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Subject:

2016 Annual Groundwater Monitoring Report
GE Parts and Repair Service Center
Tonawanda, New York 14150
NYSDEC Site ID: 915244
EPA ID: NYD067539940
Permit ID: 9-1464-00044/00001

ENVIRONMENT

Date:

February 28, 2017

Contact:

Doug Weeks

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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 2016 Annual Groundwater Monitoring Report for the GE Parts and Repair Service Center in Tonawanda, New York. The report provides the results of the monitoring well installation and groundwater sampling activities conducted at the site in the fall of 2016 in accordance with the NYSDEC-approved Groundwater Monitoring Plan.

If you have any questions, please contact me at (518) 250-7378, or Mr. Lewis Streeter of GE at (518) 862-2712.

Sincerely,

Arcadis of New York, Inc.



Doug Weeks
Project Manager

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Ron Riggs, GE

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General Electric Company

2016 ANNUAL GROUNDWATER MONITORING REPORT

NYSDEC SITE NUMBER: 915244

USEPA ID#: NYD067539940

February 2017

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It is composed of two overlapping triangles, creating a complex, angular form. A thin white line runs diagonally through the shape, and a horizontal white line intersects it near the bottom.

2016 ANNUAL GROUNDWATER MONITORING REPORT

Prepared for:

General Electric Company
Tonawanda, New York

Prepared by:

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ACRONYMS AND ABBREVIATIONS

AMSL	above mean sea level
Arcadis	Arcadis of New York, Inc.
bgs	below ground surface
CMS	Corrective Measures Study
DUSR	Data Usability Summary Report
GE	General Electric Company
GMP	Groundwater Monitoring Plan
GWMR	Groundwater Monitoring Report
mg/kg	milligram per kilogram
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
OWS	Oil Water Separator
PCB	polychlorinated biphenyl
pH	potential hydrogen
PVC	polyvinyl chloride
QA	Quality Assurance
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
SOP	Standard Operating Procedure
TOGS	Technical and Operational Guidance Series
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound
µg/L	micrograms per liter

1 INTRODUCTION

This 2016 Annual Groundwater Monitoring Report (GWMR) has been prepared by Arcadis of New York, Inc., (Arcadis) on behalf of the General Electric Company (GE), for GE's Parts and Repair Service Center located at 175 Milens Road in Tonawanda, New York (hereinafter referred to as the "site"), as shown on Figure 1. The site layout and boundaries are shown on Figure 2.

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 for the site (373 Permit) to allow storage of hazardous wastes that contained volatile organic compounds (VOCs), metals, and polychlorinated biphenyls (PCBs). There has been no treatment or disposal of hazardous or solid wastes at the site. The permit required a RCRA Facility Assessment (RFA), RCRA Facility Investigation (RFI), and a Corrective Measures Study (CMS). The current 373 Permit, issued July 5, 2012 (Permit ID 9-1464-00044/00001), required GE to perform certain corrective measures at the site, which included soil excavation, removal of the 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. This work was completed in Fall 2015 and is documented in the Corrective Measure Completion Report (AECOM 2016).

The Groundwater Monitoring Plan (GMP), which was approved by NYSDEC on October 5, 2016, describes the measures for conducting, evaluating, and reporting the results of groundwater monitoring to be conducted at the site. In fall 2016, groundwater monitoring well installation, sampling, and analysis was performed as described in the GMP. These activities are described in the remaining portions of this report.

2 SITE DESCRIPTION AND MONITORING PROGRAM OBJECTIVES

2.1 Site Location and Description

The site is located on an approximately 5.83-acre parcel at 175 Milens Road in the Town of Tonawanda, Erie County, New York (Figure 1). The site is secured with a chain link fence and gate, and is improved with a 69,000-square-foot, slab-on-grade building. 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 land owned by Lamar Advertising, which maintains an advertising billboard on its property. The east and south sides of the site are bounded by property owned by DKP Buffalo, LLC. The west side of the site is bounded by Milens Road and property owned by Coca-Cola Company. These adjacent properties are shown on Figure 2.

2.1.1 Land Use

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 Polychlorinated Biphenyl (PCB) Storage Area, which was inside the southeast corner of the building. These storage areas are inactive, have been closed, and specific remedial measures for the storage areas are not necessary. The site features are illustrated on Figure 3.

2.1.2 Geology and Hydrogeology

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. There are isolated areas of fill, which may contain perched groundwater. Shallow perched groundwater at the site is approximately 6 to 9 feet below ground surface (bgs). The unsaturated zone extends to at least 15 feet bgs in native soils. The depth to groundwater in native soils is approximately 25 feet.

2.2 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 GMP describes the measures for conducting, evaluating, and reporting the results of groundwater monitoring conducted at the site.

3 MONITORING WELL INSTALLATION

As described in the GMP, several monitoring wells were installed in November 2016 to assess groundwater conditions within the site. This section describes the well installation activities, which included utility clearance, installation and development, and survey to document locations and elevation information.

3.1 Utility Clearance

Prior to the start of any intrusive work, Dig Safely New York was called for a right-of-way sub-surface utilities mark-out for lines entering the property. In addition, site utility drawings were reviewed and Arcadis conducted geophysical clearance using ground penetrating radar and radiofrequency detection equipment. Soft dig techniques were also used for utility clearance, including utility-vac and hand-auger clearance to 5 feet bgs or tool refusal. As noted in an e-mail correspondence to NYSDEC on November 4, 2016, the location of monitoring well MW-7 was adjusted from its original proposed location to avoid utilities in the area.

3.2 Monitoring Well Installation

Five monitoring wells were installed at the site between November 2 and 7, 2016. As noted in the GMP, MW-5R was installed to replace former monitoring well MW-5, which was decommissioned prior to excavation of PCB-impacted soils. MW-2R was installed on the east side of the building near the former rinse water tank excavation (in the vicinity of the former monitoring wells MW-2 and MW-3) and was screened within the fill zone. MW-6 and MW-7 were installed near the northwest and southwest corners of the building. Lastly, MW-8 was installed south of the building in the Transportation Corridor.

All wells were installed using 4¼-inch inner-diameter hollow stem augers with a center plug. Direct push Macrocore™ soil samples were collected from each well and the stratigraphy of the borehole was recorded. All monitoring wells were constructed of 2-inch diameter, Schedule 40, flush-threaded, PVC casing and matching factory-slot PVC well screen. A screen slot size of 0.010 inch and a sand pack size of Morie No. 0 was used for well construction.

All monitoring wells with the exception of MW-6 were completed with an 8-inch bolting cemented in place flush mount protective casing. MW-6 was fitted with a 4-inch steel stickup protective casing to a height of approximately 3 feet above ground surface with the inner PVC well casing extending approximately 2.5 feet above the ground surface. All completions were set in an approximate 2-foot by 2-foot by 4-inch deep concrete pad.

Well construction details and geological logging information is provided on the Monitoring Well Logs located in Attachment A.

3.3 Well Development

Each newly installed monitoring well was developed to remove introduced drilling fluids and fine-grained soils produced during the drilling process, with the intent to improve the hydraulic connection between the formation and the well screen. Well development was performed from November 15 to 16, 2016. A

centrifugal pump and peristaltic pump capable of varying flow rates was used for development at each of the locations. When pumping was unable to be utilized due to low recovery rates at MW-7, a manual bailer was used to surge the screen zone. Each well was developed until either the well went dry or the purge water was reading 50 nephelometric turbidity units or less. In addition to the new monitoring wells, MW-4 was also redeveloped as the monitoring well protective casing appeared to be loose during an initial site inspection.

3.4 Monitoring Well Survey

The monitoring well locations were surveyed by a New York State-licensed surveyor on November 23, 2016. This survey included the horizontal northing and easting to the nearest 0.01-foot relative to the North American Datum 1983. Additionally, 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. The applicable survey information can be found on Table 1.

4 GROUNDWATER SAMPLING AND ANALYSES

Groundwater sampling was performed to verify that groundwater underlying the site continues to remain unimpacted by historical site activities. As requested by NYSDEC, groundwater sampling will be performed semi-annually for three consecutive events --- fall 2016 and the spring and fall of 2017 (spaced approximately six months apart), and then annually from 2018 through 2020.

The following subsections detail the activities completed in fall 2016 relating to the collection and analysis of groundwater samples.

4.1 Groundwater Elevation Monitoring

Groundwater elevations associated with the fall 2016 monitoring event were collected on November 22 and 23, 2016, and are provided in Table 2. Variations in sub-surface conditions and/or the glacial till interface are present throughout the site, including a non-continuous porous layer at varying depths. The resulting geology lead to perched water zones that present significant variations in groundwater elevations around the site. These variations are demonstrated when comparing groundwater elevations on Table 2 that show elevation 586.34' above mean sea level (AMSL) at MW-7, and elevation 602.51' AMSL at MW-4.

4.2 Groundwater Sample Collection and Analysis

Samples were collected on November 22 and 23, 2016 from six (6) monitoring wells --- MW-2R, MW-4, MW-5R, MW-6, MW-7 and MW-8 and submitted to TestAmerica Laboratory, located in Amherst, New York, for laboratory analysis of VOCs via United States Environmental Protection Agency (USEPA) Method 8260C and PCBs via USEPA Method 8082A.

Prior to sample collection, all monitoring wells were purged using a low-flow pumping technique via a peristaltic pump. The sample tubing inlet was set at the midpoint of the saturated portion of the well screen. Pumping rates were set between 0.1 to 0.5 liter per minute to minimize drawdown in the well. Depth to water measurements were recorded at frequent intervals to identify changes in water level and excessive drawdown. The sample tubing inlet was subsequently lowered in wells that experienced excessive drawdown during purging. Groundwater monitoring equipment was cleaned and calibrated per the requirements outlined in the GMP prior to use each day. Field parameters (i.e., potential hydrogen [pH], temperature, specific conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential) were recorded using a multi-parameter meter with a flow cell. As presented in Attachment B, the field parameters, turbidity, purging flow rate, and depth to water were recorded at approximately five-minute intervals. 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. Analytical 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 collected during the fall 2016 sampling event and included a blind Field Duplicate, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair, and a trip blank.

4.3 Data Management

The fall 2016 groundwater data were validated per the (USEPA) Region 2 Standard Operating Procedures (SOPs) applicable to the analytical method(s) being reviewed. The use of the USEPA SOPs was adapted to conform to the specific requirements of the NYSDEC Analytical Services Protocol holding times and MS blank requirements.

The Data Usability Summary Report (DUSR) and lab report are presented in Attachments C and D, respectively. The DUSR includes text results and marked-up results with qualifiers where applied by the validator. 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 and were documented in the applicable text. 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 groundwater data have been compiled in the EQulS database format to fulfill the requirements of the submittals in a NYSDEC-approved Electronic Data Deliverable format. This information will be submitted digitally to NYSDEC.

As presented in Appendix C, all of the fall 2016 groundwater quality data are considered to be useable.

5 ASSESSMENT OF GROUNDWATER QUALITY

Sample data from the fall 2016 monitoring event were compared to the NYSDEC Technical & Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (NYSDEC 2004). There were only three compounds detected: bromodichloromethane, bromomethane and chloroform. Both Bromodichloromethane and chloroform were detected at MW-2R with an estimated concentration of 0.50 J micrograms per liter ($\mu\text{g/L}$) and 1.2 $\mu\text{g/L}$, respectively. The TOGS guidance values for these compounds are 50 $\mu\text{g/L}$ and 7 $\mu\text{g/L}$, respectively. Bromomethane was detected only at MW-8 at an estimated concentration of 1 $\mu\text{g/L}$. The guidance value for bromomethane is 5 $\mu\text{g/L}$. These results confirm that the site groundwater continues to be unimpacted by the historical site operations.

The next sampling event is planned for April/May 2017. No changes to the sampling program are proposed at this time. Prior to performance of these field activities, GE will provide NYSDEC with a minimum 7-day advance notice.

In accordance with the NYSDEC-approved reporting schedule for this monitoring program, GE will submit the next GWMR by March 1, 2018 to present the results of groundwater monitoring conducted in 2017. The report will present the final validated data from both the spring and fall 2017 sampling events, and a discussion of the results, including evaluations of the current data and any proposals to modify the monitoring program, if appropriate.

6 REFERENCES

- AECOM. 2016. Corrective Measure Completion Final Report, GE Parts and Repair Service Center, Tonawanda, New York. June.
- New York State Department of Environmental Conservation (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.
- NYSDEC. 2012. Permit Renewal, General Electric International, Inc., Facility DEC ID 9-1464-00044. July.

TABLES



Table 1
Monitoring Well Construction Summary
2016 Annual Groundwater Monitoring Report
GE Parts and Repair Service Center
General Electric Company - 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
Groundwater Elevation Data - Fall 2016 Groundwater Monitoring
2016 Annual Groundwater Monitoring Report
GE Parts and Repair Service Center
General Electric Company - Tonawanda, New York

Well Number	Date	Measuring Point Elevation (Feet AMSL)	Depth to Water (Feet BMP)	Groundwater Elevation (Feet AMSL)
MW-2R	11/23/2016	610.49	8.14	602.35
MW-4	11/22/2016	610.56	8.05	602.51
MW-5R	11/22/2016	610.84	15.89	594.95
MW-6	11/22/2016	614.79	9.41	605.38
MW-7	11/22/2016	612.08	25.74	586.34
MW-8	11/23/2016	611.04	17.09	593.95

Notes:

1. AMSL - Above Mean Sea Level.
2. BMP - Below Measuring Point.

Table 3
Field Parameter Measurements - Fall 2016
2016 Annual Groundwater Monitoring Report
GE Parts and Repair Service Center
General Electric Company - 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	13.65	7.35	1.070	1.48	4.76	306.8
MW-4	15.16	7.66	1.215	11.04	5.01	423.9
MW-5R	12.36	7.55	1.190	1.95	4.27	276.7
MW-6	10.70	7.29	1.194	2.71	3.85	277.7
MW-7	9.75	7.60	0.763	3.79	3.68	276.4
MW-8	12.31	7.62	0.903	45.50	3.55	415.1

Note:

1. The value presented is the last set of parameters collected prior to sampling or well going dry.

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

Location ID: Date Collected: Sample Name:	CAS Number	NYSDEC TOGS 1.1.1 Water Guidance Values	MW-2R 11/23/16 MW-2R 11232016	MW-4 11/22/16 MW-4 11222016	MW-5R 11/22/16 MW-5R 11222016	MW-6 11/22/16 MW-6 11222016	MW-7 11/23/16 MW-7 11232016	MW-8 11/23/16 MW-8 11232016
PCBs (ug/L)								
Aroclor 1016	12674-11-2	0.09	0.61 U	0.48 U [0.48 U]	0.47 U	0.49 U	0.49 U	0.48 U
Aroclor 1221	11104-28-2	0.09	0.61 U	0.48 U [0.48 U]	0.47 U	0.49 U	0.49 U	0.48 U
Aroclor 1232	11141-16-5	0.09	0.61 U	0.48 U [0.48 U]	0.47 U	0.49 U	0.49 U	0.48 U
Aroclor 1242	53469-21-9	0.09	0.61 U	0.48 U [0.48 U]	0.47 U	0.49 U	0.49 U	0.48 U
Aroclor 1248	12672-29-6	0.09	0.61 U	0.48 U [0.48 U]	0.47 U	0.49 U	0.49 U	0.48 U
Aroclor 1254	11097-69-1	0.09	0.61 U	0.48 U [0.48 U]	0.47 U	0.49 U	0.49 U	0.48 U
Aroclor 1260	11096-82-5	0.09	0.61 U	0.48 U [0.48 U]	0.47 U	0.49 U	0.49 U	0.48 U
Volatile Organics (ug/L)								
1,1,1-Trichloroethane	71-55-6	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroeth	76-13-1	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	79-00-5	1	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	75-34-3	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	75-35-4	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	120-82-1	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	106-93-4	0.0006	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	95-50-1	3	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	107-06-2	0.6	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	78-87-5	1	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	541-73-1	3	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	106-46-7	3	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	78-93-3	50	10 U	10 U [10 U]	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	108-10-1	--	5.0 U	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	67-64-1	50	10 U	10 U [10 U]	10 U	10 U	10 U	10 U
Bromodichloromethane	75-27-4	50	0.50 J	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	75-25-2	50	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	74-83-9	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon Disulfide	75-15-0	60	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	56-23-5	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
CFC-11	75-69-4	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
CFC-12	75-71-8	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	108-90-7	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	124-48-1	50	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	75-00-3	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	67-66-3	7	1.2	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	74-87-3	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	156-59-2	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	110-82-7	--	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Dichloromethane	75-09-2	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	98-82-8	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	79-20-9	--	2.5 U	2.5 U [2.5 U]	2.5 U	2.5 U	2.5 U	2.5 U
Methyl N-Butyl Ketone (2-Hexa	591-78-6	50	5.0 U	5.0 U [5 U]	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	108-87-2	--	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Styrene (Monomer)	100-42-5	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	127-18-4	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	156-60-5	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	79-01-6	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U

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

Location ID: Date Collected: Sample Name:	CAS Number	NYSDEC TOGS 1.1.1 Water Guidance Values	MW-2R 11/23/16 MW-2R 11232016	MW-4 11/22/16 MW-4 11222016	MW-5R 11/22/16 MW-5R 11222016	MW-6 11/22/16 MW-6 11222016	MW-7 11/23/16 MW-7 11232016	MW-8 11/23/16 MW-8 11232016
Vinyl chloride	75-01-4	2	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	71-43-2	1	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	108-88-3	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	100-41-4	5	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	1330-20-7	5	2.0 U	2.0 U [2 U]	2.0 U	2.0 U	2.0 U	2.0 U
Methyl-tert-butylether	1634-04-4	10	1.0 U	1.0 U [1 U]	1.0 U	1.0 U	1.0 U	1.0 U

Notes:

1. Samples were collected by Arcadis and submitted to TestAmerica Lab for laboratory analysis.
2. ug/L = micrograms per liter or parts per billion.
3. Field duplicate sample results are presented in brackets.
4. **Bold** indicates detected constituents.

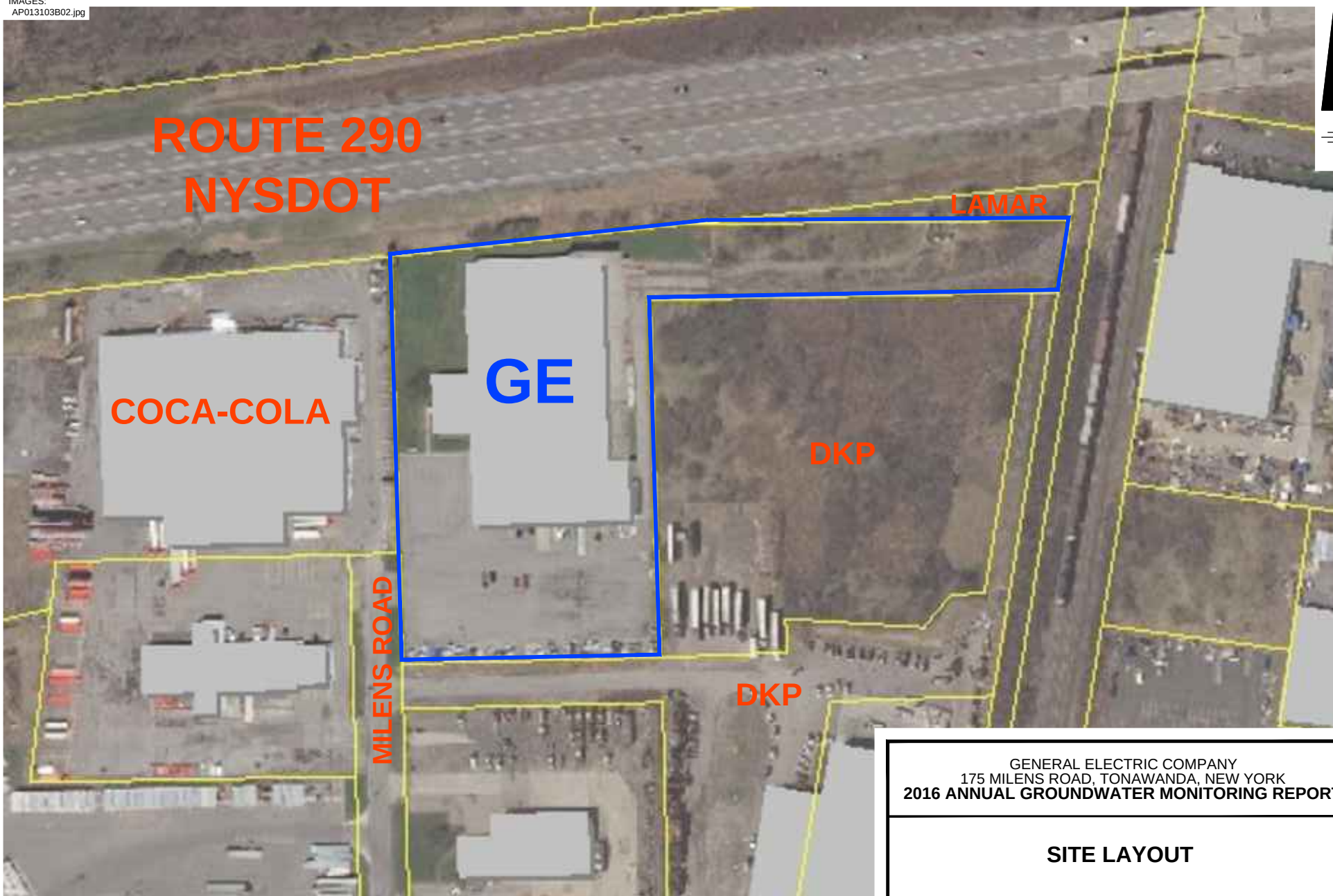
Data Qualifiers:

- J - Indicates an estimated value.
 U - The compound was analyzed for but not detected. The associated value is the compound reporting limit.
 UJ - The compound was not detected above the reported sample reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

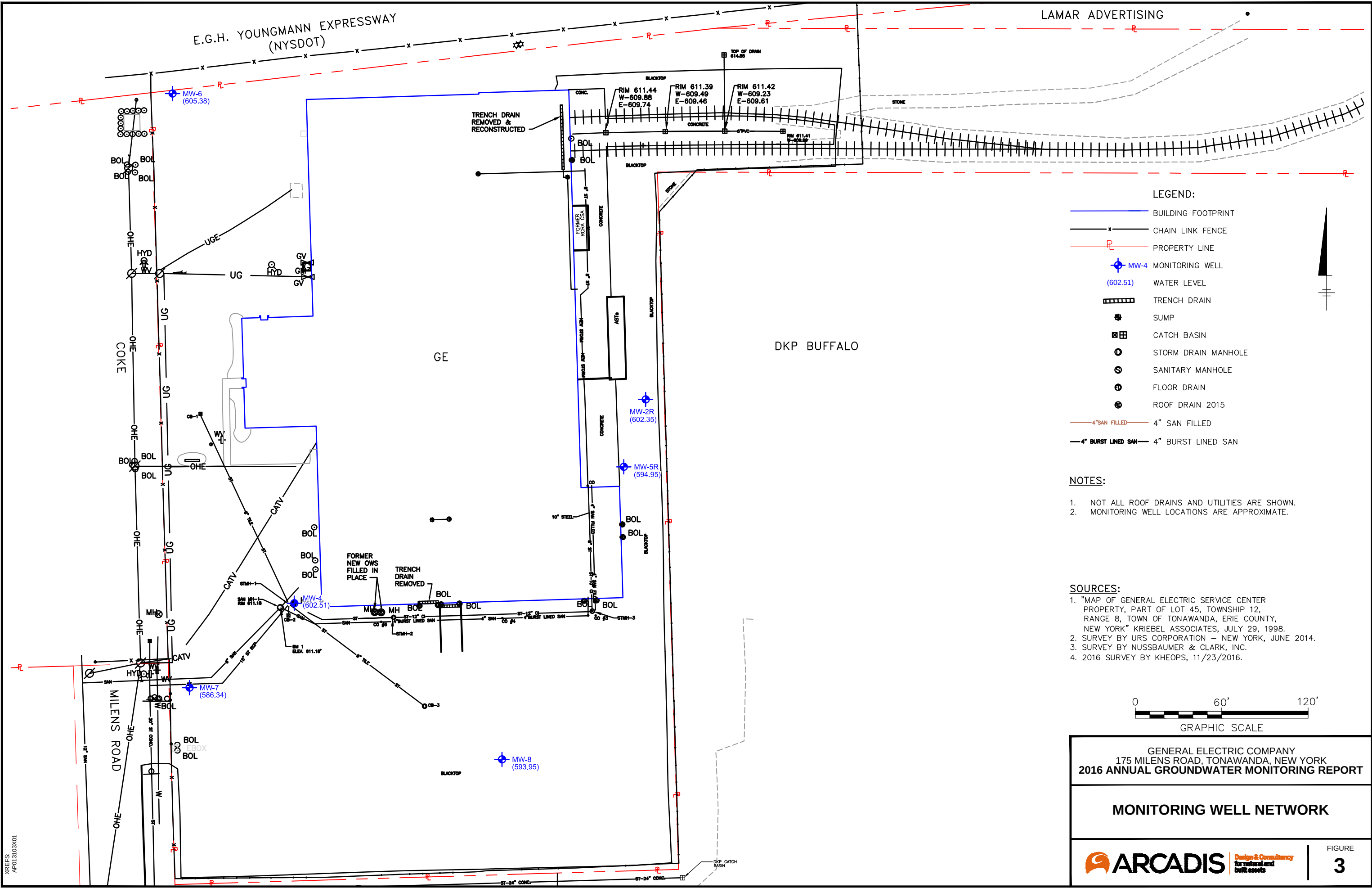
FIGURES



IMAGES:
AP013103B02.jpg



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

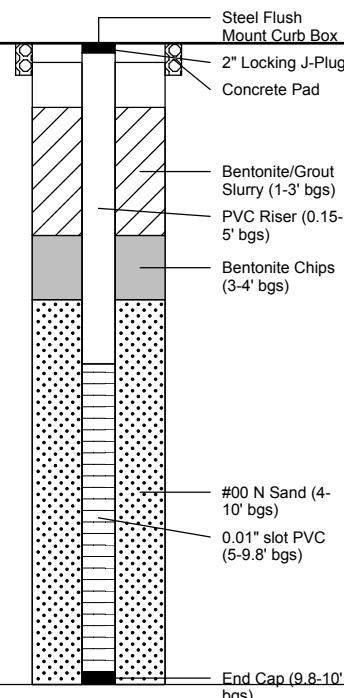


APPENDIX A

Monitoring Well Construction Logs

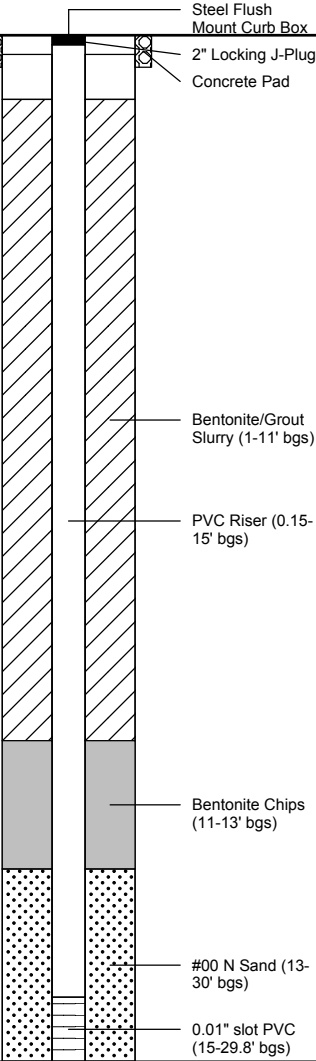
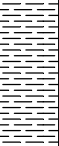


Date Start/Finish: 11/4/16 Drilling Company: Nothnagle Driller's Name: Thom M. Drilling Method: Rotary/HSA Sampling Method: 4' Macro Core w/ Acetate Liner Rig Type: Model CME-55LC Auger Size: 8"	Northing: 1090751.01 Easting: 1066816.66 Casing Elevation: 610.49' AMSL Borehole Depth: 10' bgs Surface Elevation: 610.99' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-2R Client: GE Parts & Repair Service Center Location: 175 Milens Rd Tonawanda, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	610						Asphalt	
		HC	NA	HC	NA		(Hand Cleared) #2 Crush Run	
							(Hand Cleared) Reddish brown, CLAY;	
5	605	S1	NA	44"	0.0		(Hand Cleared) Reddish-brown, CLAY, trace vf Sand, Silt, Gravel to m. Pebbles (sub angular to subrounded), medium plasticity, very stiff, dry to moist, trace varving layers in cracks	
		S2	NA	NR	0.0		NR	
10	600						End of boring at 10' bgs	
15	595							

 Design & Consultancy for natural and built assets	Remarks: AMSL = above mean sea level; bgs = below ground surface; ' = feet; " = inch; ppm = parts per million; NA = Not Applicable/Available; HC = Hand Cleared; S = Sample #; HSA = Hollow Stem Auger; NR = No Recovery; Hammer weight = 140; Hammer Drop = 30"; Insufficient amount of water to develop well. Hand Auger used to hand clear 0-5', remaining depths were cleared by a Rotary/HSA rig.

Date Start/Finish: 11/3/16 Drilling Company: Nothnagle Driller's Name: Thom M. Drilling Method: Rotary/HSA Sampling Method: 4' Macro Core w/ Acetate Liner Rig Type: Model CME-55LC Auger Size: 8"	Northing: 1090704.39 Easting: 1066801.70 Casing Elevation: 610.84' AMSL Borehole Depth: 30' bgs Surface Elevation: 611.20' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-5R Client: GE Parts & Repair Service Center Location: 175 Milens Rd Tonawanda, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	610	HC	NA	HC	NA		Asphalt	
							(Hand Cleared) #2 Crush Run	
							(Hand Cleared) Reddish-brown, CLAY, trace to little Silt, trace Gravel, Granules to large Pebbles (subrounded to subangular), high plasticity, very stiff to hard, moist to dry	
5	605	S1	NA	48"	0.0		Reddish-brown, CLAY, trace Gravel, Granules to large Pebbles (subangular to angular), high plasticity, hard, moist, some gray varving	
10	600	S2	NA	48"	0.0		SAA, 1" Pebbles at 10.1' bgs and 12.5' bgs, no gray mottling	
15		S3	NA	10"	0.0		Reddish-brown grading to grayish red-brown, CLAY, trace Silt, vf Sand, and Gravel, Granules (subangular), high plasticity, very stiff, moist	
595							SAA, grayish red-brown, Granules to medium Pebbles (subangular to subrounded), medium stiff	

 ARCADIS Design & Consultancy for natural and built assets	Remarks: AMSL = above mean sea level; bgs = below ground surface; ' = feet; " = inch; ppm = parts per million; NA = Not Applicable/Available; HC = Hand Cleared; S = Sample #; HSA = Hollow Stem Auger; SAA = Same As Above; Development of Well - Completed on 11/15/16; 12.85 gallons removed; tagged bottom of well: 29.35' bgs; Water Level = 8.80' bgs; Hammer weight = 140; Hammer Drop = 30"; Hand Auger used to hand clear 0-5', remaining depths were cleared by a Rotary/HSA rig.

Site Location:

Borehole Depth: 30' bgs

175 Milens Rd Tonawanda, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
		S4	NA	48"	0.0			
20	590	S5	NA	48"	0.0		Grayish red-brown, CLAY, little to some Silt, trace vf Sand and Gravel, Granules to medium Pebbles (subangular to angular), high plasticity, soft, moist	
							1" diameter Pebbles @ 24.3 ft	
25	585	S6	NA	48"	0.0			
							Grayish Red-brown, vf SAND, some Silt, little Gravel, Granules to medium Pebbles (subangular to angular), trace Clay, low plasticity, soft, very moist	
		S7	NA	23"	0.0		Grayish Red-brown, SILT, some Clay, trace vf Sand and Gravel, Granules to medium Pebbles (angular to sub-angular), medium to high plasticity, soft, moist	
30							End of boring at 30' bgs	
	580							0.01" slot PVC (15-29.8' bgs) #00 N Sand (13-30' bgs)
								End Cap (29.8-30' bgs)
35								
	575							

Remarks: AMSL = above mean sea level; bgs = below ground surface; ' = feet; " = inch; ppm = parts per million; NA = Not Applicable/Available; HC = Hand Cleared; S = Sample #; HSA = Hollow Stem Auger; SAA = Same As Above; Development of Well - Completed on 11/15/16; 12.85 gallons removed; tagged bottom of well: 29.35' bgs; Water Level = 8.80' bgs; Hammer weight = 140; Hammer Drop = 30"; Hand Auger used to hand clear 0-5', remaining depths were cleared by a Rotary/HSA rig.



Date Start/Finish: 11/4/16 Drilling Company: Nothnagle Driller's Name: Thom M. Drilling Method: Rotary/HSA Sampling Method: 4' Macro Core w/ Acetate Liner Rig Type: Model CME-55LC Auger Size: 8"	Northing: 1090964.18 Easting: 1066487.03 Casing Elevation: 614.79' AMSL Borehole Depth: 30' bgs Surface Elevation: 611.92' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-6 Client: GE Parts & Repair Service Center Location: 175 Milens Rd Tonawanda, NY

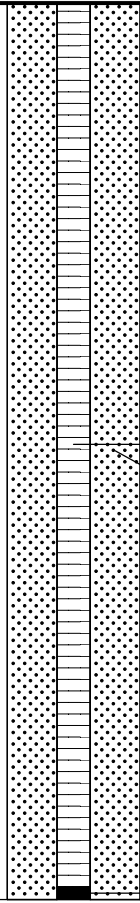
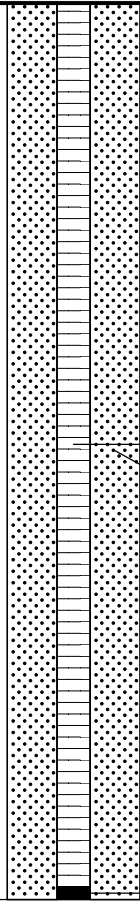
DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0							Hand Cleared to 5' bgs	Steel Flush Mount Curb Box 2" Locking J-Plug Concrete Pad
5	610	HC	NA	HC	NA			
5	605	S1	NA	45"	0.0		Reddish-brown, CLAY, trace Silt, Gravel, Granules to medium Pebbles (angular to subangular) low plasticity, very stiff to brittle, dry to moist SAA, grades to stiff at 12.2' bgs	Bentonite/Grout Slurry (1-11' bgs)
10	600	S2	NA	48"	0.0			PVC Riser (0.15-15' bgs)
10							Reddish-brown, CLAY, some Silt, trace Gravel, Granules to small Pebbles (angular to subangular), medium plasticity, stiff, moist	Bentonite Chips (11-13' bgs)
15		S3	NA	24"	0.0			#00 N Sand (13-30' bgs)
15								0.01" slot PVC (15-29.8' bgs)

 Design & Consultancy for natural and built assets	Remarks: AMSL = above mean sea level; bgs = below ground surface; ' = feet; " = inch; ppm = parts per million; NA = Not Applicable/Available; HC = Hand Cleared; S = Sample #; HSA = Hollow Stem Auger; SAA = Same As Above; Development of Well - Completed on 11/15/16; 17.25' gallons removed; tagged bottom of well: 32.16' bgs; Water Level = 9.23' bgs; Hammer weight = 140; Hammer Drop = 30"; Hand Auger used to hand clear 0-5', remaining depths were cleared by a Rotary/HSA rig.

Site Location:

Borehole Depth: 30' bgs

175 Milens Rd Tonawanda, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
595		S4	NA	48"	0.0		1" diameter pebbles @ 18.8' bgs and 19' bgs, high plasticity	 0.01" slot PVC (15-29.8' bgs) #00 N Sand (13-30' bgs)
20		S5	NA	48"	0.0		SAA, few lenses of gray varved layers throughout; 1" diameter Pebble at 21.2' bgs	
590								
25		S6	NA	48"	0.0		Reddish-brown, vf-f SAND, trace Silt, Gravel, Granules to small Pebbles (subangular), medium dense, moist to wet Grayish Red-brown, SILT and CLAY, trace Gravel, Granules to large Pebbles (subangular to subround), high plasticity, soft, moist	
585							1/2" diameter Pebble at 26' bgs (sticky)	
		S7	NA	NR	0.0		NR	 End Cap (29.8-30' bgs)
30							End of boring at 30' bgs	
580								
35								

Remarks: AMSL = above mean sea level; bgs = below ground surface; ' = feet; " = inch; ppm = parts per million; NA = Not Applicable/Available; HC = Hand Cleared; S = Sample #; HSA = Hollow Stem Auger; SAA = Same As Above; Development of Well - Completed on 11/15/16; 17.25' gallons removed; tagged bottom of well: 32.16' bgs; Water Level = 9.23' bgs; Hammer weight = 140; Hammer Drop = 30"; Hand Auger used to hand clear 0-5', remaining depths were cleared by a Rotary/HSA rig.

Date Start/Finish: 11/7/16 Drilling Company: Nothnagle Driller's Name: Thom M. Drilling Method: Rotary/HSA Sampling Method: 4' Macro Core w/ Acetate Liner Rig Type: Model CME-55LC Auger Size: 8"	Northing: 1090551.10 Easting: 1066498.60 Casing Elevation: 612.08' AMSL Borehole Depth: 30' bgs Surface Elevation: 612.42' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-7 Client: GE Parts & Repair Service Center Location: 175 Milens Rd Tonawanda, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
615								
0								Steel Flush Mount Curb Box
							Asphalt	2" Locking J-Plug
							(Hand Cleared) #2 Crush Run stone with fines	Concrete Pad
							(Hand Cleared) Reddish, SILT and CLAY, medium dense, dry to slightly moist	
610		HC	NA	HC	NA			
5							Red-brown, SILT and CLAY, trace f Gravel (angular to subrounded), low plasticity, dense, dry	Bentonite/Grout Slurry (1-11' bgs)
605		S1	NA	48"	0.0			PVC Riser (0.15-15' bgs)
10							Red-brown, SILT and CLAY, trace f Gravel (angular to subrounded), low to medium plasticity (increasing with depth), medium dense, moist	
600		S2	NA	48"	0.0			Bentonite Chips (11-13' bgs)
							SAA red-brown, until 0.01" lense of f Sand	
15		S3	NA	24"	0.0			#00 N Sand (13-30' bgs)
							Red-brown, SILT and CLAY, some f Gravel (angular), trace m Gravel, medium plasticity, medium dense, moist	0.01" slot PVC (15-29.8' bgs)

 ARCADIS Design & Consultancy for natural and built assets	Remarks: AMSL = above mean sea level; bgs = below ground surface; ' = feet; " = inch; ppm = parts per million; NA = Not Applicable/Available; HC = Hand Cleared; S = Sample #; HSA = Hollow Stem Auger; SAA = Same As Above; Development of Well - Completed on 11/16/16; 2.25 gallons removed; tagged bottom of well: 29.44' bgs; Water Level = 26.11' bgs; Hammer weight = 140; Hammer Drop = 30"; Hand Auger used to hand clear 0-5', remaining depths were cleared by a Rotary/HSA rig.

Client: GE Parts & Repair Service Center

Well/Boring ID: MW-7

Site Location:

Borehole Depth: 30' bgs

175 Milens Rd Tonawanda, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
595		S4	NA	48"	0.0			
20		S5	NA	48"	0.0		Red-brown, SILT and CLAY, trace f Gravel, medium plasticity (able to create ribbon, but quickly cracks, due to high Silt content)	
590								
25		S6	NA	48"	0.0		Red-brown, SILT and CLAY, trace m to f Gravel (angular), medium plasticity, moist Transitioning to gray-brown, SILT and CLAY, moist, increasing plasticity at 27' bgs	
585		S7	NA	NR	0.0		NR	
30							Auger advanced to 30' bgs to set well.	
580								
35								

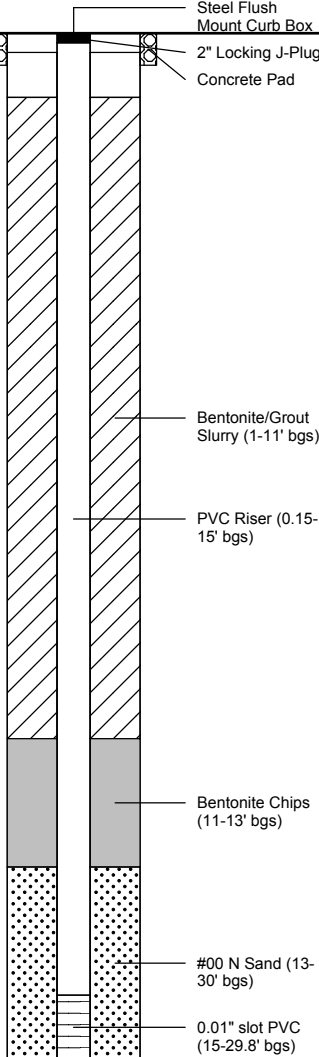
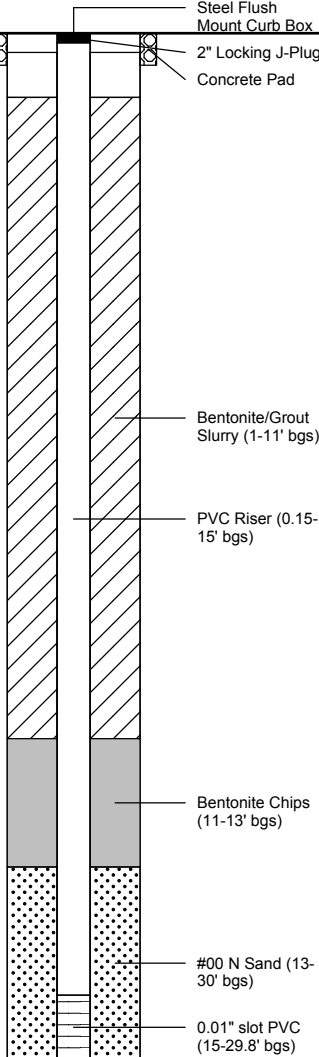
0.01" slot PVC
(15-29.8' bgs)
#00 N Sand (13-30' bgs)

End Cap (29.8-30' bgs)

Remarks: AMSL = above mean sea level; bgs = below ground surface; ' = feet; " = inch; ppm = parts per million; NA = Not Applicable/Available; HC = Hand Cleared; S = Sample #; HSA = Hollow Stem Auger; SAA = Same As Above; Development of Well - Completed on 11/16/16; 2.25 gallons removed; tagged bottom of well: 29.44' bgs; Water Level = 26.11' bgs; Hammer weight = 140; Hammer Drop = 30"; Hand Auger used to hand clear 0-5', remaining depths were cleared by a Rotary/HSA rig.



