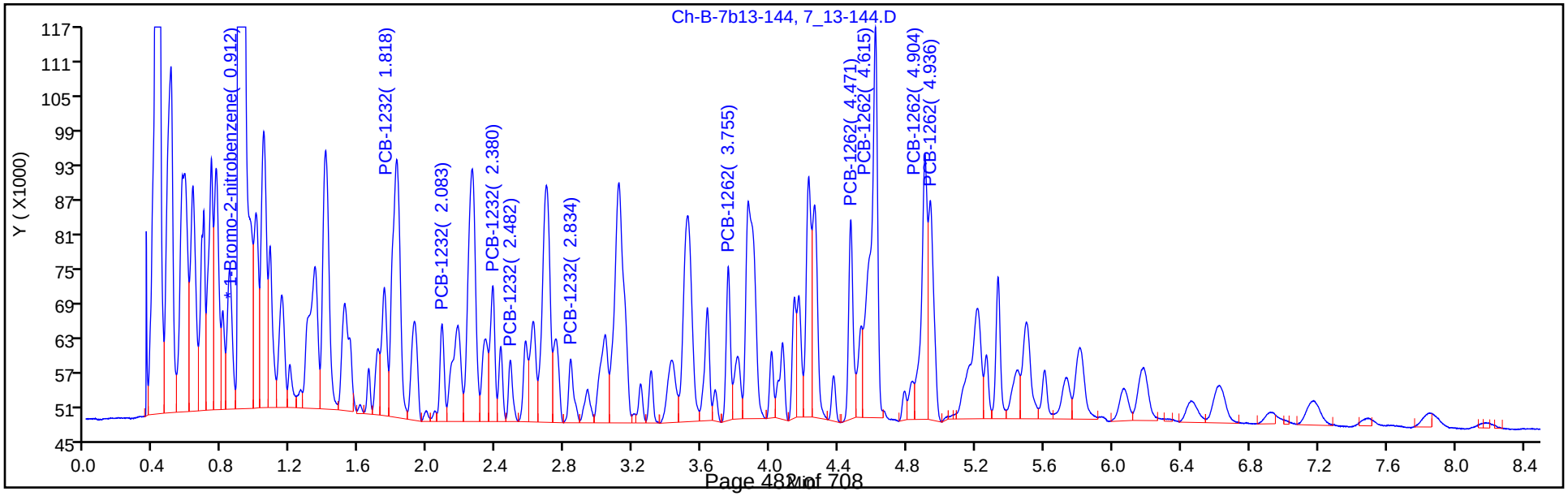
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-144.D

Injection Date:	07-May-2018 19:13:27	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

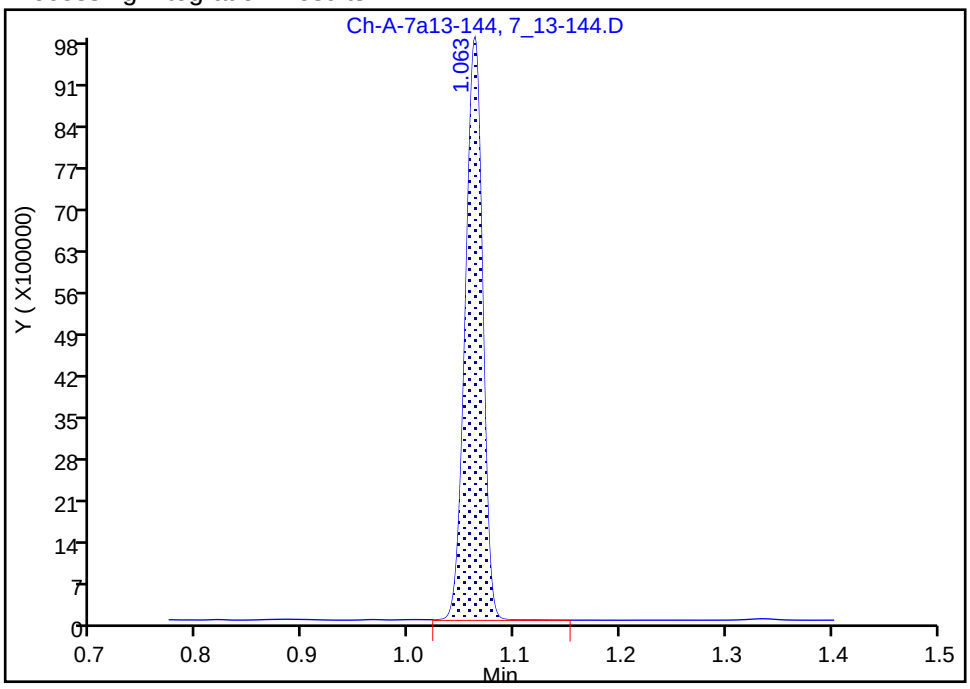
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-144.D
Injection Date: 07-May-2018 19:13:27 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

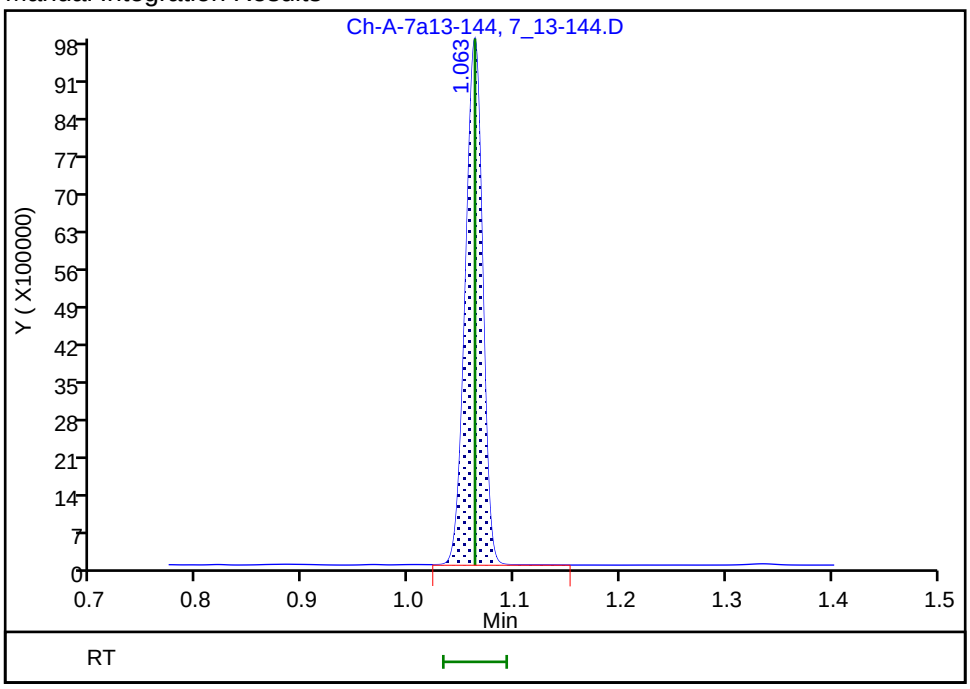
Processing Integration Results

RT: 1.06
Area: 11092633
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.06
Area: 11092103
Amount: 0.500000
Amount Units: ng/uL



Reviewer: salversonj, 08-May-2018 12:29:01
Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

Report Date: 08-May-2018 12:39:57 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-144.D

Injection Date: 07-May-2018 19:13:27 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

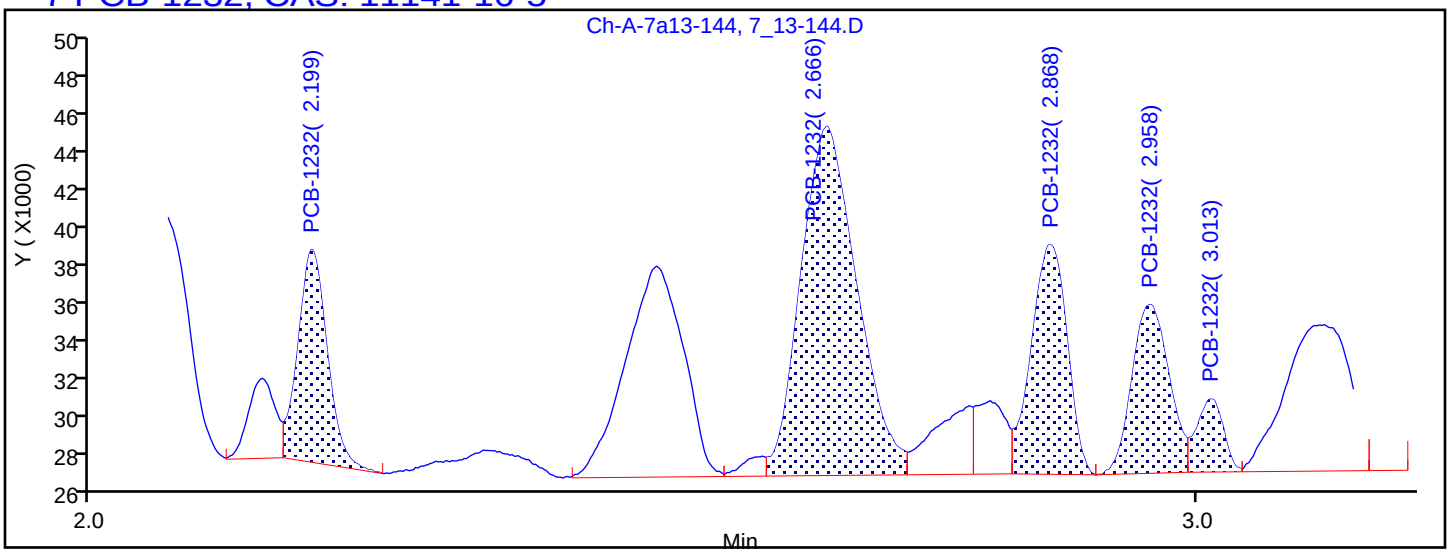
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

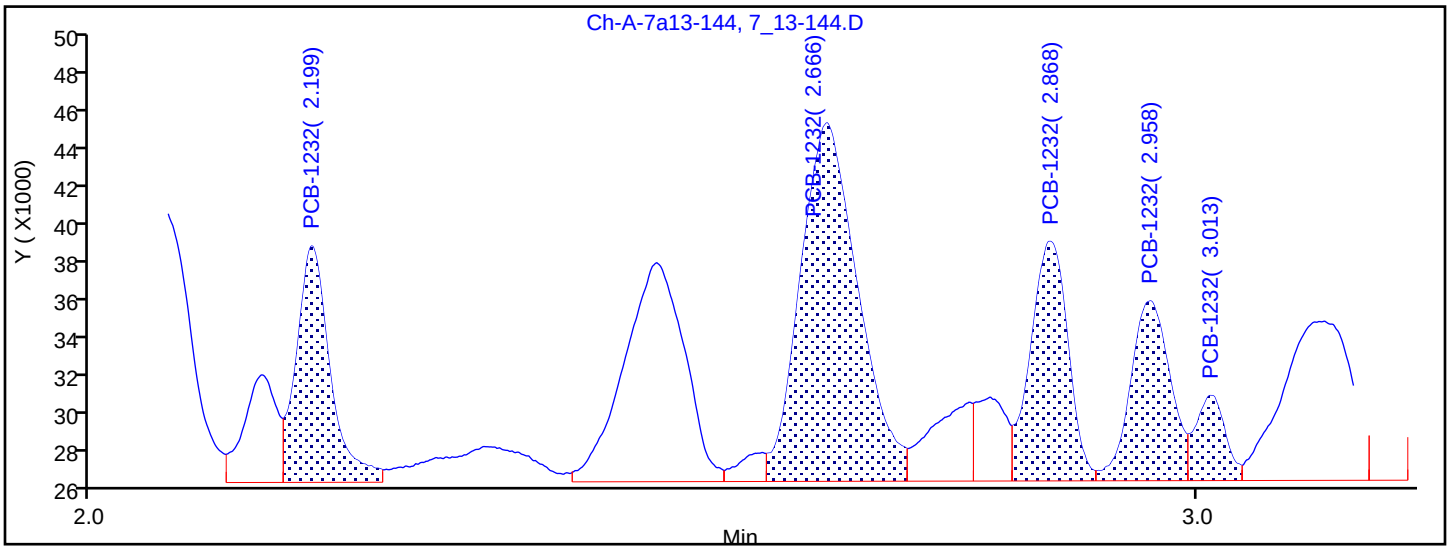
Column: Detector Ch-A-7A136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.199	Response = 19871
2.666	Response = 62452
2.868	Response = 26229
2.958	Response = 20028
3.013	Response = 6293



Manual Integration Results

2.199	Response = 25452	M
2.666	Response = 66178	M
2.868	Response = 28599	M
2.958	Response = 22790	M
3.013	Response = 8129	M

Reviewer: salversonj, 08-May-2018 12:29:01

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

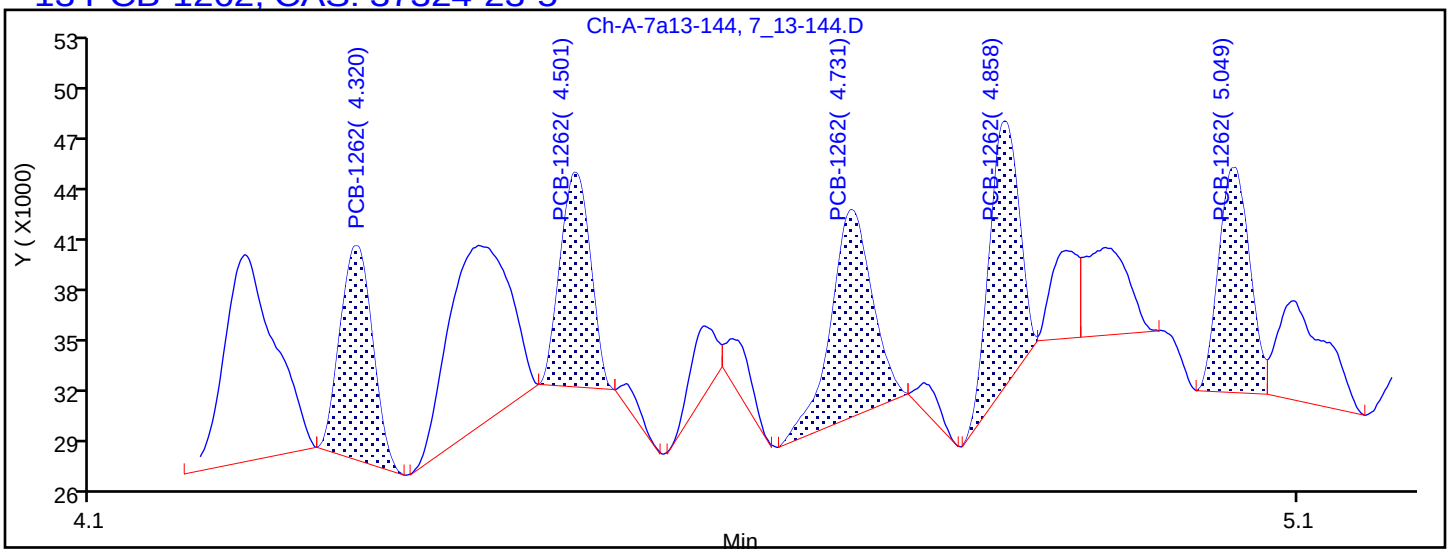
Report Date: 08-May-2018 12:39:57 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-144.D

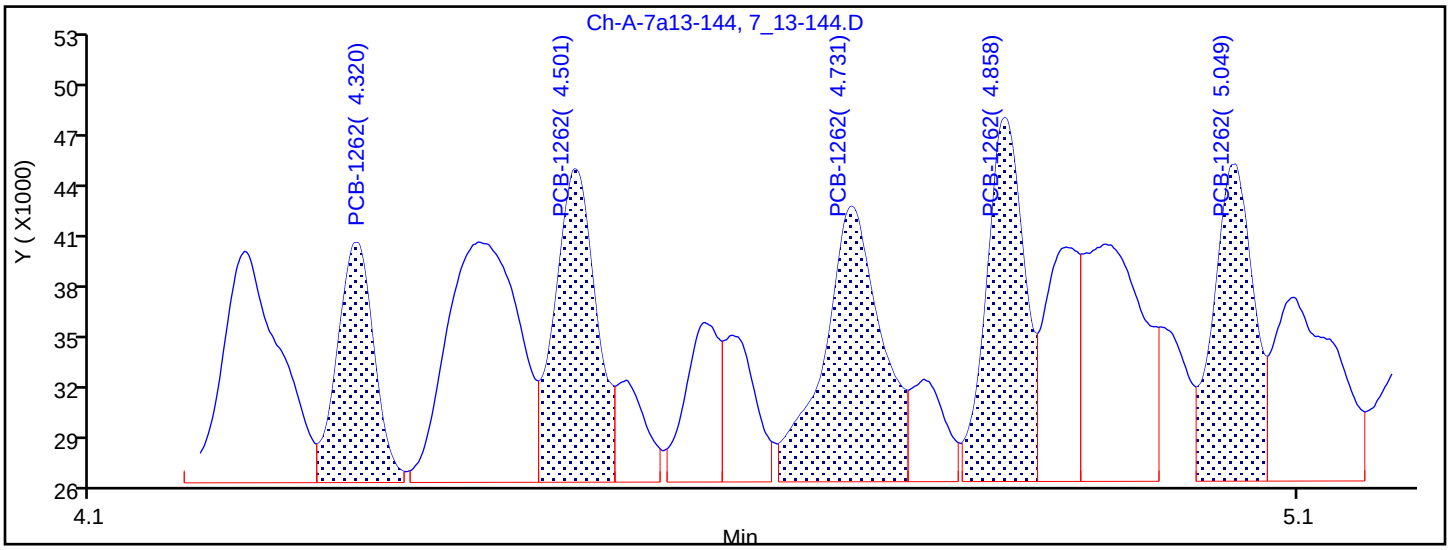
Injection Date:	07-May-2018 19:13:27	Instrument ID:	HP6890-7		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.320	Response = 23028
4.501	Response = 21384
4.731	Response = 28505
4.858	Response = 26017
5.049	Response = 23120



Manual Integration Results

4.320	Response = 29216	M
4.501	Response = 42847	M
4.731	Response = 52366	M
4.858	Response = 45581	M
5.049	Response = 41851	M

Reviewer: salversonj, 08-May-2018 12:29:01

Audit Action: Assigned New Baseline Audit Reason: Peak not integrated

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 18:41 Calibration End Date: 05/07/2018 19:13 Calibration ID: 33772

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/22	7_13-144.D
Level 2	IC 480-413004/21	7_13-143.D
Level 3	IC 480-413004/20	7_13-142.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				B	M1	M2								
PCB-1232 Peak 1	0.1505	0.0238	0.0202			Lin1	0.0026	0.0188							1.0000		0.9900
PCB-1232 Peak 2	0.0313	0.0219	0.0184			Lin1	0.0003	0.0188							0.9950		0.9900
PCB-1232 Peak 3	0.0479	0.0333	0.0358			Ave		0.0390				20.0		20.0			
PCB-1232 Peak 4	0.0192	0.0162	0.0140			Ave		0.0165				15.8		20.0			
PCB-1232 Peak 5	0.0242	0.0180	0.0156			Lin1	0.0002	0.0160							0.9970		0.9900
PCB-1262 Peak 1	0.0478	0.0381	0.0316			Lin1	0.0004	0.0325							0.9940		0.9900
PCB-1262 Peak 2	0.0658	0.0484	0.0398			Lin1	0.0006	0.0410							0.9940		0.9900
PCB-1262 Peak 3	0.2089	0.0892	0.0841			Lin1	0.0025	0.0830							1.0000		0.9900
PCB-1262 Peak 4	0.1170	0.0366	0.0351			Lin1	0.0016	0.0341							1.0000		0.9900
PCB-1262 Peak 5	0.0870	0.0609	0.0520			Lin1	0.0008	0.0531							0.9960		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 18:41 Calibration End Date: 05/07/2018 19:13 Calibration ID: 33772

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/22	7_13-144.D
Level 2	IC 480-413004/21	7_13-143.D
Level 3	IC 480-413004/20	7_13-142.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	142984	558623	2358345			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	29747	513308	2148773			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Ave	45487	781850	4182849			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Ave	18269	381324	1641464			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	23005	422764	1830381			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Lin1	45457	895262	3692678			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	62533	1137312	4655696			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Lin1	198495	2094929	9833053			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Lin1	111183	858702	4104364			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Lin1	82697	1429757	6087093			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-142.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-May-2018 18:41:35 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:50 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 06:56:06

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.062	1.061	0.001	13089286	0.5000	0.5000	M
2	0.911	0.911	0.000	29247513	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.199	2.199	0.000	1151360	2.00	1.95	M
1	2.667	2.666	0.001	614165	2.00	1.99	M
1	2.868	2.868	0.000	2086823	2.00	1.95	M
1	2.953	2.958	-0.006	791581	2.00	1.96	M
1	3.013	3.013	0.000	545109	2.00	1.94	M
		Average of Peak Amounts =				1.96	
2	1.790	1.818	-0.028	2358345	2.00	2.01	
2	2.083	2.083	0.000	2148773	2.00	1.94	
2	2.378	2.380	-0.002	4182849	2.00	1.83	
2	2.481	2.482	-0.001	1641464	2.00	1.70	
2	2.835	2.834	0.001	1830381	2.00	1.95	
		Average of Peak Amounts =				1.89	
						RPD = 3.73	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	4.319	4.320	-0.001	1869735	2.00	1.91	M
1	4.503	4.501	0.001	2092587	2.00	1.94	M
1	4.729	4.731	-0.002	1858906	2.00	1.95	M
1	4.859	4.858	0.001	2742348	2.00	2.00	M
1	5.049	5.049	0.000	2059845	2.00	1.98	M
		Average of Peak Amounts =				1.96	
2	3.756	3.755	0.001	3692678	2.00	1.93	
2	4.471	4.471	0.000	4655696	2.00	1.93	
2	4.616	4.615	0.001	9833053	2.00	1.99	
2	4.904	4.904	0.000	4104364	2.00	2.01	
2	4.938	4.936	0.002	6087093	2.00	1.94	
		Average of Peak Amounts =				1.96	
						RPD = 0.27	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00008 Amount Added: 1.00 Units: mL

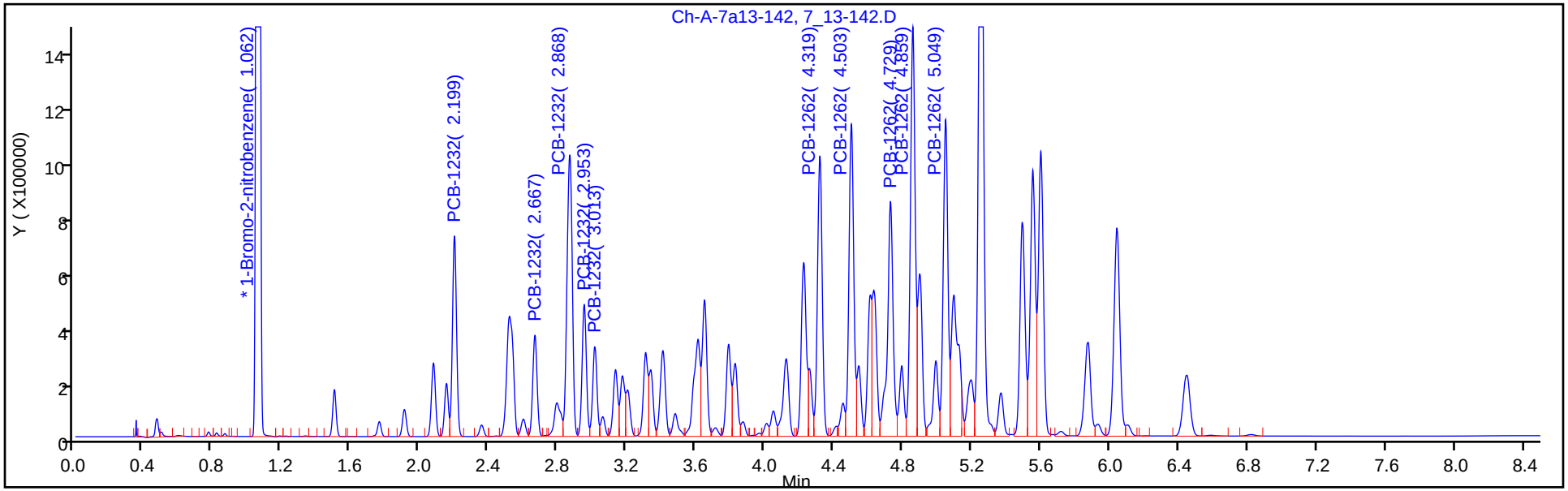
Report Date: 08-May-2018 12:39:51 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

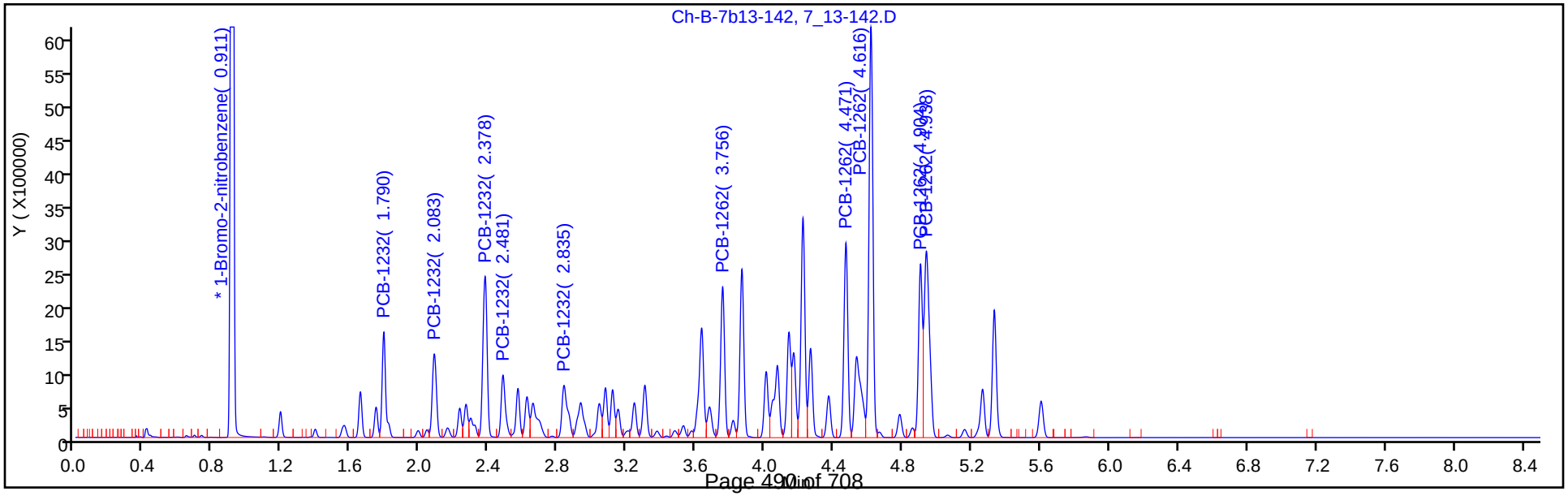
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-142.D

Injection Date:	07-May-2018 18:41:35	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-143.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-May-2018 18:57:37 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:53 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 12:02:17

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.062	1.061	0.001	10881150	0.5000	0.5000	M
2	0.911	0.911	0.000	23484144	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.200	2.199	0.001	282305	0.5000	0.5516	M
1	2.668	2.666	0.002	176259	0.5000	0.5116	M
1	2.870	2.868	0.002	494234	0.5000	0.5473	M
1	2.953	2.958	-0.006	194501	0.5000	0.5437	M
1	3.015	3.013	0.002	135136	0.5000	0.5659	M
		Average of Peak Amounts =				0.5440	
2	1.788	1.818	-0.030	558623	0.5000	0.4932	
2	2.083	2.083	0.000	513308	0.5000	0.5654	
2	2.379	2.380	-0.001	781850	0.5000	0.4271	
2	2.481	2.482	-0.001	381324	0.5000	0.4921	
2	2.835	2.834	0.001	422764	0.5000	0.5522	
		Average of Peak Amounts =				0.5060	
						RPD = 7.24	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	4.319	4.320	-0.001	489919	0.5000	0.5903	M
1	4.503	4.501	0.002	527331	0.5000	0.5663	M
1	4.728	4.731	-0.003	462445	0.5000	0.5503	M
1	4.858	4.858	0.000	761040	0.5000	0.5000	M
1	5.049	5.049	0.000	575365	0.5000	0.5961	M
		Average of Peak Amounts =				0.5606	
2	3.756	3.755	0.001	895262	0.5000	0.5741	
2	4.471	4.471	0.000	1137312	0.5000	0.5760	
2	4.617	4.615	0.002	2094929	0.5000	0.5066	
2	4.904	4.904	0.000	858702	0.5000	0.4883	
2	4.938	4.936	0.002	1429757	0.5000	0.5583	
		Average of Peak Amounts =				0.5406	
						RPD = 3.62	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00021 Amount Added: 1.00 Units: mL

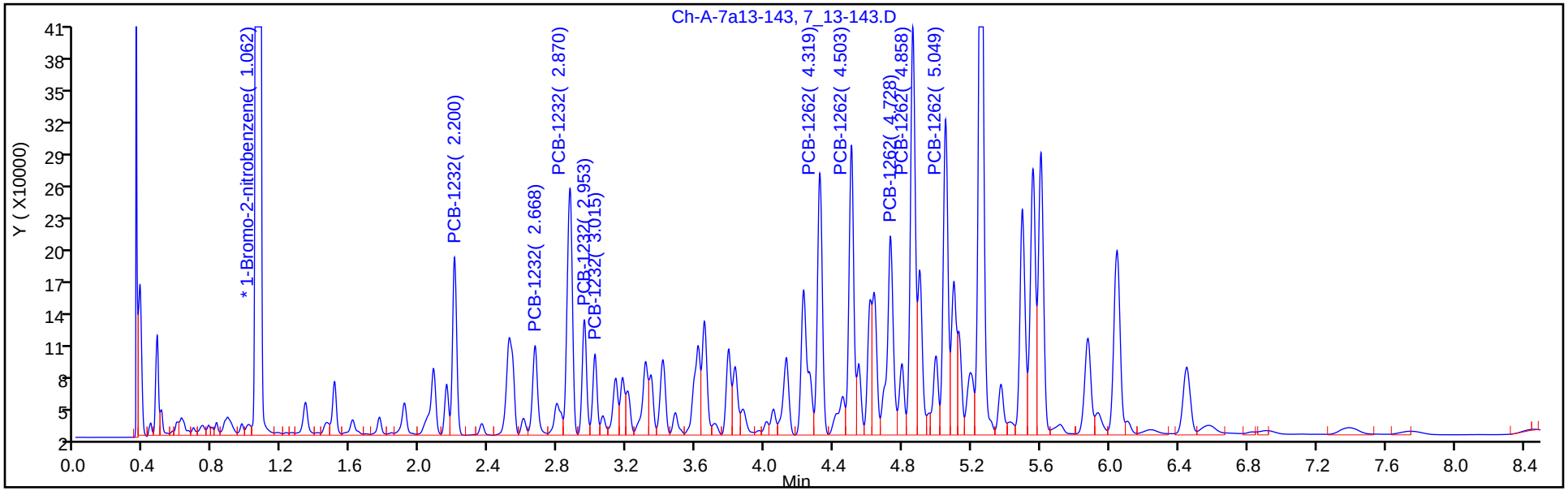
Report Date: 08-May-2018 12:39:54 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

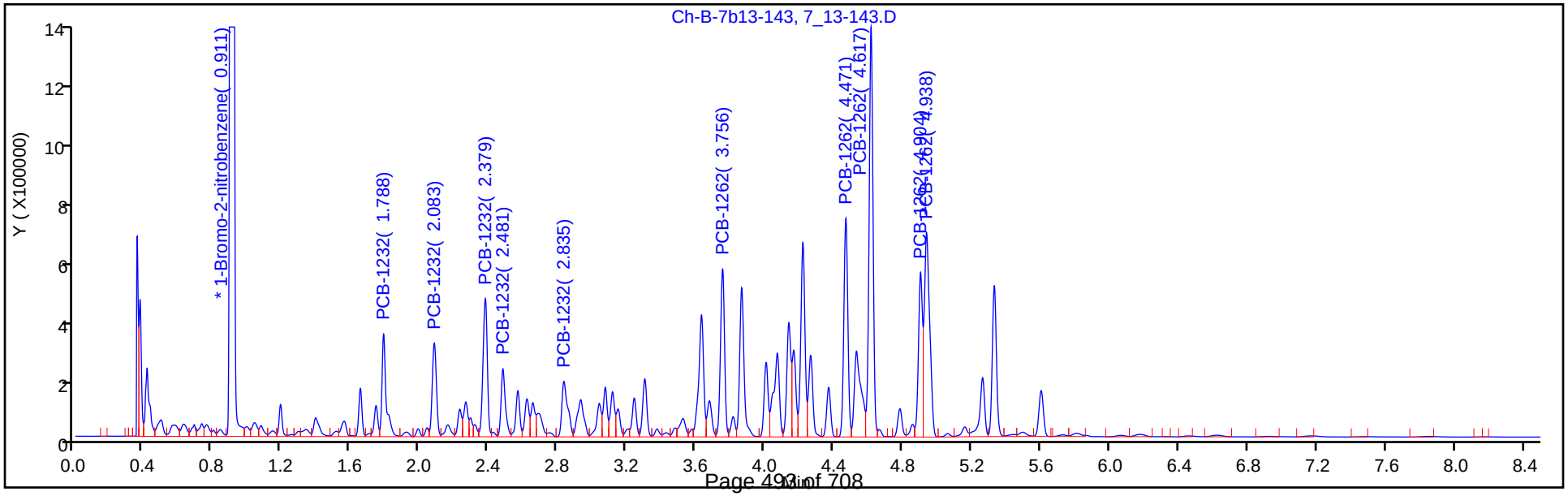
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-143.D

Injection Date:	07-May-2018 18:57:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-144.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-May-2018 19:13:27 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:39:57 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 06:56:46

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.063	1.063	0.000	11092103	0.5000	0.5000	M
2	0.912	0.912	0.000	23753414	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.199	2.199	0.000	25452	0.0200	0.0184	M
1	2.666	2.666	0.000	66178	0.0200	0.0196	M
1	2.868	2.868	0.000	28599	0.0200	0.0186	M
1	2.958	2.958	0.000	22790	0.0200	0.0187	M
1	3.013	3.013	0.000	8129	0.0200	0.0180	M
		Average of Peak Amounts =				0.0187	
2	1.818	1.818	0.000	142984	0.0200	0.0202	
2	2.083	2.083	0.000	29747	0.0200	0.0180	
2	2.380	2.380	0.000	45487	0.0200	0.0246	
2	2.482	2.482	0.000	18269	0.0200	0.0233	
2	2.834	2.834	0.000	23005	0.0200	0.0184	
		Average of Peak Amounts =				0.0209	
						RPD = 11.31	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	4.320	4.320	0.000	29216	0.0200	0.0173	M
1	4.501	4.501	0.000	42847	0.0200	0.0180	M
1	4.731	4.731	0.000	52366	0.0200	0.0185	M
1	4.858	4.858	0.000	45581	0.0200	0.0200	M
1	5.049	5.049	0.000	41851	0.0200	-0.0528	M
		Average of Peak Amounts =				0.004193	
2	3.755	3.755	0.000	45457	0.0200	0.0178	
2	4.471	4.471	0.000	62533	0.0200	0.0177	
2	4.615	4.615	0.000	198495	0.0200	0.0198	
2	4.904	4.904	0.000	111183	0.0200	0.0204	
2	4.936	4.936	0.000	82697	0.0200	0.0182	
		Average of Peak Amounts =				0.0188	
						RPD = 126.95	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00008 Amount Added: 1.00 Units: mL

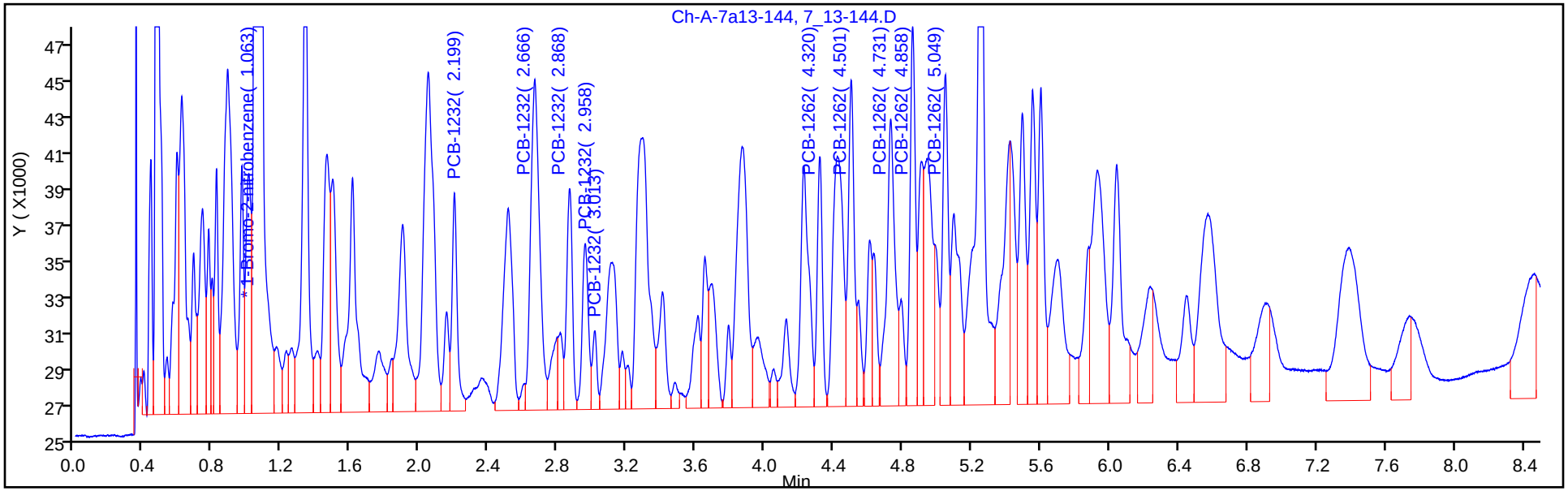
Report Date: 08-May-2018 12:39:57 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

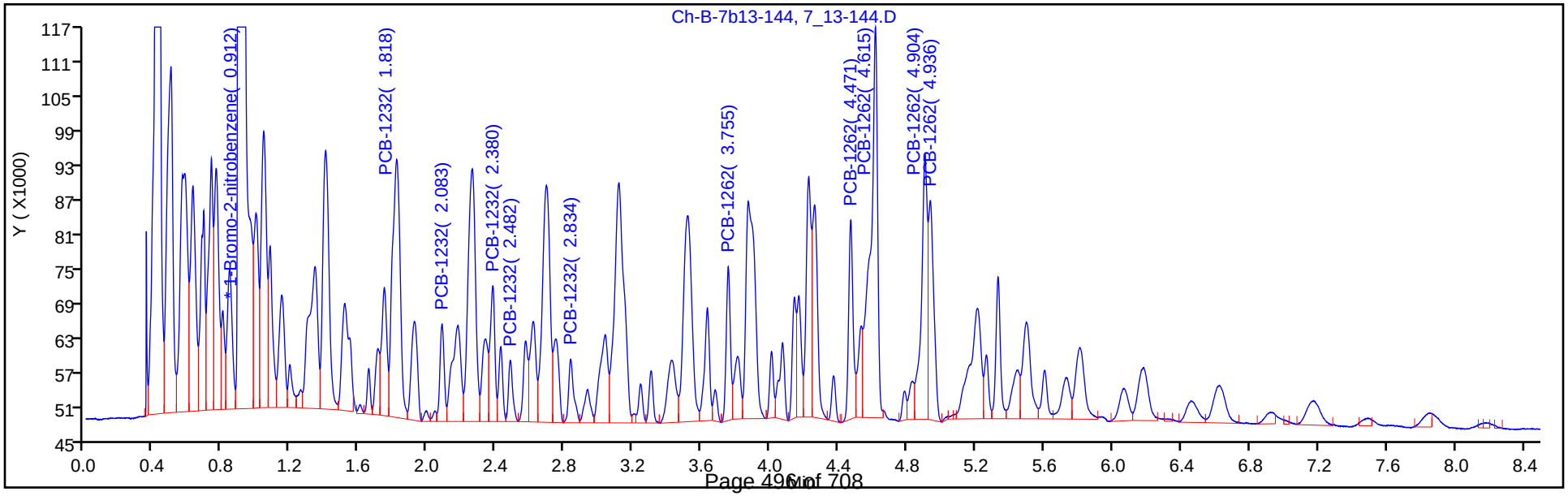
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-144.D

Injection Date:	07-May-2018 19:13:27	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 19:45 Calibration End Date: 05/07/2018 20:17 Calibration ID: 33777

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/26	7_13-148.D
Level 2	IC 480-413004/25	7_13-147.D
Level 3	IC 480-413004/24	7_13-146.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				B	M1	M2								
PCB-1242 Peak 1	0.0991	0.0890	0.0778			Ave		0.0887				12.0		20.0			
PCB-1242 Peak 2	0.0592	0.0330	0.0277			Lin1	0.0007	0.0282							0.9960		0.9900
PCB-1242 Peak 3	0.1722	0.0239	0.0203			Lin1	0.0031	0.0186							1.0000		0.9900
PCB-1242 Peak 4	0.0429	0.0289	0.0245			Lin1	0.0004	0.0251							0.9960		0.9900
PCB-1242 Peak 5	0.0460	0.0432	0.0375			Ave		0.0422				10.2		20.0			
PCB-1268 Peak 1	0.1999	0.1419	0.1378			Lin1	0.0013	0.1376							1.0000		0.9900
PCB-1268 Peak 2	0.1776	0.1315	0.1271			Ave		0.1454				19.2		20.0			
PCB-1268 Peak 3	0.1624	0.1168	0.1120			Lin1	0.0010	0.1121							1.0000		0.9900
PCB-1268 Peak 4	0.0527	0.0481	0.0463			Ave		0.0490				6.7		20.0			
PCB-1268 Peak 5	0.4561	0.3764	0.3664			Ave		0.3996				12.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 19:45 Calibration End Date: 05/07/2018 20:17 Calibration ID: 33777

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/26	7_13-148.D
Level 2	IC 480-413004/25	7_13-147.D
Level 3	IC 480-413004/24	7_13-146.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Ave	42469	1040800	3197737			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	25344	386492	1139564			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	73756	279926	832730			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	18390	338069	1008330			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Ave	19702	505525	1541224			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Lin1	85642	1659298	5659210			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Ave	76059	1537847	5221793			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Lin1	69571	1365402	4602534			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Ave	22560	562345	1902928			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Ave	195378	4401394	15051200			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-146.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-May-2018 19:45:20 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 17:37:52 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK051

First Level Reviewer: RudzG Date: 08-May-2018 17:28:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.063	0.000	10270141	0.5000	0.5000	
2	0.911	0.912	-0.001	21787984	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	2.869	2.869	0.000	3197737	2.00	1.76	
1	2.953	2.957	-0.005	1139564	2.00	1.94	
1	3.310	3.303	0.007	832730	2.00	2.02	
1	3.409	3.408	0.001	1008330	2.00	1.94	
1	3.614	3.613	0.002	1541224	2.00	1.78	
		Average of Peak Amounts =				1.89	
2	2.083	2.083	0.000	2754721	2.00	1.92	
2	2.379	2.379	0.000	4954237	2.00	1.96	
2	2.481	2.482	-0.001	2217838	2.00	1.64	
2	2.621	2.618	0.003	1209474	2.00	1.94	
2	2.835	2.836	-0.001	2699565	2.00	1.93	
		Average of Peak Amounts =				1.88	
						RPD = 0.36	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.557	5.558	-0.001	5659210	2.00	1.99	
1	5.601	5.602	-0.001	5221793	2.00	1.75	
1	5.859	5.858	0.001	4602534	2.00	1.99	
1	6.042	6.041	0.001	1902928	2.00	1.89	
1	6.448	6.448	0.000	15051200	2.00	1.83	
		Average of Peak Amounts =				1.89	
2	4.904	4.904	0.000	8368814	2.00	2.00	
2	4.943	4.941	0.001	8831757	2.00	1.77	
2	5.239	5.234	0.005	1919165	2.00	1.99	
2	5.333	5.332	0.000	3278797	2.00	1.99	
2	5.605	5.604	0.001	25388818	2.00	1.96	
		Average of Peak Amounts =				1.94	
						RPD = 2.71	

Reagents:

42-68w/IS@2.0_00009 Amount Added: 1.00 Units: mL

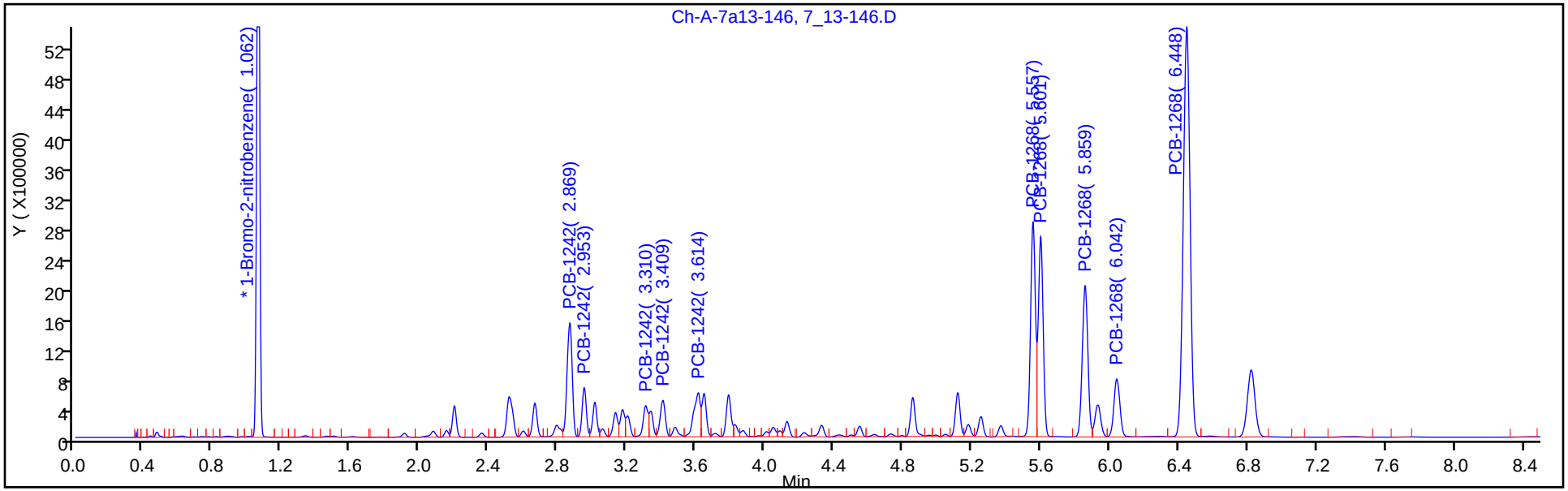
Report Date: 08-May-2018 17:37:52 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

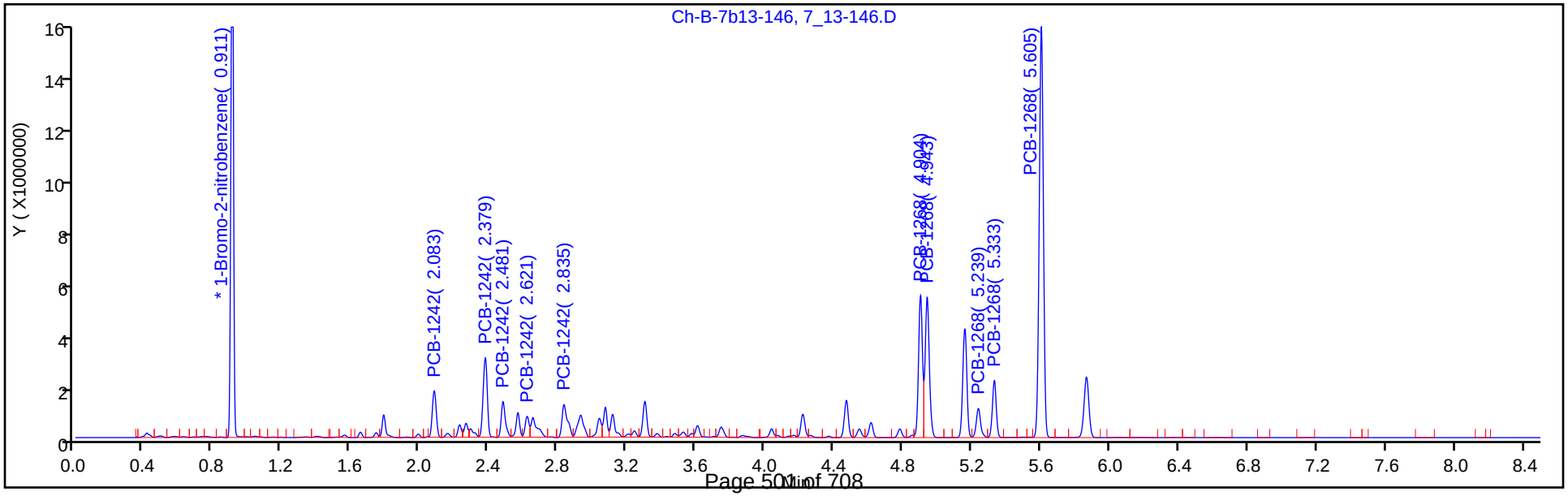
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-146.D

Injection Date:	07-May-2018 19:45:20	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-147.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-May-2018 20:01:18 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 17:37:55 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK051

First Level Reviewer: RudzG Date: 08-May-2018 17:32:00

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.063	1.063	0.000	11694372	0.5000	0.5000	
2	0.911	0.912	-0.001	25943992	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	2.870	2.869	0.001	1040800	0.5000	0.5019	
1	2.953	2.957	-0.004	386492	0.5000	0.5613	
1	3.311	3.303	0.008	279926	0.5000	0.4799	
1	3.410	3.408	0.002	338069	0.5000	0.5603	
1	3.615	3.613	0.003	505525	0.5000	0.5116	
		Average of Peak Amounts =				0.5230	
2	2.083	2.083	0.000	1001741	0.5000	0.5781	
2	2.379	2.379	0.000	1647245	0.5000	0.5389	
2	2.481	2.482	-0.001	803920	0.5000	0.5002	
2	2.621	2.618	0.003	451666	0.5000	0.5648	
2	2.834	2.836	-0.002	961584	0.5000	0.5697	
		Average of Peak Amounts =				0.5503	
						RPD = 5.09	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.558	5.558	0.000	1659298	0.5000	0.5065	
1	5.602	5.602	0.000	1537847	0.5000	0.4522	
1	5.859	5.858	0.001	1365402	0.5000	0.5113	
1	6.046	6.041	0.005	562345	0.5000	0.4904	
1	6.448	6.448	0.000	4401394	0.5000	0.4709	
		Average of Peak Amounts =				0.4863	
2	4.904	4.904	0.000	2538616	0.5000	0.4955	
2	4.943	4.941	0.002	2686613	0.5000	0.4522	
2	5.239	5.234	0.005	634766	0.5000	0.5080	
2	5.332	5.332	0.000	1017678	0.5000	0.5111	
2	5.604	5.604	0.000	7298991	0.5000	0.4728	
		Average of Peak Amounts =				0.4879	
						RPD = 0.34	

Reagents:

42-68w/IS@0.5_00021 Amount Added: 1.00 Units: mL

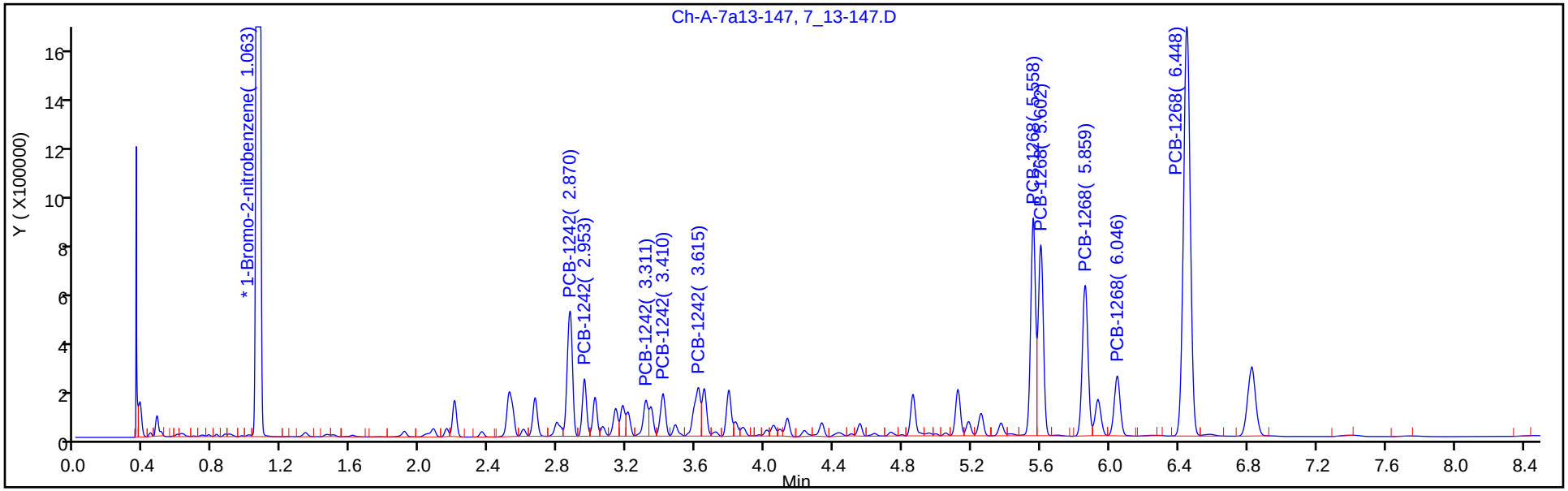
Report Date: 08-May-2018 17:37:55 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

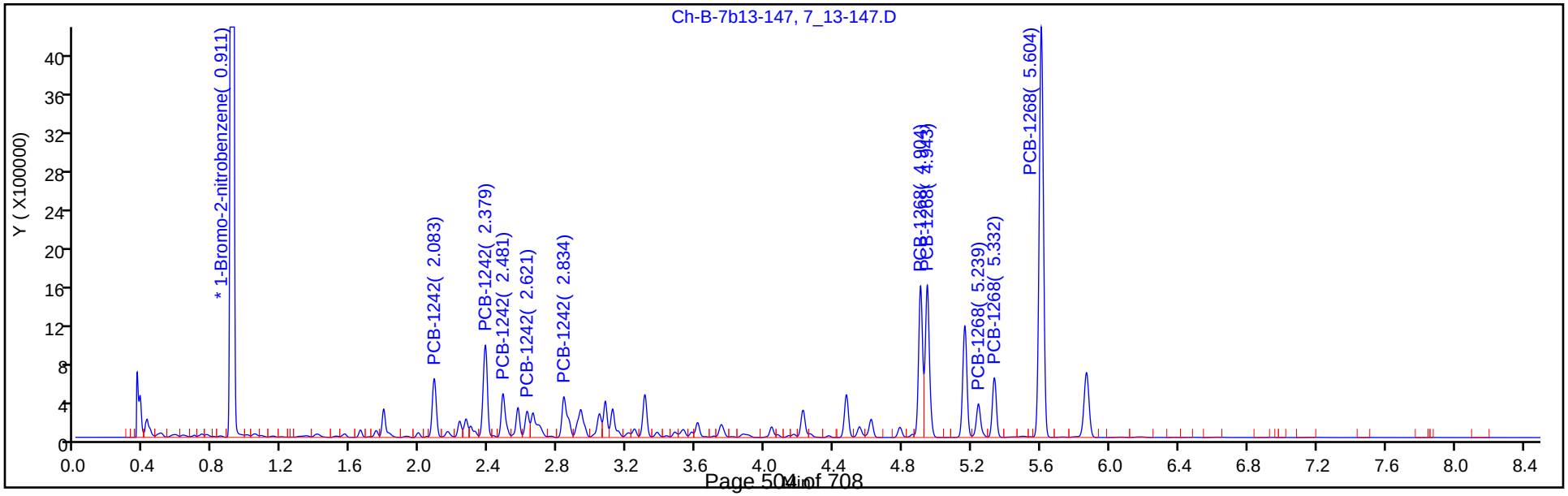
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-147.D

Injection Date:	07-May-2018 20:01:18	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-148.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-May-2018 20:17:08 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 17:50:36 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK051

First Level Reviewer: salversonj Date: 08-May-2018 06:57:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.063	1.063	0.000	10709020	0.5000	0.5000	
2	0.912	0.912	0.000	22977021	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							Ma
1	2.869	2.869	0.000	42469	0.0200	0.0224	M
1	2.957	2.957	0.000	25344	0.0200	0.0181	M
1	3.303	3.303	0.000	73756	0.0200	0.0206	M
1	3.408	3.408	0.000	18390	0.0200	0.0182	M
1	3.613	3.613	0.000	19702	0.0200	0.0218	M
		Average of Peak Amounts =				0.0202	
2	2.083	2.083	0.000	46977	0.0200	0.0176	
2	2.379	2.379	0.000	83091	0.0200	0.0188	
2	2.482	2.482	0.000	33538	0.0200	0.0236	
2	2.618	2.618	0.000	51269	0.0200	0.0180	a
2	2.836	2.836	0.000	43560	0.0200	0.0179	
		Average of Peak Amounts =				0.0192	
						RPD = 5.20	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							M
1	5.558	5.558	0.000	85642	0.0200	0.0198	M
1	5.602	5.602	0.000	76059	0.0200	0.0244	M
1	5.858	5.858	0.000	69571	0.0200	0.0197	M
1	6.041	6.041	0.000	22560	0.0200	0.0215	M
1	6.448	6.448	0.000	195378	0.0200	0.0228	M
		Average of Peak Amounts =				0.0216	
2	4.904	4.904	0.000	175998	0.0200	0.0201	
2	4.941	4.941	0.000	127422	0.0200	0.0242	
2	5.234	5.234	0.000	81272	0.0200	0.0198	
2	5.332	5.332	0.000	51360	0.0200	0.0197	
2	5.604	5.604	0.000	293964	0.0200	0.0215	
		Average of Peak Amounts =				0.0211	
						RPD = 2.74	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

42-68w/IS@.02_00009 Amount Added: 1.00 Units: mL

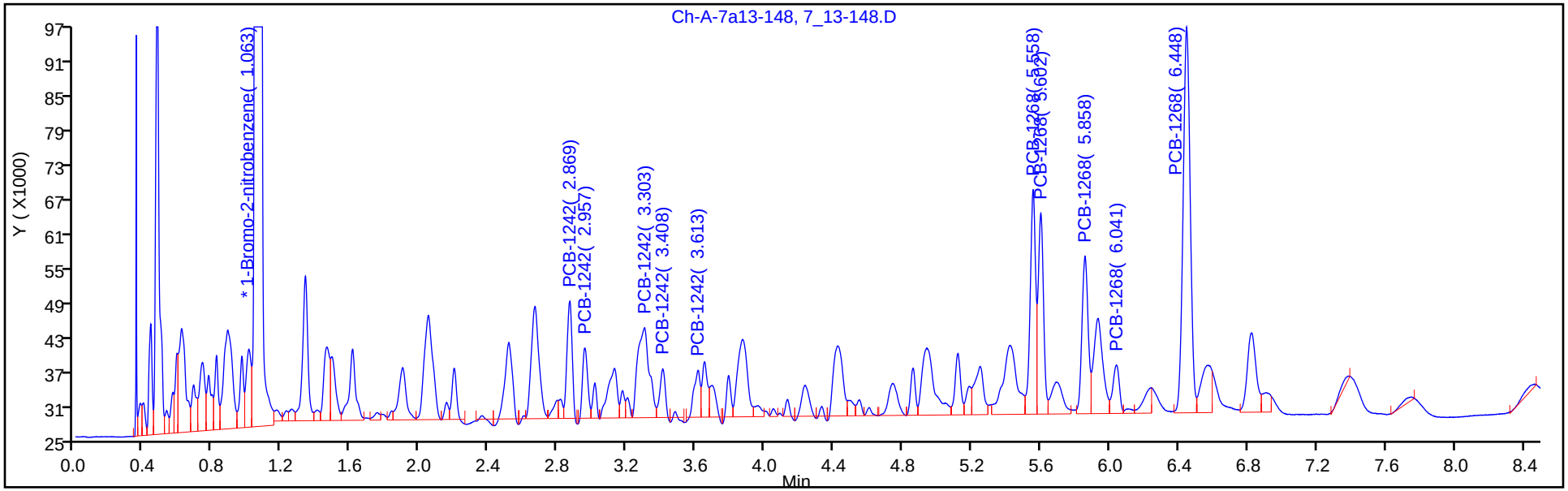
Report Date: 08-May-2018 17:50:37 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

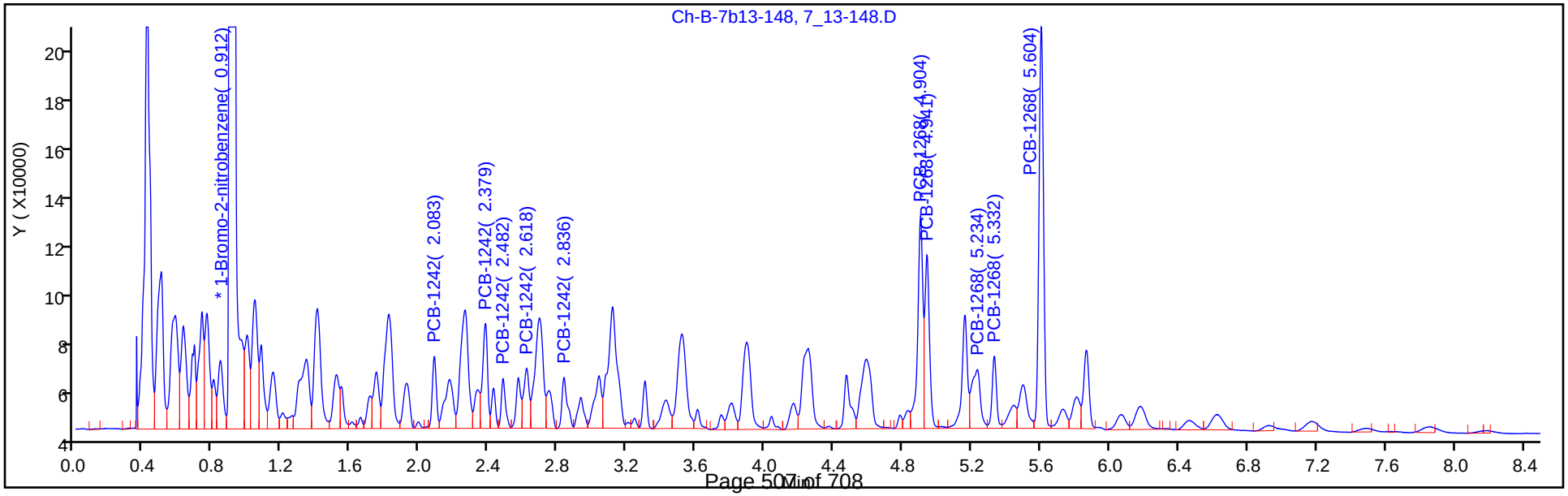
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-148.D

Injection Date:	07-May-2018 20:17:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 08-May-2018 17:50:37 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-148.D

Injection Date: 07-May-2018 20:17:08 Instrument ID: HP6890-7

Lims ID: IC

Client ID:

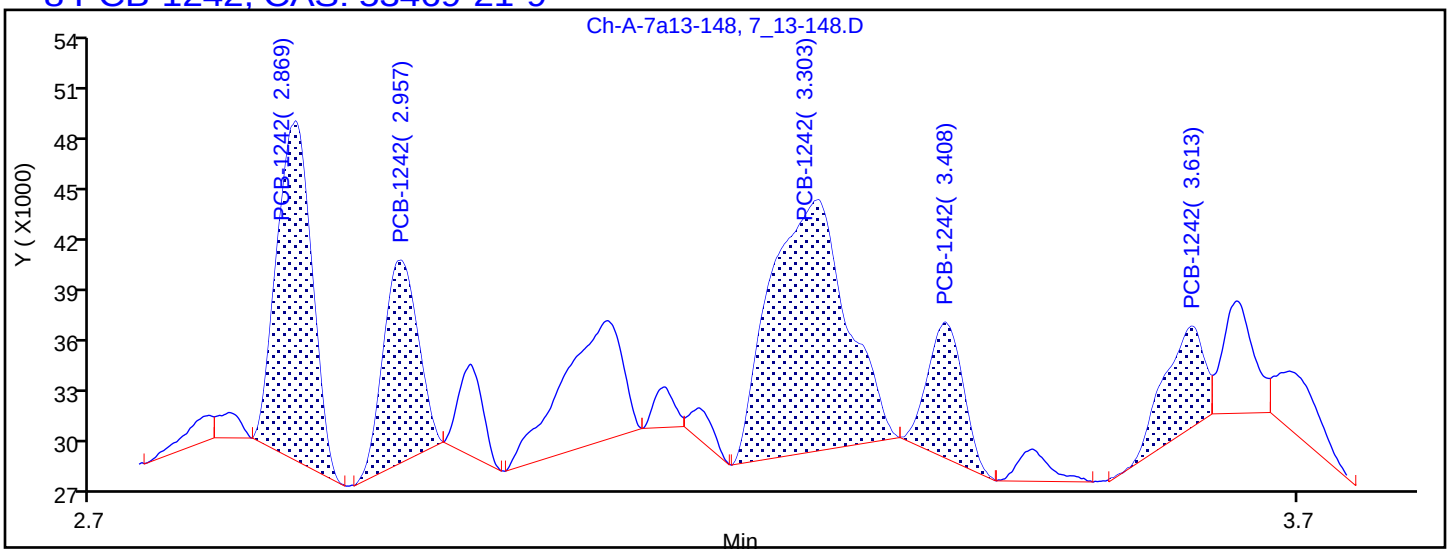
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

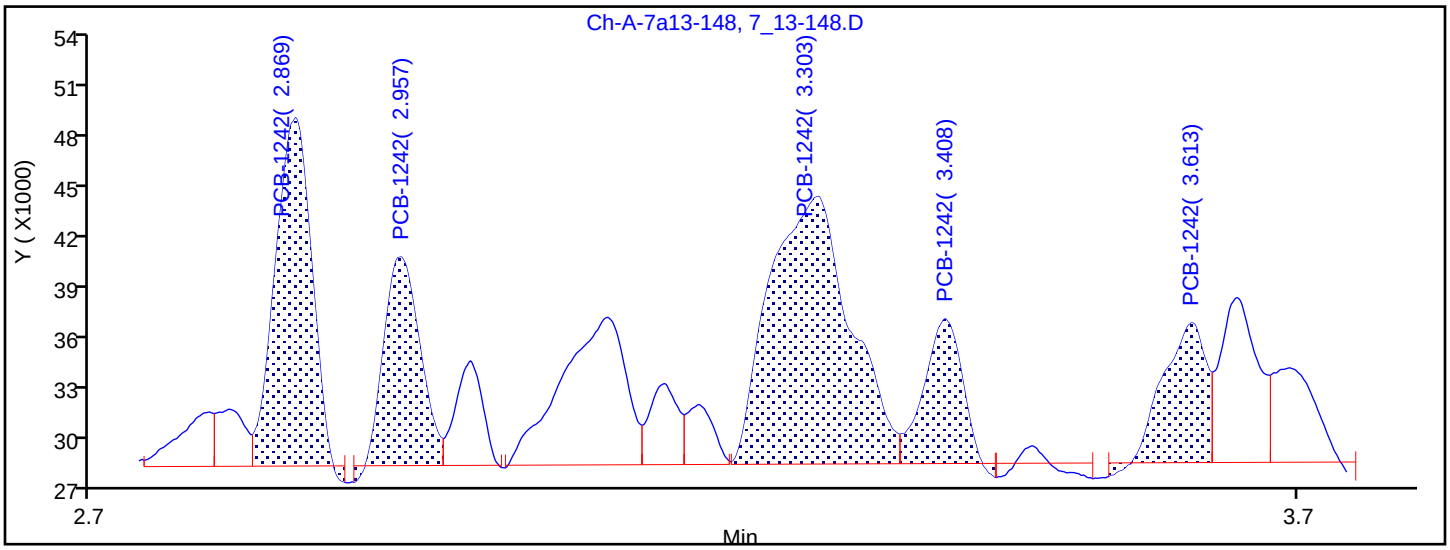
Column: Detector Ch-A-7A136

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

2.869	Response = 40512
2.957	Response = 24065
3.303	Response = 65810
3.408	Response = 16245
3.613	Response = 14220



Manual Integration Results

2.869	Response = 42469	M
2.957	Response = 25344	M
3.303	Response = 73756	M
3.408	Response = 18390	M
3.613	Response = 19702	M

Reviewer: salversonj, 08-May-2018 06:57:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 08-May-2018 17:50:37 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-148.D

Injection Date: 07-May-2018 20:17:08 Instrument ID: HP6890-7

Lims ID: IC

Client ID:

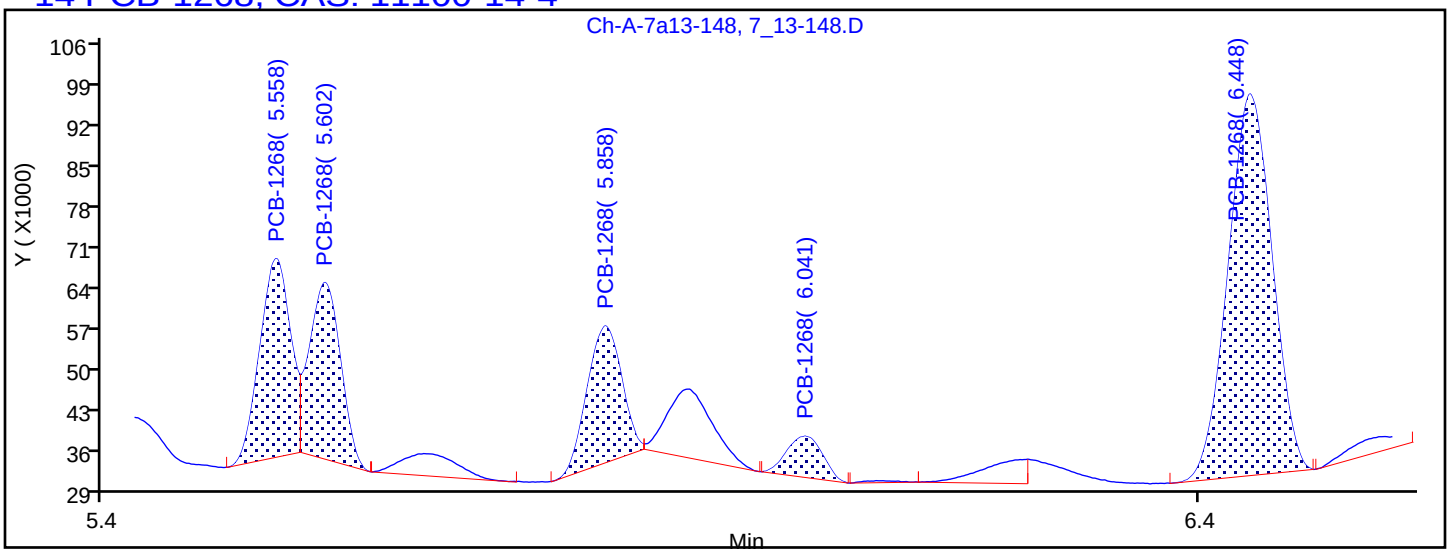
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

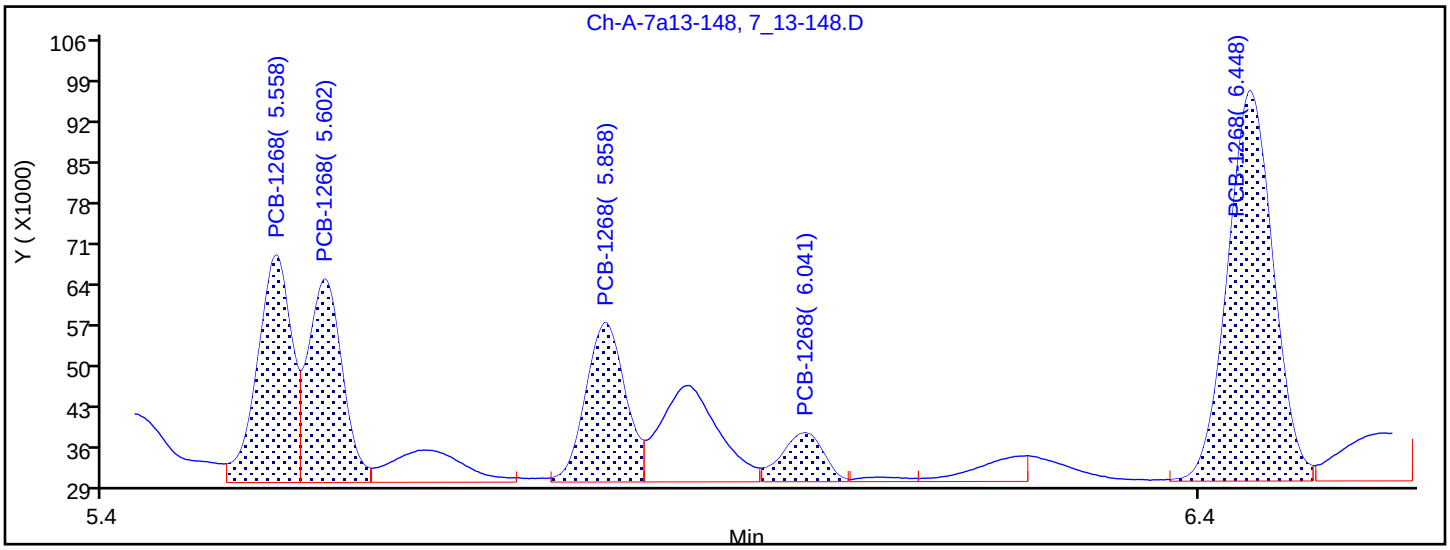
Column: Detector Ch-A-7A136

14 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.558	Response = 67306
5.602	Response = 60166
5.858	Response = 51908
6.041	Response = 16081
6.448	Response = 184199



Manual Integration Results

5.558	Response = 85642	M
5.602	Response = 76059	M
5.858	Response = 69571	M
6.041	Response = 22560	M
6.448	Response = 195378	M

Reviewer: salversonj, 08-May-2018 06:57:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 19:45 Calibration End Date: 05/07/2018 20:17 Calibration ID: 33778

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/26	7_13-148.D
Level 2	IC 480-413004/25	7_13-147.D
Level 3	IC 480-413004/24	7_13-146.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				B	M1	M2								
PCB-1242 Peak 1	0.0511	0.0386	0.0316			Lin1	0.0004	0.0326							0.9940		0.9900
PCB-1242 Peak 2	0.0904	0.0635	0.0568			Lin1	0.0007	0.0576							0.9980		0.9900
PCB-1242 Peak 3	0.0365	0.0310	0.0254			Ave		0.0310				17.8		20.0			
PCB-1242 Peak 4	0.0558	0.0174	0.0139			Lin1	0.0009	0.0139							0.9960		0.9900
PCB-1242 Peak 5	0.0474	0.0371	0.0310			Lin1	0.0004	0.0319							0.9950		0.9900
PCB-1268 Peak 1	0.1915	0.0978	0.0960			Lin1	0.0019	0.0949							1.0000		0.9900
PCB-1268 Peak 2	0.1386	0.1036	0.1013			Ave		0.1145				18.3		20.0			
PCB-1268 Peak 3	0.0884	0.0245	0.0220			Lin1	0.0013	0.0214							1.0000		0.9900
PCB-1268 Peak 4	0.0559	0.0392	0.0376			Lin1	0.0004	0.0376							1.0000		0.9900
PCB-1268 Peak 5	0.3198	0.2813	0.2913			Ave		0.2975				6.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 19:45 Calibration End Date: 05/07/2018 20:17 Calibration ID: 33778

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/26	7_13-148.D
Level 2	IC 480-413004/25	7_13-147.D
Level 3	IC 480-413004/24	7_13-146.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	46977	1001741	2754721			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	83091	1647245	4954237			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Ave	33538	803920	2217838			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	51269	451666	1209474			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	43560	961584	2699565			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Lin1	175998	2538616	8368814			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Ave	127422	2686613	8831757			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Lin1	81272	634766	1919165			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Lin1	51360	1017678	3278797			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Ave	293964	7298991	25388818			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-146.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-May-2018 19:45:20 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 17:37:52 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK051

First Level Reviewer: RudzG Date: 08-May-2018 17:28:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.063	0.000	10270141	0.5000	0.5000	
2	0.911	0.912	-0.001	21787984	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	2.869	2.869	0.000	3197737	2.00	1.76	
1	2.953	2.957	-0.005	1139564	2.00	1.94	
1	3.310	3.303	0.007	832730	2.00	2.02	
1	3.409	3.408	0.001	1008330	2.00	1.94	
1	3.614	3.613	0.002	1541224	2.00	1.78	
		Average of Peak Amounts =				1.89	
2	2.083	2.083	0.000	2754721	2.00	1.92	
2	2.379	2.379	0.000	4954237	2.00	1.96	
2	2.481	2.482	-0.001	2217838	2.00	1.64	
2	2.621	2.618	0.003	1209474	2.00	1.94	
2	2.835	2.836	-0.001	2699565	2.00	1.93	
		Average of Peak Amounts =				1.88	
						RPD = 0.36	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.557	5.558	-0.001	5659210	2.00	1.99	
1	5.601	5.602	-0.001	5221793	2.00	1.75	
1	5.859	5.858	0.001	4602534	2.00	1.99	
1	6.042	6.041	0.001	1902928	2.00	1.89	
1	6.448	6.448	0.000	15051200	2.00	1.83	
		Average of Peak Amounts =				1.89	
2	4.904	4.904	0.000	8368814	2.00	2.00	
2	4.943	4.941	0.001	8831757	2.00	1.77	
2	5.239	5.234	0.005	1919165	2.00	1.99	
2	5.333	5.332	0.000	3278797	2.00	1.99	
2	5.605	5.604	0.001	25388818	2.00	1.96	
		Average of Peak Amounts =				1.94	
						RPD = 2.71	

Reagents:

42-68w/IS@2.0_00009 Amount Added: 1.00 Units: mL

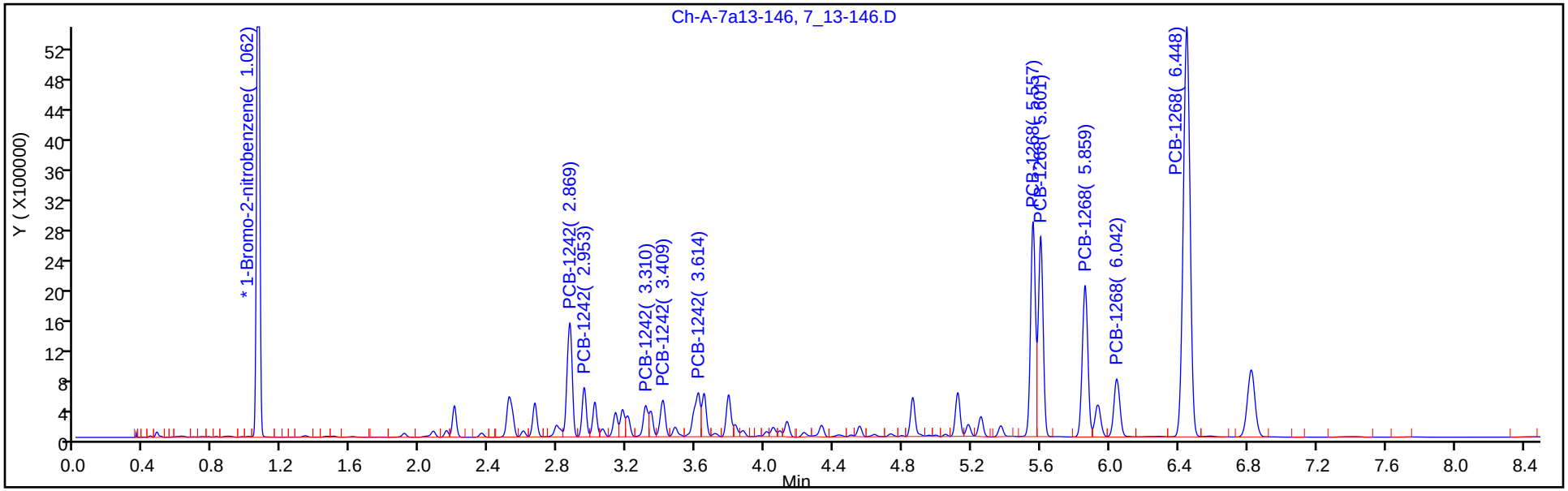
Report Date: 08-May-2018 17:37:53 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

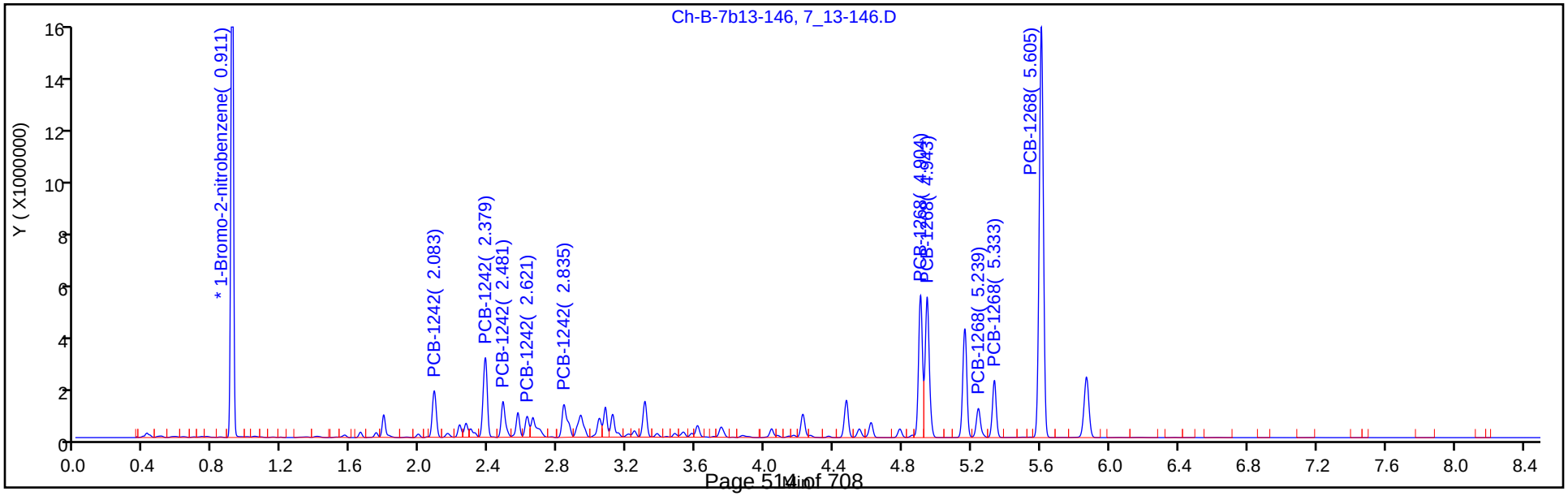
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-146.D

Injection Date:	07-May-2018 19:45:20	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-147.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-May-2018 20:01:18 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 17:37:55 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK051

First Level Reviewer: RudzG Date: 08-May-2018 17:32:00

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.063	1.063	0.000	11694372	0.5000	0.5000	
2	0.911	0.912	-0.001	25943992	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	2.870	2.869	0.001	1040800	0.5000	0.5019	
1	2.953	2.957	-0.004	386492	0.5000	0.5613	
1	3.311	3.303	0.008	279926	0.5000	0.4799	
1	3.410	3.408	0.002	338069	0.5000	0.5603	
1	3.615	3.613	0.003	505525	0.5000	0.5116	
		Average of Peak Amounts =				0.5230	
2	2.083	2.083	0.000	1001741	0.5000	0.5781	
2	2.379	2.379	0.000	1647245	0.5000	0.5389	
2	2.481	2.482	-0.001	803920	0.5000	0.5002	
2	2.621	2.618	0.003	451666	0.5000	0.5648	
2	2.834	2.836	-0.002	961584	0.5000	0.5697	
		Average of Peak Amounts =				0.5503	
						RPD = 5.09	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.558	5.558	0.000	1659298	0.5000	0.5065	
1	5.602	5.602	0.000	1537847	0.5000	0.4522	
1	5.859	5.858	0.001	1365402	0.5000	0.5113	
1	6.046	6.041	0.005	562345	0.5000	0.4904	
1	6.448	6.448	0.000	4401394	0.5000	0.4709	
		Average of Peak Amounts =				0.4863	
2	4.904	4.904	0.000	2538616	0.5000	0.4955	
2	4.943	4.941	0.002	2686613	0.5000	0.4522	
2	5.239	5.234	0.005	634766	0.5000	0.5080	
2	5.332	5.332	0.000	1017678	0.5000	0.5111	
2	5.604	5.604	0.000	7298991	0.5000	0.4728	
		Average of Peak Amounts =				0.4879	
						RPD = 0.34	

Reagents:

42-68w/IS@0.5_00021 Amount Added: 1.00 Units: mL

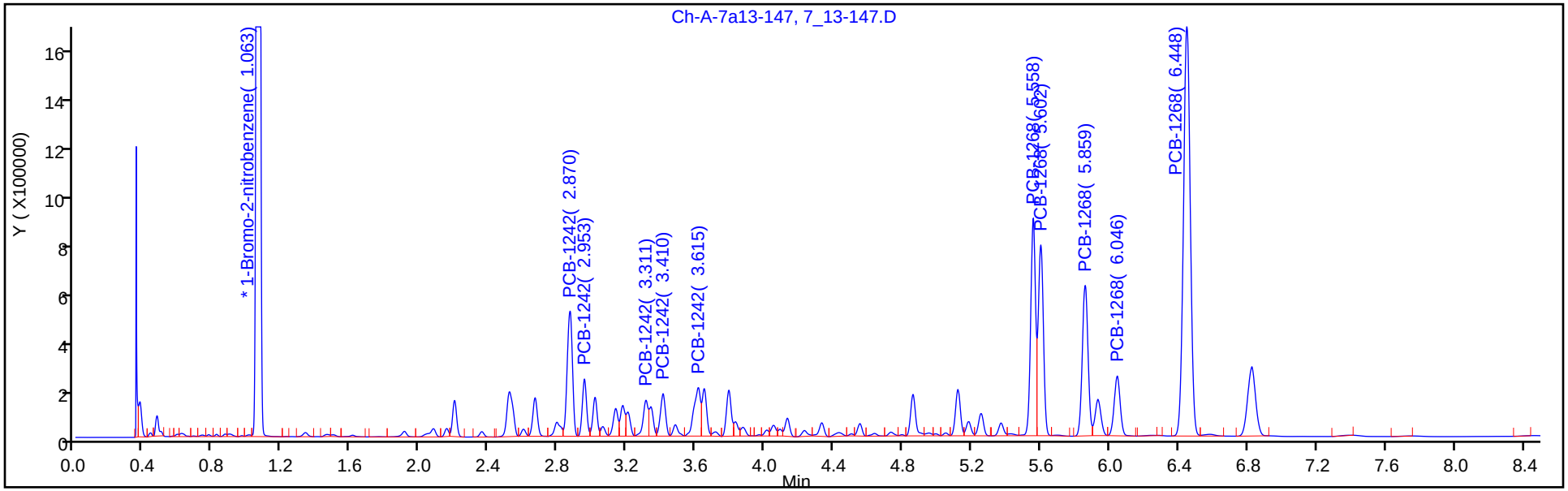
Report Date: 08-May-2018 17:37:56 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

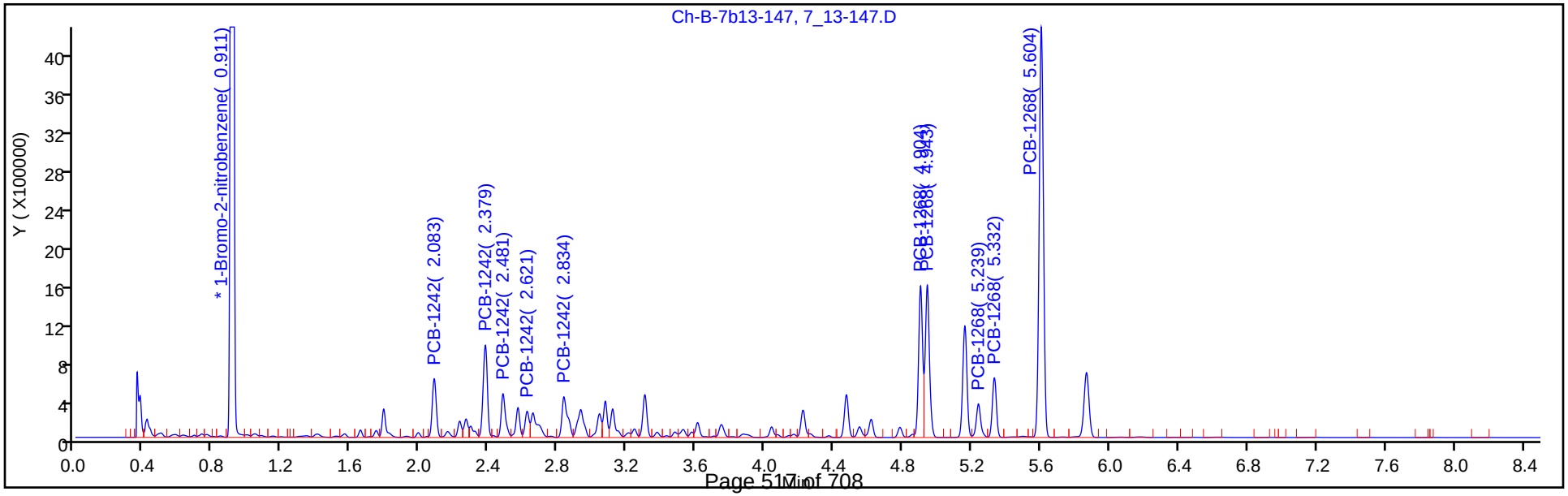
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-147.D

Injection Date:	07-May-2018 20:01:18	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-148.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-May-2018 20:17:08 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 17:50:36 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK051

First Level Reviewer: salversonj Date: 08-May-2018 06:57:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.063	1.063	0.000	10709020	0.5000	0.5000	
2	0.912	0.912	0.000	22977021	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							Ma
1	2.869	2.869	0.000	42469	0.0200	0.0224	M
1	2.957	2.957	0.000	25344	0.0200	0.0181	M
1	3.303	3.303	0.000	73756	0.0200	0.0206	M
1	3.408	3.408	0.000	18390	0.0200	0.0182	M
1	3.613	3.613	0.000	19702	0.0200	0.0218	M
		Average of Peak Amounts =				0.0202	
2	2.083	2.083	0.000	46977	0.0200	0.0176	
2	2.379	2.379	0.000	83091	0.0200	0.0188	
2	2.482	2.482	0.000	33538	0.0200	0.0236	
2	2.618	2.618	0.000	51269	0.0200	0.0180	a
2	2.836	2.836	0.000	43560	0.0200	0.0179	
		Average of Peak Amounts =				0.0192	
						RPD = 5.20	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							M
1	5.558	5.558	0.000	85642	0.0200	0.0198	M
1	5.602	5.602	0.000	76059	0.0200	0.0244	M
1	5.858	5.858	0.000	69571	0.0200	0.0197	M
1	6.041	6.041	0.000	22560	0.0200	0.0215	M
1	6.448	6.448	0.000	195378	0.0200	0.0228	M
		Average of Peak Amounts =				0.0216	
2	4.904	4.904	0.000	175998	0.0200	0.0201	
2	4.941	4.941	0.000	127422	0.0200	0.0242	
2	5.234	5.234	0.000	81272	0.0200	0.0198	
2	5.332	5.332	0.000	51360	0.0200	0.0197	
2	5.604	5.604	0.000	293964	0.0200	0.0215	
		Average of Peak Amounts =				0.0211	
						RPD = 2.74	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

42-68w/IS@.02_00009 Amount Added: 1.00 Units: mL

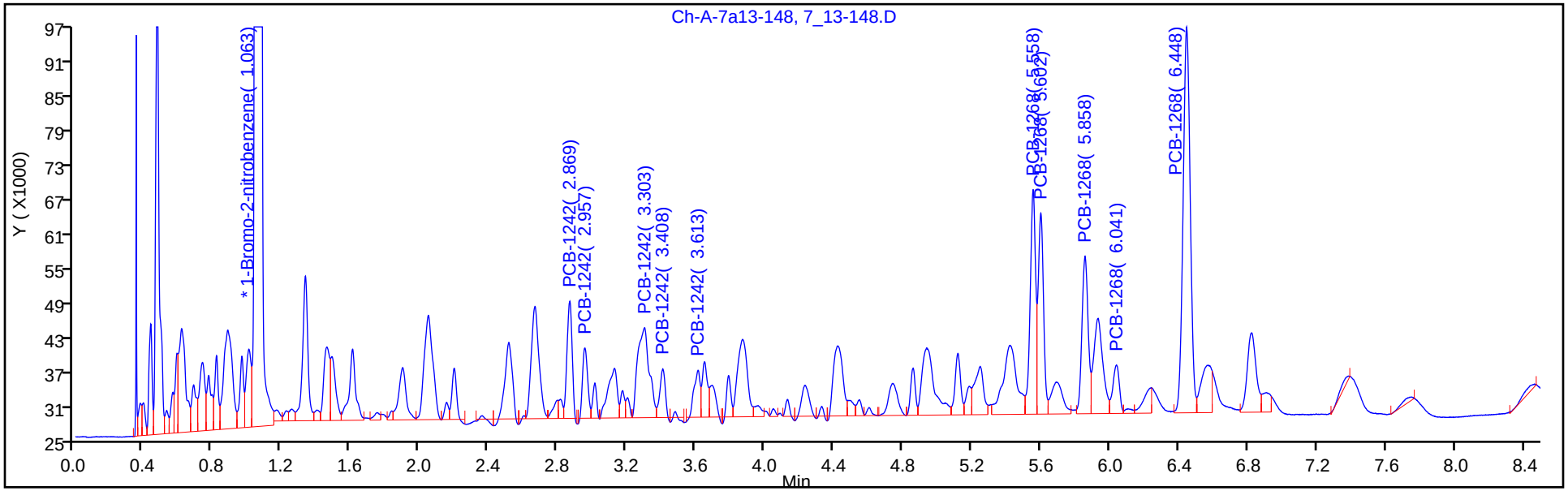
Report Date: 08-May-2018 17:50:37 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

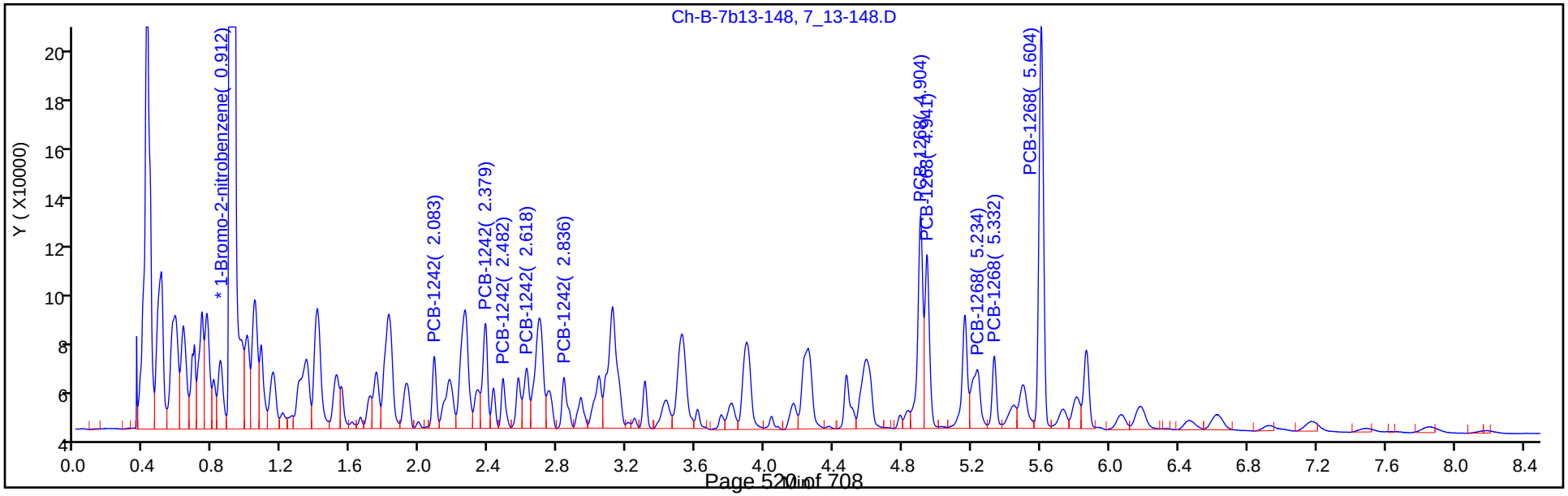
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-148.D

Injection Date:	07-May-2018 20:17:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 08-May-2018 17:50:37 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-148.D

Injection Date: 07-May-2018 20:17:08 Instrument ID: HP6890-7

Lims ID: IC

Client ID:

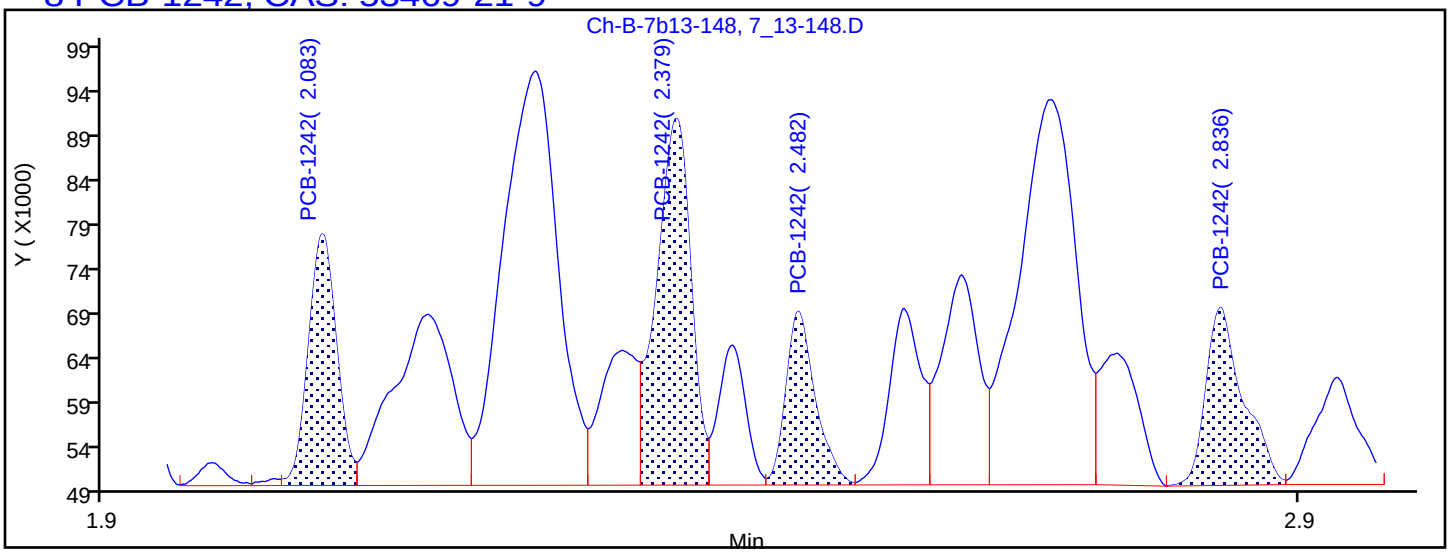
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

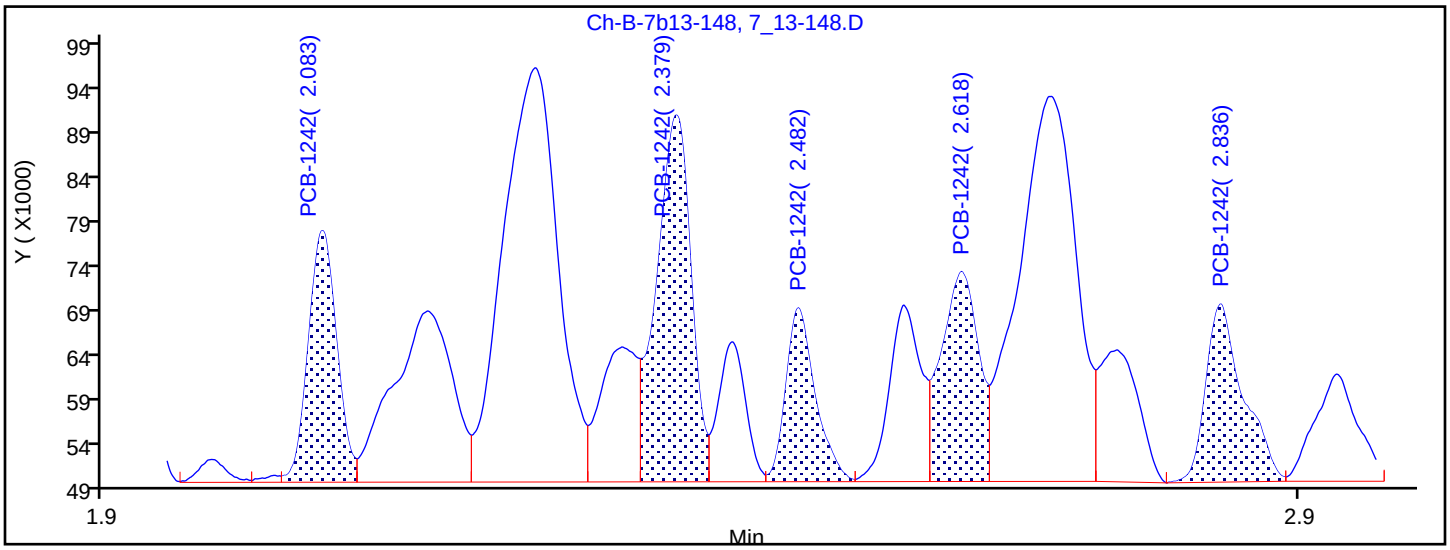
Column: Detector Ch-B-7b136

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

2.083	Response = 46977
2.379	Response = 83091
2.482	Response = 33538
2.618	Response = 0
2.836	Response = 43560



Manual Integration Results

2.083	Response = 46977	
2.379	Response = 83091	
2.482	Response = 33538	
2.618	Response = 51269	M
2.836	Response = 43560	

Reviewer: RudzG, 08-May-2018 17:31:15

Audit Action: Assigned Compound ID Audit Reason:

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 20:48 Calibration End Date: 05/07/2018 21:20 Calibration ID: 33783

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/30	7_13-152.D
Level 2	IC 480-413004/29	7_13-151.D
Level 3	IC 480-413004/28	7_13-150.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				B	M1	M2								
PCB-1248 Peak 1	0.1747	0.0481	0.0474			Lin1	0.0025	0.0455							0.9990		0.9900
PCB-1248 Peak 2	0.0535	0.0382	0.0390			Ave		0.0435				19.8		20.0			
PCB-1248 Peak 3	0.0527	0.0638	0.0671			Ave		0.0612				12.4		20.0			
PCB-1248 Peak 4	0.0379	0.0435	0.0454			Ave		0.0422				9.2		20.0			
PCB-1248 Peak 5	0.0540	0.0396	0.0423			Ave		0.0453				16.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 20:48 Calibration End Date: 05/07/2018 21:20 Calibration ID: 33783

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/30	7_13-152.D
Level 2	IC 480-413004/29	7_13-151.D
Level 3	IC 480-413004/28	7_13-150.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	69398	546061	1923926			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Ave	21240	432960	1584336			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Ave	20911	723686	2726034			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Ave	15041	493378	1842832			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Ave	21456	449476	1719569			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-150.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-May-2018 20:48:59 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:40:21 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 12:11:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.063	0.000	10156816	0.5000	0.5000	
2	0.911	0.912	-0.001	21783536	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.310	3.303	0.008	1923926	2.00	2.03	
1	3.409	3.407	0.002	1584336	2.00	1.79	
1	3.614	3.613	0.002	2726034	2.00	2.19	
1	3.649	3.647	0.002	1842832	2.00	2.15	
1	3.791	3.789	0.002	1719569	2.00	1.87	
		Average of Peak Amounts =				2.01	
2	2.081	2.081	0.000	1517221	2.00	1.99	
2	2.378	2.378	0.000	3440851	2.00	2.03	
2	2.932	2.933	0.000	3236071	2.00	1.82	
2	3.075	3.078	-0.003	3045612	2.00	2.03	
2	3.303	3.303	0.000	3682870	2.00	1.87	
		Average of Peak Amounts =				1.95	
						RPD = 2.82	

Reagents:

1248w/IS@ 2.0_00008 Amount Added: 1.00 Units: mL

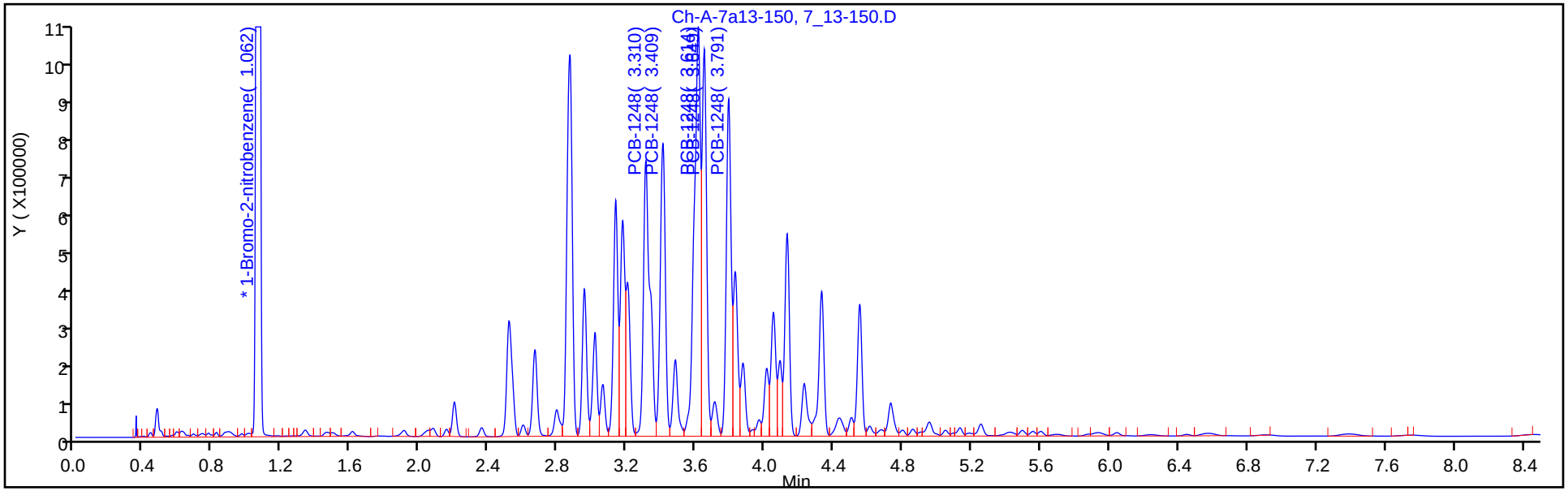
Report Date: 08-May-2018 12:40:22 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

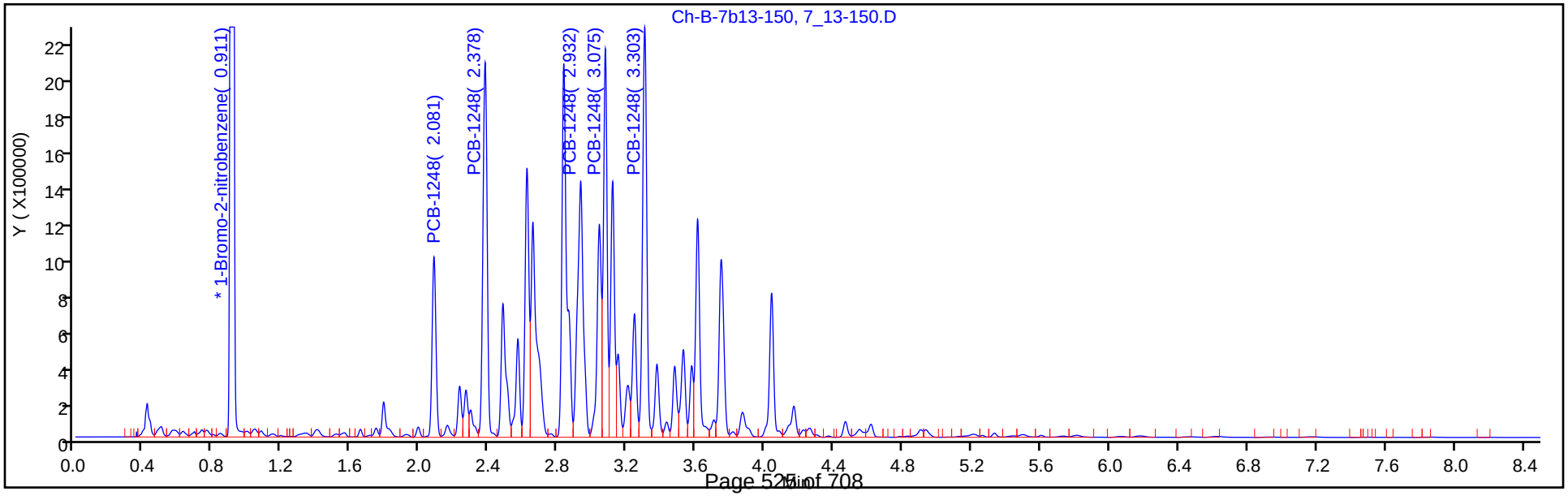
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-150.D

Injection Date:	07-May-2018 20:48:59	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-151.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-May-2018 21:05:04 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:40:25 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 12:11:54

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.063	0.000	11346098	0.5000	0.5000	
2	0.910	0.912	-0.002	25275531	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.310	3.303	0.008	546061	0.5000	0.4730	
1	3.410	3.407	0.003	432960	0.5000	0.4382	
1	3.615	3.613	0.003	723686	0.5000	0.5213	
1	3.650	3.647	0.003	493378	0.5000	0.5148	
1	3.792	3.789	0.003	449476	0.5000	0.4370	
		Average of Peak Amounts =				0.4769	
2	2.080	2.081	-0.001	455872	0.5000	0.5057	
2	2.378	2.378	0.000	941067	0.5000	0.4693	
2	2.932	2.933	0.000	916067	0.5000	0.4447	
2	3.075	3.078	-0.003	835494	0.5000	0.4713	
2	3.303	3.303	0.000	1002332	0.5000	0.4392	
		Average of Peak Amounts =				0.4660	
						RPD = 2.29	

Reagents:

1248w/IS@ 0.5_00021 Amount Added: 1.00 Units: mL

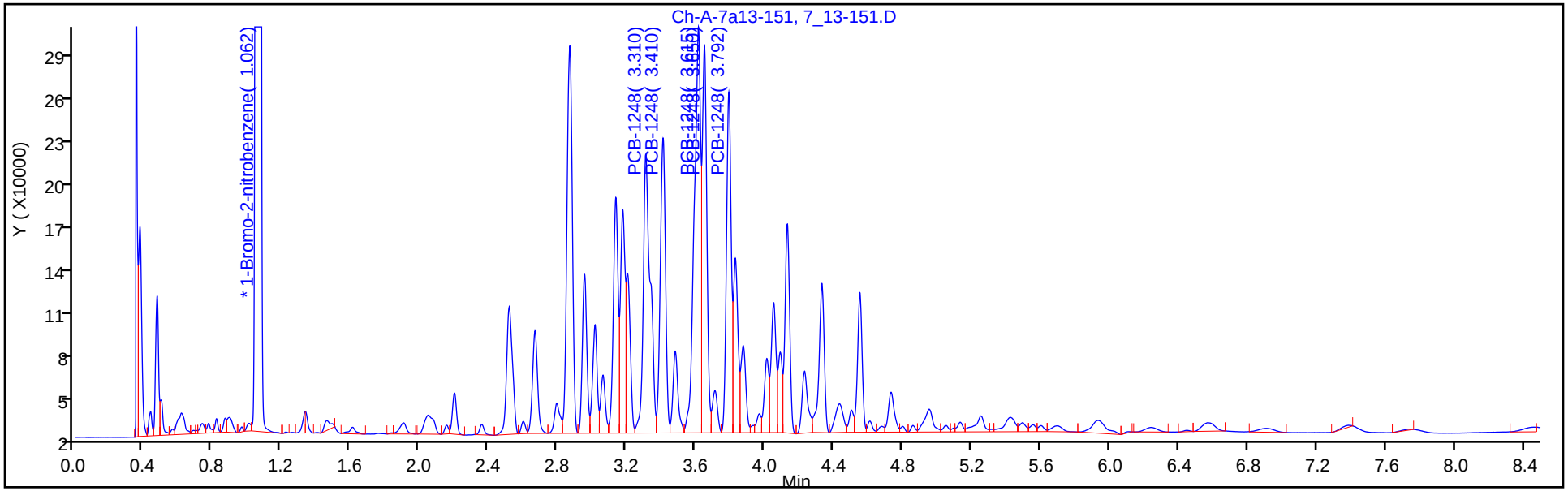
Report Date: 08-May-2018 12:40:25 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

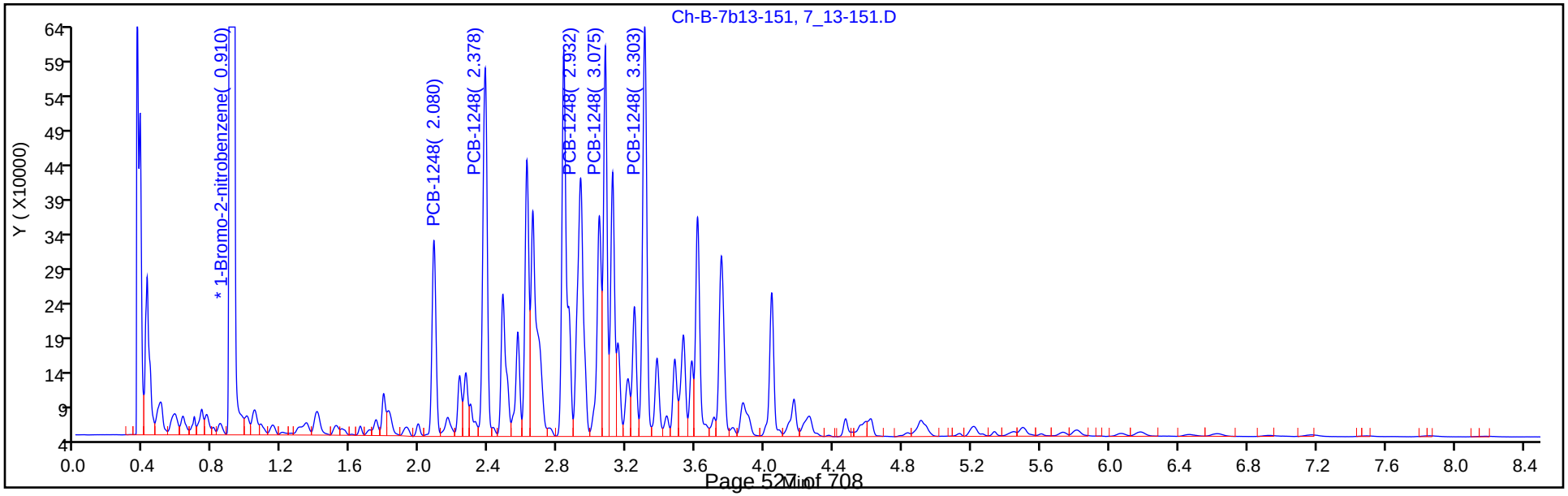
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-151.D

Injection Date:	07-May-2018 21:05:04	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-May-2018 21:20:53 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:40:27 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 06:57:52

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.061	1.061	0.000	9929106	0.5000	0.5000	
2	0.911	0.911	0.000	21105799	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.303	3.303	0.000	69398	0.0200	0.0208	
1	3.407	3.407	0.000	21240	0.0200	0.0246	
1	3.613	3.613	0.000	20911	0.0200	0.0172	
1	3.647	3.647	0.000	15041	0.0200	0.0179	
1	3.789	3.789	0.000	21456	0.0200	0.0238	
		Average of Peak Amounts =				0.0209	
2	2.081	2.081	0.000	25101	0.0200	0.0198	
2	2.378	2.378	0.000	53688	0.0200	0.0209	
2	2.933	2.933	0.000	41254	0.0200	0.0240	
2	3.078	3.078	0.000	45707	0.0200	0.0209	
2	3.303	3.303	0.000	45188	0.0200	0.0237	
		Average of Peak Amounts =				0.0219	
						RPD = 4.64	

Reagents:

1248w/IS@ .02_00008 Amount Added: 1.00 Units: mL

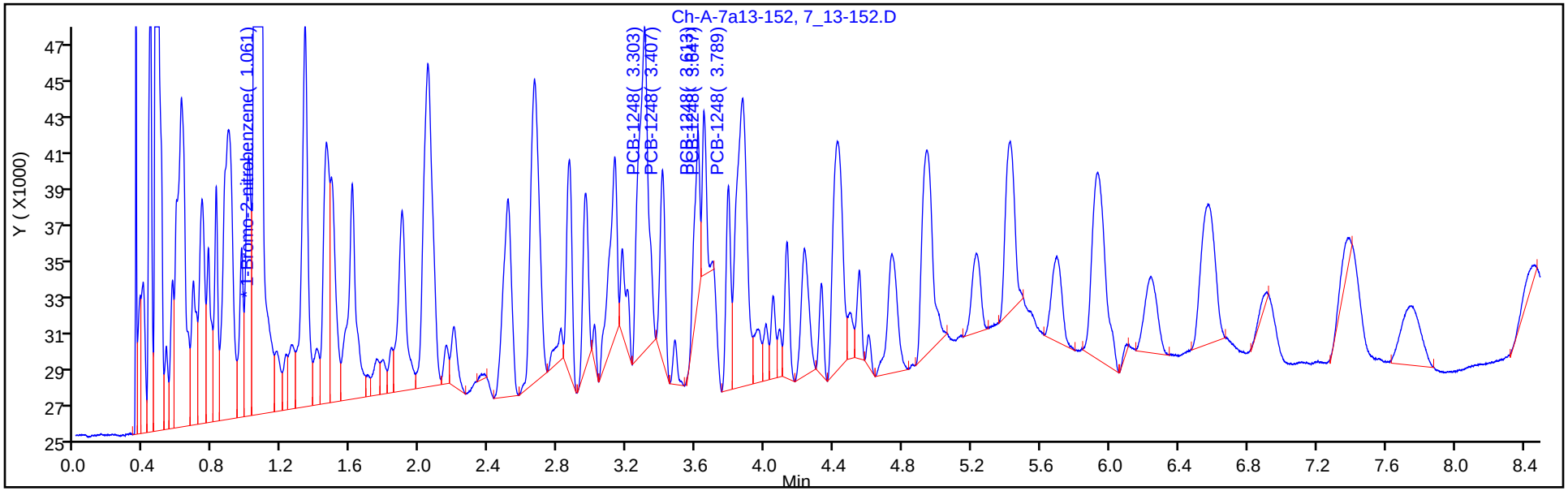
Report Date: 08-May-2018 12:40:28 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

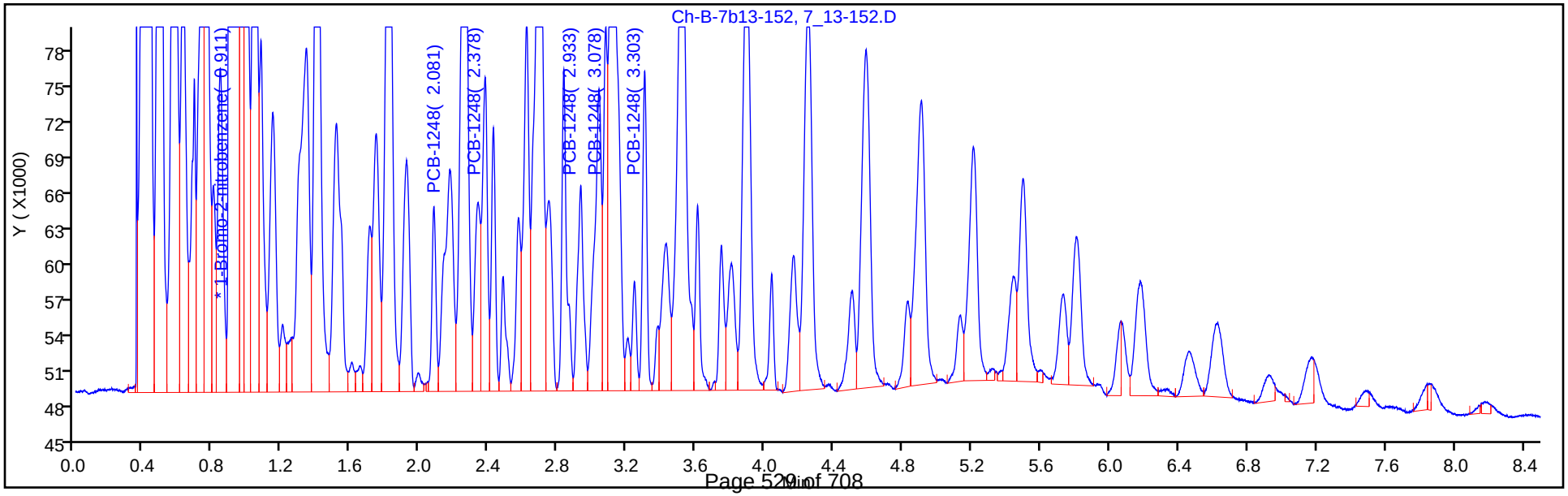
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Injection Date:	07-May-2018 21:20:53	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 20:48 Calibration End Date: 05/07/2018 21:20 Calibration ID: 33784

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/30	7_13-152.D
Level 2	IC 480-413004/29	7_13-151.D
Level 3	IC 480-413004/28	7_13-150.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				B	M1	M2								
PCB-1248 Peak 1	0.0297	0.0180	0.0174			Lin1	0.0003	0.0173							1.0000		0.9900
PCB-1248 Peak 2	0.0636	0.0372	0.0395			Lin1	0.0005	0.0387							0.9990		0.9900
PCB-1248 Peak 3	0.0489	0.0362	0.0371			Ave		0.0407				17.3		20.0			
PCB-1248 Peak 4	0.0541	0.0331	0.0350			Lin1	0.0004	0.0343							0.9990		0.9900
PCB-1248 Peak 5	0.0535	0.0397	0.0423			Ave		0.0451				16.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 413004

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2018 20:48 Calibration End Date: 05/07/2018 21:20 Calibration ID: 33784

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413004/30	7_13-152.D
Level 2	IC 480-413004/29	7_13-151.D
Level 3	IC 480-413004/28	7_13-150.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	25101	455872	1517221			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Lin1	53688	941067	3440851			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Ave	41254	916067	3236071			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Lin1	45707	835494	3045612			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Ave	45188	1002332	3682870			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-150.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-May-2018 20:48:59 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:40:21 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 12:11:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.063	0.000	10156816	0.5000	0.5000	
2	0.911	0.912	-0.001	21783536	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.310	3.303	0.008	1923926	2.00	2.03	
1	3.409	3.407	0.002	1584336	2.00	1.79	
1	3.614	3.613	0.002	2726034	2.00	2.19	
1	3.649	3.647	0.002	1842832	2.00	2.15	
1	3.791	3.789	0.002	1719569	2.00	1.87	
		Average of Peak Amounts =				2.01	
2	2.081	2.081	0.000	1517221	2.00	1.99	
2	2.378	2.378	0.000	3440851	2.00	2.03	
2	2.932	2.933	0.000	3236071	2.00	1.82	
2	3.075	3.078	-0.003	3045612	2.00	2.03	
2	3.303	3.303	0.000	3682870	2.00	1.87	
		Average of Peak Amounts =				1.95	
						RPD = 2.82	

Reagents:

1248w/IS@ 2.0_00008 Amount Added: 1.00 Units: mL

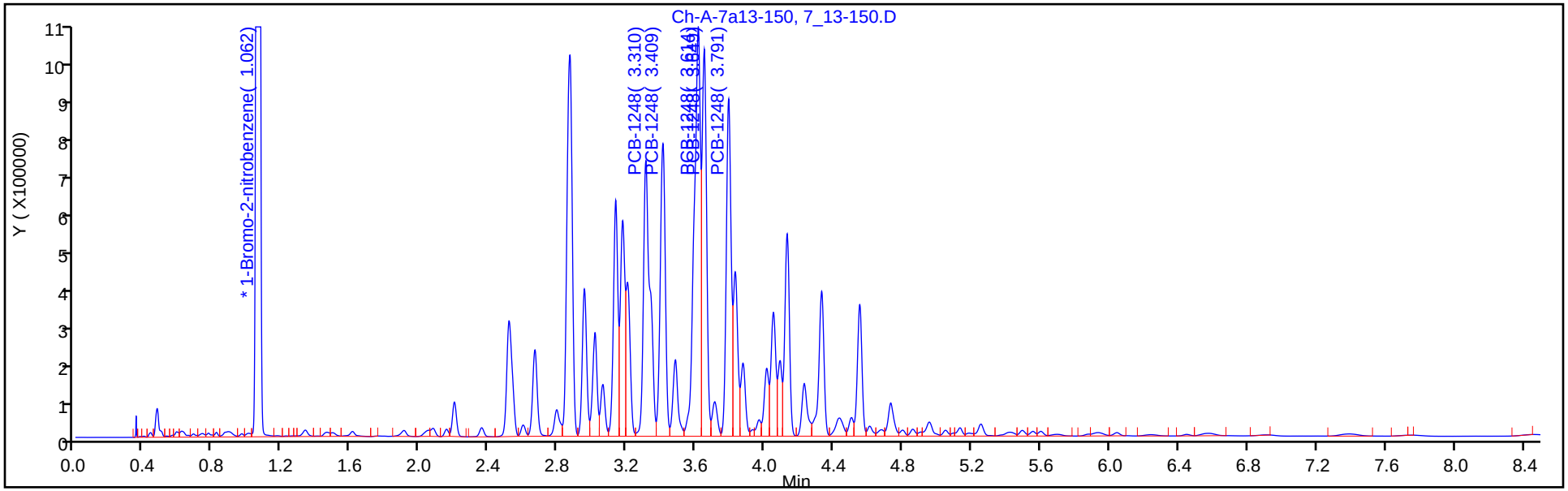
Report Date: 08-May-2018 12:40:22 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

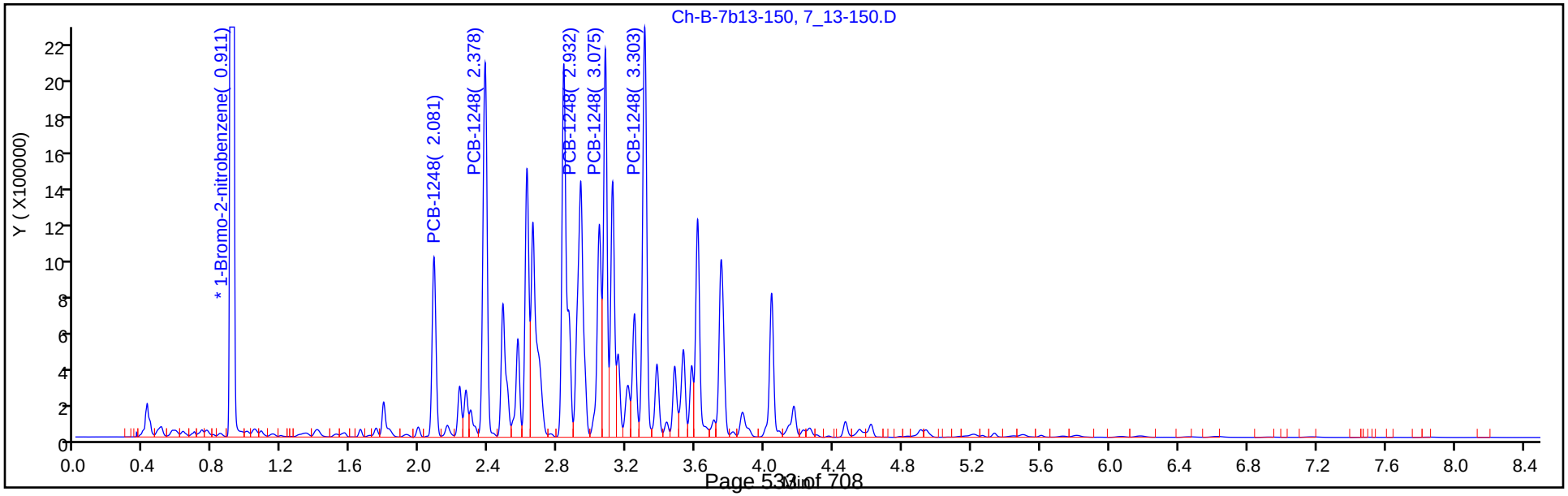
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-150.D

Injection Date:	07-May-2018 20:48:59	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-151.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-May-2018 21:05:04 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:40:25 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 12:11:54

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.062	1.063	0.000	11346098	0.5000	0.5000	
2	0.910	0.912	-0.002	25275531	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.310	3.303	0.008	546061	0.5000	0.4730	
1	3.410	3.407	0.003	432960	0.5000	0.4382	
1	3.615	3.613	0.003	723686	0.5000	0.5213	
1	3.650	3.647	0.003	493378	0.5000	0.5148	
1	3.792	3.789	0.003	449476	0.5000	0.4370	
		Average of Peak Amounts =				0.4769	
2	2.080	2.081	-0.001	455872	0.5000	0.5057	
2	2.378	2.378	0.000	941067	0.5000	0.4693	
2	2.932	2.933	0.000	916067	0.5000	0.4447	
2	3.075	3.078	-0.003	835494	0.5000	0.4713	
2	3.303	3.303	0.000	1002332	0.5000	0.4392	
		Average of Peak Amounts =				0.4660	
						RPD = 2.29	

Reagents:

1248w/IS@ 0.5_00021 Amount Added: 1.00 Units: mL

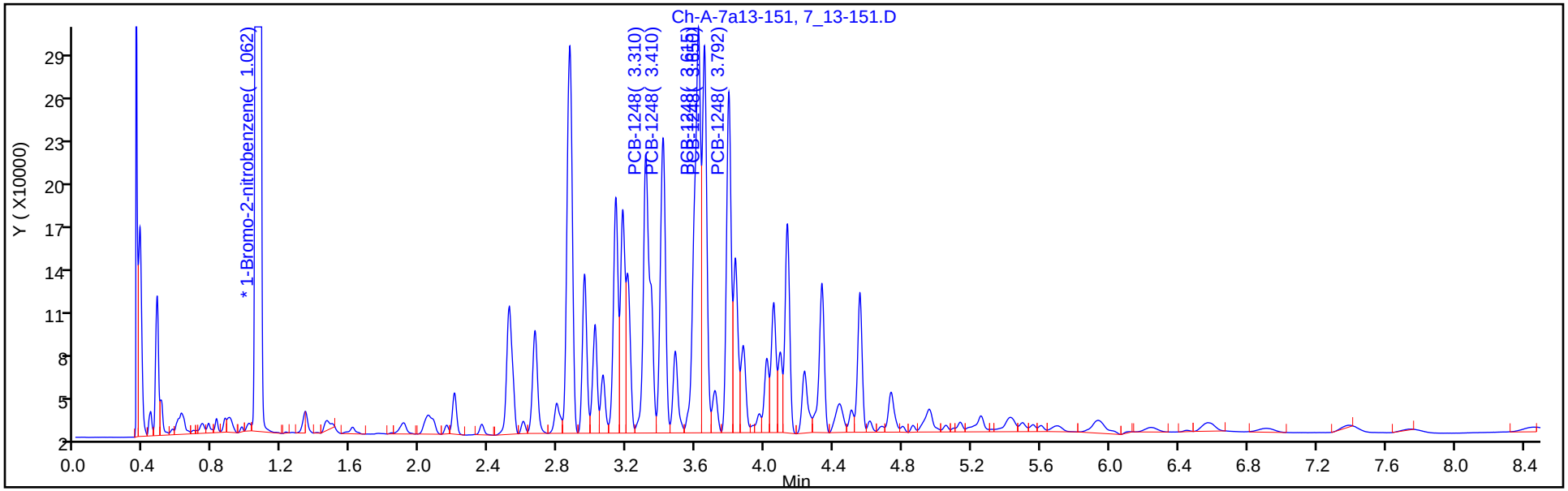
Report Date: 08-May-2018 12:40:25 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

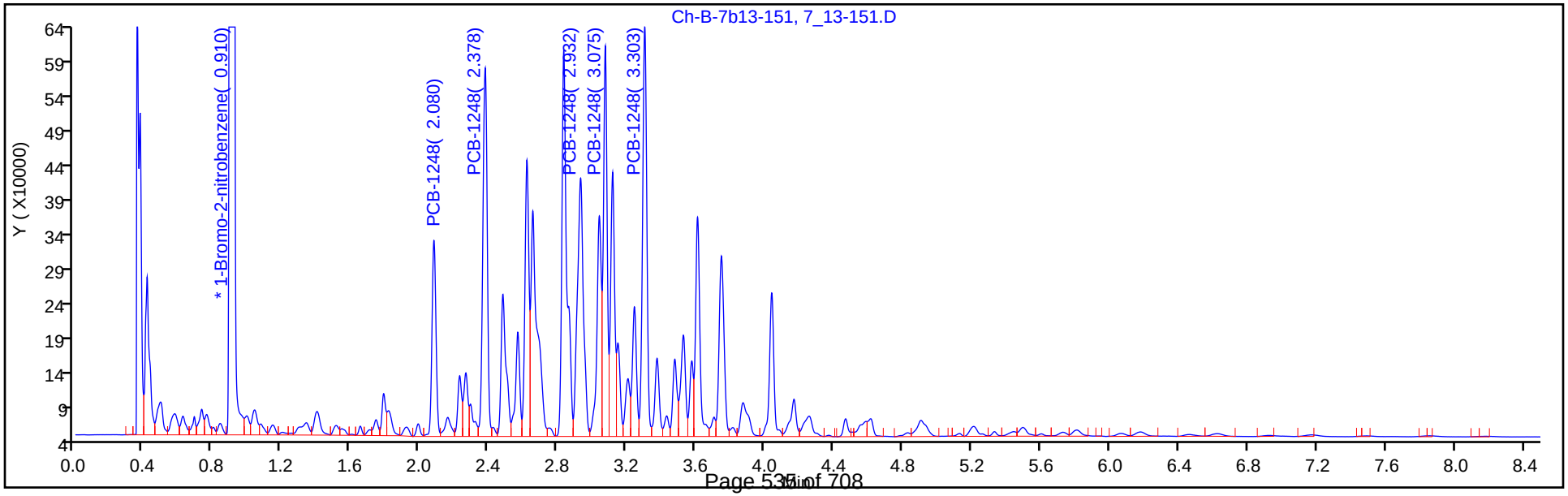
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-151.D

Injection Date:	07-May-2018 21:05:04	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-May-2018 21:20:53 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 08-May-2018 12:40:27 Calib Date: 07-May-2018 21:20:53
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK017

First Level Reviewer: salversonj Date: 08-May-2018 06:57:52

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.061	1.061	0.000	9929106	0.5000	0.5000	
2	0.911	0.911	0.000	21105799	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.303	3.303	0.000	69398	0.0200	0.0208	
1	3.407	3.407	0.000	21240	0.0200	0.0246	
1	3.613	3.613	0.000	20911	0.0200	0.0172	
1	3.647	3.647	0.000	15041	0.0200	0.0179	
1	3.789	3.789	0.000	21456	0.0200	0.0238	
		Average of Peak Amounts =				0.0209	
2	2.081	2.081	0.000	25101	0.0200	0.0198	
2	2.378	2.378	0.000	53688	0.0200	0.0209	
2	2.933	2.933	0.000	41254	0.0200	0.0240	
2	3.078	3.078	0.000	45707	0.0200	0.0209	
2	3.303	3.303	0.000	45188	0.0200	0.0237	
		Average of Peak Amounts =				0.0219	
						RPD = 4.64	

Reagents:

1248w/IS@ .02_00008 Amount Added: 1.00 Units: mL

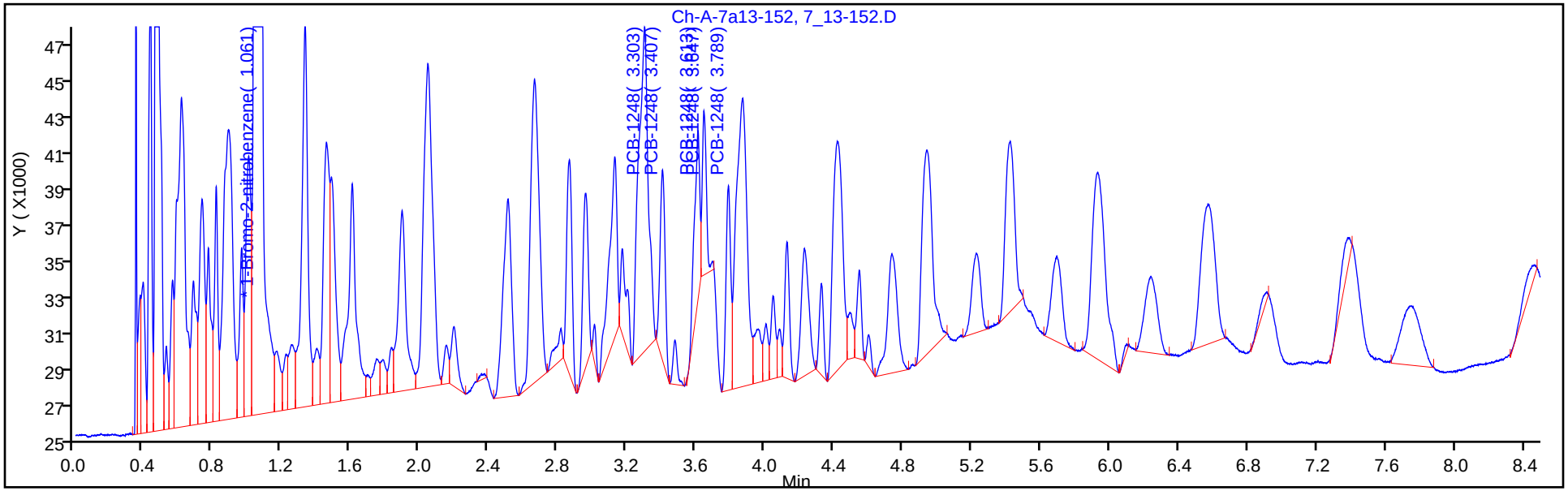
Report Date: 08-May-2018 12:40:28 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