Date Start/Finish: 11/2/16-11/3/16 Drilling Company: Nothnagle Driller's Name: Thom M. Drilling Method: Rotary/HSA Sampling Method: 4' Macro Core w/ Acetate Liner Rig Type: Model CME-55LC Auger Size: 8"	Northing: 1090502.15 Easting: 1066715.76 Casing Elevation: 611.04' AMSL Borehole Depth: 30' bgs Surface Elevation: 611.46' AMSL Descriptions By: Ryan Clare	Well/Boring ID: MW-8 Client: GE Parts & Repair Service Center Location: 175 Milens Rd Tonawanda, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	610	HC	NA	HC	NA		Asphalt	
							(Hand Cleared) #2 Crush Run, wet	
							(Hand Cleared) Olive reddish-brown, CLAY, trace Silt, Gravel to medium Pebbles, very stiff, moist to wet	
5	605	S1	NA	48"	0.0		Olive reddish-brown, CLAY, trace Silt, Gravel to medium Pebbles (subangular to subrounded), medium to high plasticity, very stiff, moist	
							Possibly into native CLAY at 8' bgs	
10	600	S2	NA	48"	0.0		Grades to grayish red-brown @ 12.7' bgs	
		S3	NA	24"	0.0		Grayish red-brown, CLAY, trace vf. Sand, Silt, and Gravel, grades to small Pebbles (subangular to subrounded), medium to high plasticity, stiff to medium stiff, moist 1" diameter pebbles @ 13.6' bgs	
15	595						Grayish red-brown, CLAY, trace vf. Sand, Silt, and Gravel to small Pebbles (subangular), high plasticity, stiff to medium stiff, moist	

 Design & Consultancy for natural and built assets	Remarks: AMSL = above mean sea level; bgs = below ground surface; ' = feet; " = inch; ppm = parts per million; NA = Not Applicable/Available; HC = Hand Cleared; S = Sample #; HSA = Hollow Stem Auger; SAA = Same As Above; Development of Well - Completed on 11/16/16; 13.25 gallons removed; tagged bottom of well: 29.54' bgs; Water Level = 16.86' bgs; Hammer weight = 140; Hammer Drop = 30"; Hand Auger used to hand clear 0-5', remaining depths were cleared by a Rotary/HSA rig.

Site Location:

Borehole Depth: 30' bgs

175 Milens Rd Tonawanda, NY

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well/Boring Construction
19.5	599	S4	NA	30"	0.0		1/2" diameter pebbles @ 17.6' bgs	
20	590	S5	NA	19"	0.0		No sample; soft & wet clay slide out of macro core into the borehole upon retrieval Attempted made to recover lost sample. SAA, little Silt	
25	585	S6	NA	48"	0.0		Grayish red-brown, CLAY, little Silt, trace less than 1% Gravel grades to small Pebbles (subangular and subrounded), high plasticity, soft to very soft, moist	0.01" slot PVC (15-29.8' bgs) #00 N Sand (13-30' bgs)
28		S7	NA	36"	0.0		SAA, trace vf Sand, 1" Pebble at 28.10' bgs	
30	580						End of boring @ 30' bgs	End Cap (29.8-30' bgs)
35								

Remarks: AMSL = above mean sea level; bgs = below ground surface; ' = feet; " = inch; ppm = parts per million; NA = Not Applicable/Available; HC = Hand Cleared; S = Sample #; HSA = Hollow Stem Auger; SAA = Same As Above; Development of Well - Completed on 11/16/16; 13.25 gallons removed; tagged bottom of well: 29.54' bgs; Water Level = 16.86' bgs; Hammer weight = 140; Hammer Drop = 30"; Hand Auger used to hand clear 0-5', remaining depths were cleared by a Rotary/HSA rig.



APPENDIX B

2016 Groundwater Sampling Logs



Project	GE - Tonawanda		
Project Number	AP013103.4000	Site Location	175 Milens Rd. Tonawanda, NY
Date	11/22/16	Sampled By	Ryan Clare
Sampling Time	11/23/16 @ 1345	Recorded By	Ryan Clare
Weather	Overcast; 32°	Coded Replicate No.	

Instrument Identification:		Meter(s) Model:	Serial #	
		YSI 556 MPS	019092-14m	
Casing Material:	PVC		116100218-YSI	
Casing Diameter:	2"	Purge Method:	Geopump - Peristaltic	
Sounded Depth (ft bmp)	9.22	Screen Interval (ft bmp):	Top	Bottom
Depth to Water (ft bmp)	8.14	Pump Intake Depth (ft bmp):	Initial	Final
Well Volume (Gal)	0.18	Purge Time:	Start	Finish
			5	10'
			9.15	9.22
			1052	1357

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) †	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Notes
1055	0	90		13.44	7.50	1.070	320.7	18.59	13.7	8.50	
1100	5	90		13.35	7.43	1.035	315.4	13.97	8.24	8.64	
1105	10	90		13.07	7.41	1.006	312.0	8.53	5.04	8.79	
1110	15	90	0.5	13.12	7.39	0.998	309.6	7.57	3.44	8.92	
1115	20	90		13.53	7.39	1.017	307.7	5.47	2.55	9.15	
1120	25	90		13.65	7.35	1.070	306.8	4.76	1.48	NM	
1124	29	90	0.8	Pumped	Dry						
SAMPLED	on	11/23/16	at	1345							

Collected Sample Condition	Color	Odor	Appearance	Preservative
Parameter			No. Collected	
VOCs				HCl
PCB's				None

Comments 0.4 ppm headspace
Pumped dry on 11-22-16. Will return to collect grab sample with per-pump after well has re-charged to at least 10% of static water level.
* Not enough water for both 250 ml Ambers; only one filled.
1) Circle one unit type No parameters collected during sample collection.

Project	GE - Tonawanda		Site Location	175 Milens Rd. Tonawanda, NY		Well ID	MW-4	
Project Number	AP013103.4000		Sampled By	Ryan Clare				
Date	11/22/16		Recorded By	Ryan Clare				
Sampling Time	1350		Coded Replicate No.	DUP-112216				
Weather	Sunny, 36°							
Instrument Identification:	Meter(s) Model:		YS1 556 MPS		Serial #	11L100218		
Casing Material:	PVC		Purge Method:	Geopump - Peristaltic				
Casing Diameter:	2"		Screen Interval (ft bmp):	Top	2	Bottom	?	
Sounded Depth (ft bmp)	15.34		Pump Intake Depth (ft bmp):	Initial	15'	Final	15'	
Depth to Water (ft bmp)	8.05		Purge Time:	Start	1306	Finish	1405	
Well Volume (Gal)	1.19							

[illegible]

Collected Sample Condition		Color <u>None</u>	Odor <u>None</u>	Appearance <u>Clear</u>
Parameter	Container	No. Collected	Preservative	
VOCs	40 ml Vials	6	HCl	
PCB's	250 ml Amber Bottles	4	None	

Comments	~~QNTS~~ open headspace at well. Duplicate sample collected here. Dup-112216

C:\Users\rciare\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\83KW6MM0\lowflowsampforms.xls - Sheet1

Project	GE - Tonawanda		
Project Number	AP013103.4000	Site Location	175 Milens Rd. Tonawanda, NY
Date	11/22/16	Sampled By	Ryan Clare
Sampling Time	1235	Recorded By	Ryan Clare
Weather	overcast; 33° F	Coded Replicate No.	

Instrument Identification: Meter(s) Model: 951 556 MPJ Serial #: 112100218

Casing Material:	PVC	Purge Method:	Geopump - Peristaltic	
Casing Diameter:	2"	Screen Interval (ft bmp):	Top	Bottom
Sounded Depth (ft bmp)	29.29	Pump Intake Depth (ft bmp):	Initial	Final
Depth to Water (ft bmp)	15.89	Purge Time:	Start	Finish
Well Volume (Gal)	2.18			

[illegible]

Collected Sample Condition	Color	Odor	Appearance	
Parameter			No. Collected	Preservative
VOCs			3	HCl
PCB's			2	None

Comments 1.2 ppm headspace on well.

1) Circle one unit type

Low-Flow Groundwater Sampling Log

Project GE - Tonawanda
 Project Number AP013103.4000 Site Location 175 Milens Rd. Tonawanda, NY Well ID MW-6
 Date 11/22/16 Sampled By Ryan Clare
 Sampling Time 1635 Recorded By Ryan Clare
 Weather Sunny: 37° Coded Replicate No.

Instrument Identification: Meter(s) Model: YSI 556 MPS Serial # 11L100218

Casing Material: PVC
 Casing Diameter: 2"
 Sounded Depth (ft bmp) 32.10
 Depth to Water (ft bmp) 9.41
 Well Volume (Gal) 3.70
 Purge Method: Geopump - Peristaltic
 Screen Interval (ft bmp): Top 15 Bottom 30
 Pump Intake Depth (ft bmp): Initial 31.5 Final 31.5
 Purge Time: Start 1512 Finish 1644

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) ¹	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Notes
1515	0	130		12.08	7.35	1.356	255.9	33.48	61.5	10.33	
1520	5	130		11.92	7.28	1.352	260.4	22.33	35.8	11.00	
1525	10	90		11.43	7.25	1.336	258.1	21.54	22.9	11.32	
1530	15	90	0.5	11.21	7.25	1.313	247.5	15.81	15.8	11.85	
1535	20	90		11.00	7.24	1.300	252.0	9.81	9.75	12.24	
1540	25	90		11.04	7.23	1.289	250.1	7.24	8.59	12.62	
1545	30	90	0.8	11.00	7.22	1.279	250.3	5.83	7.85	12.92	
1550	35	90		10.93	7.21	1.265	259.5	5.11	5.40	13.30	
1555	40	90		10.68	7.20	1.244	263.0	4.61	4.91	13.63	
1600	45	90	1.1	10.09	7.20	1.230	256.8	4.37	4.40	13.85	
1605	50	100		10.44	7.20	1.222	262.4	4.03	3.87	14.23	
1610	55	110		10.45	7.20	1.212	268.9	3.82	3.79	14.56	
1615	60	110		10.62	7.26	1.209	272.9	3.81	3.66	14.95	
1620	65	100	1.5	10.69	7.29	1.202	275.7	3.81	2.82	15.35	
1625	70	100		10.73	7.29	1.199	276.7	3.80	2.90	15.74	
1630	75	100		10.70	7.29	1.194	277.7	3.85	2.71	16.09	

Collected Sample Condition Color None Odor None Appearance Clear
 Parameter Container No. Collected Preservative
 VOCs 40 ml Vials 3 HCl
 PCB's 250 ml Amber Bottles 2 None

Comments 0.0 ppm headspace on well.

1) Circle one unit type

Low-Flow Groundwater Sampling Log

Project GE - Tonawanda
 Project Number AP013103.4000 Site Location 175 Milens Rd. Tonawanda, NY Well ID MW-7
 Date 11/22/16 + 11/23/16 Sampled By Ryan Clare
 Sampling Time 1230 Recorded By Ryan Clare
 Weather overcast; 31° F Coded Replicate No.

Instrument Identification: YSI 556 MPS Meter(s) Model: YSI 556 MPS Serial # 11L100218
 Casing Material: PVC
 Casing Diameter: 2"
 Sounded Depth (ft bmp) 29.39' Purge Method: Geopump - Peristaltic
 Depth to Water (ft bmp) 25.74' Screen Interval (ft bmp): Top 15' Bottom 30'
 Well Volume (Gal) 0.59 Pump Intake Depth (ft bmp): Initial 29' Final 29.38'
 Purge Time: Start 0817 Finish 1025

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged (gallons)	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) †	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Notes
0820	0	120		11.96	7.64	0.811	199.8	19.24	5.24	26.06	
0825	5	120		11.76	7.64	0.809	207.5	20.51	4.48	26.31	
0830	10	90		11.43	7.61	0.810	220.1	21.01	8.68	26.41	
0835	15	90	0.5	11.06	7.60	0.816	230.8	20.35	10.06	26.59	
0840	20	90		11.10	7.58	0.824	238.1	19.31	11.48	26.73	
0845	25	90		11.15	7.58	0.834	244.9	17.66	10.88	26.91	
0850	30	90	0.75	11.27	7.58	0.843	250.6	15.56	11.82	27.07	
0855	35	90		11.24	7.56	0.853	255.8	13.01	12.26	27.22	
0900	40	90		11.12	7.56	0.856	258.9	11.20	11.11	27.38	
0905	45	90	1.1	11.11	7.56	0.857	262.5	9.41	9.89	27.58	
0910	50	90		11.00	7.56	0.861	264.8	8.38	9.65	27.71	
0915	55	90		10.91	7.56	0.860	267.1	7.56	9.40	27.86	
0920	60	90	1.3	10.88	7.56	0.860	268.9	6.79	7.69	28.00	
0925	65	90		10.93	7.56	0.860	270.5	6.23	7.04	28.12	
0930	70	90		11.01	7.56	0.859	272.0	5.77	6.30	28.31	
0935	75	90		10.93	7.57	0.856	273.3	5.32	5.89	28.47	
0940	80	90	1.75	10.81	7.57	0.849	274.5	5.08	4.82	28.60	
0945	85	90		10.73	7.57	0.839	275.6	4.87	4.41	28.73	
0950	90	90		10.54	7.57	0.825	276.5	4.68	3.75	28.86	
0955	95	80	1.90	10.43	7.57	0.811	277.2	4.44	3.18	28.96	

Collected Sample Condition Color None Odor None Appearance Clear
 Parameter Container No. Collected Preservative
 VOCs 40 ml Vials 3 HCl
 PCB's 250 ml Amber Bottles 2 None

Comments 0.0 ppm head space

1) Circle one unit type

Project	GE - Tonawanda		
Project Number	AP013103.4000	Site Location	175 Milens Rd. Tonawanda, NY
Date	~~2/23/14~~ 2/11/22/16 + 11/23/16	Sampled By	Ryan Clare
		Well ID	MW-7

[illegible][illegible]

PID Reading	
Comments	NM- Not Measurable Not sampled on 11/22/16. Well will re-charge over night and samples will be collected on 11-23-16. Sampled on 11-23-16 and one set of parameters recorded.

Low-Flow Groundwater Sampling Log

Project GE - Tonawanda
 Project Number AP013103.4000 Site Location 175 Milens Rd. Tonawanda, NY Well ID MW- 8
 Date 11/23/16 Sampled By Ryan Clare
 Sampling Time 0945 Recorded By Ryan Clare
 Weather Partly cloudy; 29° Coded Replicate No.
 Instrument Identification: Meter(s) Model: YSI 556 Serial # 11L100218
 Casing Material: PVC
 Casing Diameter: 2"
 Sounded Depth (ft bmp) 29.48 Purge Method: Geopump - Peristaltic
 Depth to Water (ft bmp) 17.09 Screen Interval (ft bmp): Top 15 Bottom 30
 Well Volume (Gal) 2.02 Pump Intake Depth (ft bmp): Initial 29 Final 29
 Purge Time: Start 0813 Finish ~~0936~~ 1010

Field Parameter Measurements During Purging

Time	Minutes Elapsed	Flow Rate (mL/min)	Volume Purged	Temp (°C)	pH (s.u.)	Conductivity (umhos or mS/cm) ¹	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Depth to Water (ft bmp)	Notes
0815	0	100		13.13	7.90	0.905	514.8	23.97	4.40	17.55	
0820	5	100		12.52	7.73	0.886	483.4	16.61	3.75	17.69	
0825	10	100		12.50	7.72	0.884	469.5	17.59	4.60	17.84	
0830	15	100	0.5	12.56	7.70	0.886	460.2	16.29	4.11	17.99	
0835	20	100		12.48	7.68	0.882	454.2	14.02	5.25	18.15	
0840	25	100		12.35	7.68	0.878	448.9	10.43	5.71	18.33	
0845	30	100		12.35	7.67	0.876	444.5	7.21	7.94	18.49	
0850	35	100		12.22	7.67	0.875	440.9	5.67	13.7	18.64	
0855	40	100	1.0	12.37	7.66	0.876	436.5	5.01	23.7	18.81	
0900	45	100		12.30	7.65	0.875	433.2	4.49	32.1	18.92	
0905	50	100		12.27	7.65	0.875	430.1	4.27	39.9	19.13	
0910	55	100		12.24	7.66	0.875	427.3	3.94	46.1	19.30	
0915	60	100	0.8	12.34	7.65	0.882	425.5	3.88	50.2	19.45	
0920	65	100	1.6	12.44	7.64	0.888	422.7	3.81	54.4	19.60	
0925	70	100		12.22	7.63	0.891	421.7	3.66	56.7	19.74	
0930	75	100		12.10	7.63	0.892	419.3	3.56	47.2	19.90	
0935	80	100		12.36	7.62	0.897	416.9	3.58	45.1	20.08	
0940	85	100	2.0	12.31	7.62	0.903	415.1	3.55	45.5	20.25	

Collected Sample Condition Color None Odor None Appearance Slightly Cloudy
 Parameter Container No. Collected Preservative
 VOCs 40 ml Vials 9 HCl
 PCB's 250 ml Amber Bottles 6 None

Comments 2.2 ppm at headspace of well.
* MS/MSD collected here (MW-8-(MS/MSD))

1) Circle one unit type

APPENDIX C

Data Usability Summary Report



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 #480-110087-1

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

Report #26904R
Review Level: Tier III
Project: AP013103.4000

DATA USABILITY SUMMARY REPORT

SUMMARY

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Group (SDG) #480-110087-1 for samples collected in association with The General Electric Company (GE) 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 data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. 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	480-110087-1	Water	11/22/2016		X	X	
MW-4	480-110087-2	Water	11/22/2016		X	X	
MW-6	480-110087-3	Water	11/22/2016		X	X	
MW-8	480-110087-4	Water	11/23/2016		X	X	
MW-7	480-110087-5	Water	11/23/2016		X	X	
MW-2R	480-110087-6	Water	11/23/2016		X	X	
TRIP BLANK	480-110087-7	Water	11/17/2016		X		
DUP-112216	480-110087-8	Water	11/17/2016	MW-4	X	X	

Notes:

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

DATA USABILITY SUMMARY REPORT

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	

DATA USABILITY SUMMARY REPORT

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 *Quality Assurance Project Plan for Corrective Measures Implementation Program, Parts and Repair Service Center, General Electric International, Inc., Tonawanda, New York* (URS Corporation, October 2012).

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 weighed 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.

Two facts should be noted by all data users. First, 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

DATA USABILITY SUMMARY REPORT

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. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA USABILITY SUMMARY REPORT

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.

The samples were stored on ice from the time they were collected until they were hand-delivered to the laboratory on the last day of sample collection (i.e., 11/23/2016). The laboratory noted a receipt temperature of 9.6°C, greater than the preservation requirement of <6°C. The samples did not have time to reach a temperature of <6°C. No qualification of the sample results was required.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any 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 not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

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 insure 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.

DATA USABILITY SUMMARY REPORT

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	Bromomethane	-50.8%
		Chloroethane	-34.5%
MW-5R MW-4 MW-6 MW-8 MW-7 MW-2R DUP-112216	CCV %D	Bromomethane	+20.3%
		Chloroethane	+25.0%
		Acetone	+21.4%

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
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
		Detect	
Initial Calibration	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD >90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >30% (increase in sensitivity)	Non-detect	No Action
		Detect	J

DATA USABILITY SUMMARY REPORT

Initial/Continuing	Criteria	Sample Result	Qualification
	%D >30% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D >90% (increase/decrease in sensitivity)	Non-detect	R
		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 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 (MS/MSD) 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	Chloroethane	> UL	AC

Note:

AC Acceptable

DATA USABILITY SUMMARY REPORT

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
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than the control limit are presented in the following table.

Sample Locations	Compound
MW-8	Bromomethane

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

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	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. A control limit of 35% for water matrices 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.

DATA USABILITY SUMMARY REPORT

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-4/ DUP-112216	All compounds	U	U	AC

Note:

AC Acceptable

No VOCs were detected in samples MW-4 and DUP-112216; 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 USABILITY SUMMARY REPORT

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	
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		

DATA USABILITY SUMMARY REPORT

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

DATA USABILITY SUMMARY REPORT

POLYCHLORINATED BIPHENYLS (PCBs) 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

All samples were analyzed within the specified holding time criteria.

The samples were stored on ice from the time they were collected until they were hand-delivered to the laboratory on the last day of sample collection (i.e., 11/23/2016). The laboratory noted a receipt temperature of 9.6°C, greater than the preservation requirement of <6°C. The samples did not have time to reach a temperature of <6°C. No qualification of the sample results was required.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any 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 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.

DATA USABILITY SUMMARY REPORT

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (15%).

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 (MS/MSD) 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.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

7. 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.

8. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices 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.

DATA USABILITY SUMMARY REPORT

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-4/ DUP-112216	All compounds	U	U	AC

Note:

AC Acceptable

No PCBs were detected in samples MW-4 and DUP-112216; 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 (%RPD) 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 USABILITY SUMMARY REPORT

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

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

DATA USABILITY SUMMARY REPORT

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹		Noncompliance
					VOC	PCB	
480-110087-1	11/22/2016	SW-846	MW-5R	Water	Yes	Yes	
	11/22/2016	SW-846	MW-4	Water	Yes	Yes	
	11/22/2016	SW-846	MW-6	Water	Yes	Yes	
	11/23/2016	SW-846	MW-8	Water	No	Yes	VOC – MS %R, MS/MSD RPD
	11/23/2016	SW-846	MW-7	Water	Yes	Yes	
	11/23/2016	SW-846	MW-2R	Water	Yes	Yes	
	11/17/2016	SW-846	TRIP BLANK	Water	No	--	VOC – CCV %D
	11/22/2016	SW-846	DUP-112216	Water	Yes	Yes	

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.

DATA USABILITY SUMMARY REPORT

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:



DATE: January 5, 2017

PEER REVIEW: Dennis Capria

DATE: January 6, 2017

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA
SHEETS



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

Client Contact		Project Manager: <u>Dan Zuck</u>		Site Contact: <u>Ryan Clark</u>		Date: <u>11-23-16</u>		COC No:	
Company Name: <u>Aracadis</u>		Tel/Fax: <u>315-671-9152</u>		Lab Contact:		Carrier:		1 of 1 COCs	
Address: <u>6723 Township Rd</u>		Analysis Turnaround Time		Filtered Sample (Y/N) <u>NO</u> Perform MS / MSD (Y/N) <u>NO</u> <u>NOES - 82600</u> <u>PCBS - 8082 A</u>		Sampler: For Lab Use Only: Walk:  Lab S: Job / 480-110087 COC Sample Specific Notes:			
City/State/Zip: <u>Syracuse, NY 13057</u>		☐ CALENDAR DAYS ☐ WORKING DAYS							
Phone: <u>(315) 446-9120</u>		TAT if different from Below <u>Standard</u>							
Fax: <u>-</u>		☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day							
Project Name: <u>GE Parts & Repair Service Center</u>		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix	
Site: <u>Tonawanda, NY</u>									
PO# <u>AP013103-4000</u>									
Sample Identification									
MW-SR		11/22/16 1235		G GW 5		3 2			
MW-4		11/22/16 1350		G GW 5		3 2			
MW-6		11/22/16 1635		G GW 5		3 2			
MW-8		11/23/16 0945		G GW 5		3 2			
MW-8-(MS)/MSD		11/23/16 0945		G GW 10		6 4			
MW-7		11/23/16 1230		G GW 5		3 2			
MW-2R		11/23/16 1345		G GW 4		3 1			
Trip Blank		11/17/16 -		- - 2		2			
DUP-112216		11/22/16 -		G GW 5		3 2			
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other						2 1			
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.								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown								☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months	
Special Instructions/QC Requirements & Comments:								Temp 9.6 #1 ICE	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Corr'd: _____		Therm ID No.: _____	
Relinquished by: <u>[Signature]</u>		Company: <u>Aracadis</u>		Date/Time: <u>11-23-16 1450</u>		Received by: <u>[Signature]</u>		Company: <u>T.A.</u>	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Company:	

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-5R

Lab Sample ID: 480-110087-1

Date Collected: 11/22/16 12:35

Matrix: Water

Date Received: 11/23/16 14:50

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			12/03/16 12:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 12:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 12:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 12:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 12:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 12:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 12:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 12:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 12:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 12:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 12:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 12:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 12:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 12:00	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 12:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 12:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 12:00	1
Acetone	ND		10	3.0	ug/L			12/03/16 12:00	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 12:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 12:00	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 12:00	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 12:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 12:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 12:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/16 12:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 12:00	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 12:00	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 12:00	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 12:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 12:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 12:00	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 12:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 12:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 12:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 12:00	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 12:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 12:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 12:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 12:00	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 12:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 12:00	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 12:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 12:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 12:00	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 12:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 12:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 12:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 12:00	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-5R

Lab Sample ID: 480-110087-1

Date Collected: 11/22/16 12:35

Matrix: Water

Date Received: 11/23/16 14:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/03/16 12:00	1
Toluene-d8 (Surr)	101		80 - 120		12/03/16 12:00	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/03/16 12:00	1
Dibromofluoromethane (Surr)	103		75 - 123		12/03/16 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.47	0.16	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1221	ND		0.47	0.16	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1232	ND		0.47	0.16	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1242	ND		0.47	0.16	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1248	ND		0.47	0.16	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1254	ND		0.47	0.23	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1260	ND		0.47	0.23	ug/L		11/28/16 12:03	11/29/16 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	116		19 - 120	11/28/16 12:03	11/29/16 05:45	1
DCB Decachlorobiphenyl	109		19 - 120	11/28/16 12:03	11/29/16 05:45	1
Tetrachloro-m-xylene	101		39 - 121	11/28/16 12:03	11/29/16 05:45	1
Tetrachloro-m-xylene	95		39 - 121	11/28/16 12:03	11/29/16 05:45	1

Client Sample ID: MW-4

Lab Sample ID: 480-110087-2

Date Collected: 11/22/16 13:50

Matrix: Water

Date Received: 11/23/16 14:50

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			12/03/16 12:28	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 12:28	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 12:28	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 12:28	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 12:28	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 12:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 12:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 12:28	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 12:28	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 12:28	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 12:28	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 12:28	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 12:28	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 12:28	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 12:28	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 12:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 12:28	1
Acetone	ND		10	3.0	ug/L			12/03/16 12:28	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 12:28	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 12:28	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 12:28	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 12:28	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 12:28	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 12:28	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-4

Lab Sample ID: 480-110087-2

Date Collected: 11/22/16 13:50

Matrix: Water

Date Received: 11/23/16 14:50

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			12/03/16 12:28	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 12:28	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 12:28	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 12:28	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 12:28	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 12:28	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 12:28	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 12:28	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 12:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 12:28	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 12:28	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 12:28	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 12:28	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 12:28	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 12:28	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 12:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 12:28	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 12:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 12:28	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 12:28	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 12:28	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 12:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 12:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/03/16 12:28	1
Toluene-d8 (Surr)	101		80 - 120		12/03/16 12:28	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/03/16 12:28	1
Dibromofluoromethane (Surr)	100		75 - 123		12/03/16 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1221	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1232	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1242	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1248	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1254	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1260	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		19 - 120	11/28/16 07:50	11/29/16 03:53	1
DCB Decachlorobiphenyl	76		19 - 120	11/28/16 07:50	11/29/16 03:53	1
Tetrachloro-m-xylene	94		39 - 121	11/28/16 07:50	11/29/16 03:53	1
Tetrachloro-m-xylene	92		39 - 121	11/28/16 07:50	11/29/16 03:53	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-6

Lab Sample ID: 480-110087-3

Date Collected: 11/22/16 16:35

Matrix: Water

Date Received: 11/23/16 14:50

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			12/03/16 12:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 12:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 12:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 12:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 12:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 12:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 12:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 12:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 12:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 12:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 12:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 12:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 12:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 12:55	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 12:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 12:55	1
Acetone	ND		10	3.0	ug/L			12/03/16 12:55	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 12:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 12:55	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 12:55	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 12:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 12:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 12:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/16 12:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 12:55	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 12:55	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 12:55	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 12:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 12:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 12:55	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 12:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 12:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 12:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 12:55	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 12:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 12:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 12:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 12:55	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 12:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 12:55	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 12:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 12:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 12:55	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 12:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 12:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 12:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 12:55	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-6

Lab Sample ID: 480-110087-3

Date Collected: 11/22/16 16:35

Matrix: Water

Date Received: 11/23/16 14:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		12/03/16 12:55	1
Toluene-d8 (Surr)	102		80 - 120		12/03/16 12:55	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/03/16 12:55	1
Dibromofluoromethane (Surr)	102		75 - 123		12/03/16 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1221	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1232	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1242	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1248	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1254	ND		0.49	0.24	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1260	ND		0.49	0.24	ug/L		11/28/16 07:50	11/29/16 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		19 - 120	11/28/16 07:50	11/29/16 04:09	1
DCB Decachlorobiphenyl	72		19 - 120	11/28/16 07:50	11/29/16 04:09	1
Tetrachloro-m-xylene	93		39 - 121	11/28/16 07:50	11/29/16 04:09	1
Tetrachloro-m-xylene	92		39 - 121	11/28/16 07:50	11/29/16 04:09	1

Client Sample ID: MW-8

Lab Sample ID: 480-110087-4

Date Collected: 11/23/16 09:45

Matrix: Water

Date Received: 11/23/16 14:50

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			12/03/16 13:23	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 13:23	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 13:23	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 13:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 13:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 13:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 13:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 13:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 13:23	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 13:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 13:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 13:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 13:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 13:23	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 13:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 13:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 13:23	1
Acetone	ND		10	3.0	ug/L			12/03/16 13:23	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 13:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 13:23	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 13:23	1
Bromomethane	ND	F2 UJ	1.0	0.69	ug/L			12/03/16 13:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 13:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 13:23	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-8

Lab Sample ID: 480-110087-4

Date Collected: 11/23/16 09:45

Matrix: Water

Date Received: 11/23/16 14:50

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			12/03/16 13:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 13:23	1
Chloroethane	ND	PT	1.0	0.32	ug/L			12/03/16 13:23	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 13:23	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 13:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 13:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 13:23	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 13:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 13:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 13:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 13:23	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 13:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 13:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 13:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 13:23	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 13:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 13:23	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 13:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 13:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 13:23	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 13:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 13:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 13:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/03/16 13:23	1
Toluene-d8 (Surr)	99		80 - 120		12/03/16 13:23	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/03/16 13:23	1
Dibromofluoromethane (Surr)	100		75 - 123		12/03/16 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1221	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1232	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1242	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1248	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1254	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1260	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 04:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		19 - 120	11/28/16 07:50	11/29/16 04:25	1
DCB Decachlorobiphenyl	64		19 - 120	11/28/16 07:50	11/29/16 04:25	1
Tetrachloro-m-xylene	87		39 - 121	11/28/16 07:50	11/29/16 04:25	1
Tetrachloro-m-xylene	93		39 - 121	11/28/16 07:50	11/29/16 04:25	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-7

Lab Sample ID: 480-110087-5

Date Collected: 11/23/16 12:30

Matrix: Water

Date Received: 11/23/16 14:50

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			12/03/16 13:50	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 13:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 13:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 13:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 13:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 13:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 13:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 13:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 13:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 13:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 13:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 13:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 13:50	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 13:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 13:50	1
Acetone	ND		10	3.0	ug/L			12/03/16 13:50	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 13:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 13:50	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 13:50	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 13:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 13:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 13:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/16 13:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 13:50	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 13:50	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 13:50	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 13:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 13:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 13:50	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 13:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 13:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 13:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 13:50	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 13:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 13:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 13:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 13:50	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 13:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 13:50	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 13:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 13:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 13:50	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 13:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 13:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 13:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 13:50	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-7

Lab Sample ID: 480-110087-5

Date Collected: 11/23/16 12:30

Matrix: Water

Date Received: 11/23/16 14:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		12/03/16 13:50	1
Toluene-d8 (Surr)	100		80 - 120		12/03/16 13:50	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/03/16 13:50	1
Dibromofluoromethane (Surr)	103		75 - 123		12/03/16 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1221	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1232	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1242	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1248	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1254	ND		0.49	0.24	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1260	ND		0.49	0.24	ug/L		11/28/16 07:50	11/29/16 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		19 - 120	11/28/16 07:50	11/29/16 04:41	1
DCB Decachlorobiphenyl	61		19 - 120	11/28/16 07:50	11/29/16 04:41	1
Tetrachloro-m-xylene	76		39 - 121	11/28/16 07:50	11/29/16 04:41	1
Tetrachloro-m-xylene	87		39 - 121	11/28/16 07:50	11/29/16 04:41	1

Client Sample ID: MW-2R

Lab Sample ID: 480-110087-6

Date Collected: 11/23/16 13:45

Matrix: Water

Date Received: 11/23/16 14:50

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			12/03/16 14:17	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 14:17	1
1,1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 14:17	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 14:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 14:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 14:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 14:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 14:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 14:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 14:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 14:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 14:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 14:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 14:17	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 14:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 14:17	1
Acetone	ND		10	3.0	ug/L			12/03/16 14:17	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 14:17	1
Bromodichloromethane	0.50	J	1.0	0.39	ug/L			12/03/16 14:17	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 14:17	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 14:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 14:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 14:17	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-2R

Lab Sample ID: 480-110087-6

Date Collected: 11/23/16 13:45

Matrix: Water

Date Received: 11/23/16 14:50

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			12/03/16 14:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 14:17	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 14:17	1
Chloroform	1.2		1.0	0.34	ug/L			12/03/16 14:17	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 14:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 14:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 14:17	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 14:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 14:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 14:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 14:17	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 14:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 14:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 14:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 14:17	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 14:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 14:17	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 14:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 14:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 14:17	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 14:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 14:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 14:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/03/16 14:17	1
Toluene-d8 (Surr)	100		80 - 120		12/03/16 14:17	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/03/16 14:17	1
Dibromofluoromethane (Surr)	101		75 - 123		12/03/16 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.61	0.22	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1221	ND		0.61	0.22	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1232	ND		0.61	0.22	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1242	ND		0.61	0.22	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1248	ND		0.61	0.22	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1254	ND		0.61	0.31	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1260	ND		0.61	0.31	ug/L		11/28/16 07:50	11/29/16 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		19 - 120	11/28/16 07:50	11/29/16 04:57	1
DCB Decachlorobiphenyl	58		19 - 120	11/28/16 07:50	11/29/16 04:57	1
Tetrachloro-m-xylene	100		39 - 121	11/28/16 07:50	11/29/16 04:57	1
Tetrachloro-m-xylene	87		39 - 121	11/28/16 07:50	11/29/16 04:57	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-110087-7

Date Collected: 11/17/16 00:00

Matrix: Water

Date Received: 11/23/16 14:50

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			11/30/16 18:30	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/30/16 18:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/30/16 18:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/30/16 18:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/30/16 18:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/30/16 18:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/30/16 18:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/30/16 18:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/30/16 18:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/30/16 18:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/30/16 18:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/30/16 18:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/30/16 18:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/30/16 18:30	1
2-Hexanone	ND		5.0	1.2	ug/L			11/30/16 18:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/30/16 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/30/16 18:30	1
Acetone	ND		10	3.0	ug/L			11/30/16 18:30	1
Benzene	ND		1.0	0.41	ug/L			11/30/16 18:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/30/16 18:30	1
Bromoform	ND		1.0	0.26	ug/L			11/30/16 18:30	1
Bromomethane	ND	UJ	1.0	0.69	ug/L			11/30/16 18:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/30/16 18:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/30/16 18:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/30/16 18:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/30/16 18:30	1
Chloroethane	ND	UJ	1.0	0.32	ug/L			11/30/16 18:30	1
Chloroform	ND		1.0	0.34	ug/L			11/30/16 18:30	1
Chloromethane	ND		1.0	0.35	ug/L			11/30/16 18:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/30/16 18:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/30/16 18:30	1
Cyclohexane	ND		1.0	0.18	ug/L			11/30/16 18:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/30/16 18:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/30/16 18:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/30/16 18:30	1
Methyl acetate	ND		2.5	1.3	ug/L			11/30/16 18:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/30/16 18:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/30/16 18:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/30/16 18:30	1
Styrene	ND		1.0	0.73	ug/L			11/30/16 18:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/30/16 18:30	1
Toluene	ND		1.0	0.51	ug/L			11/30/16 18:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/30/16 18:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/30/16 18:30	1
Trichloroethene	ND		1.0	0.46	ug/L			11/30/16 18:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/30/16 18:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/30/16 18:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/30/16 18:30	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-110087-7

Date Collected: 11/17/16 00:00

Matrix: Water

Date Received: 11/23/16 14:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		11/30/16 18:30	1
Toluene-d8 (Surr)	99		80 - 120		11/30/16 18:30	1
4-Bromofluorobenzene (Surr)	103		73 - 120		11/30/16 18:30	1
Dibromofluoromethane (Surr)	101		75 - 123		11/30/16 18:30	1

Client Sample ID: DUP-112216

Lab Sample ID: 480-110087-8

Date Collected: 11/22/16 00:00

Matrix: Water

Date Received: 11/23/16 14:50

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			12/03/16 14:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 14:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 14:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 14:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 14:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 14:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 14:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 14:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 14:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 14:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 14:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 14:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 14:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 14:45	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 14:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 14:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 14:45	1
Acetone	ND		10	3.0	ug/L			12/03/16 14:45	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 14:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 14:45	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 14:45	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 14:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 14:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 14:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/16 14:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 14:45	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 14:45	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 14:45	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 14:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 14:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 14:45	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 14:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 14:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 14:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 14:45	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 14:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 14:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 14:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 14:45	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: DUP-112216

Lab Sample ID: 480-110087-8

Date Collected: 11/22/16 00:00

Matrix: Water

Date Received: 11/23/16 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			12/03/16 14:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 14:45	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 14:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 14:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 14:45	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 14:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 14:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 14:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/03/16 14:45	1
Toluene-d8 (Surr)	102		80 - 120		12/03/16 14:45	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/03/16 14:45	1
Dibromofluoromethane (Surr)	102		75 - 123		12/03/16 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1221	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1232	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1242	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1248	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1254	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1260	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		19 - 120	11/28/16 07:50	11/29/16 05:13	1
DCB Decachlorobiphenyl	85		19 - 120	11/28/16 07:50	11/29/16 05:13	1
Tetrachloro-m-xylene	95		39 - 121	11/28/16 07:50	11/29/16 05:13	1
Tetrachloro-m-xylene	104		39 - 121	11/28/16 07:50	11/29/16 05:13	1

TestAmerica Buffalo

APPENDIX D

2016 Groundwater Lab Analysis Reports (provided on CD)



Arcadis of New York, Inc.

855 Route 146

Suite 210

Clifton Park

New York 12065

Tel 518 250 7300

Fax 518 250 7301

www.arcadis.com

A decorative graphic consisting of three thin orange lines. One line is horizontal, extending across the width of the page. Two other lines are diagonal, intersecting the horizontal line and each other, creating a triangular shape in the bottom right corner.

APPENDIX D

2016 Groundwater Lab Analysis Reports



ANALYTICAL REPORT

Job Number: 480-110087-1

Job Description: GE Tonawanda GW/IDW

Contract Number: TAAT092507-R010110

For:

ARCADIS U.S. Inc

6723 Towpath Road

Syracuse, NY 13214-0066

Attention: Mr. Daniel A. Zuck



Approved for release.
Rebecca M Jones
Project Management Assistant I
12/7/2016 9:55 AM

Designee for

Melissa L Deyo, Project Manager I

10 Hazelwood Drive, Amherst, NY, 14228-2298

(716)504-9874

melissa.deyo@testamericainc.com

12/07/2016

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

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Job Narrative
480-110087-1

Receipt

The samples were received on 11/23/2016 2:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 9.6° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-334061 recovered outside acceptance criteria, low biased, for Bromomethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: TRIP BLANK (480-110087-7).

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 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.

Method(s) 8082A: All primary data for analytical batch 333712 is reported from the ZB-35 column.

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 GW/IDW

TestAmerica Job ID: 480-110087-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-110087-1	MW-5R	Water	11/22/16 12:35	11/23/16 14:50
480-110087-2	MW-4	Water	11/22/16 13:50	11/23/16 14:50
480-110087-3	MW-6	Water	11/22/16 16:35	11/23/16 14:50
480-110087-4	MW-8	Water	11/23/16 09:45	11/23/16 14:50
480-110087-5	MW-7	Water	11/23/16 12:30	11/23/16 14:50
480-110087-6	MW-2R	Water	11/23/16 13:45	11/23/16 14:50
480-110087-7	TRIP BLANK	Water	11/17/16 00:00	11/23/16 14:50
480-110087-8	DUP-112216	Water	11/22/16 00:00	11/23/16 14:50

Detection Summary

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-5R

Lab Sample ID: 480-110087-1

No Detections.

Client Sample ID: MW-4

Lab Sample ID: 480-110087-2

No Detections.

Client Sample ID: MW-6

Lab Sample ID: 480-110087-3

No Detections.

Client Sample ID: MW-8

Lab Sample ID: 480-110087-4

No Detections.

Client Sample ID: MW-7

Lab Sample ID: 480-110087-5

No Detections.

Client Sample ID: MW-2R

Lab Sample ID: 480-110087-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Bromodichloromethane	0.50	J	1.0	0.39	ug/L	1			8260C	Total/NA
Chloroform	1.2		1.0	0.34	ug/L	1			8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-110087-7

No Detections.