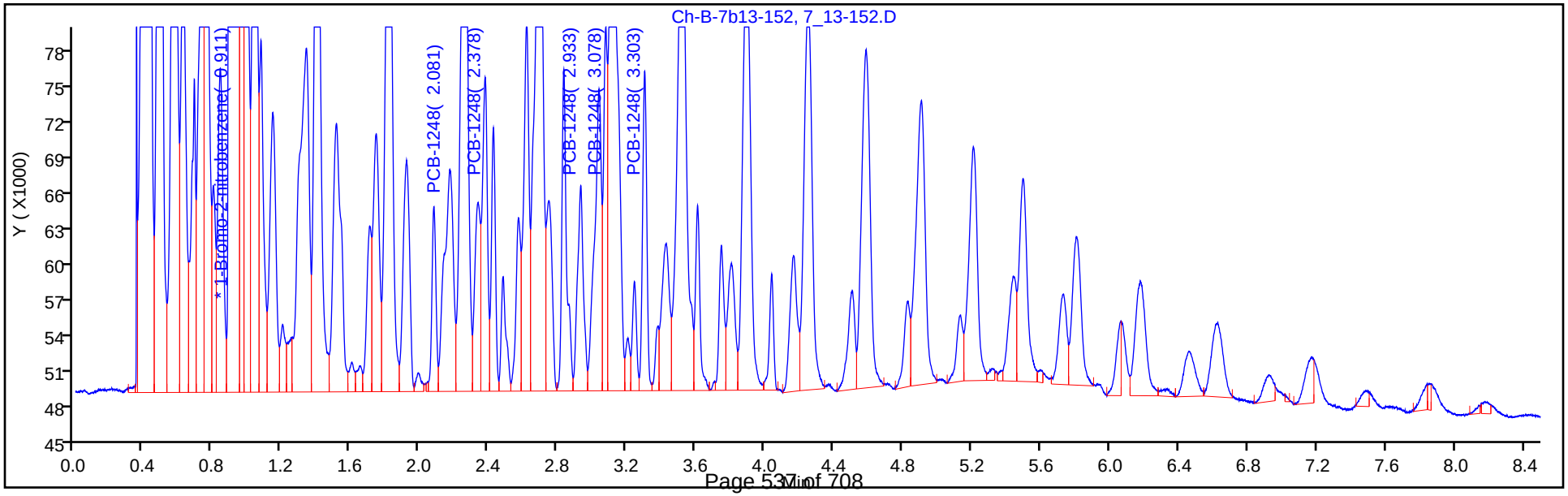
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180507-71316.b\7_13-152.D

Injection Date:	07-May-2018 21:20:53	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 434717

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2018 15:22 Calibration End Date: 09/17/2018 16:42 Calibration ID: 34896

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-434717/16	7_26-061.D
Level 2	IC 480-434717/15	7_26-060.D
Level 3	IC 480-434717/14	7_26-059.D
Level 4	IC 480-434717/13	7_26-058.D
Level 5	IC 480-434717/12	7_26-057.D
Level 6	IC 480-434717/11	7_26-056.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrachloro-m-xylene	1.4089 1.1714	1.3658	1.3436	1.2970	1.2329	Lin1	0.0004	1.1943							0.9980		0.9900
DCB Decachlorobiphenyl	0.8789 0.7558	0.8429	0.7870	0.7856	0.7503	Lin1	0.0002	0.7521							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 434717

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2018 15:22 Calibration End Date: 09/17/2018 16:42 Calibration ID: 34896

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-434717/16	7_26-061.D
Level 2	IC 480-434717/15	7_26-060.D
Level 3	IC 480-434717/14	7_26-059.D
Level 4	IC 480-434717/13	7_26-058.D
Level 5	IC 480-434717/12	7_26-057.D
Level 6	IC 480-434717/11	7_26-056.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Tetrachloro-m-xylene	BNB	Lin1	51266 1808468	100122	196551	478618	944979	0.00125 0.0500	0.00250	0.00500	0.0125	0.0250
DCB Decachlorobiphenyl	BNB	Lin1	31982 1166903	61785	115128	289910	575035	0.00125 0.0500	0.00250	0.00500	0.0125	0.0250

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-056.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 17-Sep-2018 15:22:01 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:11 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 17-Sep-2018 15:43:33

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.008	0.999	0.009	15438584	0.5000	0.5000	
2	0.850	0.854	-0.004	37587353	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.872	1.856	0.016	1808468	0.0500	0.0487	
2	1.356	1.363	-0.006	4244938	0.0500	0.0481	
						RPD = 1.13	
$ 15 DCB Decachlorobiphenyl							
1	6.663	6.633	0.029	1166903	0.0500	0.0500	
2	5.724	5.720	0.004	1719470	0.0500	0.0487	
						RPD = 2.61	

Reagents:

8082_SURG.STK_00020 Amount Added: 0.25 Units: uL
PCB IS 1B2NB_00046 Amount Added: 10.00 Units: uL Run Reagent

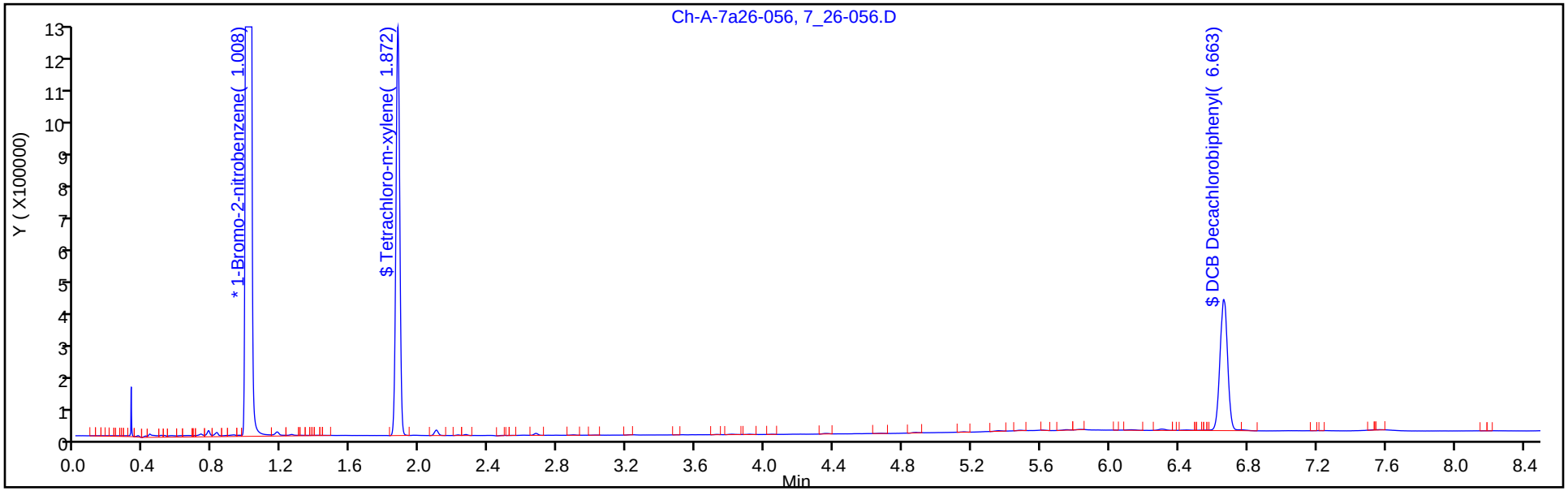
Report Date: 18-Sep-2018 13:40:11 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

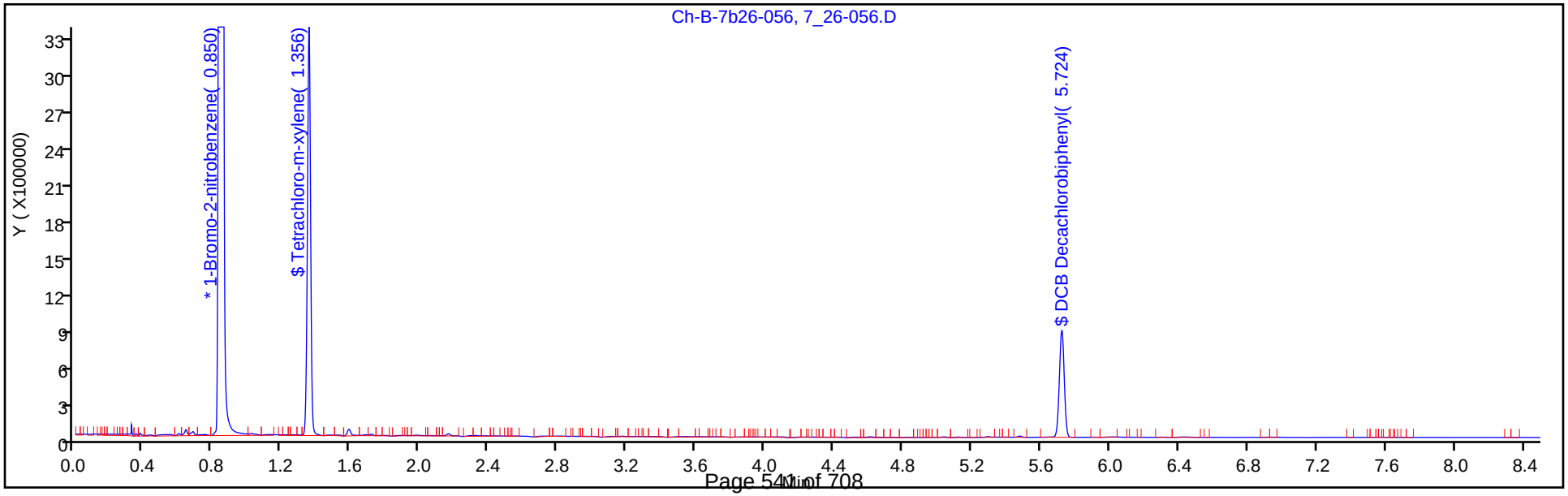
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-056.D

Injection Date:	17-Sep-2018 15:22:01	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-057.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 17-Sep-2018 15:38:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:13 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 18-Sep-2018 09:09:13

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.001	0.999	0.002	15329005	0.5000	0.5000	
2	0.853	0.854	-0.001	36319214	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.858	1.856	0.002	944979	0.0250	0.0255	
2	1.361	1.363	-0.001	2223292	0.0250	0.0258	
						RPD = 1.48	
$ 15 DCB Decachlorobiphenyl							
1	6.640	6.633	0.007	575035	0.0250	0.0247	
2	5.720	5.720	0.000	862883	0.0250	0.0249	
						RPD = 0.66	

Reagents:

8082_SURG.STK_00020 Amount Added: 0.13 Units: uL
PCB IS 1B2NB_00046 Amount Added: 10.00 Units: uL Run Reagent

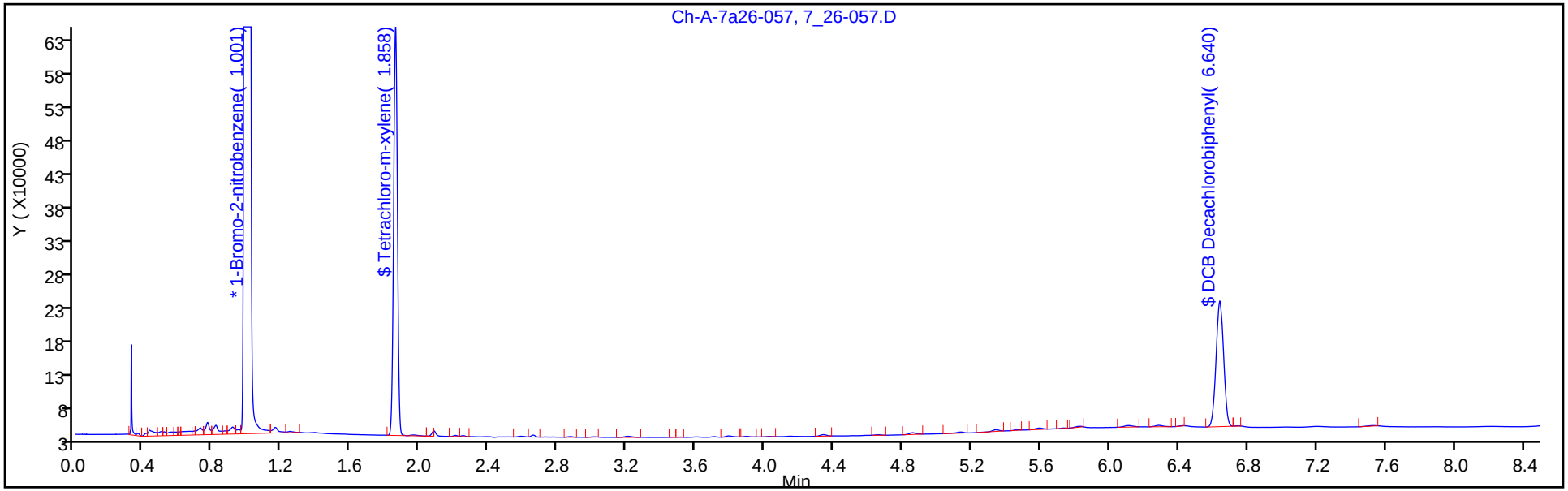
Report Date: 18-Sep-2018 13:40:13 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

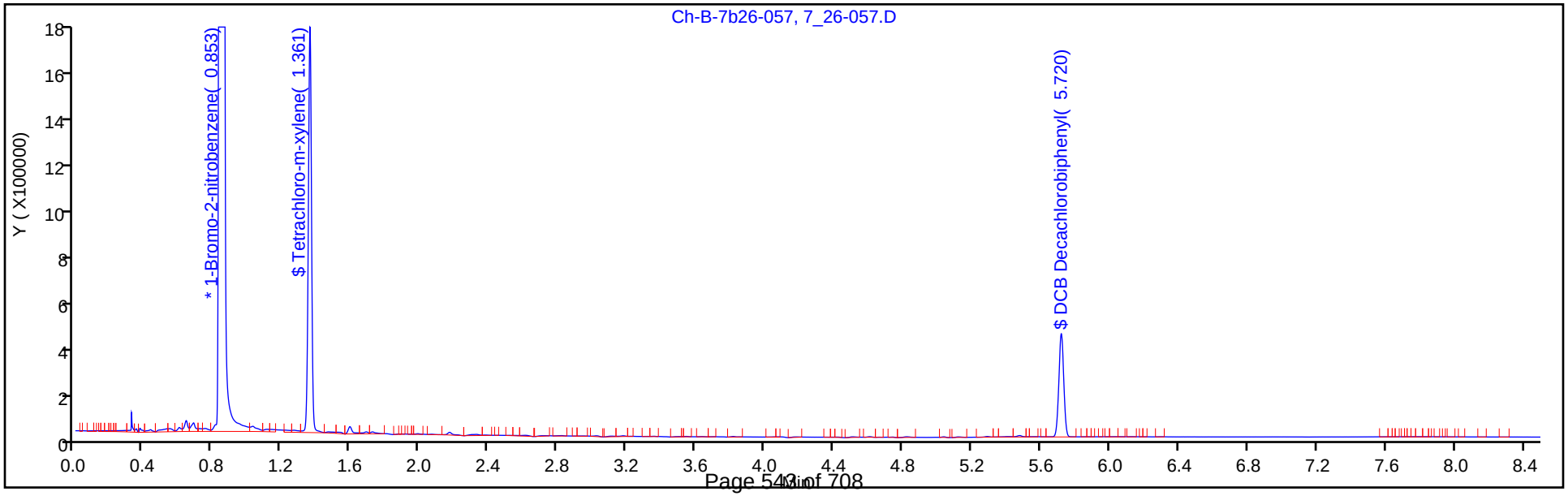
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-057.D

Injection Date:	17-Sep-2018 15:38:00	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-058.D
Lims ID: IC 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Sep-2018 15:53:59 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:15 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 18-Sep-2018 09:09:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.999	0.999	0.000	14760618	0.5000	0.5000	
2	0.853	0.854	-0.002	33315020	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.855	1.856	-0.001	478618	0.0125	0.0132	
2	1.361	1.363	-0.001	1080564	0.0125	0.0134	
						RPD = 1.50	
$ 15 DCB Decachlorobiphenyl							
1	6.634	6.633	0.001	289910	0.0125	0.0128	
2	5.718	5.720	-0.002	443922	0.0125	0.0135	
						RPD = 5.51	

Reagents:

8082_SURG.STK_00020 Amount Added: 0.06 Units: uL
PCB IS 1B2NB_00046 Amount Added: 10.00 Units: uL Run Reagent

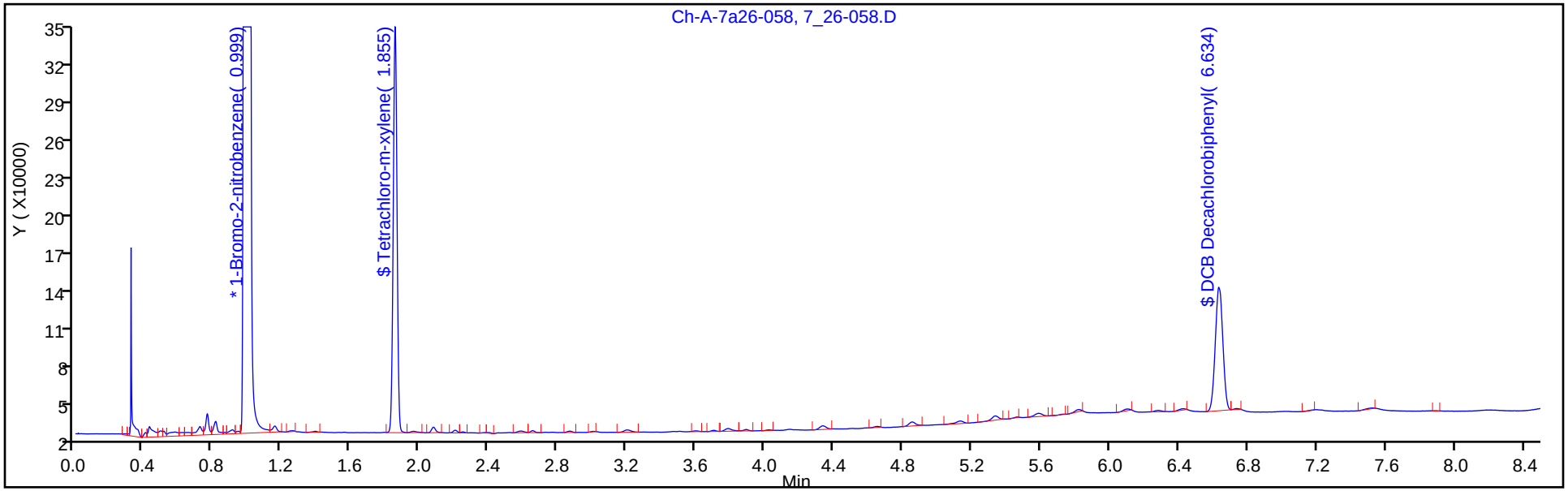
Report Date: 18-Sep-2018 13:40:15 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

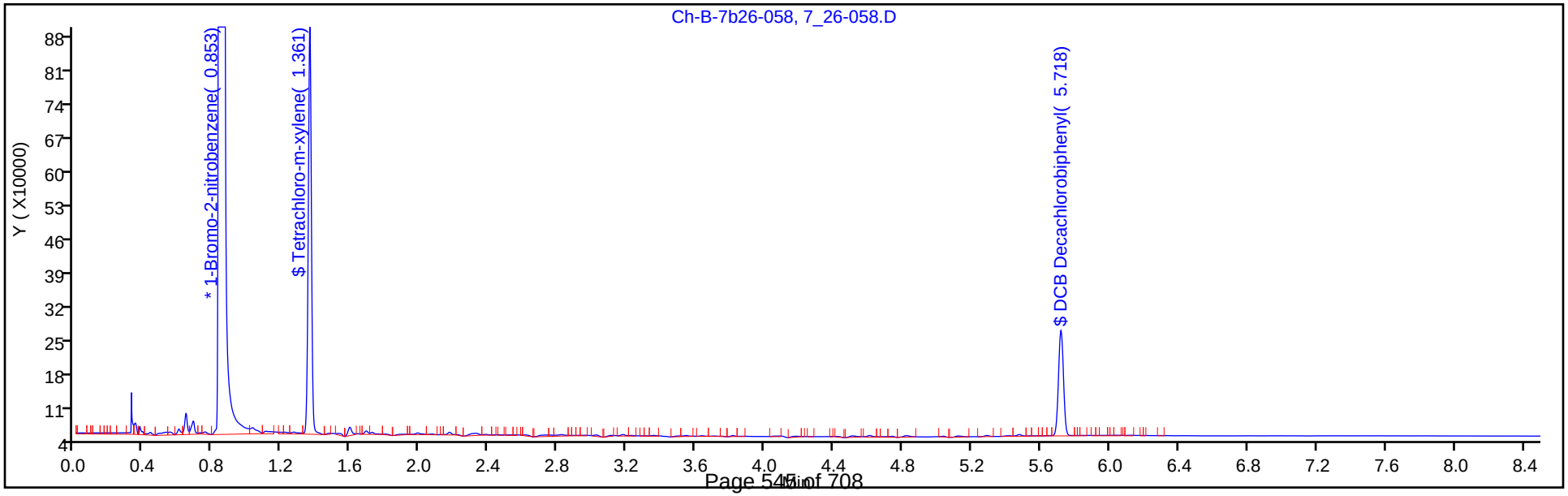
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-058.D

Injection Date:	17-Sep-2018 15:53:59	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 5			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-059.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Sep-2018 16:09:54 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:18 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 17-Sep-2018 16:40:42

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.998	0.999	-0.001	14628610	0.5000	0.5000	
2	0.852	0.854	-0.002	32741391	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.854	1.856	-0.002	196551	0.005000	0.005270	
2	1.360	1.363	-0.002	437712	0.005000	0.005196	M
						RPD = 1.41	
$ 15 DCB Decachlorobiphenyl							
1	6.635	6.633	0.002	115128	0.005000	0.004984	
2	5.720	5.720	0.000	194773	0.005000	0.005532	
						RPD = 10.43	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8082_SURG.STK_00020	Amount Added: 0.03	Units: uL	
PCB IS 1B2NB_00046	Amount Added: 10.00	Units: uL	Run Reagent

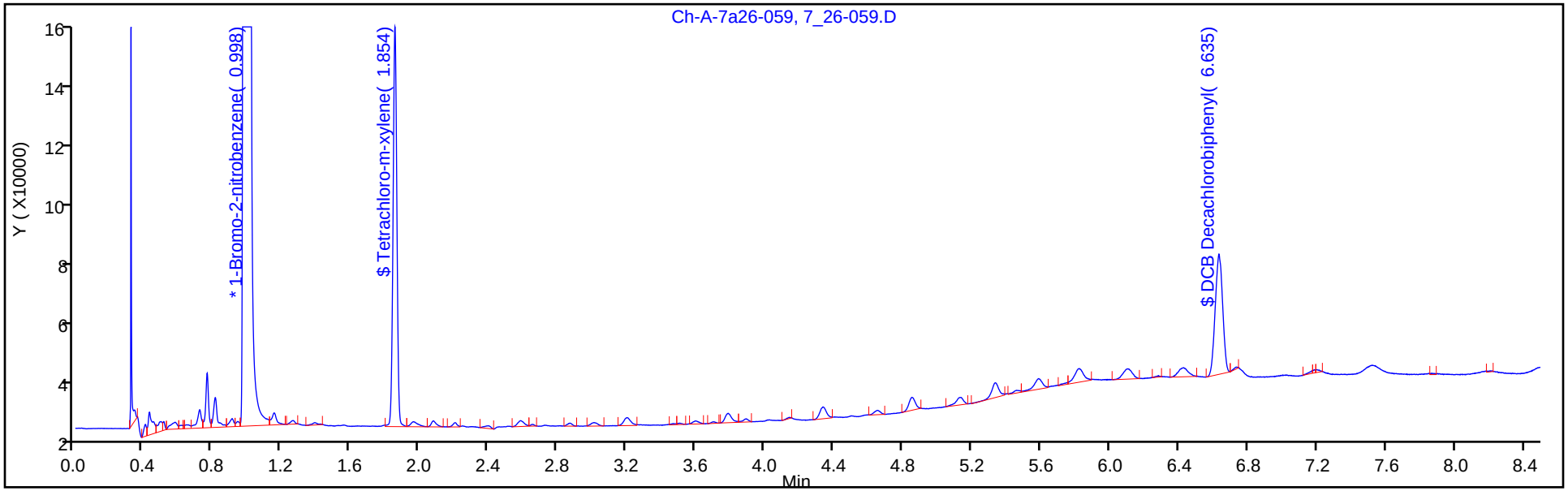
Report Date: 18-Sep-2018 13:40:18 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

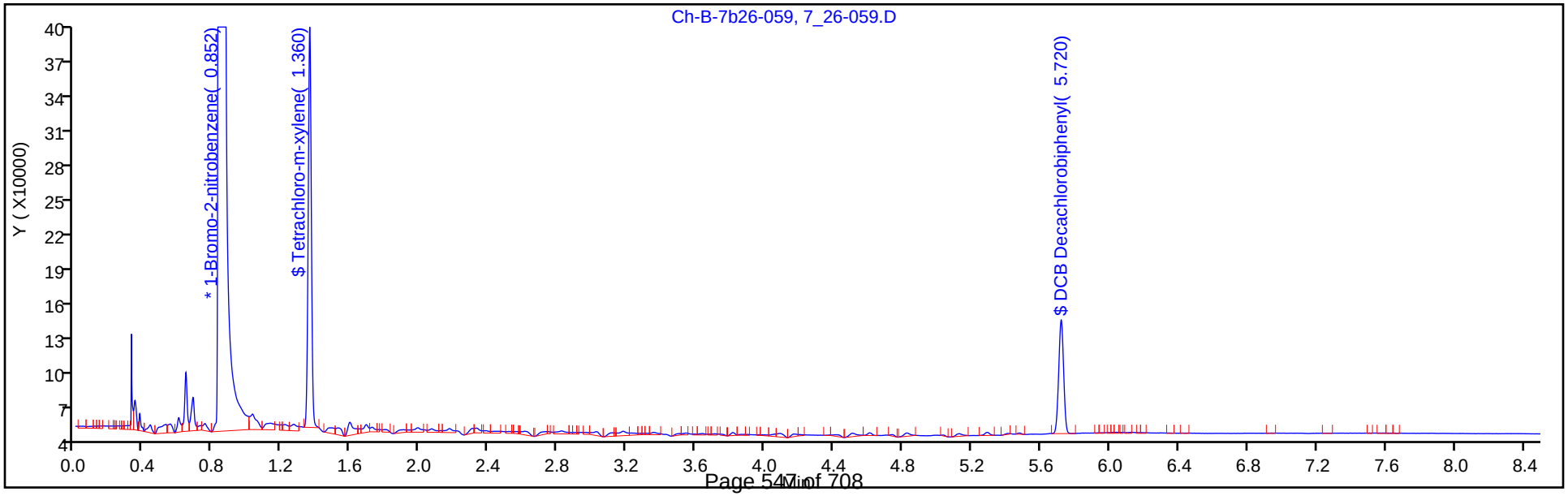
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-059.D

Injection Date:	17-Sep-2018 16:09:54	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-060.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Sep-2018 16:26:09 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:20 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 18-Sep-2018 09:13:31

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.001	0.999	0.002	14660879	0.5000	0.5000	
2	0.855	0.854	0.001	32645498	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.858	1.856	0.002	100122	0.002500	0.002504	M
2	1.363	1.363	0.000	239665	0.002500	0.002596	M
						RPD = 3.62	
$ 15 DCB Decachlorobiphenyl							
1	6.638	6.633	0.005	61785	0.002500	0.002553	
2	5.721	5.720	0.001	106712	0.002500	0.002624	
						RPD = 2.73	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8082_SURG.STK_00020 Amount Added: 0.01 Units: uL
PCB IS 1B2NB_00046 Amount Added: 10.00 Units: uL Run Reagent

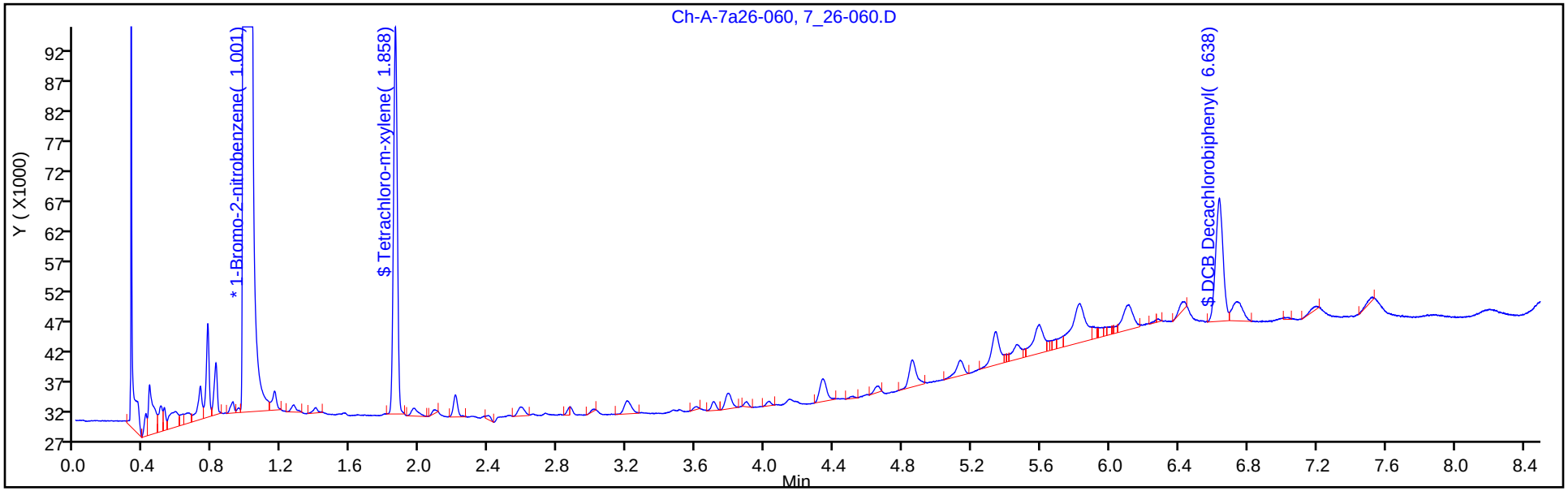
Report Date: 18-Sep-2018 13:40:20 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

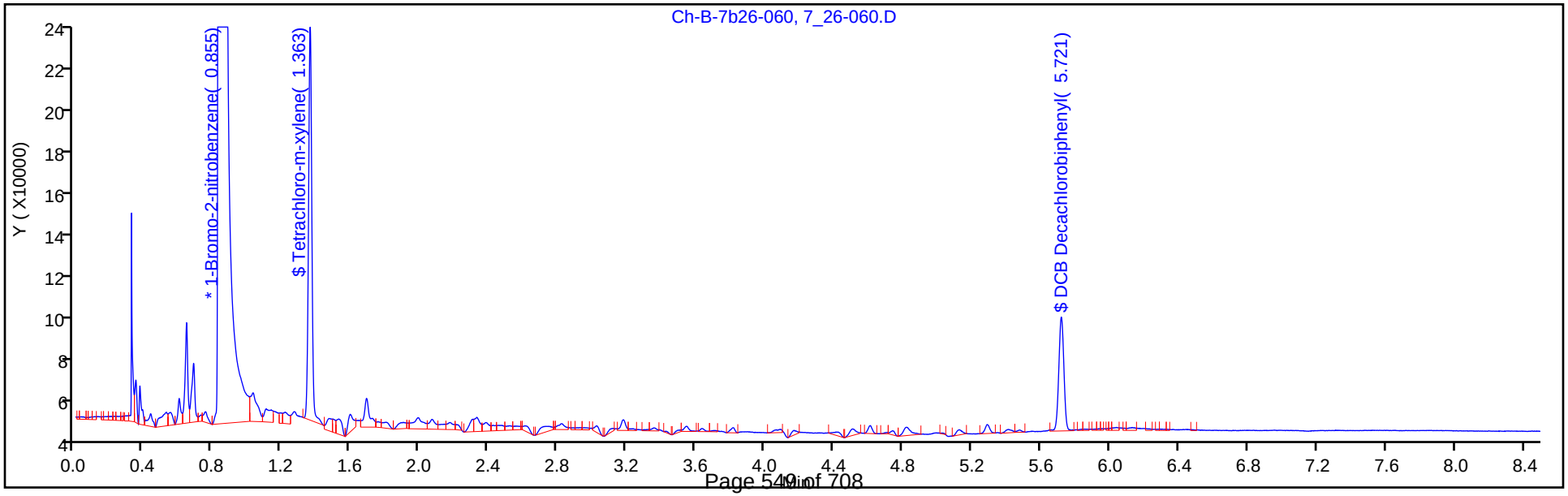
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-060.D

Injection Date:	17-Sep-2018 16:26:09	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

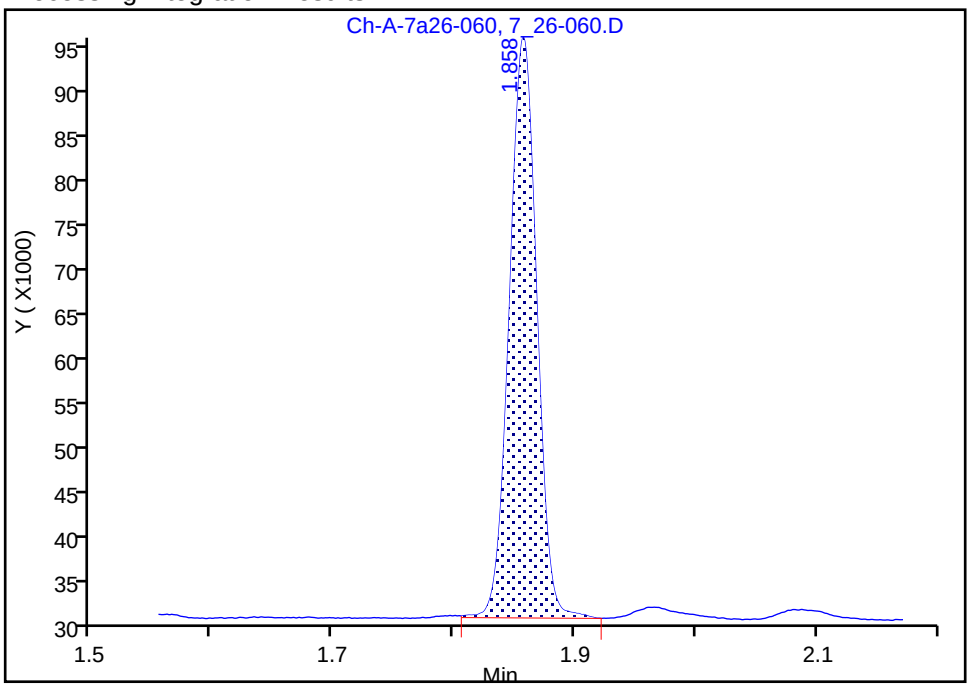
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-060.D
Injection Date: 17-Sep-2018 16:26:09 Instrument ID: HP6890-7
Lims ID: IC 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

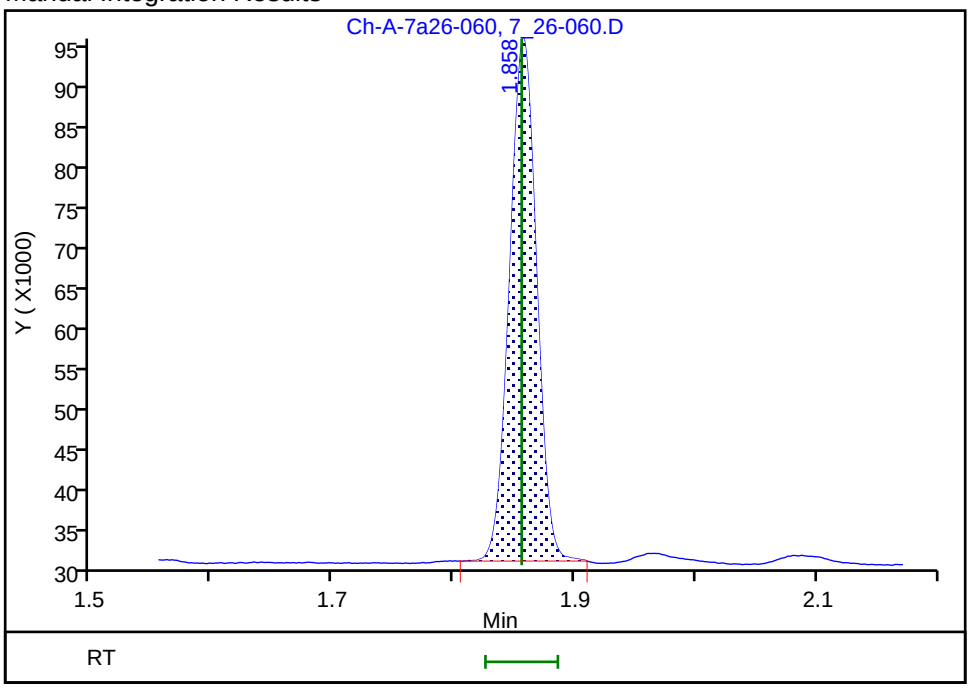
Processing Integration Results

RT: 1.86
Area: 101724
Amount: 0.002619
Amount Units: ng/uL



Manual Integration Results

RT: 1.86
Area: 100122
Amount: 0.002504
Amount Units: ng/uL



Reviewer: clarkda, 18-Sep-2018 09:12:43
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-061.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Sep-2018 16:42:00 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:22 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 18-Sep-2018 09:14:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.998	0.999	-0.001	14554970	0.5000	0.5000	
2	0.853	0.854	-0.002	32137986	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.855	1.856	-0.001	51266	0.001250	0.001119	M
2	1.361	1.363	-0.001	121940	0.001250	0.001066	M
						RPD = 4.86	
$ 15 DCB Decachlorobiphenyl							M
1	6.636	6.633	0.003	31982	0.001250	0.001212	M
2	5.721	5.720	0.001	56697	0.001250	0.000991	
						RPD = 20.06	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8082_SURG.STK_00020 Amount Added: 0.01 Units: uL
PCB IS 1B2NB_00046 Amount Added: 10.00 Units: uL Run Reagent

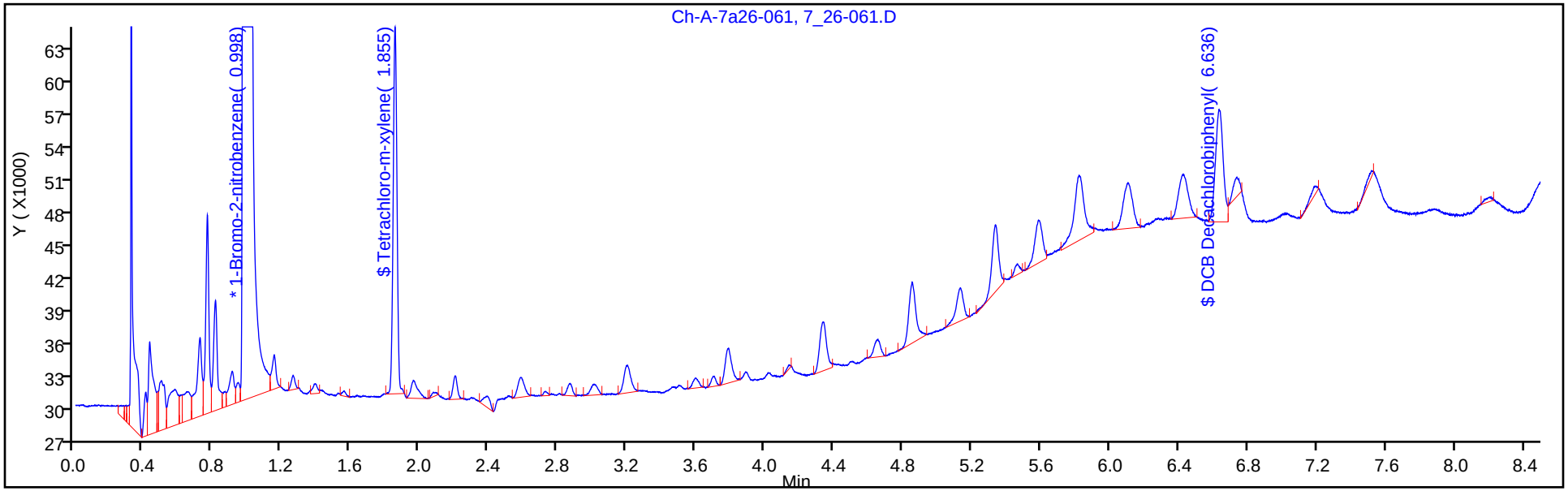
Report Date: 18-Sep-2018 13:40:22 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

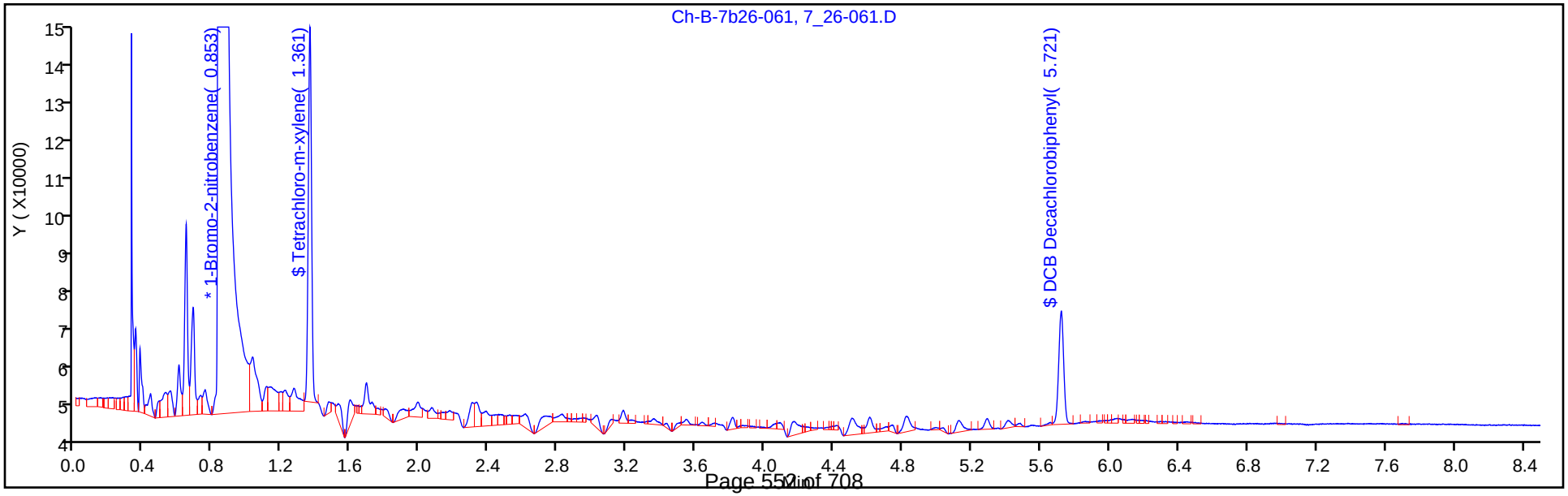
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-061.D

Injection Date:	17-Sep-2018 16:42:00	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

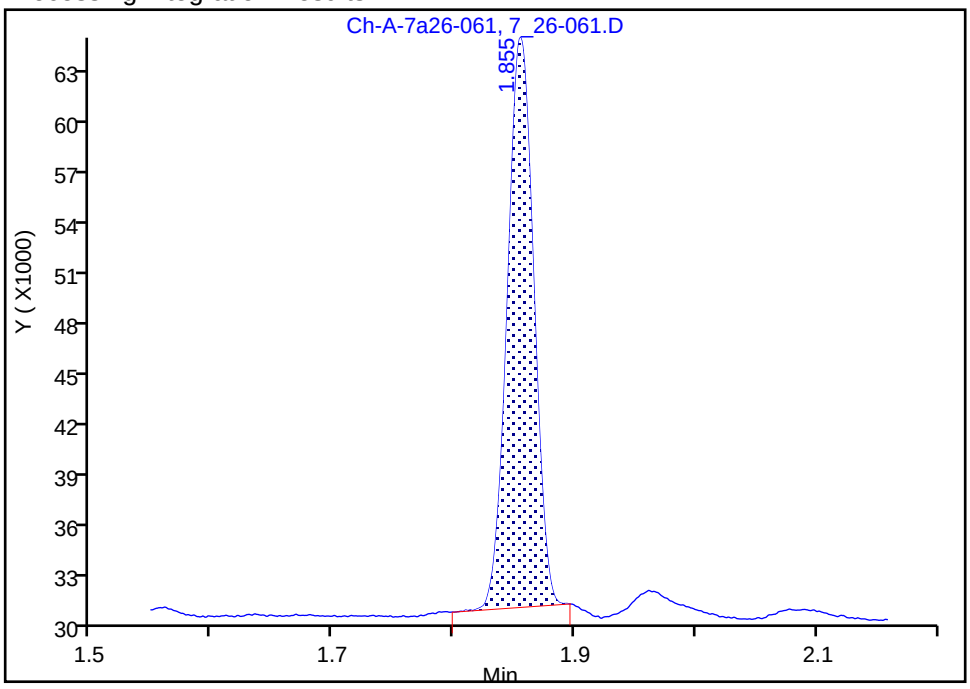
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-061.D
Injection Date: 17-Sep-2018 16:42:00 Instrument ID: HP6890-7
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

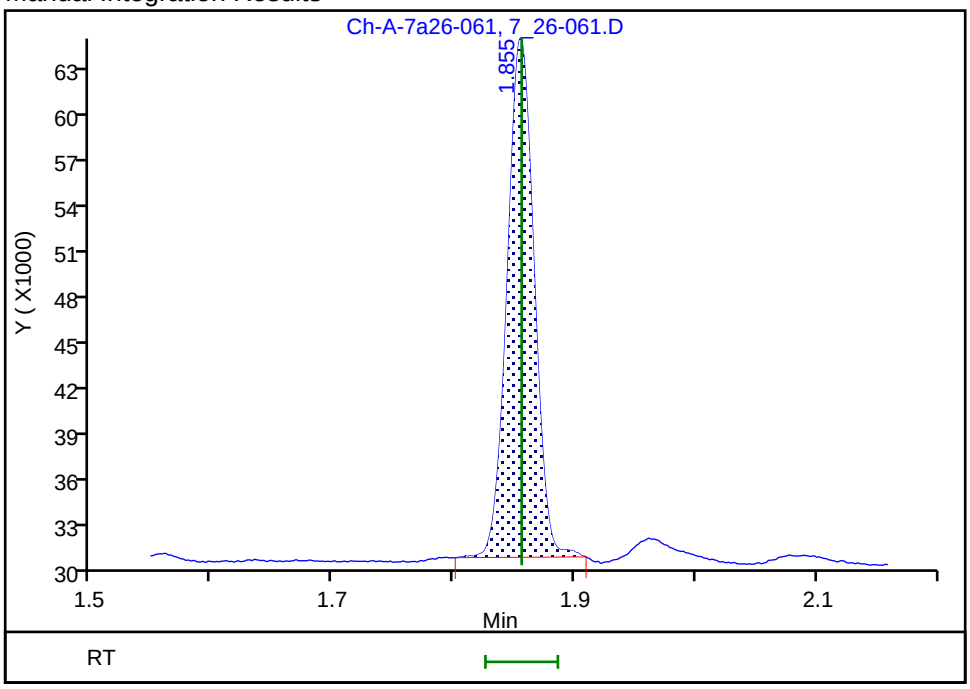
Processing Integration Results

RT: 1.86
Area: 49900
Amount: 0.001297
Amount Units: ng/uL



Manual Integration Results

RT: 1.86
Area: 51266
Amount: 0.001119
Amount Units: ng/uL



Reviewer: clarkda, 18-Sep-2018 09:13:51
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

TestAmerica Buffalo

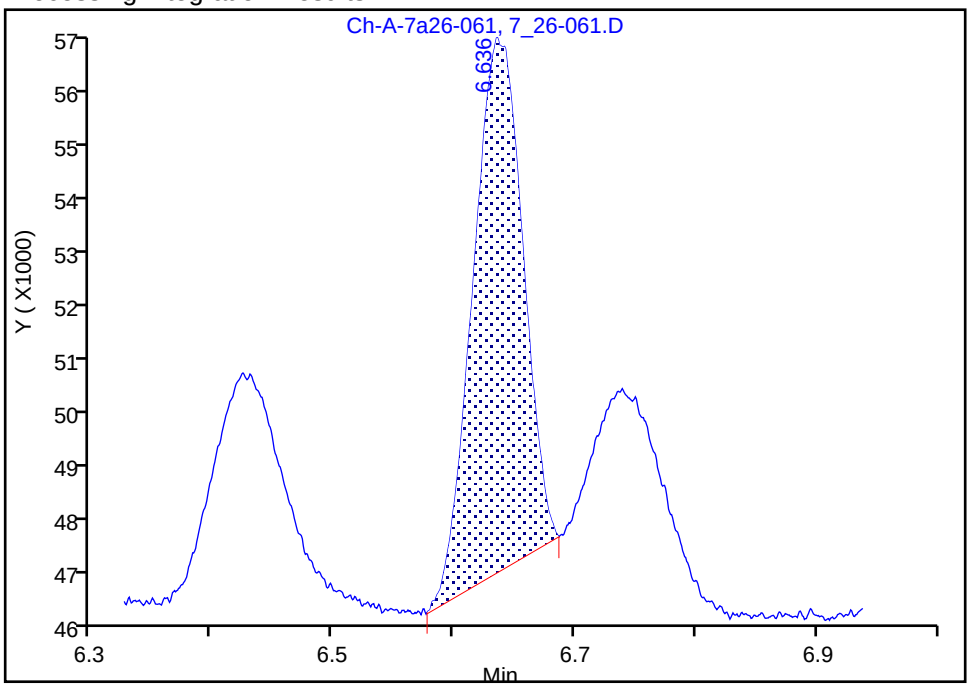
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-061.D
Injection Date: 17-Sep-2018 16:42:00 Instrument ID: HP6890-7
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

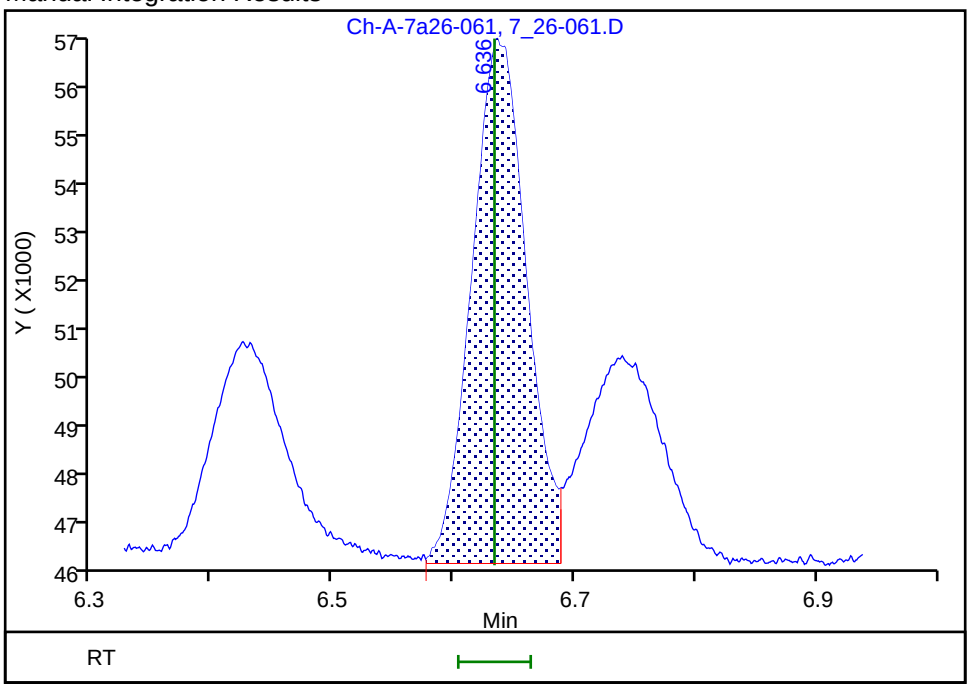
Processing Integration Results

RT: 6.64
Area: 26884
Amount: 0.001176
Amount Units: ng/uL



Manual Integration Results

RT: 6.64
Area: 31982
Amount: 0.001212
Amount Units: ng/uL



Reviewer: clarkda, 18-Sep-2018 09:14:12
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 434717

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2018 15:22 Calibration End Date: 09/17/2018 16:42 Calibration ID: 34897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-434717/16	7_26-061.D
Level 2	IC 480-434717/15	7_26-060.D
Level 3	IC 480-434717/14	7_26-059.D
Level 4	IC 480-434717/13	7_26-058.D
Level 5	IC 480-434717/12	7_26-057.D
Level 6	IC 480-434717/11	7_26-056.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrachloro-m-xylene	1.5177 1.1294	1.4683	1.3369	1.2974	1.2243	Lin1	0.0007	1.1592							0.9970		0.9900
DCB Decachlorobiphenyl	0.7057 0.4575	0.6538	0.5949	0.5330	0.4752	Lin1	0.0004	0.4608							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1 Analy Batch No.: 434717

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/17/2018 15:22 Calibration End Date: 09/17/2018 16:42 Calibration ID: 34897

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-434717/16	7_26-061.D
Level 2	IC 480-434717/15	7_26-060.D
Level 3	IC 480-434717/14	7_26-059.D
Level 4	IC 480-434717/13	7_26-058.D
Level 5	IC 480-434717/12	7_26-057.D
Level 6	IC 480-434717/11	7_26-056.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Tetrachloro-m-xylene	BNB	Lin1	121940 4244938	239665	437712	1080564	2223292	0.00125 0.0500	0.00250	0.00500	0.0125	0.0250
DCB Decachlorobiphenyl	BNB	Lin1	56697 1719470	106712	194773	443922	862883	0.00125 0.0500	0.00250	0.00500	0.0125	0.0250

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-056.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 17-Sep-2018 15:22:01 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:11 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 17-Sep-2018 15:43:33

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.008	0.999	0.009	15438584	0.5000	0.5000	
2	0.850	0.854	-0.004	37587353	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.872	1.856	0.016	1808468	0.0500	0.0487	
2	1.356	1.363	-0.006	4244938	0.0500	0.0481	
						RPD = 1.13	
$ 15 DCB Decachlorobiphenyl							
1	6.663	6.633	0.029	1166903	0.0500	0.0500	
2	5.724	5.720	0.004	1719470	0.0500	0.0487	
						RPD = 2.61	

Reagents:

8082_SURG.STK_00020 Amount Added: 0.25 Units: uL
PCB IS 1B2NB_00046 Amount Added: 10.00 Units: uL Run Reagent

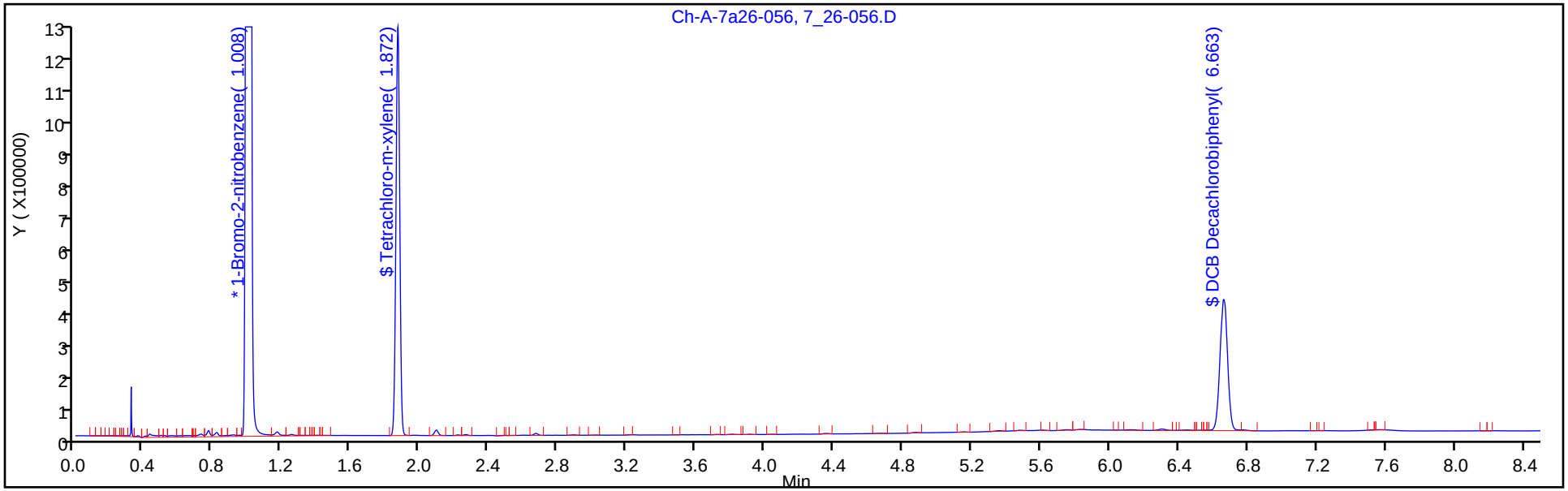
Report Date: 18-Sep-2018 13:40:11 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

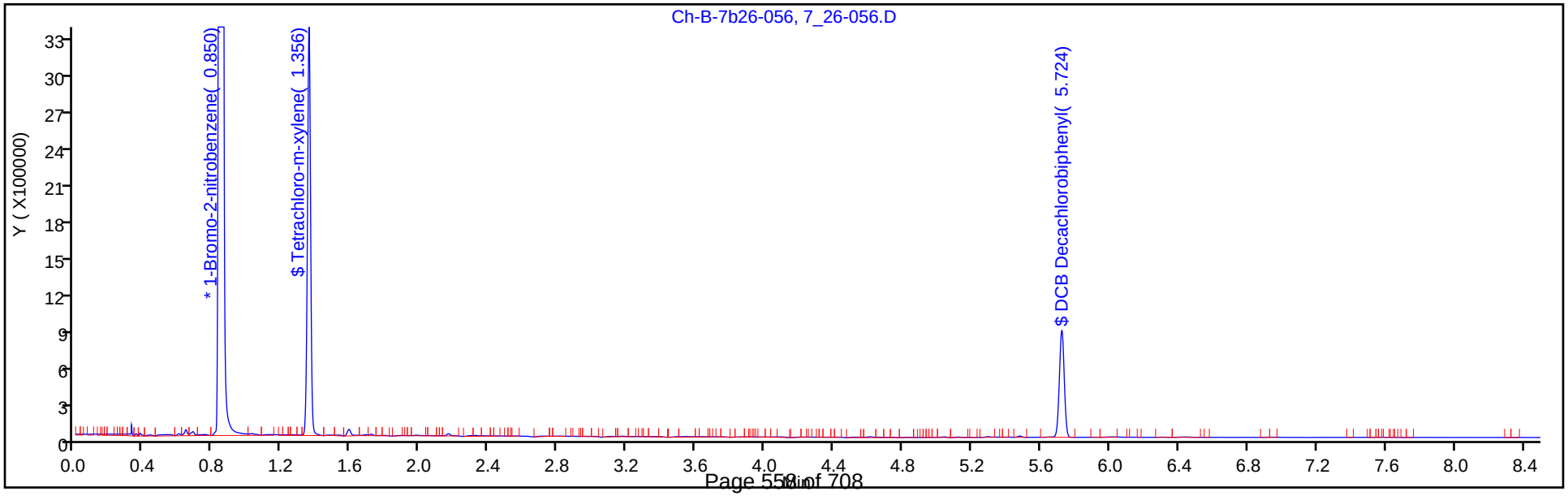
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-056.D

Injection Date:	17-Sep-2018 15:22:01	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-057.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 17-Sep-2018 15:38:00 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:13 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 18-Sep-2018 09:09:13

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.001	0.999	0.002	15329005	0.5000	0.5000	
2	0.853	0.854	-0.001	36319214	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.858	1.856	0.002	944979	0.0250	0.0255	
2	1.361	1.363	-0.001	2223292	0.0250	0.0258	
						RPD = 1.48	
$ 15 DCB Decachlorobiphenyl							
1	6.640	6.633	0.007	575035	0.0250	0.0247	
2	5.720	5.720	0.000	862883	0.0250	0.0249	
						RPD = 0.66	

Reagents:

8082_SURG.STK_00020 Amount Added: 0.13 Units: uL
PCB IS 1B2NB_00046 Amount Added: 10.00 Units: uL Run Reagent

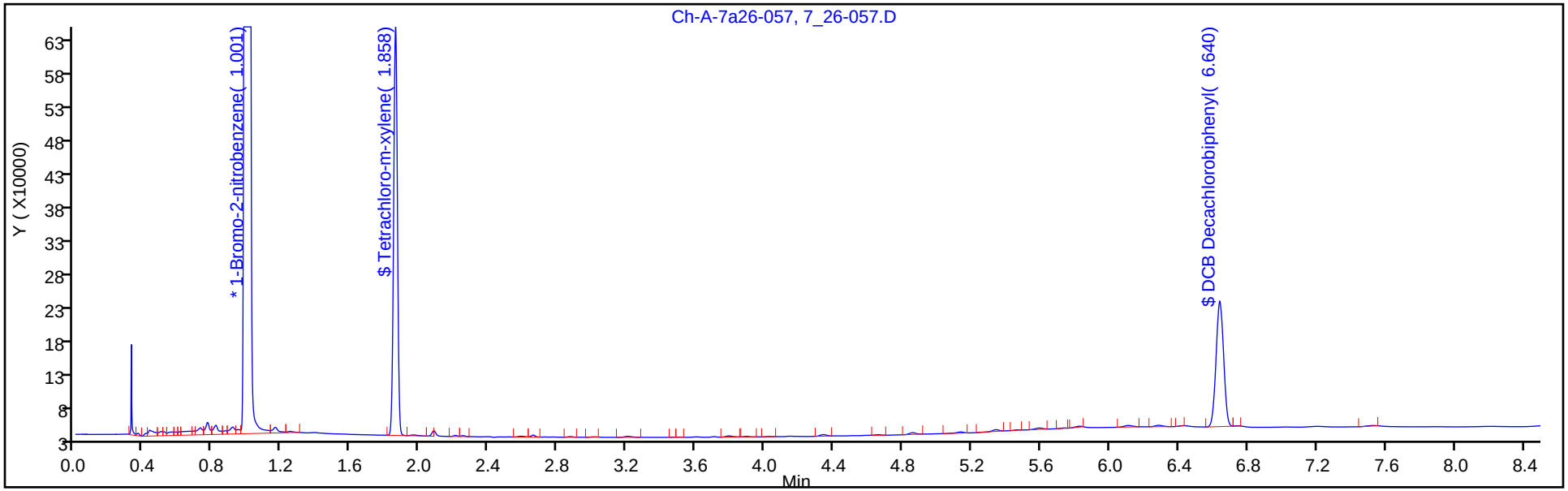
Report Date: 18-Sep-2018 13:40:14 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

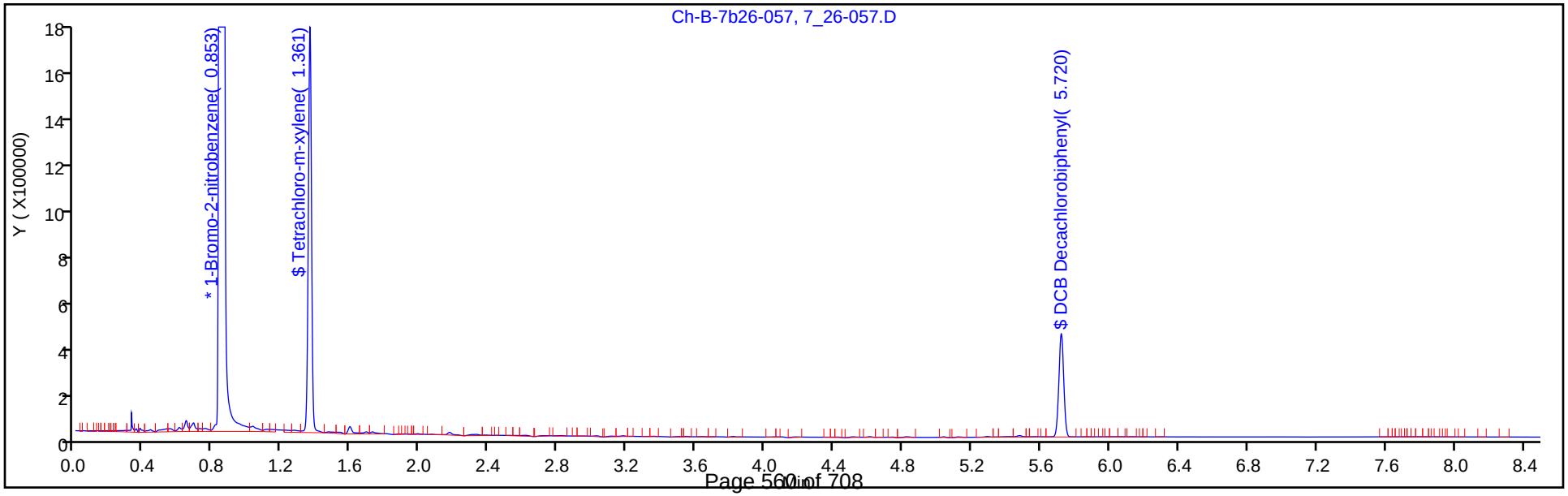
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-057.D

Injection Date:	17-Sep-2018 15:38:00	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-058.D
Lims ID: IC 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 17-Sep-2018 15:53:59 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:15 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 18-Sep-2018 09:09:30

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.999	0.999	0.000	14760618	0.5000	0.5000	
2	0.853	0.854	-0.002	33315020	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.855	1.856	-0.001	478618	0.0125	0.0132	
2	1.361	1.363	-0.001	1080564	0.0125	0.0134	
						RPD = 1.50	
$ 15 DCB Decachlorobiphenyl							
1	6.634	6.633	0.001	289910	0.0125	0.0128	
2	5.718	5.720	-0.002	443922	0.0125	0.0135	
						RPD = 5.51	

Reagents:

8082_SURG.STK_00020 Amount Added: 0.06 Units: uL
PCB IS 1B2NB_00046 Amount Added: 10.00 Units: uL Run Reagent

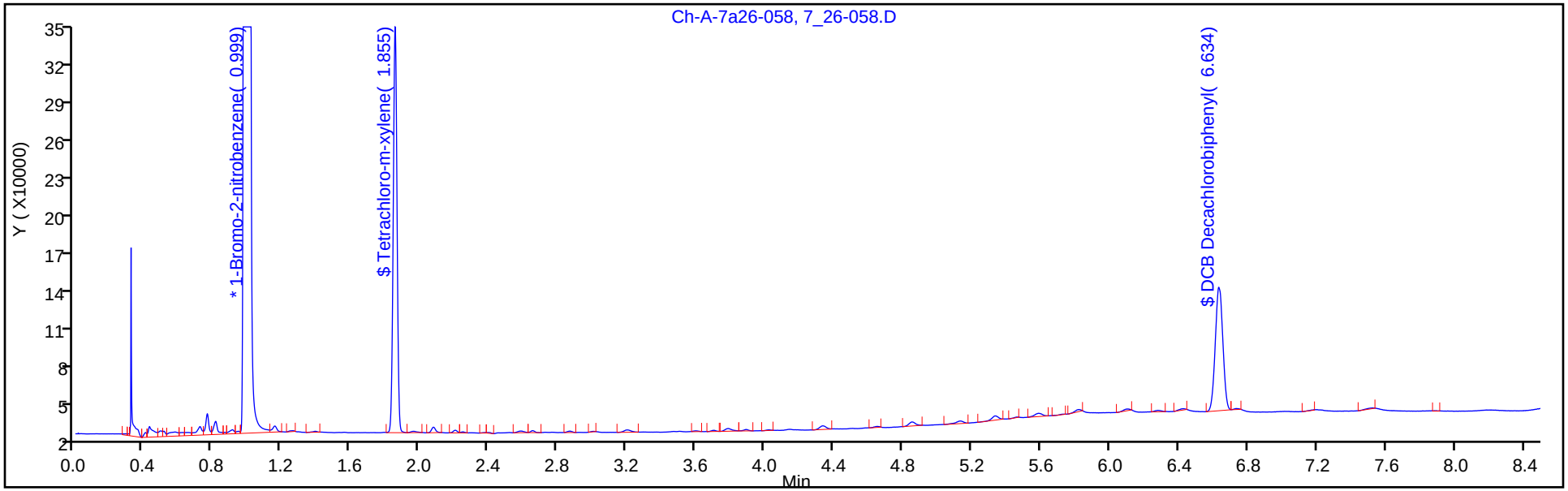
Report Date: 18-Sep-2018 13:40:16 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

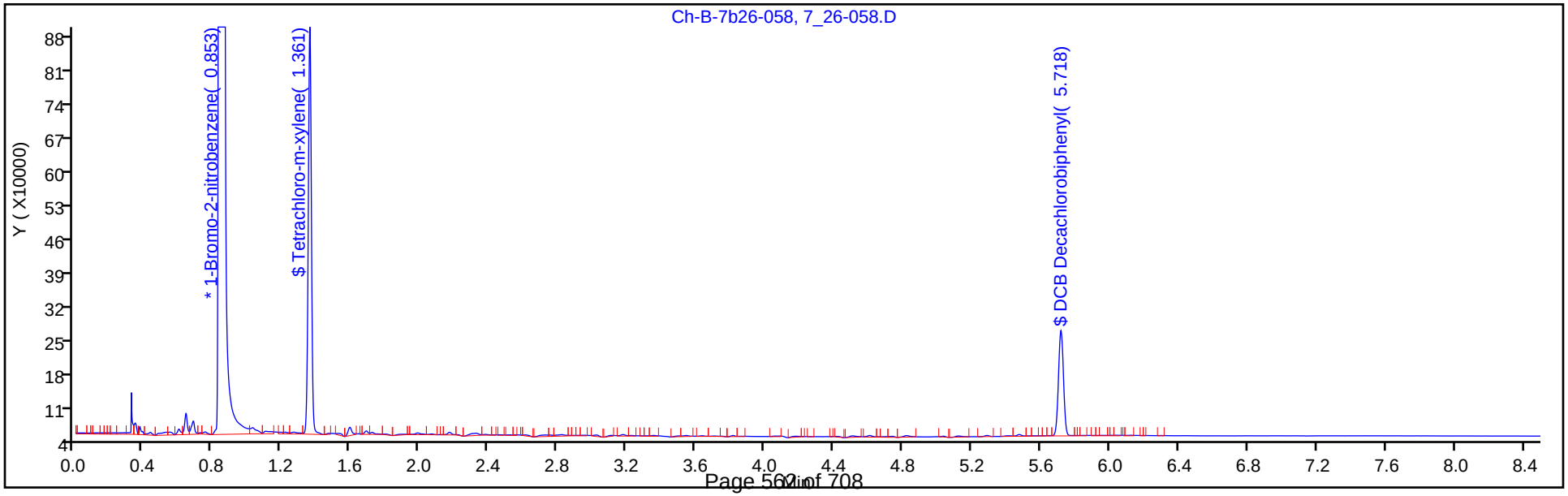
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-058.D

Injection Date:	17-Sep-2018 15:53:59	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 5			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-059.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 17-Sep-2018 16:09:54 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:18 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 17-Sep-2018 16:40:42

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.998	0.999	-0.001	14628610	0.5000	0.5000	
2	0.852	0.854	-0.002	32741391	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.854	1.856	-0.002	196551	0.005000	0.005270	
2	1.360	1.363	-0.002	437712	0.005000	0.005196	M
						RPD = 1.41	
$ 15 DCB Decachlorobiphenyl							
1	6.635	6.633	0.002	115128	0.005000	0.004984	
2	5.720	5.720	0.000	194773	0.005000	0.005532	
						RPD = 10.43	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8082_SURG.STK_00020	Amount Added: 0.03	Units: uL	
PCB IS 1B2NB_00046	Amount Added: 10.00	Units: uL	Run Reagent

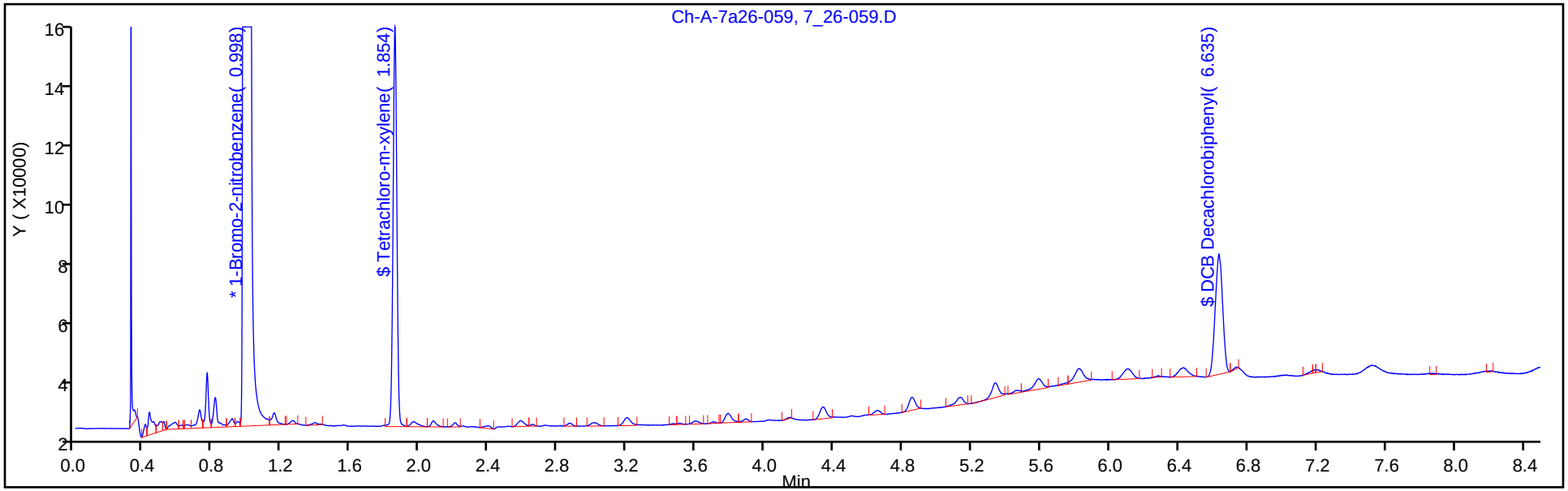
Report Date: 18-Sep-2018 13:40:18 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

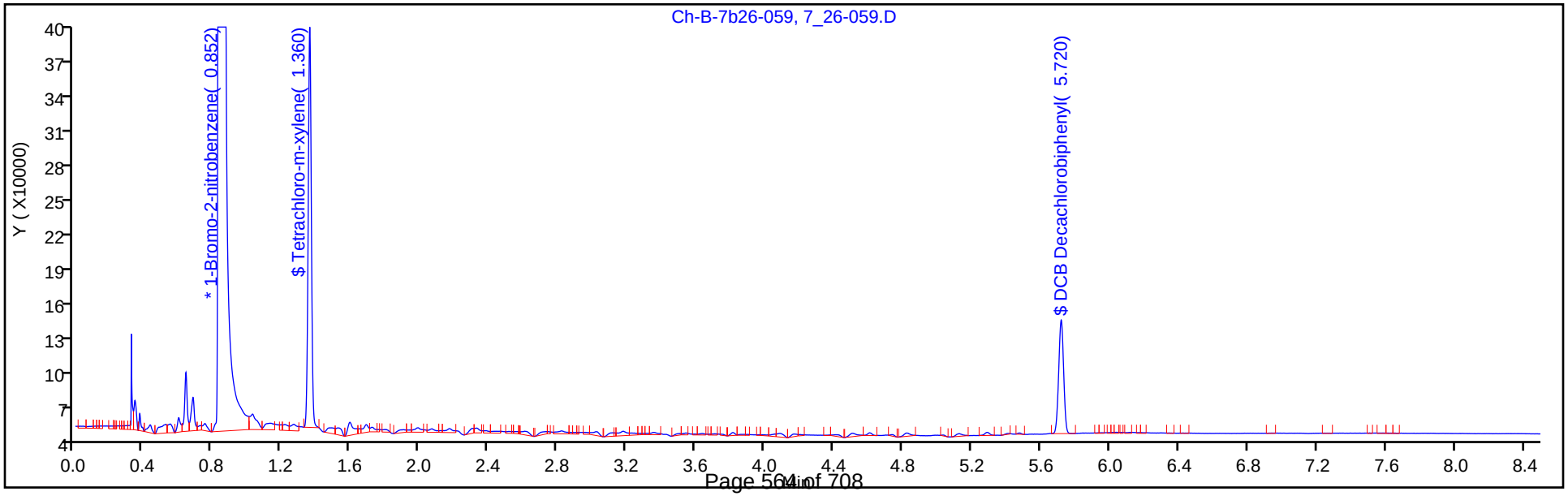
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-059.D

Injection Date:	17-Sep-2018 16:09:54	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

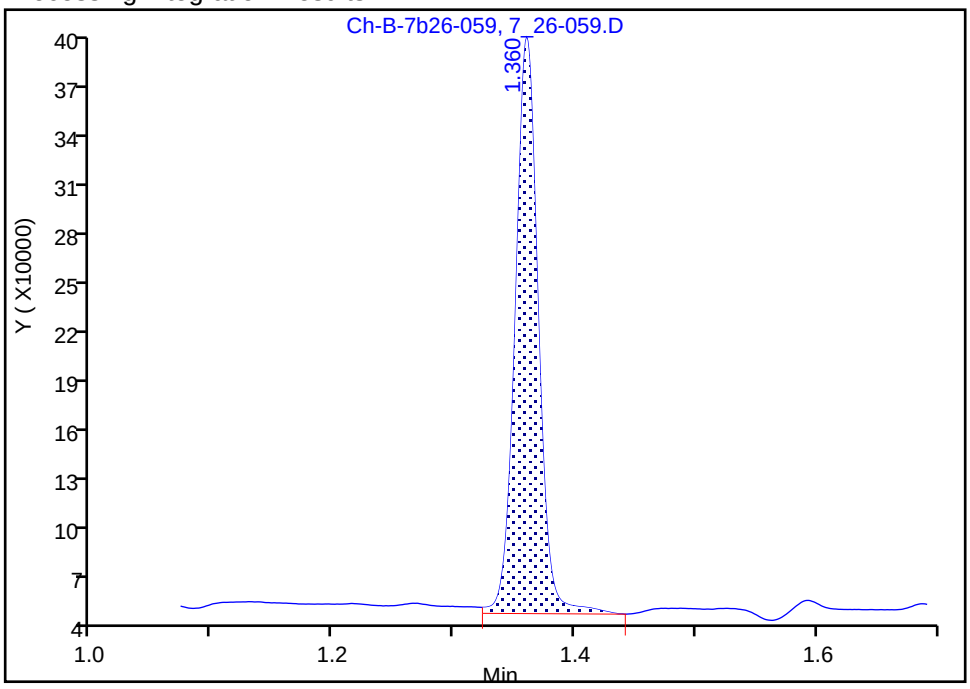
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-059.D
Injection Date: 17-Sep-2018 16:09:54 Instrument ID: HP6890-7
Lims ID: IC 4
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

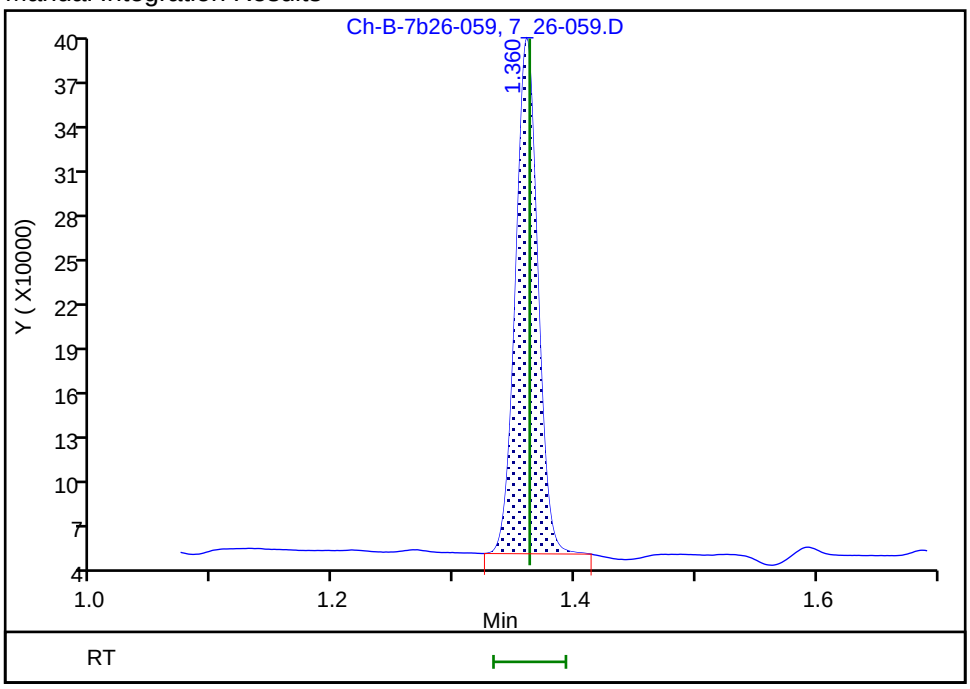
Processing Integration Results

RT: 1.36
Area: 459480
Amount: 0.005432
Amount Units: ng/uL



Manual Integration Results

RT: 1.36
Area: 437712
Amount: 0.005196
Amount Units: ng/uL



Reviewer: clarkda, 18-Sep-2018 09:10:55
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-060.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 17-Sep-2018 16:26:09 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:20 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 18-Sep-2018 09:13:31

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.001	0.999	0.002	14660879	0.5000	0.5000	
2	0.855	0.854	0.001	32645498	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.858	1.856	0.002	100122	0.002500	0.002504	M
2	1.363	1.363	0.000	239665	0.002500	0.002596	M
						RPD = 3.62	
$ 15 DCB Decachlorobiphenyl							
1	6.638	6.633	0.005	61785	0.002500	0.002553	
2	5.721	5.720	0.001	106712	0.002500	0.002624	
						RPD = 2.73	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8082_SURG.STK_00020 Amount Added: 0.01 Units: uL
PCB IS 1B2NB_00046 Amount Added: 10.00 Units: uL Run Reagent

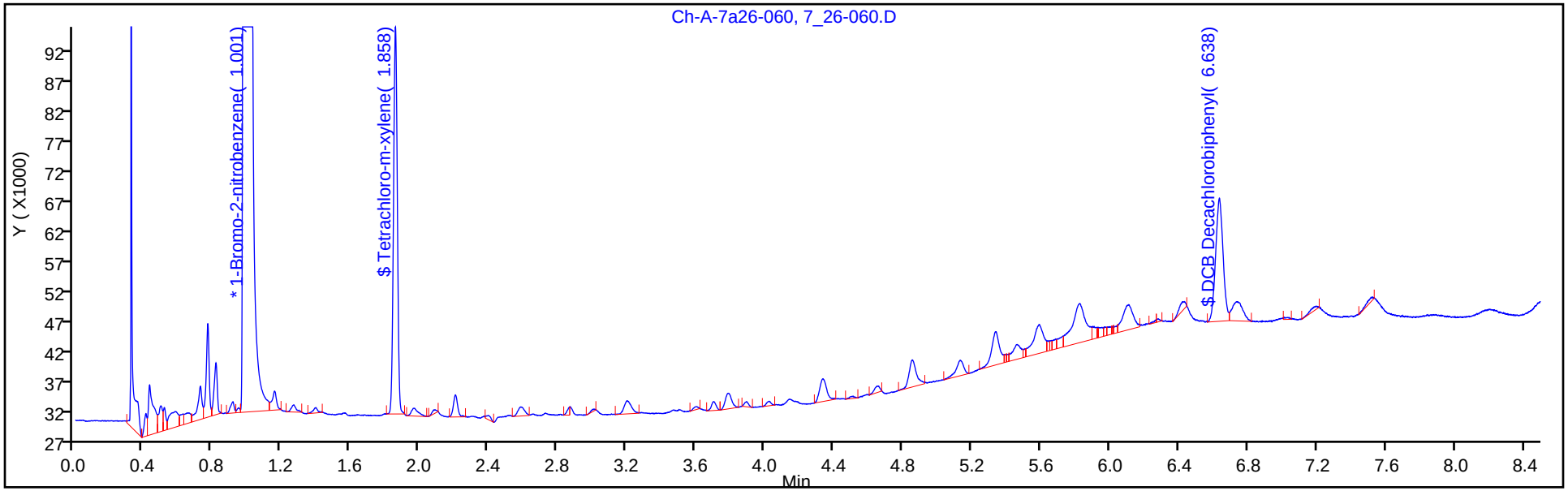
Report Date: 18-Sep-2018 13:40:20 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

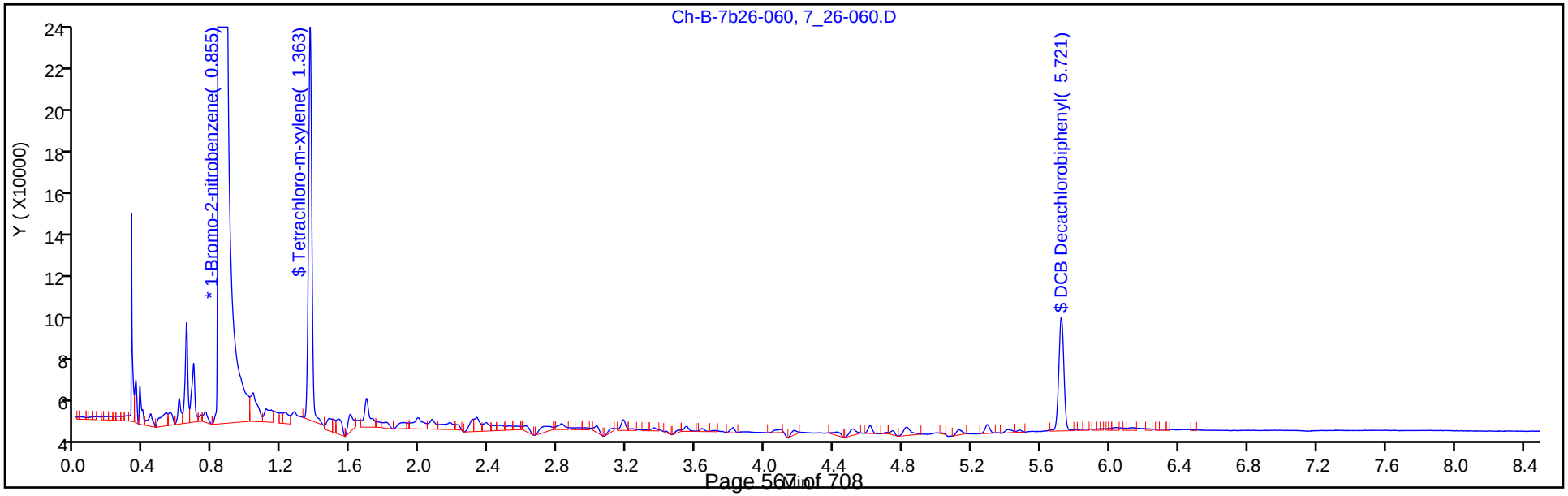
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-060.D

Injection Date:	17-Sep-2018 16:26:09	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

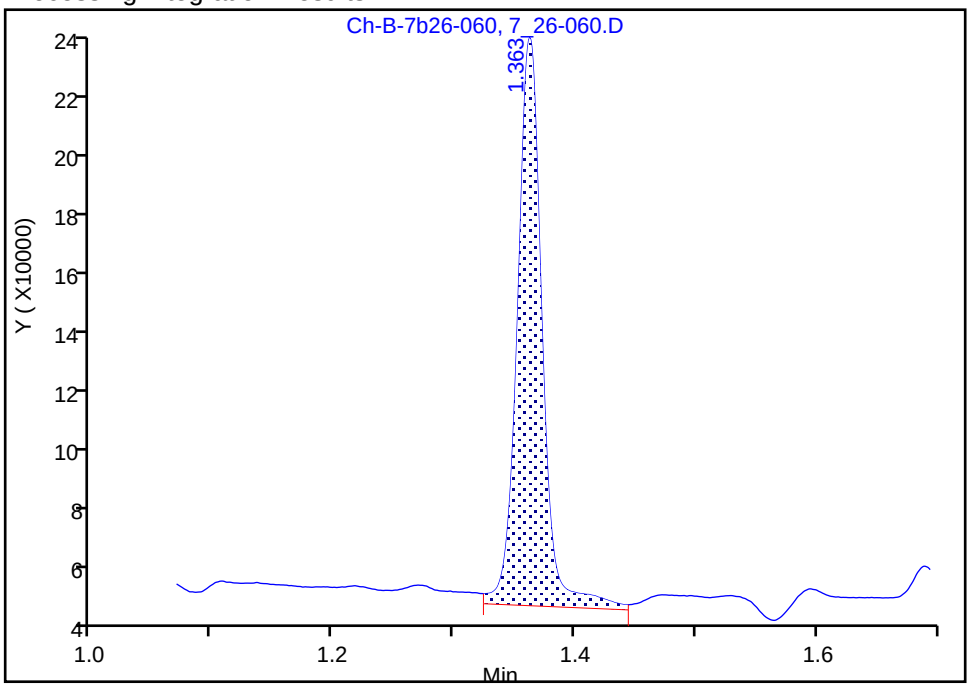
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-060.D
Injection Date: 17-Sep-2018 16:26:09 Instrument ID: HP6890-7
Lims ID: IC 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

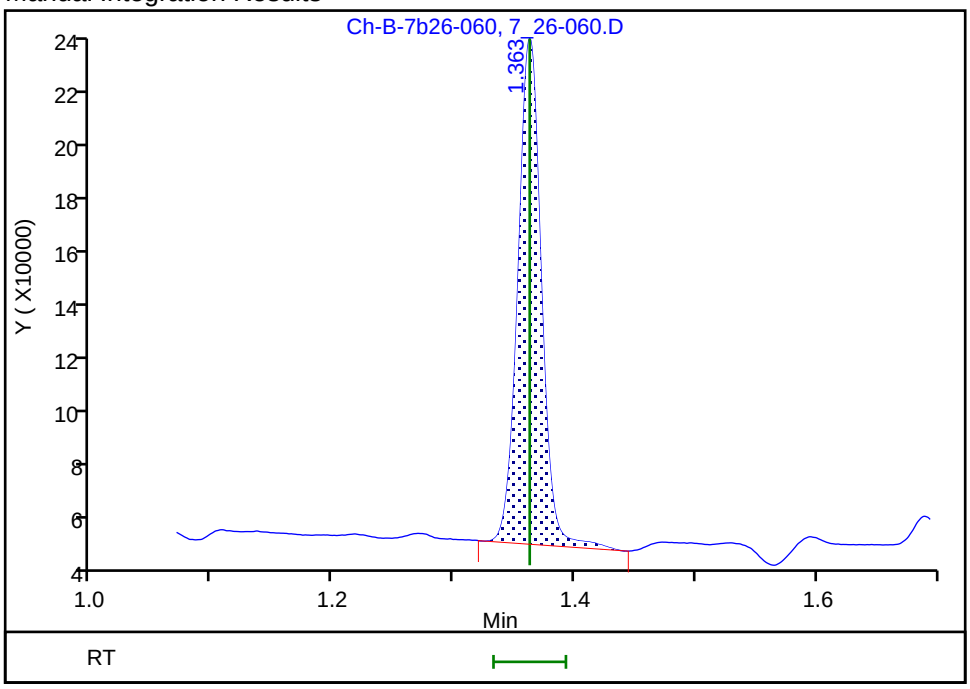
Processing Integration Results

RT: 1.36
Area: 257233
Amount: 0.002808
Amount Units: ng/uL



Manual Integration Results

RT: 1.36
Area: 239665
Amount: 0.002596
Amount Units: ng/uL



Reviewer: clarkda, 18-Sep-2018 09:13:13
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-061.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 17-Sep-2018 16:42:00 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub18

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 18-Sep-2018 13:40:22 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0309

First Level Reviewer: clarkda Date: 18-Sep-2018 09:14:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.998	0.999	-0.001	14554970	0.5000	0.5000	
2	0.853	0.854	-0.002	32137986	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.855	1.856	-0.001	51266	0.001250	0.001119	M
2	1.361	1.363	-0.001	121940	0.001250	0.001066	M
						RPD = 4.86	
$ 15 DCB Decachlorobiphenyl							M
1	6.636	6.633	0.003	31982	0.001250	0.001212	M
2	5.721	5.720	0.001	56697	0.001250	0.000991	
						RPD = 20.06	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8082_SURG.STK_00020 Amount Added: 0.01 Units: uL
PCB IS 1B2NB_00046 Amount Added: 10.00 Units: uL Run Reagent

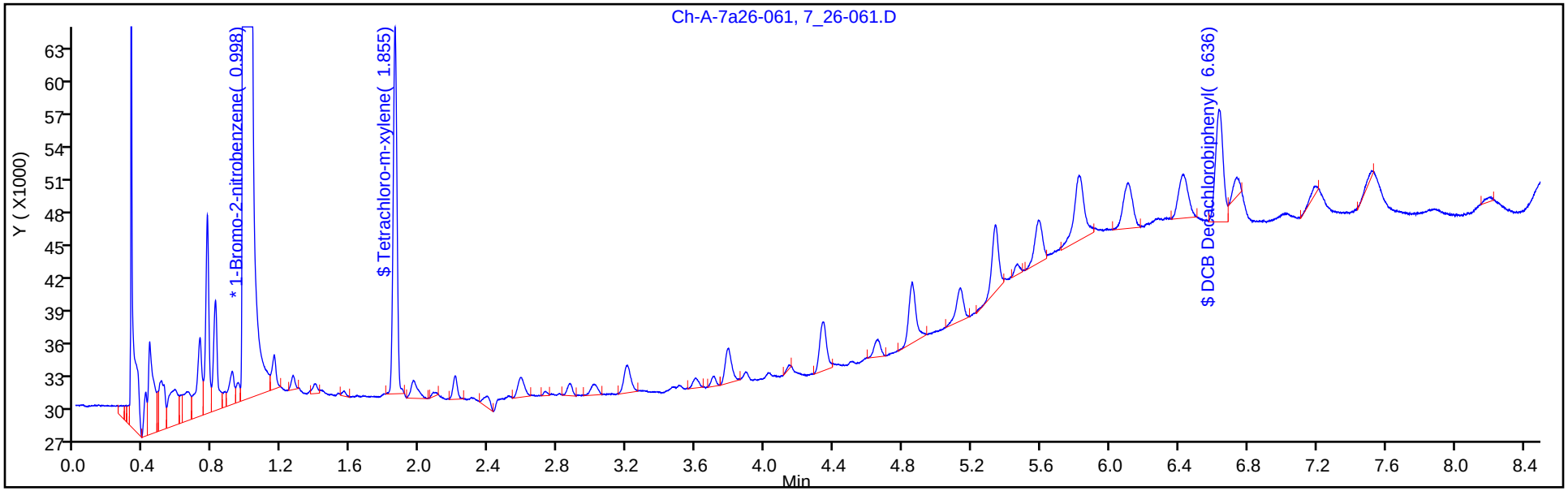
Report Date: 18-Sep-2018 13:40:23 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

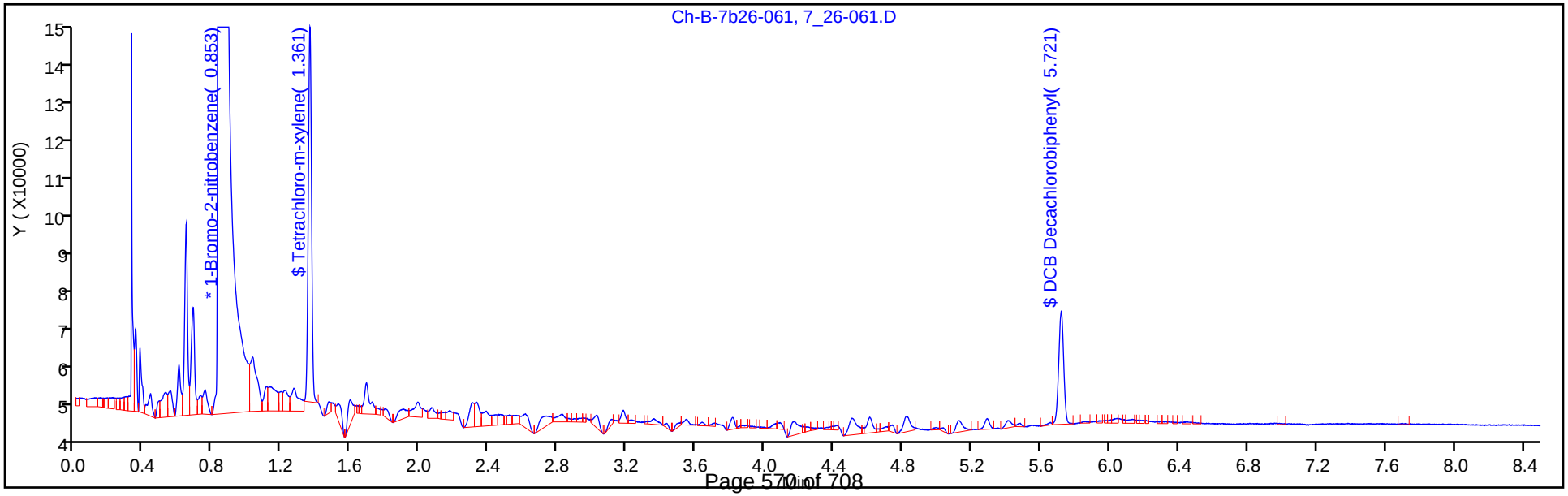
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-061.D

Injection Date:	17-Sep-2018 16:42:00	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

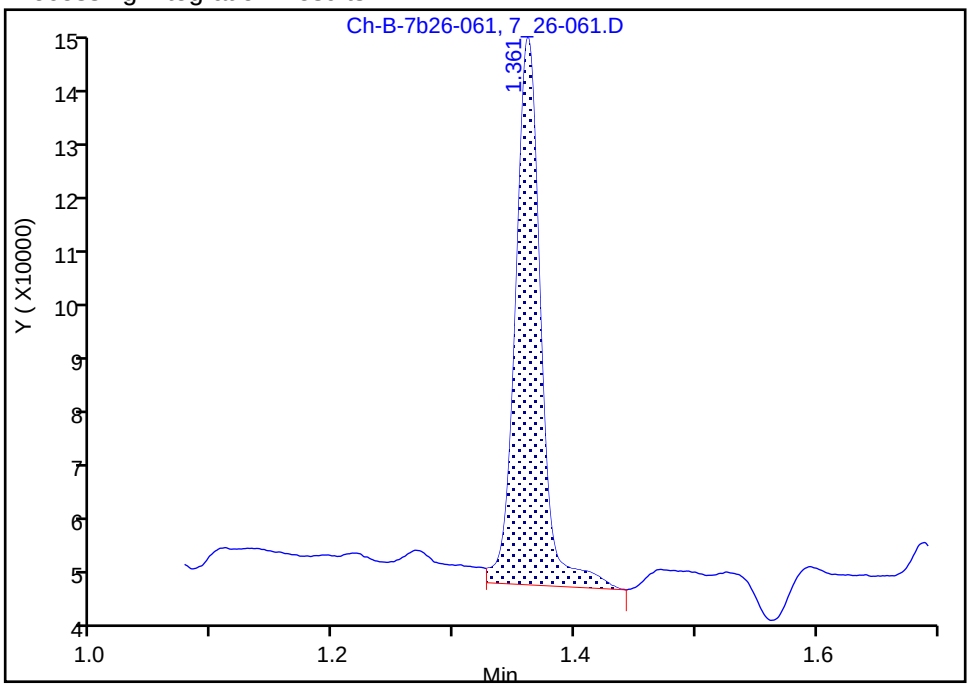
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-061.D
Injection Date: 17-Sep-2018 16:42:00 Instrument ID: HP6890-7
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

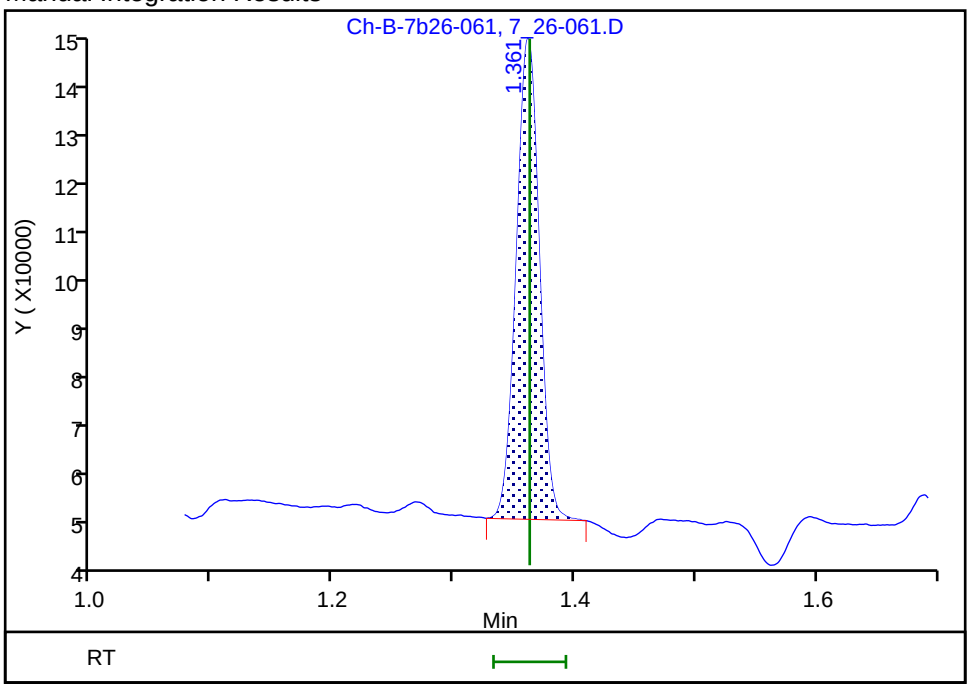
Processing Integration Results

RT: 1.36
Area: 137937
Amount: 0.001291
Amount Units: ng/uL



Manual Integration Results

RT: 1.36
Area: 121940
Amount: 0.001066
Amount Units: ng/uL



Reviewer: clarkda, 18-Sep-2018 09:14:37
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449147/5 Calibration Date: 12/05/2018 12:32

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 14:26

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 16:02

Lab File ID: 7_32-271.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.1064	0.1046		0.492	0.500	-1.7	20.0
PCB-1016 Peak 2	Lin1		0.0393		0.537	0.500	7.3	20.0
PCB-1016 Peak 3	Ave	0.0282	0.0261		0.464	0.500	-7.2	20.0
PCB-1016 Peak 4	Lin1		0.0211		0.531	0.500	6.1	20.0
PCB-1016 Peak 5	Ave	0.0363	0.0342		0.471	0.500	-5.8	20.0
PCB-1260 Peak 1	Ave	0.0646	0.0536		0.415	0.500	-17.0	20.0
PCB-1260 Peak 2	Ave	0.0724	0.0593		0.409	0.500	-18.2	20.0
PCB-1260 Peak 3	Lin1		0.0698		0.418	0.500	-16.4	20.0
PCB-1260 Peak 4	Lin1		0.0338		0.459	0.500	-8.3	20.0
PCB-1260 Peak 5	Lin1		0.0870		0.501	0.500	0.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449147/5 Calibration Date: 12/05/2018 12:32

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 14:26

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 16:02

Lab File ID: 7_32-271.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.84	2.81	2.87
PCB-1016 Peak 2	2.92	2.89	2.95
PCB-1016 Peak 3	2.98	2.95	3.01
PCB-1016 Peak 4	3.10	3.07	3.13
PCB-1016 Peak 5	3.37	3.34	3.40
PCB-1260 Peak 1	4.28	4.25	4.31
PCB-1260 Peak 2	4.47	4.44	4.50
PCB-1260 Peak 3	4.69	4.66	4.72
PCB-1260 Peak 4	5.01	4.98	5.04
PCB-1260 Peak 5	5.22	5.19	5.25

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Dec-2018 12:32:06 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:05:27 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0307

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:05:27

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	13150750	0.5000	0.5000	
2	0.891	0.891	0.000	39612620	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	486769	0.0125	0.0151	M
2	1.408	1.408	0.000	1327162	0.0125	0.0139	
						RPD = 8.69	
9 PCB-1016							M
1	2.835	2.835	0.000	1375721	0.5000	0.4917	M
1	2.919	2.919	0.000	516278	0.5000	0.5367	M
1	2.981	2.981	0.000	343740	0.5000	0.4639	M
1	3.102	3.102	0.000	277459	0.5000	0.5307	M
1	3.373	3.373	0.000	449318	0.5000	0.4712	M
		Average of Peak Amounts =				0.4988	
2	2.337	2.337	0.000	3317042	0.5000	0.4802	
2	2.439	2.439	0.000	1408137	0.5000	0.4450	
2	2.525	2.525	0.000	947011	0.5000	0.5693	
2	2.790	2.790	0.000	1672164	0.5000	0.4560	
2	2.888	2.888	0.000	1273571	0.5000	0.5371	
		Average of Peak Amounts =				0.4975	
						RPD = 0.26	
2 1260 Res 1							M
1	4.089	4.089	0.000	243826	NC	NC	M
2	4.098	4.098	0.000	1179963	NC	NC	
4 1260 Res 2							M
1	4.189	4.189	0.000	316041	NC	NC	M
2	4.125	4.125	0.000	1890152	NC	NC	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.283	4.283	0.000	705033	0.5000	0.4148	M
1	4.467	4.467	0.000	779353	0.5000	0.4092	M
1	4.694	4.694	0.000	917805	0.5000	0.4179	M
1	5.014	5.014	0.000	444339	0.5000	0.4586	M
1	5.218	5.218	0.000	1144183	0.5000	0.5012	M
		Average of Peak Amounts =				0.4403	
2	3.711	3.711	0.000	1933003	0.5000	0.4528	
2	4.125	4.125	0.000	1890152	0.5000	0.4151	
2	4.427	4.427	0.000	1614340	0.5000	0.5015	
2	4.575	4.575	0.000	3027859	0.5000	0.4738	
2	4.893	4.893	0.000	2029591	0.5000	0.4667	
		Average of Peak Amounts =				0.4620	
						RPD = 4.80	
3 1260 Res 3							M
1	4.467	4.467	0.000	779353	NC	NC	M
2	4.427	4.427	0.000	1614340	NC	NC	
$ 15 DCB Decachlorobiphenyl							M
1	6.764	6.764	0.000	262489	0.0125	0.0130	
2	5.813	5.813	0.000	569430	0.0125	0.0147	M
						RPD = 11.94	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00053 Amount Added: 1.00 Units: mL

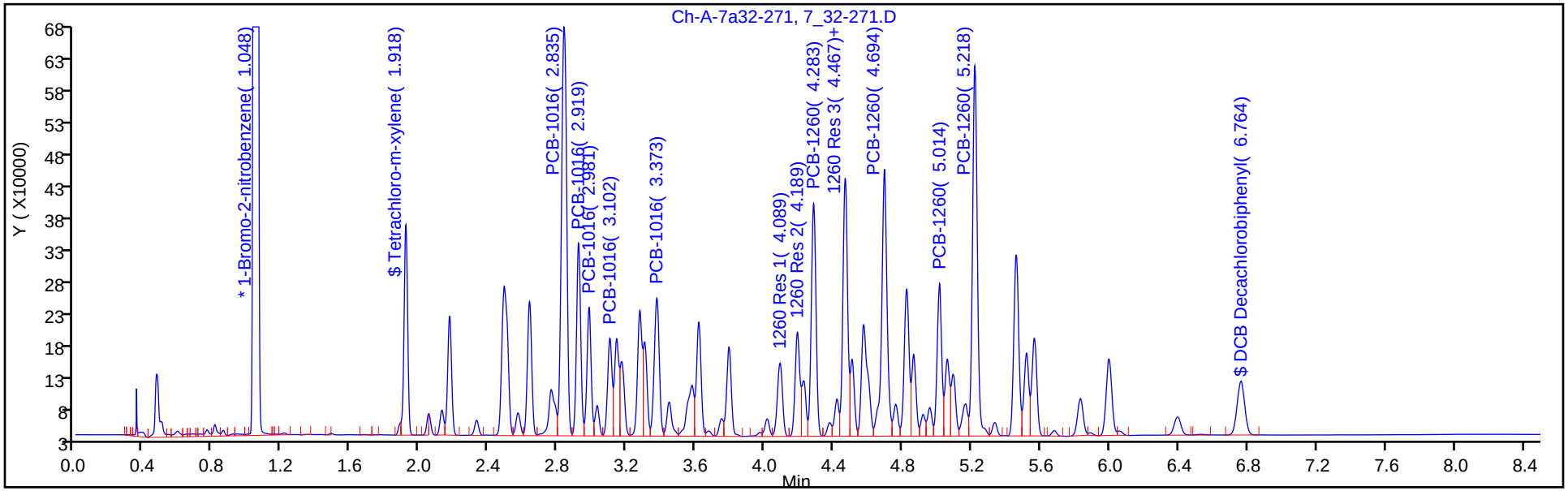
Report Date: 06-Dec-2018 09:05:28 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

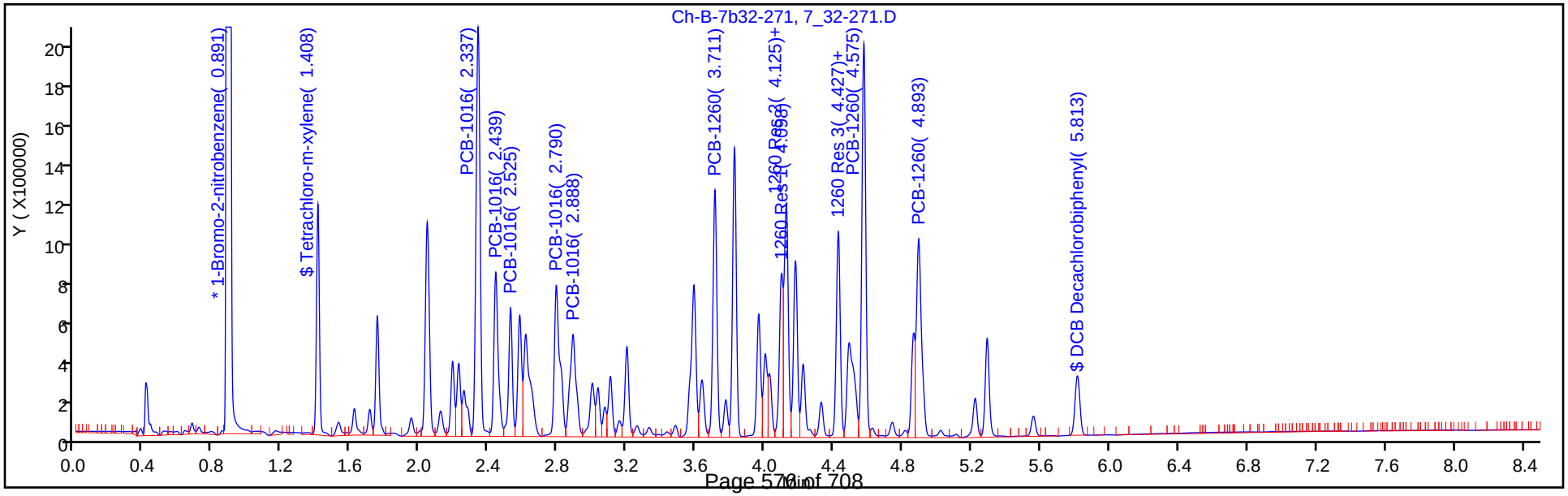
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D

Injection Date:	05-Dec-2018 12:32:06	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 06-Dec-2018 09:05:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D

Injection Date: 05-Dec-2018 12:32:06 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

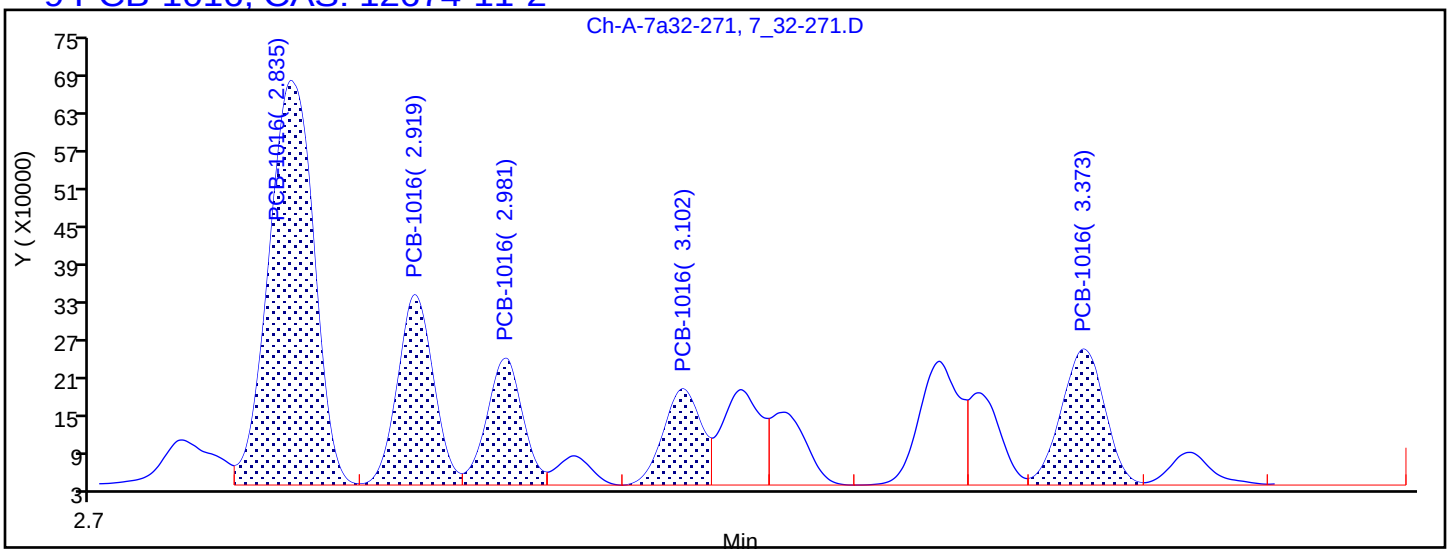
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

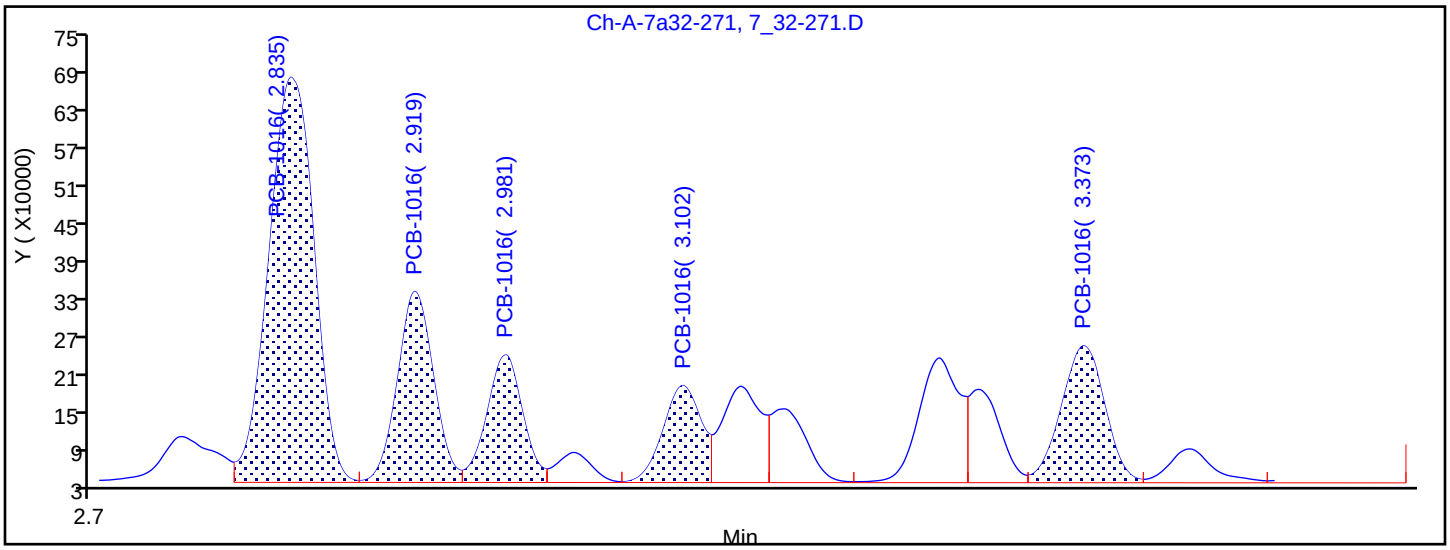
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.835	Response = 1369425
2.919	Response = 510799
2.981	Response = 339045
3.102	Response = 272499
3.373	Response = 441262



Manual Integration Results

2.835	Response = 1375721	M
2.919	Response = 516278	M
2.981	Response = 343740	M
3.102	Response = 277459	M
3.373	Response = 449318	M

Reviewer: thongjanw, 06-Dec-2018 09:04:58

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 06-Dec-2018 09:05:29 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D

Injection Date: 05-Dec-2018 12:32:06 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

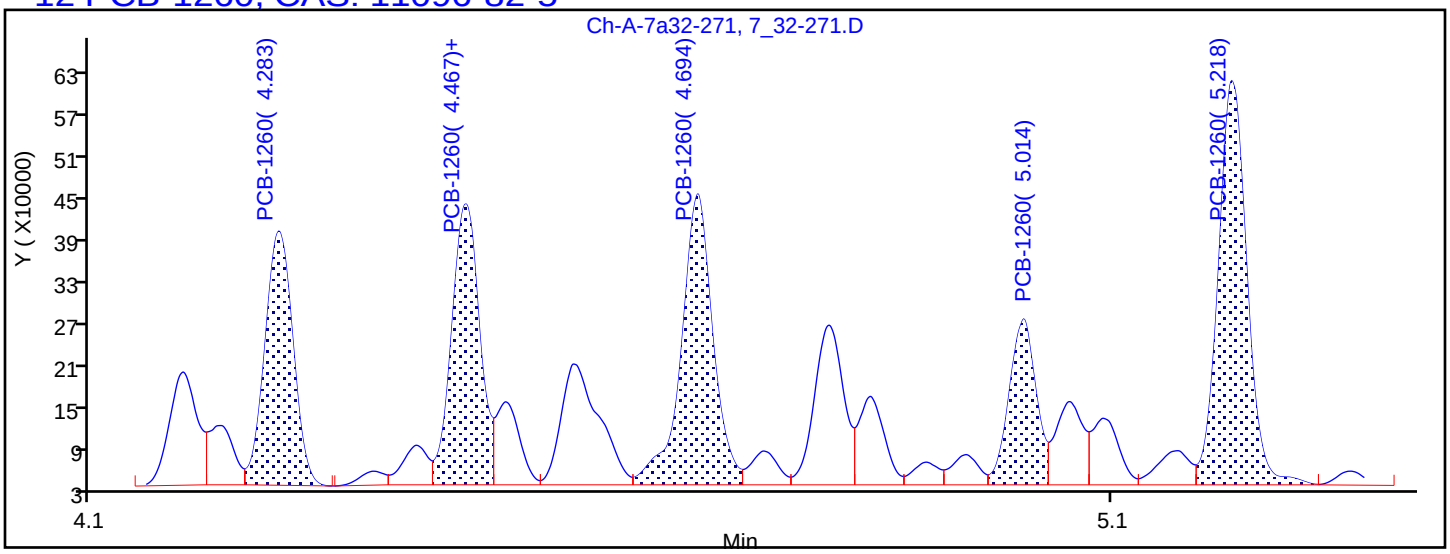
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

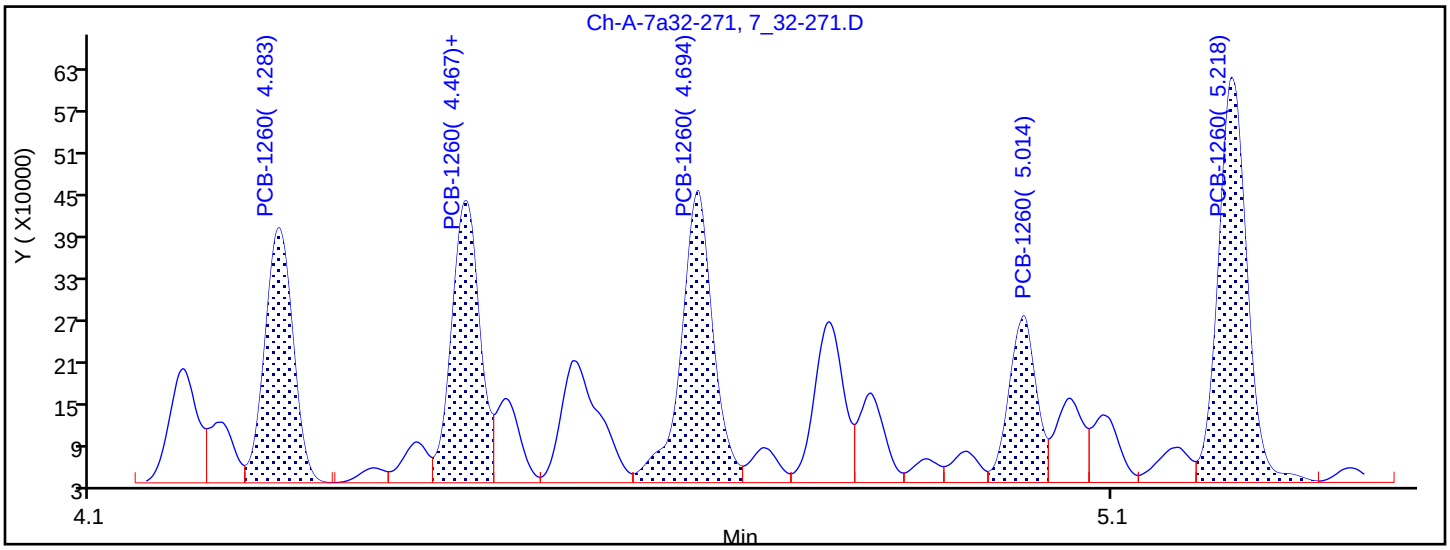
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.283	Response = 699456
4.467	Response = 772768
4.694	Response = 906901
5.014	Response = 439062
5.218	Response = 1134538



Manual Integration Results

4.283	Response = 705033	M
4.467	Response = 779353	M
4.694	Response = 917805	M
5.014	Response = 444339	M
5.218	Response = 1144183	M

Reviewer: thongjanw, 06-Dec-2018 09:05:03

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449147/5 Calibration Date: 12/05/2018 12:32

Instrument ID: HP6890-7 Calib Start Date: 09/17/2018 15:22

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 09/17/2018 16:42

Lab File ID: 7_32-271.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Lin1		1.481		0.0151	0.0125	21.1*	20.0
DCB Decachlorobiphenyl	Lin1		0.7984		0.0130	0.0125	4.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449147/5 Calibration Date: 12/05/2018 12:32

Instrument ID: HP6890-7 Calib Start Date: 09/17/2018 15:22

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 09/17/2018 16:42

Lab File ID: 7_32-271.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.92	1.89	1.95
DCB Decachlorobiphenyl	6.76	6.73	6.79

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Dec-2018 12:32:06 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:05:27 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0307

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:05:27

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	13150750	0.5000	0.5000	
2	0.891	0.891	0.000	39612620	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	486769	0.0125	0.0151	M
2	1.408	1.408	0.000	1327162	0.0125	0.0139	
						RPD = 8.69	
9 PCB-1016							M
1	2.835	2.835	0.000	1375721	0.5000	0.4917	M
1	2.919	2.919	0.000	516278	0.5000	0.5367	M
1	2.981	2.981	0.000	343740	0.5000	0.4639	M
1	3.102	3.102	0.000	277459	0.5000	0.5307	M
1	3.373	3.373	0.000	449318	0.5000	0.4712	M
		Average of Peak Amounts =				0.4988	
2	2.337	2.337	0.000	3317042	0.5000	0.4802	
2	2.439	2.439	0.000	1408137	0.5000	0.4450	
2	2.525	2.525	0.000	947011	0.5000	0.5693	
2	2.790	2.790	0.000	1672164	0.5000	0.4560	
2	2.888	2.888	0.000	1273571	0.5000	0.5371	
		Average of Peak Amounts =				0.4975	
						RPD = 0.26	
2 1260 Res 1							M
1	4.089	4.089	0.000	243826	NC	NC	M
2	4.098	4.098	0.000	1179963	NC	NC	
4 1260 Res 2							M
1	4.189	4.189	0.000	316041	NC	NC	M
2	4.125	4.125	0.000	1890152	NC	NC	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.283	4.283	0.000	705033	0.5000	0.4148	M
1	4.467	4.467	0.000	779353	0.5000	0.4092	M
1	4.694	4.694	0.000	917805	0.5000	0.4179	M
1	5.014	5.014	0.000	444339	0.5000	0.4586	M
1	5.218	5.218	0.000	1144183	0.5000	0.5012	M
		Average of Peak Amounts =				0.4403	
2	3.711	3.711	0.000	1933003	0.5000	0.4528	
2	4.125	4.125	0.000	1890152	0.5000	0.4151	
2	4.427	4.427	0.000	1614340	0.5000	0.5015	
2	4.575	4.575	0.000	3027859	0.5000	0.4738	
2	4.893	4.893	0.000	2029591	0.5000	0.4667	
		Average of Peak Amounts =				0.4620	
						RPD = 4.80	
3 1260 Res 3							M
1	4.467	4.467	0.000	779353	NC	NC	M
2	4.427	4.427	0.000	1614340	NC	NC	
$ 15 DCB Decachlorobiphenyl							M
1	6.764	6.764	0.000	262489	0.0125	0.0130	
2	5.813	5.813	0.000	569430	0.0125	0.0147	M
						RPD = 11.94	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00053 Amount Added: 1.00 Units: mL

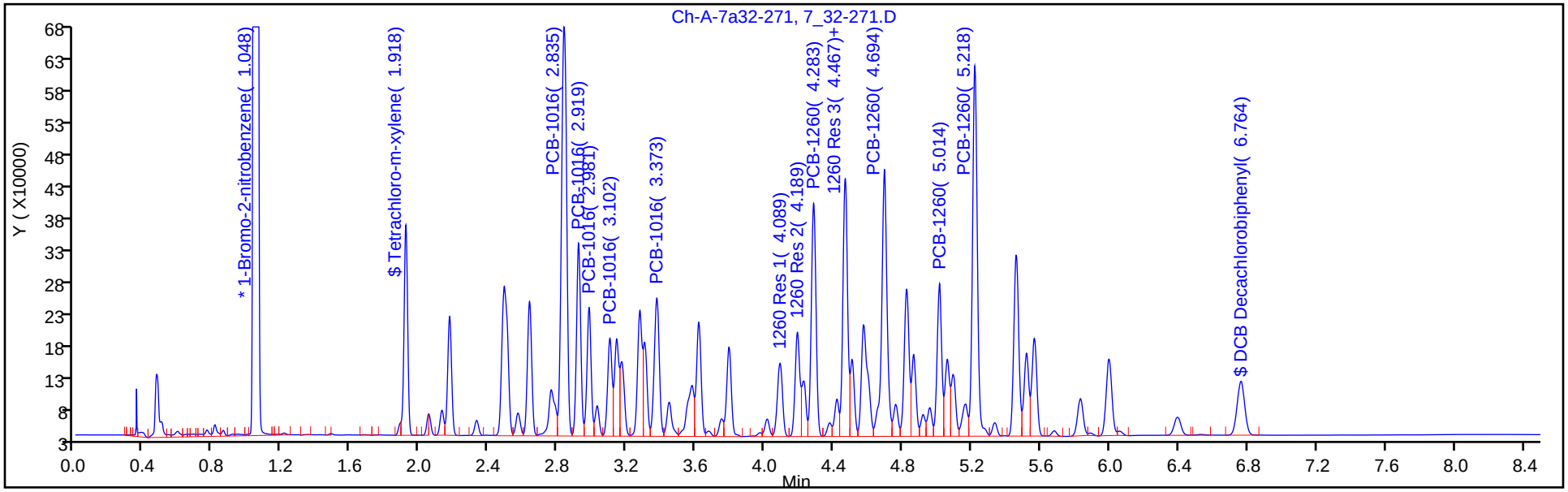
Report Date: 06-Dec-2018 09:05:28 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

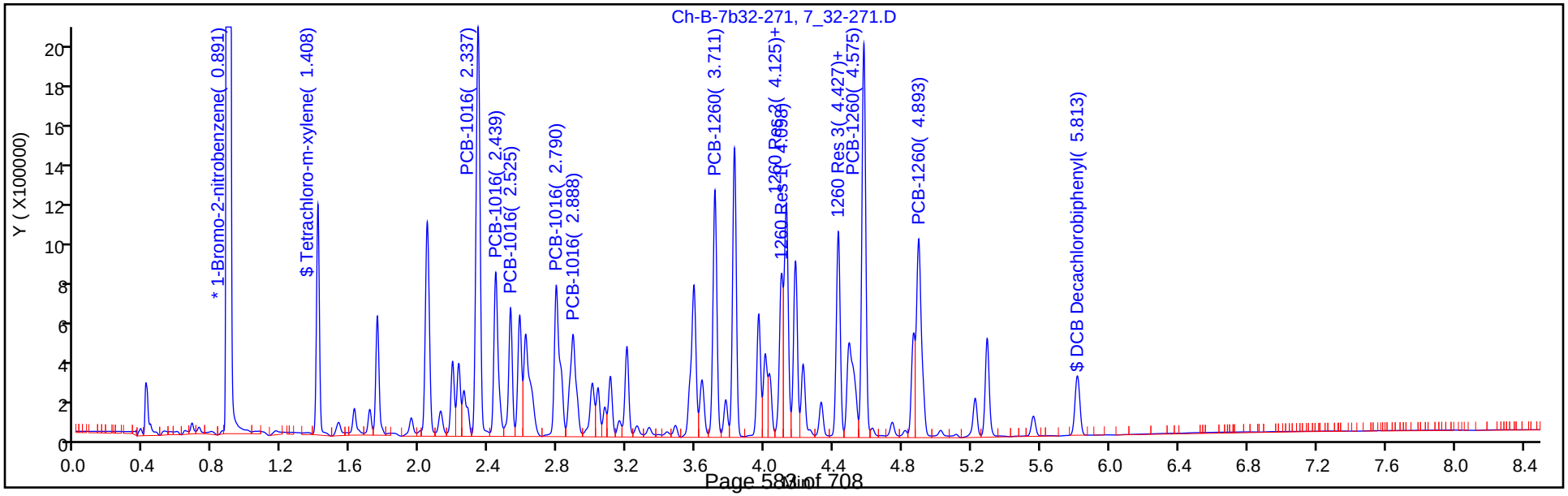
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D

Injection Date:	05-Dec-2018 12:32:06	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

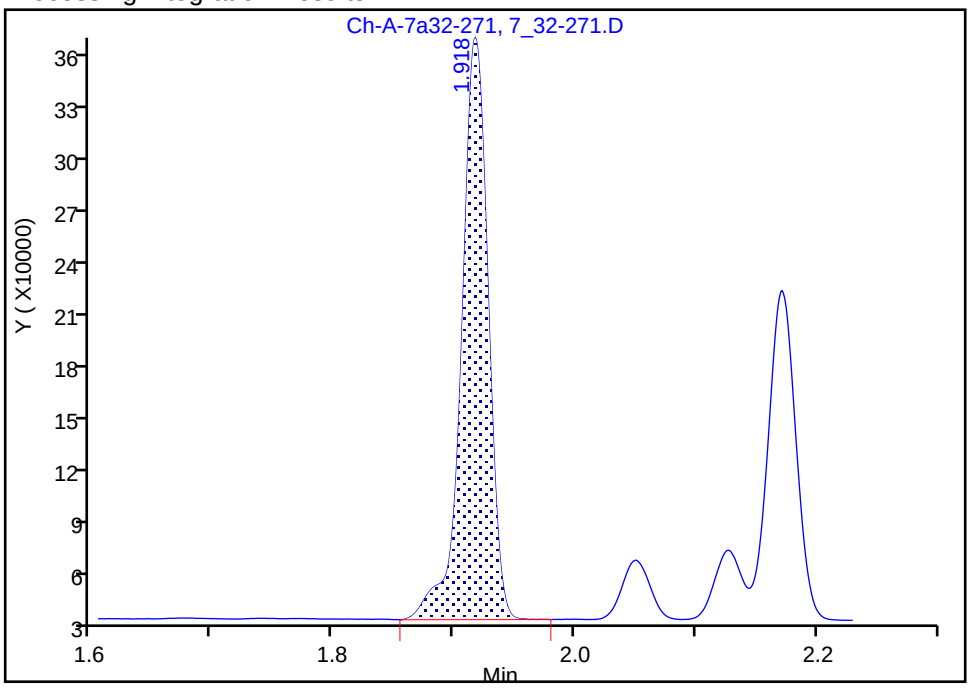
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D
Injection Date: 05-Dec-2018 12:32:06 Instrument ID: HP6890-7
Lims ID: CCVIS
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

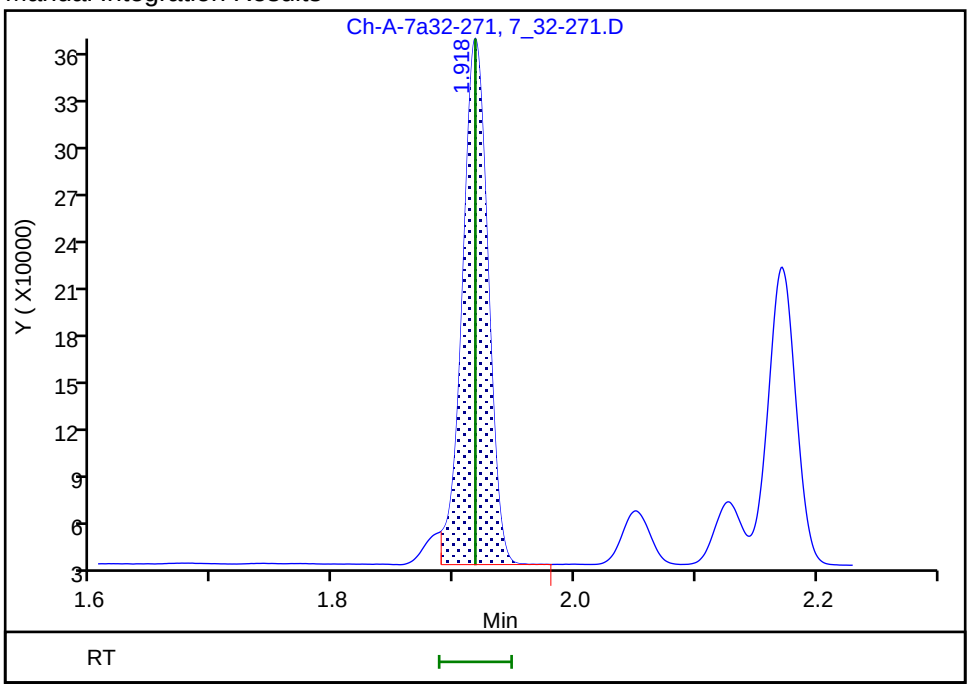
Processing Integration Results

RT: 1.92
Area: 505661
Amount: 0.015742
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 486769
Amount: 0.015141
Amount Units: ng/uL



Reviewer: thongjanw, 06-Dec-2018 09:05:22
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449147/5 Calibration Date: 12/05/2018 12:32

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 14:26

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 16:02

Lab File ID: 7_32-271.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0872	0.0837		0.480	0.500	-4.0	20.0
PCB-1016 Peak 2	Ave	0.0399	0.0356		0.445	0.500	-11.0	20.0
PCB-1016 Peak 3	Lin1		0.0239		0.569	0.500	13.9	20.0
PCB-1016 Peak 4	Ave	0.0463	0.0422		0.456	0.500	-8.8	20.0
PCB-1016 Peak 5	Lin1		0.0322		0.537	0.500	7.4	20.0
PCB-1260 Peak 1	Ave	0.0539	0.0488		0.453	0.500	-9.4	20.0
PCB-1260 Peak 2	Ave	0.0575	0.0477		0.415	0.500	-17.0	20.0
PCB-1260 Peak 3	Ave	0.0406	0.0408		0.501	0.500	0.3	20.0
PCB-1260 Peak 4	Ave	0.0807	0.0764		0.474	0.500	-5.2	20.0
PCB-1260 Peak 5	Ave	0.0549	0.0512		0.467	0.500	-6.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449147/5 Calibration Date: 12/05/2018 12:32

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 14:26

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 16:02

Lab File ID: 7_32-271.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.34	2.31	2.37
PCB-1016 Peak 2	2.44	2.41	2.47
PCB-1016 Peak 3	2.53	2.50	2.56
PCB-1016 Peak 4	2.79	2.76	2.82
PCB-1016 Peak 5	2.89	2.86	2.92
PCB-1260 Peak 1	3.71	3.68	3.74
PCB-1260 Peak 2	4.13	4.10	4.16
PCB-1260 Peak 3	4.43	4.40	4.46
PCB-1260 Peak 4	4.58	4.55	4.61
PCB-1260 Peak 5	4.89	4.86	4.92

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Dec-2018 12:32:06 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:05:27 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0307