Client Sample ID: DUP-112216

Lab Sample ID: 480-110087-8

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

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

TestAmerica Job ID: 480-110087-1

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

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 Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-5R

Date Collected: 11/22/16 12:35

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-1

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			12/03/16 12:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 12:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 12:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 12:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 12:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 12:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 12:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 12:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 12:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 12:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 12:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 12:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 12:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 12:00	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 12:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 12:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 12:00	1
Acetone	ND		10	3.0	ug/L			12/03/16 12:00	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 12:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 12:00	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 12:00	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 12:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 12:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 12:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/16 12:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 12:00	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 12:00	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 12:00	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 12:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 12:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 12:00	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 12:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 12:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 12:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 12:00	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 12:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 12:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 12:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 12:00	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 12:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 12:00	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 12:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 12:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 12:00	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 12:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 12:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 12:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 12:00	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-5R

Date Collected: 11/22/16 12:35

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/03/16 12:00	1
Toluene-d8 (Surr)	101		80 - 120		12/03/16 12:00	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/03/16 12:00	1
Dibromofluoromethane (Surr)	103		75 - 123		12/03/16 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.47	0.16	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1221	ND		0.47	0.16	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1232	ND		0.47	0.16	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1242	ND		0.47	0.16	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1248	ND		0.47	0.16	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1254	ND		0.47	0.23	ug/L		11/28/16 12:03	11/29/16 05:45	1
PCB-1260	ND		0.47	0.23	ug/L		11/28/16 12:03	11/29/16 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	116		19 - 120	11/28/16 12:03	11/29/16 05:45	1
DCB Decachlorobiphenyl	109		19 - 120	11/28/16 12:03	11/29/16 05:45	1
Tetrachloro-m-xylene	101		39 - 121	11/28/16 12:03	11/29/16 05:45	1
Tetrachloro-m-xylene	95		39 - 121	11/28/16 12:03	11/29/16 05:45	1

Client Sample ID: MW-4

Date Collected: 11/22/16 13:50

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-2

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			12/03/16 12:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 12:28	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 12:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 12:28	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 12:28	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 12:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 12:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 12:28	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 12:28	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 12:28	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 12:28	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 12:28	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 12:28	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 12:28	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 12:28	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 12:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 12:28	1
Acetone	ND		10	3.0	ug/L			12/03/16 12:28	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 12:28	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 12:28	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 12:28	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 12:28	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 12:28	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 12:28	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-4
Date Collected: 11/22/16 13:50
Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-2
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			12/03/16 12:28	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 12:28	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 12:28	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 12:28	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 12:28	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 12:28	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 12:28	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 12:28	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 12:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 12:28	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 12:28	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 12:28	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 12:28	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 12:28	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 12:28	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 12:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 12:28	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 12:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 12:28	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 12:28	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 12:28	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 12:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 12:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 12:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/03/16 12:28	1
Toluene-d8 (Surr)	101		80 - 120		12/03/16 12:28	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/03/16 12:28	1
Dibromofluoromethane (Surr)	100		75 - 123		12/03/16 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1221	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1232	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1242	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1248	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1254	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 03:53	1
PCB-1260	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		19 - 120	11/28/16 07:50	11/29/16 03:53	1
DCB Decachlorobiphenyl	76		19 - 120	11/28/16 07:50	11/29/16 03:53	1
Tetrachloro-m-xylene	94		39 - 121	11/28/16 07:50	11/29/16 03:53	1
Tetrachloro-m-xylene	92		39 - 121	11/28/16 07:50	11/29/16 03:53	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-6
Date Collected: 11/22/16 16:35
Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-3
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			12/03/16 12:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 12:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 12:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 12:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 12:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 12:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 12:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 12:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 12:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 12:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 12:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 12:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 12:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 12:55	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 12:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 12:55	1
Acetone	ND		10	3.0	ug/L			12/03/16 12:55	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 12:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 12:55	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 12:55	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 12:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 12:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 12:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/16 12:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 12:55	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 12:55	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 12:55	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 12:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 12:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 12:55	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 12:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 12:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 12:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 12:55	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 12:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 12:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 12:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 12:55	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 12:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 12:55	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 12:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 12:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 12:55	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 12:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 12:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 12:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 12:55	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-6
Date Collected: 11/22/16 16:35
Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		12/03/16 12:55	1
Toluene-d8 (Surr)	102		80 - 120		12/03/16 12:55	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/03/16 12:55	1
Dibromofluoromethane (Surr)	102		75 - 123		12/03/16 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1221	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1232	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1242	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1248	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1254	ND		0.49	0.24	ug/L		11/28/16 07:50	11/29/16 04:09	1
PCB-1260	ND		0.49	0.24	ug/L		11/28/16 07:50	11/29/16 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		19 - 120	11/28/16 07:50	11/29/16 04:09	1
DCB Decachlorobiphenyl	72		19 - 120	11/28/16 07:50	11/29/16 04:09	1
Tetrachloro-m-xylene	93		39 - 121	11/28/16 07:50	11/29/16 04:09	1
Tetrachloro-m-xylene	92		39 - 121	11/28/16 07:50	11/29/16 04:09	1

Client Sample ID: MW-8
Date Collected: 11/23/16 09:45
Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-4
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			12/03/16 13:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 13:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 13:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 13:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 13:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 13:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 13:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 13:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 13:23	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 13:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 13:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 13:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 13:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 13:23	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 13:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 13:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 13:23	1
Acetone	ND		10	3.0	ug/L			12/03/16 13:23	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 13:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 13:23	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 13:23	1
Bromomethane	ND	F2	1.0	0.69	ug/L			12/03/16 13:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 13:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 13:23	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-8
Date Collected: 11/23/16 09:45
Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-4
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			12/03/16 13:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 13:23	1
Chloroethane	ND	F1	1.0	0.32	ug/L			12/03/16 13:23	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 13:23	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 13:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 13:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 13:23	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 13:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 13:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 13:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 13:23	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 13:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 13:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 13:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 13:23	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 13:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 13:23	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 13:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 13:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 13:23	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 13:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 13:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 13:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/03/16 13:23	1
Toluene-d8 (Surr)	99		80 - 120		12/03/16 13:23	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/03/16 13:23	1
Dibromofluoromethane (Surr)	100		75 - 123		12/03/16 13:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1221	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1232	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1242	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1248	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1254	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 04:25	1
PCB-1260	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 04:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		19 - 120	11/28/16 07:50	11/29/16 04:25	1
DCB Decachlorobiphenyl	64		19 - 120	11/28/16 07:50	11/29/16 04:25	1
Tetrachloro-m-xylene	87		39 - 121	11/28/16 07:50	11/29/16 04:25	1
Tetrachloro-m-xylene	93		39 - 121	11/28/16 07:50	11/29/16 04:25	1

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-7
Date Collected: 11/23/16 12:30
Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-5
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			12/03/16 13:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 13:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 13:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 13:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 13:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 13:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 13:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 13:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 13:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 13:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 13:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 13:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 13:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 13:50	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 13:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 13:50	1
Acetone	ND		10	3.0	ug/L			12/03/16 13:50	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 13:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 13:50	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 13:50	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 13:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 13:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 13:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/16 13:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 13:50	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 13:50	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 13:50	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 13:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 13:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 13:50	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 13:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 13:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 13:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 13:50	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 13:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 13:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 13:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 13:50	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 13:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 13:50	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 13:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 13:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 13:50	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 13:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 13:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 13:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 13:50	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-7
Date Collected: 11/23/16 12:30
Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		12/03/16 13:50	1
Toluene-d8 (Surr)	100		80 - 120		12/03/16 13:50	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/03/16 13:50	1
Dibromofluoromethane (Surr)	103		75 - 123		12/03/16 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1221	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1232	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1242	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1248	ND		0.49	0.17	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1254	ND		0.49	0.24	ug/L		11/28/16 07:50	11/29/16 04:41	1
PCB-1260	ND		0.49	0.24	ug/L		11/28/16 07:50	11/29/16 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		19 - 120	11/28/16 07:50	11/29/16 04:41	1
DCB Decachlorobiphenyl	61		19 - 120	11/28/16 07:50	11/29/16 04:41	1
Tetrachloro-m-xylene	76		39 - 121	11/28/16 07:50	11/29/16 04:41	1
Tetrachloro-m-xylene	87		39 - 121	11/28/16 07:50	11/29/16 04:41	1

Client Sample ID: MW-2R
Date Collected: 11/23/16 13:45
Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-6
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			12/03/16 14:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 14:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 14:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 14:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 14:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 14:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 14:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 14:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 14:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 14:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 14:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 14:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 14:17	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 14:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 14:17	1
Acetone	ND		10	3.0	ug/L			12/03/16 14:17	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 14:17	1
Bromodichloromethane	0.50	J	1.0	0.39	ug/L			12/03/16 14:17	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 14:17	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 14:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 14:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 14:17	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-2R

Date Collected: 11/23/16 13:45

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-6

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			12/03/16 14:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 14:17	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 14:17	1
Chloroform	1.2		1.0	0.34	ug/L			12/03/16 14:17	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 14:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 14:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 14:17	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 14:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 14:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 14:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 14:17	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 14:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 14:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 14:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 14:17	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 14:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 14:17	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 14:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 14:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 14:17	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 14:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 14:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 14:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/03/16 14:17	1
Toluene-d8 (Surr)	100		80 - 120		12/03/16 14:17	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/03/16 14:17	1
Dibromofluoromethane (Surr)	101		75 - 123		12/03/16 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.61	0.22	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1221	ND		0.61	0.22	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1232	ND		0.61	0.22	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1242	ND		0.61	0.22	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1248	ND		0.61	0.22	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1254	ND		0.61	0.31	ug/L		11/28/16 07:50	11/29/16 04:57	1
PCB-1260	ND		0.61	0.31	ug/L		11/28/16 07:50	11/29/16 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		19 - 120	11/28/16 07:50	11/29/16 04:57	1
DCB Decachlorobiphenyl	58		19 - 120	11/28/16 07:50	11/29/16 04:57	1
Tetrachloro-m-xylene	100		39 - 121	11/28/16 07:50	11/29/16 04:57	1
Tetrachloro-m-xylene	87		39 - 121	11/28/16 07:50	11/29/16 04:57	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-110087-7

Date Collected: 11/17/16 00:00

Matrix: Water

Date Received: 11/23/16 14:50

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			11/30/16 18:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/30/16 18:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/30/16 18:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/30/16 18:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/30/16 18:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/30/16 18:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/30/16 18:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/30/16 18:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/30/16 18:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/30/16 18:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/30/16 18:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/30/16 18:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/30/16 18:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/30/16 18:30	1
2-Hexanone	ND		5.0	1.2	ug/L			11/30/16 18:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/30/16 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/30/16 18:30	1
Acetone	ND		10	3.0	ug/L			11/30/16 18:30	1
Benzene	ND		1.0	0.41	ug/L			11/30/16 18:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/30/16 18:30	1
Bromoform	ND		1.0	0.26	ug/L			11/30/16 18:30	1
Bromomethane	ND		1.0	0.69	ug/L			11/30/16 18:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/30/16 18:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/30/16 18:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/30/16 18:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/30/16 18:30	1
Chloroethane	ND		1.0	0.32	ug/L			11/30/16 18:30	1
Chloroform	ND		1.0	0.34	ug/L			11/30/16 18:30	1
Chloromethane	ND		1.0	0.35	ug/L			11/30/16 18:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/30/16 18:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/30/16 18:30	1
Cyclohexane	ND		1.0	0.18	ug/L			11/30/16 18:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/30/16 18:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/30/16 18:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/30/16 18:30	1
Methyl acetate	ND		2.5	1.3	ug/L			11/30/16 18:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/30/16 18:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/30/16 18:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/30/16 18:30	1
Styrene	ND		1.0	0.73	ug/L			11/30/16 18:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/30/16 18:30	1
Toluene	ND		1.0	0.51	ug/L			11/30/16 18:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/30/16 18:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/30/16 18:30	1
Trichloroethene	ND		1.0	0.46	ug/L			11/30/16 18:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/30/16 18:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/30/16 18:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/30/16 18:30	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: TRIP BLANK

Date Collected: 11/17/16 00:00

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-7

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		11/30/16 18:30	1
Toluene-d8 (Surr)	99		80 - 120		11/30/16 18:30	1
4-Bromofluorobenzene (Surr)	103		73 - 120		11/30/16 18:30	1
Dibromofluoromethane (Surr)	101		75 - 123		11/30/16 18:30	1

Client Sample ID: DUP-112216

Date Collected: 11/22/16 00:00

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-8

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			12/03/16 14:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 14:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 14:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 14:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 14:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 14:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 14:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 14:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 14:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 14:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 14:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 14:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 14:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 14:45	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 14:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 14:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 14:45	1
Acetone	ND		10	3.0	ug/L			12/03/16 14:45	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 14:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 14:45	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 14:45	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 14:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 14:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 14:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/16 14:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 14:45	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 14:45	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 14:45	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 14:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 14:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 14:45	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 14:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 14:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 14:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 14:45	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 14:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 14:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 14:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 14:45	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: DUP-112216

Lab Sample ID: 480-110087-8

Date Collected: 11/22/16 00:00

Matrix: Water

Date Received: 11/23/16 14:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			12/03/16 14:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 14:45	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 14:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 14:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 14:45	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 14:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 14:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 14:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					12/03/16 14:45	1
Toluene-d8 (Surr)	102		80 - 120					12/03/16 14:45	1
4-Bromofluorobenzene (Surr)	101		73 - 120					12/03/16 14:45	1
Dibromofluoromethane (Surr)	102		75 - 123					12/03/16 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1221	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1232	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1242	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1248	ND		0.48	0.17	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1254	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 05:13	1
PCB-1260	ND		0.48	0.24	ug/L		11/28/16 07:50	11/29/16 05:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		19 - 120				11/28/16 07:50	11/29/16 05:13	1
DCB Decachlorobiphenyl	85		19 - 120				11/28/16 07:50	11/29/16 05:13	1
Tetrachloro-m-xylene	95		39 - 121				11/28/16 07:50	11/29/16 05:13	1
Tetrachloro-m-xylene	104		39 - 121				11/28/16 07:50	11/29/16 05:13	1

Surrogate Summary

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

TestAmerica Job ID: 480-110087-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (77-120)	TOL (80-120)	BFB (73-120)	DBFM (75-123)
480-110087-1	MW-5R	102	101	102	103
480-110087-2	MW-4	101	101	101	100
480-110087-3	MW-6	103	102	103	102
480-110087-4	MW-8	100	99	101	100
480-110087-4 MS	MW-8	103	103	108	104
480-110087-4 MSD	MW-8	104	102	107	103
480-110087-5	MW-7	103	100	102	103
480-110087-6	MW-2R	102	100	101	101
480-110087-7	TRIP BLANK	103	99	103	101
480-110087-8	DUP-112216	101	102	101	102
LCS 480-334061/17	Lab Control Sample	95	98	104	100
LCS 480-334557/4	Lab Control Sample	100	103	108	101
MB 480-334061/7	Method Blank	98	98	102	99
MB 480-334557/6	Method Blank	101	101	102	101

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCB1 (19-120)	DCB2 (19-120)	TCX1 (39-121)	TCX2 (39-121)
480-110087-1	MW-5R	116	109	101	95
480-110087-2	MW-4	77	76	94	92
480-110087-3	MW-6	75	72	93	92
480-110087-4	MW-8	66	64	87	93
480-110087-4 MS	MW-8	68	69	101	87
480-110087-4 MSD	MW-8	70	68	89	99
480-110087-5	MW-7	62	61	76	87
480-110087-6	MW-2R	63	58	100	87
480-110087-8	DUP-112216	84	85	95	104
LCS 480-333619/2-A	Lab Control Sample	65	59	99	83
MB 480-333619/1-A	Method Blank	69	60	83	85

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

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

TestAmerica Job ID: 480-110087-1

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

Lab Sample ID: MB 480-334061/7

Matrix: Water

Analysis Batch: 334061

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			11/30/16 16:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/30/16 16:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/30/16 16:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/30/16 16:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/30/16 16:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/30/16 16:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/30/16 16:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/30/16 16:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/30/16 16:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/30/16 16:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/30/16 16:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/30/16 16:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/30/16 16:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/30/16 16:52	1
2-Hexanone	ND		5.0	1.2	ug/L			11/30/16 16:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/30/16 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/30/16 16:52	1
Acetone	ND		10	3.0	ug/L			11/30/16 16:52	1
Benzene	ND		1.0	0.41	ug/L			11/30/16 16:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/30/16 16:52	1
Bromoform	ND		1.0	0.26	ug/L			11/30/16 16:52	1
Bromomethane	ND		1.0	0.69	ug/L			11/30/16 16:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/30/16 16:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/30/16 16:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/30/16 16:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/30/16 16:52	1
Chloroethane	ND		1.0	0.32	ug/L			11/30/16 16:52	1
Chloroform	ND		1.0	0.34	ug/L			11/30/16 16:52	1
Chloromethane	ND		1.0	0.35	ug/L			11/30/16 16:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/30/16 16:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/30/16 16:52	1
Cyclohexane	ND		1.0	0.18	ug/L			11/30/16 16:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/30/16 16:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/30/16 16:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/30/16 16:52	1
Methyl acetate	ND		2.5	1.3	ug/L			11/30/16 16:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/30/16 16:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/30/16 16:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/30/16 16:52	1
Styrene	ND		1.0	0.73	ug/L			11/30/16 16:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/30/16 16:52	1
Toluene	ND		1.0	0.51	ug/L			11/30/16 16:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/30/16 16:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/30/16 16:52	1
Trichloroethene	ND		1.0	0.46	ug/L			11/30/16 16:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/30/16 16:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/30/16 16:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/30/16 16:52	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-110087-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		11/30/16 16:52	1
Toluene-d8 (Surr)	98		80 - 120		11/30/16 16:52	1
4-Bromofluorobenzene (Surr)	102		73 - 120		11/30/16 16:52	1
Dibromofluoromethane (Surr)	99		75 - 123		11/30/16 16:52	1

Lab Sample ID: LCS 480-334061/17

Matrix: Water

Analysis Batch: 334061

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.0		ug/L		88	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.4		ug/L		82	76 - 120
1,1,2-Trichloroethane	25.0	22.3		ug/L		89	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	19.7		ug/L		79	61 - 148
1,1-Dichloroethane	25.0	21.5		ug/L		86	77 - 120
1,1-Dichloroethene	25.0	19.7		ug/L		79	66 - 127
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		98	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	20.0		ug/L		80	56 - 134
1,2-Dibromoethane	25.0	22.6		ug/L		90	77 - 120
1,2-Dichlorobenzene	25.0	22.6		ug/L		90	80 - 124
1,2-Dichloroethane	25.0	22.6		ug/L		90	75 - 120
1,2-Dichloropropane	25.0	22.6		ug/L		90	76 - 120
1,3-Dichlorobenzene	25.0	22.7		ug/L		91	77 - 120
1,4-Dichlorobenzene	25.0	22.2		ug/L		89	80 - 120
2-Hexanone	125	103		ug/L		82	65 - 127
2-Butanone (MEK)	125	97.5		ug/L		78	57 - 140
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		81	71 - 125
Acetone	125	98.0		ug/L		78	56 - 142
Benzene	25.0	21.8		ug/L		87	71 - 124
Bromodichloromethane	25.0	23.2		ug/L		93	80 - 122
Bromoform	25.0	26.7		ug/L		107	61 - 132
Bromomethane	25.0	27.8		ug/L		111	55 - 144
Carbon disulfide	25.0	20.3		ug/L		81	59 - 134
Carbon tetrachloride	25.0	21.7		ug/L		87	72 - 134
Chlorobenzene	25.0	22.6		ug/L		90	80 - 120
Dibromochloromethane	25.0	24.7		ug/L		99	75 - 125
Chloroethane	25.0	30.9		ug/L		123	69 - 136
Chloroform	25.0	22.0		ug/L		88	73 - 127
Chloromethane	25.0	23.2		ug/L		93	68 - 124
cis-1,2-Dichloroethene	25.0	23.4		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	74 - 124
Cyclohexane	25.0	19.9		ug/L		80	59 - 135
Dichlorodifluoromethane	25.0	25.2		ug/L		101	59 - 135
Ethylbenzene	25.0	23.1		ug/L		92	77 - 123
Isopropylbenzene	25.0	22.4		ug/L		89	77 - 122
Methyl acetate	125	94.8		ug/L		76	74 - 133
Methyl tert-butyl ether	25.0	23.5		ug/L		94	77 - 120
Methylcyclohexane	25.0	20.7		ug/L		83	68 - 134
Methylene Chloride	25.0	23.1		ug/L		92	75 - 124
Styrene	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	25.0	22.2		ug/L		89	74 - 122
Toluene	25.0	22.3		ug/L		89	80 - 122
trans-1,2-Dichloroethene	25.0	21.6		ug/L		87	73 - 127

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-110087-1

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

Lab Sample ID: LCS 480-334061/17

Matrix: Water

Analysis Batch: 334061

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	25.0	22.2		ug/L		89	74 - 123
Trichlorofluoromethane	25.0	24.9		ug/L		100	62 - 150
Vinyl chloride	25.0	24.4		ug/L		98	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123

Lab Sample ID: MB 480-334557/6

Matrix: Water

Analysis Batch: 334557

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			12/03/16 11:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/03/16 11:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/03/16 11:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/03/16 11:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/03/16 11:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/03/16 11:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/03/16 11:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/03/16 11:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/03/16 11:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/03/16 11:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/03/16 11:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/03/16 11:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/03/16 11:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/03/16 11:17	1
2-Hexanone	ND		5.0	1.2	ug/L			12/03/16 11:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/03/16 11:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/03/16 11:17	1
Acetone	ND		10	3.0	ug/L			12/03/16 11:17	1
Benzene	ND		1.0	0.41	ug/L			12/03/16 11:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/03/16 11:17	1
Bromoform	ND		1.0	0.26	ug/L			12/03/16 11:17	1
Bromomethane	ND		1.0	0.69	ug/L			12/03/16 11:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/03/16 11:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/03/16 11:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/03/16 11:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/03/16 11:17	1
Chloroethane	ND		1.0	0.32	ug/L			12/03/16 11:17	1
Chloroform	ND		1.0	0.34	ug/L			12/03/16 11:17	1
Chloromethane	ND		1.0	0.35	ug/L			12/03/16 11:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/03/16 11:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/03/16 11:17	1
Cyclohexane	ND		1.0	0.18	ug/L			12/03/16 11:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/03/16 11:17	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-110087-1

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

Lab Sample ID: MB 480-334557/6

Matrix: Water

Analysis Batch: 334557

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			12/03/16 11:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/03/16 11:17	1
Methyl acetate	ND		2.5	1.3	ug/L			12/03/16 11:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/03/16 11:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/03/16 11:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/03/16 11:17	1
Styrene	ND		1.0	0.73	ug/L			12/03/16 11:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/03/16 11:17	1
Toluene	ND		1.0	0.51	ug/L			12/03/16 11:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/03/16 11:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/03/16 11:17	1
Trichloroethene	ND		1.0	0.46	ug/L			12/03/16 11:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/03/16 11:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/03/16 11:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/03/16 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/03/16 11:17	1
Toluene-d8 (Surr)	101		80 - 120		12/03/16 11:17	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/03/16 11:17	1
Dibromofluoromethane (Surr)	101		75 - 123		12/03/16 11:17	1

Lab Sample ID: LCS 480-334557/4

Matrix: Water

Analysis Batch: 334557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.4		ug/L		89	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.3		ug/L		81	61 - 148
1,1-Dichloroethane	25.0	21.9		ug/L		87	77 - 120
1,1-Dichloroethene	25.0	20.0		ug/L		80	66 - 127
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.6		ug/L		94	56 - 134
1,2-Dibromoethane	25.0	24.2		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	23.3		ug/L		93	75 - 120
1,2-Dichloropropane	25.0	23.1		ug/L		92	76 - 120
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	23.1		ug/L		92	80 - 120
2-Hexanone	125	131		ug/L		105	65 - 127
2-Butanone (MEK)	125	128		ug/L		103	57 - 140
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	71 - 125
Acetone	125	142		ug/L		114	56 - 142
Benzene	25.0	22.3		ug/L		89	71 - 124
Bromodichloromethane	25.0	23.5		ug/L		94	80 - 122

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-110087-1

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

Lab Sample ID: LCS 480-334557/4

Matrix: Water

Analysis Batch: 334557

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	26.5		ug/L		106	61 - 132
Bromomethane	25.0	24.1		ug/L		96	55 - 144
Carbon disulfide	25.0	19.9		ug/L		79	59 - 134
Carbon tetrachloride	25.0	22.4		ug/L		90	72 - 134
Chlorobenzene	25.0	23.3		ug/L		93	80 - 120
Dibromochloromethane	25.0	25.1		ug/L		101	75 - 125
Chloroethane	25.0	29.9		ug/L		120	69 - 136
Chloroform	25.0	22.4		ug/L		90	73 - 127
Chloromethane	25.0	19.5		ug/L		78	68 - 124
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	23.6		ug/L		94	74 - 124
Cyclohexane	25.0	20.2		ug/L		81	59 - 135
Dichlorodifluoromethane	25.0	20.3		ug/L		81	59 - 135
Ethylbenzene	25.0	23.6		ug/L		94	77 - 123
Isopropylbenzene	25.0	23.4		ug/L		94	77 - 122
Methyl acetate	125	115		ug/L		92	74 - 133
Methyl tert-butyl ether	25.0	23.3		ug/L		93	77 - 120
Methylcyclohexane	25.0	20.7		ug/L		83	68 - 134
Methylene Chloride	25.0	23.1		ug/L		92	75 - 124
Styrene	25.0	25.1		ug/L		100	80 - 120
Tetrachloroethene	25.0	22.9		ug/L		91	74 - 122
Toluene	25.0	23.1		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	22.0		ug/L		88	73 - 127
Trichloroethene	25.0	22.6		ug/L		90	74 - 123
Trichlorofluoromethane	25.0	23.7		ug/L		95	62 - 150
Vinyl chloride	25.0	20.8		ug/L		83	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
Toluene-d8 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Lab Sample ID: 480-110087-4 MS

Matrix: Water

Analysis Batch: 334557

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	26.8		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	25.9		ug/L		104	76 - 120
1,1,2-Trichloroethane	ND		25.0	26.7		ug/L		107	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.8		ug/L		91	61 - 148
1,1-Dichloroethane	ND		25.0	25.8		ug/L		103	77 - 120
1,1-Dichloroethene	ND		25.0	24.2		ug/L		97	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	25.2		ug/L		101	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	25.9		ug/L		103	56 - 134
1,2-Dibromoethane	ND		25.0	27.0		ug/L		108	77 - 120

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-110087-1

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

Lab Sample ID: 480-110087-4 MS

Matrix: Water

Analysis Batch: 334557

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-Dichlorobenzene	ND		25.0	25.5		ug/L		102	80 - 124
1,2-Dichloroethane	ND		25.0	26.5		ug/L		106	75 - 120
1,2-Dichloropropane	ND		25.0	26.6		ug/L		106	76 - 120
1,3-Dichlorobenzene	ND		25.0	25.8		ug/L		103	77 - 120
1,4-Dichlorobenzene	ND		25.0	25.2		ug/L		101	78 - 124
2-Hexanone	ND		125	145		ug/L		116	65 - 127
2-Butanone (MEK)	ND		125	138		ug/L		111	57 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	140		ug/L		112	71 - 125
Acetone	ND		125	148		ug/L		118	56 - 142
Benzene	ND		25.0	26.6		ug/L		107	71 - 124
Bromodichloromethane	ND		25.0	27.0		ug/L		108	80 - 122
Bromoform	ND		25.0	29.6		ug/L		118	61 - 132
Bromomethane	ND	F2	25.0	35.8		ug/L		143	55 - 144
Carbon disulfide	ND		25.0	24.8		ug/L		99	59 - 134
Carbon tetrachloride	ND		25.0	26.4		ug/L		105	72 - 134
Chlorobenzene	ND		25.0	26.4		ug/L		106	80 - 120
Dibromochloromethane	ND		25.0	28.2		ug/L		113	75 - 125
Chloroethane	ND	F1	25.0	35.6	F1	ug/L		142	69 - 136
Chloroform	ND		25.0	26.6		ug/L		106	73 - 127
Chloromethane	ND		25.0	23.4		ug/L		94	68 - 124
cis-1,2-Dichloroethene	ND		25.0	27.6		ug/L		111	74 - 124
cis-1,3-Dichloropropene	ND		25.0	25.5		ug/L		102	74 - 124
Cyclohexane	ND		25.0	22.9		ug/L		92	59 - 135
Dichlorodifluoromethane	ND		25.0	22.2		ug/L		89	59 - 135
Ethylbenzene	ND		25.0	27.6		ug/L		111	77 - 123
Isopropylbenzene	ND		25.0	26.5		ug/L		106	77 - 122
Methyl acetate	ND		125	124		ug/L		100	74 - 133
Methyl tert-butyl ether	ND		25.0	25.3		ug/L		101	77 - 120
Methylcyclohexane	ND		25.0	22.9		ug/L		92	68 - 134
Methylene Chloride	ND		25.0	26.6		ug/L		106	75 - 124
Styrene	ND		25.0	28.2		ug/L		113	80 - 120
Tetrachloroethene	ND		25.0	26.2		ug/L		105	74 - 122
Toluene	ND		25.0	26.4		ug/L		106	80 - 122
trans-1,2-Dichloroethene	ND		25.0	26.5		ug/L		106	73 - 127
Trichloroethene	ND		25.0	26.1		ug/L		104	74 - 123
Trichlorofluoromethane	ND		25.0	26.4		ug/L		106	62 - 150
Vinyl chloride	ND		25.0	23.3		ug/L		93	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
Toluene-d8 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123

QC Sample Results

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

TestAmerica Job ID: 480-110087-1

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

Lab Sample ID: 480-110087-4 MSD

Matrix: Water

Analysis Batch: 334557

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	26.5		ug/L		106	73 - 126	1	15
1,1,2,2-Tetrachloroethane	ND		25.0	25.3		ug/L		101	76 - 120	3	15
1,1,2-Trichloroethane	ND		25.0	26.7		ug/L		107	76 - 122	0	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.3		ug/L		89	61 - 148	2	20
1,1-Dichloroethane	ND		25.0	24.9		ug/L		100	77 - 120	3	20
1,1-Dichloroethene	ND		25.0	23.6		ug/L		94	66 - 127	3	16
1,2,4-Trichlorobenzene	ND		25.0	25.4		ug/L		101	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.7		ug/L		103	56 - 134	1	15
1,2-Dibromoethane	ND		25.0	26.3		ug/L		105	77 - 120	2	15
1,2-Dichlorobenzene	ND		25.0	25.1		ug/L		100	80 - 124	1	20
1,2-Dichloroethane	ND		25.0	25.7		ug/L		103	75 - 120	3	20
1,2-Dichloropropane	ND		25.0	26.2		ug/L		105	76 - 120	2	20
1,3-Dichlorobenzene	ND		25.0	25.8		ug/L		103	77 - 120	0	20
1,4-Dichlorobenzene	ND		25.0	25.0		ug/L		100	78 - 124	1	20
2-Hexanone	ND		125	142		ug/L		114	65 - 127	2	15
2-Butanone (MEK)	ND		125	136		ug/L		109	57 - 140	2	20
4-Methyl-2-pentanone (MIBK)	ND		125	137		ug/L		110	71 - 125	2	35
Acetone	ND		125	140		ug/L		112	56 - 142	5	15
Benzene	ND		25.0	25.8		ug/L		103	71 - 124	3	13
Bromodichloromethane	ND		25.0	26.6		ug/L		107	80 - 122	1	15
Bromoform	ND		25.0	30.0		ug/L		120	61 - 132	1	15
Bromomethane	ND	F2	25.0	25.8	F2	ug/L		103	55 - 144	32	15
Carbon disulfide	ND		25.0	23.8		ug/L		95	59 - 134	4	15
Carbon tetrachloride	ND		25.0	26.1		ug/L		104	72 - 134	1	15
Chlorobenzene	ND		25.0	26.2		ug/L		105	80 - 120	1	25
Dibromochloromethane	ND		25.0	28.0		ug/L		112	75 - 125	1	15
Chloroethane	ND	F1	25.0	33.7		ug/L		135	69 - 136	5	15
Chloroform	ND		25.0	25.9		ug/L		103	73 - 127	3	20
Chloromethane	ND		25.0	22.6		ug/L		91	68 - 124	3	15
cis-1,2-Dichloroethene	ND		25.0	26.9		ug/L		107	74 - 124	3	15
cis-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	74 - 124	1	15
Cyclohexane	ND		25.0	22.5		ug/L		90	59 - 135	2	20
Dichlorodifluoromethane	ND		25.0	22.3		ug/L		89	59 - 135	0	20
Ethylbenzene	ND		25.0	27.2		ug/L		109	77 - 123	2	15
Isopropylbenzene	ND		25.0	26.3		ug/L		105	77 - 122	1	20
Methyl acetate	ND		125	123		ug/L		98	74 - 133	1	20
Methyl tert-butyl ether	ND		25.0	25.6		ug/L		103	77 - 120	1	37
Methylcyclohexane	ND		25.0	22.6		ug/L		90	68 - 134	1	20
Methylene Chloride	ND		25.0	26.1		ug/L		104	75 - 124	2	15
Styrene	ND		25.0	28.1		ug/L		112	80 - 120	0	20
Tetrachloroethene	ND		25.0	26.1		ug/L		104	74 - 122	0	20
Toluene	ND		25.0	26.3		ug/L		105	80 - 122	1	15
trans-1,2-Dichloroethene	ND		25.0	25.2		ug/L		101	73 - 127	5	20
Trichloroethene	ND		25.0	25.5		ug/L		102	74 - 123	2	16
Trichlorofluoromethane	ND		25.0	26.6		ug/L		106	62 - 150	1	20
Vinyl chloride	ND		25.0	24.4		ug/L		98	65 - 133	5	15

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-110087-1

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

Lab Sample ID: 480-110087-4 MSD

Matrix: Water

Analysis Batch: 334557

Client Sample ID: MW-8

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123

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

Lab Sample ID: MB 480-333619/1-A

Matrix: Water

Analysis Batch: 333712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 333619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		11/28/16 07:50	11/29/16 01:29	1
PCB-1221	ND		0.50	0.18	ug/L		11/28/16 07:50	11/29/16 01:29	1
PCB-1232	ND		0.50	0.18	ug/L		11/28/16 07:50	11/29/16 01:29	1
PCB-1242	ND		0.50	0.18	ug/L		11/28/16 07:50	11/29/16 01:29	1
PCB-1248	ND		0.50	0.18	ug/L		11/28/16 07:50	11/29/16 01:29	1
PCB-1254	ND		0.50	0.25	ug/L		11/28/16 07:50	11/29/16 01:29	1
PCB-1260	ND		0.50	0.25	ug/L		11/28/16 07:50	11/29/16 01:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		19 - 120	11/28/16 07:50	11/29/16 01:29	1
DCB Decachlorobiphenyl	60		19 - 120	11/28/16 07:50	11/29/16 01:29	1
Tetrachloro-m-xylene	83		39 - 121	11/28/16 07:50	11/29/16 01:29	1
Tetrachloro-m-xylene	85		39 - 121	11/28/16 07:50	11/29/16 01:29	1

Lab Sample ID: LCS 480-333619/2-A

Matrix: Water

Analysis Batch: 333712

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 333619

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.67		ug/L		92	62 - 130
PCB-1260	4.00	3.34		ug/L		84	56 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	65		19 - 120
DCB Decachlorobiphenyl	59		19 - 120
Tetrachloro-m-xylene	99		39 - 121
Tetrachloro-m-xylene	83		39 - 121

Lab Sample ID: 480-110087-4 MS

Matrix: Water

Analysis Batch: 333712

Client Sample ID: MW-8

Prep Type: Total/NA

Prep Batch: 333619

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		3.90	3.73		ug/L		96	28 - 150
PCB-1260	ND		3.90	2.83		ug/L		72	25 - 131

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-110087-1

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

Lab Sample ID: 480-110087-4 MS

Matrix: Water

Analysis Batch: 333712

Client Sample ID: MW-8

Prep Type: Total/NA

Prep Batch: 333619

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	68		19 - 120
DCB Decachlorobiphenyl	69		19 - 120
Tetrachloro-m-xylene	101		39 - 121
Tetrachloro-m-xylene	87		39 - 121

Lab Sample ID: 480-110087-4 MSD

Matrix: Water

Analysis Batch: 333712

Client Sample ID: MW-8

Prep Type: Total/NA

Prep Batch: 333619

	Sample	Sample	Spike	MSD	MSD				%Rec.	RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016	ND		3.79	4.03		ug/L		106	28 - 150	8	50
PCB-1260	ND		3.79	3.07		ug/L		81	25 - 131	8	50

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	70		19 - 120
DCB Decachlorobiphenyl	68		19 - 120
Tetrachloro-m-xylene	89		39 - 121
Tetrachloro-m-xylene	99		39 - 121

Definitions/Glossary

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

TestAmerica Job ID: 480-110087-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

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

TestAmerica Job ID: 480-110087-1

GC/MS VOA

Analysis Batch: 334061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110087-7	TRIP BLANK	Total/NA	Water	8260C	
MB 480-334061/7	Method Blank	Total/NA	Water	8260C	
LCS 480-334061/17	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 334557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110087-1	MW-5R	Total/NA	Water	8260C	
480-110087-2	MW-4	Total/NA	Water	8260C	
480-110087-3	MW-6	Total/NA	Water	8260C	
480-110087-4	MW-8	Total/NA	Water	8260C	
480-110087-5	MW-7	Total/NA	Water	8260C	
480-110087-6	MW-2R	Total/NA	Water	8260C	
480-110087-8	DUP-112216	Total/NA	Water	8260C	
MB 480-334557/6	Method Blank	Total/NA	Water	8260C	
LCS 480-334557/4	Lab Control Sample	Total/NA	Water	8260C	
480-110087-4 MS	MW-8	Total/NA	Water	8260C	
480-110087-4 MSD	MW-8	Total/NA	Water	8260C	

GC Semi VOA

Prep Batch: 333619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110087-1	MW-5R	Total/NA	Water	3510C	
480-110087-2	MW-4	Total/NA	Water	3510C	
480-110087-3	MW-6	Total/NA	Water	3510C	
480-110087-4	MW-8	Total/NA	Water	3510C	
480-110087-5	MW-7	Total/NA	Water	3510C	
480-110087-6	MW-2R	Total/NA	Water	3510C	
480-110087-8	DUP-112216	Total/NA	Water	3510C	
MB 480-333619/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-333619/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-110087-4 MS	MW-8	Total/NA	Water	3510C	
480-110087-4 MSD	MW-8	Total/NA	Water	3510C	

Analysis Batch: 333712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110087-1	MW-5R	Total/NA	Water	8082A	333619
480-110087-2	MW-4	Total/NA	Water	8082A	333619
480-110087-3	MW-6	Total/NA	Water	8082A	333619
480-110087-4	MW-8	Total/NA	Water	8082A	333619
480-110087-5	MW-7	Total/NA	Water	8082A	333619
480-110087-6	MW-2R	Total/NA	Water	8082A	333619
480-110087-8	DUP-112216	Total/NA	Water	8082A	333619
MB 480-333619/1-A	Method Blank	Total/NA	Water	8082A	333619
LCS 480-333619/2-A	Lab Control Sample	Total/NA	Water	8082A	333619
480-110087-4 MS	MW-8	Total/NA	Water	8082A	333619
480-110087-4 MSD	MW-8	Total/NA	Water	8082A	333619

Lab Chronicle

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-5R

Date Collected: 11/22/16 12:35

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334557	12/03/16 12:00	JWG	TAL BUF
Total/NA	Prep	3510C			333619	11/28/16 12:03	SMP	TAL BUF
Total/NA	Analysis	8082A		1	333712	11/29/16 05:45	JMO	TAL BUF

Client Sample ID: MW-4

Date Collected: 11/22/16 13:50

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334557	12/03/16 12:28	JWG	TAL BUF
Total/NA	Prep	3510C			333619	11/28/16 07:50	SMP	TAL BUF
Total/NA	Analysis	8082A		1	333712	11/29/16 03:53	JMO	TAL BUF

Client Sample ID: MW-6

Date Collected: 11/22/16 16:35

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334557	12/03/16 12:55	JWG	TAL BUF
Total/NA	Prep	3510C			333619	11/28/16 07:50	SMP	TAL BUF
Total/NA	Analysis	8082A		1	333712	11/29/16 04:09	JMO	TAL BUF

Client Sample ID: MW-8

Date Collected: 11/23/16 09:45

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334557	12/03/16 13:23	JWG	TAL BUF
Total/NA	Prep	3510C			333619	11/28/16 07:50	SMP	TAL BUF
Total/NA	Analysis	8082A		1	333712	11/29/16 04:25	JMO	TAL BUF

Client Sample ID: MW-7

Date Collected: 11/23/16 12:30

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334557	12/03/16 13:50	JWG	TAL BUF
Total/NA	Prep	3510C			333619	11/28/16 07:50	SMP	TAL BUF
Total/NA	Analysis	8082A		1	333712	11/29/16 04:41	JMO	TAL BUF

Lab Chronicle

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

TestAmerica Job ID: 480-110087-1

Client Sample ID: MW-2R

Date Collected: 11/23/16 13:45

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334557	12/03/16 14:17	JWG	TAL BUF
Total/NA	Prep	3510C			333619	11/28/16 07:50	SMP	TAL BUF
Total/NA	Analysis	8082A		1	333712	11/29/16 04:57	JMO	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 11/17/16 00:00

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334061	11/30/16 18:30	RRS	TAL BUF

Client Sample ID: DUP-112216

Date Collected: 11/22/16 00:00

Date Received: 11/23/16 14:50

Lab Sample ID: 480-110087-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	334557	12/03/16 14:45	JWG	TAL BUF
Total/NA	Prep	3510C			333619	11/28/16 07:50	SMP	TAL BUF
Total/NA	Analysis	8082A		1	333712	11/29/16 05:13	JMO	TAL BUF