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:05:27

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	13150750	0.5000	0.5000	
2	0.891	0.891	0.000	39612620	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	486769	0.0125	0.0151	M
2	1.408	1.408	0.000	1327162	0.0125	0.0139	
						RPD = 8.69	
9 PCB-1016							M
1	2.835	2.835	0.000	1375721	0.5000	0.4917	M
1	2.919	2.919	0.000	516278	0.5000	0.5367	M
1	2.981	2.981	0.000	343740	0.5000	0.4639	M
1	3.102	3.102	0.000	277459	0.5000	0.5307	M
1	3.373	3.373	0.000	449318	0.5000	0.4712	M
		Average of Peak Amounts =				0.4988	
2	2.337	2.337	0.000	3317042	0.5000	0.4802	
2	2.439	2.439	0.000	1408137	0.5000	0.4450	
2	2.525	2.525	0.000	947011	0.5000	0.5693	
2	2.790	2.790	0.000	1672164	0.5000	0.4560	
2	2.888	2.888	0.000	1273571	0.5000	0.5371	
		Average of Peak Amounts =				0.4975	
						RPD = 0.26	
2 1260 Res 1							M
1	4.089	4.089	0.000	243826	NC	NC	M
2	4.098	4.098	0.000	1179963	NC	NC	
4 1260 Res 2							M
1	4.189	4.189	0.000	316041	NC	NC	M
2	4.125	4.125	0.000	1890152	NC	NC	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.283	4.283	0.000	705033	0.5000	0.4148	M
1	4.467	4.467	0.000	779353	0.5000	0.4092	M
1	4.694	4.694	0.000	917805	0.5000	0.4179	M
1	5.014	5.014	0.000	444339	0.5000	0.4586	M
1	5.218	5.218	0.000	1144183	0.5000	0.5012	M
		Average of Peak Amounts =				0.4403	
2	3.711	3.711	0.000	1933003	0.5000	0.4528	
2	4.125	4.125	0.000	1890152	0.5000	0.4151	
2	4.427	4.427	0.000	1614340	0.5000	0.5015	
2	4.575	4.575	0.000	3027859	0.5000	0.4738	
2	4.893	4.893	0.000	2029591	0.5000	0.4667	
		Average of Peak Amounts =				0.4620	
						RPD = 4.80	
3 1260 Res 3							M
1	4.467	4.467	0.000	779353	NC	NC	M
2	4.427	4.427	0.000	1614340	NC	NC	
$ 15 DCB Decachlorobiphenyl							M
1	6.764	6.764	0.000	262489	0.0125	0.0130	
2	5.813	5.813	0.000	569430	0.0125	0.0147	M
						RPD = 11.94	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00053 Amount Added: 1.00 Units: mL

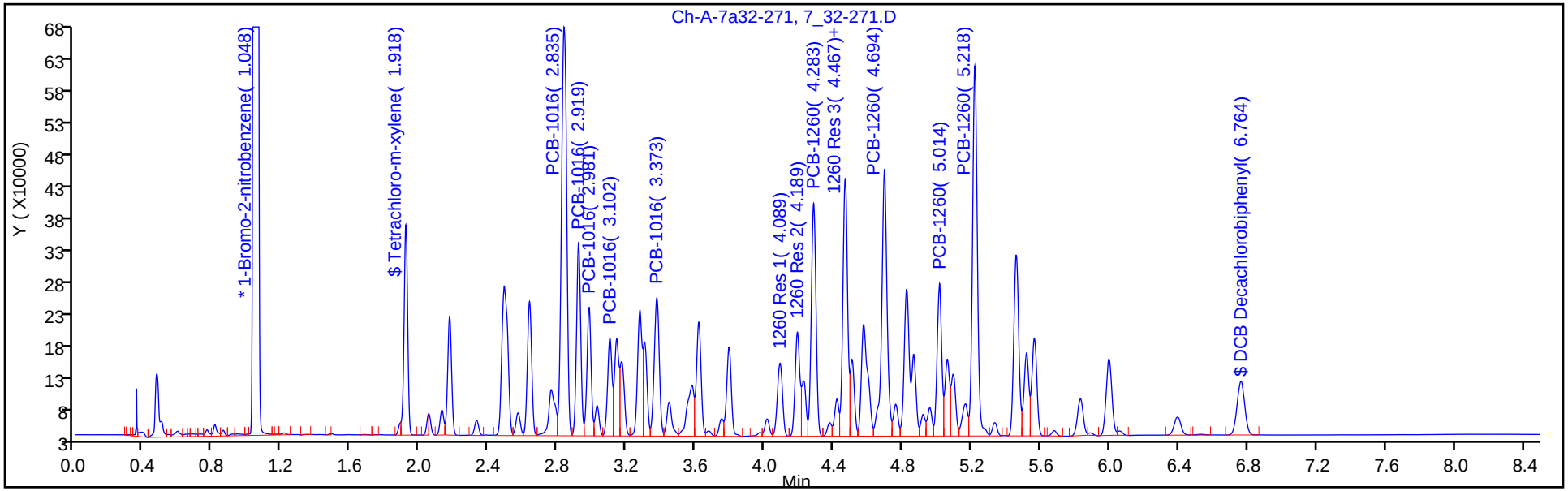
Report Date: 06-Dec-2018 09:05:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

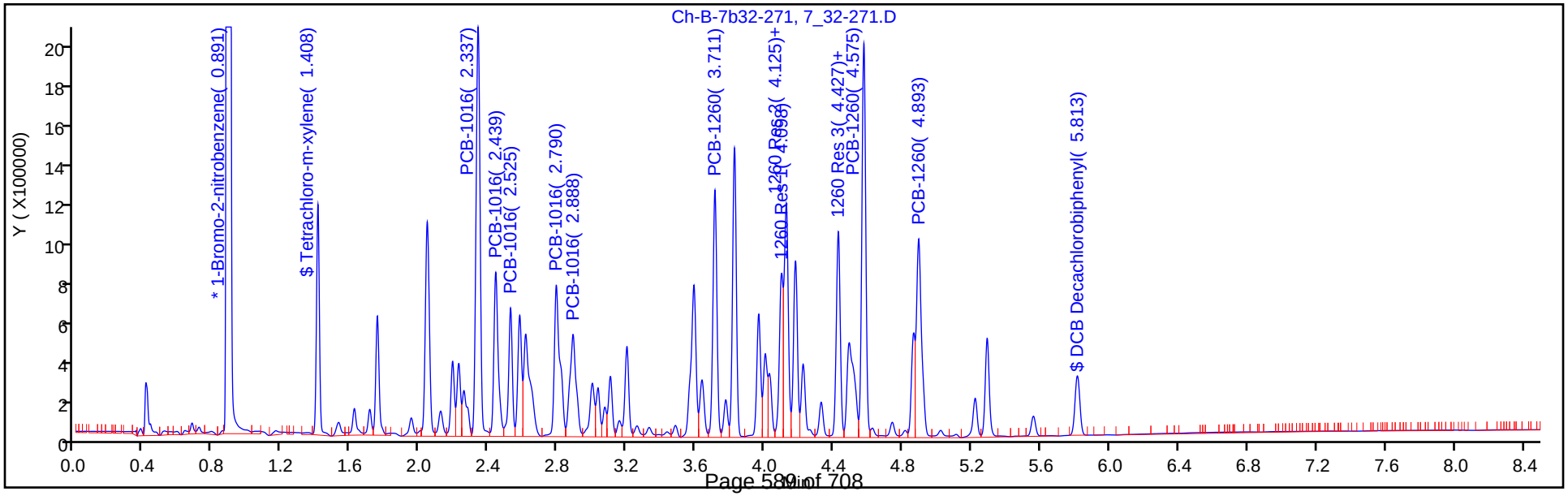
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D

Injection Date:	05-Dec-2018 12:32:06	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449147/5 Calibration Date: 12/05/2018 12:32

Instrument ID: HP6890-7 Calib Start Date: 09/17/2018 15:22

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 09/17/2018 16:42

Lab File ID: 7_32-271.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Lin1		1.340		0.0139	0.0125	11.0	20.0
DCB Decachlorobiphenyl	Lin1		0.5750		0.0147	0.0125	17.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCVIS 480-449147/5 Calibration Date: 12/05/2018 12:32

Instrument ID: HP6890-7 Calib Start Date: 09/17/2018 15:22

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 09/17/2018 16:42

Lab File ID: 7_32-271.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.41	1.38	1.44
DCB Decachlorobiphenyl	5.81	5.78	5.84

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Dec-2018 12:32:06 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:05:27 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0307

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:05:27

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	13150750	0.5000	0.5000	
2	0.891	0.891	0.000	39612620	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	486769	0.0125	0.0151	M
2	1.408	1.408	0.000	1327162	0.0125	0.0139	
						RPD = 8.69	
9 PCB-1016							M
1	2.835	2.835	0.000	1375721	0.5000	0.4917	M
1	2.919	2.919	0.000	516278	0.5000	0.5367	M
1	2.981	2.981	0.000	343740	0.5000	0.4639	M
1	3.102	3.102	0.000	277459	0.5000	0.5307	M
1	3.373	3.373	0.000	449318	0.5000	0.4712	M
		Average of Peak Amounts =				0.4988	
2	2.337	2.337	0.000	3317042	0.5000	0.4802	
2	2.439	2.439	0.000	1408137	0.5000	0.4450	
2	2.525	2.525	0.000	947011	0.5000	0.5693	
2	2.790	2.790	0.000	1672164	0.5000	0.4560	
2	2.888	2.888	0.000	1273571	0.5000	0.5371	
		Average of Peak Amounts =				0.4975	
						RPD = 0.26	
2 1260 Res 1							M
1	4.089	4.089	0.000	243826	NC	NC	M
2	4.098	4.098	0.000	1179963	NC	NC	
4 1260 Res 2							M
1	4.189	4.189	0.000	316041	NC	NC	M
2	4.125	4.125	0.000	1890152	NC	NC	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.283	4.283	0.000	705033	0.5000	0.4148	M
1	4.467	4.467	0.000	779353	0.5000	0.4092	M
1	4.694	4.694	0.000	917805	0.5000	0.4179	M
1	5.014	5.014	0.000	444339	0.5000	0.4586	M
1	5.218	5.218	0.000	1144183	0.5000	0.5012	M
		Average of Peak Amounts =				0.4403	
2	3.711	3.711	0.000	1933003	0.5000	0.4528	
2	4.125	4.125	0.000	1890152	0.5000	0.4151	
2	4.427	4.427	0.000	1614340	0.5000	0.5015	
2	4.575	4.575	0.000	3027859	0.5000	0.4738	
2	4.893	4.893	0.000	2029591	0.5000	0.4667	
		Average of Peak Amounts =				0.4620	
						RPD = 4.80	
3 1260 Res 3							M
1	4.467	4.467	0.000	779353	NC	NC	M
2	4.427	4.427	0.000	1614340	NC	NC	
$ 15 DCB Decachlorobiphenyl							M
1	6.764	6.764	0.000	262489	0.0125	0.0130	
2	5.813	5.813	0.000	569430	0.0125	0.0147	M
						RPD = 11.94	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00053 Amount Added: 1.00 Units: mL

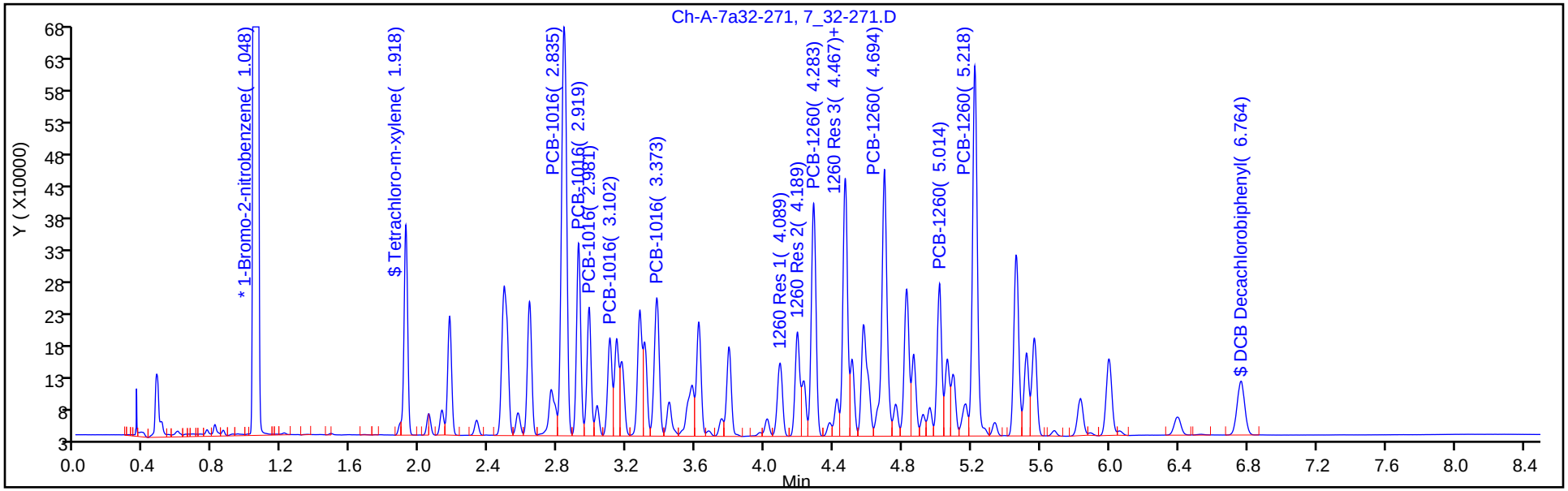
Report Date: 06-Dec-2018 09:05:30 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

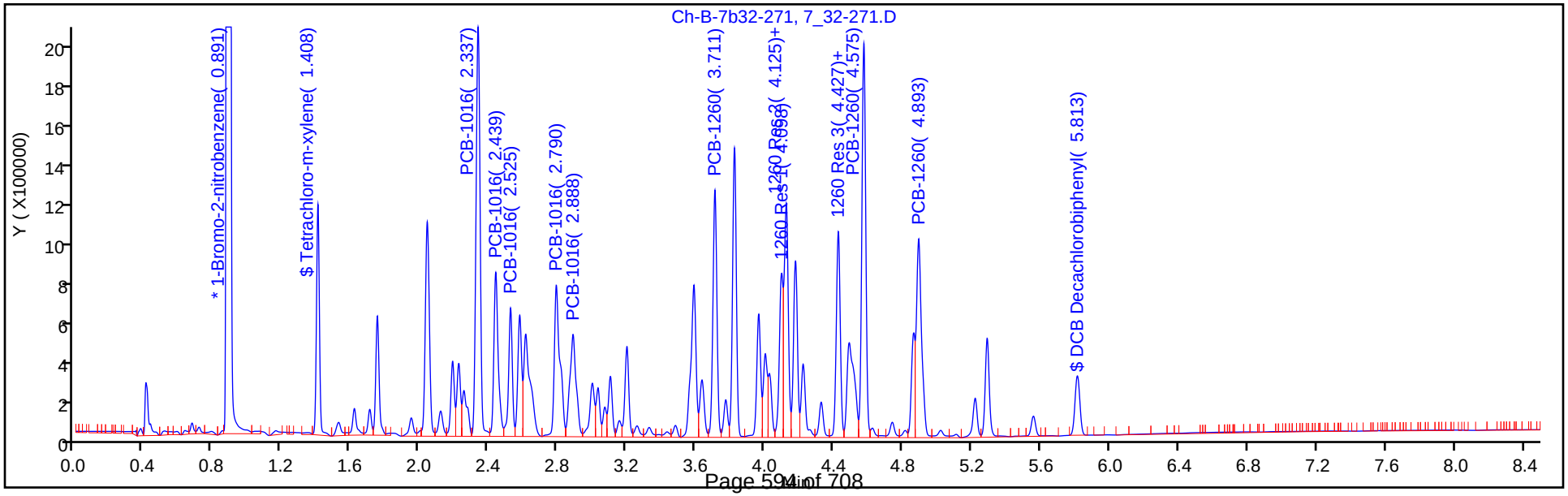
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D

Injection Date:	05-Dec-2018 12:32:06	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

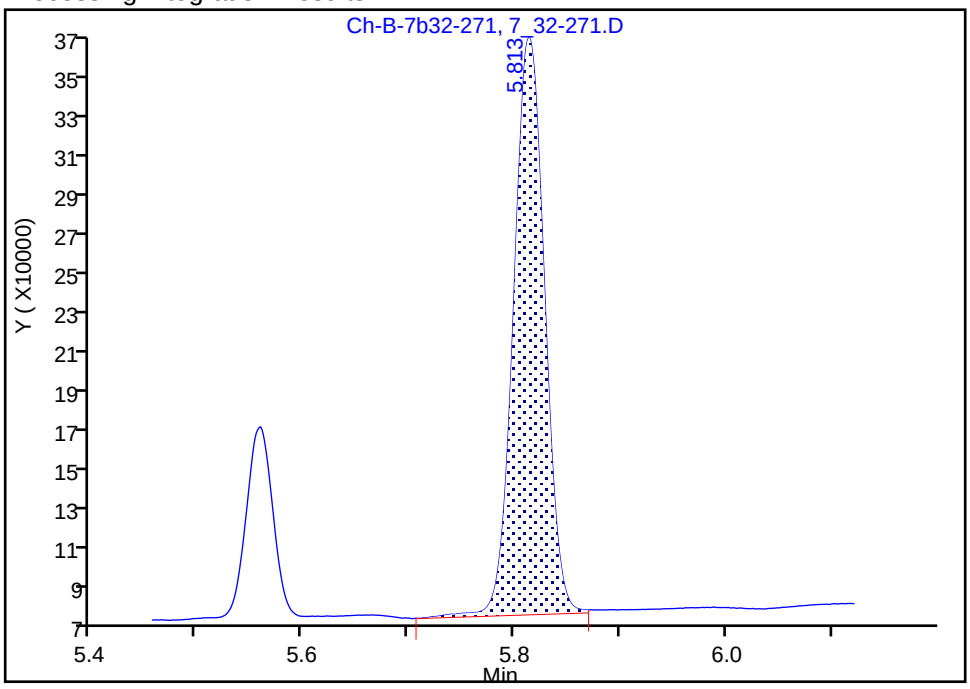
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-271.D
Injection Date: 05-Dec-2018 12:32:06 Instrument ID: HP6890-7
Lims ID: CCVIS
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

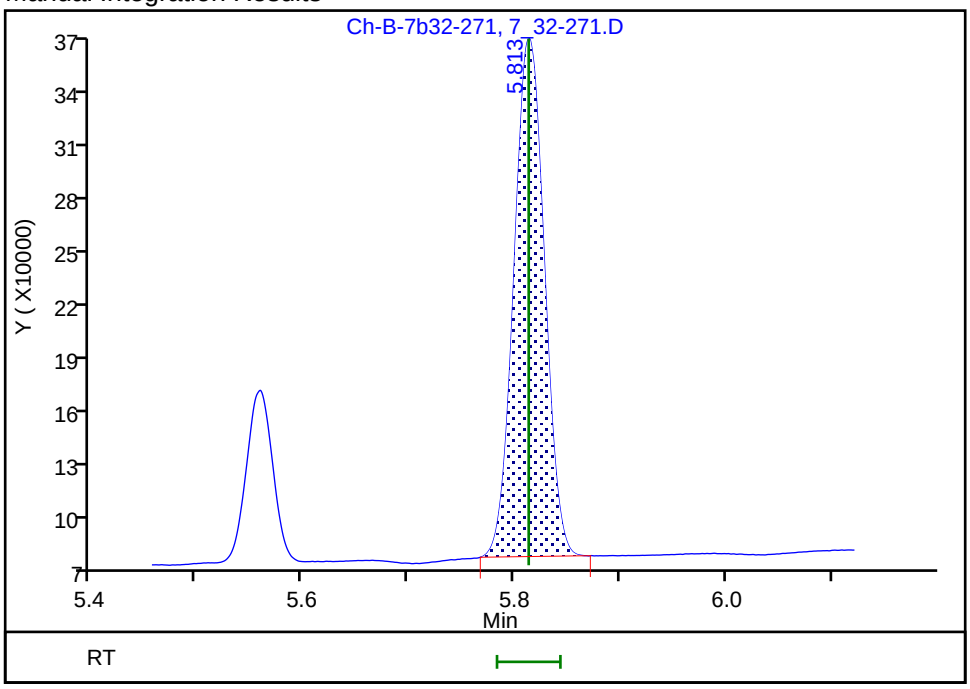
Processing Integration Results

RT: 5.81
Area: 586162
Amount: 0.015133
Amount Units: ng/uL



Manual Integration Results

RT: 5.81
Area: 569430
Amount: 0.014674
Amount Units: ng/uL



Reviewer: clarkda, 05-Dec-2018 13:27:58
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/6 Calibration Date: 12/05/2018 12:47

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 17:37

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 18:09

Lab File ID: 7_32-272.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0077		0.375	0.500	-24.9*	20.0
PCB-1221 Peak 2	Lin1		0.0142		0.382	0.500	-23.7*	20.0
PCB-1221 Peak 3	Lin1		0.0088		0.553	0.500	10.5	20.0
PCB-1221 Peak 4	Lin1		0.0330		0.575	0.500	14.9	20.0
PCB-1254 Peak 1	Lin1		0.0639		0.579	0.500	15.7	20.0
PCB-1254 Peak 2	Ave	0.0423	0.0417		0.492	0.500	-1.5	20.0
PCB-1254 Peak 3	Ave	0.0770	0.0755		0.490	0.500	-2.0	20.0
PCB-1254 Peak 4	Ave	0.0770	0.0758		0.492	0.500	-1.6	20.0
PCB-1254 Peak 5	Lin1		0.0604		0.549	0.500	9.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/6 Calibration Date: 12/05/2018 12:47

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 17:37

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 18:09

Lab File ID: 7_32-272.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.48	1.45	1.51
PCB-1221 Peak 2	2.05	2.02	2.08
PCB-1221 Peak 3	2.13	2.10	2.16
PCB-1221 Peak 4	2.17	2.14	2.20
PCB-1254 Peak 1	3.79	3.76	3.82
PCB-1254 Peak 2	4.01	3.98	4.04
PCB-1254 Peak 3	4.09	4.06	4.12
PCB-1254 Peak 4	4.29	4.26	4.32
PCB-1254 Peak 5	4.69	4.66	4.72

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-272.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 05-Dec-2018 12:47:56 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:18:39 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:18:39

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	13348395	0.5000	0.5000	
2	0.891	0.891	0.000	39287210	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.483	1.483	0.000	102318	0.5000	0.3755	
1	2.051	2.051	0.000	189676	0.5000	0.3815	M
1	2.126	2.126	0.000	117849	0.5000	0.5525	M
1	2.172	2.172	0.000	440259	0.5000	0.5747	M
		Average of Peak Amounts =				0.4710	
2	1.163	1.163	0.000	303302	0.5000	0.5353	
2	1.618	1.618	0.000	515952	0.5000	0.5526	
2	1.708	1.708	0.000	306768	0.5000	0.4893	
2	1.753	1.753	0.000	1134122	0.5000	0.5217	
		Average of Peak Amounts =				0.5247	
						RPD = 10.78	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							M
1	3.793	3.793	0.000	852265	0.5000	0.5785	M
1	4.013	4.013	0.000	556527	0.5000	0.4924	M
1	4.093	4.093	0.000	1007395	0.5000	0.4901	M
1	4.292	4.292	0.000	1012004	0.5000	0.4921	M
1	4.694	4.694	0.000	806411	0.5000	0.5488	M
		Average of Peak Amounts =				0.5204	
2	3.200	3.200	0.000	1749112	0.5000	0.6106	M
2	3.566	3.566	0.000	2898326	0.5000	0.5238	M
2	3.705	3.705	0.000	2931621	0.5000	0.5278	M
2	3.998	3.998	0.000	1687966	0.5000	0.5315	M
2	4.125	4.125	0.000	2401643	0.5000	0.6185	M
		Average of Peak Amounts =				0.5625	
						RPD = 7.77	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00032 Amount Added: 1.00 Units: mL

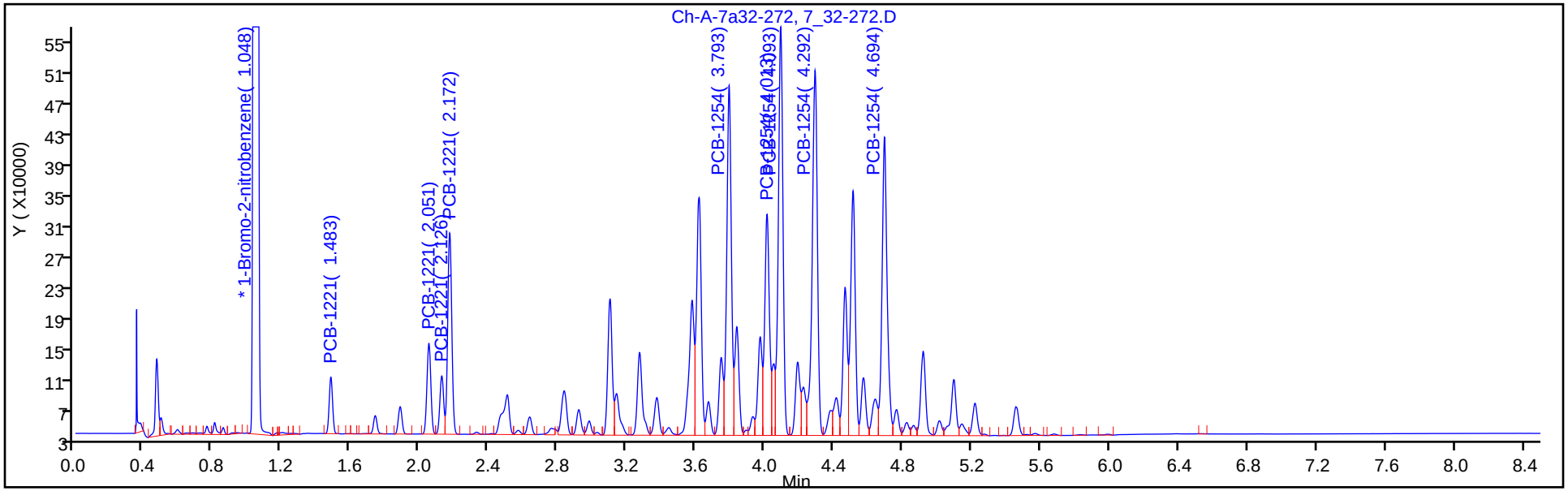
Report Date: 06-Dec-2018 09:18:39 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

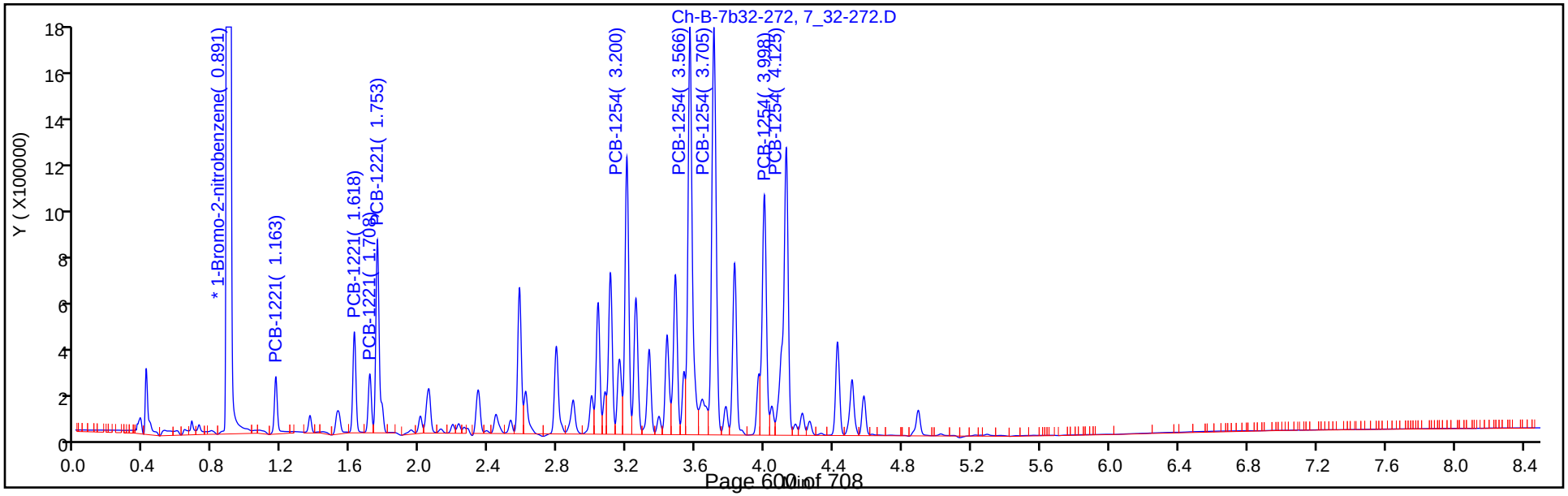
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-272.D

Injection Date:	05-Dec-2018 12:47:56	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 06-Dec-2018 09:18:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-272.D

Injection Date: 05-Dec-2018 12:47:56 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

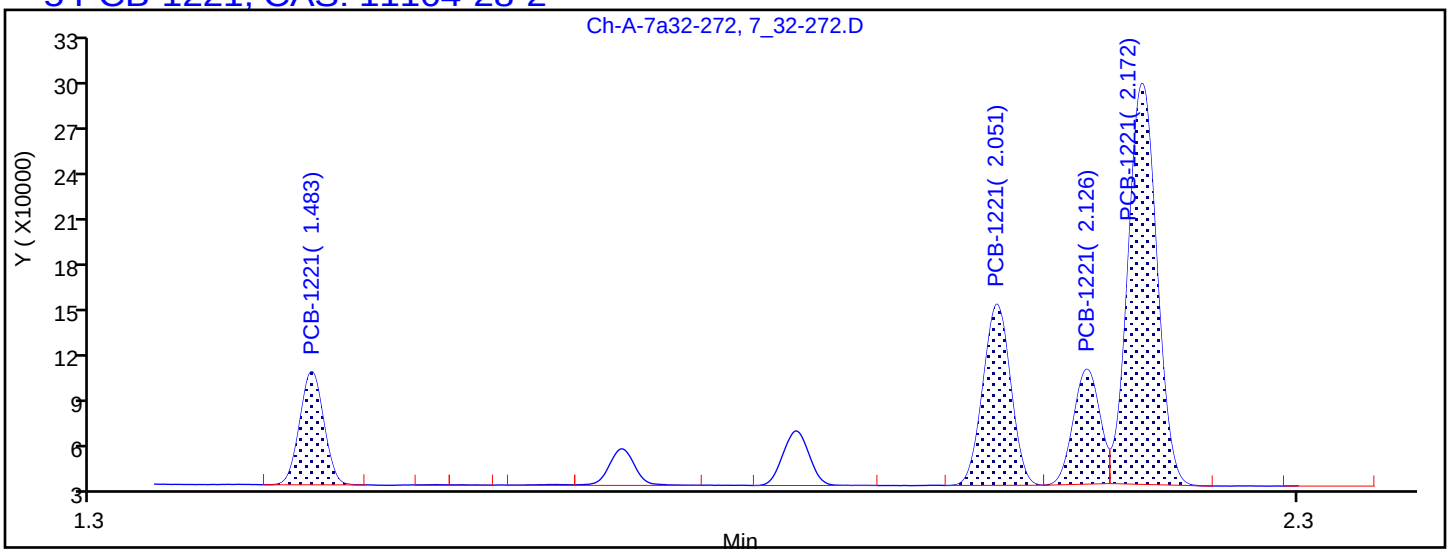
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

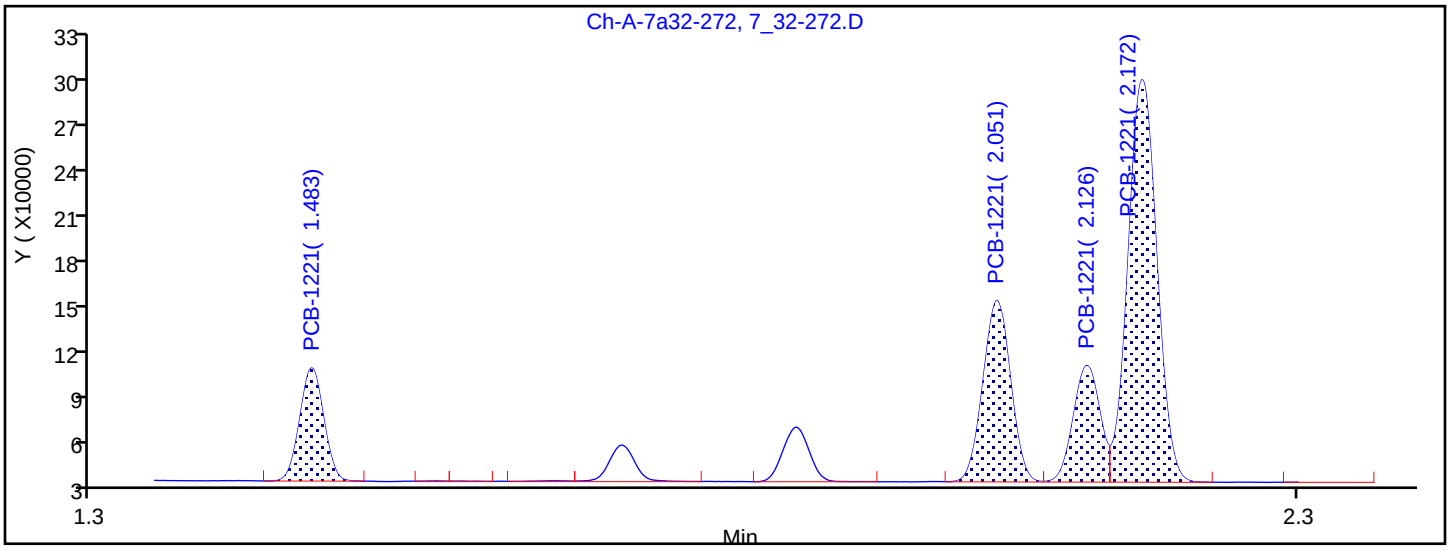
Column: Detector Ch-A-7A136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.483	Response = 102318
2.051	Response = 188725
2.126	Response = 114750
2.172	Response = 436385



Manual Integration Results

1.483	Response = 102318	
2.051	Response = 189676	M
2.126	Response = 117849	M
2.172	Response = 440259	M

Reviewer: thongjanw, 06-Dec-2018 09:17:50

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 06-Dec-2018 09:18:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-272.D

Injection Date: 05-Dec-2018 12:47:56 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

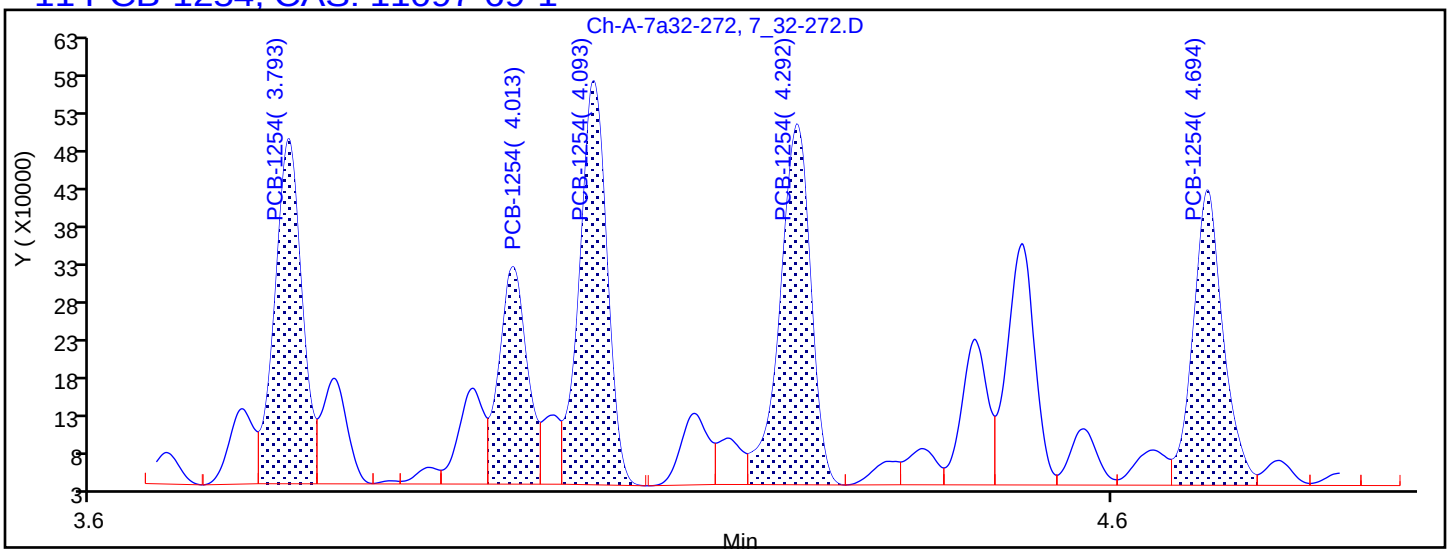
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

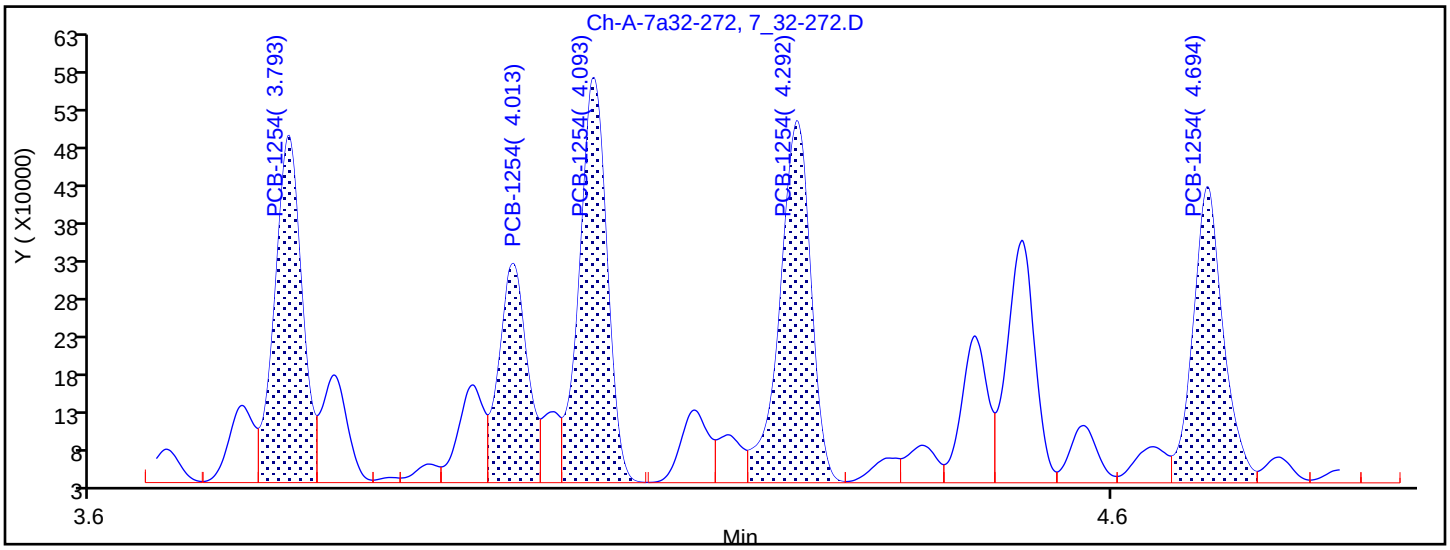
Column: Detector Ch-A-7A136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

3.793	Response = 842424
4.013	Response = 548973
4.093	Response = 1000814
4.292	Response = 1002166
4.694	Response = 800614



Manual Integration Results

3.793	Response = 852265	M
4.013	Response = 556527	M
4.093	Response = 1007395	M
4.292	Response = 1012004	M
4.694	Response = 806411	M

Reviewer: thongjanw, 06-Dec-2018 09:17:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/6 Calibration Date: 12/05/2018 12:47

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 17:37

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 18:09

Lab File ID: 7_32-272.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0077		0.535	0.500	7.1	20.0
PCB-1221 Peak 2	Lin1		0.0131		0.553	0.500	10.5	20.0
PCB-1221 Peak 3	Lin1		0.0078		0.489	0.500	-2.1	20.0
PCB-1221 Peak 4	Lin1		0.0289		0.522	0.500	4.3	20.0
PCB-1254 Peak 1	Lin1		0.0445		0.611	0.500	22.1*	20.0
PCB-1254 Peak 2	Ave	0.0704	0.0738		0.524	0.500	4.8	20.0
PCB-1254 Peak 3	Ave	0.0707	0.0746		0.528	0.500	5.6	20.0
PCB-1254 Peak 4	Ave	0.0404	0.0430		0.532	0.500	6.3	20.0
PCB-1254 Peak 5	Lin1		0.0611		0.619	0.500	23.7*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/6 Calibration Date: 12/05/2018 12:47

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 17:37

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 18:09

Lab File ID: 7_32-272.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.16	1.13	1.19
PCB-1221 Peak 2	1.62	1.59	1.65
PCB-1221 Peak 3	1.71	1.68	1.74
PCB-1221 Peak 4	1.75	1.72	1.78
PCB-1254 Peak 1	3.20	3.17	3.23
PCB-1254 Peak 2	3.57	3.54	3.60
PCB-1254 Peak 3	3.71	3.68	3.74
PCB-1254 Peak 4	4.00	3.97	4.03
PCB-1254 Peak 5	4.13	4.10	4.16

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-272.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 05-Dec-2018 12:47:56 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:18:39 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:18:39

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	13348395	0.5000	0.5000	
2	0.891	0.891	0.000	39287210	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.483	1.483	0.000	102318	0.5000	0.3755	
1	2.051	2.051	0.000	189676	0.5000	0.3815	M
1	2.126	2.126	0.000	117849	0.5000	0.5525	M
1	2.172	2.172	0.000	440259	0.5000	0.5747	M
		Average of Peak Amounts =				0.4710	
2	1.163	1.163	0.000	303302	0.5000	0.5353	
2	1.618	1.618	0.000	515952	0.5000	0.5526	
2	1.708	1.708	0.000	306768	0.5000	0.4893	
2	1.753	1.753	0.000	1134122	0.5000	0.5217	
		Average of Peak Amounts =				0.5247	
						RPD = 10.78	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							M
1	3.793	3.793	0.000	852265	0.5000	0.5785	M
1	4.013	4.013	0.000	556527	0.5000	0.4924	M
1	4.093	4.093	0.000	1007395	0.5000	0.4901	M
1	4.292	4.292	0.000	1012004	0.5000	0.4921	M
1	4.694	4.694	0.000	806411	0.5000	0.5488	M
		Average of Peak Amounts =				0.5204	
2	3.200	3.200	0.000	1749112	0.5000	0.6106	M
2	3.566	3.566	0.000	2898326	0.5000	0.5238	M
2	3.705	3.705	0.000	2931621	0.5000	0.5278	M
2	3.998	3.998	0.000	1687966	0.5000	0.5315	M
2	4.125	4.125	0.000	2401643	0.5000	0.6185	M
		Average of Peak Amounts =				0.5625	
						RPD = 7.77	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00032 Amount Added: 1.00 Units: mL

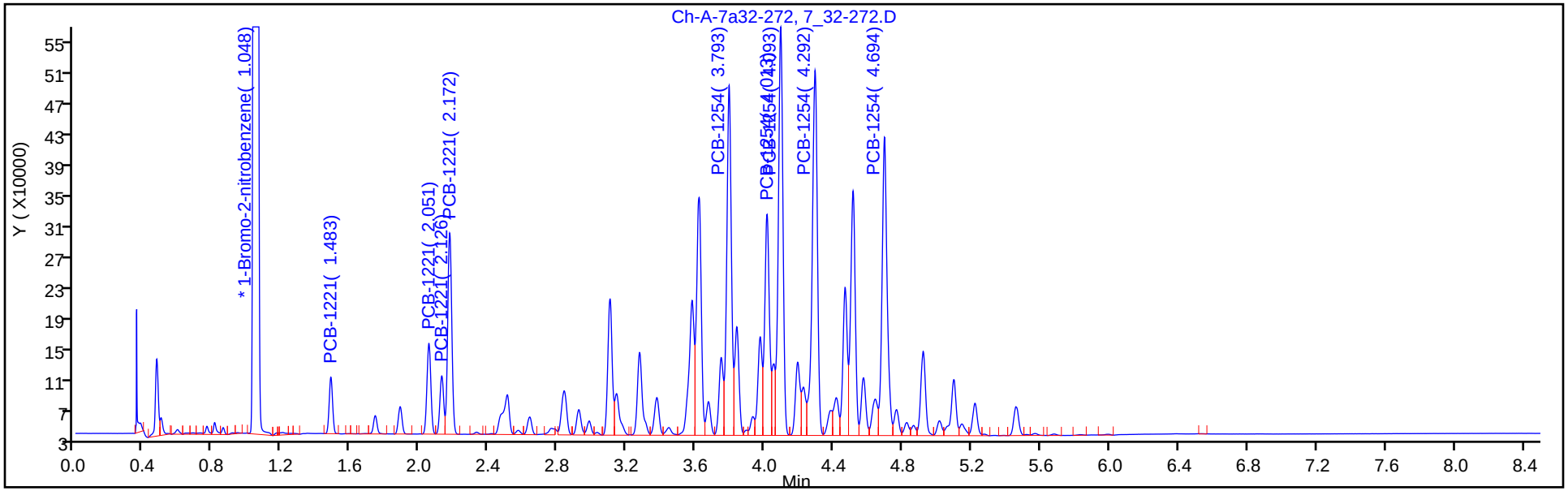
Report Date: 06-Dec-2018 09:18:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

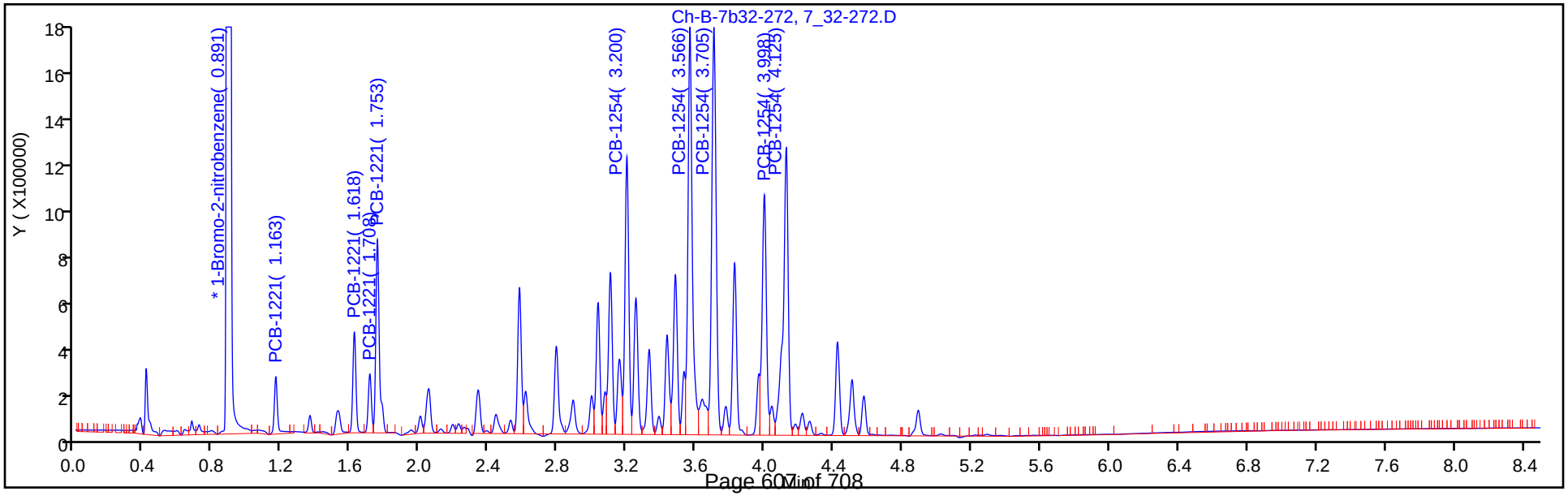
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-272.D

Injection Date:	05-Dec-2018 12:47:56	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 06-Dec-2018 09:18:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-272.D

Injection Date: 05-Dec-2018 12:47:56 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

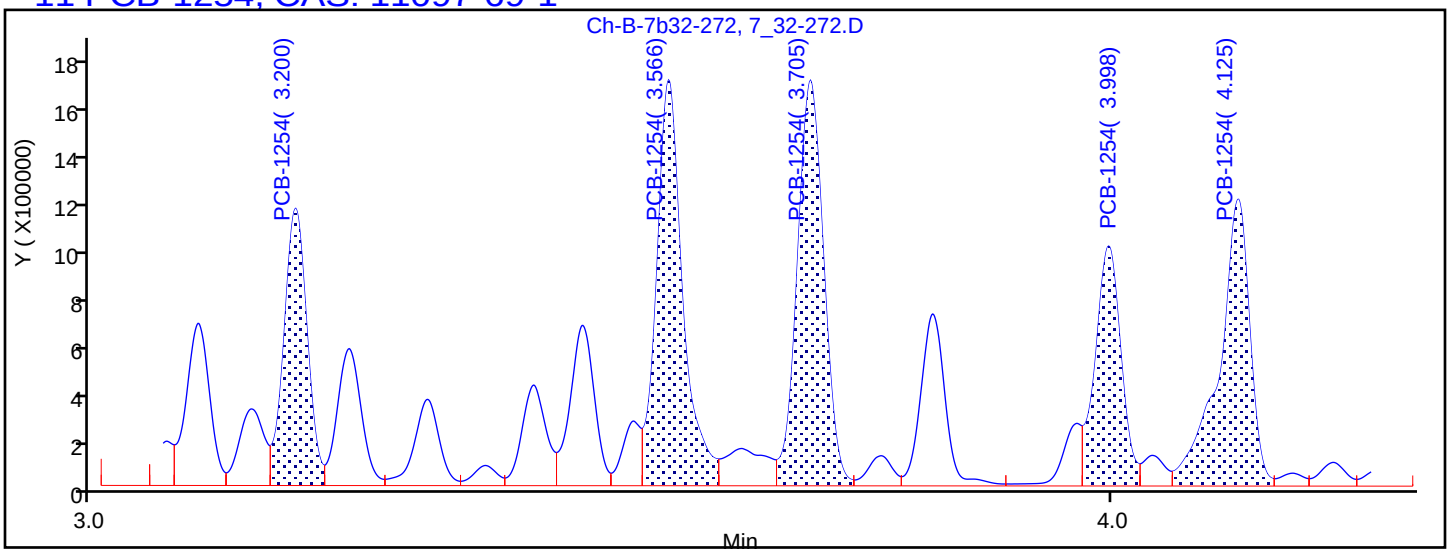
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

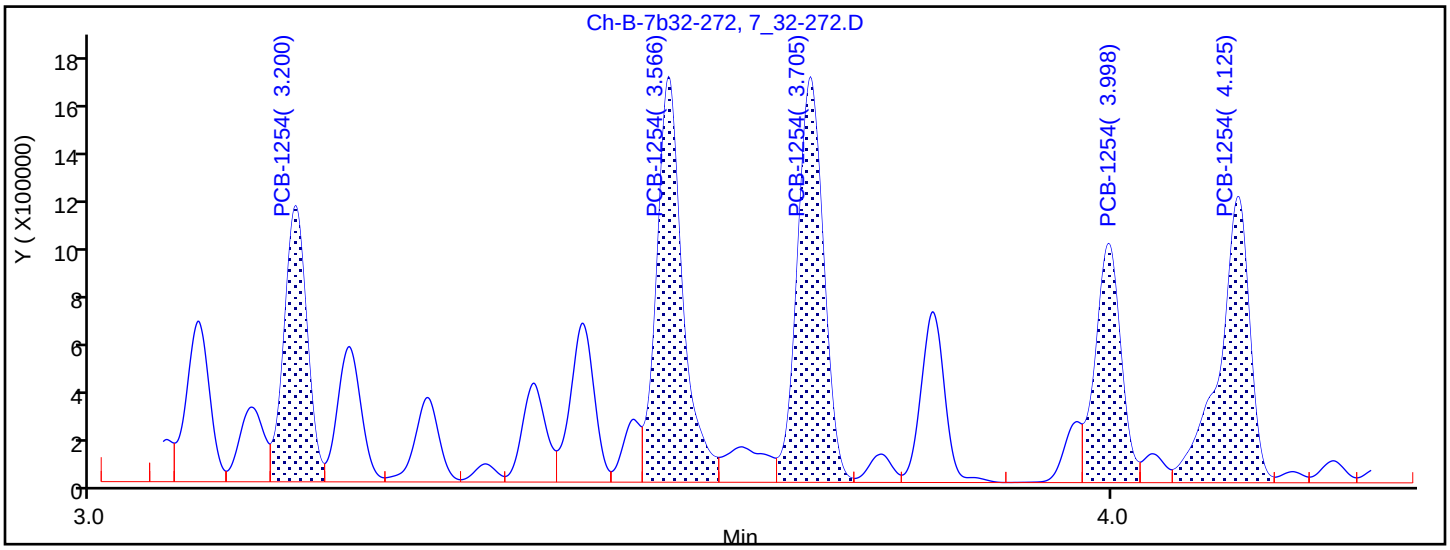
Column: Detector Ch-B-7b136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

3.200	Response = 1777593
3.566	Response = 2935060
3.705	Response = 2967584
3.998	Response = 1713301
4.125	Response = 2445875



Manual Integration Results

3.200	Response = 1749112	M
3.566	Response = 2898326	M
3.705	Response = 2931621	M
3.998	Response = 1687966	M
4.125	Response = 2401643	M

Reviewer: thongjanw, 06-Dec-2018 09:18:18

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/7 Calibration Date: 12/05/2018 13:03

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 18:41

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 19:13

Lab File ID: 7_32-273.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0253		0.538	0.500	7.6	20.0
PCB-1232 Peak 2	Lin1		0.0127		0.344	0.500	-31.2*	20.0
PCB-1232 Peak 3	Lin1		0.0449		0.541	0.500	8.2	20.0
PCB-1232 Peak 4	Lin1		0.0145		0.430	0.500	-14.0	20.0
PCB-1232 Peak 5	Lin1		0.0094		0.424	0.500	-15.1	20.0
PCB-1262 Peak 1	Lin1		0.0420		0.549	0.500	9.8	20.0
PCB-1262 Peak 2	Lin1		0.0462		0.538	0.500	7.7	20.0
PCB-1262 Peak 3	Lin1		0.0397		0.511	0.500	2.1	20.0
PCB-1262 Peak 4	Qua		0.0609		0.429	0.500	-14.2	20.0
PCB-1262 Peak 5	Lin		0.0462		0.430	0.500	-14.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/7 Calibration Date: 12/05/2018 13:03

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 18:41

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 19:13

Lab File ID: 7_32-273.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.17	2.14	2.20
PCB-1232 Peak 2	2.64	2.61	2.67
PCB-1232 Peak 3	2.84	2.81	2.87
PCB-1232 Peak 4	2.92	2.89	2.95
PCB-1232 Peak 5	2.98	2.95	3.01
PCB-1262 Peak 1	4.28	4.25	4.31
PCB-1262 Peak 2	4.47	4.44	4.50
PCB-1262 Peak 3	4.69	4.66	4.72
PCB-1262 Peak 4	4.82	4.79	4.85
PCB-1262 Peak 5	5.01	4.98	5.04

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-273.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 05-Dec-2018 13:03:47 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:20:07 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:20:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.047	0.000	13489888	0.5000	0.5000	
2	0.890	0.890	0.000	39778392	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.171	2.171	0.000	341830	0.5000	0.5380	
1	2.635	2.635	0.000	171435	0.5000	0.3438	M
1	2.835	2.835	0.000	605798	0.5000	0.5409	M
1	2.919	2.919	0.000	194988	0.5000	0.4302	M
1	2.980	2.980	0.000	126806	0.5000	0.4243	M
		Average of Peak Amounts =				0.4555	
2	1.753	1.753	0.000	914776	0.5000	0.4722	
2	2.043	2.043	0.000	860010	0.5000	0.5591	
2	2.337	2.337	0.000	1473788	0.5000	0.4753	
2	2.439	2.439	0.000	634117	0.5000	0.4831	
2	2.790	2.790	0.000	736192	0.5000	0.5681	
		Average of Peak Amounts =				0.5116	
						RPD = 11.60	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13	PCB-1262						M
1	4.283	4.283	0.000	566372	0.5000	0.5492	M
1	4.467	4.467	0.000	623045	0.5000	0.5383	M
1	4.693	4.693	0.000	535252	0.5000	0.5106	M
1	4.824	4.824	0.000	821263	0.5000	0.4292	M
1	5.013	5.013	0.000	622634	0.5000	0.4297	M
		Average of Peak Amounts =				0.4914	
2	3.711	3.711	0.000	1589656	0.5000	0.6023	
2	4.427	4.427	0.000	2046698	0.5000	0.6129	
2	4.574	4.574	0.000	3683505	0.5000	0.5270	
2	4.862	4.862	0.000	1450593	0.5000	0.4869	
2	4.897	4.897	0.000	2430190	0.5000	0.5602	
		Average of Peak Amounts =				0.5579	
						RPD = 12.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00035 Amount Added: 1.00 Units: mL

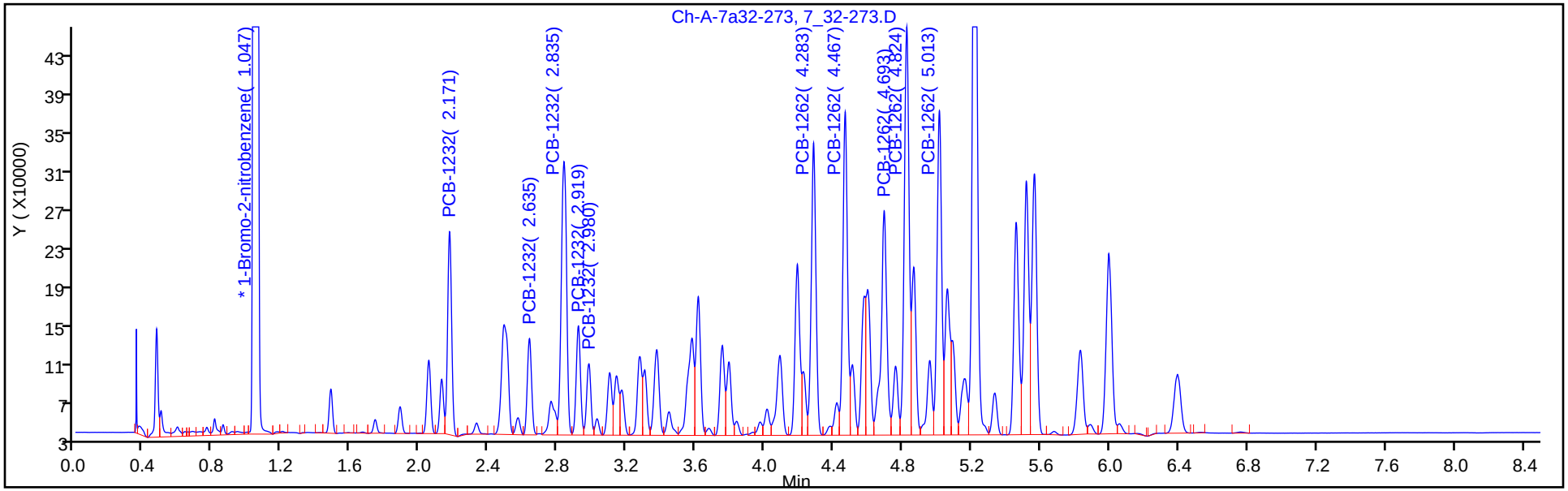
Report Date: 06-Dec-2018 09:20:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

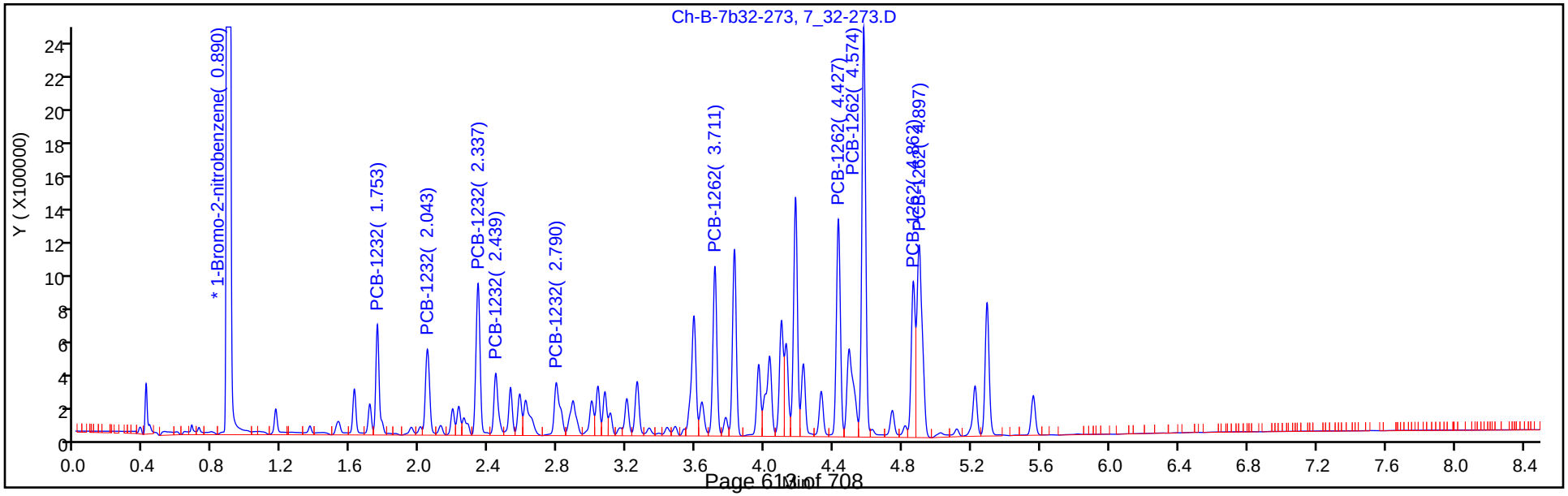
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-273.D

Injection Date:	05-Dec-2018 13:03:47	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 06-Dec-2018 09:20:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-273.D

Injection Date: 05-Dec-2018 13:03:47 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

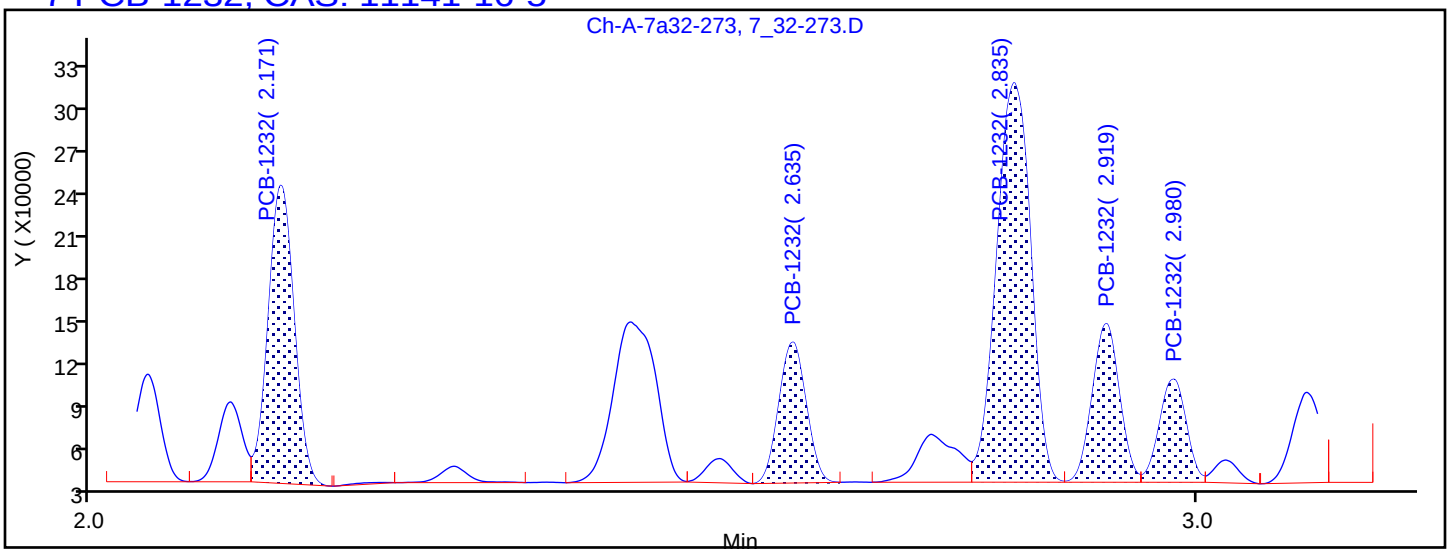
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

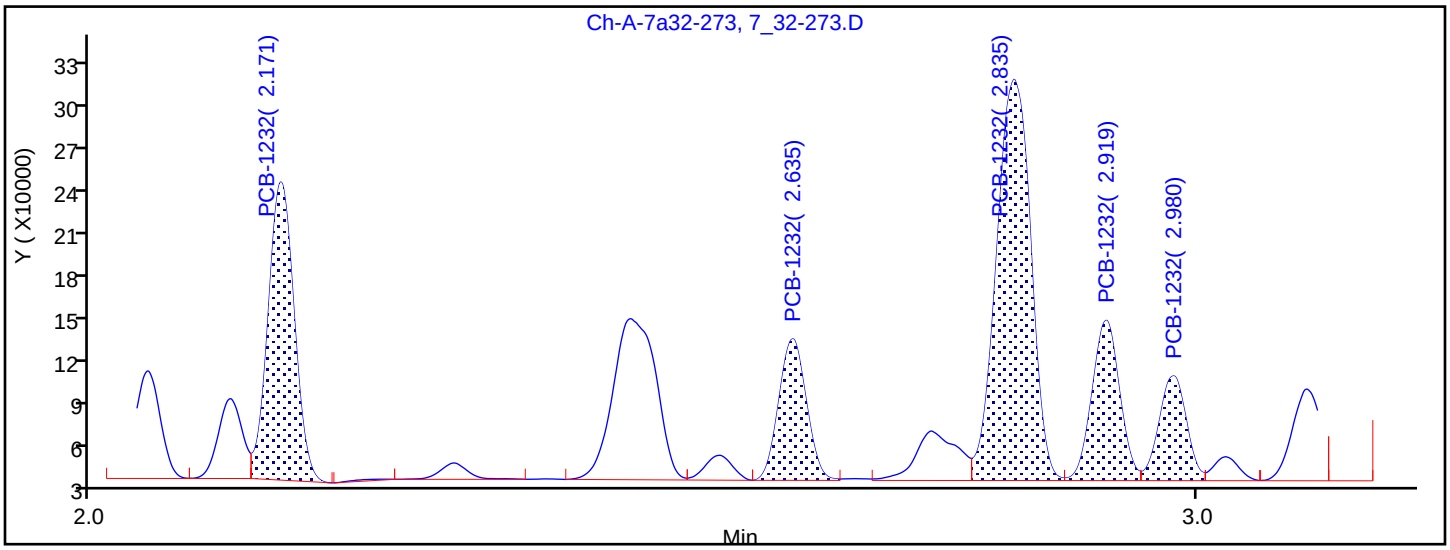
Column: Detector Ch-A-7A136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.171	Response = 341830
2.635	Response = 169141
2.835	Response = 600036
2.919	Response = 190185
2.980	Response = 122707



Manual Integration Results

2.171	Response = 341830	
2.635	Response = 171435	M
2.835	Response = 605798	M
2.919	Response = 194988	M
2.980	Response = 126806	M

Reviewer: thongjanw, 06-Dec-2018 09:19:21

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 06-Dec-2018 09:20:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-273.D

Injection Date: 05-Dec-2018 13:03:47 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

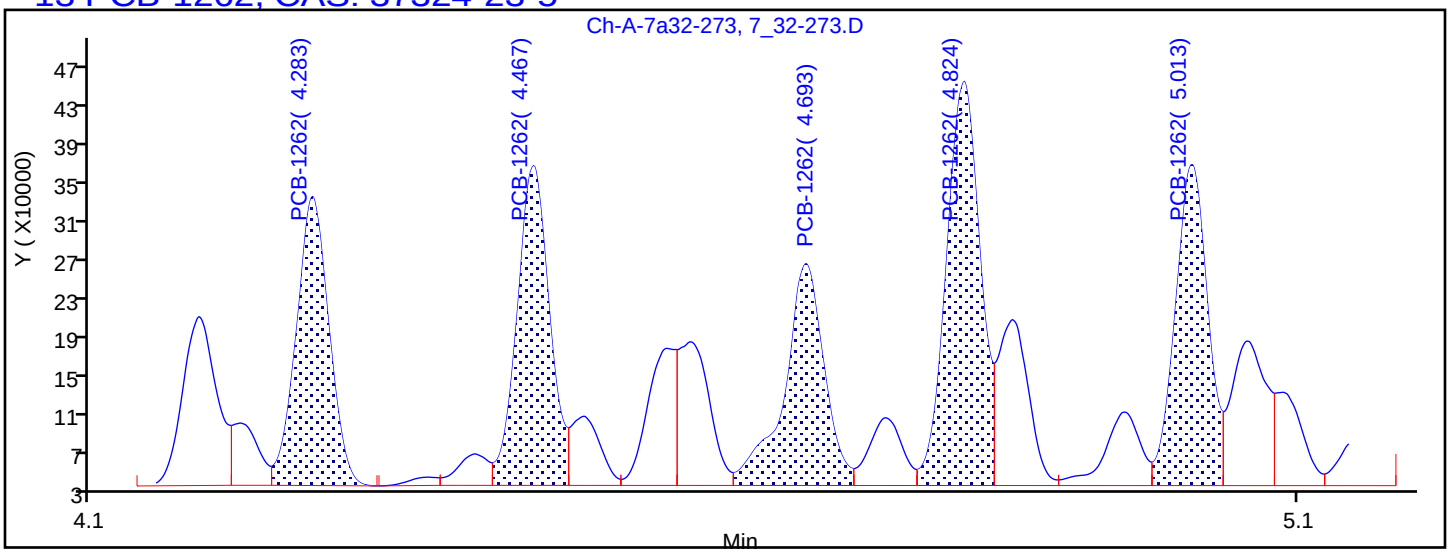
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

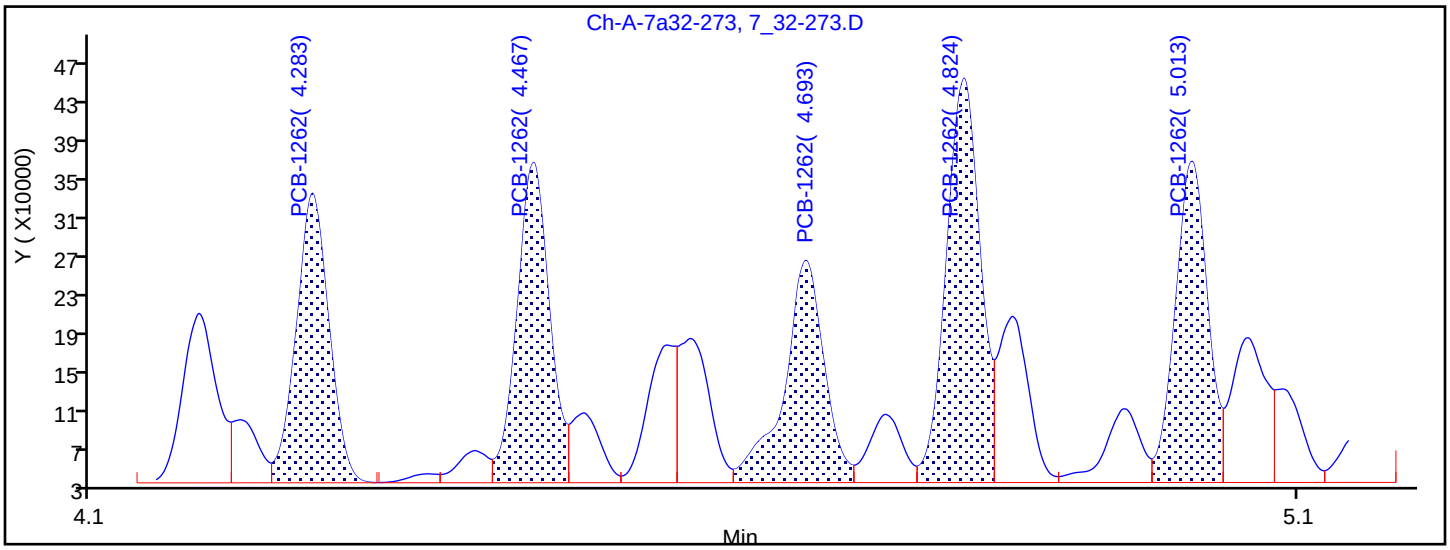
Column: Detector Ch-A-7A136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.283	Response = 563466
4.467	Response = 620370
4.693	Response = 532108
4.824	Response = 819667
5.013	Response = 621727



Manual Integration Results

4.283	Response = 566372	M
4.467	Response = 623045	M
4.693	Response = 535252	M
4.824	Response = 821263	M
5.013	Response = 622634	M

Reviewer: thongjanw, 06-Dec-2018 09:19:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/7 Calibration Date: 12/05/2018 13:03

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 18:41

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 19:13

Lab File ID: 7_32-273.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0230		0.472	0.500	-5.6	20.0
PCB-1232 Peak 2	Lin1		0.0216		0.559	0.500	11.8	20.0
PCB-1232 Peak 3	Ave	0.0390	0.0371		0.475	0.500	-4.9	20.0
PCB-1232 Peak 4	Ave	0.0165	0.0159		0.483	0.500	-3.4	20.0
PCB-1232 Peak 5	Lin1		0.0185		0.568	0.500	13.6	20.0
PCB-1262 Peak 1	Lin1		0.0400		0.602	0.500	20.5*	20.0
PCB-1262 Peak 2	Lin1		0.0515		0.613	0.500	22.6*	20.0
PCB-1262 Peak 3	Lin1		0.0926		0.527	0.500	5.4	20.0
PCB-1262 Peak 4	Lin1		0.0365		0.487	0.500	-2.6	20.0
PCB-1262 Peak 5	Lin1		0.0611		0.560	0.500	12.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/7 Calibration Date: 12/05/2018 13:03

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 18:41

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 19:13

Lab File ID: 7_32-273.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	1.75	1.72	1.78
PCB-1232 Peak 2	2.04	2.01	2.07
PCB-1232 Peak 3	2.34	2.31	2.37
PCB-1232 Peak 4	2.44	2.41	2.47
PCB-1232 Peak 5	2.79	2.76	2.82
PCB-1262 Peak 1	3.71	3.68	3.74
PCB-1262 Peak 2	4.43	4.40	4.46
PCB-1262 Peak 3	4.57	4.54	4.60
PCB-1262 Peak 4	4.86	4.83	4.89
PCB-1262 Peak 5	4.90	4.87	4.93

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-273.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 05-Dec-2018 13:03:47 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:20:07 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:20:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.047	0.000	13489888	0.5000	0.5000	
2	0.890	0.890	0.000	39778392	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.171	2.171	0.000	341830	0.5000	0.5380	
1	2.635	2.635	0.000	171435	0.5000	0.3438	M
1	2.835	2.835	0.000	605798	0.5000	0.5409	M
1	2.919	2.919	0.000	194988	0.5000	0.4302	M
1	2.980	2.980	0.000	126806	0.5000	0.4243	M
		Average of Peak Amounts =				0.4555	
2	1.753	1.753	0.000	914776	0.5000	0.4722	
2	2.043	2.043	0.000	860010	0.5000	0.5591	
2	2.337	2.337	0.000	1473788	0.5000	0.4753	
2	2.439	2.439	0.000	634117	0.5000	0.4831	
2	2.790	2.790	0.000	736192	0.5000	0.5681	
		Average of Peak Amounts =				0.5116	
						RPD = 11.60	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13	PCB-1262						M
1	4.283	4.283	0.000	566372	0.5000	0.5492	M
1	4.467	4.467	0.000	623045	0.5000	0.5383	M
1	4.693	4.693	0.000	535252	0.5000	0.5106	M
1	4.824	4.824	0.000	821263	0.5000	0.4292	M
1	5.013	5.013	0.000	622634	0.5000	0.4297	M
		Average of Peak Amounts =				0.4914	
2	3.711	3.711	0.000	1589656	0.5000	0.6023	
2	4.427	4.427	0.000	2046698	0.5000	0.6129	
2	4.574	4.574	0.000	3683505	0.5000	0.5270	
2	4.862	4.862	0.000	1450593	0.5000	0.4869	
2	4.897	4.897	0.000	2430190	0.5000	0.5602	
		Average of Peak Amounts =				0.5579	
						RPD = 12.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00035 Amount Added: 1.00 Units: mL

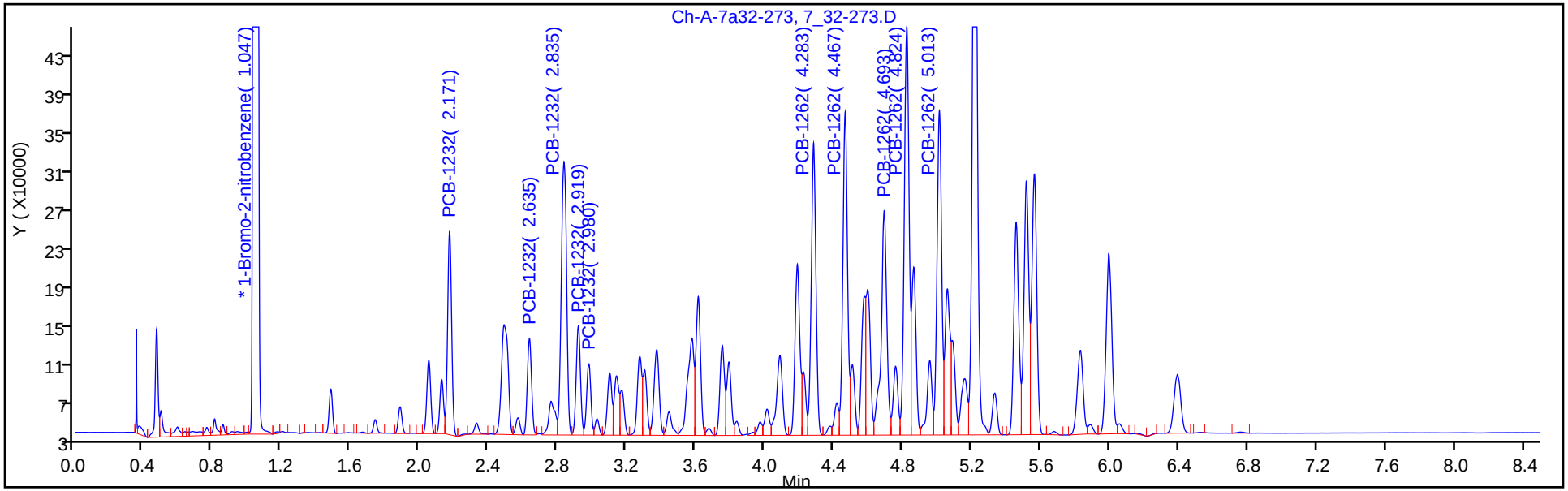
Report Date: 06-Dec-2018 09:20:08 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

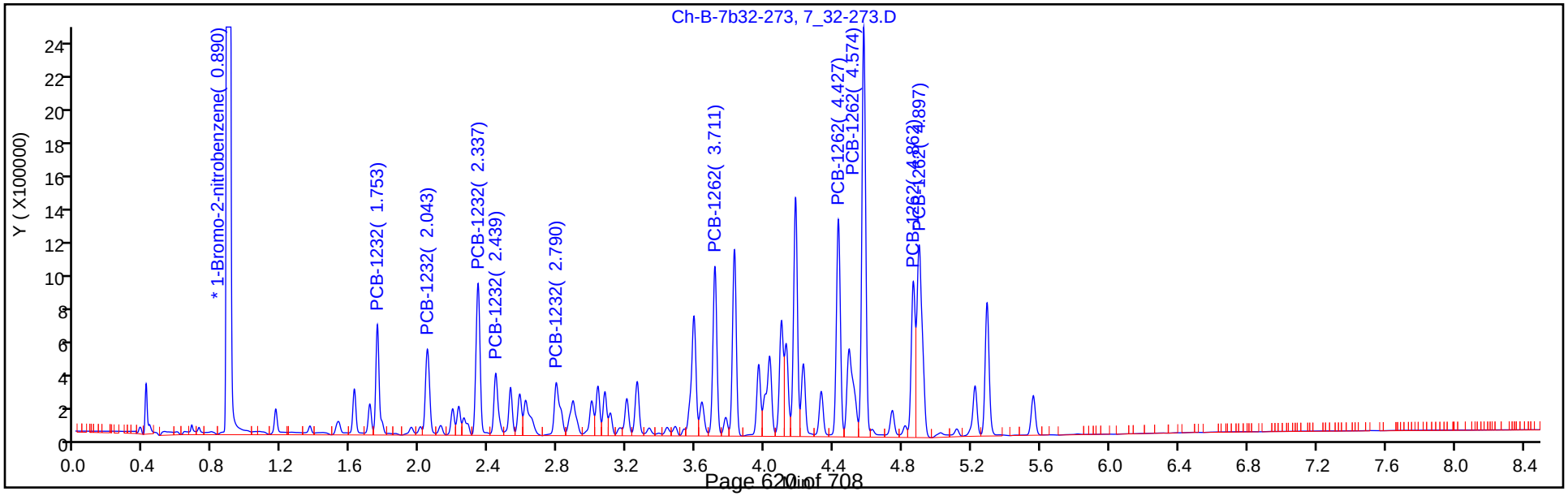
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-273.D

Injection Date:	05-Dec-2018 13:03:47	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/8 Calibration Date: 12/05/2018 13:19

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 19:45

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 20:17

Lab File ID: 7_32-274.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0887	0.0897		0.506	0.500	1.2	20.0
PCB-1242 Peak 2	Lin1		0.0338		0.574	0.500	14.8	20.0
PCB-1242 Peak 3	Lin1		0.0250		0.509	0.500	1.9	20.0
PCB-1242 Peak 4	Lin1		0.0307		0.595	0.500	19.1	20.0
PCB-1242 Peak 5	Ave	0.0422	0.0434		0.513	0.500	2.7	20.0
PCB-1268 Peak 1	Lin1		0.1233		0.439	0.500	-12.2	20.0
PCB-1268 Peak 2	Ave	0.1454	0.1112		0.382	0.500	-23.5*	20.0
PCB-1268 Peak 3	Lin1		0.0944		0.411	0.500	-17.7	20.0
PCB-1268 Peak 4	Ave	0.0490	0.0383		0.391	0.500	-21.8*	20.0
PCB-1268 Peak 5	Ave	0.3996	0.3125		0.391	0.500	-21.8*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/8 Calibration Date: 12/05/2018 13:19

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 19:45

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 20:17

Lab File ID: 7_32-274.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.84	2.81	2.87
PCB-1242 Peak 2	2.92	2.89	2.95
PCB-1242 Peak 3	3.28	3.25	3.31
PCB-1242 Peak 4	3.37	3.34	3.40
PCB-1242 Peak 5	3.58	3.55	3.61
PCB-1268 Peak 1	5.52	5.49	5.55
PCB-1268 Peak 2	5.56	5.53	5.59
PCB-1268 Peak 3	5.82	5.79	5.85
PCB-1268 Peak 4	6.00	5.97	6.03
PCB-1268 Peak 5	6.39	6.36	6.42

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-274.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 05-Dec-2018 13:19:43 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:21:39 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:21:39

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	12465167	0.5000	0.5000	
2	0.892	0.892	0.000	37097722	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	2.836	2.836	0.000	1118556	0.5000	0.5061	M
1	2.921	2.921	0.000	420901	0.5000	0.5740	M
1	3.275	3.275	0.000	311998	0.5000	0.5094	M
1	3.373	3.373	0.000	382271	0.5000	0.5954	M
1	3.578	3.578	0.000	540748	0.5000	0.5134	M
		Average of Peak Amounts =				0.5396	
2	2.043	2.043	0.000	1413174	0.5000	0.5702	
2	2.337	2.337	0.000	2848932	0.5000	0.6544	
2	2.440	2.440	0.000	1133689	0.5000	0.4933	
2	2.579	2.579	0.000	756968	0.5000	0.6727	
2	2.792	2.792	0.000	1383642	0.5000	0.5734	
		Average of Peak Amounts =				0.5928	
						RPD = 9.38	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.520	5.520	0.000	1536468	0.5000	0.4388	
1	5.563	5.563	0.000	1385815	0.5000	0.3823	
1	5.817	5.817	0.000	1176203	0.5000	0.4114	
1	5.998	5.998	0.000	477616	0.5000	0.3908	
1	6.393	6.393	0.000	3894910	0.5000	0.3910	
		Average of Peak Amounts =				0.4029	
2	4.861	4.861	0.000	4033967	0.5000	0.5529	
2	4.899	4.899	0.000	4020203	0.5000	0.4732	
2	5.195	5.195	0.000	802621	0.5000	0.4420	
2	5.290	5.290	0.000	1369906	0.5000	0.4806	
2	5.559	5.559	0.000	10306301	0.5000	0.4669	
		Average of Peak Amounts =				0.4831	
						RPD = 18.12	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00035 Amount Added: 1.00 Units: mL

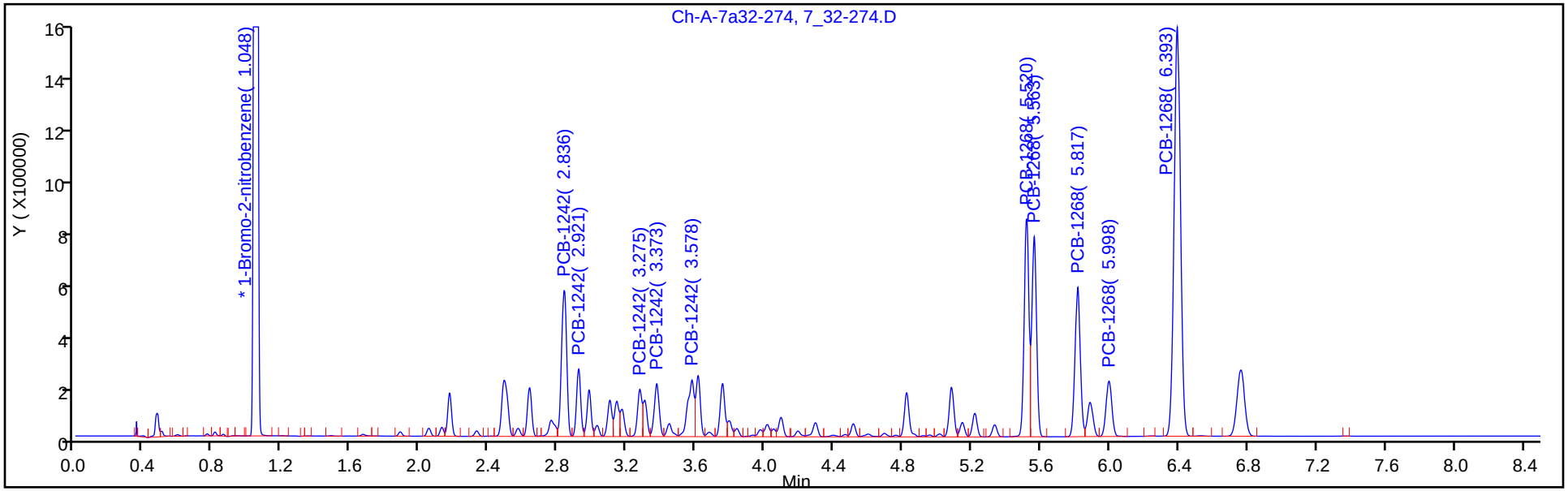
Report Date: 06-Dec-2018 09:21:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

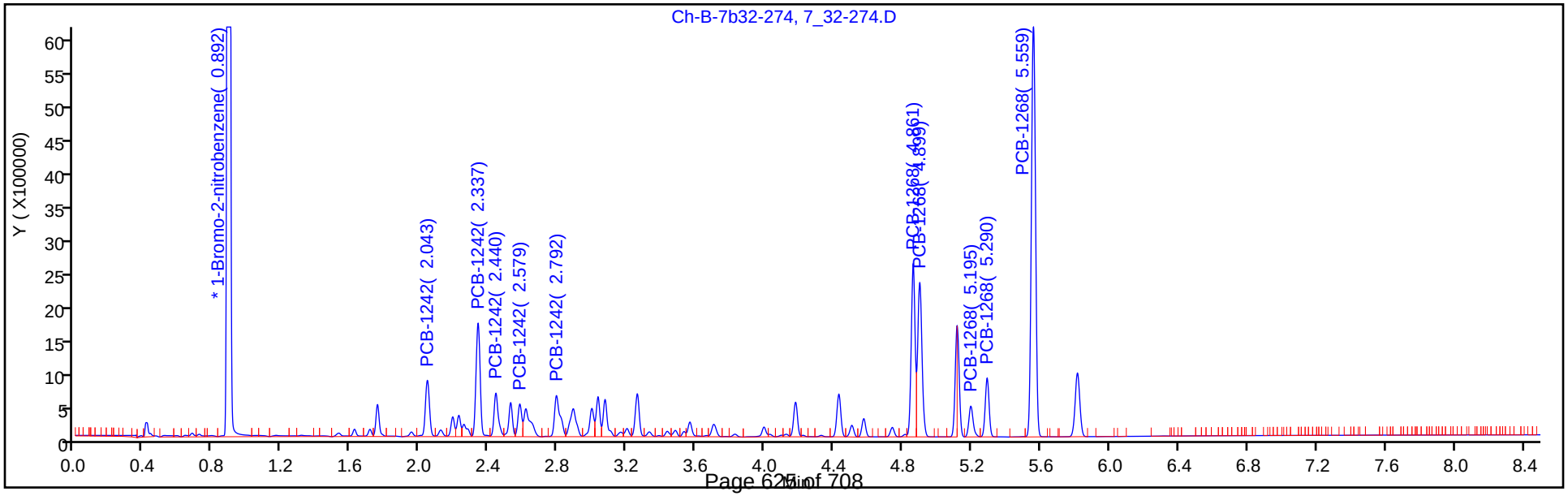
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-274.D

Injection Date:	05-Dec-2018 13:19:43	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 06-Dec-2018 09:21:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-274.D

Injection Date: 05-Dec-2018 13:19:43 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

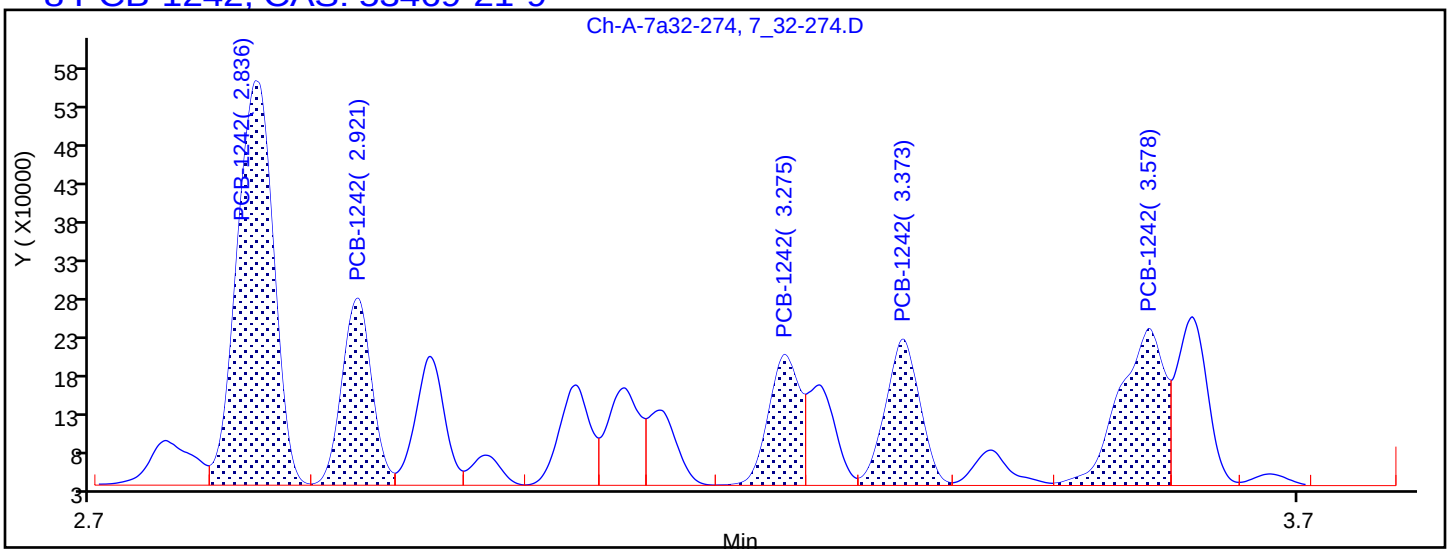
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

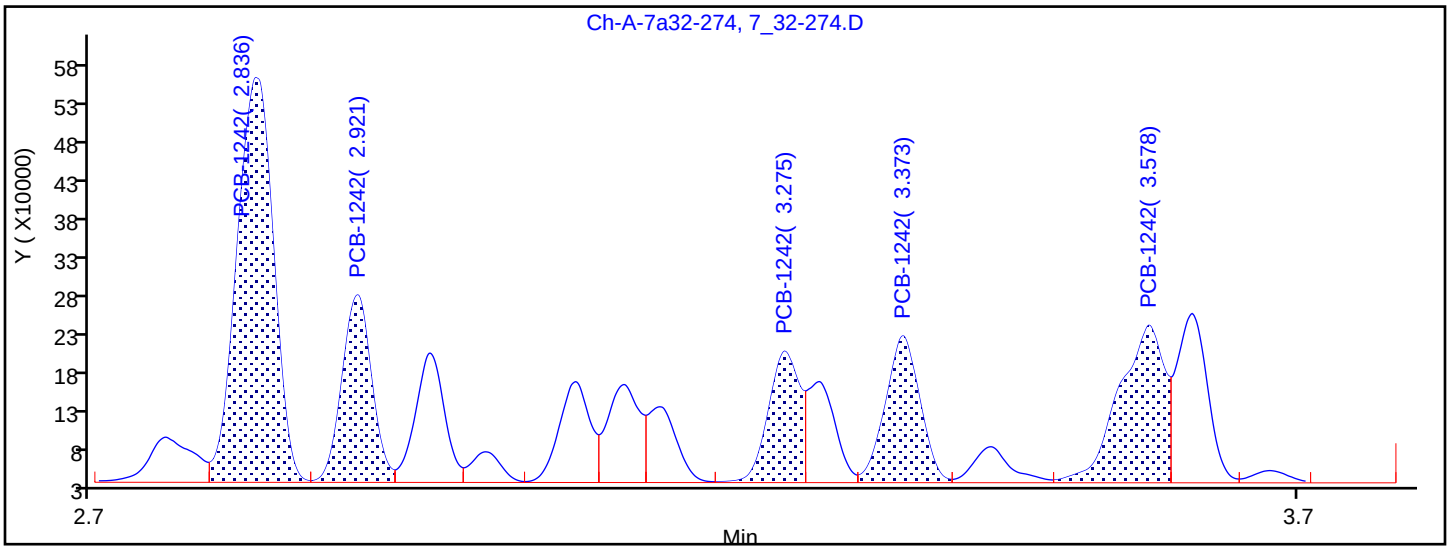
Column: Detector Ch-A-7A136

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

2.836	Response = 1115157
2.921	Response = 418020
3.275	Response = 308650
3.373	Response = 378677
3.578	Response = 536106



Manual Integration Results

2.836	Response = 1118556	M
2.921	Response = 420901	M
3.275	Response = 311998	M
3.373	Response = 382271	M
3.578	Response = 540748	M

Reviewer: thongjanw, 06-Dec-2018 09:21:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/8 Calibration Date: 12/05/2018 13:19

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 19:45

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 20:17

Lab File ID: 7_32-274.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0381		0.570	0.500	14.0	20.0
PCB-1242 Peak 2	Lin1		0.0768		0.654	0.500	30.9*	20.0
PCB-1242 Peak 3	Ave	0.0310	0.0306		0.493	0.500	-1.3	20.0
PCB-1242 Peak 4	Lin1		0.0204		0.673	0.500	34.5*	20.0
PCB-1242 Peak 5	Lin1		0.0373		0.573	0.500	14.7	20.0
PCB-1268 Peak 1	Lin1		0.1087		0.553	0.500	10.6	20.0
PCB-1268 Peak 2	Ave	0.1145	0.1084		0.473	0.500	-5.4	20.0
PCB-1268 Peak 3	Lin1		0.0216		0.442	0.500	-11.6	20.0
PCB-1268 Peak 4	Lin1		0.0369		0.481	0.500	-3.9	20.0
PCB-1268 Peak 5	Ave	0.2975	0.2778		0.467	0.500	-6.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/8 Calibration Date: 12/05/2018 13:19

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 19:45

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 20:17

Lab File ID: 7_32-274.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.04	2.01	2.07
PCB-1242 Peak 2	2.34	2.31	2.37
PCB-1242 Peak 3	2.44	2.41	2.47
PCB-1242 Peak 4	2.58	2.55	2.61
PCB-1242 Peak 5	2.79	2.76	2.82
PCB-1268 Peak 1	4.86	4.83	4.89
PCB-1268 Peak 2	4.90	4.87	4.93
PCB-1268 Peak 3	5.20	5.17	5.23
PCB-1268 Peak 4	5.29	5.26	5.32
PCB-1268 Peak 5	5.56	5.53	5.59

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-274.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 05-Dec-2018 13:19:43 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:21:39 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:21:39

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	12465167	0.5000	0.5000	
2	0.892	0.892	0.000	37097722	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	2.836	2.836	0.000	1118556	0.5000	0.5061	M
1	2.921	2.921	0.000	420901	0.5000	0.5740	M
1	3.275	3.275	0.000	311998	0.5000	0.5094	M
1	3.373	3.373	0.000	382271	0.5000	0.5954	M
1	3.578	3.578	0.000	540748	0.5000	0.5134	M
		Average of Peak Amounts =				0.5396	
2	2.043	2.043	0.000	1413174	0.5000	0.5702	
2	2.337	2.337	0.000	2848932	0.5000	0.6544	
2	2.440	2.440	0.000	1133689	0.5000	0.4933	
2	2.579	2.579	0.000	756968	0.5000	0.6727	
2	2.792	2.792	0.000	1383642	0.5000	0.5734	
		Average of Peak Amounts =				0.5928	
						RPD = 9.38	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.520	5.520	0.000	1536468	0.5000	0.4388	
1	5.563	5.563	0.000	1385815	0.5000	0.3823	
1	5.817	5.817	0.000	1176203	0.5000	0.4114	
1	5.998	5.998	0.000	477616	0.5000	0.3908	
1	6.393	6.393	0.000	3894910	0.5000	0.3910	
		Average of Peak Amounts =				0.4029	
2	4.861	4.861	0.000	4033967	0.5000	0.5529	
2	4.899	4.899	0.000	4020203	0.5000	0.4732	
2	5.195	5.195	0.000	802621	0.5000	0.4420	
2	5.290	5.290	0.000	1369906	0.5000	0.4806	
2	5.559	5.559	0.000	10306301	0.5000	0.4669	
		Average of Peak Amounts =				0.4831	
						RPD = 18.12	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00035 Amount Added: 1.00 Units: mL

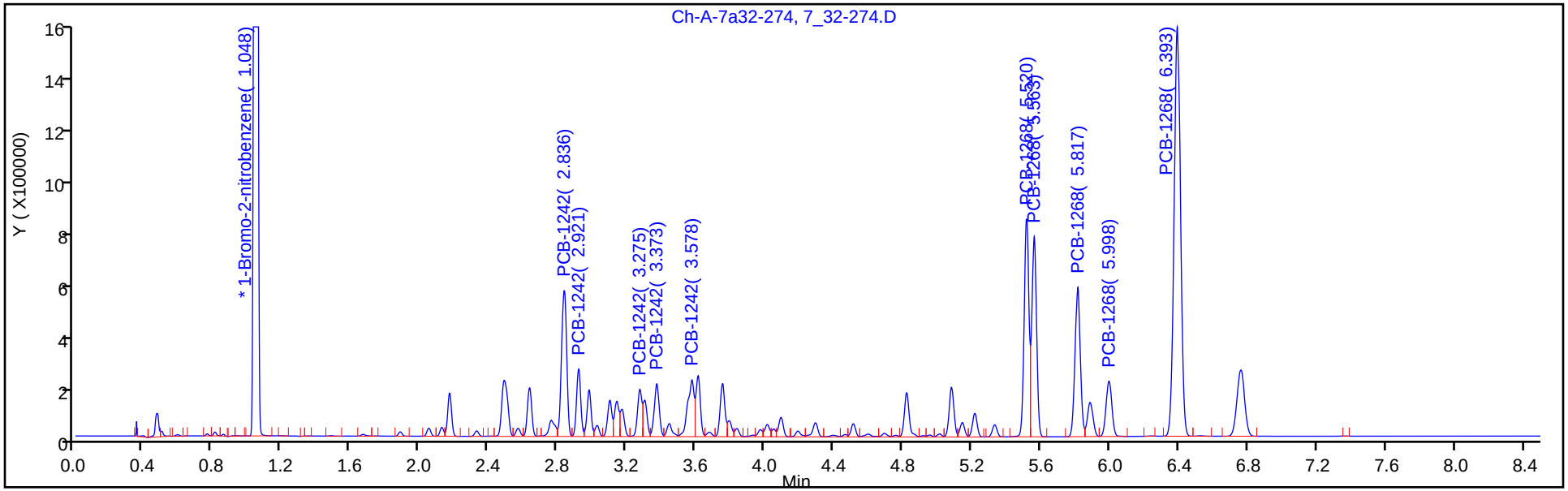
Report Date: 06-Dec-2018 09:21:40 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

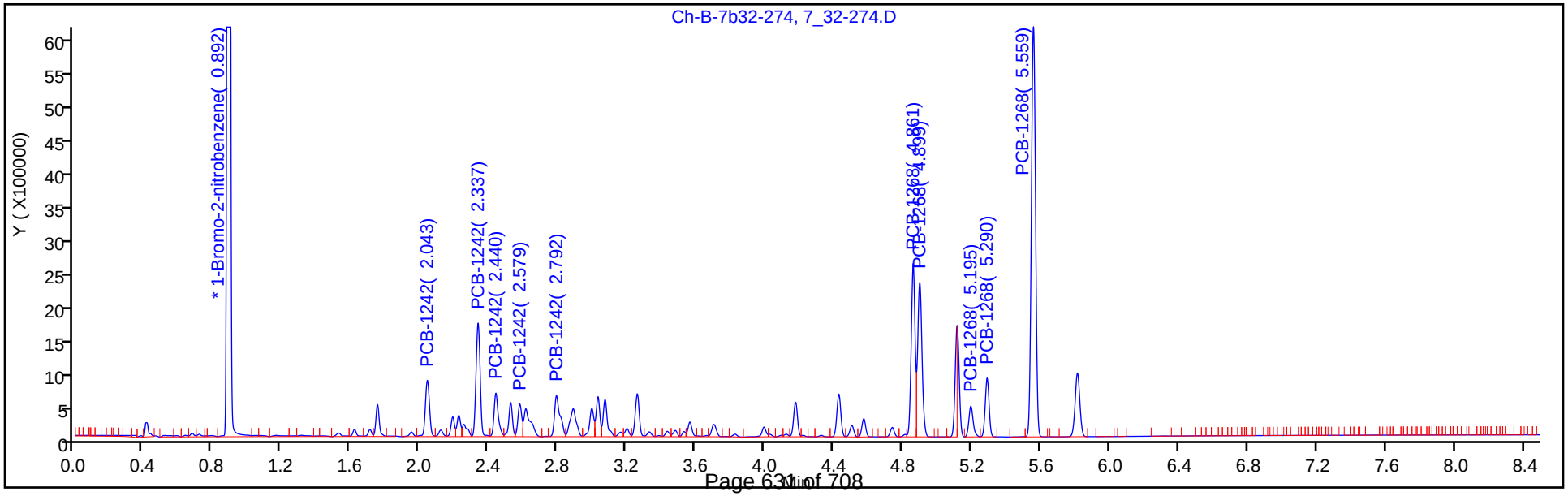
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-274.D

Injection Date:	05-Dec-2018 13:19:43	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/9 Calibration Date: 12/05/2018 13:35

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 20:48

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 21:20

Lab File ID: 7_32-275.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0579		0.580	0.500	16.0	20.0
PCB-1248 Peak 2	Ave	0.0435	0.0462		0.531	0.500	6.2	20.0
PCB-1248 Peak 3	Ave	0.0612	0.0723		0.591	0.500	18.2	20.0
PCB-1248 Peak 4	Ave	0.0422	0.0564		0.668	0.500	33.6*	20.0
PCB-1248 Peak 5	Ave	0.0453	0.0458		0.505	0.500	1.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/9 Calibration Date: 12/05/2018 13:35

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 20:48

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 21:20

Lab File ID: 7_32-275.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.28	3.25	3.31
PCB-1248 Peak 2	3.37	3.34	3.40
PCB-1248 Peak 3	3.58	3.55	3.61
PCB-1248 Peak 4	3.61	3.58	3.64
PCB-1248 Peak 5	3.75	3.72	3.78

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-275.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 05-Dec-2018 13:35:47 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:22:40 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:22:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.047	0.000	11816006	0.5000	0.5000	
2	0.889	0.889	0.000	35025191	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.275	3.275	0.000	683537	0.5000	0.5799	
1	3.374	3.374	0.000	546202	0.5000	0.5308	
1	3.578	3.578	0.000	854552	0.5000	0.5911	
1	3.613	3.613	0.000	666807	0.5000	0.6680	
1	3.753	3.753	0.000	541150	0.5000	0.5053	
		Average of Peak Amounts =				0.5750	
2	2.040	2.040	0.000	735487	0.5000	0.5912	
2	2.336	2.336	0.000	1786962	0.5000	0.6475	
2	2.888	2.888	0.000	1507798	0.5000	0.5282	
2	3.033	3.033	0.000	1547671	0.5000	0.6336	
2	3.259	3.259	0.000	1636939	0.5000	0.5176	
		Average of Peak Amounts =				0.5836	
						RPD = 1.49	

Reagents:

1248w/IS@ 0.5_00032 Amount Added: 1.00 Units: mL

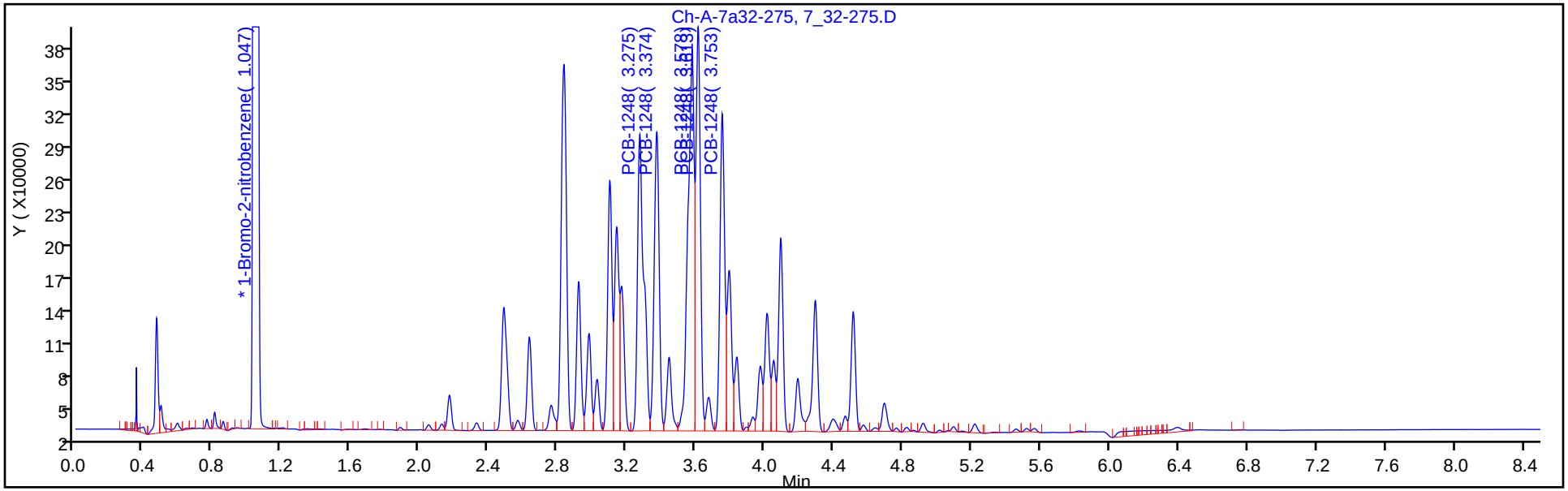
Report Date: 06-Dec-2018 09:22:41 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

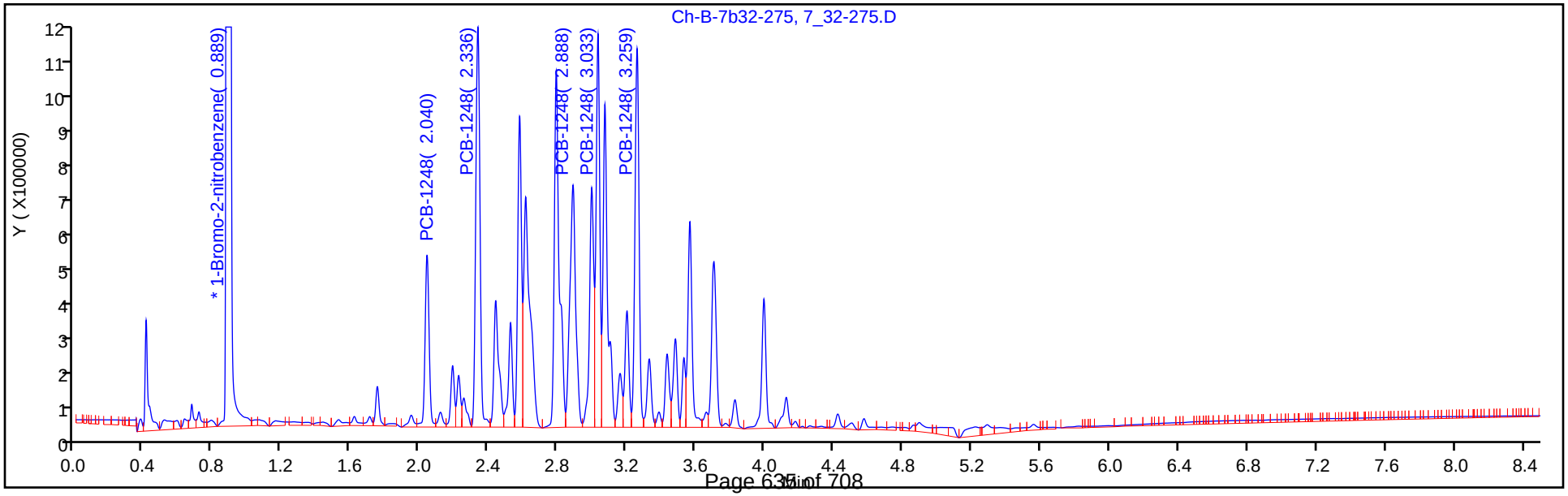
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-275.D

Injection Date:	05-Dec-2018 13:35:47	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/9 Calibration Date: 12/05/2018 13:35

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 20:48

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 21:20

Lab File ID: 7_32-275.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0210		0.591	0.500	18.2	20.0
PCB-1248 Peak 2	Lin1		0.0510		0.648	0.500	29.5*	20.0
PCB-1248 Peak 3	Ave	0.0407	0.0431		0.528	0.500	5.6	20.0
PCB-1248 Peak 4	Lin1		0.0442		0.634	0.500	26.7*	20.0
PCB-1248 Peak 5	Ave	0.0451	0.0467		0.518	0.500	3.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/9 Calibration Date: 12/05/2018 13:35

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 20:48

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 21:20

Lab File ID: 7_32-275.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	2.04	2.01	2.07
PCB-1248 Peak 2	2.34	2.31	2.37
PCB-1248 Peak 3	2.89	2.86	2.92
PCB-1248 Peak 4	3.03	3.00	3.06
PCB-1248 Peak 5	3.26	3.23	3.29

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-275.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 05-Dec-2018 13:35:47 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:22:40 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:22:40

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.047	0.000	11816006	0.5000	0.5000	
2	0.889	0.889	0.000	35025191	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.275	3.275	0.000	683537	0.5000	0.5799	
1	3.374	3.374	0.000	546202	0.5000	0.5308	
1	3.578	3.578	0.000	854552	0.5000	0.5911	
1	3.613	3.613	0.000	666807	0.5000	0.6680	
1	3.753	3.753	0.000	541150	0.5000	0.5053	
		Average of Peak Amounts =				0.5750	
2	2.040	2.040	0.000	735487	0.5000	0.5912	
2	2.336	2.336	0.000	1786962	0.5000	0.6475	
2	2.888	2.888	0.000	1507798	0.5000	0.5282	
2	3.033	3.033	0.000	1547671	0.5000	0.6336	
2	3.259	3.259	0.000	1636939	0.5000	0.5176	
		Average of Peak Amounts =				0.5836	
						RPD = 1.49	

Reagents:

1248w/IS@ 0.5_00032 Amount Added: 1.00 Units: mL

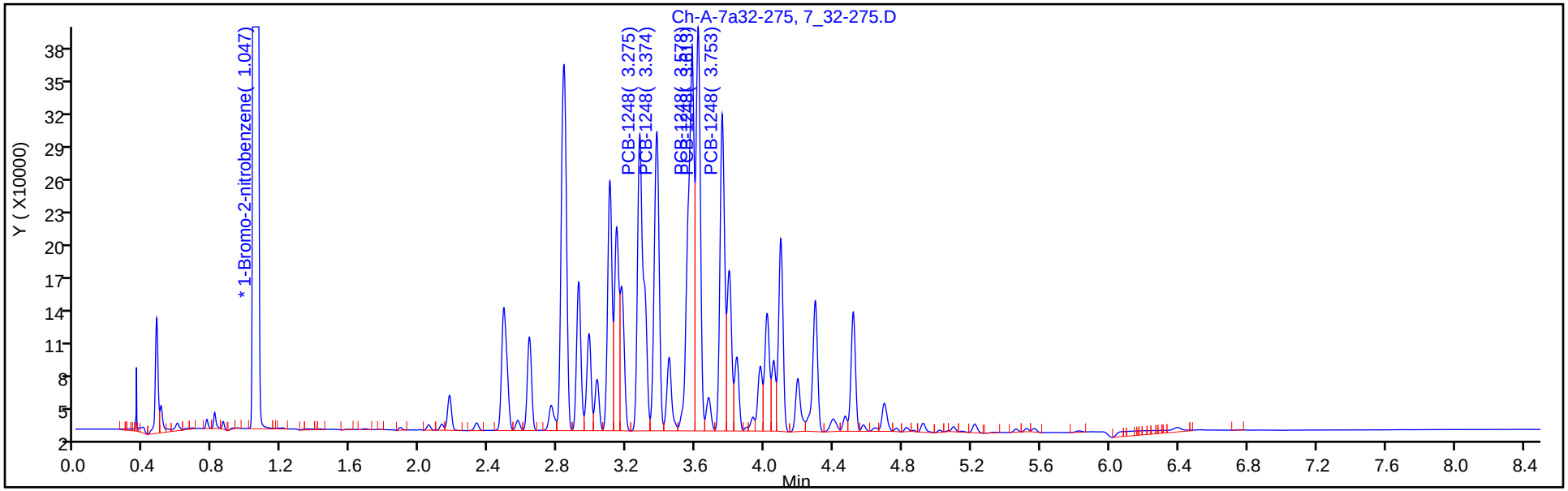
Report Date: 06-Dec-2018 09:22:41 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

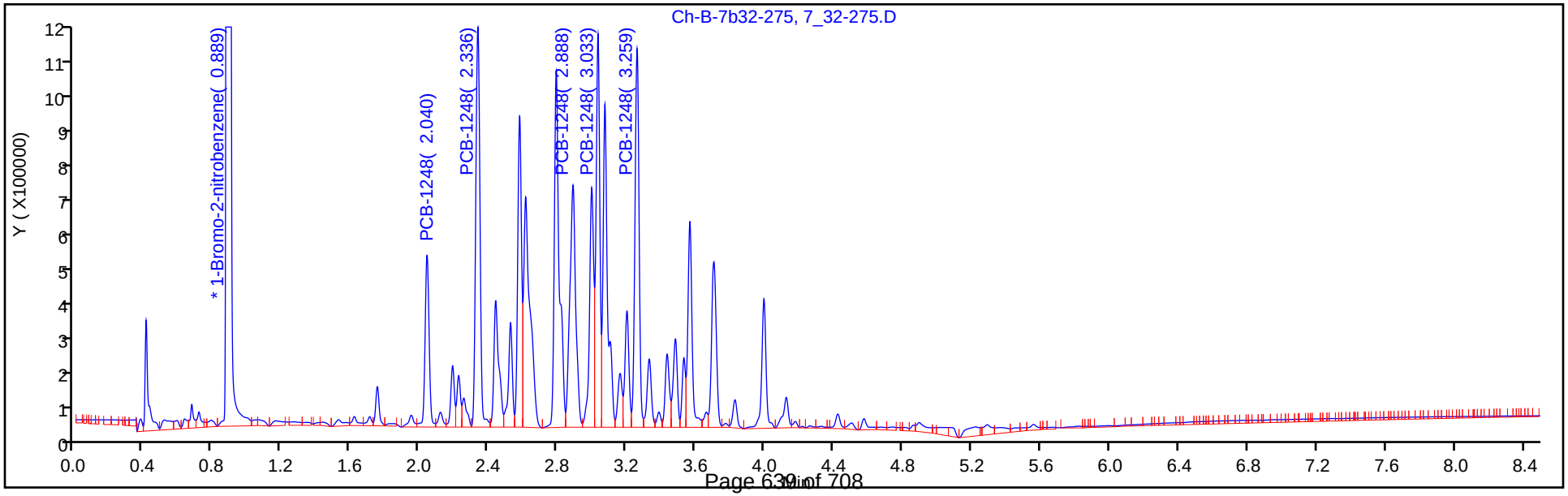
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-275.D

Injection Date:	05-Dec-2018 13:35:47	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/31 Calibration Date: 12/06/2018 00:25

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 14:26

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 16:02

Lab File ID: 7_32-297.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.1064	0.1065		0.501	0.500	0.1	20.0
PCB-1016 Peak 2	Lin1		0.0399		0.546	0.500	9.2	20.0
PCB-1016 Peak 3	Ave	0.0282	0.0273		0.484	0.500	-3.2	20.0
PCB-1016 Peak 4	Lin1		0.0232		0.587	0.500	17.4	20.0
PCB-1016 Peak 5	Ave	0.0363	0.0349		0.481	0.500	-3.8	20.0
PCB-1260 Peak 1	Ave	0.0646	0.0568		0.439	0.500	-12.2	20.0
PCB-1260 Peak 2	Ave	0.0724	0.0658		0.454	0.500	-9.1	20.0
PCB-1260 Peak 3	Lin1		0.0837		0.506	0.500	1.1	20.0
PCB-1260 Peak 4	Lin1		0.0402		0.549	0.500	9.9	20.0
PCB-1260 Peak 5	Lin1		0.1011		0.585	0.500	17.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/31 Calibration Date: 12/06/2018 00:25

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 14:26

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/07/2018 16:02

Lab File ID: 7_32-297.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.84	2.81	2.87
PCB-1016 Peak 2	2.92	2.89	2.95
PCB-1016 Peak 3	2.98	2.95	3.01
PCB-1016 Peak 4	3.10	3.07	3.13
PCB-1016 Peak 5	3.38	3.34	3.40
PCB-1260 Peak 1	4.29	4.25	4.31
PCB-1260 Peak 2	4.47	4.44	4.50
PCB-1260 Peak 3	4.70	4.66	4.72
PCB-1260 Peak 4	5.01	4.98	5.04
PCB-1260 Peak 5	5.22	5.19	5.25

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 06-Dec-2018 00:25:02 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 12:52:13 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0301

First Level Reviewer: thongjanw Date: 06-Dec-2018 12:52:13

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.048	-0.001	12440243	0.5000	0.5000	
2	0.890	0.892	-0.002	36863439	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	476228	0.0125	0.0157	M
2	1.408	1.408	0.000	1308658	0.0125	0.0147	
						RPD = 6.11	
9 PCB-1016							M
1	2.837	2.835	0.002	1325068	0.5000	0.5006	M
1	2.921	2.919	0.002	496749	0.5000	0.5462	M
1	2.981	2.981	0.000	339123	0.5000	0.4838	M
1	3.101	3.102	-0.001	288126	0.5000	0.5868	M
1	3.375	3.373	0.002	433797	0.5000	0.4809	M
		Average of Peak Amounts =				0.5197	
2	2.337	2.337	0.000	3511925	0.5000	0.5464	
2	2.440	2.439	0.001	1356452	0.5000	0.4607	
2	2.526	2.525	0.001	914055	0.5000	0.5914	
2	2.791	2.790	0.001	1596055	0.5000	0.4677	
2	2.889	2.888	0.001	1214646	0.5000	0.5509	
		Average of Peak Amounts =				0.5234	
						RPD = 0.72	
2 1260 Res 1							M
1	4.089	4.083	0.000	242362	NC	NC	M
2	4.098	4.091	0.000	1181386	NC	NC	
4 1260 Res 2							M
1	4.191	4.183	0.002	334972	NC	NC	M
2	4.124	4.117	-0.001	1895845	NC	NC	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.285	4.283	0.002	706143	0.5000	0.4391	M
1	4.468	4.467	0.001	818506	0.5000	0.4543	M
1	4.696	4.694	0.002	1041474	0.5000	0.5057	M
1	5.013	5.014	-0.001	500541	0.5000	0.5494	M
1	5.220	5.218	0.002	1257337	0.5000	0.5851	M
		Average of Peak Amounts =				0.5067	
2	3.712	3.711	0.001	1903292	0.5000	0.4791	
2	4.124	4.125	-0.001	1895845	0.5000	0.4475	
2	4.427	4.427	0.000	1571443	0.5000	0.5245	
2	4.573	4.575	-0.002	3354494	0.5000	0.5640	
2	4.892	4.893	-0.001	2185507	0.5000	0.5400	
		Average of Peak Amounts =				0.5110	
						RPD = 0.84	
3 1260 Res 3							M
1	4.468	4.460	0.002	818506	NC	NC	M
2	4.427	4.418	0.000	1571443	NC	NC	
$ 15 DCB Decachlorobiphenyl							
1	6.762	6.764	-0.002	257686	0.0125	0.0135	
2	5.813	5.813	-0.001	579479	0.0125	0.0161	
						RPD = 17.61	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00053 Amount Added: 1.00 Units: mL

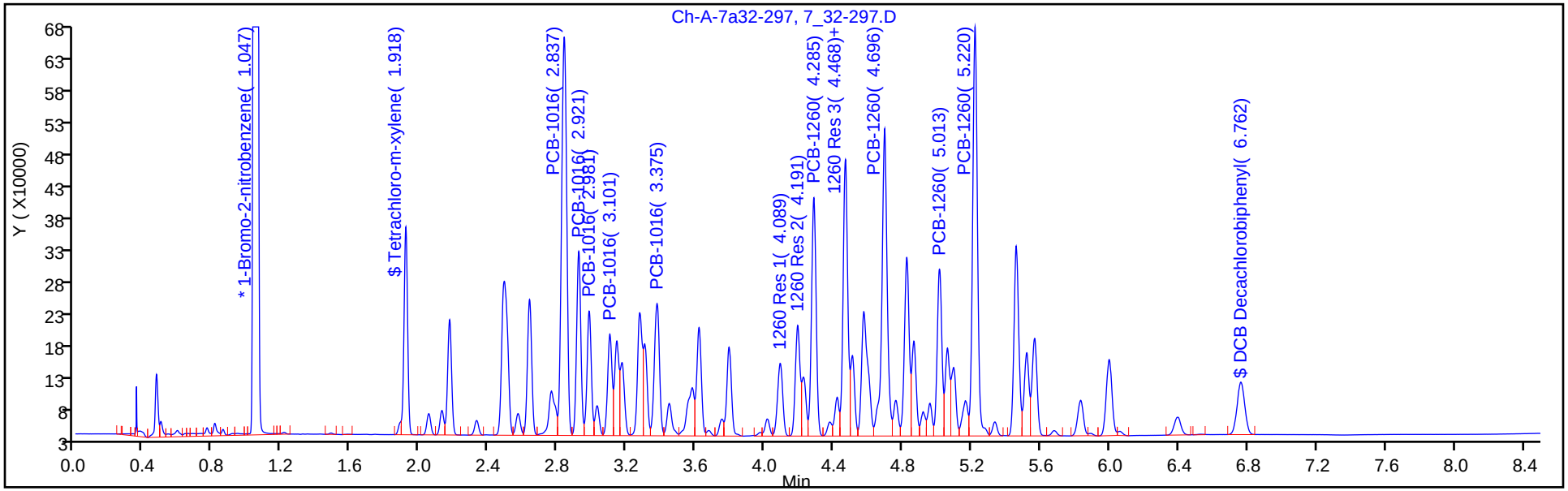
Report Date: 06-Dec-2018 12:52:14 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

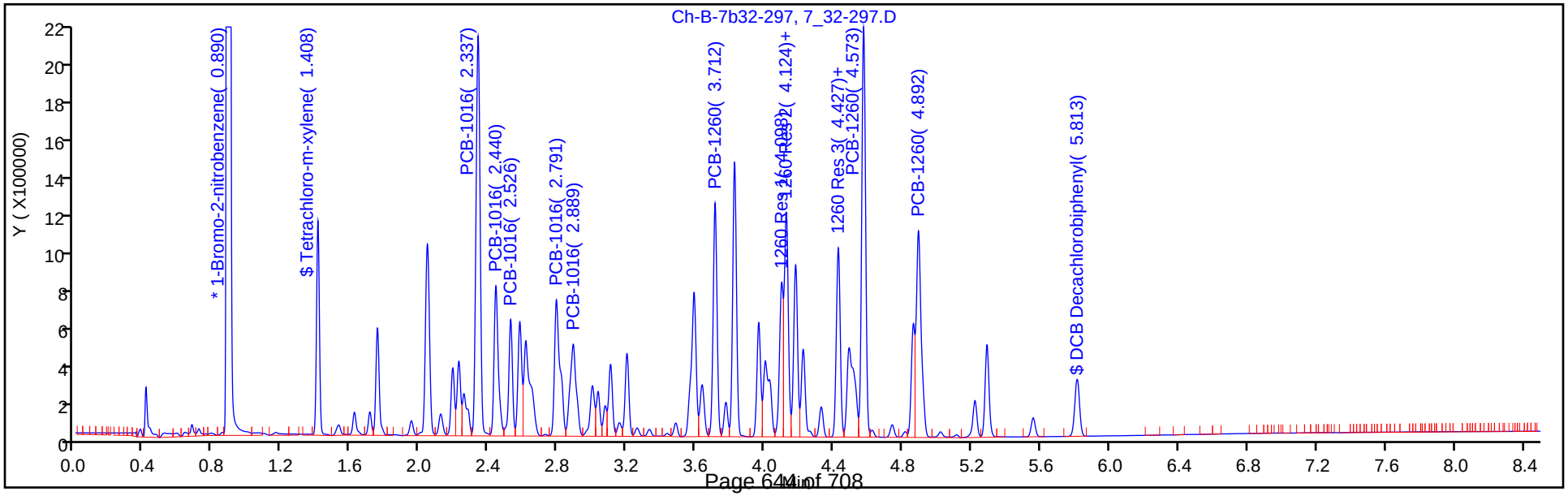
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D

Injection Date:	06-Dec-2018 00:25:02	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 06-Dec-2018 12:52:16 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D

Injection Date: 06-Dec-2018 00:25:02 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

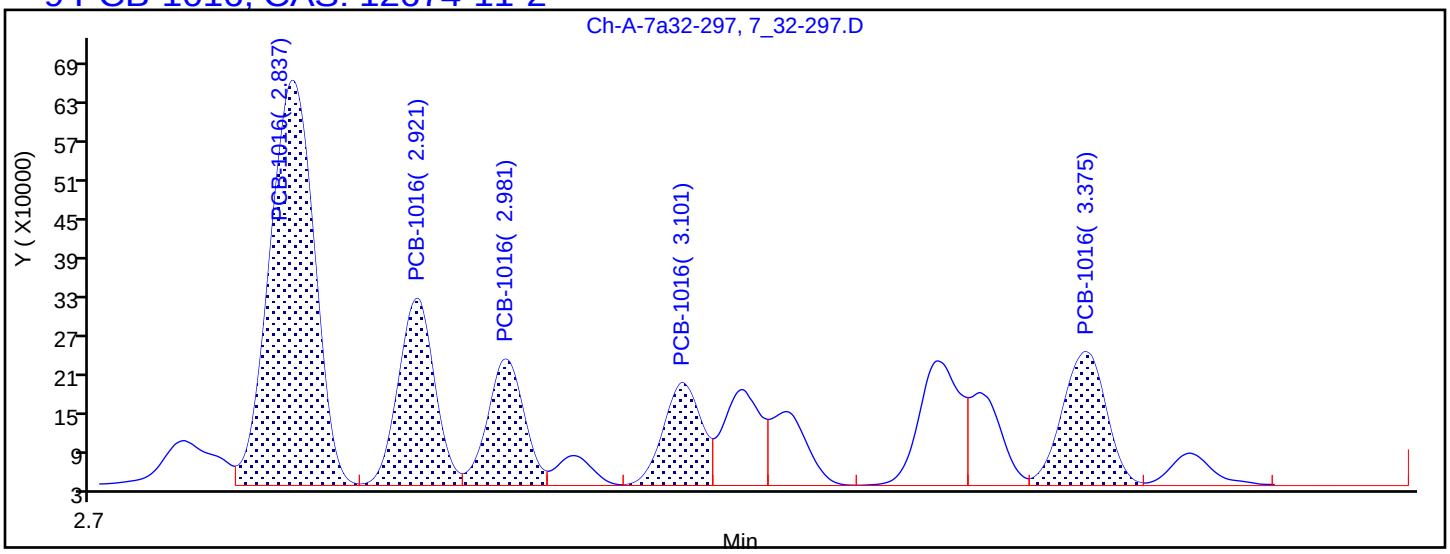
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 31

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

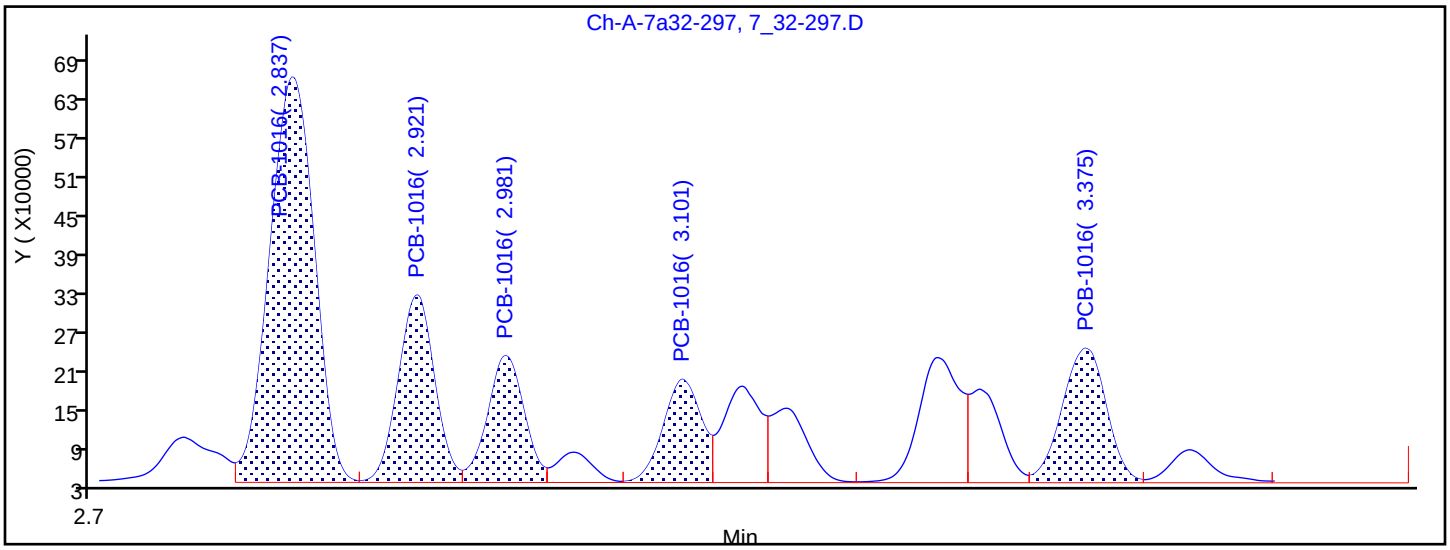
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.837	Response = 1322391
2.921	Response = 494307
2.981	Response = 336969
3.101	Response = 285576
3.375	Response = 429668



Manual Integration Results

2.837	Response = 1325068	M
2.921	Response = 496749	M
2.981	Response = 339123	M
3.101	Response = 288126	M
3.375	Response = 433797	M

Reviewer: thongjanw, 06-Dec-2018 12:50:51

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 06-Dec-2018 12:52:16 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D

Injection Date: 06-Dec-2018 00:25:02 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

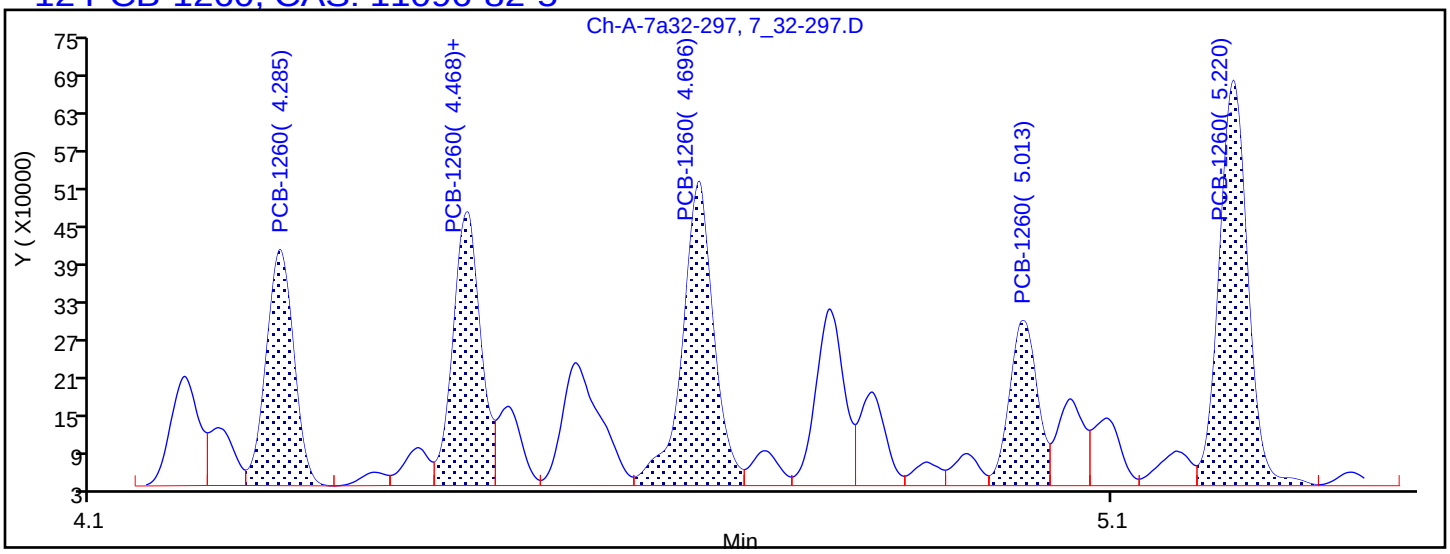
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 31

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

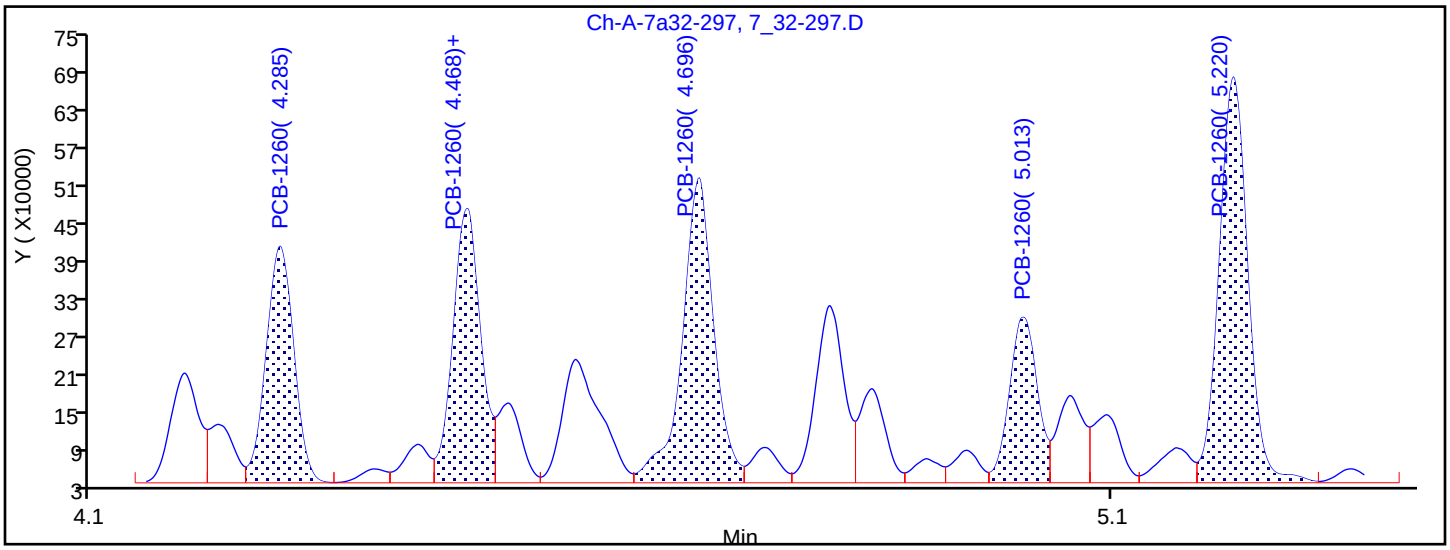
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.285	Response = 702365
4.468	Response = 815164
4.696	Response = 1036112
5.013	Response = 498125
5.220	Response = 1253326



Manual Integration Results

4.285	Response = 706143	M
4.468	Response = 818506	M
4.696	Response = 1041474	M
5.013	Response = 500541	M
5.220	Response = 1257337	M

Reviewer: thongjanw, 06-Dec-2018 12:50:53

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/31 Calibration Date: 12/06/2018 00:25

Instrument ID: HP6890-7 Calib Start Date: 09/17/2018 15:22

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 09/17/2018 16:42

Lab File ID: 7_32-297.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Lin1		1.531		0.0157	0.0125	25.4*	20.0
DCB Decachlorobiphenyl	Lin1		0.8286		0.0135	0.0125	8.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/31 Calibration Date: 12/06/2018 00:25