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 480-110087-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 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	480-110087-1	103	102	101	102
MW-4	480-110087-2	100	101	101	101
MW-6	480-110087-3	102	103	102	103
MW-8	480-110087-4	100	100	99	101
MW-7	480-110087-5	103	103	100	102
MW-2R	480-110087-6	101	102	100	101
TRIP BLANK	480-110087-7	101	103	99	103
DUP-112216	480-110087-8	102	101	102	101
	MB 480-334061/7	99	98	98	102
	MB 480-334557/6	101	101	101	102
	LCS 480-334061/17	100	95	98	104
	LCS 480-334557/4	101	100	103	108
MW-8 MS	480-110087-4 MS	104	103	103	108
MW-8 MSD	480-110087-4 MSD	103	104	102	107

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

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: P20755.D
 Lab ID: LCS 480-334061/17 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	22.0	88	73-126	
1,1,2,2-Tetrachloroethane	25.0	20.4	82	76-120	
1,1,2-Trichloroethane	25.0	22.3	89	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	19.7	79	61-148	
1,1-Dichloroethane	25.0	21.5	86	77-120	
1,1-Dichloroethene	25.0	19.7	79	66-127	
1,2,4-Trichlorobenzene	25.0	24.4	98	79-122	
1,2-Dibromo-3-Chloropropane	25.0	20.0	80	56-134	
1,2-Dibromoethane	25.0	22.6	90	77-120	
1,2-Dichlorobenzene	25.0	22.6	90	80-124	
1,2-Dichloroethane	25.0	22.6	90	75-120	
1,2-Dichloropropane	25.0	22.6	90	76-120	
1,3-Dichlorobenzene	25.0	22.7	91	77-120	
1,4-Dichlorobenzene	25.0	22.2	89	80-120	
2-Hexanone	125	103	82	65-127	
2-Butanone (MEK)	125	97.5	78	57-140	
4-Methyl-2-pentanone (MIBK)	125	102	81	71-125	
Acetone	125	98.0	78	56-142	
Benzene	25.0	21.8	87	71-124	
Bromodichloromethane	25.0	23.2	93	80-122	
Bromoform	25.0	26.7	107	61-132	
Bromomethane	25.0	27.8	111	55-144	
Carbon disulfide	25.0	20.3	81	59-134	
Carbon tetrachloride	25.0	21.7	87	72-134	
Chlorobenzene	25.0	22.6	90	80-120	
Dibromochloromethane	25.0	24.7	99	75-125	
Chloroethane	25.0	30.9	123	69-136	
Chloroform	25.0	22.0	88	73-127	
Chloromethane	25.0	23.2	93	68-124	
cis-1,2-Dichloroethene	25.0	23.4	93	74-124	
cis-1,3-Dichloropropene	25.0	24.3	97	74-124	
Cyclohexane	25.0	19.9	80	59-135	
Dichlorodifluoromethane	25.0	25.2	101	59-135	
Ethylbenzene	25.0	23.1	92	77-123	
Isopropylbenzene	25.0	22.4	89	77-122	
Methyl acetate	125	94.8	76	74-133	
Methyl tert-butyl ether	25.0	23.5	94	77-120	
Methylcyclohexane	25.0	20.7	83	68-134	
Methylene Chloride	25.0	23.1	92	75-124	
Styrene	25.0	24.8	99	80-120	
Tetrachloroethene	25.0	22.2	89	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: P20755.D
Lab ID: LCS 480-334061/17 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	22.3	89	80-122	
trans-1,2-Dichloroethene	25.0	21.6	87	73-127	
Trichloroethene	25.0	22.2	89	74-123	
Trichlorofluoromethane	25.0	24.9	100	62-150	
Vinyl chloride	25.0	24.4	98	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: P20892.D
 Lab ID: LCS 480-334557/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	22.4	89	73-126	
1,1,2,2-Tetrachloroethane	25.0	23.0	92	76-120	
1,1,2-Trichloroethane	25.0	23.7	95	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.3	81	61-148	
1,1-Dichloroethane	25.0	21.9	87	77-120	
1,1-Dichloroethene	25.0	20.0	80	66-127	
1,2,4-Trichlorobenzene	25.0	23.6	94	79-122	
1,2-Dibromo-3-Chloropropane	25.0	23.6	94	56-134	
1,2-Dibromoethane	25.0	24.2	97	77-120	
1,2-Dichlorobenzene	25.0	23.2	93	80-124	
1,2-Dichloroethane	25.0	23.3	93	75-120	
1,2-Dichloropropane	25.0	23.1	92	76-120	
1,3-Dichlorobenzene	25.0	23.4	94	77-120	
1,4-Dichlorobenzene	25.0	23.1	92	80-120	
2-Hexanone	125	131	105	65-127	
2-Butanone (MEK)	125	128	103	57-140	
4-Methyl-2-pentanone (MIBK)	125	124	99	71-125	
Acetone	125	142	114	56-142	
Benzene	25.0	22.3	89	71-124	
Bromodichloromethane	25.0	23.5	94	80-122	
Bromoform	25.0	26.5	106	61-132	
Bromomethane	25.0	24.1	96	55-144	
Carbon disulfide	25.0	19.9	79	59-134	
Carbon tetrachloride	25.0	22.4	90	72-134	
Chlorobenzene	25.0	23.3	93	80-120	
Dibromochloromethane	25.0	25.1	101	75-125	
Chloroethane	25.0	29.9	120	69-136	
Chloroform	25.0	22.4	90	73-127	
Chloromethane	25.0	19.5	78	68-124	
cis-1,2-Dichloroethene	25.0	23.4	94	74-124	
cis-1,3-Dichloropropene	25.0	23.6	94	74-124	
Cyclohexane	25.0	20.2	81	59-135	
Dichlorodifluoromethane	25.0	20.3	81	59-135	
Ethylbenzene	25.0	23.6	94	77-123	
Isopropylbenzene	25.0	23.4	94	77-122	
Methyl acetate	125	115	92	74-133	
Methyl tert-butyl ether	25.0	23.3	93	77-120	
Methylcyclohexane	25.0	20.7	83	68-134	
Methylene Chloride	25.0	23.1	92	75-124	
Styrene	25.0	25.1	100	80-120	
Tetrachloroethene	25.0	22.9	91	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: P20892.D
Lab ID: LCS 480-334557/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	23.1	92	80-122	
trans-1,2-Dichloroethene	25.0	22.0	88	73-127	
Trichloroethene	25.0	22.6	90	74-123	
Trichlorofluoromethane	25.0	23.7	95	62-150	
Vinyl chloride	25.0	20.8	83	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: P20911.D
 Lab ID: 480-110087-4 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	26.8	107	73-126	
1,1,2,2-Tetrachloroethane	25.0	ND	25.9	104	76-120	
1,1,2-Trichloroethane	25.0	ND	26.7	107	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	ND	22.8	91	61-148	
1,1-Dichloroethane	25.0	ND	25.8	103	77-120	
1,1-Dichloroethene	25.0	ND	24.2	97	66-127	
1,2,4-Trichlorobenzene	25.0	ND	25.2	101	79-122	
1,2-Dibromo-3-Chloropropane	25.0	ND	25.9	103	56-134	
1,2-Dibromoethane	25.0	ND	27.0	108	77-120	
1,2-Dichlorobenzene	25.0	ND	25.5	102	80-124	
1,2-Dichloroethane	25.0	ND	26.5	106	75-120	
1,2-Dichloropropane	25.0	ND	26.6	106	76-120	
1,3-Dichlorobenzene	25.0	ND	25.8	103	77-120	
1,4-Dichlorobenzene	25.0	ND	25.2	101	78-124	
2-Hexanone	125	ND	145	116	65-127	
2-Butanone (MEK)	125	ND	138	111	57-140	
4-Methyl-2-pentanone (MIBK)	125	ND	140	112	71-125	
Acetone	125	ND	148	118	56-142	
Benzene	25.0	ND	26.6	107	71-124	
Bromodichloromethane	25.0	ND	27.0	108	80-122	
Bromoform	25.0	ND	29.6	118	61-132	
Bromomethane	25.0	ND	35.8	143	55-144	
Carbon disulfide	25.0	ND	24.8	99	59-134	
Carbon tetrachloride	25.0	ND	26.4	105	72-134	
Chlorobenzene	25.0	ND	26.4	106	80-120	
Dibromochloromethane	25.0	ND	28.2	113	75-125	
Chloroethane	25.0	ND	35.6	142	69-136	F1
Chloroform	25.0	ND	26.6	106	73-127	
Chloromethane	25.0	ND	23.4	94	68-124	
cis-1,2-Dichloroethene	25.0	ND	27.6	111	74-124	
cis-1,3-Dichloropropene	25.0	ND	25.5	102	74-124	
Cyclohexane	25.0	ND	22.9	92	59-135	
Dichlorodifluoromethane	25.0	ND	22.2	89	59-135	
Ethylbenzene	25.0	ND	27.6	111	77-123	
Isopropylbenzene	25.0	ND	26.5	106	77-122	
Methyl acetate	125	ND	124	100	74-133	
Methyl tert-butyl ether	25.0	ND	25.3	101	77-120	
Methylcyclohexane	25.0	ND	22.9	92	68-134	
Methylene Chloride	25.0	ND	26.6	106	75-124	
Styrene	25.0	ND	28.2	113	80-120	
Tetrachloroethene	25.0	ND	26.2	105	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: P20911.D
 Lab ID: 480-110087-4 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	26.4	106	80-122	
trans-1,2-Dichloroethene	25.0	ND	26.5	106	73-127	
Trichloroethene	25.0	ND	26.1	104	74-123	
Trichlorofluoromethane	25.0	ND	26.4	106	62-150	
Vinyl chloride	25.0	ND	23.3	93	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: P20912.D
 Lab ID: 480-110087-4 MSD Client ID: MW-8 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	25.0	26.5	106	1	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.3	101	3	15	76-120	
1,1,2-Trichloroethane	25.0	26.7	107	0	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.3	89	2	20	61-148	
1,1-Dichloroethane	25.0	24.9	100	3	20	77-120	
1,1-Dichloroethene	25.0	23.6	94	3	16	66-127	
1,2,4-Trichlorobenzene	25.0	25.4	101	1	20	79-122	
1,2-Dibromo-3-Chloropropane	25.0	25.7	103	1	15	56-134	
1,2-Dibromoethane	25.0	26.3	105	2	15	77-120	
1,2-Dichlorobenzene	25.0	25.1	100	1	20	80-124	
1,2-Dichloroethane	25.0	25.7	103	3	20	75-120	
1,2-Dichloropropane	25.0	26.2	105	2	20	76-120	
1,3-Dichlorobenzene	25.0	25.8	103	0	20	77-120	
1,4-Dichlorobenzene	25.0	25.0	100	1	20	78-124	
2-Hexanone	125	142	114	2	15	65-127	
2-Butanone (MEK)	125	136	109	2	20	57-140	
4-Methyl-2-pentanone (MIBK)	125	137	110	2	35	71-125	
Acetone	125	140	112	5	15	56-142	
Benzene	25.0	25.8	103	3	13	71-124	
Bromodichloromethane	25.0	26.6	107	1	15	80-122	
Bromoform	25.0	30.0	120	1	15	61-132	
Bromomethane	25.0	25.8	103	32	15	55-144	F2
Carbon disulfide	25.0	23.8	95	4	15	59-134	
Carbon tetrachloride	25.0	26.1	104	1	15	72-134	
Chlorobenzene	25.0	26.2	105	1	25	80-120	
Dibromochloromethane	25.0	28.0	112	1	15	75-125	
Chloroethane	25.0	33.7	135	5	15	69-136	
Chloroform	25.0	25.9	103	3	20	73-127	
Chloromethane	25.0	22.6	91	3	15	68-124	
cis-1,2-Dichloroethene	25.0	26.9	107	3	15	74-124	
cis-1,3-Dichloropropene	25.0	25.3	101	1	15	74-124	
Cyclohexane	25.0	22.5	90	2	20	59-135	
Dichlorodifluoromethane	25.0	22.3	89	0	20	59-135	
Ethylbenzene	25.0	27.2	109	2	15	77-123	
Isopropylbenzene	25.0	26.3	105	1	20	77-122	
Methyl acetate	125	123	98	1	20	74-133	
Methyl tert-butyl ether	25.0	25.6	103	1	37	77-120	
Methylcyclohexane	25.0	22.6	90	1	20	68-134	
Methylene Chloride	25.0	26.1	104	2	15	75-124	
Styrene	25.0	28.1	112	0	20	80-120	
Tetrachloroethene	25.0	26.1	104	0	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: P20912.D
 Lab ID: 480-110087-4 MSD Client ID: MW-8 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	25.0	26.3	105	1	15	80-122	
trans-1,2-Dichloroethene	25.0	25.2	101	5	20	73-127	
Trichloroethene	25.0	25.5	102	2	16	74-123	
Trichlorofluoromethane	25.0	26.6	106	1	20	62-150	
Vinyl chloride	25.0	24.4	98	5	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab File ID: P20757.D Lab Sample ID: MB 480-334061/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973P Date Analyzed: 11/30/2016 16:52
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 480-334061/17	P20755.D	11/30/2016 15:57
TRIP BLANK	480-110087-7	P20760.D	11/30/2016 18:30

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab File ID: P20894.D Lab Sample ID: MB 480-334557/6
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973P Date Analyzed: 12/03/2016 11:17
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 480-334557/4	P20892.D	12/03/2016 10:23
MW-5R	480-110087-1	P20895.D	12/03/2016 12:00
MW-4	480-110087-2	P20896.D	12/03/2016 12:28
MW-6	480-110087-3	P20897.D	12/03/2016 12:55
MW-8	480-110087-4	P20898.D	12/03/2016 13:23
MW-7	480-110087-5	P20899.D	12/03/2016 13:50
MW-2R	480-110087-6	P20900.D	12/03/2016 14:17
DUP-112216	480-110087-8	P20901.D	12/03/2016 14:45
MW-8 MS	480-110087-4 MS	P20911.D	12/03/2016 17:56
MW-8 MSD	480-110087-4 MSD	P20912.D	12/03/2016 18:24

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

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab File ID: P20727.D BFB Injection Date: 11/29/2016
 Instrument ID: HP5973P BFB Injection Time: 13:45
 Analysis Batch No.: 333850

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.8
75	30.0 - 60.0 % of mass 95	39.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.3 (0.3) 1
174	50.0 - 120.00 % of mass 95	96.0
175	5.0 - 9.0 % of mass 174	7.0 (7.3) 1
176	95.0 - 101.0 % of mass 174	92.4 (96.2) 1
177	5.0 - 9.0 % of mass 176	7.7 (8.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-333850/5	P20729.D	11/29/2016	14:39
	IC 480-333850/6	P20730.D	11/29/2016	15:06
	IC 480-333850/7	P20731.D	11/29/2016	15:33
	IC 480-333850/8	P20732.D	11/29/2016	16:01
	ICIS 480-333850/9	P20733.D	11/29/2016	16:28
	IC 480-333850/10	P20734.D	11/29/2016	16:56
	IC 480-333850/11	P20735.D	11/29/2016	17:23

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

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab File ID: P20750.D BFB Injection Date: 11/30/2016
 Instrument ID: HP5973P BFB Injection Time: 12:41
 Analysis Batch No.: 334061

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.6
75	30.0 - 60.0 % of mass 95	42.2
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	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	102.3
175	5.0 - 9.0 % of mass 174	7.3 (7.2) 1
176	95.0 - 101.0 % of mass 174	100.6 (98.4) 1
177	5.0 - 9.0 % of mass 176	7.7 (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 480-334061/3	P20751.D	11/30/2016	13:08
	LCS 480-334061/17	P20755.D	11/30/2016	15:57
	MB 480-334061/7	P20757.D	11/30/2016	16:52
TRIP BLANK	480-110087-7	P20760.D	11/30/2016	18:30

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

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab File ID: P20889.D BFB Injection Date: 12/03/2016
Instrument ID: HP5973P BFB Injection Time: 08:51
Analysis Batch No.: 334557

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.3
75	30.0 - 60.0 % of mass 95	42.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.6
173	Less than 2.0 % of mass 174	0.7 (0.7) 1
174	50.0 - 120.00 % of mass 95	99.9
175	5.0 - 9.0 % of mass 174	6.9 (6.9) 1
176	95.0 - 101.0 % of mass 174	95.6 (95.7) 1
177	5.0 - 9.0 % of mass 176	6.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-334557/2	P20890.D	12/03/2016	09:24
	LCS 480-334557/4	P20892.D	12/03/2016	10:23
	MB 480-334557/6	P20894.D	12/03/2016	11:17
MW-5R	480-110087-1	P20895.D	12/03/2016	12:00
MW-4	480-110087-2	P20896.D	12/03/2016	12:28
MW-6	480-110087-3	P20897.D	12/03/2016	12:55
MW-8	480-110087-4	P20898.D	12/03/2016	13:23
MW-7	480-110087-5	P20899.D	12/03/2016	13:50
MW-2R	480-110087-6	P20900.D	12/03/2016	14:17
DUP-112216	480-110087-8	P20901.D	12/03/2016	14:45
MW-8 MS	480-110087-4 MS	P20911.D	12/03/2016	17:56
MW-8 MSD	480-110087-4 MSD	P20912.D	12/03/2016	18:24

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

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Sample No.: ICIS 480-333850/9 Date Analyzed: 11/29/2016 16:28
 Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): P20733.D Heated Purge: (Y/N) N
 Calibration ID: 29023

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	148766	9.82	307702	13.76	412980	16.75	
UPPER LIMIT	297532	10.32	615404	14.26	825960	17.25	
LOWER LIMIT	74383	9.32	153851	13.26	206490	16.25	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-334061/3		160289	9.82	328534	13.76	448156	16.75
CCVIS 480-334557/2		133009	9.82	276918	13.76	368409	16.74

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Sample No.: CCVIS 480-334061/3 Date Analyzed: 11/30/2016 13:08
 Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): P20751.D Heated Purge: (Y/N) N
 Calibration ID: 29021

		FB		CBNZd5		DCBd4		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		160289	9.82	328534	13.76	448156	16.75	
UPPER LIMIT		320578	10.32	657068	14.26	896312	17.25	
LOWER LIMIT		80145	9.32	164267	13.26	224078	16.25	
LAB SAMPLE ID		CLIENT SAMPLE ID						
LCS 480-334061/17		153887	9.82	331131	13.76	456380	16.75	
MB 480-334061/7		148397	9.82	309953	13.76	420227	16.75	
480-110087-7		TRIP BLANK	142106	9.82	300547	13.76	400186	16.75

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Sample No.: CCVIS 480-334557/2 Date Analyzed: 12/03/2016 09:24
 Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): P20890.D Heated Purge: (Y/N) N
 Calibration ID: 29021

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	133009	9.82	276918	13.76	368409	16.74	
UPPER LIMIT	266018	10.32	553836	14.26	736818	17.24	
LOWER LIMIT	66505	9.32	138459	13.26	184205	16.24	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-334557/4		135280	9.82	281247	13.76	375869	16.75
MB 480-334557/6		128736	9.82	266852	13.76	342558	16.75
480-110087-1	MW-5R	127304	9.82	265724	13.76	357540	16.74
480-110087-2	MW-4	125692	9.82	259511	13.76	337301	16.75
480-110087-3	MW-6	122850	9.82	254254	13.76	326885	16.75
480-110087-4	MW-8	126692	9.82	255496	13.76	343393	16.75
480-110087-5	MW-7	121874	9.82	253232	13.76	328876	16.75
480-110087-6	MW-2R	122029	9.82	250643	13.76	338978	16.75
480-110087-8	DUP-112216	122683	9.82	249426	13.76	322717	16.75
480-110087-4 MS	MW-8 MS	122966	9.82	256038	13.76	355380	16.75
480-110087-4 MSD	MW-8 MSD	127703	9.82	266921	13.76	363152	16.75

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

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-5R</u>	Lab Sample ID: <u>480-110087-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>P20895.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/22/2016 12:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 12:00</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334557</u>	Units: <u>ug/L</u>

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
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
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
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
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: MW-5R Lab Sample ID: 480-110087-1
 Matrix: Water Lab File ID: P20895.D
 Analysis Method: 8260C Date Collected: 11/22/2016 12:35
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 12:00
 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.: 334557 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)	102		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20895.D
 Lims ID: 480-110087-D-1
 Client ID: MW-5R
 Sample Type: Client
 Inject. Date: 03-Dec-2016 12:00:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110087-d-1
 Misc. Info.: 480-0058849-007
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2016 18:54:02 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: gentilej

Date: 04-Dec-2016 18:54:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.815	9.815	0.000	99	127304	25.0	
* 2 Chlorobenzene-d5	82	13.757	13.757	0.000	85	265724	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.744	16.751	-0.007	93	357540	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.006	9.006	0.000	94	181187	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.444	9.444	0.000	0	101079	25.5	
\$ 5 Toluene-d8 (Surr)	98	11.792	11.792	0.000	93	584377	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	97	241835	25.4	
10 Dichlorodifluoromethane	85		3.987				ND	
11 Chloromethane	50		4.304				ND	
17 Vinyl chloride	62		4.529				ND	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.210				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43	6.317	6.317	-0.006	64	5485	1.30	7
27 Carbon disulfide	76		6.670				ND	
30 Methyl acetate	43		6.694				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96		7.230				ND	
40 1,1-Dichloroethane	63		7.747				ND	
44 2-Butanone (MEK)	43		8.392				ND	
43 cis-1,2-Dichloroethene	96		8.446				ND	
49 Chloroform	83		8.799				ND	
52 1,1,1-Trichloroethane	97		9.061				ND	
54 Cyclohexane	56		9.128				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.542				ND	
62 Trichloroethene	95		10.272				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.503				ND	
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.440				ND	
75 4-Methyl-2-pentanone (MIBK)	43		11.549				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.425				ND	
80 Tetrachloroethene	166		12.632				ND	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.861				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.554				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.925				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146	16.671	16.671	0.000	2	1794	0.0730	7
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.262				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr_00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20895.D

Injection Date: 03-Dec-2016 12:00:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: 480-110087-D-1

Lab Sample ID: 480-110087-1

Worklist Smp#: 7

Client ID: MW-5R

Purge Vol: 5.000 mL

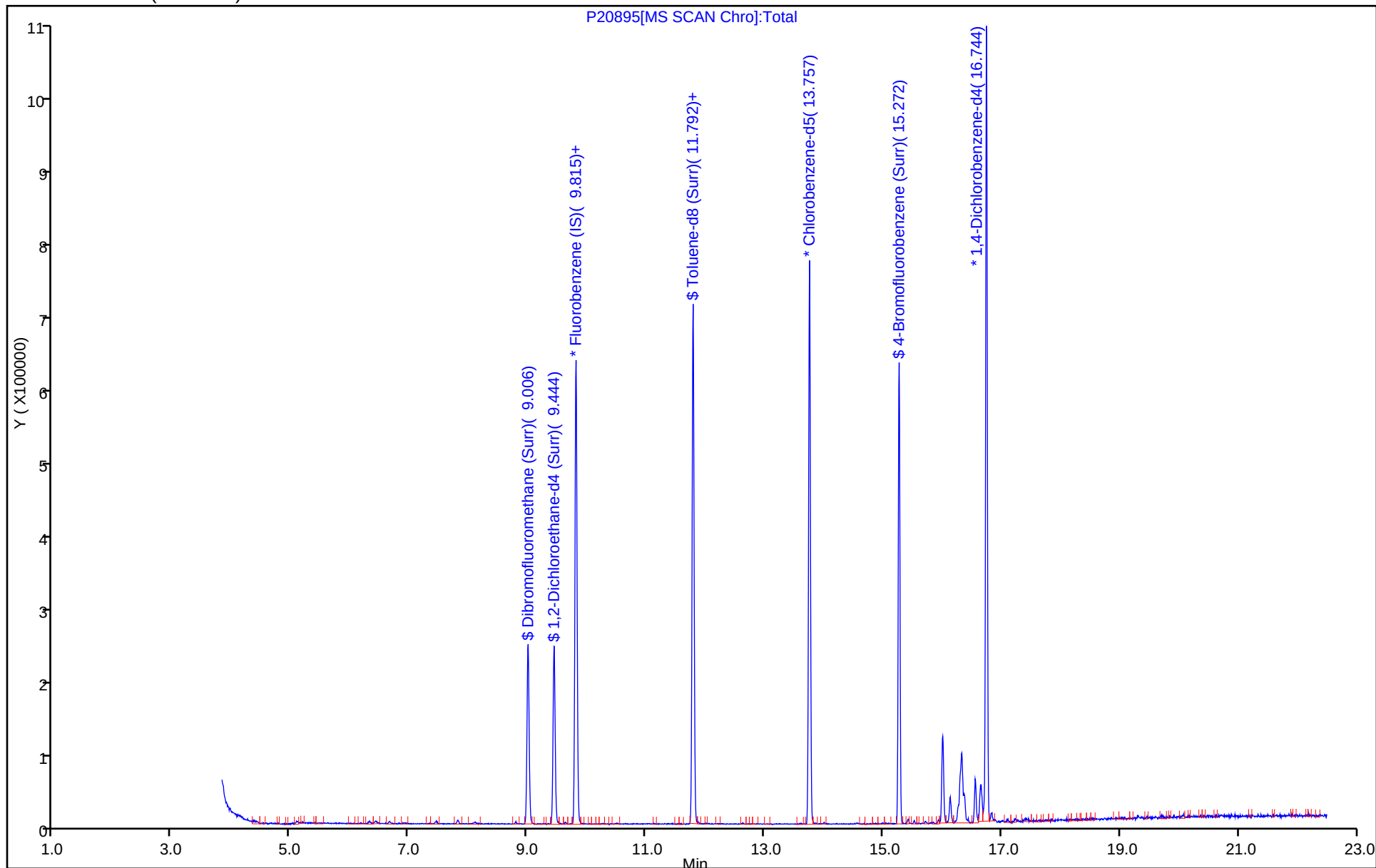
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-4</u>	Lab Sample ID: <u>480-110087-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>P20896.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/22/2016 13:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 12:28</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334557</u>	Units: <u>ug/L</u>

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
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
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
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
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: MW-4 Lab Sample ID: 480-110087-2
 Matrix: Water Lab File ID: P20896.D
 Analysis Method: 8260C Date Collected: 11/22/2016 13:50
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 12:28
 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.: 334557 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)	101		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20896.D
 Lims ID: 480-110087-D-2
 Client ID: MW-4
 Sample Type: Client
 Inject. Date: 03-Dec-2016 12:28:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110087-d-2
 Misc. Info.: 480-0058849-008
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2016 18:54:43 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: gentilej

Date: 04-Dec-2016 18:54:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.815	9.815	0.000	99	125692	25.0	
* 2 Chlorobenzene-d5	82	13.757	13.757	0.000	85	259511	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	93	337301	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.006	0.006	94	174583	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.444	0.012	0	99056	25.3	
\$ 5 Toluene-d8 (Surr)	98	11.799	11.792	0.007	93	571284	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	97	233824	25.1	
10 Dichlorodifluoromethane	85		3.987				ND	
11 Chloromethane	50		4.304				ND	
17 Vinyl chloride	62		4.529				ND	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.210				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43	6.342	6.342	0.019	69	2755	0.6616	7
27 Carbon disulfide	76		6.670				ND	
30 Methyl acetate	43		6.694				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96		7.230				ND	
40 1,1-Dichloroethane	63		7.747				ND	
44 2-Butanone (MEK)	43		8.392				ND	
43 cis-1,2-Dichloroethene	96		8.446				ND	
49 Chloroform	83		8.799				ND	
52 1,1,1-Trichloroethane	97		9.061				ND	
54 Cyclohexane	56		9.128				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.542				ND	
62 Trichloroethene	95		10.272				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.503				ND	
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.440				ND	
75 4-Methyl-2-pentanone (MIBK)	43		11.549				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.425				ND	
80 Tetrachloroethene	166		12.632				ND	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.861				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.554				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.925				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.671				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.262				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr_00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20896.D

Injection Date: 03-Dec-2016 12:28:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: 480-110087-D-2

Lab Sample ID: 480-110087-2

Worklist Smp#: 8

Client ID: MW-4

Purge Vol: 5.000 mL

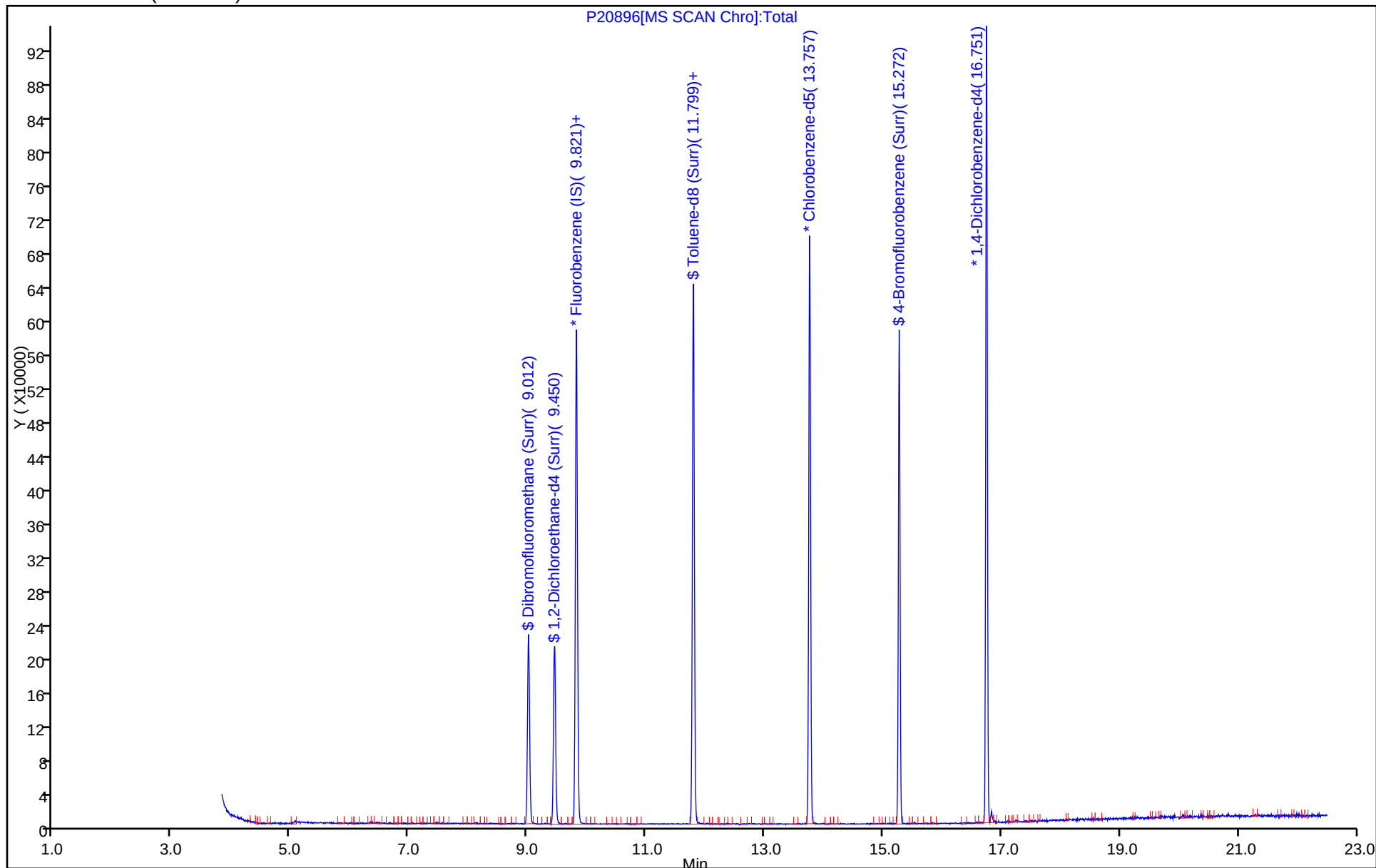
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-6</u>	Lab Sample ID: <u>480-110087-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>P20897.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/22/2016 16:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 12:55</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334557</u>	Units: <u>ug/L</u>

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
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
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
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
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: MW-6 Lab Sample ID: 480-110087-3
 Matrix: Water Lab File ID: P20897.D
 Analysis Method: 8260C Date Collected: 11/22/2016 16:35
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 12:55
 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.: 334557 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
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20897.D
 Lims ID: 480-110087-D-3
 Client ID: MW-6
 Sample Type: Client
 Inject. Date: 03-Dec-2016 12:55:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110087-d-3
 Misc. Info.: 480-0058849-009
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2016 18:55:18 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: gentilej

Date: 04-Dec-2016 18:55:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.815	9.815	0.000	99	122850	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.757	0.007	85	254254	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	93	326885	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.006	0.006	94	173850	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.444	0.006	0	98561	25.8	
\$ 5 Toluene-d8 (Surr)	98	11.792	11.792	0.000	93	562479	25.5	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	97	233617	25.6	
10 Dichlorodifluoromethane	85		3.987				ND	
11 Chloromethane	50		4.304				ND	
17 Vinyl chloride	62		4.529				ND	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.210				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43	6.329	6.329	0.006	89	11949	2.94	7
27 Carbon disulfide	76		6.670				ND	
30 Methyl acetate	43		6.694				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96		7.230				ND	
40 1,1-Dichloroethane	63		7.747				ND	
44 2-Butanone (MEK)	43		8.392				ND	
43 cis-1,2-Dichloroethene	96		8.446				ND	
49 Chloroform	83		8.799				ND	
52 1,1,1-Trichloroethane	97		9.061				ND	
54 Cyclohexane	56		9.128				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.542				ND	
62 Trichloroethene	95		10.272				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.503				ND	
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.440				ND	
75 4-Methyl-2-pentanone (MIBK)	43		11.549				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.425				ND	
80 Tetrachloroethene	166		12.632				ND	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.861				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.554				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.925				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.671				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.262				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20897.D

Injection Date: 03-Dec-2016 12:55:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: 480-110087-D-3

Lab Sample ID: 480-110087-3

Worklist Smp#: 9

Client ID: MW-6

Purge Vol: 5.000 mL

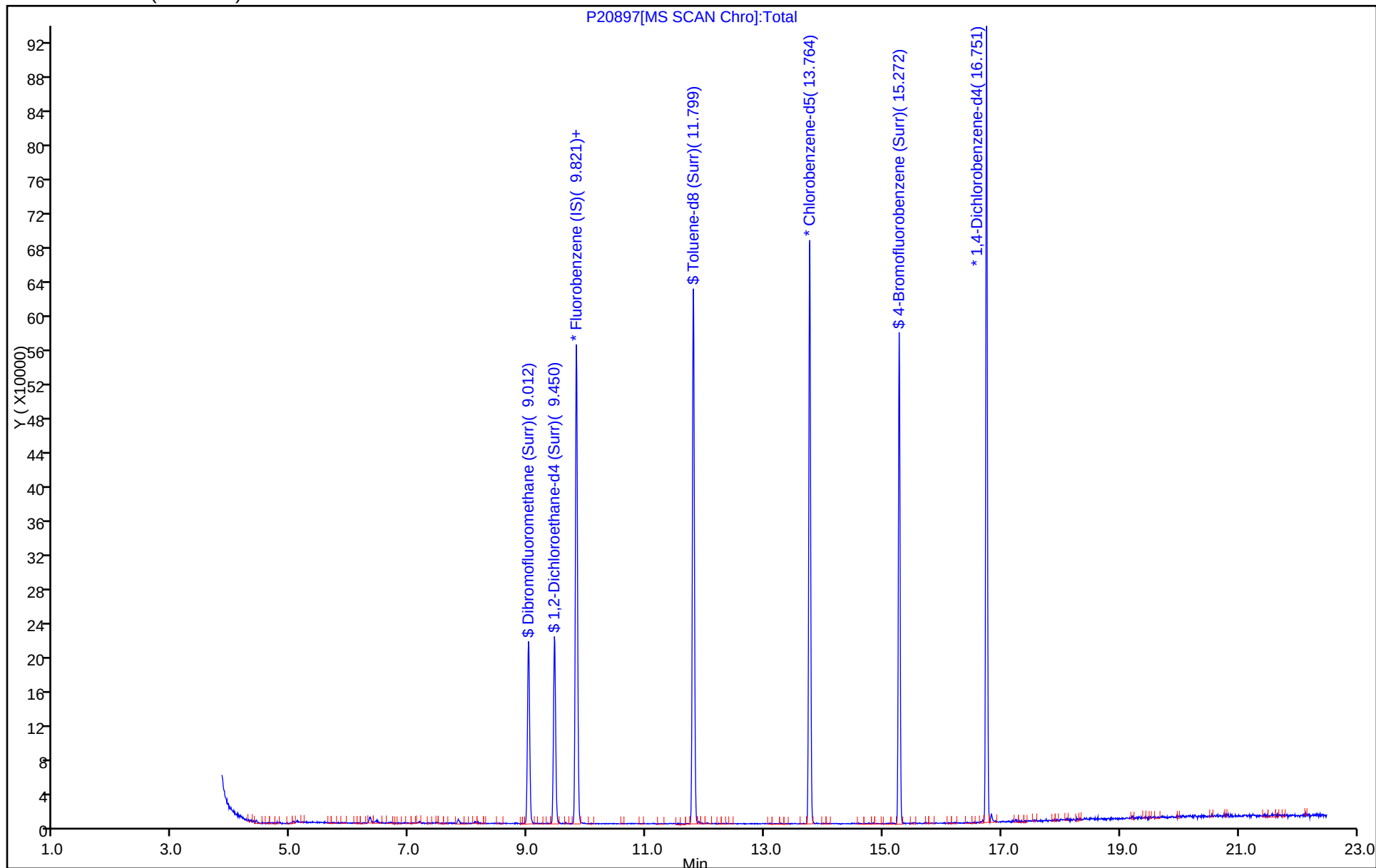
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-8</u>	Lab Sample ID: <u>480-110087-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>P20898.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/23/2016 09:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 13:23</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334557</u>	Units: <u>ug/L</u>

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
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
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
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	F2	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	F1	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
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: MW-8 Lab Sample ID: 480-110087-4
 Matrix: Water Lab File ID: P20898.D
 Analysis Method: 8260C Date Collected: 11/23/2016 09:45
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 13:23
 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.: 334557 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)	100		77-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20898.D
 Lims ID: 480-110087-D-4
 Client ID: MW-8
 Sample Type: Client
 Inject. Date: 03-Dec-2016 13:23:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110087-d-4
 Misc. Info.: 480-0058849-010
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2016 18:56:26 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: gentilej

Date: 04-Dec-2016 18:56:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.815	0.006	99	126692	25.0	
* 2 Chlorobenzene-d5	82	13.757	13.757	0.000	85	255496	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.751	-0.001	93	343393	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.006	0.006	94	175454	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.444	0.006	0	98735	25.0	
\$ 5 Toluene-d8 (Surr)	98	11.798	11.792	0.006	93	552005	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	97	230394	25.2	
10 Dichlorodifluoromethane	85		3.987				ND	
15 Chlorodifluoromethane	51		4.012				ND	
11 Chloromethane	50		4.304				ND	
17 Vinyl chloride	62		4.529				ND	
144 Butadiene	54		4.541				ND	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.210				ND	
19 Dichlorofluoromethane	67		5.496				ND	
14 Trichlorofluoromethane	101		5.605				ND	
141 Ethanol	45		5.782				ND	
20 Ethyl ether	59		5.897				ND	
26 Propene oxide	58		6.043				ND	
22 Acrolein	56		6.147				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43		6.323				ND	
23 Isopropyl alcohol	45		6.439				ND	
18 Iodomethane	142		6.554				ND	
27 Carbon disulfide	76		6.670				ND	
30 Methyl acetate	43		6.694				ND	
29 Acetonitrile	40		6.719				ND	
28 3-Chloro-1-propene	41		6.731				ND	
31 Methylene Chloride	84		6.907				ND	
33 2-Methyl-2-propanol	59		6.926				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		7.163				ND	
34 Acrylonitrile	53		7.193				ND	
35 trans-1,2-Dichloroethene	96		7.230				ND	
36 Hexane	57		7.461				ND	
37 Isopropyl ether	45		7.674				ND	
38 Vinyl acetate	43		7.698				ND	
40 1,1-Dichloroethane	63		7.747				ND	
39 1,1-Dimethoxyethane	75		7.777				ND	
41 2-Chloro-1,3-butadiene	53		7.838				ND	
42 Tert-butyl ethyl ether	59		8.118				ND	
46 Ethyl acetate	43		8.386				ND	
44 2-Butanone (MEK)	43		8.392				ND	
43 cis-1,2-Dichloroethene	96		8.446				ND	
45 2,2-Dichloropropane	77		8.446				ND	
47 Propionitrile	54		8.519				ND	
48 Methacrylonitrile	41		8.690				ND	
50 Chlorobromomethane	128		8.763				ND	
51 Tetrahydrofuran	42		8.787				ND	
49 Chloroform	83	8.805	8.805	0.006	1	2394	0.1395	7
52 1,1,1-Trichloroethane	97		9.061				ND	
54 Cyclohexane	56		9.128				ND	
53 Isobutyl alcohol	43		9.207				ND	
56 1,1-Dichloropropene	75		9.231				ND	
55 Carbon tetrachloride	117		9.268				ND	
140 t-Amyl alcohol	59		9.347				ND	
146 Isooctane	57		9.481				ND	
57 Benzene	78		9.517				ND	
58 Tert-amyl methyl ether	73		9.517				ND	
60 1,2-Dichloroethane	62		9.542				ND	
59 n-Heptane	43		9.639				ND	
66 2-Methylthiophene	97		9.687				ND	
67 3-Methylthiophene	97		9.894				ND	
1 1,4-Difluorobenzene	114		9.894				ND	
61 n-Butanol	56		10.004				ND	
145 Ethyl acrylate	55		10.247				ND	
62 Trichloroethene	95		10.272				ND	
64 Methylcyclohexane	83		10.503				ND	
65 Methyl methacrylate	41		10.545				ND	
63 1,2-Dichloropropane	63		10.582				ND	
68 1,4-Dioxane	88		10.703				ND	
69 Dibromomethane	93		10.770				ND	
70 Dichlorobromomethane	83		10.904				ND	
71 2-Chloroethyl vinyl ether	63		11.172				ND	
72 2-Nitropropane	43		11.172				ND	
74 Epichlorohydrin	57		11.336				ND	
73 cis-1,3-Dichloropropene	75		11.440				ND	
75 4-Methyl-2-pentanone (MIBK)	43		11.549				ND	
76 Toluene	92		11.884				ND	
77 Ethyl methacrylate	69		12.115				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.425				ND	
80 Tetrachloroethene	166		12.632				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
83 2-Hexanone	43		12.638				ND	
82 1,3-Dichloropropane	76		12.662				ND	
149 n-Butyl acetate	43		12.723				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
84 3-Chlorobenzotrifluoride	180		13.605				ND	
139 1-Chlorohexane	55		13.624				ND	
86 4-Chlorobenzotrifluoride	180		13.678				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.861				ND	
88 1,1,1,2-Tetrachloroethane	131		13.879				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.554				ND	
94 Styrene	104		14.573				ND	
91 2-Chlorobenzotrifluoride	180		14.852				ND	
92 Bromoform	173		14.925				ND	
95 Isopropylbenzene	105		14.998				ND	
96 Cyclohexanone	55		15.242				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
98 trans-1,4-Dichloro-2-buten	53		15.479				ND	
100 Bromobenzene	156		15.516				ND	
101 1,2,3-Trichloropropane	110		15.516				ND	
99 N-Propylbenzene	91		15.528				ND	
103 2-Chlorotoluene	126		15.716				ND	
102 1,3,5-Trimethylbenzene	105		15.722				ND	
104 3-Chlorotoluene	126		15.783				ND	
105 4-Chlorotoluene	126		15.844				ND	
106 tert-Butylbenzene	134		16.167				ND	
107 1,2,4-Trimethylbenzene	105		16.227				ND	
108 Pentachloroethane	167		16.276				ND	
109 sec-Butylbenzene	105		16.434				ND	
112 4-Isopropyltoluene	119		16.586				ND	
110 1,3-Dichlorobenzene	146		16.671				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
113 1,2,3-Trimethylbenzene	105		16.781				ND	
114 Dicyclopentadiene	66		16.805				ND	
143 Benzyl chloride	126		16.933				ND	
115 n-Butylbenzene	91		17.103				ND	
116 1,2-Dichlorobenzene	146		17.262				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
118 1,3,5-Trichlorobenzene	180		18.460				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
120 Hexachlorobutadiene	225		19.470				ND	
121 Naphthalene	128		19.713				ND	
122 1,2,3-Trichlorobenzene	180		20.066				ND	
142 2-Methylnaphthalene	142		21.520				ND	
138 Ethylene oxide TIC	1		0.000				ND	
136 Propene oxide TIC	1		0.000				ND	
137 1-Bromopropane TIC	1		0.000				ND	
135 Pentachloroethane TIC	1		0.000				ND	
134 Halothane	1		0.000				ND	
S 123 1,2-Dichloroethene, Total	1		30.000				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
S 124 1,3-Dichloropropene, Total	1		30.000				ND	
S 125 Total BTEX	1		30.000				ND	
S 126 Xylenes, Total	1		30.000				ND	
T 150 1-Chloro-1-fluoroethane TI	47		5.300				ND	
T 9 bis(2-chloromethyl)ether T	1		0.000				ND	
T 7 Ethylene oxide	1		0.000				ND	
T 127 Ethanol TIC	45		0.000				ND	
T 128 Hexachloroethane TIC	201		0.000				ND	
T 132 tert-amyl alcohol TIC	1		0.000				ND	
T 129 bis(chloromethyl)ether TIC	1		0.000				ND	
T 130 Bromoethane TIC	1		0.000				ND	
T 133 Aziridine TIC	1		0.000				ND	
T 131 1-Bromopropane	1		0.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20898.D

Injection Date: 03-Dec-2016 13:23:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: 480-110087-D-4

Lab Sample ID: 480-110087-4

Worklist Smp#: 10

Client ID: MW-8

Purge Vol: 5.000 mL

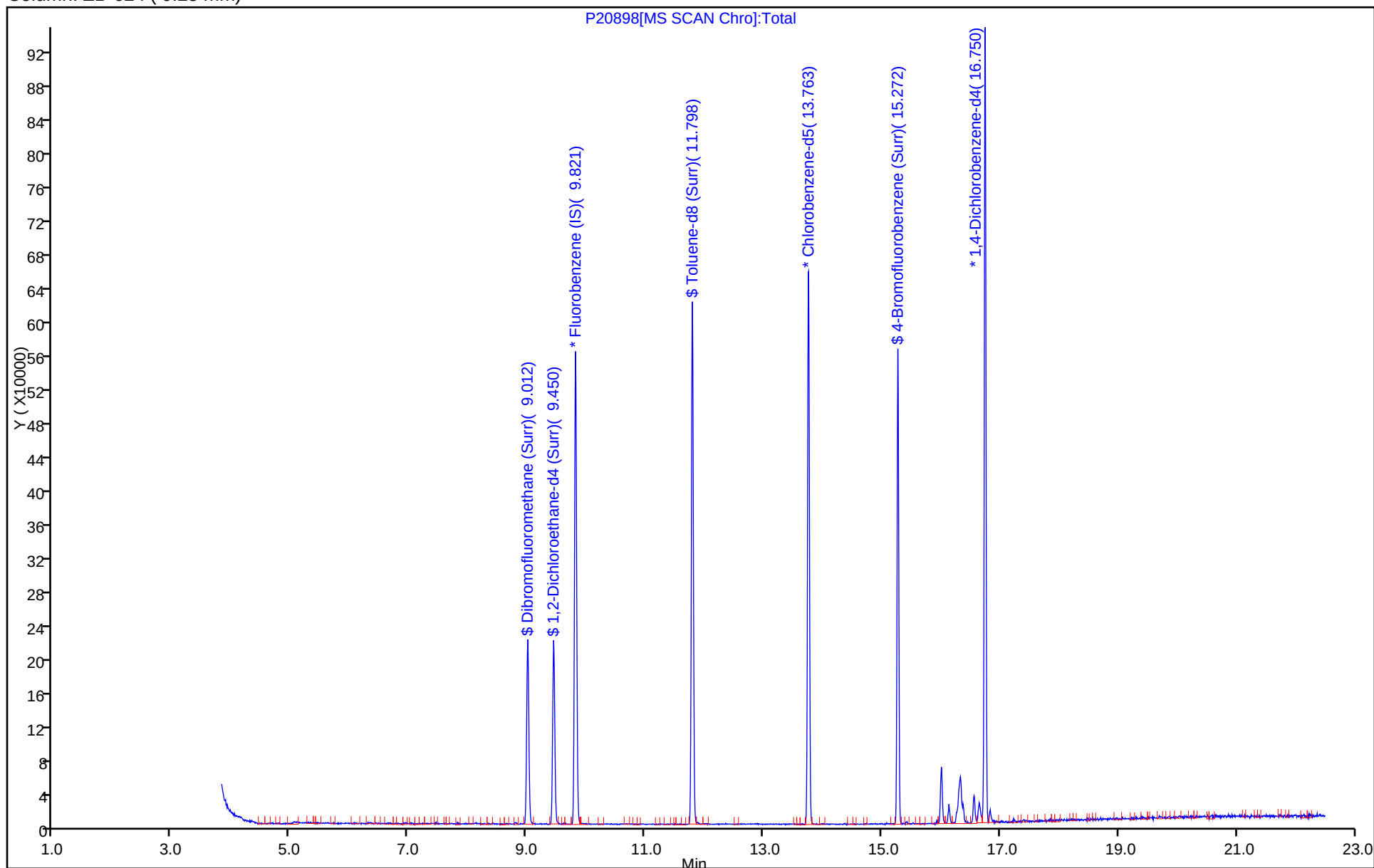
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1

SDG No.: _____

Client Sample ID: MW-7 Lab Sample ID: 480-110087-5

Matrix: Water Lab File ID: P20899.D

Analysis Method: 8260C Date Collected: 11/23/2016 12:30

Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 13:50

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 334557 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
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
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
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
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: MW-7 Lab Sample ID: 480-110087-5
 Matrix: Water Lab File ID: P20899.D
 Analysis Method: 8260C Date Collected: 11/23/2016 12:30
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 13:50
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334557 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
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20899.D
 Lims ID: 480-110087-D-5
 Client ID: MW-7
 Sample Type: Client
 Inject. Date: 03-Dec-2016 13:50:30 ALS Bottle#: 11 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110087-d-5
 Misc. Info.: 480-0058849-013
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2016 18:57:02 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: gentilej

Date: 04-Dec-2016 18:57:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.815	0.006	99	121874	25.0	
* 2 Chlorobenzene-d5	82	13.757	13.757	0.000	86	253232	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.751	-0.001	93	328876	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.006	9.006	0.000	93	173802	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.444	0.006	0	97656	25.7	
\$ 5 Toluene-d8 (Surr)	98	11.798	11.792	0.006	93	550213	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	96	231498	25.5	
10 Dichlorodifluoromethane	85		3.987				ND	
11 Chloromethane	50		4.304				ND	
17 Vinyl chloride	62		4.529				ND	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.210				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43	6.329	6.329	0.006	72	7443	1.84	7
27 Carbon disulfide	76		6.670				ND	
30 Methyl acetate	43		6.694				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96		7.230				ND	
40 1,1-Dichloroethane	63		7.747				ND	
44 2-Butanone (MEK)	43		8.392				ND	
43 cis-1,2-Dichloroethene	96		8.446				ND	
49 Chloroform	83	8.805	8.799	0.006	91	4356	0.2639	
52 1,1,1-Trichloroethane	97		9.061				ND	
54 Cyclohexane	56		9.128				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.542				ND	
62 Trichloroethene	95		10.272				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.503				ND	
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.440				ND	
75 4-Methyl-2-pentanone (MIBK)	43		11.549				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.425				ND	
80 Tetrachloroethene	166		12.632				ND	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.861				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.554				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.925				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.671				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.262				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr_00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20899.D

Injection Date: 03-Dec-2016 13:50:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: 480-110087-D-5

Lab Sample ID: 480-110087-5

Worklist Smp#: 13

Client ID: MW-7

Purge Vol: 5.000 mL

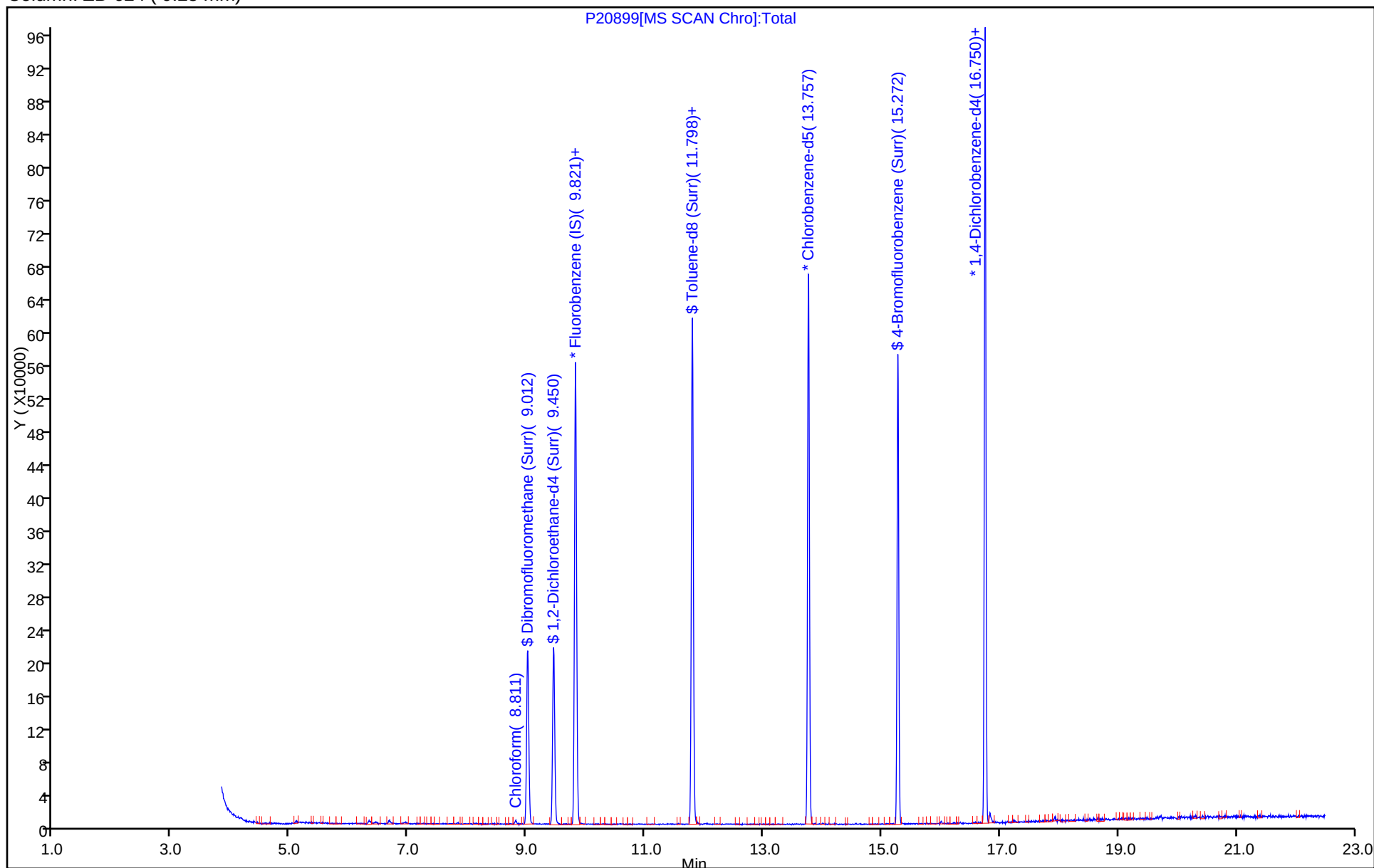
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-2R</u>	Lab Sample ID: <u>480-110087-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>P20900.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/23/2016 13:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 14:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334557</u>	Units: <u>ug/L</u>

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
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
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
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	0.50	J	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	1.2		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
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: MW-2R Lab Sample ID: 480-110087-6
 Matrix: Water Lab File ID: P20900.D
 Analysis Method: 8260C Date Collected: 11/23/2016 13:45
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 14:17
 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.: 334557 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)	102		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
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\HP5973P\20161203-58849.b\P20900.D
 Lims ID: 480-110087-D-6
 Client ID: MW-2R
 Sample Type: Client
 Inject. Date: 03-Dec-2016 14:17:30 ALS Bottle#: 12 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110087-d-6
 Misc. Info.: 480-0058849-014
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2016 20:17:14 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: gentilej

Date: 04-Dec-2016 20:17:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.815	0.006	99	122029	25.0	
* 2 Chlorobenzene-d5	82	13.757	13.757	0.000	85	250643	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.751	-0.001	93	338978	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.006	0.006	94	170915	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.444	0.006	0	97308	25.6	
\$ 5 Toluene-d8 (Surr)	98	11.798	11.792	0.006	94	543617	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	96	227880	25.4	
10 Dichlorodifluoromethane	85		3.987				ND	
11 Chloromethane	50		4.304				ND	
17 Vinyl chloride	62		4.529				ND	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.210				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43	6.335	6.335	0.012	1	3875	0.9585	7M
27 Carbon disulfide	76		6.670				ND	
30 Methyl acetate	43		6.694				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96		7.230				ND	
40 1,1-Dichloroethane	63		7.747				ND	
44 2-Butanone (MEK)	43		8.392				ND	
43 cis-1,2-Dichloroethene	96		8.446				ND	
49 Chloroform	83	8.811	8.799	0.012	93	19871	1.20	
52 1,1,1-Trichloroethane	97		9.061				ND	
54 Cyclohexane	56		9.128				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.542				ND	
62 Trichloroethene	95		10.272				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.503				ND	
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83	10.916	10.904	0.012	91	5572	0.4997	
73 cis-1,3-Dichloropropene	75		11.440				ND	
75 4-Methyl-2-pentanone (MIBK)	43		11.549				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.425				ND	
80 Tetrachloroethene	166		12.632				ND	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129	13.015	13.009	0.006	1	1942	0.2088	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.861				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.554				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.925				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.671				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.262				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr_00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20900.D

Injection Date: 03-Dec-2016 14:17:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: 480-110087-D-6

Lab Sample ID: 480-110087-6

Worklist Smp#: 14

Client ID: MW-2R

Purge Vol: 5.000 mL

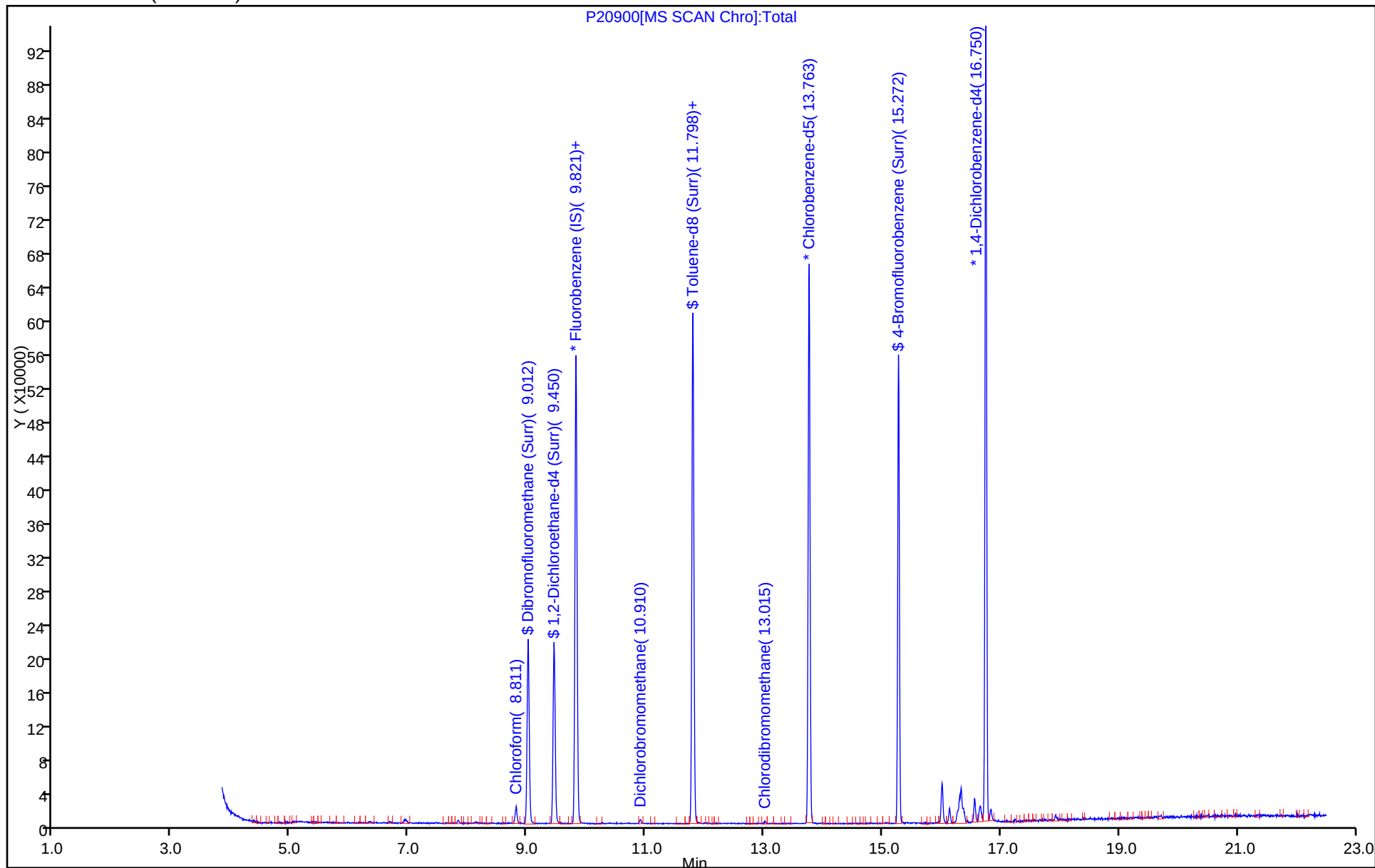
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20900.D

Injection Date: 03-Dec-2016 14:17:30

Instrument ID: HP5973P

Lims ID: 480-110087-D-6

Lab Sample ID: 480-110087-6

Client ID: MW-2R

Operator ID: RF

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

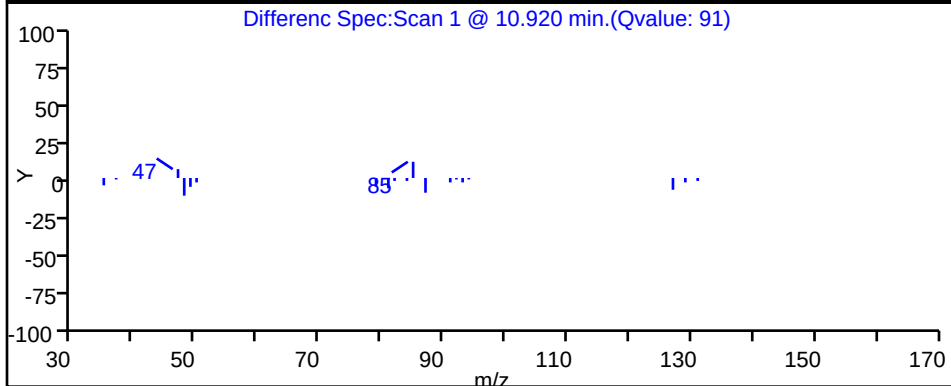
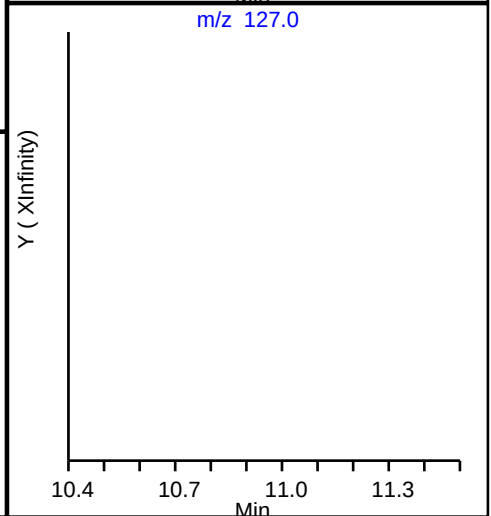
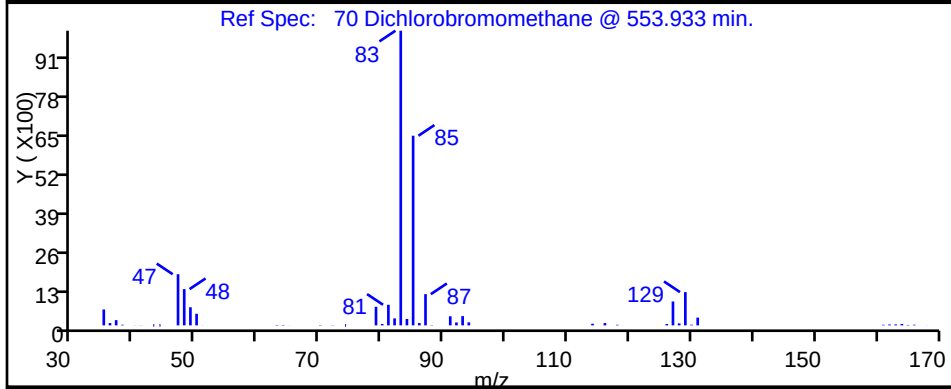
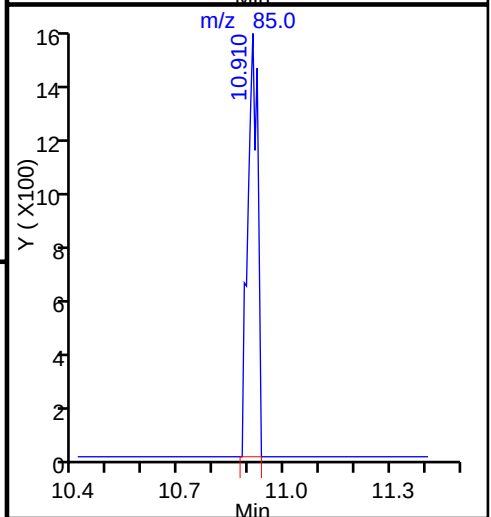
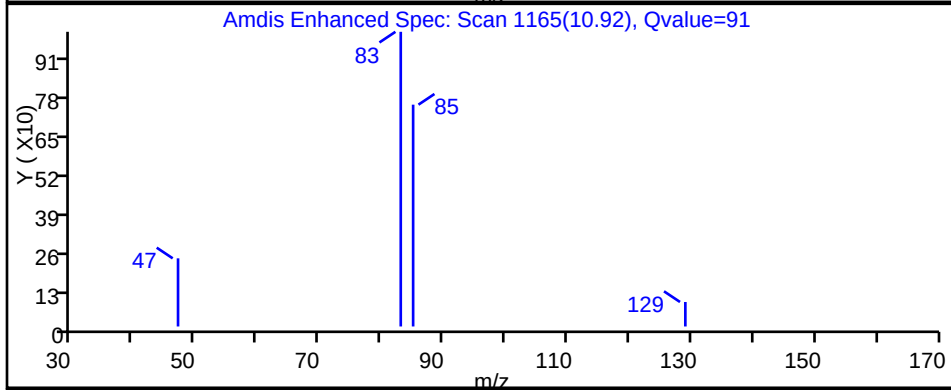
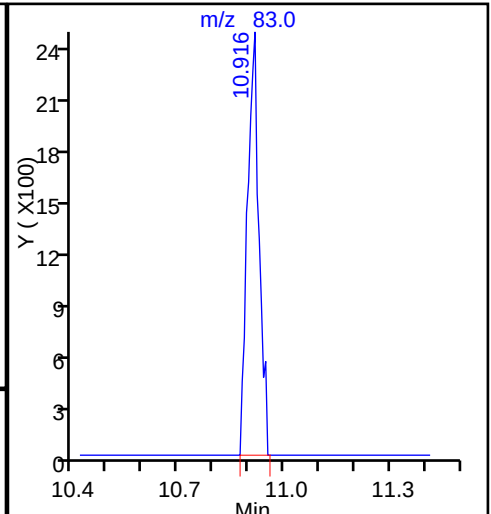
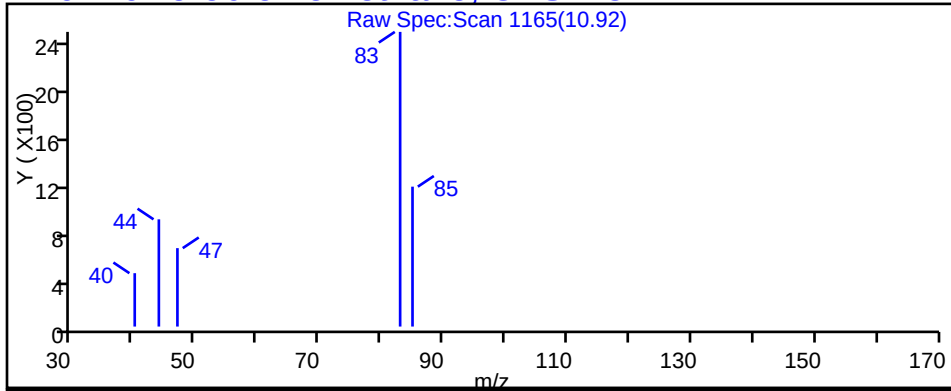
Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

70 Dichlorobromomethane, CAS: 75-27-4



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20900.D

Injection Date: 03-Dec-2016 14:17:30

Instrument ID: HP5973P

Lims ID: 480-110087-D-6

Lab Sample ID: 480-110087-6

Client ID: MW-2R

Operator ID: RF

ALS Bottle#: 12

Worklist Smp#: 14

Purge Vol: 5.000 mL

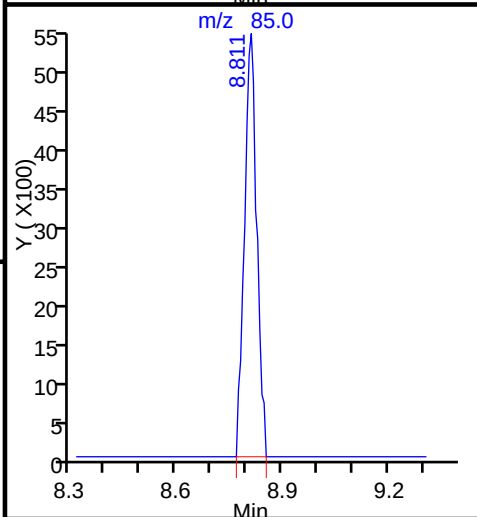
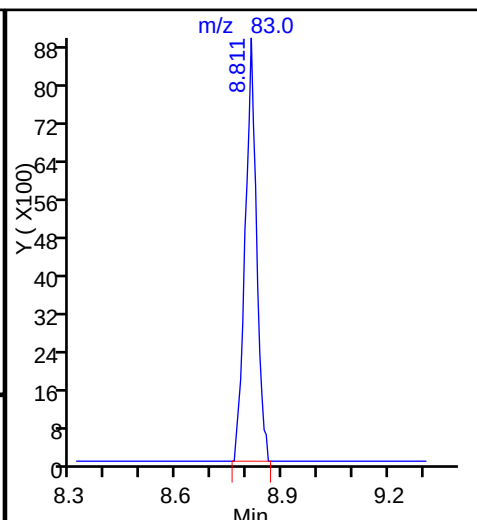
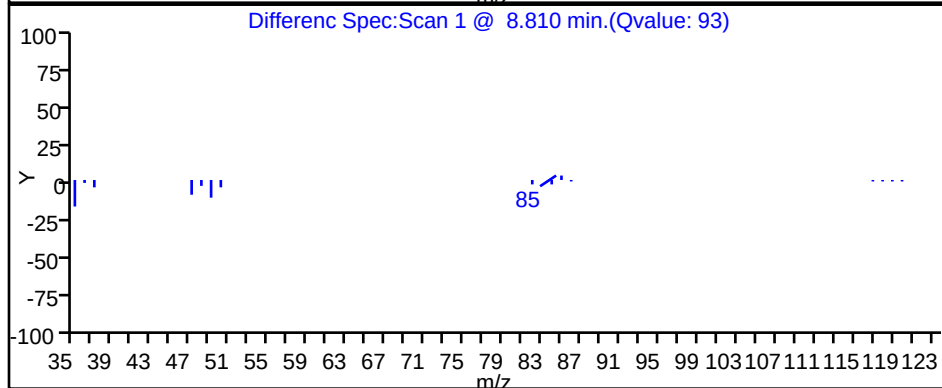
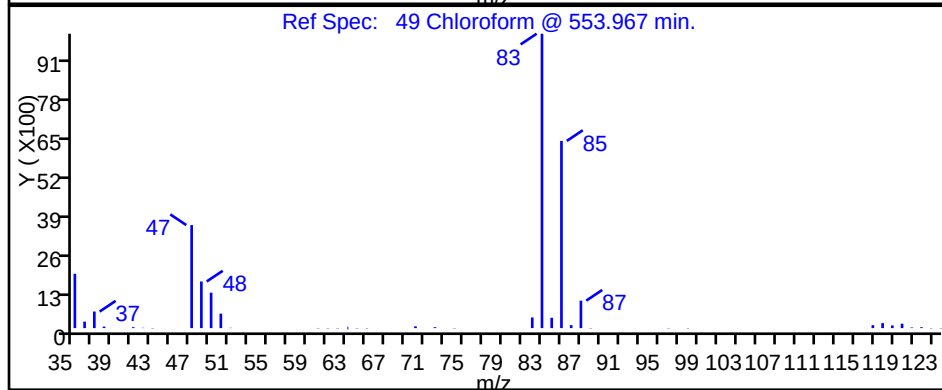
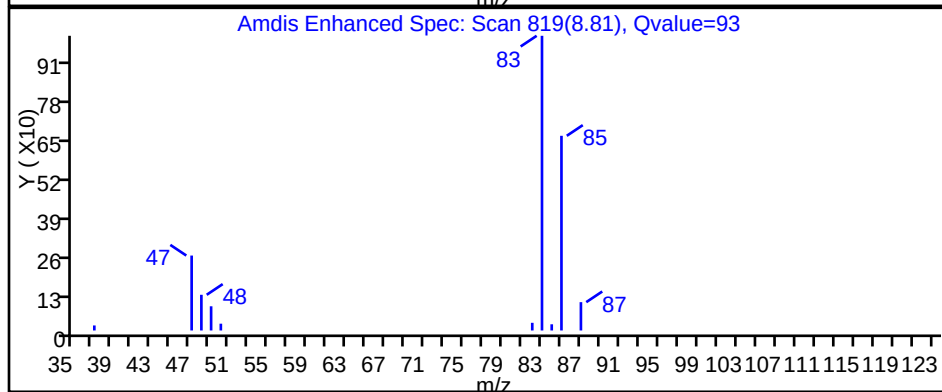
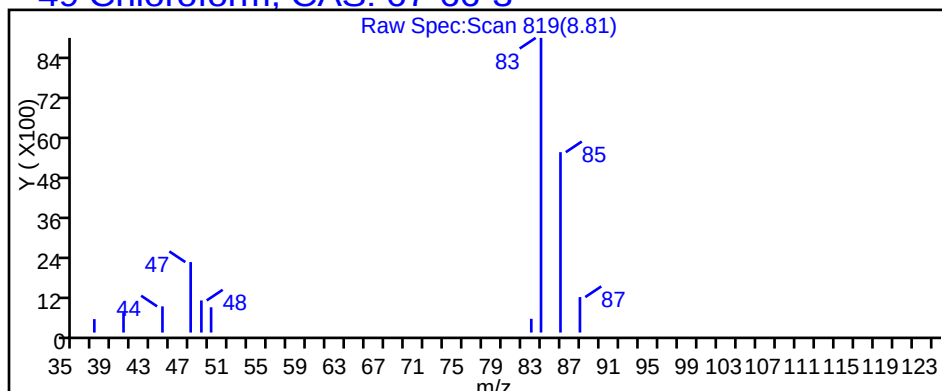
Dil. Factor: 1.0000

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

49 Chloroform, CAS: 67-66-3

TestAmerica Buffalo

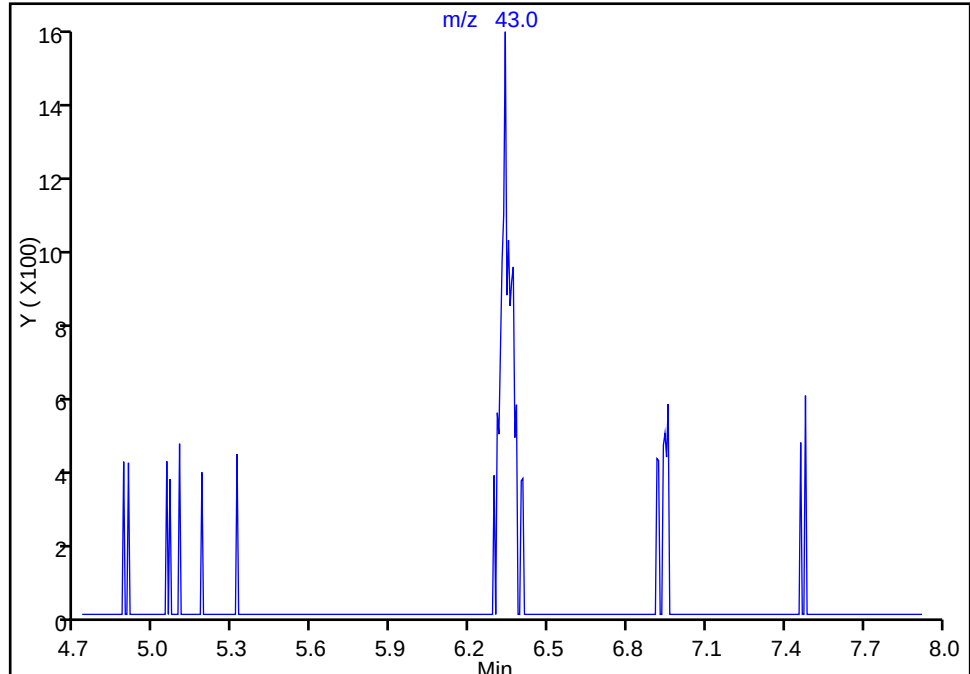
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20900.D
Injection Date: 03-Dec-2016 14:17:30 Instrument ID: HP5973P
Lims ID: 480-110087-D-6 Lab Sample ID: 480-110087-6
Client ID: MW-2R
Operator ID: RF ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

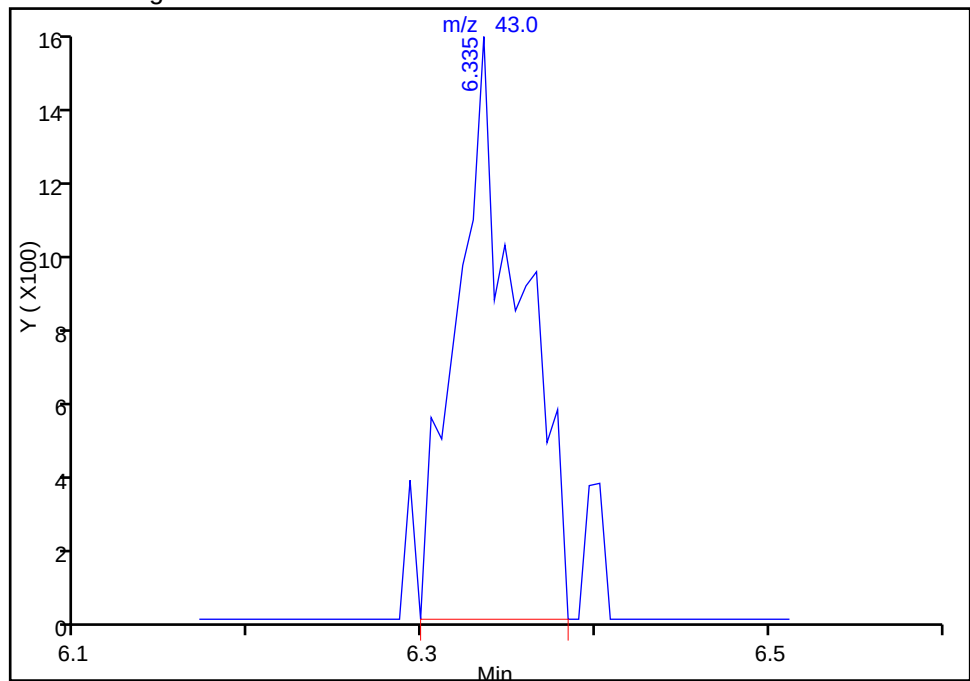
Not Detected
Expected RT: 6.32

Processing Integration Results



RT: 6.34
Area: 3875
Amount: 0.958506
Amount Units: ug/L

Manual Integration Results



Reviewer: gentilej, 04-Dec-2016 20:17:14
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20900.D

Injection Date: 03-Dec-2016 14:17:30

Instrument ID: HP5973P

Lims ID: 480-110087-D-6

Lab Sample ID: 480-110087-6

Client ID: MW-2R

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

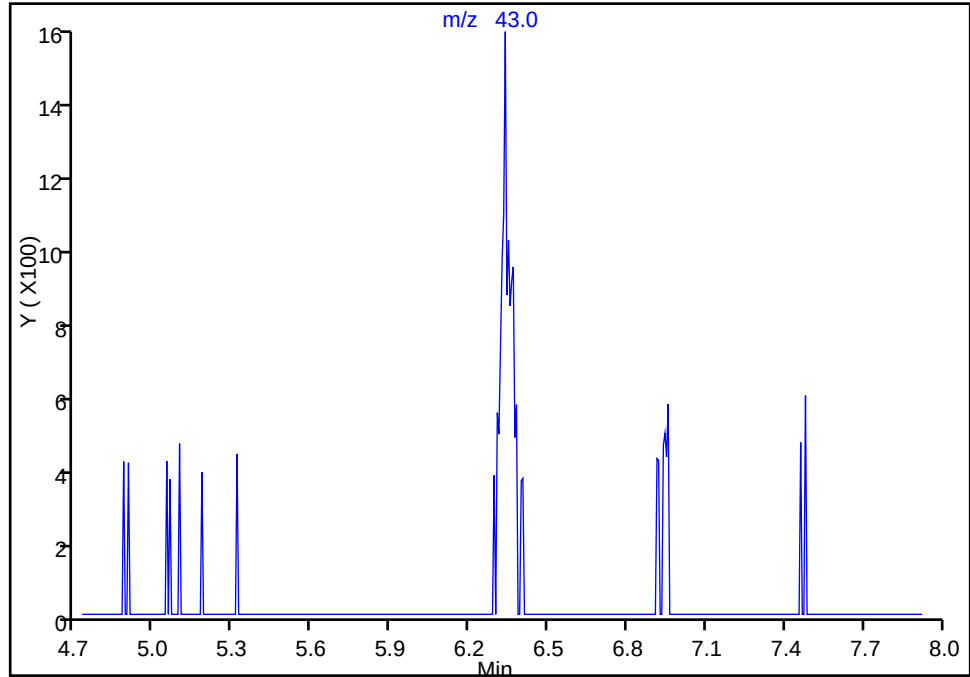
24 Acetone, CAS: 67-64-1

Signal: 1

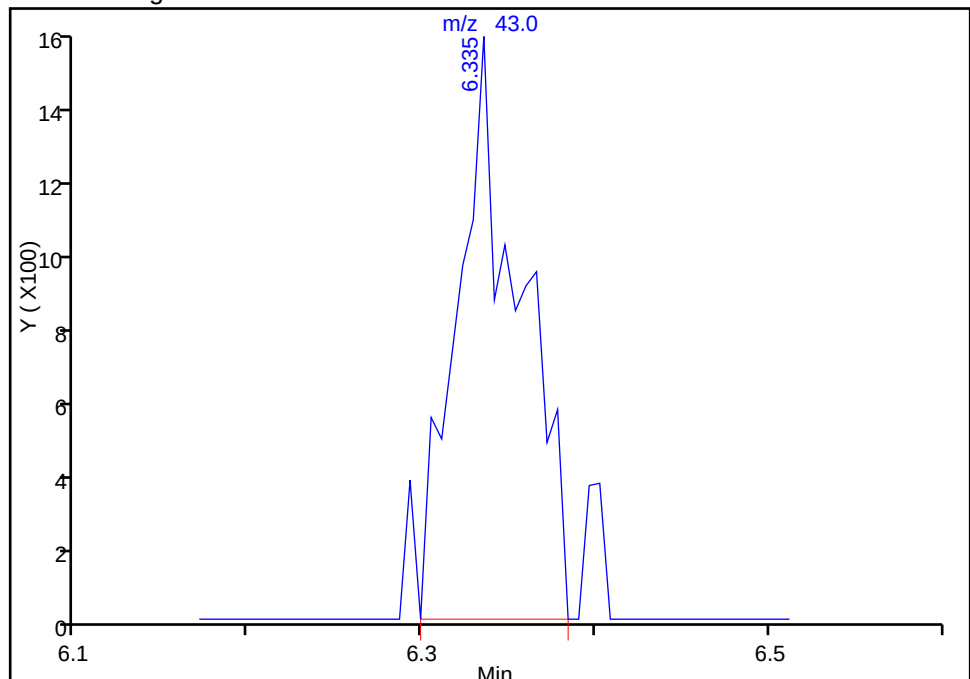
Not Detected

Expected RT: 6.32

Processing Integration Results



Manual Integration Results



RT: 6.34

Area: 3875

Amount: 0.958506

Amount Units: ug/L

Reviewer: gentilej, 04-Dec-2016 20:17:14

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1

SDG No.: _____

Client Sample ID: TRIP BLANK Lab Sample ID: 480-110087-7

Matrix: Water Lab File ID: P20760.D

Analysis Method: 8260C Date Collected: 11/17/2016 00:00

Sample wt/vol: 5 (mL) Date Analyzed: 11/30/2016 18:30

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

Analysis Batch No.: 334061 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
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
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
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
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-110087-7
 Matrix: Water Lab File ID: P20760.D
 Analysis Method: 8260C Date Collected: 11/17/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 11/30/2016 18:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334061 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
2037-26-5	Toluene-d8 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P20760.D
 Lims ID: 480-110087-A-7
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 30-Nov-2016 18:30:30 ALS Bottle#: 12 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110087-A-7
 Misc. Info.: 480-0058759-014
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 21:37:20 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK020