Instrument ID: HP6890-7 Calib Start Date: 09/17/2018 15:22

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 09/17/2018 16:42

Lab File ID: 7_32-297.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.92	1.89	1.95
DCB Decachlorobiphenyl	6.76	6.73	6.79

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 06-Dec-2018 00:25:02 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 12:52:13 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0301

First Level Reviewer: thongjanw Date: 06-Dec-2018 12:52:13

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.048	-0.001	12440243	0.5000	0.5000	
2	0.890	0.892	-0.002	36863439	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	476228	0.0125	0.0157	M
2	1.408	1.408	0.000	1308658	0.0125	0.0147	
						RPD = 6.11	
9 PCB-1016							M
1	2.837	2.835	0.002	1325068	0.5000	0.5006	M
1	2.921	2.919	0.002	496749	0.5000	0.5462	M
1	2.981	2.981	0.000	339123	0.5000	0.4838	M
1	3.101	3.102	-0.001	288126	0.5000	0.5868	M
1	3.375	3.373	0.002	433797	0.5000	0.4809	M
		Average of Peak Amounts =				0.5197	
2	2.337	2.337	0.000	3511925	0.5000	0.5464	
2	2.440	2.439	0.001	1356452	0.5000	0.4607	
2	2.526	2.525	0.001	914055	0.5000	0.5914	
2	2.791	2.790	0.001	1596055	0.5000	0.4677	
2	2.889	2.888	0.001	1214646	0.5000	0.5509	
		Average of Peak Amounts =				0.5234	
						RPD = 0.72	
2 1260 Res 1							M
1	4.089	4.083	0.000	242362	NC	NC	M
2	4.098	4.091	0.000	1181386	NC	NC	
4 1260 Res 2							M
1	4.191	4.183	0.002	334972	NC	NC	M
2	4.124	4.117	-0.001	1895845	NC	NC	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.285	4.283	0.002	706143	0.5000	0.4391	M
1	4.468	4.467	0.001	818506	0.5000	0.4543	M
1	4.696	4.694	0.002	1041474	0.5000	0.5057	M
1	5.013	5.014	-0.001	500541	0.5000	0.5494	M
1	5.220	5.218	0.002	1257337	0.5000	0.5851	M
		Average of Peak Amounts =				0.5067	
2	3.712	3.711	0.001	1903292	0.5000	0.4791	
2	4.124	4.125	-0.001	1895845	0.5000	0.4475	
2	4.427	4.427	0.000	1571443	0.5000	0.5245	
2	4.573	4.575	-0.002	3354494	0.5000	0.5640	
2	4.892	4.893	-0.001	2185507	0.5000	0.5400	
		Average of Peak Amounts =				0.5110	
						RPD = 0.84	
3 1260 Res 3							M
1	4.468	4.460	0.002	818506	NC	NC	M
2	4.427	4.418	0.000	1571443	NC	NC	
$ 15 DCB Decachlorobiphenyl							
1	6.762	6.764	-0.002	257686	0.0125	0.0135	
2	5.813	5.813	-0.001	579479	0.0125	0.0161	
						RPD = 17.61	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00053 Amount Added: 1.00 Units: mL

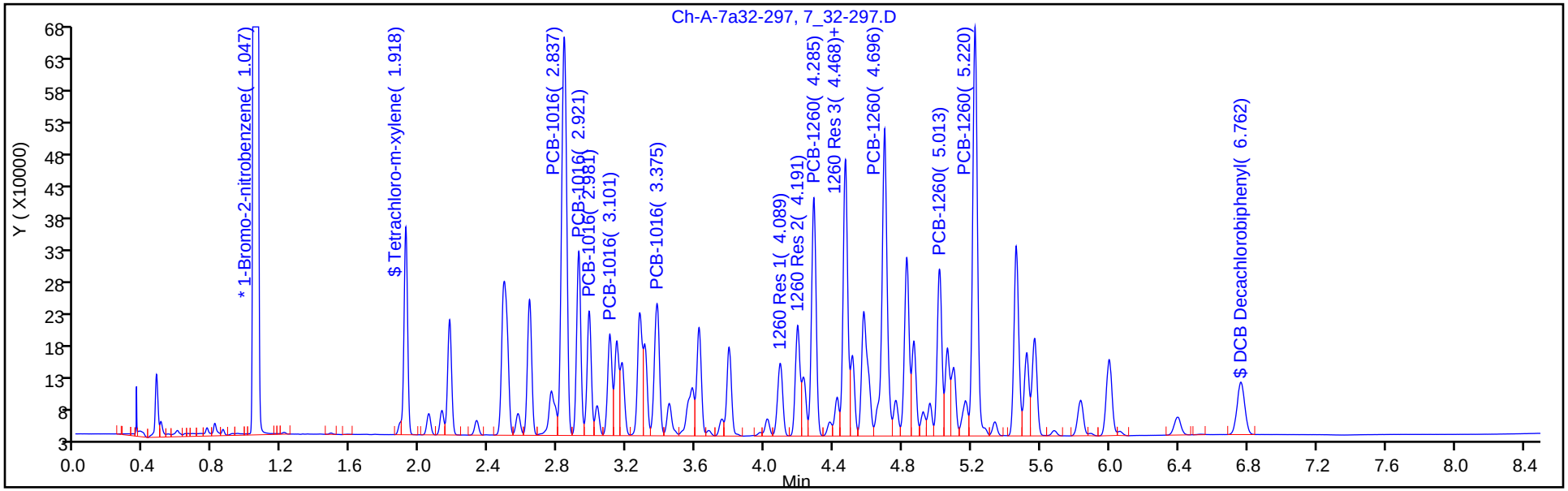
Report Date: 06-Dec-2018 12:52:14 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

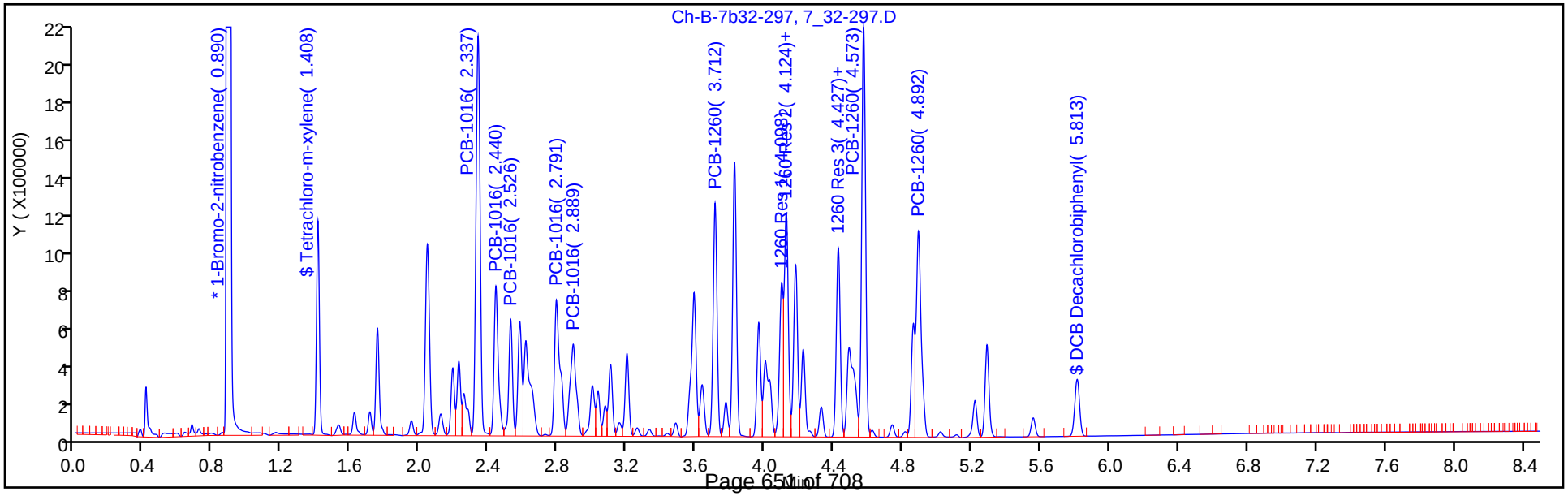
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D

Injection Date:	06-Dec-2018 00:25:02	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

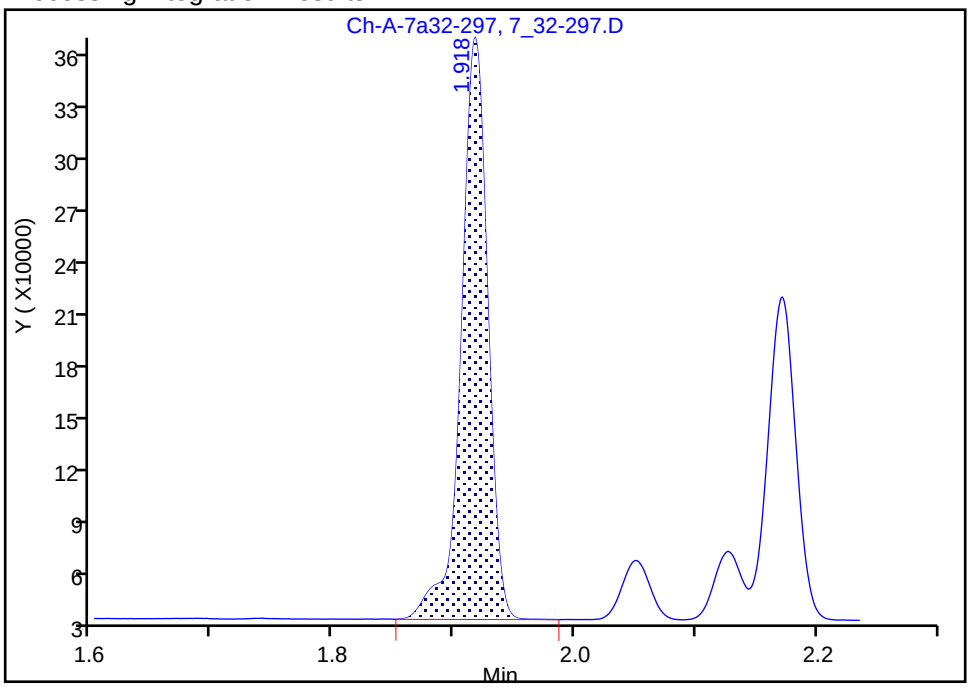
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D
Injection Date: 06-Dec-2018 00:25:02 Instrument ID: HP6890-7
Lims ID: CCV
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

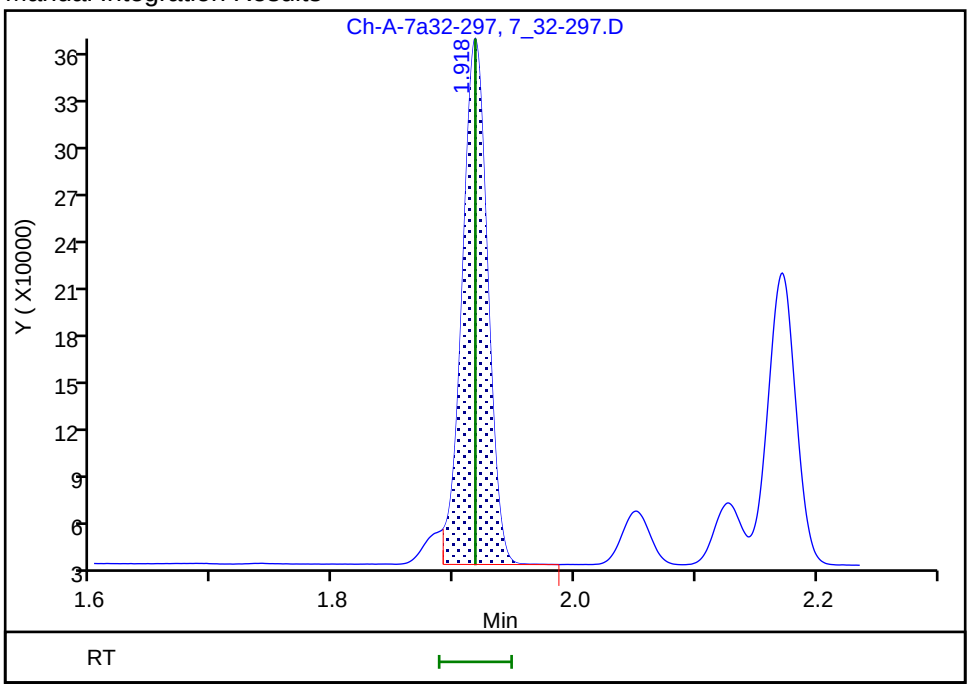
Processing Integration Results

RT: 1.92
Area: 498023
Amount: 0.016405
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 476228
Amount: 0.015671
Amount Units: ng/uL



Reviewer: thongjanw, 06-Dec-2018 12:51:59
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/31 Calibration Date: 12/06/2018 00:25

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 14:26

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 16:02

Lab File ID: 7_32-297.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0872	0.0953		0.546	0.500	9.3	20.0
PCB-1016 Peak 2	Ave	0.0399	0.0368		0.461	0.500	-7.9	20.0
PCB-1016 Peak 3	Lin1		0.0248		0.591	0.500	18.3	20.0
PCB-1016 Peak 4	Ave	0.0463	0.0433		0.468	0.500	-6.5	20.0
PCB-1016 Peak 5	Lin1		0.0330		0.551	0.500	10.2	20.0
PCB-1260 Peak 1	Ave	0.0539	0.0516		0.479	0.500	-4.2	20.0
PCB-1260 Peak 2	Ave	0.0575	0.0514		0.447	0.500	-10.5	20.0
PCB-1260 Peak 3	Ave	0.0406	0.0426		0.525	0.500	4.9	20.0
PCB-1260 Peak 4	Ave	0.0807	0.0910		0.564	0.500	12.8	20.0
PCB-1260 Peak 5	Ave	0.0549	0.0593		0.540	0.500	8.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/31 Calibration Date: 12/06/2018 00:25

Instrument ID: HP6890-7 Calib Start Date: 05/07/2018 14:26

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/07/2018 16:02

Lab File ID: 7_32-297.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.34	2.31	2.37
PCB-1016 Peak 2	2.44	2.41	2.47
PCB-1016 Peak 3	2.53	2.50	2.56
PCB-1016 Peak 4	2.79	2.76	2.82
PCB-1016 Peak 5	2.89	2.86	2.92
PCB-1260 Peak 1	3.71	3.68	3.74
PCB-1260 Peak 2	4.12	4.10	4.16
PCB-1260 Peak 3	4.43	4.40	4.46
PCB-1260 Peak 4	4.57	4.55	4.61
PCB-1260 Peak 5	4.89	4.86	4.92

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 06-Dec-2018 00:25:02 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 12:52:13 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0301

First Level Reviewer: thongjanw Date: 06-Dec-2018 12:52:13

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.048	-0.001	12440243	0.5000	0.5000	
2	0.890	0.892	-0.002	36863439	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	476228	0.0125	0.0157	M
2	1.408	1.408	0.000	1308658	0.0125	0.0147	
						RPD = 6.11	
9 PCB-1016							M
1	2.837	2.835	0.002	1325068	0.5000	0.5006	M
1	2.921	2.919	0.002	496749	0.5000	0.5462	M
1	2.981	2.981	0.000	339123	0.5000	0.4838	M
1	3.101	3.102	-0.001	288126	0.5000	0.5868	M
1	3.375	3.373	0.002	433797	0.5000	0.4809	M
		Average of Peak Amounts =				0.5197	
2	2.337	2.337	0.000	3511925	0.5000	0.5464	
2	2.440	2.439	0.001	1356452	0.5000	0.4607	
2	2.526	2.525	0.001	914055	0.5000	0.5914	
2	2.791	2.790	0.001	1596055	0.5000	0.4677	
2	2.889	2.888	0.001	1214646	0.5000	0.5509	
		Average of Peak Amounts =				0.5234	
						RPD = 0.72	
2 1260 Res 1							M
1	4.089	4.083	0.000	242362	NC	NC	M
2	4.098	4.091	0.000	1181386	NC	NC	
4 1260 Res 2							M
1	4.191	4.183	0.002	334972	NC	NC	M
2	4.124	4.117	-0.001	1895845	NC	NC	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.285	4.283	0.002	706143	0.5000	0.4391	M
1	4.468	4.467	0.001	818506	0.5000	0.4543	M
1	4.696	4.694	0.002	1041474	0.5000	0.5057	M
1	5.013	5.014	-0.001	500541	0.5000	0.5494	M
1	5.220	5.218	0.002	1257337	0.5000	0.5851	M
		Average of Peak Amounts =				0.5067	
2	3.712	3.711	0.001	1903292	0.5000	0.4791	
2	4.124	4.125	-0.001	1895845	0.5000	0.4475	
2	4.427	4.427	0.000	1571443	0.5000	0.5245	
2	4.573	4.575	-0.002	3354494	0.5000	0.5640	
2	4.892	4.893	-0.001	2185507	0.5000	0.5400	
		Average of Peak Amounts =				0.5110	
						RPD = 0.84	
3 1260 Res 3							M
1	4.468	4.460	0.002	818506	NC	NC	M
2	4.427	4.418	0.000	1571443	NC	NC	
$ 15 DCB Decachlorobiphenyl							
1	6.762	6.764	-0.002	257686	0.0125	0.0135	
2	5.813	5.813	-0.001	579479	0.0125	0.0161	
						RPD = 17.61	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00053 Amount Added: 1.00 Units: mL

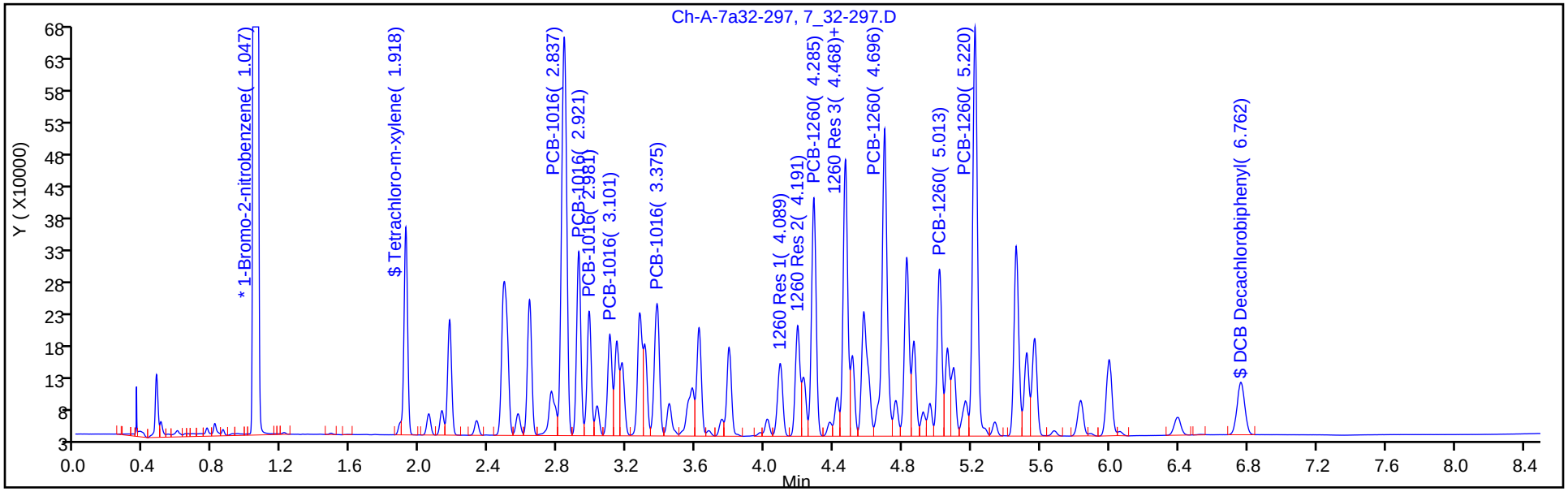
Report Date: 06-Dec-2018 12:52:17 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

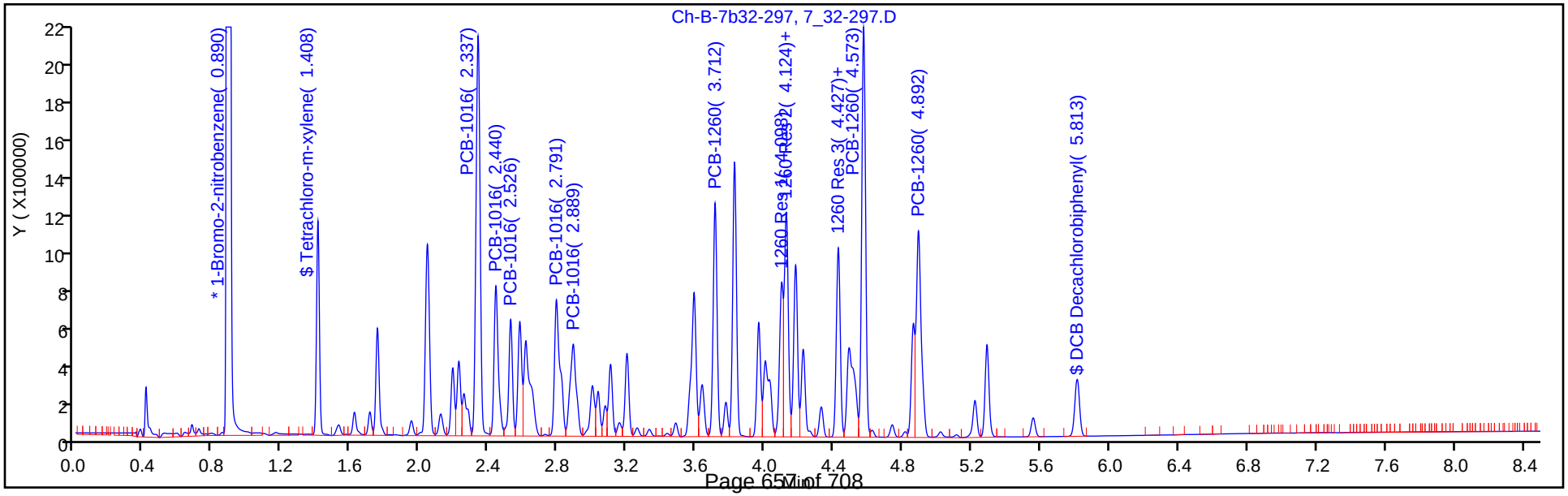
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D

Injection Date:	06-Dec-2018 00:25:02	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/31 Calibration Date: 12/06/2018 00:25

Instrument ID: HP6890-7 Calib Start Date: 09/17/2018 15:22

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 09/17/2018 16:42

Lab File ID: 7_32-297.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Lin1		1.420		0.0147	0.0125	17.9	20.0
DCB Decachlorobiphenyl	Lin1		0.6288		0.0161	0.0125	29.1*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Lab Sample ID: CCV 480-449147/31 Calibration Date: 12/06/2018 00:25

Instrument ID: HP6890-7 Calib Start Date: 09/17/2018 15:22

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 09/17/2018 16:42

Lab File ID: 7_32-297.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.41	1.38	1.44
DCB Decachlorobiphenyl	5.81	5.78	5.84

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 06-Dec-2018 00:25:02 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 12:52:13 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0301

First Level Reviewer: thongjanw Date: 06-Dec-2018 12:52:13

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.048	-0.001	12440243	0.5000	0.5000	
2	0.890	0.892	-0.002	36863439	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	476228	0.0125	0.0157	M
2	1.408	1.408	0.000	1308658	0.0125	0.0147	
						RPD = 6.11	
9 PCB-1016							M
1	2.837	2.835	0.002	1325068	0.5000	0.5006	M
1	2.921	2.919	0.002	496749	0.5000	0.5462	M
1	2.981	2.981	0.000	339123	0.5000	0.4838	M
1	3.101	3.102	-0.001	288126	0.5000	0.5868	M
1	3.375	3.373	0.002	433797	0.5000	0.4809	M
		Average of Peak Amounts =				0.5197	
2	2.337	2.337	0.000	3511925	0.5000	0.5464	
2	2.440	2.439	0.001	1356452	0.5000	0.4607	
2	2.526	2.525	0.001	914055	0.5000	0.5914	
2	2.791	2.790	0.001	1596055	0.5000	0.4677	
2	2.889	2.888	0.001	1214646	0.5000	0.5509	
		Average of Peak Amounts =				0.5234	
						RPD = 0.72	
2 1260 Res 1							M
1	4.089	4.083	0.000	242362	NC	NC	M
2	4.098	4.091	0.000	1181386	NC	NC	
4 1260 Res 2							M
1	4.191	4.183	0.002	334972	NC	NC	M
2	4.124	4.117	-0.001	1895845	NC	NC	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.285	4.283	0.002	706143	0.5000	0.4391	M
1	4.468	4.467	0.001	818506	0.5000	0.4543	M
1	4.696	4.694	0.002	1041474	0.5000	0.5057	M
1	5.013	5.014	-0.001	500541	0.5000	0.5494	M
1	5.220	5.218	0.002	1257337	0.5000	0.5851	M
		Average of Peak Amounts =				0.5067	
2	3.712	3.711	0.001	1903292	0.5000	0.4791	
2	4.124	4.125	-0.001	1895845	0.5000	0.4475	
2	4.427	4.427	0.000	1571443	0.5000	0.5245	
2	4.573	4.575	-0.002	3354494	0.5000	0.5640	
2	4.892	4.893	-0.001	2185507	0.5000	0.5400	
		Average of Peak Amounts =				0.5110	
						RPD = 0.84	
3 1260 Res 3							M
1	4.468	4.460	0.002	818506	NC	NC	M
2	4.427	4.418	0.000	1571443	NC	NC	
$ 15 DCB Decachlorobiphenyl							
1	6.762	6.764	-0.002	257686	0.0125	0.0135	
2	5.813	5.813	-0.001	579479	0.0125	0.0161	
						RPD = 17.61	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00053 Amount Added: 1.00 Units: mL

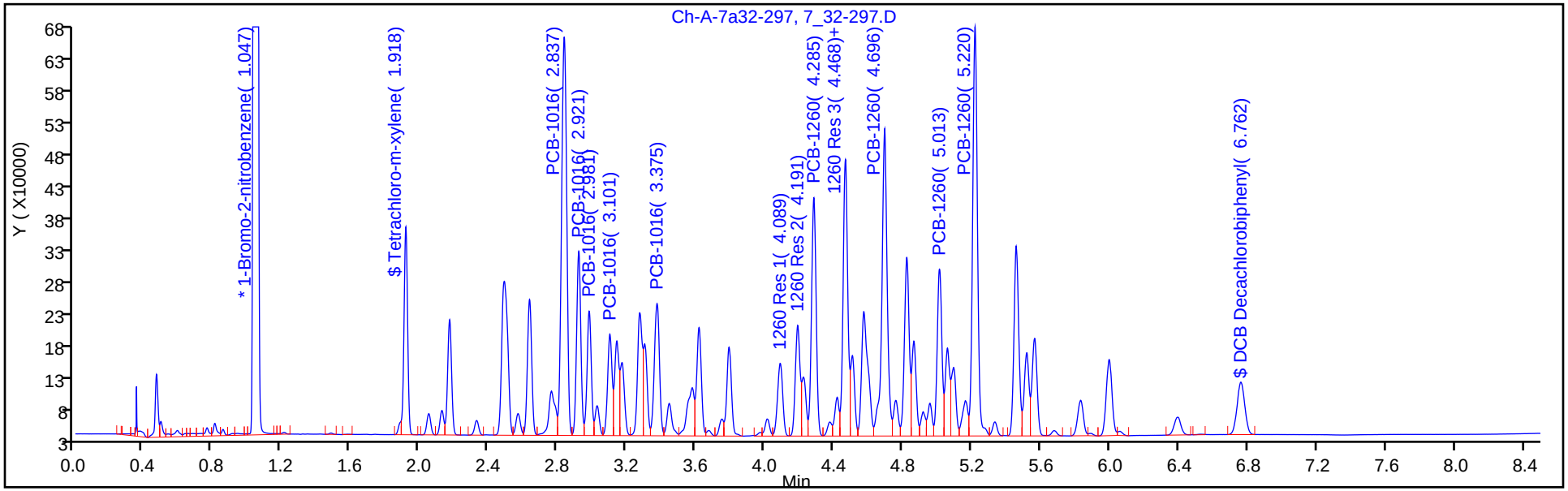
Report Date: 06-Dec-2018 12:52:17 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

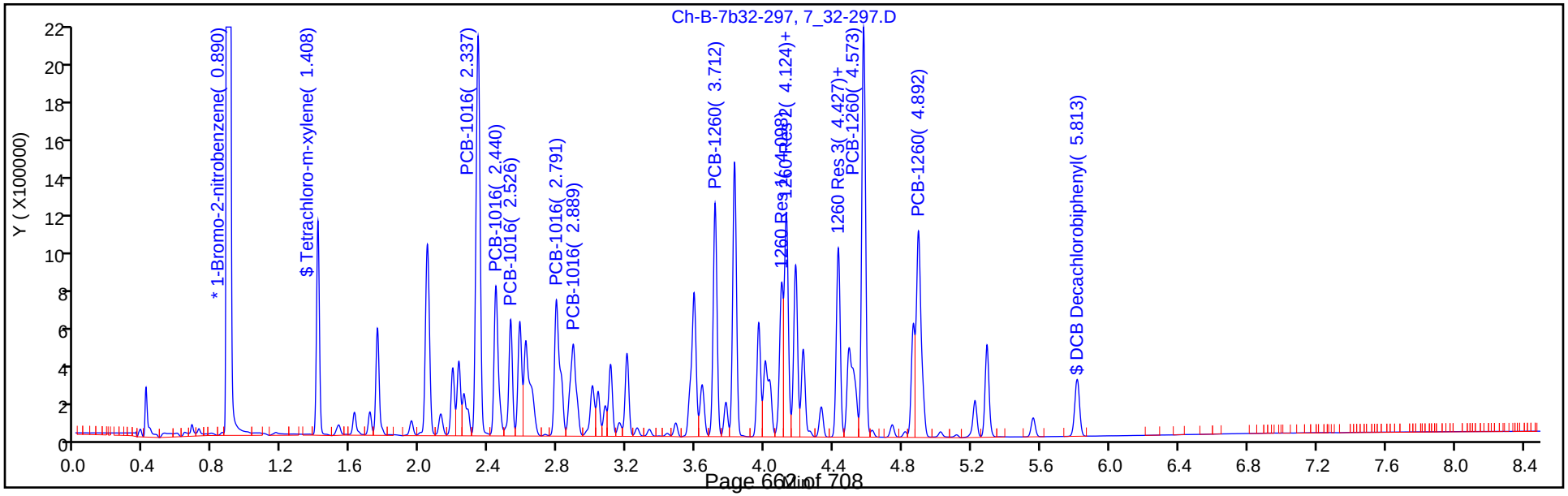
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-297.D

Injection Date:	06-Dec-2018 00:25:02	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-448984/1-A

Matrix: Water | Lab File ID: 7_32-277.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 19:06

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	84		39-121
2051-24-3	DCB Decachlorobiphenyl	44		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-277.D
Lims ID: MB 480-448984/1-A
Client ID:
Sample Type: MB
Inject. Date: 05-Dec-2018 19:06:09 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:23:37 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:23:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.053	1.048	0.004	14947362	0.5000	0.5000	
2	0.887	0.892	-0.005	48180695	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.929	1.918	0.011	612518	0.0200	0.0168	
2	1.403	1.408	-0.006	1373368	0.0200	0.0117	
						RPD = 35.59	
2 1260 Res 1							
1	4.103	4.089	0.014	1151		NC	
2	4.095	4.098	-0.003	65378		NC	
3 1260 Res 3							
1	4.502	4.467	0.035	1103		NC	
2	4.427	4.427	0.000	35949		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.788	6.764	0.024	203739	0.0200	0.008813	
2	5.815	5.813	0.002	471029	0.0200	0.009685	
						RPD = 9.42	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

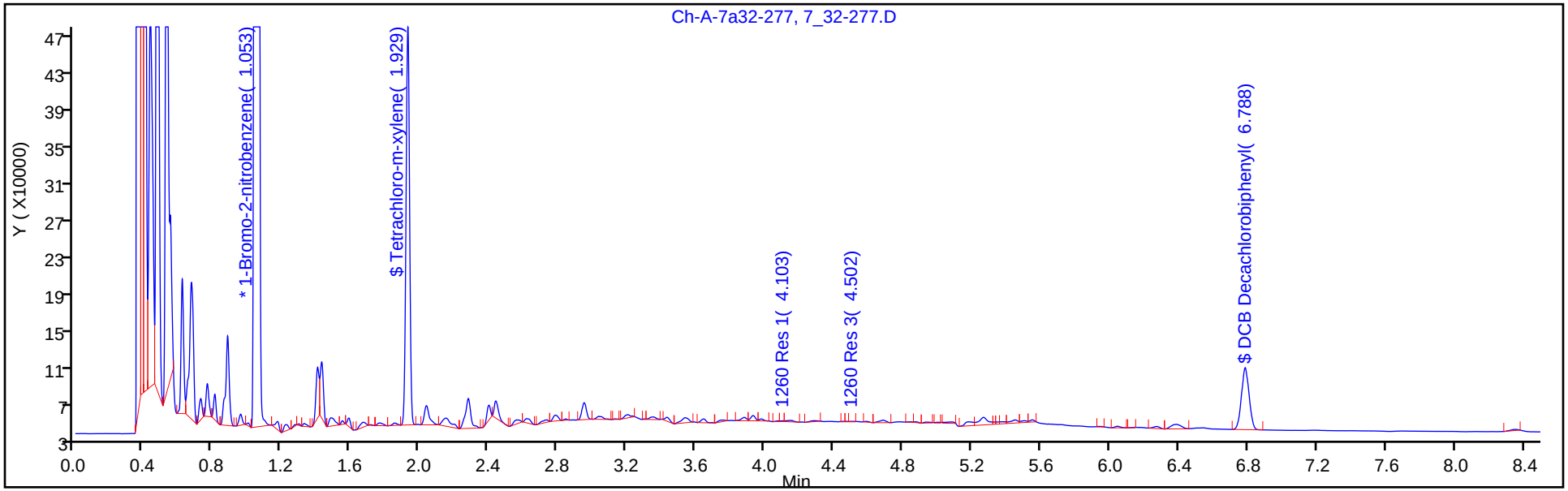
Report Date: 06-Dec-2018 09:23:37 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

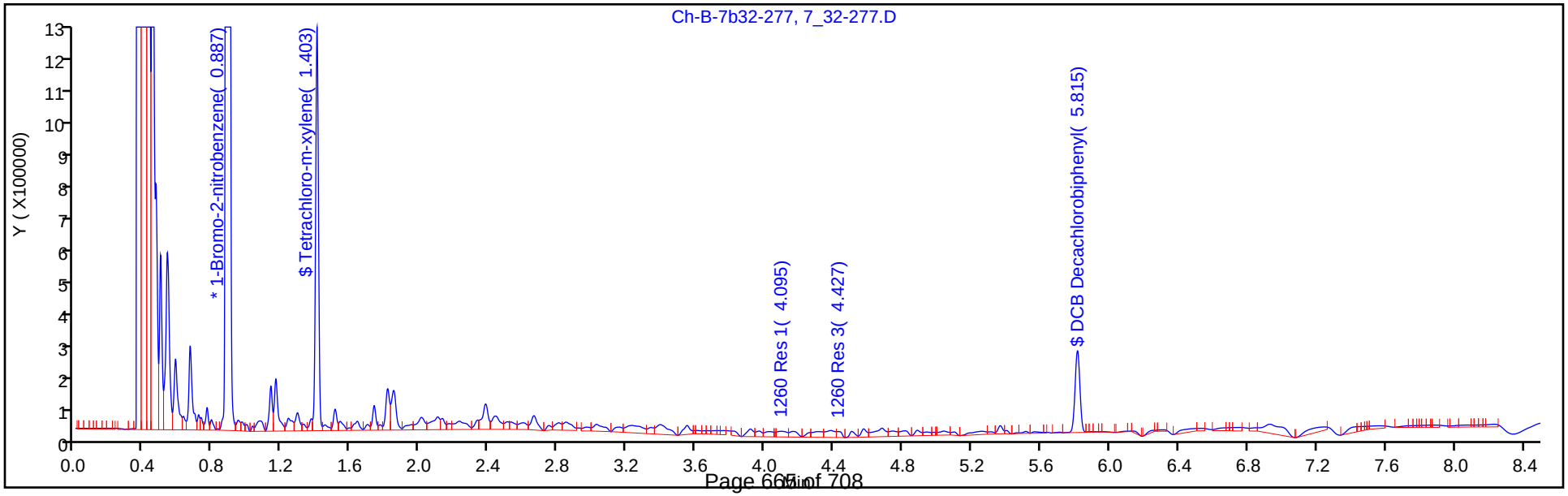
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-277.D

Injection Date:	05-Dec-2018 19:06:09	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	MB 480-448984/1-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-448984/1-A

Matrix: Water | Lab File ID: 7_32-277.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 19:06

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	59		39-121
2051-24-3	DCB Decachlorobiphenyl	48		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-277.D
Lims ID: MB 480-448984/1-A
Client ID:
Sample Type: MB
Inject. Date: 05-Dec-2018 19:06:09 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:23:37 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:23:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.053	1.048	0.004	14947362	0.5000	0.5000	
2	0.887	0.892	-0.005	48180695	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.929	1.918	0.011	612518	0.0200	0.0168	
2	1.403	1.408	-0.006	1373368	0.0200	0.0117	
						RPD = 35.59	
2 1260 Res 1							
1	4.103	4.089	0.014	1151		NC	
2	4.095	4.098	-0.003	65378		NC	
3 1260 Res 3							
1	4.502	4.467	0.035	1103		NC	
2	4.427	4.427	0.000	35949		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.788	6.764	0.024	203739	0.0200	0.008813	
2	5.815	5.813	0.002	471029	0.0200	0.009685	
						RPD = 9.42	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

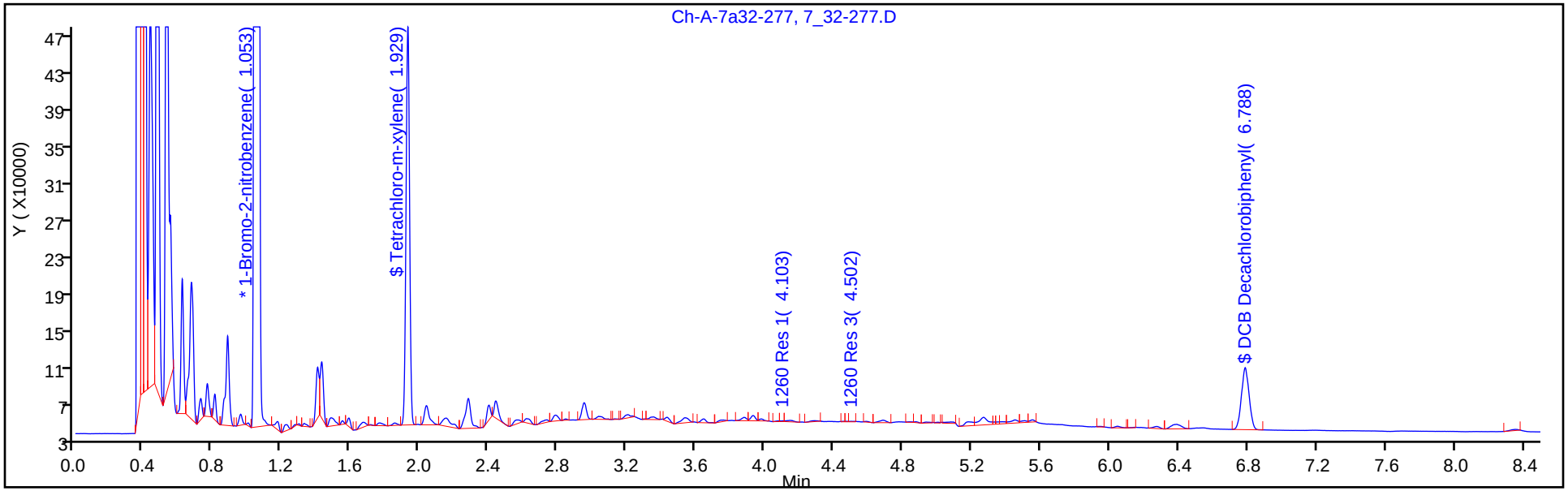
Report Date: 06-Dec-2018 09:23:38 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

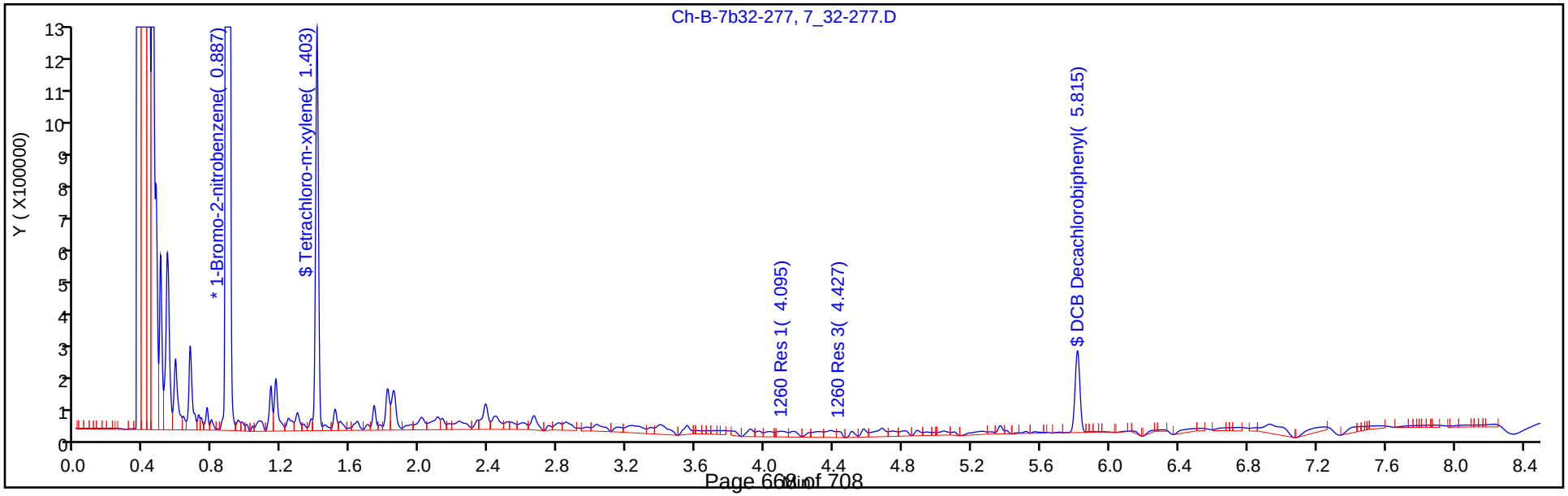
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-277.D

Injection Date:	05-Dec-2018 19:06:09	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	MB 480-448984/1-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-448984/2-A

Matrix: Water | Lab File ID: 7_32-278.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 19:22

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.63		0.50	0.18
11096-82-5	PCB-1260	3.14		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		39-121
2051-24-3	DCB Decachlorobiphenyl	47		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-278.D
Lims ID: LCS 480-448984/2-A
Client ID:
Sample Type: LCS
Inject. Date: 05-Dec-2018 19:22:08 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:26:17 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:26:46

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.048	-0.001	13431057	0.5000	0.5000	
2	0.889	0.892	-0.003	42599103	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.918	1.918	0.000	649244	0.0200	0.0199	
2	1.407	1.408	-0.001	1340484	0.0200	0.0130	
						RPD = 41.84	
9 PCB-1016							
1	2.837	2.835	0.002	1164679	0.5000	0.4076	
1	2.919	2.919	0.000	467178	0.5000	0.4730	
1	2.980	2.981	-0.001	322587	0.5000	0.4263	
1	3.101	3.102	-0.001	285013	0.5000	0.5341	
1	3.374	3.373	0.001	417692	0.5000	0.4288	
		Average of Peak Amounts =				0.4540	
2	2.335	2.337	-0.002	2986322	0.5000	0.4020	
2	2.438	2.439	-0.001	1281144	0.5000	0.3765	
2	2.524	2.525	-0.001	848928	0.5000	0.4702	
2	2.790	2.790	0.000	1477150	0.5000	0.3746	
2	2.886	2.888	-0.002	1158456	0.5000	0.4514	
		Average of Peak Amounts =				0.4149	
						RPD = 8.98	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.284	4.283	0.001	650086	0.5000	0.3745	
1	4.468	4.467	0.001	740112	0.5000	0.3805	
1	4.695	4.694	0.001	967918	0.5000	0.4323	
1	5.014	5.014	0.000	385426	0.5000	0.3868	
1	5.221	5.218	0.003	920885	0.5000	0.3912	
		Average of Peak Amounts =				0.3930	
2	3.710	3.711	-0.001	1791521	0.5000	0.3902	
2	4.123	4.125	-0.003	1829331	0.5000	0.3736	
2	4.424	4.427	-0.003	1290782	0.5000	0.3728	
2	4.573	4.575	-0.002	2315929	0.5000	0.3370	
2	4.891	4.893	-0.002	1616040	0.5000	0.3455	
		Average of Peak Amounts =				0.3638	
						RPD = 7.72	
$ 15 DCB Decachlorobiphenyl							
1	6.764	6.764	0.000	196113	0.0200	0.009459	
2	5.811	5.813	-0.002	465050	0.0200	0.0109	
						RPD = 14.36	

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

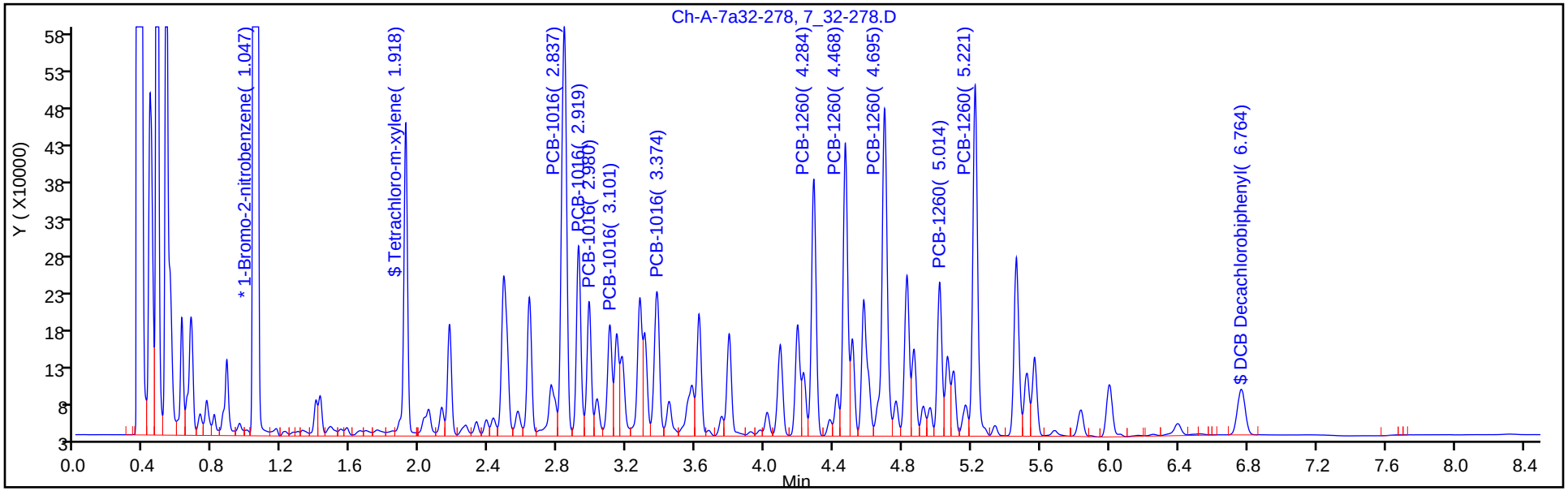
Report Date: 06-Dec-2018 09:26:46 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

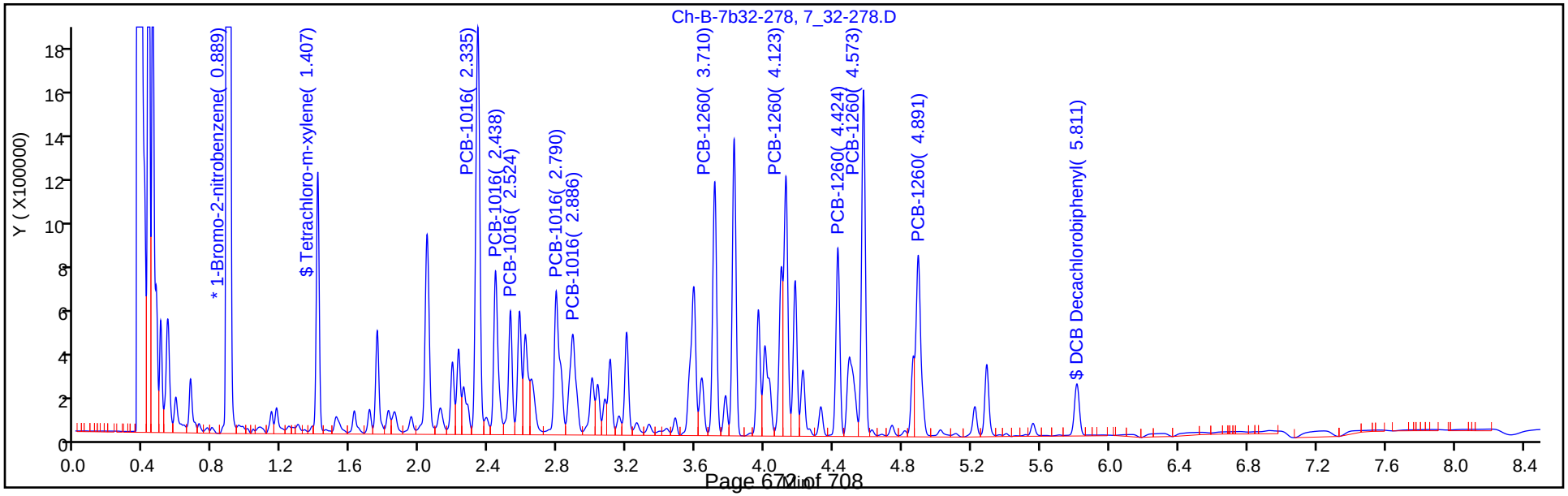
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-278.D

Injection Date:	05-Dec-2018 19:22:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	LCS 480-448984/2-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-448984/2-A

Matrix: Water | Lab File ID: 7_32-278.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 19:22

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	65		39-121
2051-24-3	DCB Decachlorobiphenyl	55		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-278.D
Lims ID: LCS 480-448984/2-A
Client ID:
Sample Type: LCS
Inject. Date: 05-Dec-2018 19:22:08 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:26:17 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:26:46

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.048	-0.001	13431057	0.5000	0.5000	
2	0.889	0.892	-0.003	42599103	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.918	1.918	0.000	649244	0.0200	0.0199	
2	1.407	1.408	-0.001	1340484	0.0200	0.0130	
						RPD = 41.84	
9 PCB-1016							
1	2.837	2.835	0.002	1164679	0.5000	0.4076	
1	2.919	2.919	0.000	467178	0.5000	0.4730	
1	2.980	2.981	-0.001	322587	0.5000	0.4263	
1	3.101	3.102	-0.001	285013	0.5000	0.5341	
1	3.374	3.373	0.001	417692	0.5000	0.4288	
		Average of Peak Amounts =				0.4540	
2	2.335	2.337	-0.002	2986322	0.5000	0.4020	
2	2.438	2.439	-0.001	1281144	0.5000	0.3765	
2	2.524	2.525	-0.001	848928	0.5000	0.4702	
2	2.790	2.790	0.000	1477150	0.5000	0.3746	
2	2.886	2.888	-0.002	1158456	0.5000	0.4514	
		Average of Peak Amounts =				0.4149	
						RPD = 8.98	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.284	4.283	0.001	650086	0.5000	0.3745	
1	4.468	4.467	0.001	740112	0.5000	0.3805	
1	4.695	4.694	0.001	967918	0.5000	0.4323	
1	5.014	5.014	0.000	385426	0.5000	0.3868	
1	5.221	5.218	0.003	920885	0.5000	0.3912	
		Average of Peak Amounts =				0.3930	
2	3.710	3.711	-0.001	1791521	0.5000	0.3902	
2	4.123	4.125	-0.003	1829331	0.5000	0.3736	
2	4.424	4.427	-0.003	1290782	0.5000	0.3728	
2	4.573	4.575	-0.002	2315929	0.5000	0.3370	
2	4.891	4.893	-0.002	1616040	0.5000	0.3455	
		Average of Peak Amounts =				0.3638	
						RPD = 7.72	
$ 15 DCB Decachlorobiphenyl							
1	6.764	6.764	0.000	196113	0.0200	0.009459	
2	5.811	5.813	-0.002	465050	0.0200	0.0109	
						RPD = 14.36	

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

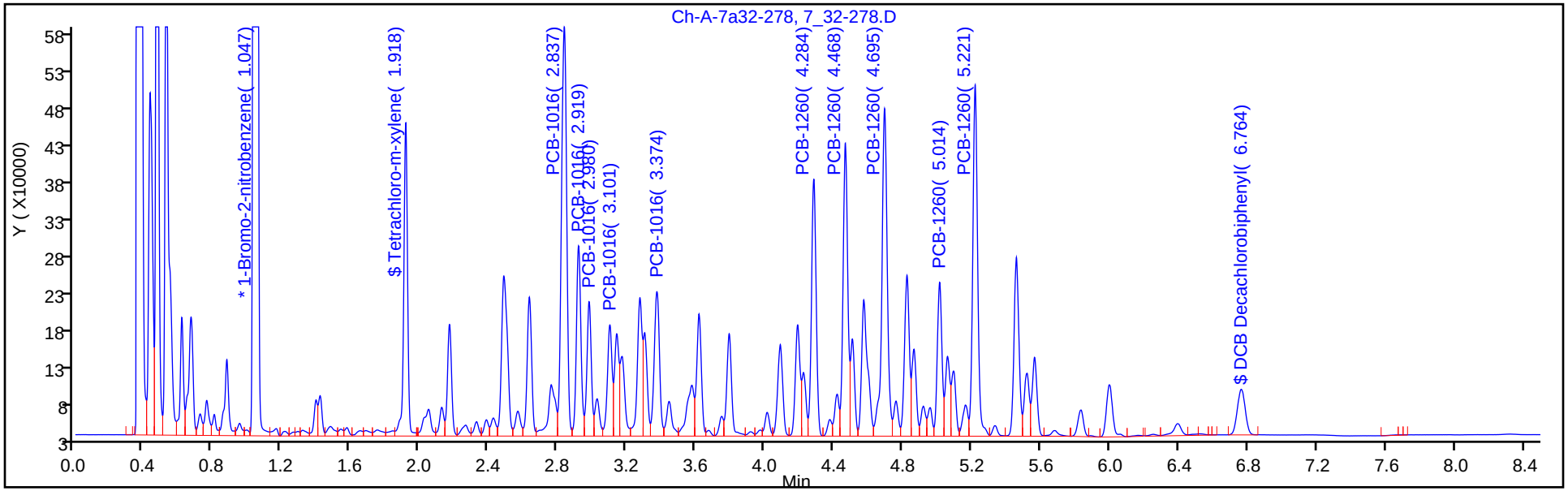
Report Date: 06-Dec-2018 09:26:47 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

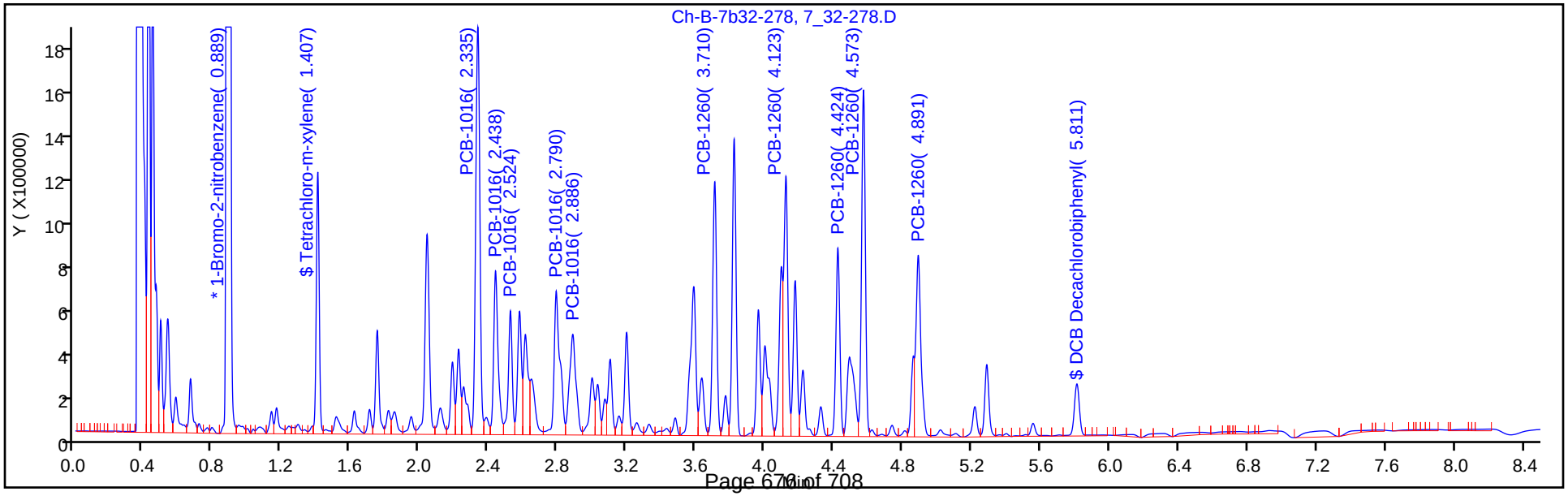
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-278.D

Injection Date:	05-Dec-2018 19:22:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	LCS 480-448984/2-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 MS | Lab Sample ID: 480-146076-7 MS

Matrix: Water | Lab File ID: 7_32-279.D

Analysis Method: 8082A | Date Collected: 11/29/2018 09:50

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 19:37

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.63		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	3.35		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		39-121
2051-24-3	DCB Decachlorobiphenyl	67		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-279.D
Lims ID: 480-146076-A-7-A MS
Client ID: MW-8
Sample Type: MS
Inject. Date: 05-Dec-2018 19:37:58 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:25:04 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:25:04

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.048	1.048	0.000	13053478	0.5000	0.5000	
2	0.890	0.892	-0.002	41260625	0.5000	0.5000	M
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	661041	0.0200	0.0208	M
2	1.408	1.408	0.000	1418438	0.0200	0.0143	M
						RPD = 37.54	
9 PCB-1016							M
1	2.836	2.835	0.001	1157769	0.5000	0.4169	M
1	2.919	2.919	0.000	458020	0.5000	0.4773	M
1	2.981	2.981	0.000	312327	0.5000	0.4247	M
1	3.101	3.102	-0.001	273963	0.5000	0.5277	M
1	3.375	3.373	0.002	401983	0.5000	0.4247	M
		Average of Peak Amounts =				0.4543	
2	2.337	2.337	0.000	3014801	0.5000	0.4190	M
2	2.439	2.439	0.000	1249764	0.5000	0.3792	M
2	2.525	2.525	0.000	828501	0.5000	0.4739	M
2	2.790	2.790	0.000	1451766	0.5000	0.3801	M
2	2.887	2.888	-0.001	1133221	0.5000	0.4561	M
		Average of Peak Amounts =				0.4217	
						RPD = 7.44	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 1260 Res 1							M
1	4.089	4.089	0.000	249053		NC	M
2	4.098	4.098	-0.001	1034216		NC	
4 1260 Res 2							M
1	4.189	4.189	0.000	285036		NC	M
2	4.123	4.125	-0.002	1877854		NC	
12 PCB-1260							M
1	4.285	4.283	0.002	655212	0.5000	0.3883	M
1	4.468	4.467	0.001	750130	0.5000	0.3968	M
1	4.695	4.694	0.001	974562	0.5000	0.4486	M
1	5.014	5.014	0.000	403218	0.5000	0.4177	M
1	5.220	5.218	0.002	1013294	0.5000	0.4452	M
		Average of Peak Amounts =				0.4193	
2	3.710	3.711	-0.001	1792442	0.5000	0.4031	
2	4.123	4.125	-0.002	1877854	0.5000	0.3960	
2	4.424	4.427	-0.003	1346927	0.5000	0.4017	
2	4.573	4.575	-0.003	2554282	0.5000	0.3837	
2	4.890	4.893	-0.003	1783503	0.5000	0.3937	
		Average of Peak Amounts =				0.3956	
						RPD = 5.82	
3 1260 Res 3							M
1	4.468	4.467	0.001	750130		NC	M
2	4.424	4.427	-0.003	1346927		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.762	6.764	-0.002	268680	0.0200	0.0134	
2	5.810	5.813	-0.003	634186	0.0200	0.0158	
						RPD = 15.89	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

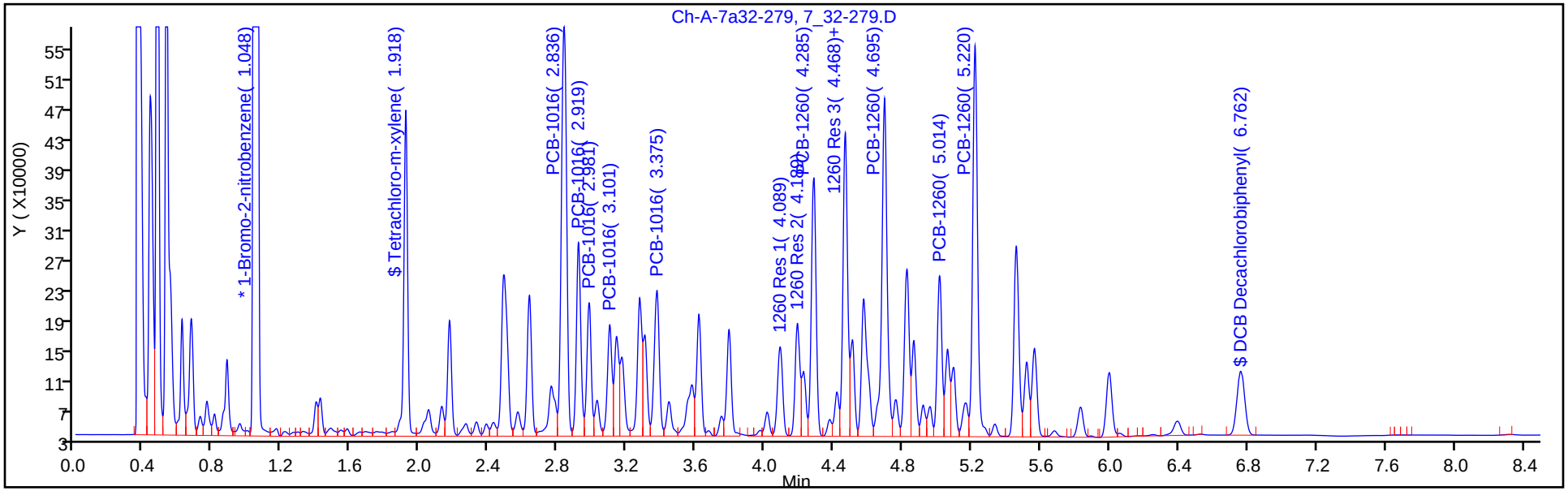
Report Date: 06-Dec-2018 09:25:04 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

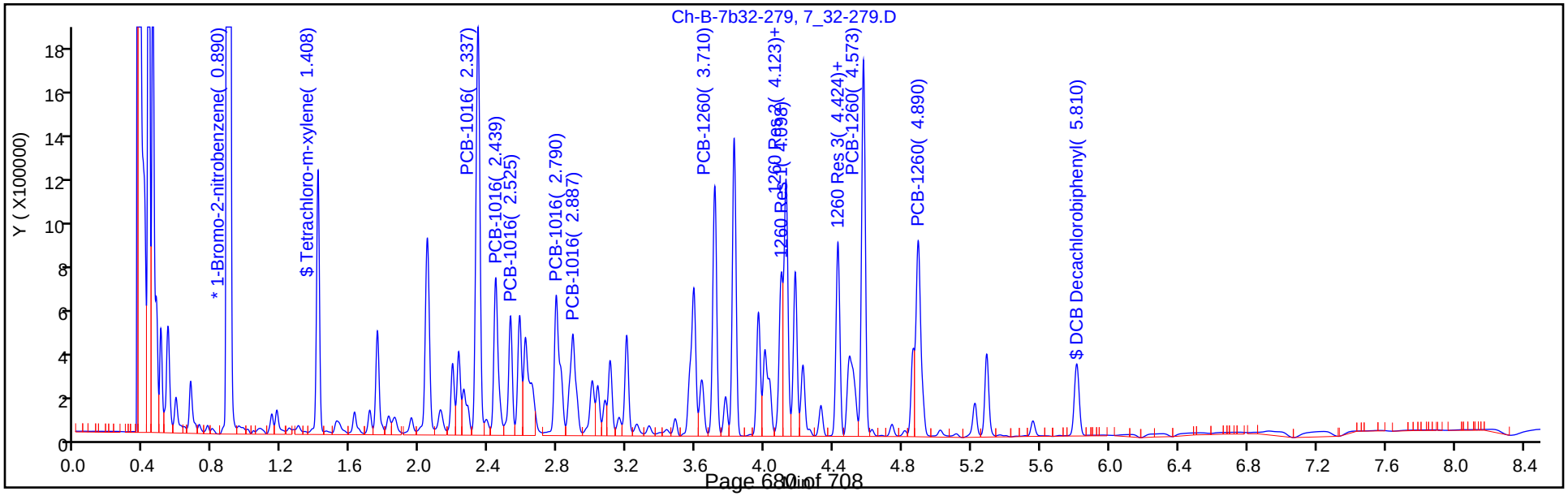
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-279.D

Injection Date:	05-Dec-2018 19:37:58	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-A-7-A MS			Worklist Smp#:	13
Client ID:	MW-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



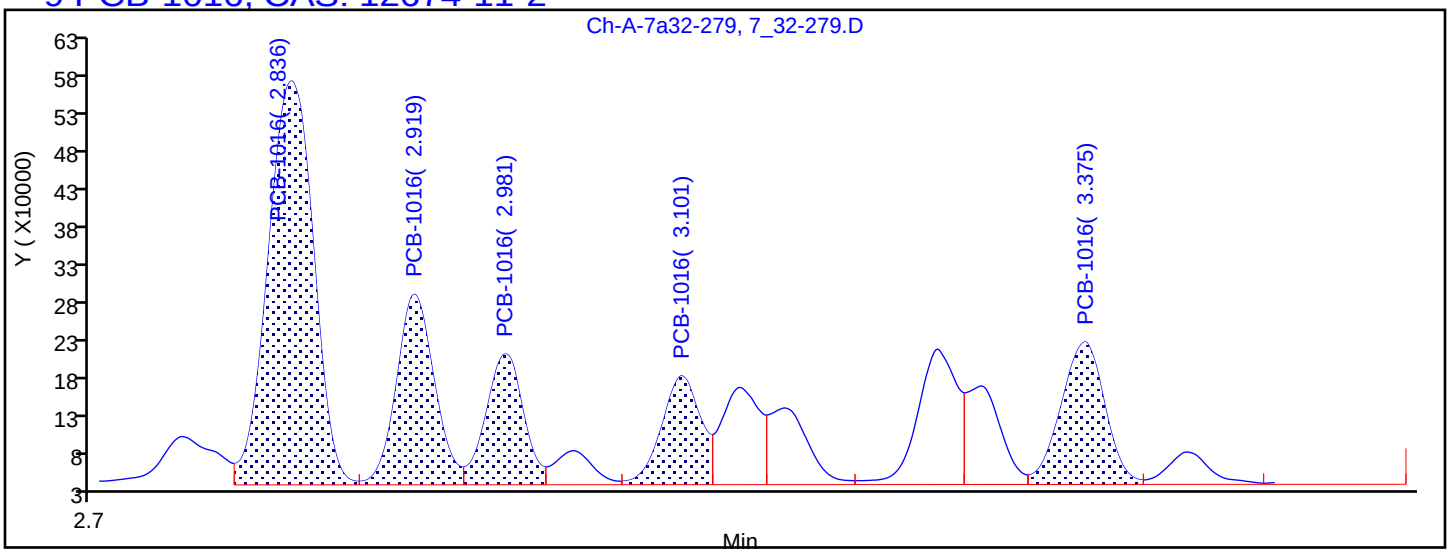
Report Date: 06-Dec-2018 09:25:05 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-279.D