First Level Reviewer: youngmans

Date: 30-Nov-2016 21:37:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	99	142106	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.763	0.001	85	300547	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.750	0.001	93	400186	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.018	9.018	0.000	94	199290	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	113847	25.7	
\$ 5 Toluene-d8 (Surr)	98	11.799	11.798	0.001	93	645289	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	97	276721	25.7	
10 Dichlorodifluoromethane	85		3.993				ND	
11 Chloromethane	50		4.303				ND	
17 Vinyl chloride	62		4.528				ND	
12 Bromomethane	94		5.070				ND	
13 Chloroethane	64		5.204				ND	
14 Trichlorofluoromethane	101		5.593				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.238				ND	
25 1,1-Dichloroethene	96		6.286				ND	
24 Acetone	43	6.342	6.342	0.019	32	3665	0.7785	7
27 Carbon disulfide	76		6.670				ND	
30 Methyl acetate	43		6.700				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.162				ND	
35 trans-1,2-Dichloroethene	96		7.229				ND	
40 1,1-Dichloroethane	63		7.753				ND	
44 2-Butanone (MEK)	43		8.397				ND	
43 cis-1,2-Dichloroethene	96		8.452				ND	
49 Chloroform	83		8.805				ND	
52 1,1,1-Trichloroethane	97		9.061				ND	
54 Cyclohexane	56		9.134				ND	
55 Carbon tetrachloride	117		9.273				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.541				ND	
62 Trichloroethene	95		10.271				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.502				ND	
63 1,2-Dichloropropane	63		10.581				ND	
70 Dichlorobromomethane	83		10.910				ND	
73 cis-1,3-Dichloropropene	75		11.445				ND	
75 4-Methyl-2-pentanone (MIBK)	43		11.555				ND	
76 Toluene	92		11.889				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.425				ND	
80 Tetrachloroethene	166		12.632				ND	
83 2-Hexanone	43		12.644				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.867				ND	
90 m-Xylene & p-Xylene	106		14.013				ND	
93 o-Xylene	106		14.560				ND	
94 Styrene	104		14.578				ND	
92 Bromoform	173		14.925				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.677				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.267				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.247				ND	
119 1,2,4-Trichlorobenzene	180		19.317				ND	
S 126 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

P 8260 IS_00183

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr_00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P20760.D

Injection Date: 30-Nov-2016 18:30:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: 480-110087-A-7

Lab Sample ID: 480-110087-7

Worklist Smp#: 14

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

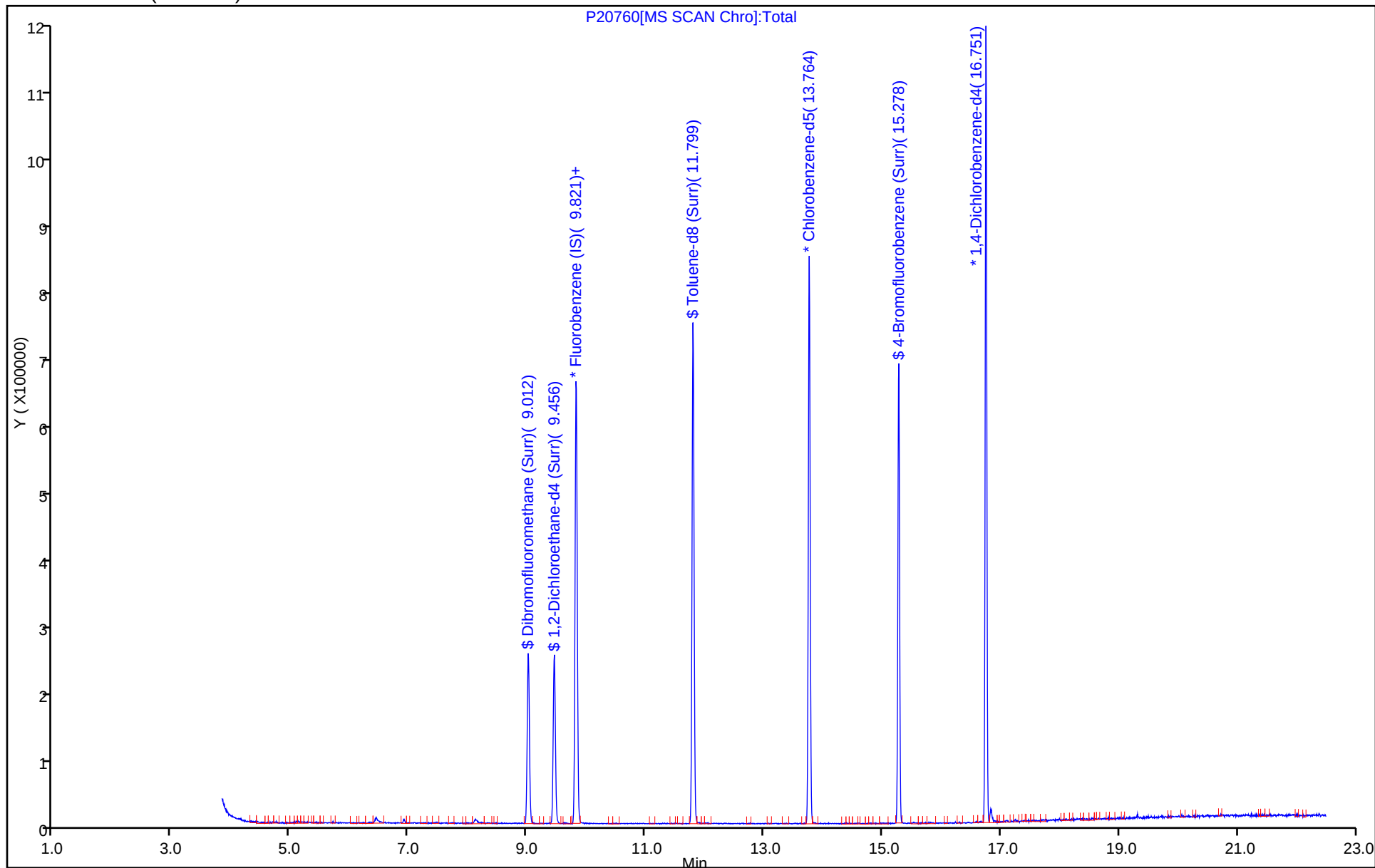
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>DUP-112216</u>	Lab Sample ID: <u>480-110087-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>P20901.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/22/2016 00:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 14:45</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334557</u>	Units: <u>ug/L</u>

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
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
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
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
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: DUP-112216 Lab Sample ID: 480-110087-8
 Matrix: Water Lab File ID: P20901.D
 Analysis Method: 8260C Date Collected: 11/22/2016 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 14:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334557 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)	101		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20901.D
 Lims ID: 480-110087-D-8
 Client ID: DUP-112216
 Sample Type: Client
 Inject. Date: 03-Dec-2016 14:45:30 ALS Bottle#: 13 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110087-d-8
 Misc. Info.: 480-0058849-015
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2016 20:17:14 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: gentilej

Date: 04-Dec-2016 20:17:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.815	0.006	99	122683	25.0	
* 2 Chlorobenzene-d5	82	13.758	13.757	0.001	85	249426	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	93	322717	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.006	0.006	94	172970	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.444	0.006	0	96826	25.3	
\$ 5 Toluene-d8 (Surr)	98	11.799	11.792	0.007	93	551645	25.5	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	97	225206	25.2	
10 Dichlorodifluoromethane	85		3.987				ND	
11 Chloromethane	50		4.304				ND	
17 Vinyl chloride	62		4.529				ND	
12 Bromomethane	94		5.082				ND	
13 Chloroethane	64		5.210				ND	
14 Trichlorofluoromethane	101		5.605				ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244				ND	
25 1,1-Dichloroethene	96		6.287				ND	
24 Acetone	43		6.323				ND	
27 Carbon disulfide	76		6.670				ND	
30 Methyl acetate	43		6.694				ND	
31 Methylene Chloride	84		6.907				ND	
32 Methyl tert-butyl ether	73		7.163				ND	
35 trans-1,2-Dichloroethene	96		7.230				ND	
40 1,1-Dichloroethane	63		7.747				ND	
44 2-Butanone (MEK)	43		8.392				ND	
43 cis-1,2-Dichloroethene	96		8.446				ND	
49 Chloroform	83		8.799				ND	
52 1,1,1-Trichloroethane	97		9.061				ND	
54 Cyclohexane	56		9.128				ND	
55 Carbon tetrachloride	117		9.268				ND	
57 Benzene	78		9.517				ND	
60 1,2-Dichloroethane	62		9.542				ND	
62 Trichloroethene	95		10.272				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		10.503				ND	
63 1,2-Dichloropropane	63		10.582				ND	
70 Dichlorobromomethane	83		10.904				ND	
73 cis-1,3-Dichloropropene	75		11.440				ND	
75 4-Methyl-2-pentanone (MIBK)	43		11.549				ND	
76 Toluene	92		11.884				ND	
78 trans-1,3-Dichloropropene	75		12.145				ND	
79 1,1,2-Trichloroethane	83		12.425				ND	
80 Tetrachloroethene	166		12.632				ND	
83 2-Hexanone	43		12.638				ND	
81 Chlorodibromomethane	129		13.009				ND	
85 Ethylene Dibromide	107		13.210				ND	
87 Chlorobenzene	112		13.800				ND	
89 Ethylbenzene	91		13.861				ND	
90 m-Xylene & p-Xylene	106		14.007				ND	
93 o-Xylene	106		14.554				ND	
94 Styrene	104		14.573				ND	
92 Bromoform	173		14.925				ND	
95 Isopropylbenzene	105		14.998				ND	
97 1,1,2,2-Tetrachloroethane	83		15.424				ND	
110 1,3-Dichlorobenzene	146		16.671				ND	
111 1,4-Dichlorobenzene	146		16.781				ND	
116 1,2-Dichlorobenzene	146		17.262				ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241				ND	
119 1,2,4-Trichlorobenzene	180		19.318				ND	
S 126 Xylenes, Total	1		30.000				ND	

Reagents:

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20901.D

Injection Date: 03-Dec-2016 14:45:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: 480-110087-D-8

Lab Sample ID: 480-110087-8

Worklist Smp#: 15

Client ID: DUP-112216

Purge Vol: 5.000 mL

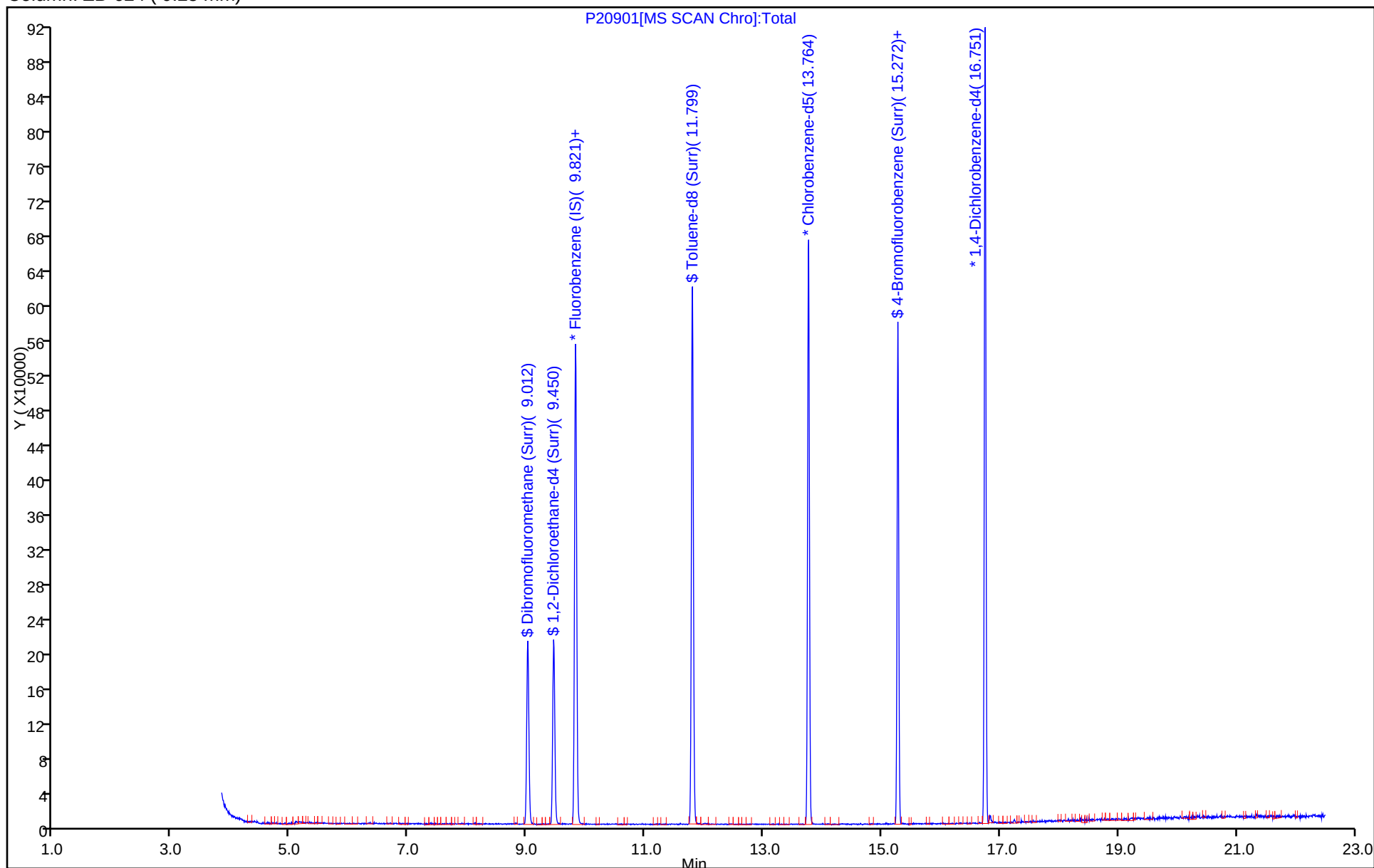
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



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

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 333850

SDG No.: _____

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2016 14:39 Calibration End Date: 11/29/2016 17:23 Calibration ID: 29023

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-333850/5	P20729.D
Level 2	IC 480-333850/6	P20730.D
Level 3	IC 480-333850/7	P20731.D
Level 4	IC 480-333850/8	P20732.D
Level 5	ICIS 480-333850/9	P20733.D
Level 6	IC 480-333850/10	P20734.D
Level 7	IC 480-333850/11	P20735.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	2.0775 2.0349	1.7890 1.9507	2.0864	2.0405	2.0145	Ave		1.9991			0.1000	5.1		20.0			
Chloromethane	2.0588 1.4395	1.8830 1.4990	1.6856	1.5845	1.5352	Ave		1.6694			0.1000	13.5		20.0			
Vinyl chloride	1.3675 1.1851	1.2891 1.2418	1.3649	1.2240	1.2628	Ave		1.2764			0.1000	5.4		20.0			
Butadiene	1.4376 1.2037	1.4779 1.2005	1.3693	1.3151	1.2618	Ave		1.3237				8.3		20.0			
Bromomethane	++++ 1.2013	0.5328 1.2118	0.6560	1.1829	0.9726	Lin1	-1.008	1.1898			0.1000				0.9930		0.9900
Chloroethane	0.8560 1.1738	0.6562 1.0920	1.2161	1.0957	1.1747	Ave		1.0378			0.1000	19.8		20.0			
Dichlorofluoromethane	++++ 3.1586	2.9494 2.7776	3.1803	2.7448	3.0898	Ave		2.9834				6.4		20.0			
Trichlorofluoromethane	++++ 3.0222	2.8038 2.9403	2.9674	2.8430	2.9988	Ave		2.9292			0.1000	3.0		20.0			
Ethyl ether	++++ 1.9023	1.9699 1.8318	1.8171	1.8617	1.8915	Ave		1.8791				2.9		20.0			
Acrolein	++++ 0.5577	0.4870 0.5234	0.5124	0.5319	0.5572	Ave		0.5283				5.1		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 1.9885	2.0669 1.8559	2.0650	1.9745	2.0733	Ave		2.0040			0.1000	4.2		20.0			
1,1-Dichloroethene	++++ 1.8305	2.1362 1.7118	1.8822	1.8211	1.8381	Ave		1.8700			0.1000	7.6		20.0			
Acetone	0.8244 0.8221	0.9038 0.7265	0.8440	0.8489	0.8279	Ave		0.8282			0.1000	6.4		20.0			
Iodomethane	++++ 3.9339	3.9102 3.7793	3.7803	3.7106	3.9033	Ave		3.8363				2.4		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 333850
SDG No.: _____
Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/29/2016 14:39 Calibration End Date: 11/29/2016 17:23 Calibration ID: 29023

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	++++ 5.5507	5.6313 5.0371	5.8224	5.4701	5.7443	Ave		5.5427			0.1000	5.0		20.0			
Methyl acetate	2.1175 2.1547	2.5773 1.8616	2.3948	2.3714	2.2679	Ave		2.2493			0.1000	10.3		20.0			
Allyl chloride	++++ 2.9259	3.2416 2.6201	3.0605	3.0945	3.0364	Ave		2.9965				7.0		20.0			
Methylene Chloride	++++ 1.9225	3.1809 1.7952	2.2918	2.0916	1.9812	Lin1	1.6346	1.8373			0.1000				0.9980		0.9900
2-Methyl-2-propanol	++++ 0.4416	0.3301 0.4014	0.3931	0.3925	0.4235	Ave		0.3970				9.6		20.0			
Methyl tert-butyl ether	++++ 5.2836	5.4125 5.0104	5.1746	5.2111	5.3904	Ave		5.2471			0.1000	2.8		20.0			
Acrylonitrile	1.1379 1.1692	1.3408 0.9677	1.3360	1.2946	1.2477	Ave		1.2134				11.0		20.0			
trans-1,2-Dichloroethene	++++ 1.8354	2.1267 1.6884	2.0513	1.9922	1.9310	Ave		1.9375			0.1000	8.1		20.0			
Hexane	++++ 2.8422	3.1032 2.6677	2.9009	2.8450	2.8449	Ave		2.8673				4.9		20.0			
Vinyl acetate	++++ 4.8029	4.3080 4.2556	4.6734	4.8210	4.8514	Ave		4.6187				5.8		20.0			
1,1-Dichloroethane	++++ 3.4998	3.9319 3.3294	3.7670	3.6603	3.5852	Ave		3.6289			0.2000	5.8		20.0			
2-Butanone (MEK)	++++ 1.4315	1.4589 1.2701	1.3881	1.4444	1.4453	Ave		1.4064			0.1000	5.1		20.0			
2,2-Dichloropropane	++++ 2.4753	2.5549 2.3379	2.6106	2.4816	2.5716	Ave		2.5053				3.9		20.0			
cis-1,2-Dichloroethene	1.9444 2.0919	2.3422 1.9512	2.1722	2.1226	2.1287	Ave		2.1076			0.1000	6.5		20.0			
Chlorobromomethane	++++ 1.1802	1.1888 1.1519	1.1825	1.1630	1.1641	Ave		1.1718				1.2		20.0			
Tetrahydrofuran	++++ 0.9598	1.0172 0.8451	0.9859	0.9884	0.9967	Ave		0.9655				6.4		20.0			
Chloroform	3.6888 3.1706	3.8280 3.0015	3.3798	3.3448	3.2896	Ave		3.3861			0.2000	8.5		20.0			
1,1,1-Trichloroethane	2.6612 2.9729	3.2461 2.8442	2.9407	2.8920	3.0077	Ave		2.9378			0.1000	6.0		20.0			
Cyclohexane	++++ 4.0016	3.9850 3.7048	3.7009	3.6382	3.8319	Ave		3.8104			0.1000	4.1		20.0			
Isobutyl alcohol	++++ 0.1582	0.1066 0.1398	0.1365	0.1224	0.1529	Ave		0.1361				14.1		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.: 480-110087-1 Analy Batch No.: 333850
SDG No.: _____
Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/29/2016 14:39 Calibration End Date: 11/29/2016 17:23 Calibration ID: 29023

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	2.0278 2.2952	2.3398 2.0830	2.4303	2.4305	2.2998	Ave		2.2724				7.0		20.0			
Carbon tetrachloride	++++ 2.7454	2.6887 2.6043	2.7288	2.6168	2.7561	Ave		2.6900			0.1000	2.4		20.0			
Benzene	6.1256 6.3336	7.3834 5.8242	6.8225	6.6836	6.6044	Ave		6.5396			0.5000	7.8		20.0			
1,2-Dichloroethane	3.0331 2.8939	3.2918 2.6660	2.9970	2.9276	2.9181	Ave		2.9611			0.1000	6.3		20.0			
n-Heptane	2.4084 2.2678	2.6387 1.9931	2.4246	2.3019	2.3189	Ave		2.3362				8.4		20.0			
Trichloroethene	++++ 1.9902	1.9302 1.9149	2.0220	1.9027	1.9686	Ave		1.9548			0.2000	2.4		20.0			
Methylcyclohexane	++++ 2.9758	2.9155 2.8169	2.8548	2.8300	2.9903	Ave		2.8972			0.1000	2.6		20.0			
1,2-Dichloropropane	++++ 1.9442	2.0316 1.8333	1.9465	1.8932	1.8871	Ave		1.9226			0.1000	3.5		20.0			
1,4-Dioxane	++++ 0.0130	0.0093 0.0108	0.0143	0.0125	0.0132	Ave		0.0122				15.0		20.0			
Dibromomethane	++++ 1.2570	1.2493 1.2062	1.2531	1.2152	1.2701	Ave		1.2418			0.1000	2.0		20.0			
Bromodichloromethane	++++ 2.4491	2.1266 2.3589	2.1594	2.2482	2.3635	Ave		2.2843			0.2000	5.6		20.0			
2-Chloroethyl vinyl ether	++++ 1.5282	1.0892 1.4480	1.2025	1.3053	1.4200	Ave		1.3322				12.4		20.0			
cis-1,3-Dichloropropene	++++ 2.7703	2.1833 2.6913	2.4519	2.4518	2.6862	Ave		2.5391			0.2000	8.6		20.0			
4-Methyl-2-pentanone (MIBK)	++++ 1.2444	1.2865 0.9805	1.3820	1.4227	1.3868	Ave		1.2838			0.1000	12.7		20.0			
Toluene	1.8010 1.8806	2.1259 1.7687	2.0149	1.9552	1.9604	Ave		1.9295			0.4000	6.4		20.0			
Ethyl methacrylate	0.5257 1.0831	0.7139 1.0296	0.8771	0.9601	1.0847	Lin1	-0.323	1.0520							0.9990		0.9900
trans-1,3-Dichloropropene	++++ 1.1763	1.0518 1.1039	1.1230	1.1537	1.2153	Ave		1.1373			0.1000	5.1		20.0			
1,1,2-Trichloroethane	++++ 0.6663	0.7101 0.6391	0.6871	0.6859	0.6900	Ave		0.6797			0.1000	3.6		20.0			
Tetrachloroethene	++++ 1.0332	1.1238 0.9482	1.1199	1.1018	1.0740	Ave		1.0668			0.2000	6.3		20.0			
2-Hexanone	++++ 0.8348	0.8532 0.6230	0.9346	0.9741	0.9394	Ave		0.8598			0.1000	14.9		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.: 480-110087-1 Analy Batch No.: 333850
SDG No.: _____
Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/29/2016 14:39 Calibration End Date: 11/29/2016 17:23 Calibration ID: 29023

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	++++ 1.1538	1.3969 1.0152	1.3470	1.3518	1.2721	Ave		1.2561				11.6		20.0			
Dibromochloromethane	++++ 1.0427	0.7465 1.0421	0.8299	0.8905	1.0146	Ave		0.9277			0.1000	13.4		20.0			
1,2-Dibromoethane	++++ 0.9928	0.8958 0.9450	0.9530	0.9710	0.9848	Ave		0.9571				3.7		20.0			
Chlorobenzene	2.2746 2.4833	2.8531 2.3638	2.5587	2.5231	2.5525	Ave		2.5156			0.5000	7.2		20.0			
Ethylbenzene	3.1865 3.4477	3.7222 3.1360	3.6993	3.6272	3.6841	Ave		3.5004			0.1000	7.1		20.0			
1,1,1,2-Tetrachloroethane	++++ 0.9986	0.9610 0.9230	0.9784	0.9767	1.0363	Ave		0.9790				3.9		20.0			
m,p-Xylene	++++ 1.5419	1.5101 1.4522	1.5775	1.5708	1.6003	Ave		1.5421			0.1000	3.5		20.0			
o-Xylene	++++ 1.5596	1.4793 1.4270	1.5559	1.6065	1.6619	Ave		1.5484			0.3000	5.5		20.0			
Styrene	++++ 2.3120	1.9469 2.1198	2.1715	2.3085	2.4026	Ave		2.2102			0.3000	7.5		20.0			
Bromoform	++++ 0.8457	0.5289 0.8593	0.5887	0.6613	0.7716	Ave		0.7093			0.1000	19.4		20.0			
Isopropylbenzene	++++ 2.8968	2.5028 2.7622	2.7616	2.8654	2.9258	Ave		2.7858			0.1000	5.5		20.0			
1,1,2,2-Tetrachloroethane	++++ 0.9871	1.0489 0.9690	0.9726	0.9766	0.9968	Ave		0.9918			0.3000	3.0		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.3403	0.2512 0.3364	0.2705	0.2996	0.3338	Ave		0.3053				12.4		20.0			
1,2,3-Trichloropropane	++++ 0.3051	0.3368 0.2794	0.3228	0.3092	0.3159	Ave		0.3115				6.2		20.0			
Bromobenzene	++++ 0.9508	1.0827 0.8955	0.9872	0.9629	0.9629	Ave		0.9737				6.3		20.0			
N-Propylbenzene	++++ 3.1235	3.5773 2.8456	3.3611	3.3346	3.3150	Ave		3.2595				7.6		20.0			
2-Chlorotoluene	++++ 0.7981	0.7943 0.7292	0.8490	0.8351	0.8400	Ave		0.8076				5.5		20.0			
1,3,5-Trimethylbenzene	++++ 2.3434	2.4086 2.1587	2.4027	2.4331	2.4644	Ave		2.3685				4.7		20.0			
4-Chlorotoluene	0.8013 0.8476	0.8152 0.8094	0.8163	0.8484	0.8535	Ave		0.8274				2.6		20.0			
tert-Butylbenzene	++++ 0.6403	0.5337 0.6255	0.5848	0.5939	0.6371	Ave		0.6026				6.8		20.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 333850
SDG No.: _____
Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 11/29/2016 14:39 Calibration End Date: 11/29/2016 17:23 Calibration ID: 29023

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	++++ 2.5382	2.3608 2.3868	2.4909	2.5297	2.5832	Ave		2.4816				3.6		20.0			
sec-Butylbenzene	++++ 3.0683	2.8634 2.9120	3.0048	3.0260	3.1428	Ave		3.0029				3.4		20.0			
4-Isopropyltoluene	++++ 3.0196	2.5793 2.8536	2.8275	2.9122	3.0686	Ave		2.8768				6.0		20.0			
1,3-Dichlorobenzene	1.5970 1.7031	1.8992 1.6401	1.7161	1.7267	1.7410	Ave		1.7176			0.6000	5.5		20.0			
1,4-Dichlorobenzene	1.7518 1.7029	1.9534 1.6244	1.8056	1.7492	1.7363	Ave		1.7605			0.5000	5.8		20.0			
n-Butylbenzene	++++ 2.2993	2.3140 2.1842	2.2495	2.3094	2.3518	Ave		2.2847				2.6		20.0			
1,2-Dichlorobenzene	++++ 1.7330	1.8129 1.7093	1.7289	1.7248	1.7430	Ave		1.7420			0.4000	2.1		20.0			
1,2-Dibromo-3-Chloropropane	++++ 0.2400	0.2018 0.2482	0.1817	0.2049	0.2181	Ave		0.2158			0.0500	11.6		20.0			
1,2,4-Trichlorobenzene	++++ 1.5027	1.4264 1.4790	1.3735	1.3814	1.4748	Ave		1.4396			0.2000	3.8		20.0			
Hexachlorobutadiene	++++ 0.6100	0.5878 0.6021	0.5615	0.5631	0.6156	Ave		0.5900				4.0		20.0			
Naphthalene	++++ 4.1467	3.6560 3.9016	3.7617	3.9215	4.1406	Ave		3.9214				5.0		20.0			
1,2,3-Trichlorobenzene	++++ 1.4406	1.4259 1.3852	1.3023	1.3622	1.4371	Ave		1.3922				3.9		20.0			
Dibromofluoromethane (Surr)	1.4026 1.3989	1.3728 1.3789	1.3832	1.3745	1.4083	Ave		1.3884				1.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8008 0.7593	0.7863 0.7706	0.7748	0.7977	0.7625	Ave		0.7789				2.1		20.0			
Toluene-d8 (Surr)	2.1449 2.1676	2.1850 2.1657	2.1779	2.1581	2.2064	Ave		2.1722				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.8561 0.9099	0.8656 0.9334	0.8922	0.8991	0.9159	Ave		0.8960				3.1		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.: 480-110087-1 Analy Batch No.: 333850

SDG No.: _____

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2016 14:39 Calibration End Date: 11/29/2016 17:23 Calibration ID: 29023

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-333850/5	P20729.D
Level 2	IC 480-333850/6	P20730.D
Level 3	IC 480-333850/7	P20731.D
Level 4	IC 480-333850/8	P20732.D
Level 5	ICIS 480-333850/9	P20733.D
Level 6	IC 480-333850/10	P20734.D
Level 7	IC 480-333850/11	P20735.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	5776 611446	10403 1214334	60690	122429	299687	0.500 50.0	1.00 100	5.00	10.0	25.0
Chloromethane	FB	Ave	5724 432534	10950 933156	49032	95071	228389	0.500 50.0	1.00 100	5.00	10.0	25.0
Vinyl chloride	FB	Ave	3802 356087	7496 773049	39703	73439	187867	0.500 50.0	1.00 100	5.00	10.0	25.0
Butadiene	FB	Ave	3997 361680	8594 747310	39830	78905	187706	0.500 50.0	1.00 100	5.00	10.0	25.0
Bromomethane	FB	Lin1	++++ 360948	3098 754379	19082	70977	144688	++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroethane	FB	Ave	2380 352707	3816 679762	35374	65745	174755	0.500 50.0	1.00 100	5.00	10.0	25.0
Dichlorofluoromethane	FB	Ave	++++ 949070	17151 1729064	92511	164692	459658	++++ 50.0	1.00 100	5.00	10.0	25.0
Trichlorofluoromethane	FB	Ave	++++ 908090	16304 1830341	86317	170583	446115	++++ 50.0	1.00 100	5.00	10.0	25.0
Ethyl ether	FB	Ave	++++ 571584	11455 1140347	52856	111705	281397	++++ 50.0	1.00 100	5.00	10.0	25.0
Acrolein	FB	Ave	++++ 837876	14160 1629070	74528	159571	414482	++++ 250	5.00 500	25.0	50.0	125
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	++++ 597485	12019 1155291	60068	118468	308432	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dichloroethene	FB	Ave	++++ 550013	12422 1065598	54751	109269	273448	++++ 50.0	1.00 100	5.00	10.0	25.0
Acetone	FB	Ave	11461 1235043	26278 2261185	122761	254684	615820	2.50 250	5.00 500	25.0	50.0	125
Iodomethane	FB	Ave	++++ 1182039	22738 2352679	109964	222639	580675	++++ 50.0	1.00 100	5.00	10.0	25.0
Carbon disulfide	FB	Ave	++++ 1667862	32746 3135675	169368	328207	854561	++++ 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.: 480-110087-1 Analy Batch No.: 333850

SDG No.: _____

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2016 14:39 Calibration End Date: 11/29/2016 17:23 Calibration ID: 29023

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	29437 3237144	74935 5794278	348306	711436	1686964	2.50 250	5.00 500	25.0	50.0	125
Allyl chloride	FB	Ave	++++ 879156	18850 1631024	89025	185672	451714	++++ 50.0	1.00 100	5.00	10.0	25.0
Methylene Chloride	FB	Lin1	++++ 577679	18497 1117528	66666	125494	294738	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Methyl-2-propanol	FB	Ave	++++ 1326927	19194 2498558	114335	235483	630090	++++ 500	10.0 1000	50.0	100	250
Methyl tert-butyl ether	FB	Ave	++++ 1587584	31474 3119049	150522	312671	801902	++++ 50.0	1.00 100	5.00	10.0	25.0
Acrylonitrile	FB	Ave	31637 3513048	77969 6023749	388626	776750	1856112	5.00 500	10.0 1000	50.0	100	250
trans-1,2-Dichloroethene	FB	Ave	++++ 551481	12367 1051071	59671	119533	287262	++++ 50.0	1.00 100	5.00	10.0	25.0
Hexane	FB	Ave	++++ 854005	18045 1660662	84384	170701	423231	++++ 50.0	1.00 100	5.00	10.0	25.0
Vinyl acetate	FB	Ave	++++ 2886300	50102 5298296	271887	578521	1443434	++++ 100	2.00 200	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	++++ 1051596	22864 2072572	109577	219621	533351	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Butanone (MEK)	FB	Ave	++++ 2150692	42417 3953272	201887	433337	1075092	++++ 250	5.00 500	25.0	50.0	125
2,2-Dichloropropane	FB	Ave	++++ 743771	14857 1455400	75938	148898	382565	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,2-Dichloroethene	FB	Ave	5406 628564	13620 1214645	63187	127359	316671	0.500 50.0	1.00 100	5.00	10.0	25.0
Chlorobromomethane	FB	Ave	++++ 354633	6913 717098	34398	69780	173185	++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrahydrofuran	FB	Ave	++++ 576803	11830 1052172	57356	118607	296541	++++ 100	2.00 200	10.0	20.0	50.0
Chloroform	FB	Ave	10256 952693	22260 1868480	98313	200688	489378	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,1-Trichloroethane	FB	Ave	7399 893292	18876 1770554	85542	173523	447446	0.500 50.0	1.00 100	5.00	10.0	25.0
Cyclohexane	FB	Ave	++++ 1202384	23173 2306259	107656	218294	570060	++++ 50.0	1.00 100	5.00	10.0	25.0
Isobutyl alcohol	FB	Ave	++++ 1188300	15497 2176162	99290	183671	568491	++++ 1250	25.0 2500	125	250	625
1,1-Dichloropropene	FB	Ave	5638 689663	13606 1296709	70694	145833	342133	0.500 50.0	1.00 100	5.00	10.0	25.0
Carbon tetrachloride	FB	Ave	++++ 824927	15635 1621185	79377	157010	410011	++++ 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.: 480-110087-1 Analy Batch No.: 333850

SDG No.: _____

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2016 14:39 Calibration End Date: 11/29/2016 17:23 Calibration ID: 29023

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	17031 1903101	42935 3625617	198457	401020	982503	0.500 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloroethane	FB	Ave	8433 869544	19142 1659621	87179	175659	434117	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Heptane	FB	Ave	6696 681424	15344 1240744	70528	138114	344970	0.500 50.0	1.00 100	5.00	10.0	25.0
Trichloroethene	FB	Ave	++++ 598008	11224 1192026	58819	114163	292857	++++ 50.0	1.00 100	5.00	10.0	25.0
Methylcyclohexane	FB	Ave	++++ 894148	16954 1753580	83042	169800	444858	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichloropropane	FB	Ave	++++ 584186	11814 1141239	56620	113591	280739	++++ 50.0	1.00 100	5.00	10.0	25.0
1,4-Dioxane	CBNZ d5	Ave	++++ 168349	2190 290048	17219	30641	81402	++++ 1000	20.0 2000	100	200	500
Dibromomethane	FB	Ave	++++ 377712	7265 750879	36450	72910	188954	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromodichloromethane	FB	Ave	++++ 735883	12366 1468473	62814	134894	351609	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 459174	6334 901369	34980	78316	211246	++++ 50.0	1.00 100	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	++++ 832402	12696 1675386	71322	147111	399616	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	++++ 4022854	75982 6552779	415691	868759	2133547	++++ 250	5.00 500	25.0	50.0	125
Toluene	CBNZ d5	Ave	10679 1215892	25111 2364197	121217	238778	603216	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethyl methacrylate	CBNZ d5	Lin1	3117 700262	8433 1376263	52766	117258	333761	0.500 50.0	1.00 100	5.00	10.0	25.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 760503	12424 1475595	67562	140892	373941	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 430769	8388 854313	41333	83765	212300	++++ 50.0	1.00 100	5.00	10.0	25.0
Tetrachloroethene	CBNZ d5	Ave	++++ 667999	13275 1267461	67371	134553	330487	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Hexanone	CBNZ d5	Ave	++++ 2698673	50388 4163481	281120	594828	1445241	++++ 250	5.00 500	25.0	50.0	125
1,3-Dichloropropane	CBNZ d5	Ave	++++ 745984	16500 1356931	81034	165085	391442	++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromochloromethane	CBNZ d5	Ave	++++ 674144	8818 1392950	49926	108754	312190	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromoethane	CBNZ d5	Ave	++++ 641844	10581 1263204	57330	118583	303037	++++ 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.: 480-110087-1 Analy Batch No.: 333850

SDG No.: _____

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2016 14:39 Calibration End Date: 11/29/2016 17:23 Calibration ID: 29023

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	13487 1605532	33701 3159634	153933	308128	785407	0.500 50.0	1.00 100	5.00	10.0	25.0
Ethylbenzene	CBNZ d5	Ave	18894 2229069	43967 4191777	222547	442974	1133607	0.500 50.0	1.00 100	5.00	10.0	25.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 645603	11351 1233739	58861	119279	318871	++++ 50.0	1.00 100	5.00	10.0	25.0
m,p-Xylene	CBNZ d5	Ave	++++ 996906	17837 1941172	94899	191829	492418	++++ 50.0	1.00 100	5.00	10.0	25.0
o-Xylene	CBNZ d5	Ave	++++ 1008322	17474 1907503	93605	196190	511366	++++ 50.0	1.00 100	5.00	10.0	25.0
Styrene	CBNZ d5	Ave	++++ 1494757	22997 2833443	130637	281927	739290	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromoform	CBNZ d5	Ave	++++ 546775	6248 1148649	35418	80760	237411	++++ 50.0	1.00 100	5.00	10.0	25.0
Isopropylbenzene	DCBd 4	Ave	++++ 2422344	38692 4617329	224909	466282	1208310	++++ 50.0	1.00 100	5.00	10.0	25.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	++++ 825404	16215 1619870	79205	158915	411642	++++ 50.0	1.00 100	5.00	10.0	25.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 284563	3883 562397	22033	48759	137870	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 255140	5206 467027	26287	50321	130440	++++ 50.0	1.00 100	5.00	10.0	25.0
Bromobenzene	DCBd 4	Ave	++++ 795082	16738 1496892	80394	156701	397660	++++ 50.0	1.00 100	5.00	10.0	25.0
N-Propylbenzene	DCBd 4	Ave	++++ 2611920	55302 4756694	273727	542644	1369022	++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorotoluene	DCBd 4	Ave	++++ 667409	12280 1218966	69140	135889	346906	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 1959592	37235 3608468	195676	395934	1017760	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorotoluene	DCBd 4	Ave	6142 708754	12603 1353067	66483	138063	352496	0.500 50.0	1.00 100	5.00	10.0	25.0
tert-Butylbenzene	DCBd 4	Ave	++++ 535436	8251 1045672	47627	96640	263102	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	++++ 2122494	36497 3989842	202860	411657	1066790	++++ 50.0	1.00 100	5.00	10.0	25.0
sec-Butylbenzene	DCBd 4	Ave	++++ 2565751	44266 4867768	244712	492426	1297907	++++ 50.0	1.00 100	5.00	10.0	25.0
4-Isopropyltoluene	DCBd 4	Ave	++++ 2525065	39875 4770138	230270	473897	1267291	++++ 50.0	1.00 100	5.00	10.0	25.0
1,3-Dichlorobenzene	DCBd 4	Ave	12242 1424157	29360 2741633	139762	280991	718991	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.: 480-110087-1 Analy Batch No.: 333850

SDG No.: _____

Instrument ID: HP5973P GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2016 14:39 Calibration End Date: 11/29/2016 17:23 Calibration ID: 29023

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	13428 1423966	30199 2715320	147045	284644	717057	0.500 50.0	1.00 100	5.00	10.0	25.0
n-Butylbenzene	DCBd 4	Ave	++++ 1922712	35773 3651160	183199	375807	971235	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 1449146	28026 2857321	140802	280685	719807	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 200664	3119 414892	14799	33347	90060	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 1256555	22052 2472395	111858	224794	609065	++++ 50.0	1.00 100	5.00	10.0	25.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 510104	9087 1006452	45726	91635	254237	++++ 50.0	1.00 100	5.00	10.0	25.0
Naphthalene	DCBd 4	Ave	++++ 3467511	56520 6522051	306355	638152	1709965	++++ 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	++++ 1204624	22044 2315475	106060	221664	593498	++++ 50.0	1.00 100	5.00	10.0	25.0
Dibromofluoromethane (Surr)	FB	Ave	194982 210168	199565 214589	201183	206174	209507	25.0 25.0	25.0 25.0	25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	111325 114075	114313 119921	112695	119661	113440	25.0 25.0	25.0 25.0	25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	635880 700719	645230 723708	655093	658897	678925	25.0 25.0	25.0 25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	253795 294148	255622 311929	268379	274511	281835	25.0 25.0	25.0 25.0	25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20729.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 29-Nov-2016 14:39:30 ALS Bottle#: 5 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0058712-005
 Operator ID: RF Instrument ID: HP5973P
 Sublist: chrom-P-8260H2O*sub11
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 12:11:46 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: farrellr

Date: 30-Nov-2016 08:34:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	99	139016	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	85	296467	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	93	383273	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.018	9.012	0.006	94	194982	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.450	0.000	0	111325	25.0	25.7	
\$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	93	635880	25.0	24.7	
\$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	98	253795	25.0	23.9	
10 Dichlorodifluoromethane	85	4.005	3.975	0.030	27	5776	0.5000	0.5196	
11 Chloromethane	50	4.285	4.297	-0.012	35	5724	0.5000	0.6166	
17 Vinyl chloride	62	4.529	4.522	0.007	76	3802	0.5000	0.5357	
144 Butadiene	54	4.541	4.547	-0.006	93	3997	0.5000	0.5430	
12 Bromomethane	94	5.064	5.076	-0.012	9	1429	0.5000	1.06	
13 Chloroethane	64	5.216	5.204	0.012	1	2380	0.5000	0.4124	
19 Dichlorofluoromethane	67	5.490	5.490	0.000	95	10003	0.5000	0.6030	
14 Trichlorofluoromethane	101	5.587	5.587	0.000	17	9083	0.5000	0.5576	
20 Ethyl ether	59	5.910	5.903	0.007	97	4145	0.5000	0.3967	
22 Acrolein	56	6.171	6.153	0.018	68	5541	2.50	1.89	
16 1,1,2-Trichloro-1,2,2-trif	101	6.232	6.238	-0.006	55	4306	0.5000	0.3864	
25 1,1-Dichloroethene	96	6.293	6.287	0.006	94	4371	0.5000	0.4204	
24 Acetone	43	6.348	6.329	0.019	99	11461	2.50	2.49	
18 Iodomethane	142	6.573	6.554	0.019	96	8955	0.5000	0.4198	
27 Carbon disulfide	76	6.682	6.670	0.012	1	13313	0.5000	0.4319	M
30 Methyl acetate	43	6.713	6.700	0.013	99	29437	2.50	2.35	
28 3-Chloro-1-propene	41	6.743	6.737	0.006	79	7550	0.5000	0.4531	
31 Methylene Chloride	84	6.913	6.907	0.006	97	11744	0.5000	0.2598	
33 2-Methyl-2-propanol	59	6.932	6.938	-0.006	52	9619	5.00	4.36	
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	74	12671	0.5000	0.4343	
34 Acrylonitrile	53	7.211	7.199	0.012	97	31637	5.00	4.69	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.000	92	4619	0.5000	0.4287	
36 Hexane	57	7.467	7.467	0.000	90	6820	0.5000	0.4277	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.716	7.704	0.012	97	20445	1.00	0.7961	
40 1,1-Dichloroethane	63	7.753	7.759	-0.006	1	9163	0.5000	0.4541	
44 2-Butanone (MEK)	43	8.416	8.398	0.018	98	16495	2.50	2.11	
45 2,2-Dichloropropane	77	8.446	8.452	-0.006	61	6146	0.5000	0.4412	
43 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	80	5406	0.5000	0.4613	
50 Chlorobromomethane	128	8.775	8.769	0.006	91	2850	0.5000	0.4374	
51 Tetrahydrofuran	42	8.811	8.799	0.012	69	6040	1.00	1.13	
49 Chloroform	83	8.805	8.805	0.000	41	10256	0.5000	0.5447	
52 1,1,1-Trichloroethane	97	9.073	9.067	0.006	91	7399	0.5000	0.4529	
54 Cyclohexane	56	9.134	9.134	0.000	92	9048	0.5000	0.4270	
53 Isobutyl alcohol	43	9.237	9.219	0.018	62	7721	12.5	10.2	
56 1,1-Dichloropropene	75	9.249	9.243	0.006	80	5638	0.5000	0.4462	
55 Carbon tetrachloride	117	9.286	9.274	0.012	22	6124	0.5000	0.4094	
57 Benzene	78	9.517	9.523	-0.006	91	17031	0.5000	0.4683	
60 1,2-Dichloroethane	62	9.554	9.547	0.007	91	8433	0.5000	0.5122	
59 n-Heptane	43	9.645	9.645	0.000	91	6696	0.5000	0.5154	
62 Trichloroethene	95	10.278	10.277	0.001	91	4273	0.5000	0.3931	
64 Methylcyclohexane	83	10.515	10.509	0.006	91	6065	0.5000	0.3765	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	90	4477	0.5000	0.4188	
68 1,4-Dioxane	88	10.703	10.709	-0.006	1	473	10.0	3.27	M
69 Dibromomethane	93	10.770	10.776	-0.006	91	2949	0.5000	0.4271	
70 Dichlorobromomethane	83	10.904	10.910	-0.006	89	5563	0.5000	0.4380	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	13	2551	0.5000	0.3444	
73 cis-1,3-Dichloropropene	75	11.446	11.445	0.001	34	4780	0.5000	0.3385	
75 4-Methyl-2-pentanone (MIBK)	43	11.561	11.555	0.006	96	31846	2.50	2.09	
76 Toluene	92	11.890	11.890	0.000	98	10679	0.5000	0.4667	
77 Ethyl methacrylate	69	12.121	12.121	0.000	11	3117	0.5000	0.5573	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	82	4621	0.5000	0.3426	
79 1,1,2-Trichloroethane	83	12.437	12.431	0.006	27	3532	0.5000	0.4382	
80 Tetrachloroethene	166	12.638	12.638	0.000	45	5244	0.5000	0.4145	
83 2-Hexanone	43	12.644	12.644	0.000	96	19949	2.50	1.96	
82 1,3-Dichloropropane	76	12.681	12.668	0.013	40	6382	0.5000	0.4284	
81 Chlorodibromomethane	129	13.021	13.015	0.006	1	4196	0.5000	0.3814	
85 Ethylene Dibromide	107	13.210	13.210	0.000	92	4440	0.5000	0.3912	
87 Chlorobenzene	112	13.806	13.806	0.000	95	13487	0.5000	0.4521	
89 Ethylbenzene	91	13.873	13.867	0.006	97	18894	0.5000	0.4552	
88 1,1,1,2-Tetrachloroethane	131	13.879	13.885	-0.006	5	3792	0.5000	0.3266	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	6986	0.5000	0.3820	
93 o-Xylene	106	14.560	14.560	0.000	92	7495	0.5000	0.4082	
94 Styrene	104	14.579	14.579	0.000	92	9517	0.5000	0.3631	
92 Bromoform	173	14.925	14.931	-0.006	14	2729	0.5000	0.3245	
95 Isopropylbenzene	105	14.998	15.004	-0.006	94	15878	0.5000	0.3718	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.430	-0.006	91	6634	0.5000	0.4363	
98 trans-1,4-Dichloro-2-buten	53		15.479				ND	ND	
101 1,2,3-Trichloropropane	110	15.515	15.515	0.000	61	2016	0.5000	0.4221	
100 Bromobenzene	156	15.515	15.521	-0.006	90	6213	0.5000	0.4162	
99 N-Propylbenzene	91	15.534	15.534	0.000	91	19960	0.5000	0.3994	
103 2-Chlorotoluene	126	15.716	15.722	-0.006	96	4673	0.5000	0.3774	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	84	13536	0.5000	0.3728	
105 4-Chlorotoluene	126	15.850	15.850	0.000	94	6142	0.5000	0.4842	
106 tert-Butylbenzene	134	16.173	16.166	0.006	92	2969	0.5000	0.3214	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	93	13055	0.5000	0.3431	

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	16.440	16.440	0.000	93	17085	0.5000	0.3711	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	96	15306	0.5000	0.3470	
110 1,3-Dichlorobenzene	146	16.684	16.677	0.007	97	12242	0.5000	0.4649	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	91	13428	0.5000	0.4975	
115 n-Butylbenzene	91	17.103	17.103	0.000	97	14551	0.5000	0.4154	
116 1,2-Dichlorobenzene	146	17.268	17.267	0.001	94	11395	0.5000	0.4267	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	1	670	0.5000	0.2025	
119 1,2,4-Trichlorobenzene	180	19.324	19.318	0.006	89	9122	0.5000	0.4133	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	86	3535	0.5000	0.3908	
121 Naphthalene	128	19.719	19.713	0.006	96	22714	0.5000	0.3778	
122 1,2,3-Trichlorobenzene	180	20.066	20.072	-0.006	95	8400	0.5000	0.3936	
S 125 Total BTEX	1				0			2.18	
S 126 Xylenes, Total	1				0			0.7902	
S 123 1,2-Dichloroethene, Total	1				0			0.8900	
S 124 1,3-Dichloropropene, Total	1				0			0.6812	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00087

Amount Added: 0.50

Units: uL

GAS CORP mix_00192

Amount Added: 0.50

Units: uL

P 8260 IS_00184

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00201

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973P\\20161129-58712.b\\P20729.D

Injection Date: 29-Nov-2016 14:39:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

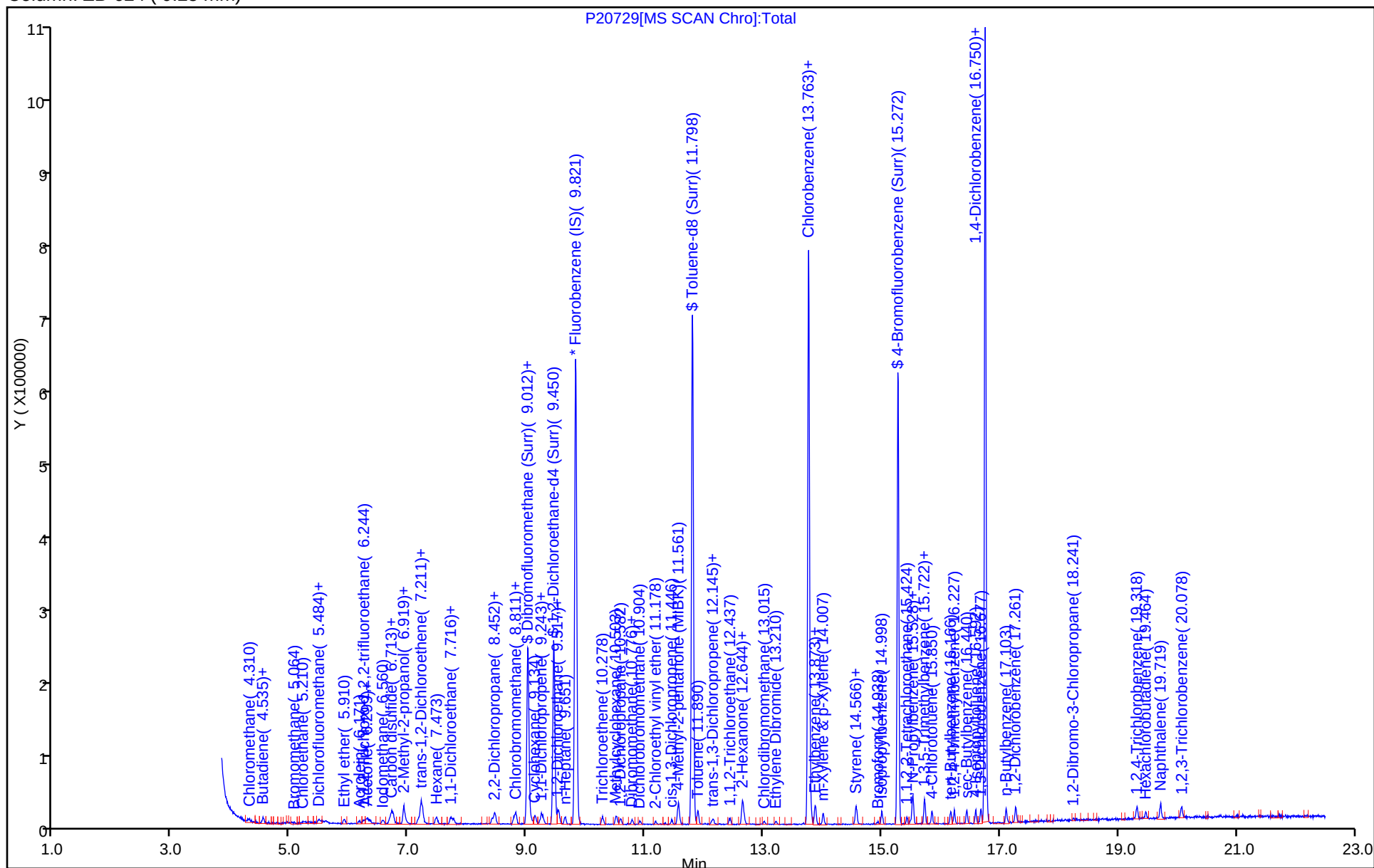
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

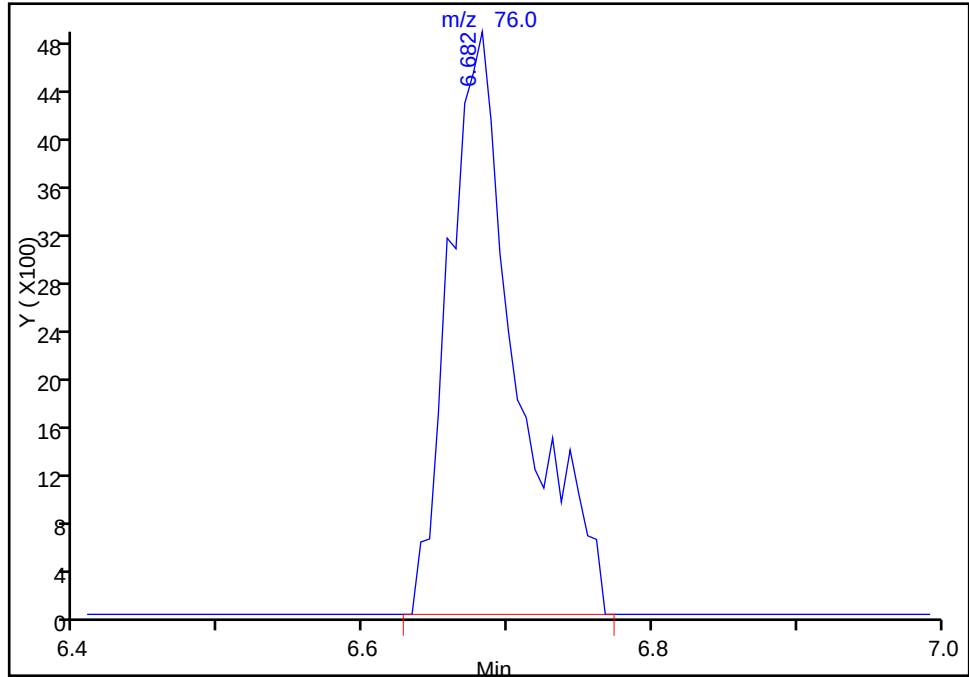
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Injection Date: 29-Nov-2016 14:39:30 Instrument ID: HP5973P
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

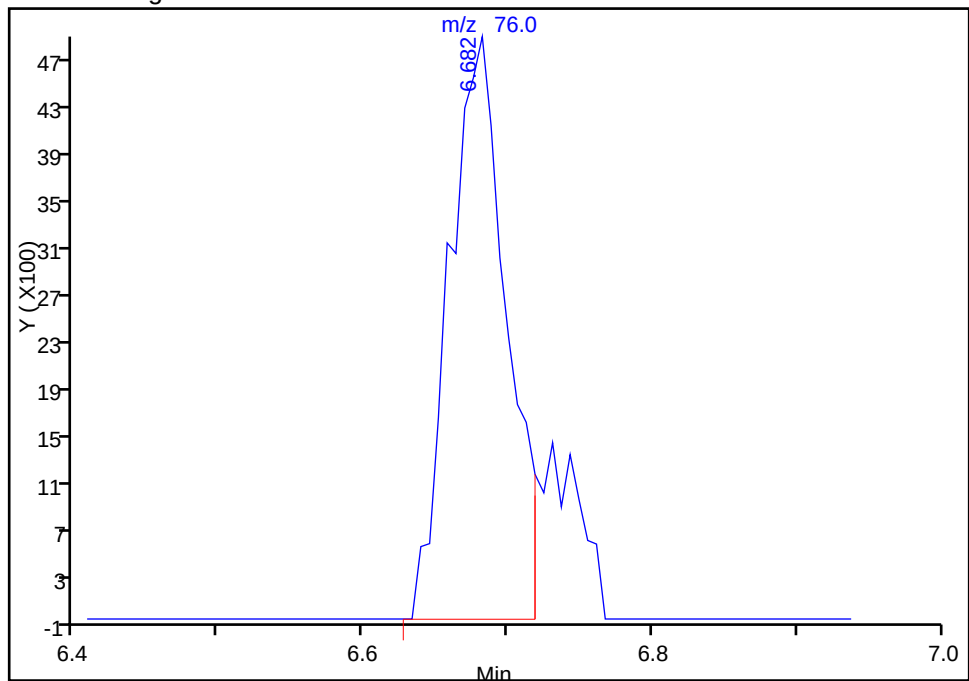
RT: 6.68
Area: 15867
Amount: 0.512645
Amount Units: ug/L

Processing Integration Results



RT: 6.68
Area: 13313
Amount: 0.431949
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 30-Nov-2016 08:59:34

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20729.D

Injection Date: 29-Nov-2016 14:39:30

Instrument ID: HP5973P

Lims ID: IC

Client ID:

Operator ID: RF

ALS Bottle#:

5

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: P-8260H2O

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

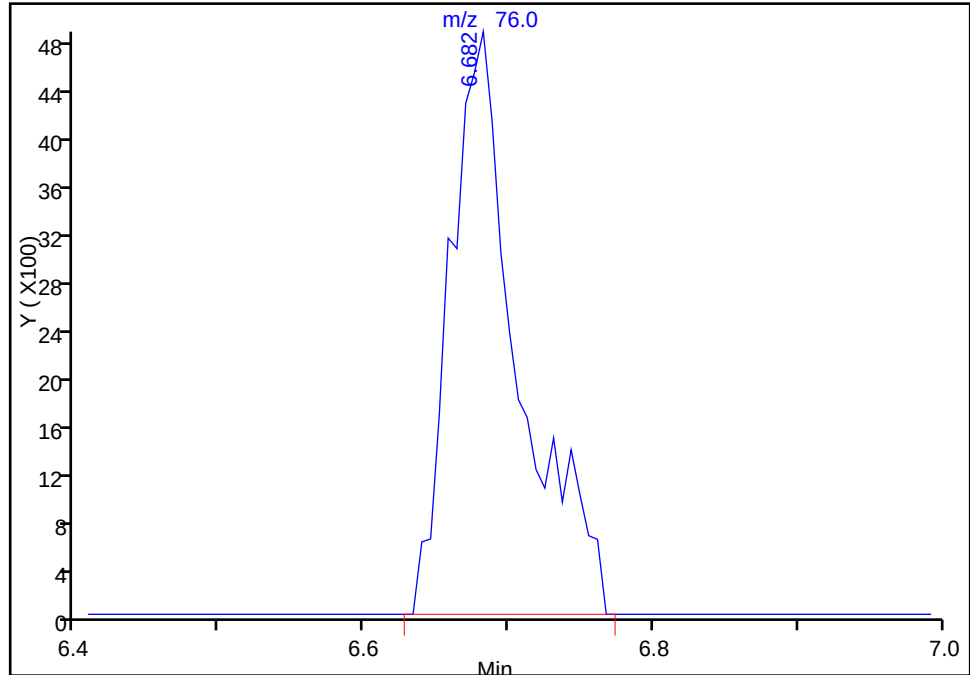
MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

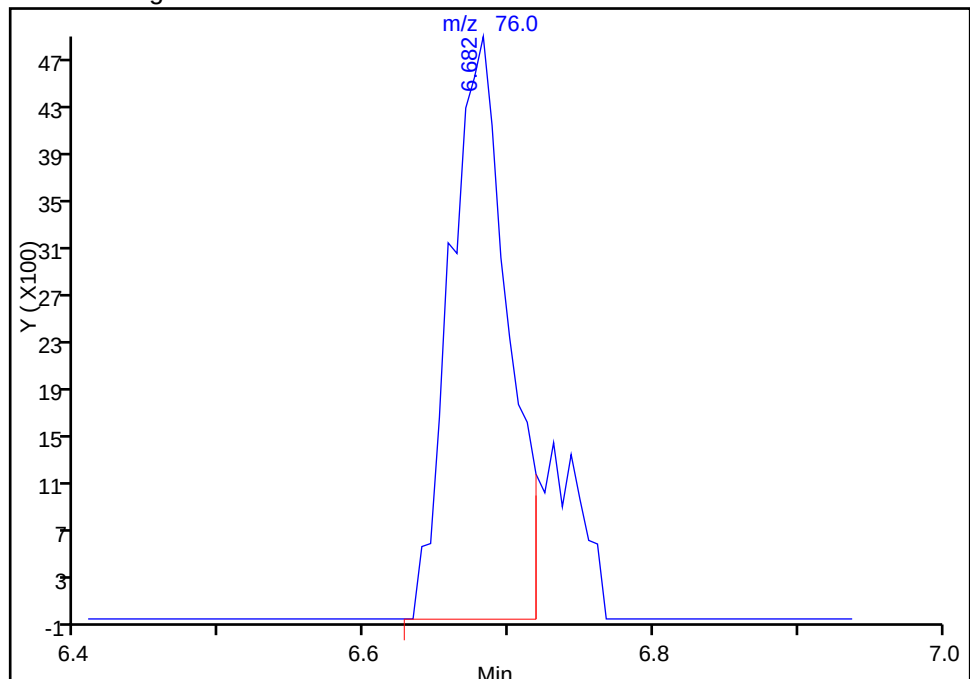
RT: 6.68
Area: 15867
Amount: 0.512645
Amount Units: ug/L

Processing Integration Results



RT: 6.68
Area: 13313
Amount: 0.431949
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 30-Nov-2016 09:00:08

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20729.D

Injection Date: 29-Nov-2016 14:39:30

Instrument ID: HP5973P

Lims ID: IC

Client ID:

Operator ID: RF

ALS Bottle#:

5

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector: MS SCAN

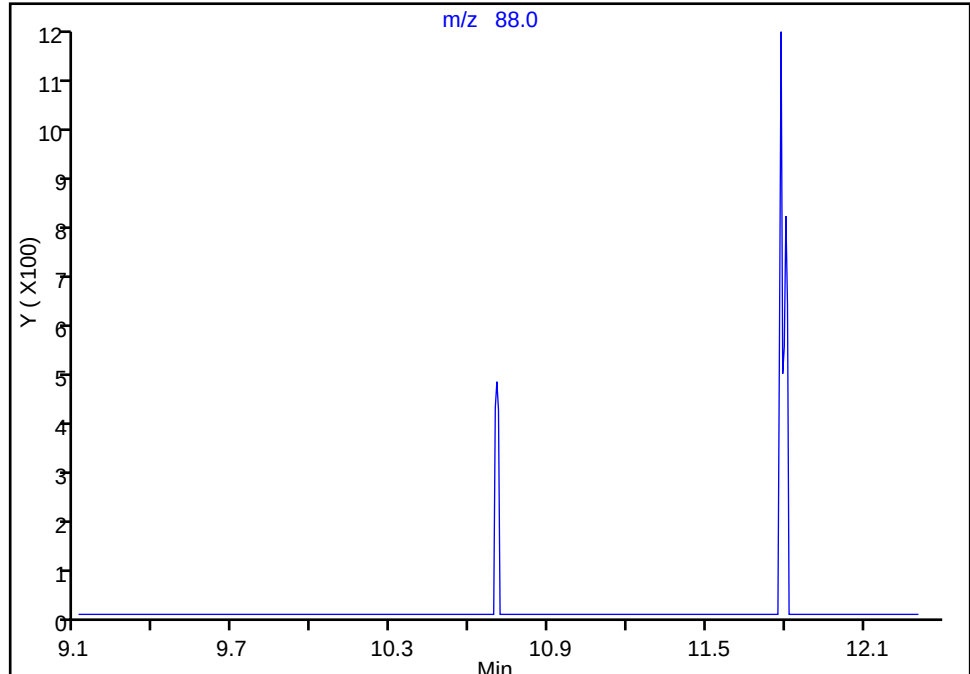
68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

Not Detected

Expected RT: 10.71

Processing Integration Results



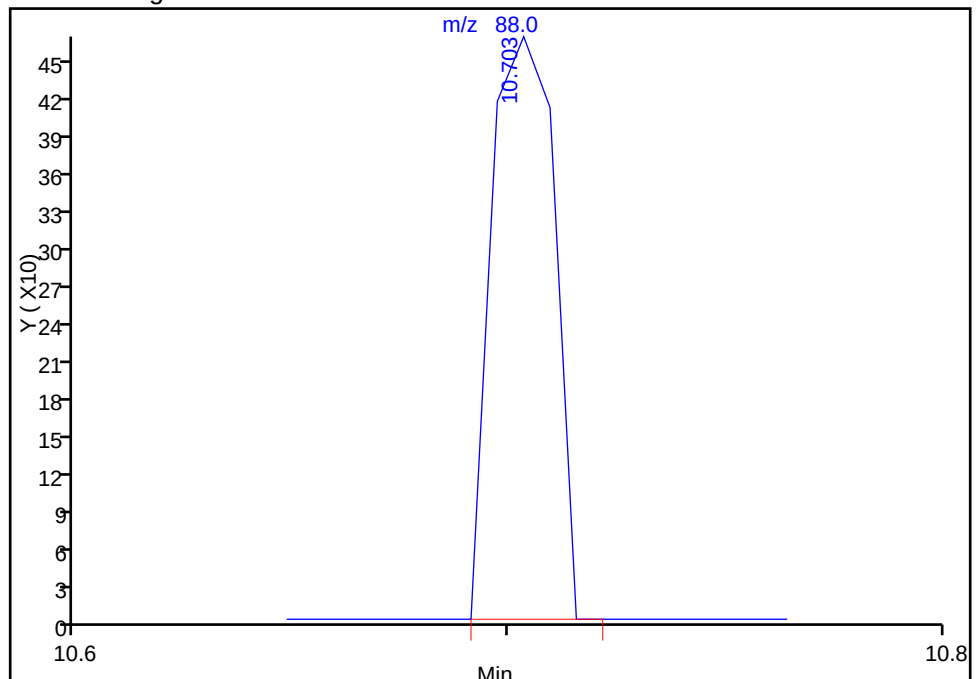
RT: 10.70

Area: 473

Amount: 3.268368

Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 30-Nov-2016 08:38:25

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20729.D

Injection Date: 29-Nov-2016 14:39:30

Instrument ID: HP5973P

Lims ID: IC

Client ID:

Operator ID: RF

ALS Bottle#:

5

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: P-8260H2O

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

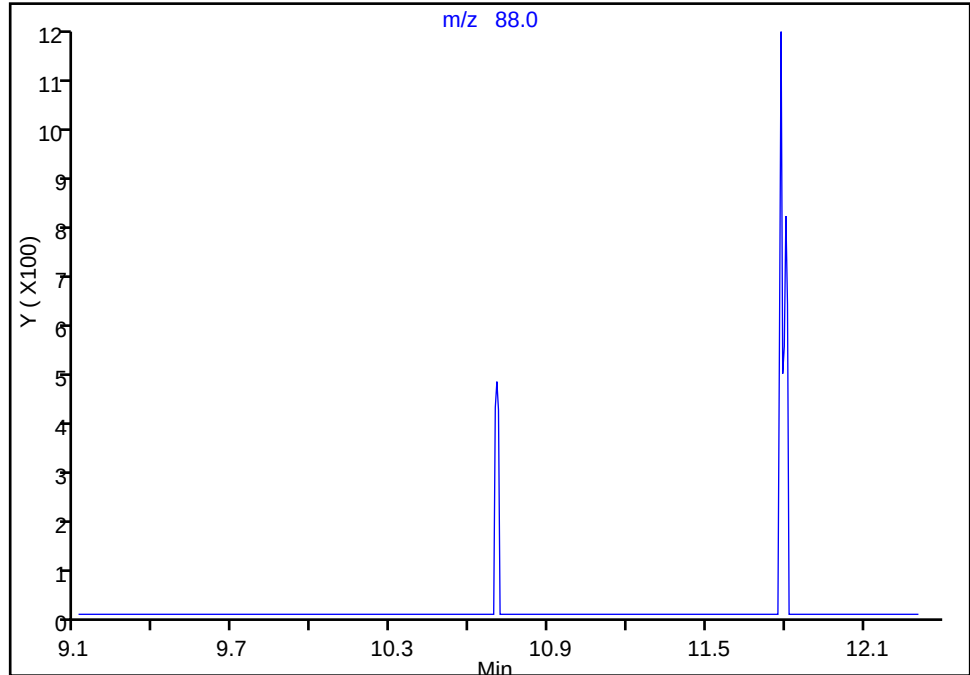
68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

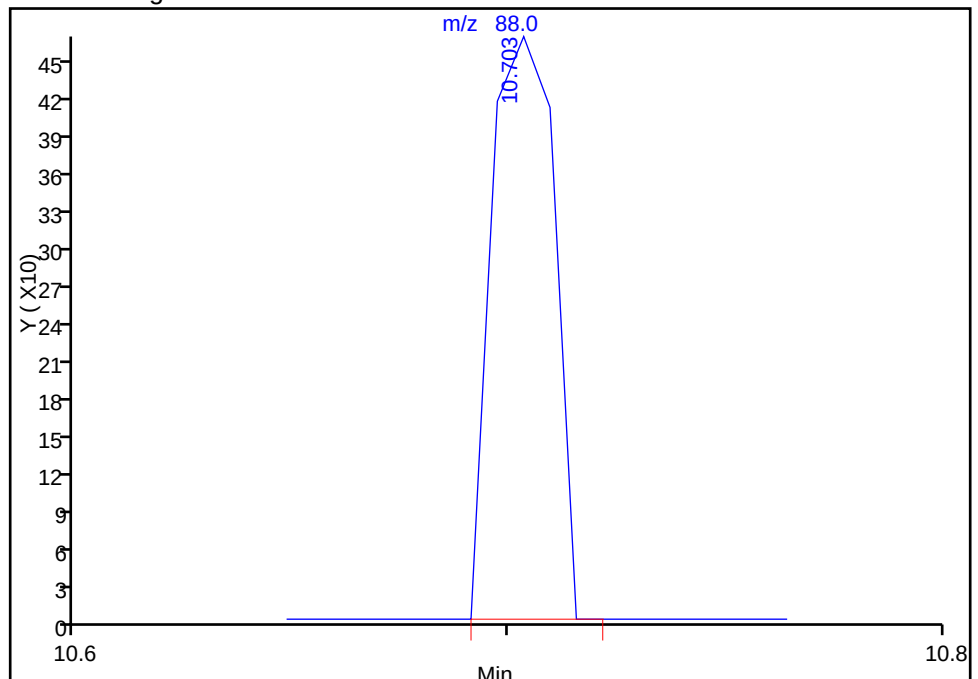
Not Detected

Expected RT: 10.71

Processing Integration Results



Manual Integration Results



RT: 10.70

Area: 473

Amount: 3.268368

Amount Units: ug/L

Reviewer: farrellr, 30-Nov-2016 08:38:25

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20730.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 29-Nov-2016 15:06:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0058712-006
 Operator ID: RF Instrument ID: HP5973P
 Sublist: chrom-P-8260H2O*sub11
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 12:11:48 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: cwiklinc

Date: 29-Nov-2016 16:13:34

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	9.821	9.821	0.000	99	145376	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	85	295304	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.750	0.001	93	386484	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.018	9.012	0.006	94	199565	25.0	24.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.450	0.000	0	114313	25.0	25.2	
\$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	93	645230	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	97	255622	25.0	24.2	
10 Dichlorodifluoromethane	85	3.999	3.975	0.024	91	10403	1.00	0.8949	
11 Chloromethane	50	4.285	4.297	-0.012	96	10950	1.00	1.13	
17 Vinyl chloride	62	4.516	4.522	-0.006	94	7496	1.00	1.01	
144 Butadiene	54	4.547	4.547	0.000	84	8594	1.00	1.12	
12 Bromomethane	94	5.064	5.076	-0.012	77	3098	1.00	1.30	
13 Chloroethane	64	5.210	5.204	0.006	15	3816	1.00	0.6323	
19 Dichlorofluoromethane	67	5.490	5.490	0.000	97	17151	1.00	0.9886	
14 Trichlorofluoromethane	101	5.587	5.587	0.000	31	16304	1.00	0.9572	
20 Ethyl ether	59	5.910	5.903	0.007	97	11455	1.00	1.05	
22 Acrolein	56	6.165	6.153	0.012	98	14160	5.00	4.61	
16 1,1,2-Trichloro-1,2,2-trif	101	6.226	6.238	-0.012	78	12019	1.00	1.03	
25 1,1-Dichloroethene	96	6.293	6.287	0.006	97	12422	1.00	1.14	
24 Acetone	43	6.342	6.329	0.013	99	26278	5.00	5.46	
18 Iodomethane	142	6.554	6.554	0.000	97	22738	1.00	1.02	
27 Carbon disulfide	76	6.682	6.670	0.012	79	32746	1.00	1.02	
30 Methyl acetate	43	6.707	6.700	0.007	96	74935	5.00	5.73	
28 3-Chloro-1-propene	41	6.737	6.737	0.000	85	18850	1.00	1.08	
31 Methylene Chloride	84	6.913	6.907	0.006	98	18497	1.00	0.8416	
33 2-Methyl-2-propanol	59	6.950	6.938	0.012	96	19194	10.0	8.31	
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	87	31474	1.00	1.03	
34 Acrylonitrile	53	7.205	7.199	0.006	99	77969	10.0	11.1	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.000	95	12367	1.00	1.10	
36 Hexane	57	7.461	7.467	-0.006	94	18045	1.00	1.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.710	7.704	0.006	97	50102	2.00	1.87	
40 1,1-Dichloroethane	63	7.753	7.759	-0.006	95	22864	1.00	1.08	
44 2-Butanone (MEK)	43	8.404	8.398	0.006	95	42417	5.00	5.19	
45 2,2-Dichloropropane	77	8.453	8.452	0.001	63	14857	1.00	1.02	
43 cis-1,2-Dichloroethene	96	8.459	8.452	0.007	82	13620	1.00	1.11	
50 Chlorobromomethane	128	8.775	8.769	0.006	97	6913	1.00	1.01	
51 Tetrahydrofuran	42	8.811	8.799	0.012	72	11830	2.00	2.11	
49 Chloroform	83	8.818	8.805	0.013	93	22260	1.00	1.13	
52 1,1,1-Trichloroethane	97	9.073	9.067	0.006	98	18876	1.00	1.10	
54 Cyclohexane	56	9.140	9.134	0.006	90	23173	1.00	1.05	
53 Isobutyl alcohol	43	9.225	9.219	0.006	59	15497	25.0	19.6	
56 1,1-Dichloropropene	75	9.237	9.243	-0.006	91	13606	1.00	1.03	
55 Carbon tetrachloride	117	9.268	9.274	-0.006	96	15635	1.00	1.00	
57 Benzene	78	9.529	9.523	0.006	96	42935	1.00	1.13	
60 1,2-Dichloroethane	62	9.554	9.547	0.007	96	19142	1.00	1.11	
59 n-Heptane	43	9.651	9.645	0.006	93	15344	1.00	1.13	
62 Trichloroethene	95	10.278	10.277	0.001	94	11224	1.00	0.9874	
64 Methylcyclohexane	83	10.515	10.509	0.006	92	16954	1.00	1.01	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	94	11814	1.00	1.06	
68 1,4-Dioxane	88	10.722	10.709	0.013	1	2190	20.0	15.2	M
69 Dibromomethane	93	10.770	10.776	-0.006	90	7265	1.00	1.01	
70 Dichlorobromomethane	83	10.922	10.910	0.012	95	12366	1.00	0.9310	
71 2-Chloroethyl vinyl ether	63	11.178	11.172	0.006	92	6334	1.00	0.8176	
73 cis-1,3-Dichloropropene	75	11.452	11.445	0.007	92	12696	1.00	0.8599	
75 4-Methyl-2-pentanone (MIBK)	43	11.561	11.555	0.006	97	75982	5.00	5.01	
76 Toluene	92	11.896	11.890	0.006	98	25111	1.00	1.10	
77 Ethyl methacrylate	69	12.121	12.121	0.000	88	8433	1.00	0.9860	
78 trans-1,3-Dichloropropene	75	12.145	12.151	-0.006	96	12424	1.00	0.9248	
79 1,1,2-Trichloroethane	83	12.437	12.431	0.006	88	8388	1.00	1.04	
80 Tetrachloroethene	166	12.638	12.638	0.000	46	13275	1.00	1.05	
83 2-Hexanone	43	12.650	12.644	0.006	95	50388	5.00	4.96	
82 1,3-Dichloropropane	76	12.668	12.668	0.000	98	16500	1.00	1.11	
81 Chlorodibromomethane	129	13.009	13.015	-0.006	89	8818	1.00	0.8047	
85 Ethylene Dibromide	107	13.210	13.210	0.000	97	10581	1.00	0.9360	
87 Chlorobenzene	112	13.806	13.806	0.000	97	33701	1.00	1.13	
89 Ethylbenzene	91	13.867	13.867	0.000	97	43967	1.00	1.06	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	49	11351	1.00	0.9816	
90 m-Xylene & p-Xylene	106	14.013	14.007	0.006	0	17837	1.00	0.9792	
93 o-Xylene	106	14.560	14.560	0.000	95	17474	1.00	0.9554	
94 Styrene	104	14.579	14.579	0.000	91	22997	1.00	0.8809	
92 Bromoform	173	14.938	14.931	0.007	92	6248	1.00	0.7458	
95 Isopropylbenzene	105	15.005	15.004	0.001	96	38692	1.00	0.8984	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.430	-0.006	96	16215	1.00	1.06	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	33	3883	1.00	0.8227	
101 1,2,3-Trichloropropane	110	15.516	15.515	0.001	63	5206	1.00	1.08	
100 Bromobenzene	156	15.528	15.521	0.007	89	16738	1.00	1.11	
99 N-Propylbenzene	91	15.534	15.534	0.000	99	55302	1.00	1.10	
103 2-Chlorotoluene	126	15.722	15.722	0.000	96	12280	1.00	0.9836	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	97	37235	1.00	1.02	
105 4-Chlorotoluene	126	15.856	15.850	0.006	96	12603	1.00	0.9853	
106 tert-Butylbenzene	134	16.166	16.166	0.000	92	8251	1.00	0.8858	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	96	36497	1.00	0.9513	

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	16.440	16.440	0.000	94	44266	1.00	0.9535	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	96	39875	1.00	0.8966	
110 1,3-Dichlorobenzene	146	16.678	16.677	0.001	97	29360	1.00	1.11	
111 1,4-Dichlorobenzene	146	16.787	16.781	0.006	92	30199	1.00	1.11	
115 n-Butylbenzene	91	17.109	17.103	0.006	97	35773	1.00	1.01	
116 1,2-Dichlorobenzene	146	17.268	17.267	0.001	97	28026	1.00	1.04	
117 1,2-Dibromo-3-Chloropropan	75	18.247	18.241	0.006	85	3119	1.00	0.9350	
119 1,2,4-Trichlorobenzene	180	19.312	19.318	-0.006	94	22052	1.00	0.99	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	93	9087	1.00	1.00	
121 Naphthalene	128	19.713	19.713	0.000	97	56520	1.00	0.9323	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	94	22044	1.00	1.02	
S 125 Total BTEX	1				0			5.23	
S 126 Xylenes, Total	1				0			1.93	
S 123 1,2-Dichloroethene, Total	1				0			2.21	
S 124 1,3-Dichloropropene, Total	1				0			1.78	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00087

Amount Added: 1.00

Units: uL

GAS CORP mix_00192

Amount Added: 1.00

Units: uL

P 8260 IS_00184

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00201

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20730.D

Injection Date: 29-Nov-2016 15:06:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: IC 2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