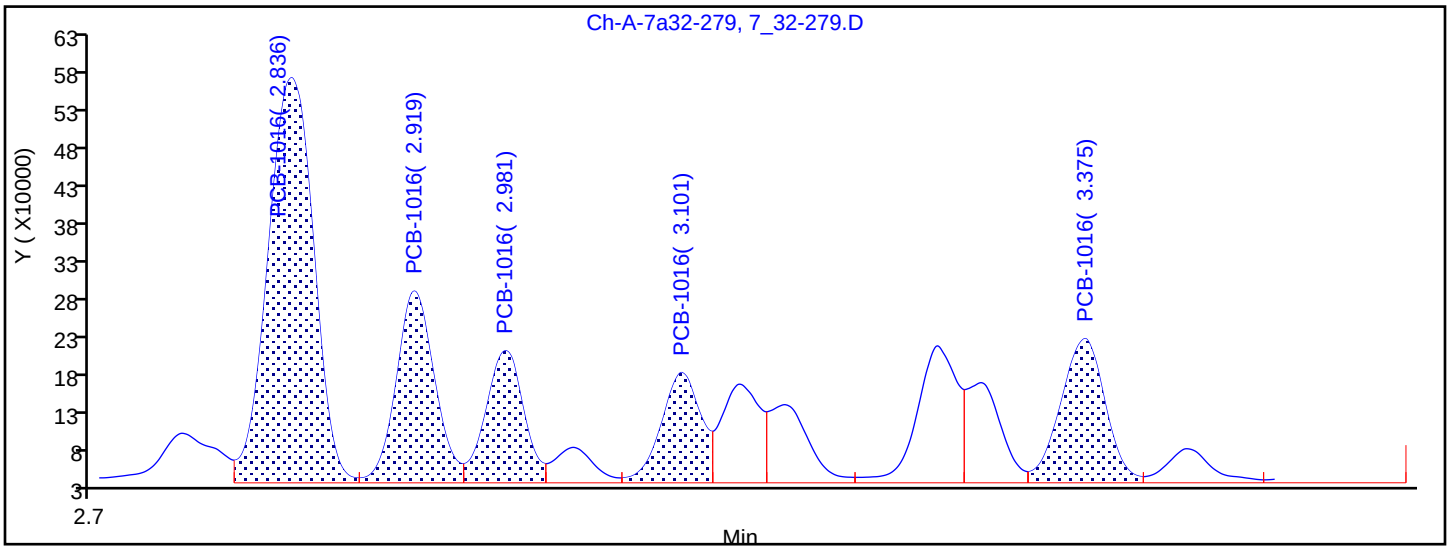
Injection Date:	05-Dec-2018 19:37:58	Instrument ID:	HP6890-7		
Lims ID:	480-146076-A-7-A MS				
Client ID:	MW-8				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.836	Response = 1149318
2.919	Response = 450651
2.981	Response = 306307
3.101	Response = 266909
3.375	Response = 391699



Manual Integration Results

2.836	Response = 1157769	M
2.919	Response = 458020	M
2.981	Response = 312327	M
3.101	Response = 273963	M
3.375	Response = 401983	M

Reviewer: thongjanw, 06-Dec-2018 09:24:33

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 06-Dec-2018 09:25:05 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-279.D

Injection Date: 05-Dec-2018 19:37:58 Instrument ID: HP6890-7

Lims ID: 480-146076-A-7-A MS

Client ID: MW-8

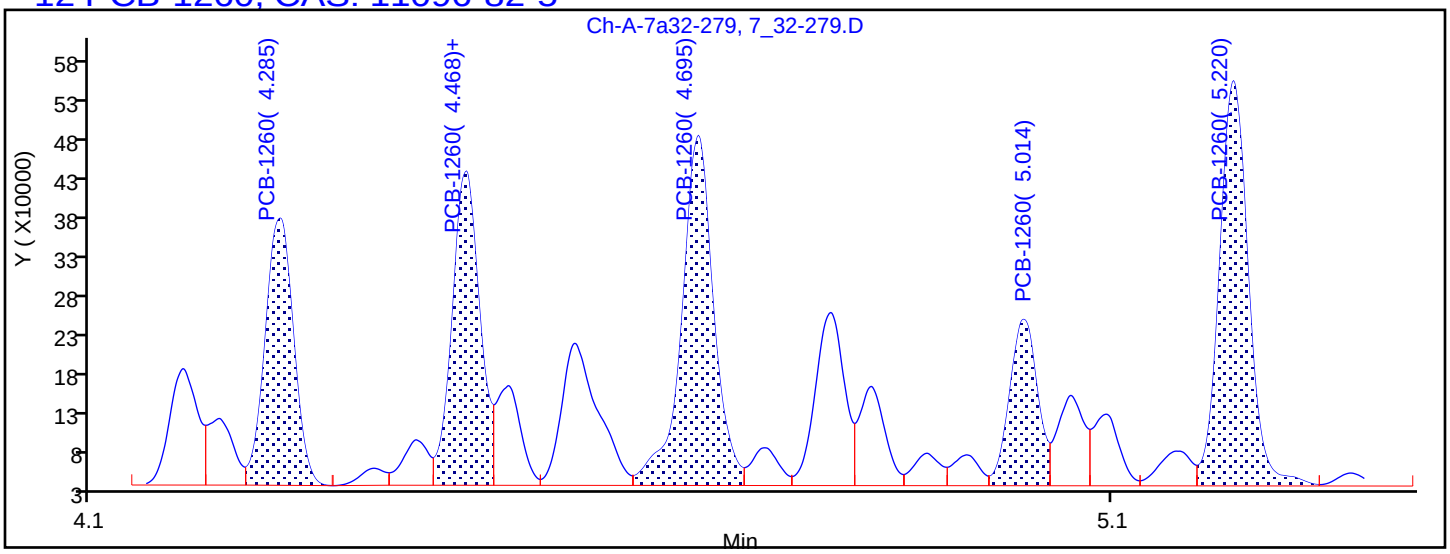
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

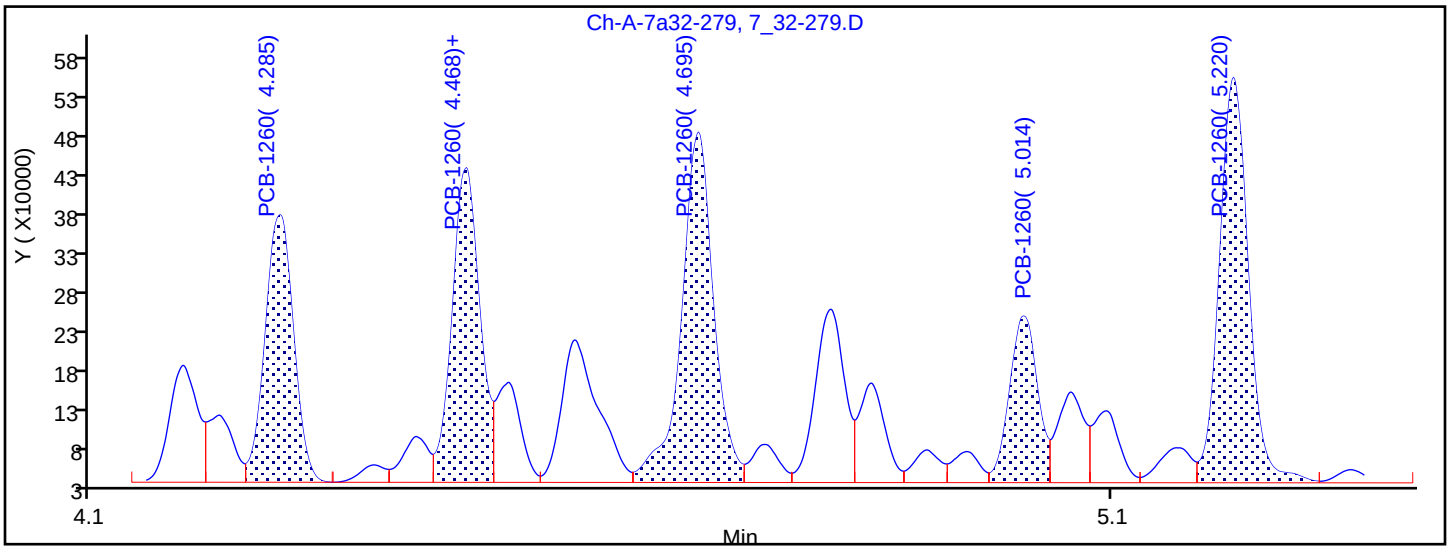
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.285	Response = 653657
4.468	Response = 748234
4.695	Response = 971589
5.014	Response = 402008
5.220	Response = 1011487



Manual Integration Results

4.285	Response = 655212	M
4.468	Response = 750130	M
4.695	Response = 974562	M
5.014	Response = 403218	M
5.220	Response = 1013294	M

Reviewer: thongjanw, 06-Dec-2018 09:24:47

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

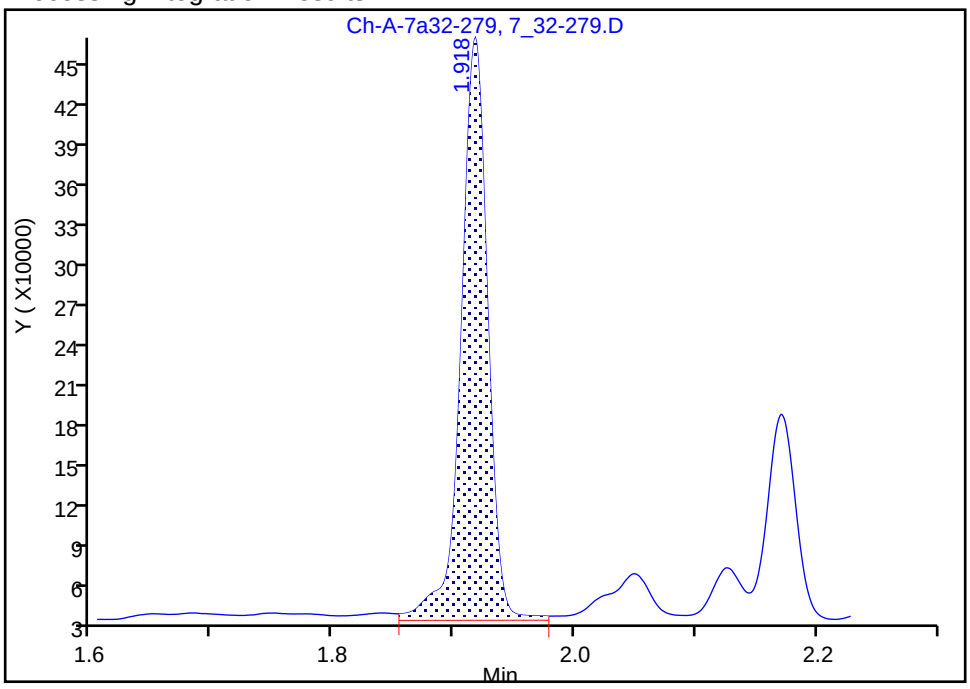
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-279.D
Injection Date: 05-Dec-2018 19:37:58 Instrument ID: HP6890-7
Lims ID: 480-146076-A-7-A MS
Client ID: MW-8
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

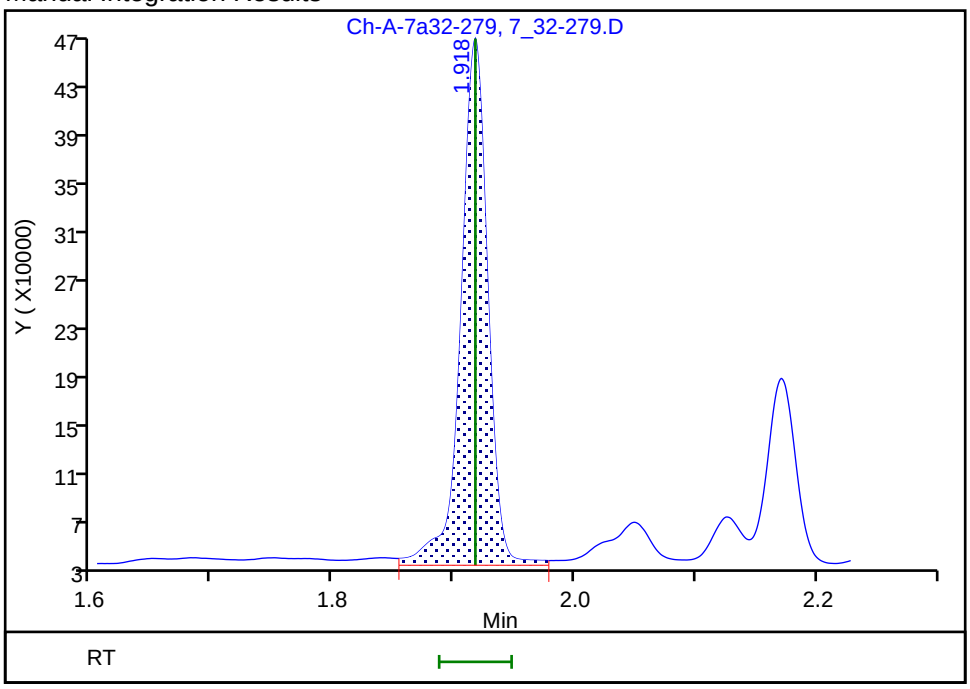
Processing Integration Results

RT: 1.92
Area: 655509
Amount: 0.020668
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 661041
Amount: 0.020846
Amount Units: ng/uL



Reviewer: thongjanw, 06-Dec-2018 09:24:33
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 MS | Lab Sample ID: 480-146076-7 MS

Matrix: Water | Lab File ID: 7_32-279.D

Analysis Method: 8082A | Date Collected: 11/29/2018 09:50

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 19:37

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	71		39-121
2051-24-3	DCB Decachlorobiphenyl	79		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-279.D
Lims ID: 480-146076-A-7-A MS
Client ID: MW-8
Sample Type: MS
Inject. Date: 05-Dec-2018 19:37:58 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:25:04 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:25:04

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.048	1.048	0.000	13053478	0.5000	0.5000	
2	0.890	0.892	-0.002	41260625	0.5000	0.5000	M
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	661041	0.0200	0.0208	M
2	1.408	1.408	0.000	1418438	0.0200	0.0143	M
						RPD = 37.54	
9 PCB-1016							M
1	2.836	2.835	0.001	1157769	0.5000	0.4169	M
1	2.919	2.919	0.000	458020	0.5000	0.4773	M
1	2.981	2.981	0.000	312327	0.5000	0.4247	M
1	3.101	3.102	-0.001	273963	0.5000	0.5277	M
1	3.375	3.373	0.002	401983	0.5000	0.4247	M
		Average of Peak Amounts =				0.4543	
2	2.337	2.337	0.000	3014801	0.5000	0.4190	M
2	2.439	2.439	0.000	1249764	0.5000	0.3792	M
2	2.525	2.525	0.000	828501	0.5000	0.4739	M
2	2.790	2.790	0.000	1451766	0.5000	0.3801	M
2	2.887	2.888	-0.001	1133221	0.5000	0.4561	M
		Average of Peak Amounts =				0.4217	
						RPD = 7.44	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 1260 Res 1							M
1	4.089	4.089	0.000	249053		NC	M
2	4.098	4.098	-0.001	1034216		NC	
4 1260 Res 2							M
1	4.189	4.189	0.000	285036		NC	M
2	4.123	4.125	-0.002	1877854		NC	
12 PCB-1260							M
1	4.285	4.283	0.002	655212	0.5000	0.3883	M
1	4.468	4.467	0.001	750130	0.5000	0.3968	M
1	4.695	4.694	0.001	974562	0.5000	0.4486	M
1	5.014	5.014	0.000	403218	0.5000	0.4177	M
1	5.220	5.218	0.002	1013294	0.5000	0.4452	M
		Average of Peak Amounts =				0.4193	
2	3.710	3.711	-0.001	1792442	0.5000	0.4031	
2	4.123	4.125	-0.002	1877854	0.5000	0.3960	
2	4.424	4.427	-0.003	1346927	0.5000	0.4017	
2	4.573	4.575	-0.003	2554282	0.5000	0.3837	
2	4.890	4.893	-0.003	1783503	0.5000	0.3937	
		Average of Peak Amounts =				0.3956	
						RPD = 5.82	
3 1260 Res 3							M
1	4.468	4.467	0.001	750130		NC	M
2	4.424	4.427	-0.003	1346927		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.762	6.764	-0.002	268680	0.0200	0.0134	
2	5.810	5.813	-0.003	634186	0.0200	0.0158	
						RPD = 15.89	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

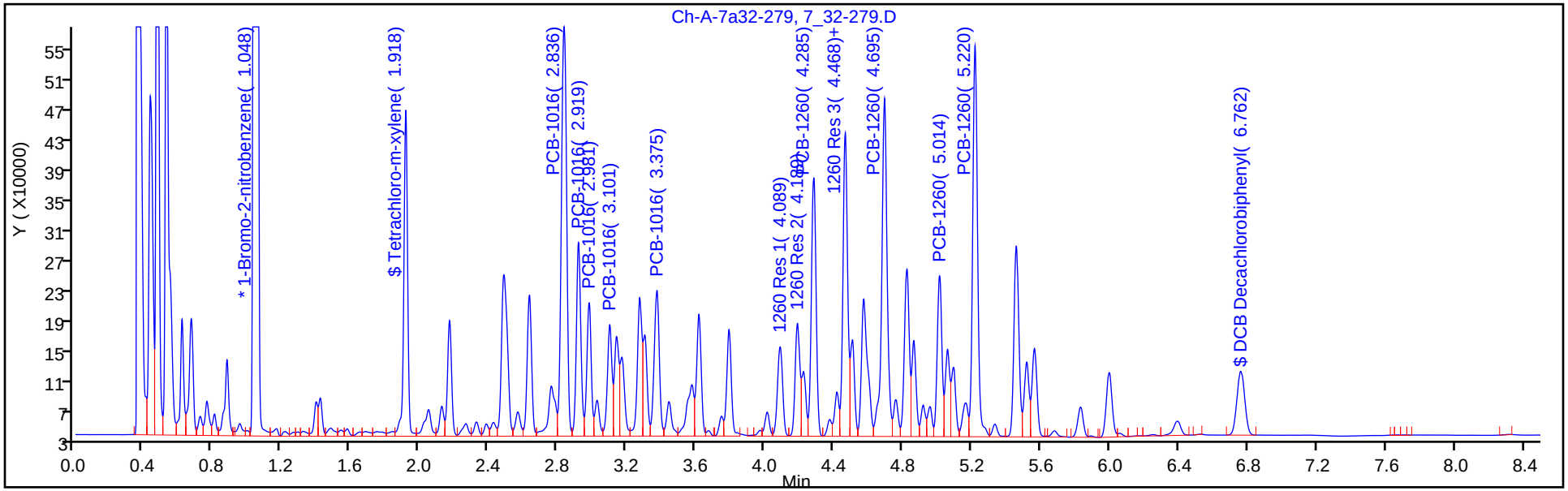
Report Date: 06-Dec-2018 09:25:05 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

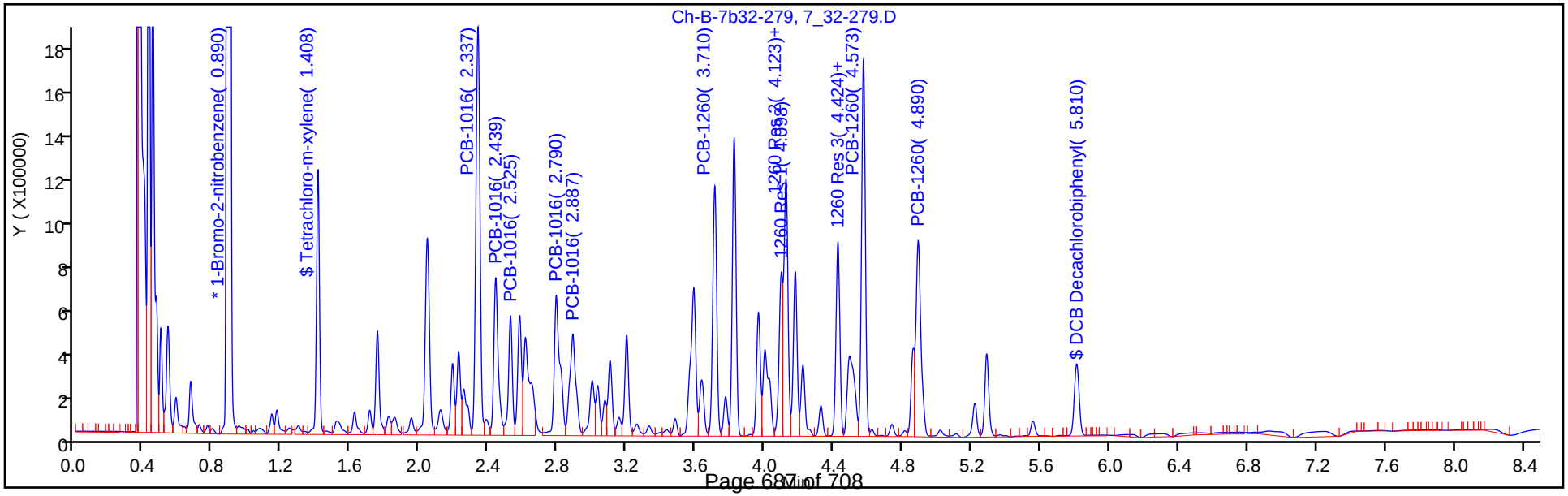
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-279.D

Injection Date:	05-Dec-2018 19:37:58	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-A-7-A MS			Worklist Smp#:	13
Client ID:	MW-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



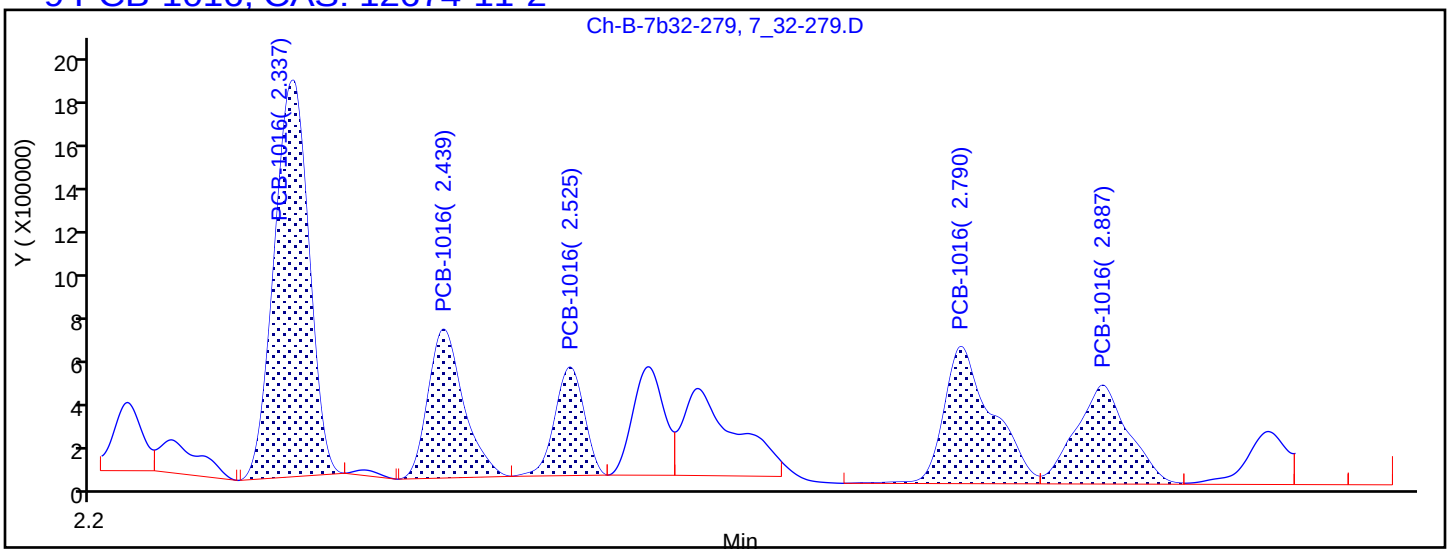
Report Date: 06-Dec-2018 09:25:05 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-279.D

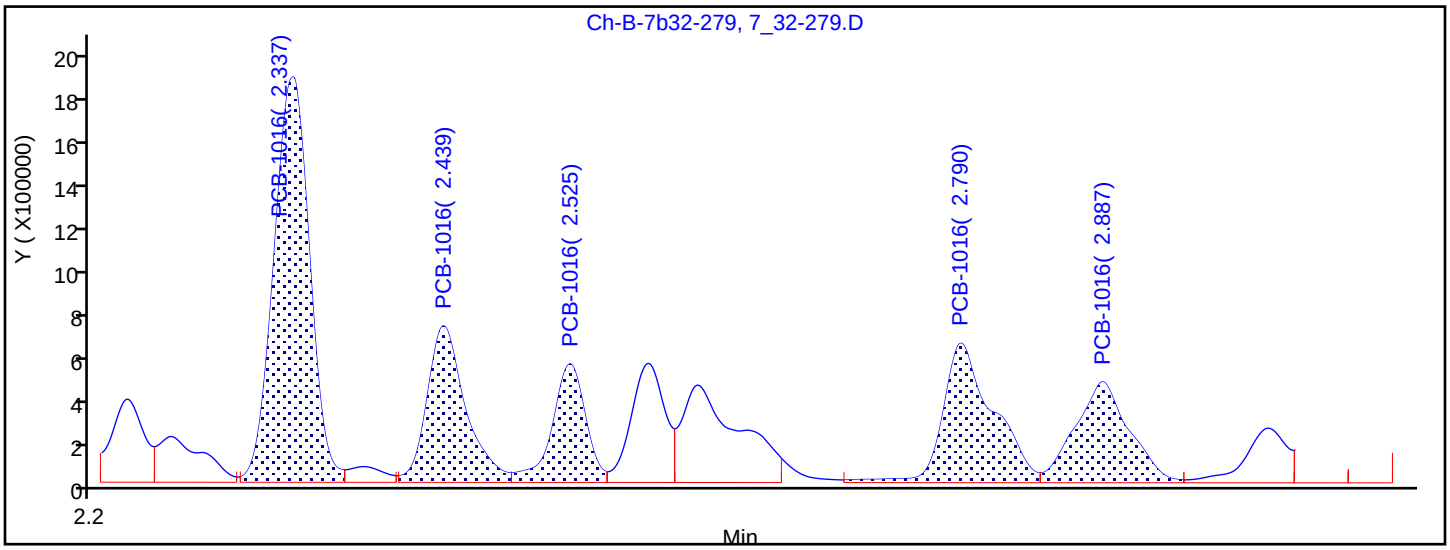
Injection Date:	05-Dec-2018 19:37:58	Instrument ID:	HP6890-7		
Lims ID:	480-146076-A-7-A MS				
Client ID:	MW-8				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.337	Response = 2848991
2.439	Response = 1087940
2.525	Response = 655230
2.790	Response = 1366258
2.887	Response = 1080247



Manual Integration Results

2.337	Response = 3014801	M
2.439	Response = 1249764	M
2.525	Response = 828501	M
2.790	Response = 1451766	M
2.887	Response = 1133221	M

Reviewer: thongjanw, 06-Dec-2018 09:25:00

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

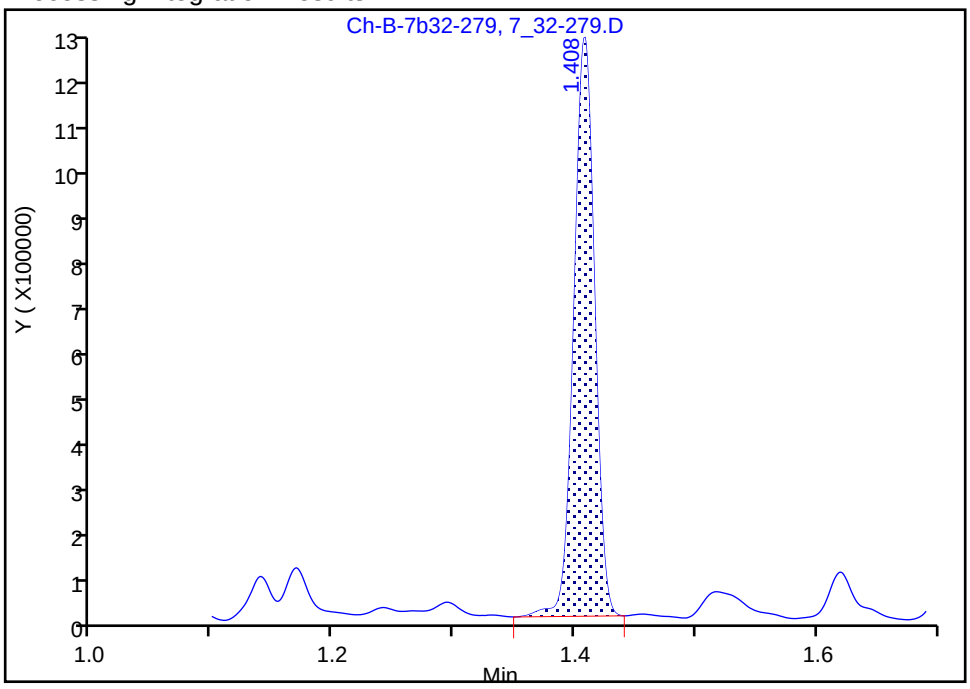
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-279.D
Injection Date: 05-Dec-2018 19:37:58 Instrument ID: HP6890-7
Lims ID: 480-146076-A-7-A MS
Client ID: MW-8
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

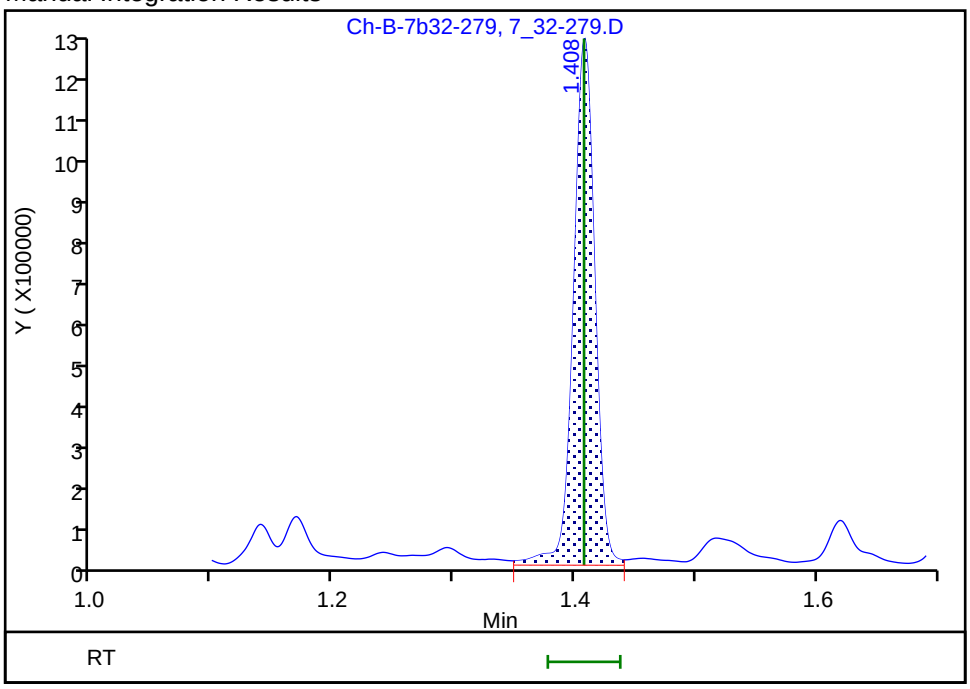
Processing Integration Results

RT: 1.41
Area: 1360124
Amount: 0.013653
Amount Units: ng/uL



Manual Integration Results

RT: 1.41
Area: 1418438
Amount: 0.014257
Amount Units: ng/uL



Reviewer: thongjanw, 06-Dec-2018 09:25:00
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

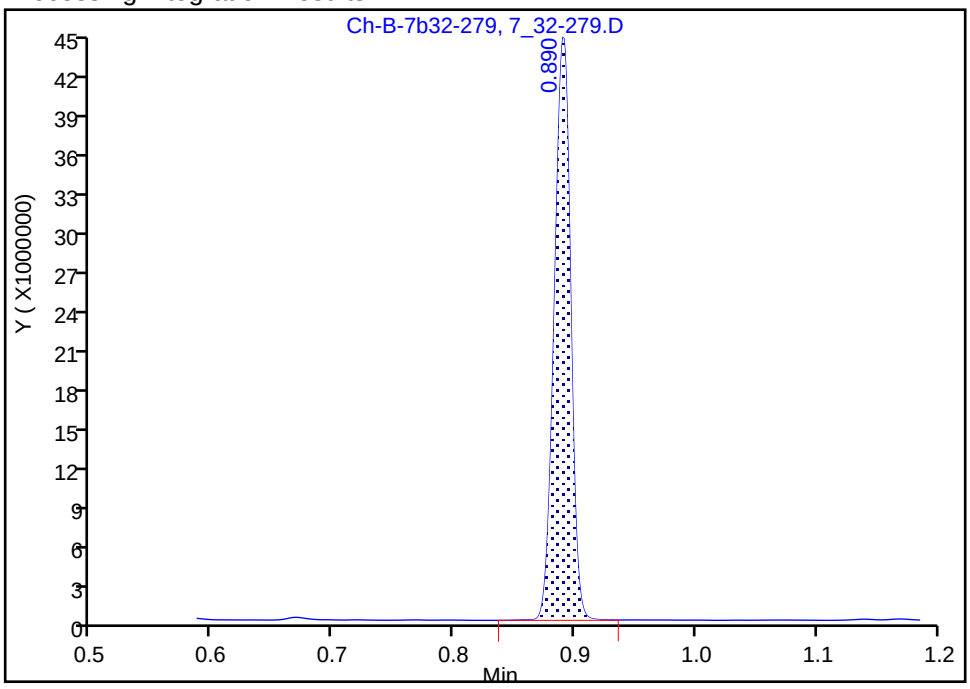
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-279.D
Injection Date: 05-Dec-2018 19:37:58 Instrument ID: HP6890-7
Lims ID: 480-146076-A-7-A MS
Client ID: MW-8
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

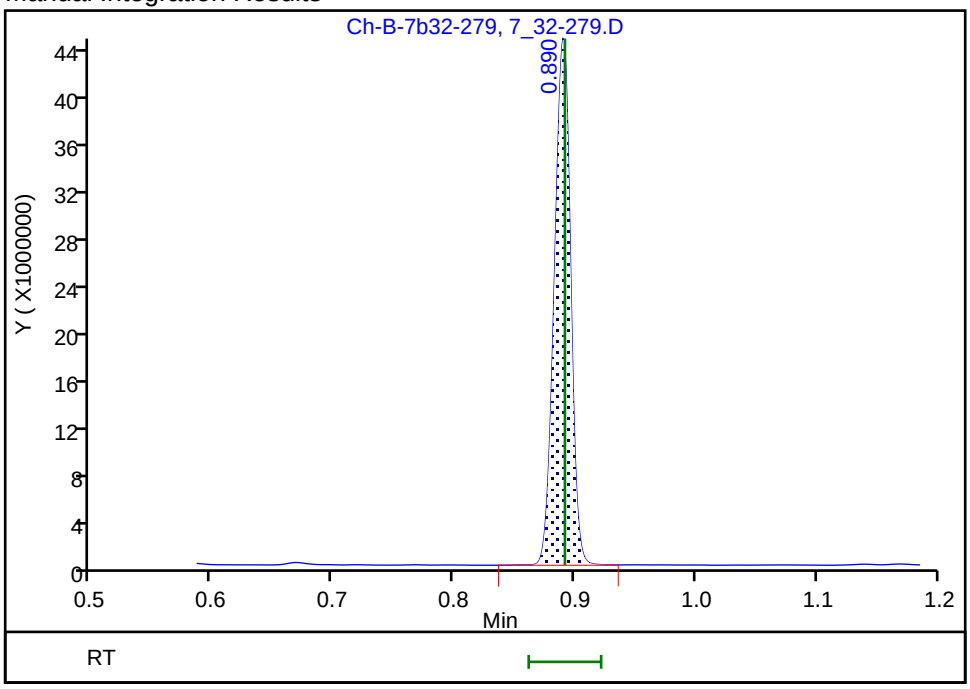
Processing Integration Results

RT: 0.89
Area: 41243917
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 0.89
Area: 41260625
Amount: 0.500000
Amount Units: ng/uL



Reviewer: thongjanw, 06-Dec-2018 09:25:00
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 MSD | Lab Sample ID: 480-146076-7 MSD

Matrix: Water | Lab File ID: 7_32-280.D

Analysis Method: 8082A | Date Collected: 11/29/2018 09:50

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 19:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.43		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	3.13		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		39-121
2051-24-3	DCB Decachlorobiphenyl	60		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-280.D
Lims ID: 480-146076-B-7-A MSD
Client ID: MW-8
Sample Type: MSD
Inject. Date: 05-Dec-2018 19:53:51 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:25:35 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:25:54

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	13330344	0.5000	0.5000	
2	0.891	0.892	-0.001	42081511	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.918	1.918	0.000	645498	0.0200	0.0199	
2	1.408	1.408	0.000	1389480	0.0200	0.0137	
						RPD = 37.19	
9 PCB-1016							
1	2.838	2.835	0.003	1123718	0.5000	0.3962	
1	2.921	2.919	0.002	443066	0.5000	0.4510	
1	2.983	2.981	0.001	303005	0.5000	0.4034	
1	3.103	3.102	0.000	261895	0.5000	0.4913	
1	3.374	3.373	0.001	388719	0.5000	0.4021	
		Average of Peak Amounts =				0.4288	
2	2.337	2.337	0.000	2928498	0.5000	0.3991	
2	2.440	2.439	0.001	1165229	0.5000	0.3467	
2	2.526	2.525	0.001	774410	0.5000	0.4321	
2	2.791	2.790	0.001	1329019	0.5000	0.3411	
2	2.888	2.888	0.000	1049454	0.5000	0.4124	
		Average of Peak Amounts =				0.3863	
						RPD = 10.43	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 1260 Res 1							
1	4.091	4.089	0.002	240645		NC	
2	4.098	4.098	-0.001	999538		NC	
4 1260 Res 2							
1	4.191	4.189	0.002	280946		NC	
2	4.123	4.125	-0.002	1781485		NC	
12 PCB-1260							
1	4.286	4.283	0.003	631983	0.5000	0.3668	
1	4.468	4.467	0.001	717896	0.5000	0.3719	
1	4.694	4.694	0.000	936072	0.5000	0.4206	
1	5.013	5.014	-0.001	382367	0.5000	0.3866	
1	5.219	5.218	0.001	959626	0.5000	0.4116	
		Average of Peak Amounts =				0.3915	
2	3.711	3.711	0.000	1709987	0.5000	0.3770	
2	4.123	4.125	-0.002	1781485	0.5000	0.3683	
2	4.426	4.427	-0.001	1276549	0.5000	0.3733	
2	4.573	4.575	-0.002	2480438	0.5000	0.3653	
2	4.891	4.893	-0.002	1719289	0.5000	0.3721	
		Average of Peak Amounts =				0.3712	
						RPD = 5.32	
3 1260 Res 3							
1	4.468	4.467	0.002	717896		NC	
2	4.426	4.427	-0.001	1276549		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.762	6.764	-0.002	244493	0.0200	0.0119	
2	5.812	5.813	-0.001	578129	0.0200	0.0140	
						RPD = 15.72	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

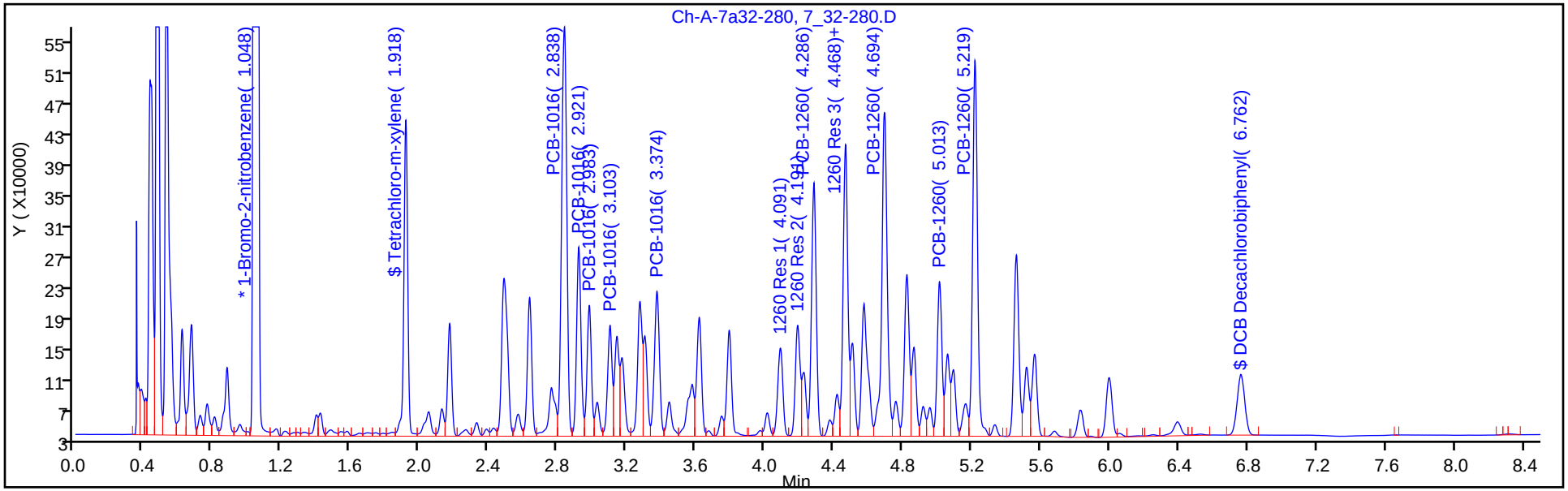
Report Date: 06-Dec-2018 09:25:54 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

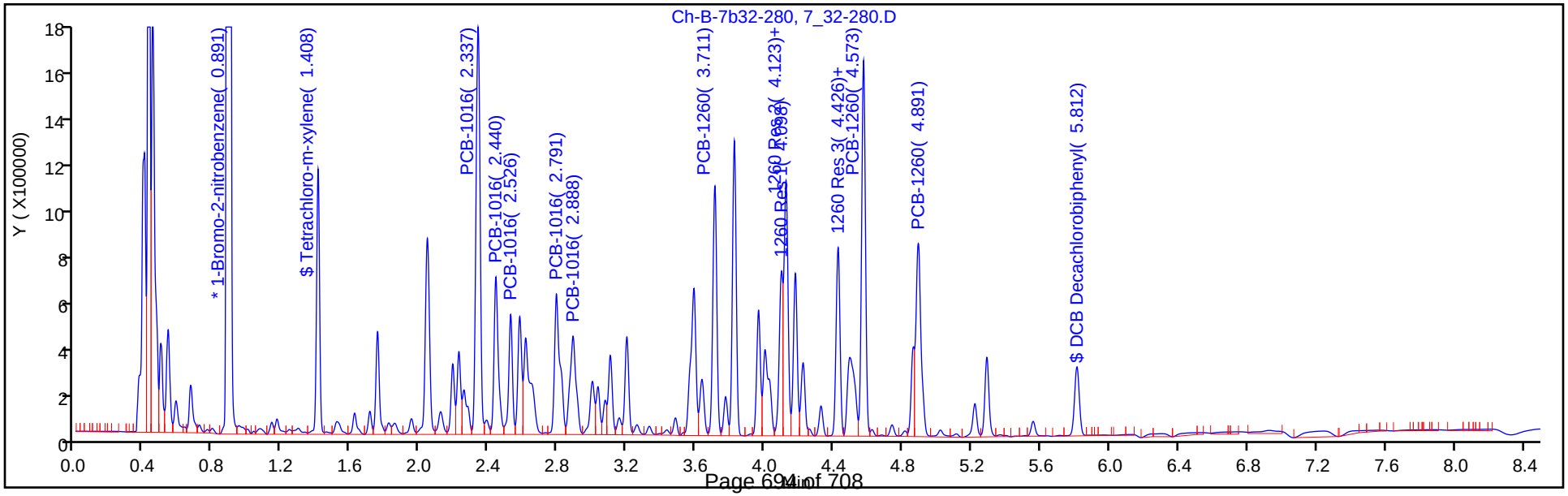
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-280.D

Injection Date:	05-Dec-2018 19:53:51	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-B-7-A MSD			Worklist Smp#:	14
Client ID:	MW-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-146076-1

SDG No.:

Client Sample ID: MW-8 MSD | Lab Sample ID: 480-146076-7 MSD

Matrix: Water | Lab File ID: 7_32-280.D

Analysis Method: 8082A | Date Collected: 11/29/2018 09:50

Extraction Method: 3510C | Date Extracted: 12/04/2018 14:36

Sample wt/vol: 250(mL) | Date Analyzed: 12/05/2018 19:53

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 449147 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	68		39-121
2051-24-3	DCB Decachlorobiphenyl	70		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-280.D
Lims ID: 480-146076-B-7-A MSD
Client ID: MW-8
Sample Type: MSD
Inject. Date: 05-Dec-2018 19:53:51 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 06-Dec-2018 09:25:35 Calib Date: 17-Sep-2018 16:57:59
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20180917-74716.b\7_26-062.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: CTX0327

First Level Reviewer: thongjanw Date: 06-Dec-2018 09:25:54

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	13330344	0.5000	0.5000	
2	0.891	0.892	-0.001	42081511	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.918	1.918	0.000	645498	0.0200	0.0199	
2	1.408	1.408	0.000	1389480	0.0200	0.0137	
						RPD = 37.19	
9 PCB-1016							
1	2.838	2.835	0.003	1123718	0.5000	0.3962	
1	2.921	2.919	0.002	443066	0.5000	0.4510	
1	2.983	2.981	0.001	303005	0.5000	0.4034	
1	3.103	3.102	0.000	261895	0.5000	0.4913	
1	3.374	3.373	0.001	388719	0.5000	0.4021	
		Average of Peak Amounts =				0.4288	
2	2.337	2.337	0.000	2928498	0.5000	0.3991	
2	2.440	2.439	0.001	1165229	0.5000	0.3467	
2	2.526	2.525	0.001	774410	0.5000	0.4321	
2	2.791	2.790	0.001	1329019	0.5000	0.3411	
2	2.888	2.888	0.000	1049454	0.5000	0.4124	
		Average of Peak Amounts =				0.3863	
						RPD = 10.43	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 1260 Res 1							
1	4.091	4.089	0.002	240645		NC	
2	4.098	4.098	-0.001	999538		NC	
4 1260 Res 2							
1	4.191	4.189	0.002	280946		NC	
2	4.123	4.125	-0.002	1781485		NC	
12 PCB-1260							
1	4.286	4.283	0.003	631983	0.5000	0.3668	
1	4.468	4.467	0.001	717896	0.5000	0.3719	
1	4.694	4.694	0.000	936072	0.5000	0.4206	
1	5.013	5.014	-0.001	382367	0.5000	0.3866	
1	5.219	5.218	0.001	959626	0.5000	0.4116	
		Average of Peak Amounts =				0.3915	
2	3.711	3.711	0.000	1709987	0.5000	0.3770	
2	4.123	4.125	-0.002	1781485	0.5000	0.3683	
2	4.426	4.427	-0.001	1276549	0.5000	0.3733	
2	4.573	4.575	-0.002	2480438	0.5000	0.3653	
2	4.891	4.893	-0.002	1719289	0.5000	0.3721	
		Average of Peak Amounts =				0.3712	
						RPD = 5.32	
3 1260 Res 3							
1	4.468	4.467	0.002	717896		NC	
2	4.426	4.427	-0.001	1276549		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.762	6.764	-0.002	244493	0.0200	0.0119	
2	5.812	5.813	-0.001	578129	0.0200	0.0140	
						RPD = 15.72	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

PCB IS 1B2NB_00052 Amount Added: 10.00 Units: uL Run Reagent

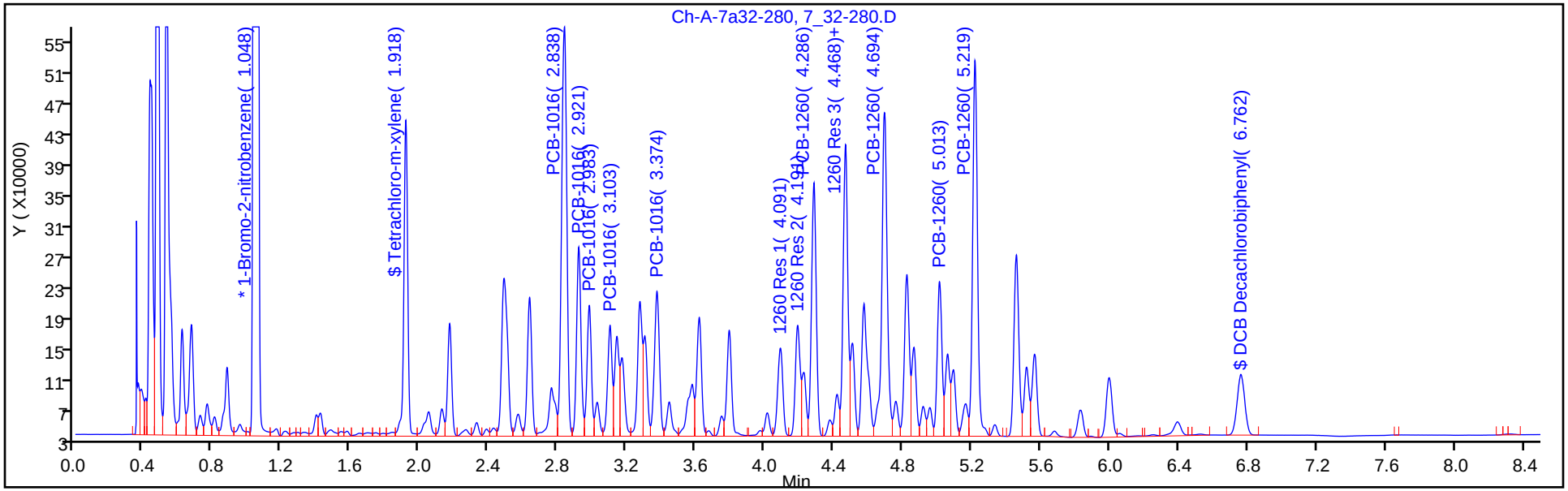
Report Date: 06-Dec-2018 09:25:55 Chrom Revision: 2.3 21-Nov-2018 13:56:44

TestAmerica Buffalo

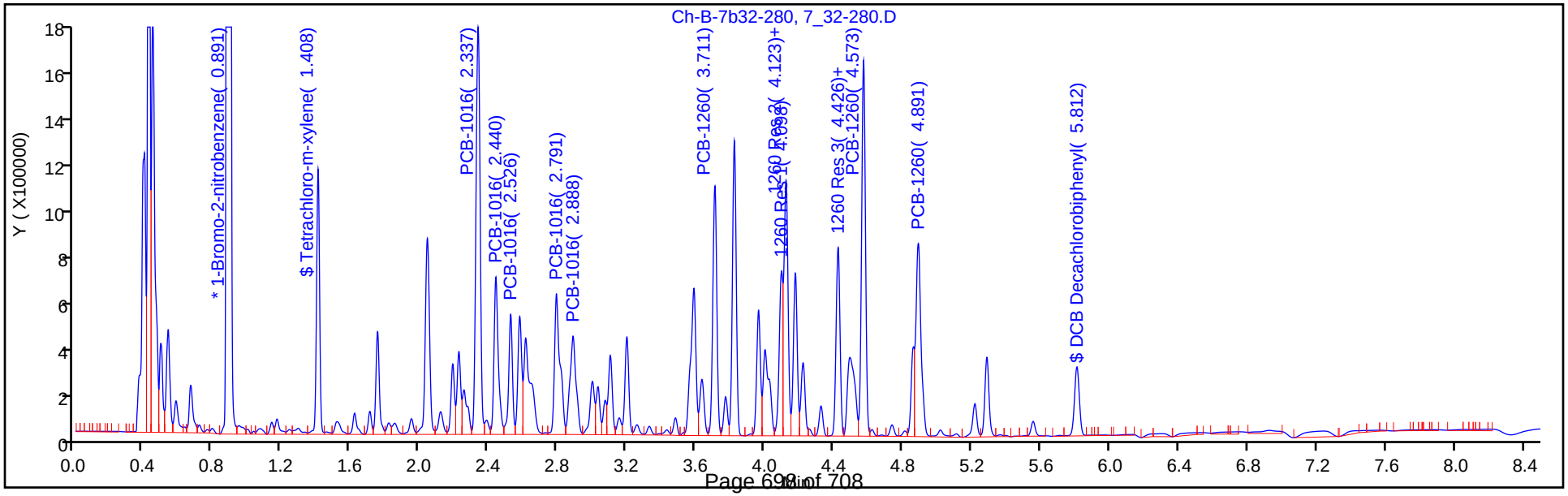
Data File: \\chromna\Buffalo\ChromData\HP6890-07\20181205-77009.b\7_32-280.D

Injection Date:	05-Dec-2018 19:53:51	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-146076-B-7-A MSD			Worklist Smp#:	14
Client ID:	MW-8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 05/07/2018 14:26

Analysis Batch Number: 413004 End Date: 05/07/2018 21:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-413004/4		05/07/2018 14:26	1	7_13-126.D	ZB-5 0.53(mm)
IC 480-413004/4		05/07/2018 14:26	1	7_13-126.D	ZB-35 0.53(mm)
IC 480-413004/5		05/07/2018 14:42	1	7_13-127.D	ZB-5 0.53(mm)
IC 480-413004/5		05/07/2018 14:42	1	7_13-127.D	ZB-35 0.53(mm)
ICIS 480-413004/6		05/07/2018 14:58	1	7_13-128.D	ZB-5 0.53(mm)
ICIS 480-413004/6		05/07/2018 14:58	1	7_13-128.D	ZB-35 0.53(mm)
IC 480-413004/7		05/07/2018 15:14	1	7_13-129.D	ZB-5 0.53(mm)
IC 480-413004/7		05/07/2018 15:14	1	7_13-129.D	ZB-35 0.53(mm)
IC 480-413004/8		05/07/2018 15:30	1	7_13-130.D	ZB-5 0.53(mm)
IC 480-413004/8		05/07/2018 15:30	1	7_13-130.D	ZB-35 0.53(mm)
IC 480-413004/9		05/07/2018 15:46	1	7_13-131.D	ZB-5 0.53(mm)
IC 480-413004/9		05/07/2018 15:46	1	7_13-131.D	ZB-35 0.53(mm)
IC 480-413004/10		05/07/2018 16:02	1	7_13-132.D	ZB-5 0.53(mm)
IC 480-413004/10		05/07/2018 16:02	1	7_13-132.D	ZB-35 0.53(mm)
ICV 480-413004/11		05/07/2018 16:18	1		ZB-5 0.53(mm)
ICV 480-413004/11		05/07/2018 16:18	1		ZB-35 0.53(mm)
CCV 480-413004/12		05/07/2018 16:34	1		ZB-5 0.53(mm)
CCV 480-413004/12		05/07/2018 16:34	1		ZB-35 0.53(mm)
ZZZZZ		05/07/2018 16:50	1		ZB-5 0.53(mm)
ZZZZZ		05/07/2018 16:50	1		ZB-35 0.53(mm)
ZZZZZ		05/07/2018 17:06	1		ZB-5 0.53(mm)
ZZZZZ		05/07/2018 17:06	1		ZB-35 0.53(mm)
CCVL 480-413004/15		05/07/2018 17:21	1		ZB-5 0.53(mm)
CCVL 480-413004/15		05/07/2018 17:21	1		ZB-35 0.53(mm)
IC 480-413004/16		05/07/2018 17:37	1	7_13-138.D	ZB-5 0.53(mm)
IC 480-413004/16		05/07/2018 17:37	1	7_13-138.D	ZB-35 0.53(mm)
IC 480-413004/17		05/07/2018 17:53	1	7_13-139.D	ZB-5 0.53(mm)
IC 480-413004/17		05/07/2018 17:53	1	7_13-139.D	ZB-35 0.53(mm)
IC 480-413004/18		05/07/2018 18:09	1	7_13-140.D	ZB-5 0.53(mm)
IC 480-413004/18		05/07/2018 18:09	1	7_13-140.D	ZB-35 0.53(mm)
ICV 480-413004/19		05/07/2018 18:25	1		ZB-5 0.53(mm)
ICV 480-413004/19		05/07/2018 18:25	1		ZB-35 0.53(mm)
IC 480-413004/20		05/07/2018 18:41	1	7_13-142.D	ZB-5 0.53(mm)
IC 480-413004/20		05/07/2018 18:41	1	7_13-142.D	ZB-35 0.53(mm)
IC 480-413004/21		05/07/2018 18:57	1	7_13-143.D	ZB-5 0.53(mm)
IC 480-413004/21		05/07/2018 18:57	1	7_13-143.D	ZB-35 0.53(mm)
IC 480-413004/22		05/07/2018 19:13	1	7_13-144.D	ZB-5 0.53(mm)
IC 480-413004/22		05/07/2018 19:13	1	7_13-144.D	ZB-35 0.53(mm)
ICV 480-413004/23		05/07/2018 19:29	1		ZB-5 0.53(mm)
ICV 480-413004/23		05/07/2018 19:29	1		ZB-35 0.53(mm)
IC 480-413004/24		05/07/2018 19:45	1	7_13-146.D	ZB-5 0.53(mm)
IC 480-413004/24		05/07/2018 19:45	1	7_13-146.D	ZB-35 0.53(mm)
IC 480-413004/25		05/07/2018 20:01	1	7_13-147.D	ZB-5 0.53(mm)
IC 480-413004/25		05/07/2018 20:01	1	7_13-147.D	ZB-35 0.53(mm)
IC 480-413004/26		05/07/2018 20:17	1	7_13-148.D	ZB-5 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 05/07/2018 14:26

Analysis Batch Number: 413004 End Date: 05/07/2018 21:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-413004/26		05/07/2018 20:17	1	7_13-148.D	ZB-35 0.53(mm)
ICV 480-413004/27		05/07/2018 20:33	1		ZB-5 0.53(mm)
ICV 480-413004/27		05/07/2018 20:33	1		ZB-35 0.53(mm)
IC 480-413004/28		05/07/2018 20:48	1	7_13-150.D	ZB-5 0.53(mm)
IC 480-413004/28		05/07/2018 20:48	1	7_13-150.D	ZB-35 0.53(mm)
IC 480-413004/29		05/07/2018 21:05	1	7_13-151.D	ZB-5 0.53(mm)
IC 480-413004/29		05/07/2018 21:05	1	7_13-151.D	ZB-35 0.53(mm)
IC 480-413004/30		05/07/2018 21:20	1	7_13-152.D	ZB-5 0.53(mm)
IC 480-413004/30		05/07/2018 21:20	1	7_13-152.D	ZB-35 0.53(mm)
ICV 480-413004/31		05/07/2018 21:36	1		ZB-5 0.53(mm)
ICV 480-413004/31		05/07/2018 21:36	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 09/17/2018 15:22

Analysis Batch Number: 434717 End Date: 09/17/2018 16:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-434717/11		09/17/2018 15:22	1	7_26-056.D	ZB-5 0.53(mm)
IC 480-434717/11		09/17/2018 15:22	1	7_26-056.D	ZB-35 0.53(mm)
IC 480-434717/12		09/17/2018 15:38	1	7_26-057.D	ZB-5 0.53(mm)
IC 480-434717/12		09/17/2018 15:38	1	7_26-057.D	ZB-35 0.53(mm)
IC 480-434717/13		09/17/2018 15:53	1	7_26-058.D	ZB-5 0.53(mm)
IC 480-434717/13		09/17/2018 15:53	1	7_26-058.D	ZB-35 0.53(mm)
IC 480-434717/14		09/17/2018 16:09	1	7_26-059.D	ZB-5 0.53(mm)
IC 480-434717/14		09/17/2018 16:09	1	7_26-059.D	ZB-35 0.53(mm)
IC 480-434717/15		09/17/2018 16:26	1	7_26-060.D	ZB-5 0.53(mm)
IC 480-434717/15		09/17/2018 16:26	1	7_26-060.D	ZB-35 0.53(mm)
IC 480-434717/16		09/17/2018 16:42	1	7_26-061.D	ZB-5 0.53(mm)
IC 480-434717/16		09/17/2018 16:42	1	7_26-061.D	ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 12/05/2018 12:32

Analysis Batch Number: 449147 End Date: 12/06/2018 05:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 480-449147/5		12/05/2018 12:32	1	7_32-271.D	ZB-5 0.53(mm)
CCVIS 480-449147/5		12/05/2018 12:32	1	7_32-271.D	ZB-35 0.53(mm)
CCV 480-449147/6		12/05/2018 12:47	1	7_32-272.D	ZB-5 0.53(mm)
CCV 480-449147/6		12/05/2018 12:47	1	7_32-272.D	ZB-35 0.53(mm)
CCV 480-449147/7		12/05/2018 13:03	1	7_32-273.D	ZB-5 0.53(mm)
CCV 480-449147/7		12/05/2018 13:03	1	7_32-273.D	ZB-35 0.53(mm)
CCV 480-449147/8		12/05/2018 13:19	1	7_32-274.D	ZB-5 0.53(mm)
CCV 480-449147/8		12/05/2018 13:19	1	7_32-274.D	ZB-35 0.53(mm)
CCV 480-449147/9		12/05/2018 13:35	1	7_32-275.D	ZB-5 0.53(mm)
CCV 480-449147/9		12/05/2018 13:35	1	7_32-275.D	ZB-35 0.53(mm)
MB 480-448984/1-A		12/05/2018 19:06	1	7_32-277.D	ZB-5 0.53(mm)
MB 480-448984/1-A		12/05/2018 19:06	1	7_32-277.D	ZB-35 0.53(mm)
LCS 480-448984/2-A		12/05/2018 19:22	1	7_32-278.D	ZB-5 0.53(mm)
LCS 480-448984/2-A		12/05/2018 19:22	1	7_32-278.D	ZB-35 0.53(mm)
480-146076-7 MS		12/05/2018 19:37	1	7_32-279.D	ZB-5 0.53(mm)
480-146076-7 MS		12/05/2018 19:37	1	7_32-279.D	ZB-35 0.53(mm)
480-146076-7 MSD		12/05/2018 19:53	1	7_32-280.D	ZB-5 0.53(mm)
480-146076-7 MSD		12/05/2018 19:53	1	7_32-280.D	ZB-35 0.53(mm)
480-146076-7		12/05/2018 20:09	1	7_32-281.D	ZB-5 0.53(mm)
480-146076-7		12/05/2018 20:09	1	7_32-281.D	ZB-35 0.53(mm)
ZZZZZ		12/05/2018 20:25	20		ZB-5 0.53(mm)
ZZZZZ		12/05/2018 20:25	20		ZB-35 0.53(mm)
ZZZZZ		12/05/2018 20:41	10		ZB-5 0.53(mm)
ZZZZZ		12/05/2018 20:41	10		ZB-35 0.53(mm)
480-146076-1		12/05/2018 20:57	1	7_32-284.D	ZB-5 0.53(mm)
480-146076-1		12/05/2018 20:57	1	7_32-284.D	ZB-35 0.53(mm)
480-146076-2		12/05/2018 21:13	1	7_32-285.D	ZB-5 0.53(mm)
480-146076-2		12/05/2018 21:13	1	7_32-285.D	ZB-35 0.53(mm)
480-146076-3		12/05/2018 21:29	1	7_32-286.D	ZB-5 0.53(mm)
480-146076-3		12/05/2018 21:29	1	7_32-286.D	ZB-35 0.53(mm)
480-146076-5		12/05/2018 21:45	1	7_32-287.D	ZB-5 0.53(mm)
480-146076-5		12/05/2018 21:45	1	7_32-287.D	ZB-35 0.53(mm)
480-146076-6		12/05/2018 22:01	1	7_32-288.D	ZB-5 0.53(mm)
480-146076-6		12/05/2018 22:01	1	7_32-288.D	ZB-35 0.53(mm)
480-146076-8		12/05/2018 22:17	1	7_32-289.D	ZB-5 0.53(mm)
480-146076-8		12/05/2018 22:17	1	7_32-289.D	ZB-35 0.53(mm)
ZZZZZ		12/05/2018 22:33	1		ZB-5 0.53(mm)
ZZZZZ		12/05/2018 22:33	1		ZB-35 0.53(mm)
ZZZZZ		12/05/2018 22:49	1		ZB-5 0.53(mm)
ZZZZZ		12/05/2018 22:49	1		ZB-35 0.53(mm)
ZZZZZ		12/05/2018 23:05	1		ZB-5 0.53(mm)
ZZZZZ		12/05/2018 23:05	1		ZB-35 0.53(mm)
ZZZZZ		12/05/2018 23:21	1		ZB-5 0.53(mm)
ZZZZZ		12/05/2018 23:21	1		ZB-35 0.53(mm)
ZZZZZ		12/05/2018 23:37	1		ZB-5 0.53(mm)

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PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 12/05/2018 12:32

Analysis Batch Number: 449147 End Date: 12/06/2018 05:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/05/2018 23:37	1		ZB-35 0.53(mm)
ZZZZZ		12/05/2018 23:53	1		ZB-5 0.53(mm)
ZZZZZ		12/05/2018 23:53	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 00:09	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 00:09	1		ZB-35 0.53(mm)
CCV 480-449147/31		12/06/2018 00:25	1	7_32-297.D	ZB-5 0.53(mm)
CCV 480-449147/31		12/06/2018 00:25	1	7_32-297.D	ZB-35 0.53(mm)
ZZZZZ		12/06/2018 00:56	2		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 00:56	2		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 01:12	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 01:12	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 01:28	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 01:28	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 01:44	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 01:44	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 02:00	2		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 02:00	2		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 02:16	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 02:16	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 02:32	10		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 02:32	10		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 02:48	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 02:48	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 03:04	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 03:04	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 03:20	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 03:20	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 03:36	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 03:36	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 03:52	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 03:52	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 04:08	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 04:08	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 04:23	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 04:23	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 04:39	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 04:39	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 04:55	1		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 04:55	1		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 05:11	1000		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 05:11	1000		ZB-35 0.53(mm)
ZZZZZ		12/06/2018 05:27	10000		ZB-5 0.53(mm)
ZZZZZ		12/06/2018 05:27	10000		ZB-35 0.53(mm)

8082A

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Batch Number: 448984 Batch Start Date: 12/04/18 14:36 Batch Analyst: Pulera, Andrew A

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	O_608PCBSpike 00016	O_PCBLLsurr 00051	
MB 480-448984/1		3510C, 8082A		250 mL	2 mL	7 SU		1 mL	
LCS 480-448984/2		3510C, 8082A		250 mL	2 mL	7 SU	1 mL	1 mL	
480-146076-A-7 MS	MW-8	3510C, 8082A	T	250 mL	2 mL	7 SU	1 mL	1 mL	
480-146076-B-7 MSD	MW-8	3510C, 8082A	T	250 mL	2 mL	7 SU	1 mL	1 mL	
480-146076-B-7	MW-8	3510C, 8082A	T	250 mL	2 mL	7 SU		1 mL	
480-146076-A-1	MW-5R	3510C, 8082A	T	250 mL	2 mL	7 SU		1 mL	
480-146076-B-2	MW-2R	3510C, 8082A	T	250 mL	2 mL	7 SU		1 mL	
480-146076-B-3	MW-7	3510C, 8082A	T	250 mL	2 mL	7 SU		1 mL	
480-146076-A-5	MW-4	3510C, 8082A	T	250 mL	2 mL	7 SU		1 mL	
480-146076-A-6	MW-6	3510C, 8082A	T	250 mL	2 mL	7 SU		1 mL	
480-146076-B-8	DUP-112918	3510C, 8082A	T	250 mL	2 mL	7 SU		1 mL	

Batch Notes	
Acid used for Clean Up ID	Sulfuric: 4921000
Analyst ID - Concentration	AP, AG
Analyst ID - Clean Up	AP 12/4/18
Exchange Solvent ID	4924789
Analyst ID - Extraction	AP
Glass Wool ID	244155999
Method/Fraction	3510C_LVI_1YR/8082A
Na2SO4 ID	4895627
Prep Solvent ID	5034496
Prep Solvent Volume Used	60 mL
Analyst ID - Spike Analyst	AP
Analyst ID - Spike Witness Analyst	AP
Sufficient Volume for Batch QC	Yes
Vial Lot Number	1609411071

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-146076-1

SDG No.:

Batch Number: 448984 Batch Start Date: 12/04/18 14:36 Batch Analyst: Pulera, Andrew A

Batch Method: 3510C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record 306538

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: David Cornell	Site Contact: Matthew Keeney	Date: 11/29/18	COC No:
Company Name: Arcadis	Tel/Fax: (315) 439-6222	Lab Contact: M. Deyo	Carrier: –	1 of 1 COCs
Address: 50 Fountain Plaza	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo, NY 14202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only
Phone: 716-625-7056	TAT if different from Below Standard			Walk-in Client:
Fax: –	☐ 2 weeks			Lab Sampling:
Project Name: GE Groundwater Analysis	☐ 1 week			
Site: GE Tonawanda Parts and Repair Service Center	☐ 2 days			Job / SDG No.:
P O # AP013103.0004	☐ 1 day			17567

480-146076 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8082A - PCB's	8260C - TCL VOA's	Sample Specific Notes:
MW-5R	11/28/18	1205	G	GW	5	N	N	X	X	
MW-2R	11/28/18	1340	G	GW	5	N	N	X	X	
MW-7	11/29/18	1300	G	GW	5	N	N	X	X	
MW-8	11/29/18	0940	G	GW	5	N	N	X	X	
MW-4	11/29/18	1110	G	GW	5	N	N	X	X	
MW-6	11/29/18	1415	G	GW	5	N	N	X	X	
MW-8 (MS/MSD)	11/29/18	0950	G	GW	10	N	N	X	X	
DUP-112918	11/29/18	[redacted]	G	GW	5	N	N	X	X	
Trip Blank	11/29/18	–	–		4	N	N	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 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

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

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.9 Corr'd: _____ | Therm ID No.: 1

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Matthew K	Arcadis	[redacted]		TA	11/30/18 0810
Relinquished by:	Company:	Date/Time: 11/30/18 0810	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-146076-1

Login Number: 146076
List Number: 1
Creator: Kinecki, Kenneth P

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ARCADIS Design & Consultancy for natural and built assets

Arcadis of New York, Inc.

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