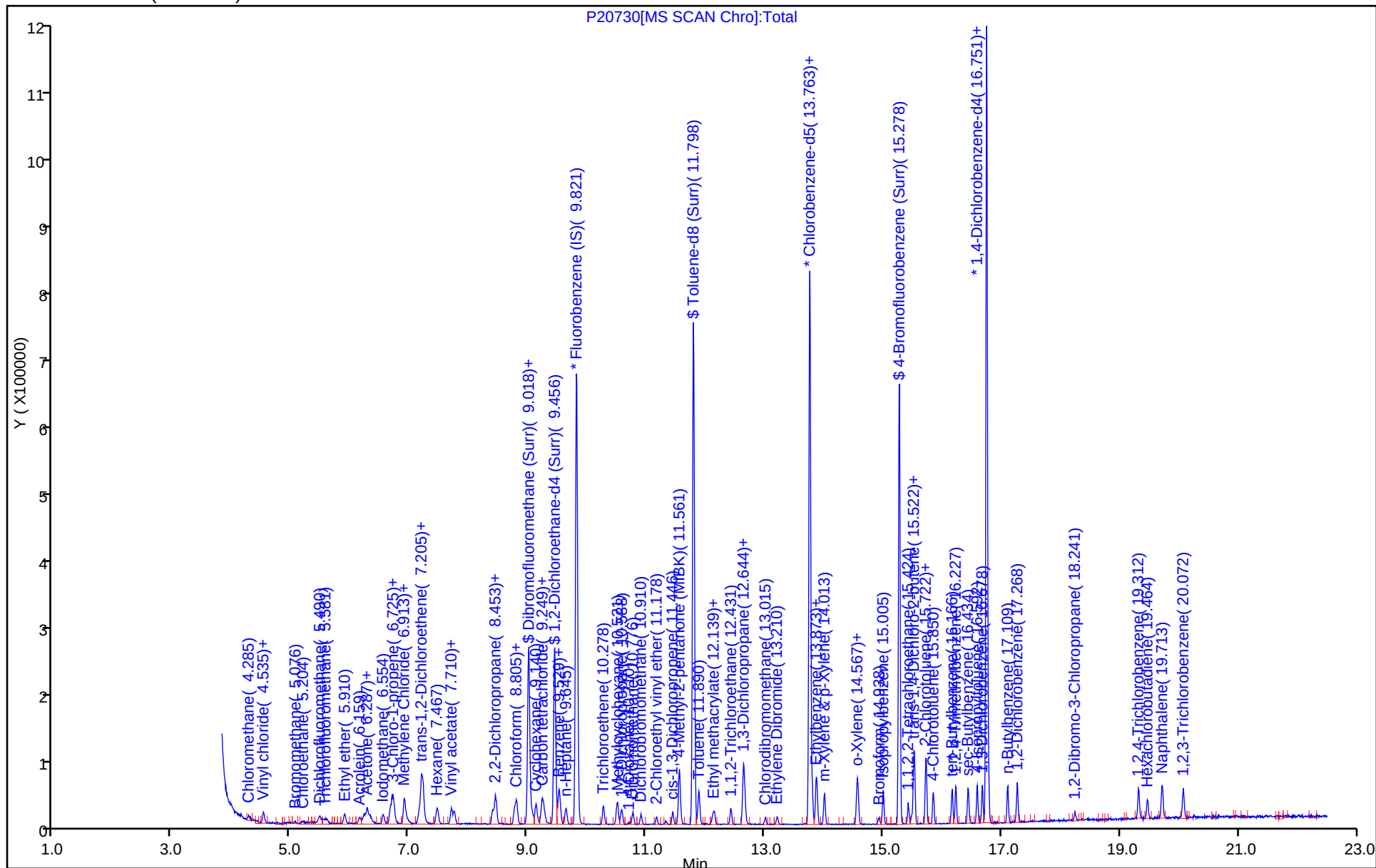
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20730.D

Injection Date: 29-Nov-2016 15:06:30

Instrument ID: HP5973P

Lims ID: IC 2

Client ID:

Operator ID: RF

ALS Bottle#:

6

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: P-8260H2O

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

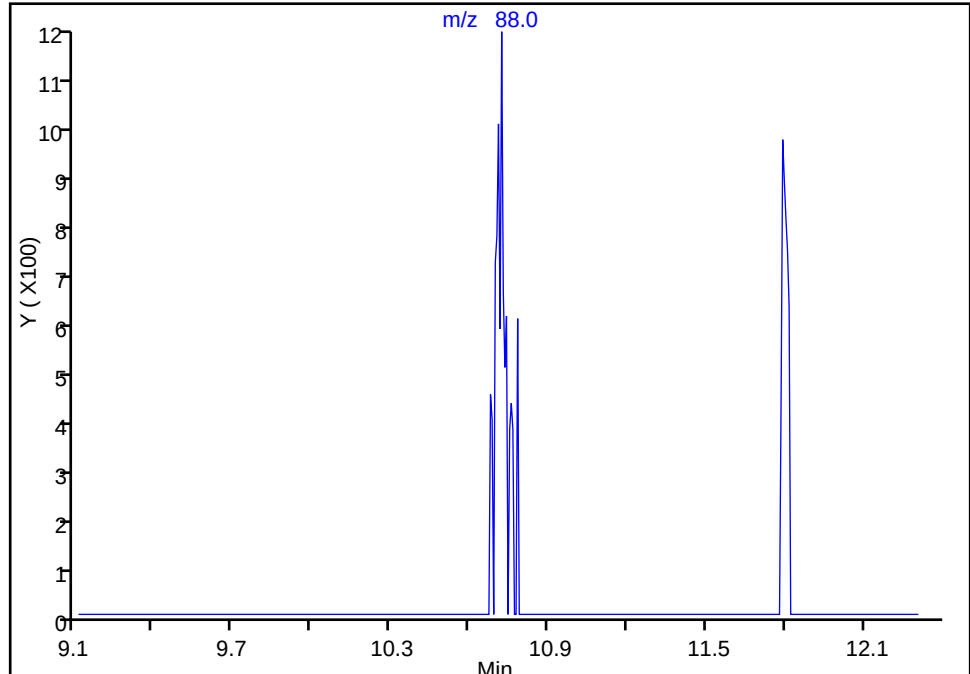
68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

Not Detected

Expected RT: 10.71

Processing Integration Results



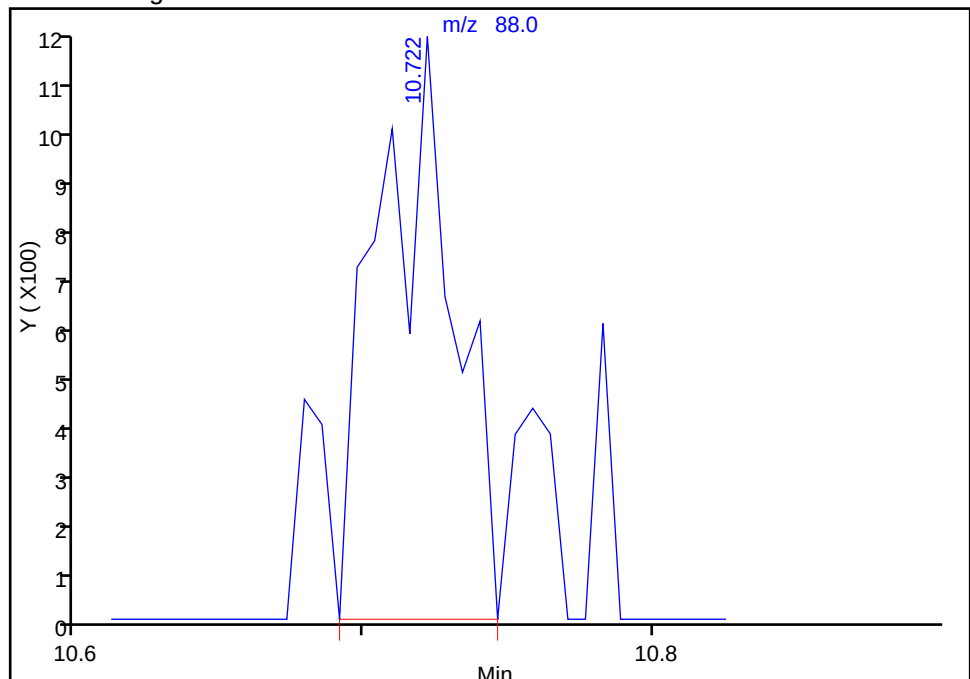
RT: 10.72

Area: 2190

Amount: 15.192209

Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 30-Nov-2016 08:39:55

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20730.D

Injection Date: 29-Nov-2016 15:06:30

Instrument ID: HP5973P

Lims ID: IC 2

Client ID:

Operator ID: RF

ALS Bottle#:

6

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: P-8260H2O

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

Detector

MS SCAN

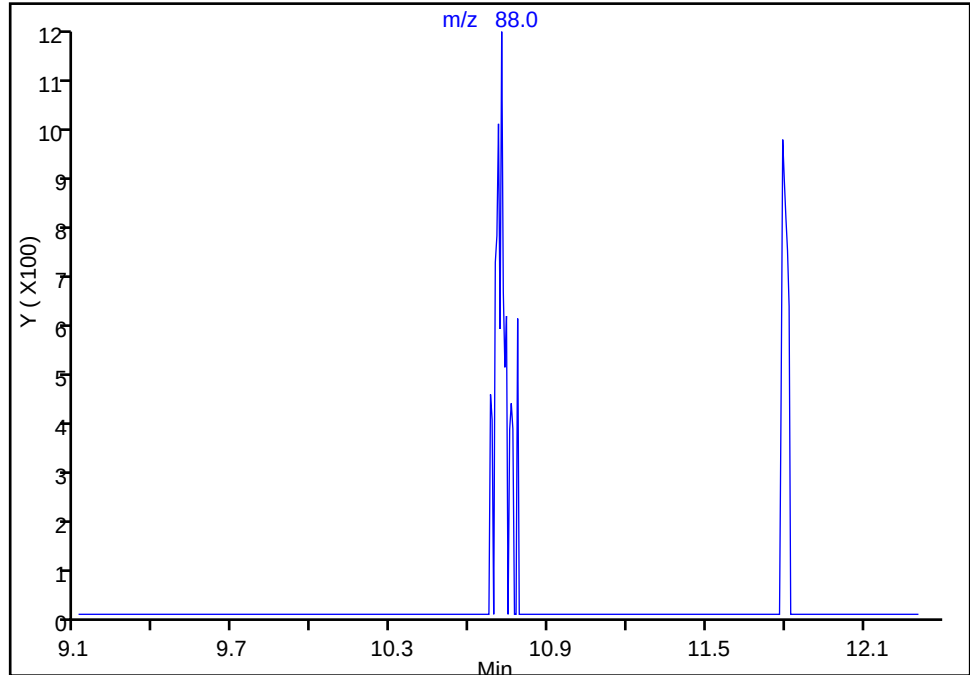
68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

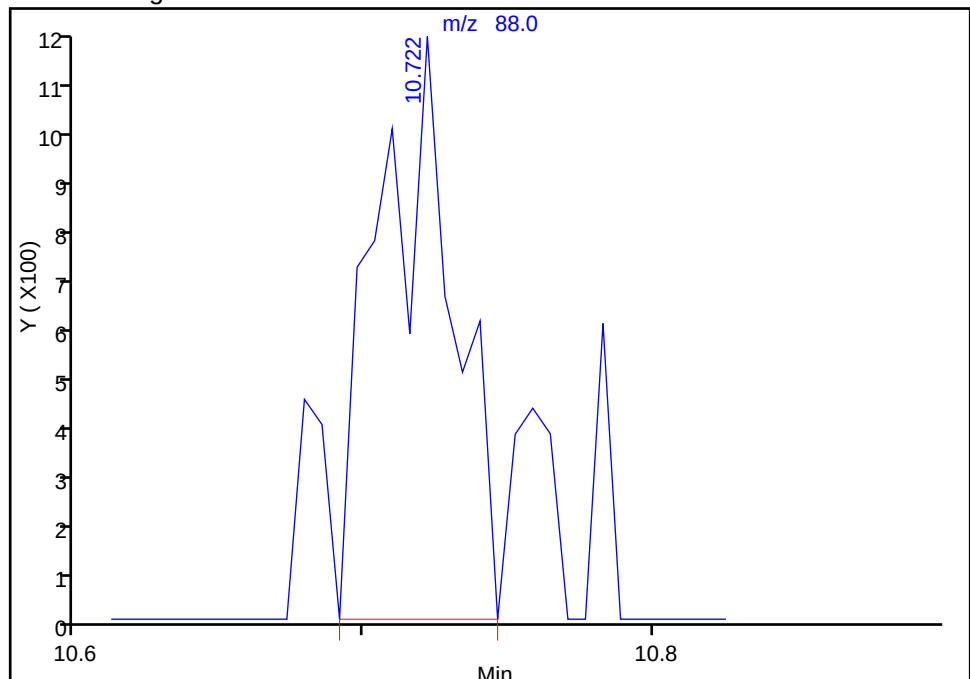
Not Detected

Expected RT: 10.71

Processing Integration Results



Manual Integration Results



RT: 10.72

Area: 2190

Amount: 15.192209

Amount Units: ug/L

Reviewer: farrellr, 30-Nov-2016 08:39:55

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20731.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Nov-2016 15:33:30 ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0058712-007
 Operator ID: RF Instrument ID: HP5973P
 Sublist: chrom-P-8260H2O*sub11
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 12:11:50 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: cwiklinc

Date: 29-Nov-2016 16:13:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	99	145444	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	85	300798	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	92	407201	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.012	0.000	95	201183	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.444	9.450	-0.006	0	112695	25.0	24.9	
\$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	93	655093	25.0	25.1	
\$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	98	268379	25.0	24.9	
10 Dichlorodifluoromethane	85	3.981	3.975	0.006	98	60690	5.00	5.22	
11 Chloromethane	50	4.291	4.297	-0.006	99	49032	5.00	5.05	
17 Vinyl chloride	62	4.529	4.522	0.007	86	39703	5.00	5.35	
144 Butadiene	54	4.529	4.547	-0.018	88	39830	5.00	5.17	
12 Bromomethane	94	5.058	5.076	-0.018	89	19082	5.00	3.60	
13 Chloroethane	64	5.198	5.204	-0.006	98	35374	5.00	5.86	
19 Dichlorofluoromethane	67	5.490	5.490	0.000	97	92511	5.00	5.33	
14 Trichlorofluoromethane	101	5.599	5.587	0.012	97	86317	5.00	5.07	
20 Ethyl ether	59	5.897	5.903	-0.006	97	52856	5.00	4.84	
22 Acrolein	56	6.153	6.153	0.000	100	74528	25.0	24.2	
16 1,1,2-Trichloro-1,2,2-trif	101	6.244	6.238	0.006	88	60068	5.00	5.15	
25 1,1-Dichloroethene	96	6.287	6.287	0.000	95	54751	5.00	5.03	
24 Acetone	43	6.335	6.329	0.006	100	122761	25.0	25.5	
18 Iodomethane	142	6.560	6.554	0.006	98	109964	5.00	4.93	
27 Carbon disulfide	76	6.676	6.670	0.006	100	169368	5.00	5.25	M
30 Methyl acetate	43	6.706	6.700	0.006	99	348306	25.0	26.6	
28 3-Chloro-1-propene	41	6.743	6.737	0.006	83	89025	5.00	5.11	
31 Methylene Chloride	84	6.913	6.907	0.006	99	66666	5.00	5.35	
33 2-Methyl-2-propanol	59	6.944	6.938	0.006	96	114335	50.0	49.5	
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	99	150522	5.00	4.93	
34 Acrylonitrile	53	7.205	7.199	0.006	100	388626	50.0	55.1	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.000	97	59671	5.00	5.29	
36 Hexane	57	7.473	7.467	0.006	92	84384	5.00	5.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.704	7.704	0.000	97	271887	10.0	10.1	
40 1,1-Dichloroethane	63	7.753	7.759	-0.006	97	109577	5.00	5.19	
44 2-Butanone (MEK)	43	8.398	8.398	0.000	99	201887	25.0	24.7	
45 2,2-Dichloropropane	77	8.452	8.452	0.000	61	75938	5.00	5.21	
43 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	83	63187	5.00	5.15	
50 Chlorobromomethane	128	8.769	8.769	0.000	97	34398	5.00	5.05	
51 Tetrahydrofuran	42	8.799	8.799	0.000	79	57356	10.0	10.2	
49 Chloroform	83	8.811	8.805	0.006	94	98313	5.00	4.99	
52 1,1,1-Trichloroethane	97	9.067	9.067	0.000	99	85542	5.00	5.00	
54 Cyclohexane	56	9.134	9.134	0.000	90	107656	5.00	4.86	
53 Isobutyl alcohol	43	9.225	9.219	0.006	80	99290	125.0	125.4	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	93	70694	5.00	5.35	
55 Carbon tetrachloride	117	9.274	9.274	0.000	97	79377	5.00	5.07	
57 Benzene	78	9.523	9.523	0.000	97	198457	5.00	5.22	
60 1,2-Dichloroethane	62	9.547	9.547	0.000	97	87179	5.00	5.06	
59 n-Heptane	43	9.639	9.645	-0.006	94	70528	5.00	5.19	
62 Trichloroethene	95	10.278	10.277	0.001	96	58819	5.00	5.17	
64 Methylcyclohexane	83	10.515	10.509	0.006	94	83042	5.00	4.93	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	96	56620	5.00	5.06	
68 1,4-Dioxane	88	10.709	10.709	0.000	95	17219	100.0	117.3	
69 Dibromomethane	93	10.770	10.776	-0.006	92	36450	5.00	5.05	
70 Dichlorobromomethane	83	10.910	10.910	0.000	97	62814	5.00	4.73	
71 2-Chloroethyl vinyl ether	63	11.178	11.172	0.006	92	34980	5.00	4.51	
73 cis-1,3-Dichloropropene	75	11.446	11.445	0.001	93	71322	5.00	4.83	
75 4-Methyl-2-pentanone (MIBK)	43	11.555	11.555	0.000	97	415691	25.0	26.9	
76 Toluene	92	11.890	11.890	0.000	98	121217	5.00	5.22	
77 Ethyl methacrylate	69	12.121	12.121	0.000	91	52766	5.00	4.48	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	95	67562	5.00	4.94	
79 1,1,2-Trichloroethane	83	12.431	12.431	0.000	93	41333	5.00	5.05	
80 Tetrachloroethene	166	12.632	12.638	-0.006	97	67371	5.00	5.25	
83 2-Hexanone	43	12.644	12.644	0.000	96	281120	25.0	27.2	
82 1,3-Dichloropropane	76	12.674	12.668	0.006	98	81034	5.00	5.36	
81 Chlorodibromomethane	129	13.015	13.015	0.000	90	49926	5.00	4.47	
85 Ethylene Dibromide	107	13.204	13.210	-0.006	98	57330	5.00	4.98	
87 Chlorobenzene	112	13.800	13.806	-0.006	97	153933	5.00	5.09	
89 Ethylbenzene	91	13.867	13.867	0.000	98	222547	5.00	5.28	
88 1,1,1,2-Tetrachloroethane	131	13.891	13.885	0.006	91	58861	5.00	5.00	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	94899	5.00	5.11	
93 o-Xylene	106	14.560	14.560	0.000	97	93605	5.00	5.02	
94 Styrene	104	14.579	14.579	0.000	96	130637	5.00	4.91	
92 Bromoform	173	14.931	14.931	0.000	98	35418	5.00	4.15	
95 Isopropylbenzene	105	15.004	15.004	0.000	96	224909	5.00	4.96	
97 1,1,2,2-Tetrachloroethane	83	15.430	15.430	0.000	97	79205	5.00	4.90	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	80	22033	5.00	4.43	
101 1,2,3-Trichloropropane	110	15.515	15.515	0.000	63	26287	5.00	5.18	
100 Bromobenzene	156	15.522	15.521	0.001	89	80394	5.00	5.07	
99 N-Propylbenzene	91	15.534	15.534	0.000	98	273727	5.00	5.16	
103 2-Chlorotoluene	126	15.716	15.722	-0.006	96	69140	5.00	5.26	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	96	195676	5.00	5.07	
105 4-Chlorotoluene	126	15.850	15.850	0.000	96	66483	5.00	4.93	
106 tert-Butylbenzene	134	16.173	16.166	0.006	92	47627	5.00	4.85	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	96	202860	5.00	5.02	

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	16.434	16.440	-0.006	94	244712	5.00	5.00	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	230270	5.00	4.91	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	98	139762	5.00	5.00	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	97	147045	5.00	5.13	
115 n-Butylbenzene	91	17.103	17.103	0.000	97	183199	5.00	4.92	
116 1,2-Dichlorobenzene	146	17.268	17.267	0.001	99	140802	5.00	4.96	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	85	14799	5.00	4.21	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	94	111858	5.00	4.77	
120 Hexachlorobutadiene	225	19.464	19.470	-0.006	95	45726	5.00	4.76	
121 Naphthalene	128	19.713	19.713	0.000	97	306355	5.00	4.80	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	95	106060	5.00	4.68	
S 125 Total BTEX	1				0			25.9	
S 126 Xylenes, Total	1				0			10.1	
S 123 1,2-Dichloroethene, Total	1				0			10.4	
S 124 1,3-Dichloropropene, Total	1				0			9.77	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00087

Amount Added: 5.00

Units: uL

GAS CORP mix_00192

Amount Added: 5.00

Units: uL

P 8260 IS_00184

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00201

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973P\\20161129-58712.b\\P20731.D

Injection Date: 29-Nov-2016 15:33:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: IC 3

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

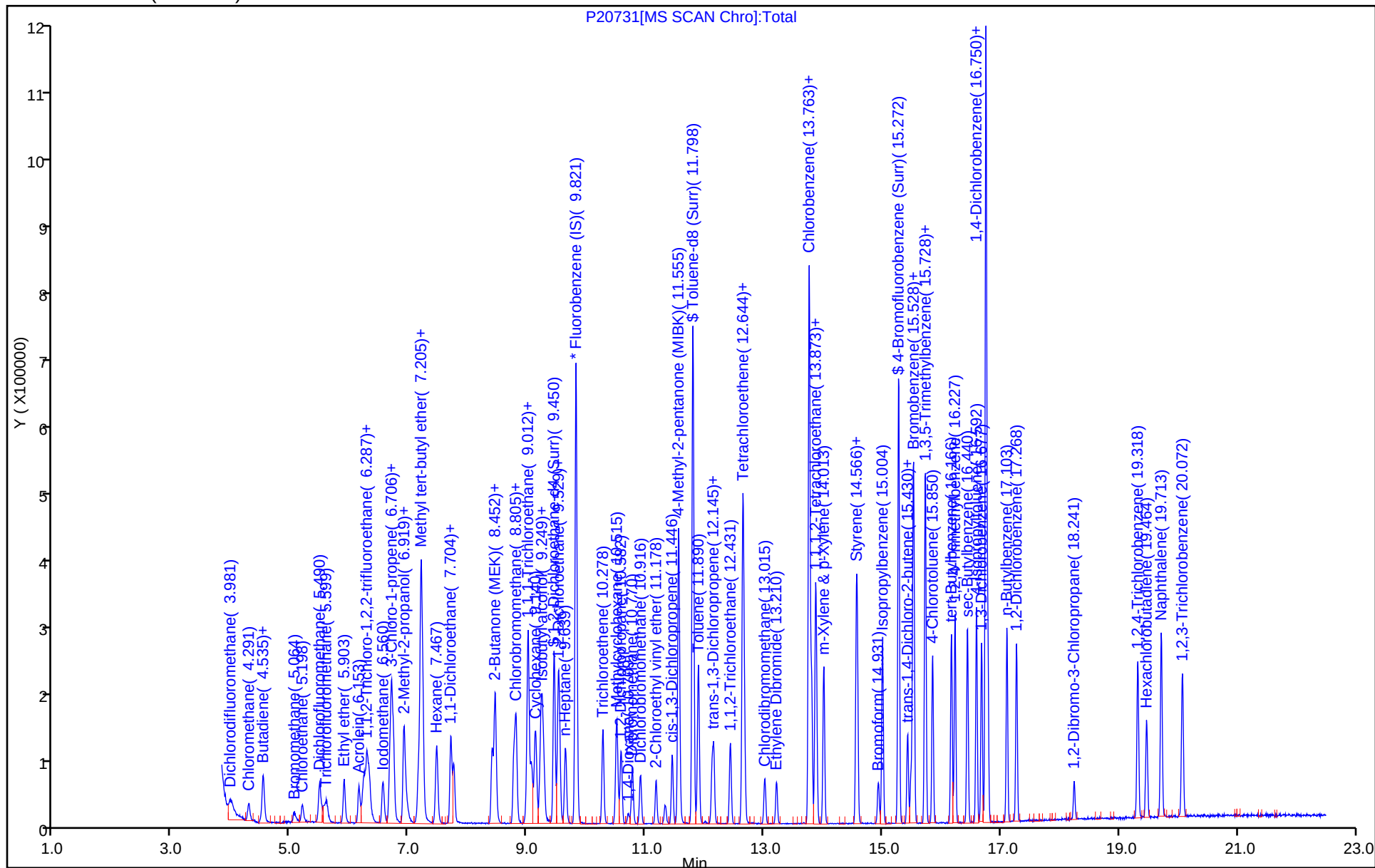
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20731.D

Injection Date: 29-Nov-2016 15:33:30

Instrument ID: HP5973P

Lims ID: IC 3

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)

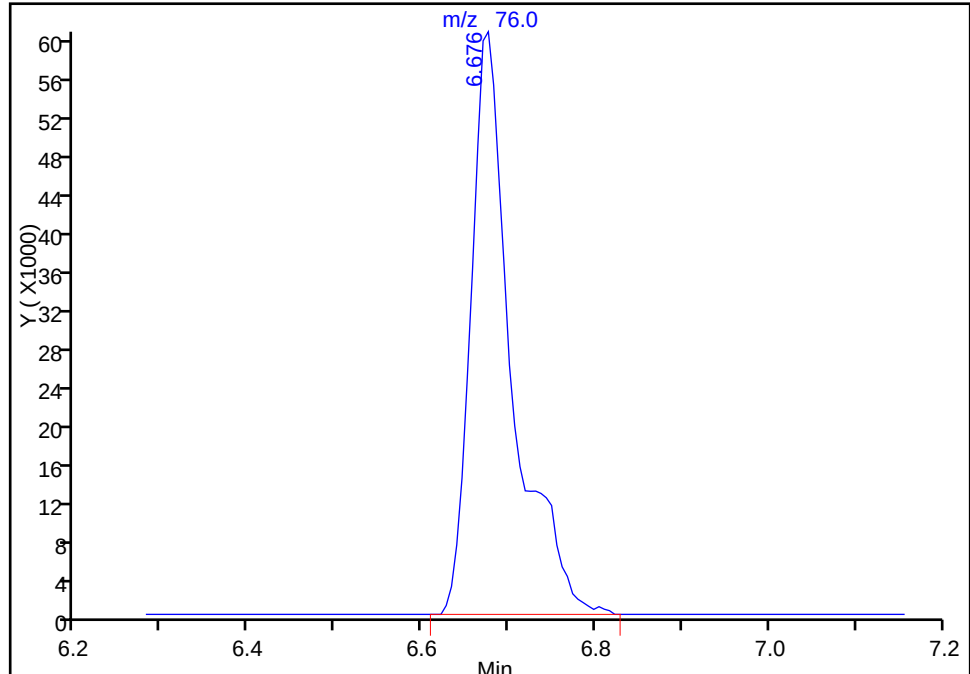
Detector: MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

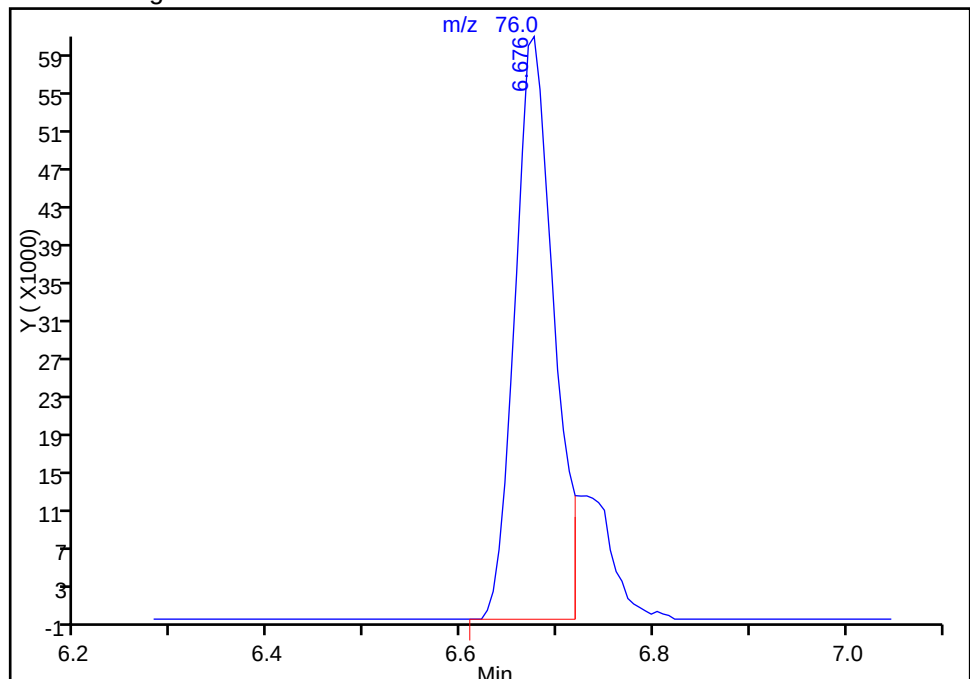
RT: 6.68
Area: 200514
Amount: 6.026460
Amount Units: ug/L

Processing Integration Results



RT: 6.68
Area: 169368
Amount: 5.252391
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 30-Nov-2016 08:58:08

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20732.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 29-Nov-2016 16:01:30 ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 4
 Misc. Info.: 480-0058712-008
 Operator ID: RF Instrument ID: HP5973P
 Sublist: chrom-P-8260H2O*sub11
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 12:11:52 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: farrellr

Date: 30-Nov-2016 08:42:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	99	150001	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	84	305312	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	93	406826	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.018	9.018	0.000	96	206174	25.0	24.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.450	0.000	0	119661	25.0	25.6	
\$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	93	658897	25.0	24.8	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	97	274511	25.0	25.1	
10 Dichlorodifluoromethane	85	4.005	4.005	0.000	98	122429	10.0	10.2	
11 Chloromethane	50	4.303	4.303	0.000	99	95071	10.0	9.49	
17 Vinyl chloride	62	4.535	4.535	0.000	98	73439	10.0	9.59	
144 Butadiene	54	4.553	4.553	0.000	85	78905	10.0	9.94	
12 Bromomethane	94	5.070	5.070	0.000	90	70977	10.0	10.8	
13 Chloroethane	64	5.198	5.198	0.000	98	65745	10.0	10.6	
19 Dichlorofluoromethane	67	5.496	5.496	0.000	97	164692	10.0	9.20	
14 Trichlorofluoromethane	101	5.617	5.617	0.000	97	170583	10.0	9.71	
20 Ethyl ether	59	5.909	5.909	0.000	97	111705	10.0	9.91	
22 Acrolein	56	6.159	6.159	0.000	98	159571	50.0	50.3	
16 1,1,2-Trichloro-1,2,2-trif	101	6.250	6.250	0.000	76	118468	10.0	9.85	
25 1,1-Dichloroethene	96	6.299	6.299	0.000	96	109269	10.0	9.74	
24 Acetone	43	6.329	6.329	0.000	100	254684	50.0	51.2	
18 Iodomethane	142	6.567	6.567	0.000	99	222639	10.0	9.67	
27 Carbon disulfide	76	6.682	6.682	0.000	100	328207	10.0	9.87	M
30 Methyl acetate	43	6.706	6.706	0.000	99	711436	50.0	52.7	
28 3-Chloro-1-propene	41	6.743	6.743	0.000	83	185672	10.0	10.3	
31 Methylene Chloride	84	6.913	6.913	0.000	98	125494	10.0	10.5	
33 2-Methyl-2-propanol	59	6.938	6.938	0.000	98	235483	100.0	98.9	
32 Methyl tert-butyl ether	73	7.175	7.175	0.000	98	312671	10.0	9.93	
34 Acrylonitrile	53	7.205	7.205	0.000	100	776750	100.0	106.7	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.000	96	119533	10.0	10.3	
36 Hexane	57	7.467	7.467	0.000	91	170701	10.0	9.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.710	7.710	0.000	97	578521	20.0	20.9	
40 1,1-Dichloroethane	63	7.753	7.753	0.000	97	219621	10.0	10.1	
44 2-Butanone (MEK)	43	8.404	8.404	0.000	99	433337	50.0	51.4	
45 2,2-Dichloropropane	77	8.459	8.459	0.000	53	148898	10.0	9.91	
43 cis-1,2-Dichloroethene	96	8.459	8.459	0.000	83	127359	10.0	10.1	
50 Chlorobromomethane	128	8.769	8.769	0.000	96	69780	10.0	9.93	
51 Tetrahydrofuran	42	8.805	8.805	0.000	79	118607	20.0	20.5	
49 Chloroform	83	8.811	8.811	0.000	95	200688	10.0	9.88	
52 1,1,1-Trichloroethane	97	9.073	9.073	0.000	98	173523	10.0	9.84	
54 Cyclohexane	56	9.140	9.140	0.000	90	218294	10.0	9.55	
53 Isobutyl alcohol	43	9.219	9.219	0.000	96	183671	250.0	225.0	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	95	145833	10.0	10.7	
55 Carbon tetrachloride	117	9.274	9.274	0.000	95	157010	10.0	9.73	
57 Benzene	78	9.523	9.523	0.000	97	401020	10.0	10.2	
60 1,2-Dichloroethane	62	9.547	9.547	0.000	97	175659	10.0	9.89	
59 n-Heptane	43	9.645	9.645	0.000	94	138114	10.0	9.85	
62 Trichloroethene	95	10.278	10.278	0.000	94	114163	10.0	9.73	
64 Methylcyclohexane	83	10.509	10.509	0.000	93	169800	10.0	9.77	
63 1,2-Dichloropropane	63	10.588	10.588	0.000	98	113591	10.0	9.85	
68 1,4-Dioxane	88	10.709	10.709	0.000	96	30641	200.0	205.6	
69 Dibromomethane	93	10.776	10.776	0.000	90	72910	10.0	9.79	
70 Dichlorobromomethane	83	10.910	10.910	0.000	99	134894	10.0	9.84	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	91	78316	10.0	9.80	
73 cis-1,3-Dichloropropene	75	11.446	11.446	0.000	93	147111	10.0	9.66	
75 4-Methyl-2-pentanone (MIBK)	43	11.555	11.555	0.000	96	868759	50.0	55.4	
76 Toluene	92	11.890	11.890	0.000	98	238778	10.0	10.1	
77 Ethyl methacrylate	69	12.121	12.121	0.000	92	117258	10.0	9.43	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	93	140892	10.0	10.1	
79 1,1,2-Trichloroethane	83	12.431	12.431	0.000	93	83765	10.0	10.1	
80 Tetrachloroethene	166	12.638	12.638	0.000	97	134553	10.0	10.3	
83 2-Hexanone	43	12.644	12.644	0.000	96	594828	50.0	56.6	
82 1,3-Dichloropropane	76	12.668	12.668	0.000	96	165085	10.0	10.8	
81 Chlorodibromomethane	129	13.015	13.015	0.000	91	108754	10.0	9.60	
85 Ethylene Dibromide	107	13.210	13.210	0.000	97	118583	10.0	10.1	
87 Chlorobenzene	112	13.806	13.806	0.000	97	308128	10.0	10.0	
89 Ethylbenzene	91	13.873	13.873	0.000	98	442974	10.0	10.4	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	94	119279	10.0	9.98	
90 m-Xylene & p-Xylene	106	14.013	14.013	0.000	0	191829	10.0	10.2	
93 o-Xylene	106	14.560	14.560	0.000	96	196190	10.0	10.4	
94 Styrene	104	14.579	14.579	0.000	95	281927	10.0	10.4	
92 Bromoform	173	14.931	14.931	0.000	99	80760	10.0	9.32	
95 Isopropylbenzene	105	15.004	15.004	0.000	95	466282	10.0	10.3	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	97	158915	10.0	9.85	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	85	48759	10.0	9.81	
101 1,2,3-Trichloropropane	110	15.522	15.522	0.000	65	50321	10.0	9.93	
100 Bromobenzene	156	15.522	15.522	0.000	88	156701	10.0	9.89	
99 N-Propylbenzene	91	15.534	15.534	0.000	97	542644	10.0	10.2	
103 2-Chlorotoluene	126	15.722	15.722	0.000	97	135889	10.0	10.3	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	97	395934	10.0	10.3	
105 4-Chlorotoluene	126	15.850	15.850	0.000	96	138063	10.0	10.3	
106 tert-Butylbenzene	134	16.166	16.166	0.000	92	96640	10.0	9.86	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	95	411657	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.440	16.440	0.000	94	492426	10.0	10.1	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	473897	10.0	10.1	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	98	280991	10.0	10.1	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	97	284644	10.0	9.94	
115 n-Butylbenzene	91	17.103	17.103	0.000	97	375807	10.0	10.1	
116 1,2-Dichlorobenzene	146	17.268	17.268	0.000	99	280685	10.0	9.90	
117 1,2-Dibromo-3-Chloropropan	75	18.247	18.247	0.000	90	33347	10.0	9.50	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	94	224794	10.0	9.60	
120 Hexachlorobutadiene	225	19.464	19.464	0.000	95	91635	10.0	9.54	
121 Naphthalene	128	19.713	19.713	0.000	97	638152	10.0	10.0	
122 1,2,3-Trichlorobenzene	180	20.066	20.066	0.000	95	221664	10.0	9.78	
S 125 Total BTEX	1				0			51.3	
S 126 Xylenes, Total	1				0			20.6	
S 123 1,2-Dichloroethene, Total	1				0			20.4	
S 124 1,3-Dichloropropene, Total	1				0			19.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00087

Amount Added: 5.00

Units: uL

GAS CORP mix_00192

Amount Added: 5.00

Units: uL

P 8260 IS_00184

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00201

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973P\\20161129-58712.b\\P20732.D

Injection Date: 29-Nov-2016 16:01:30

Instrument ID: HP5973P

Lims ID: IC 4

Client ID:

Operator ID: RF

Worklist Smp#: 8

Purge Vol: 5.000 mL

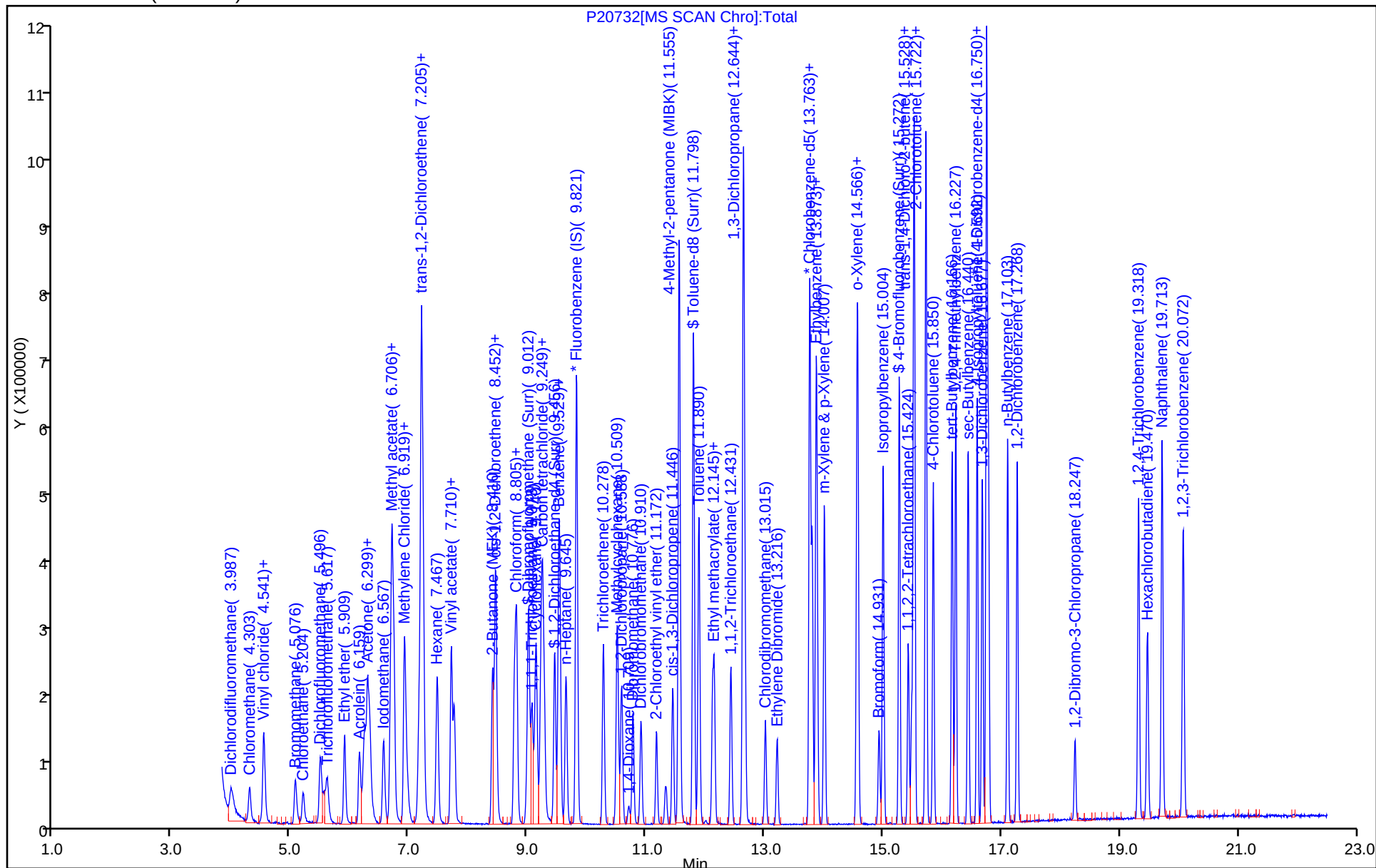
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20732.D

Injection Date: 29-Nov-2016 16:01:30

Instrument ID: HP5973P

Lims ID: IC 4

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)

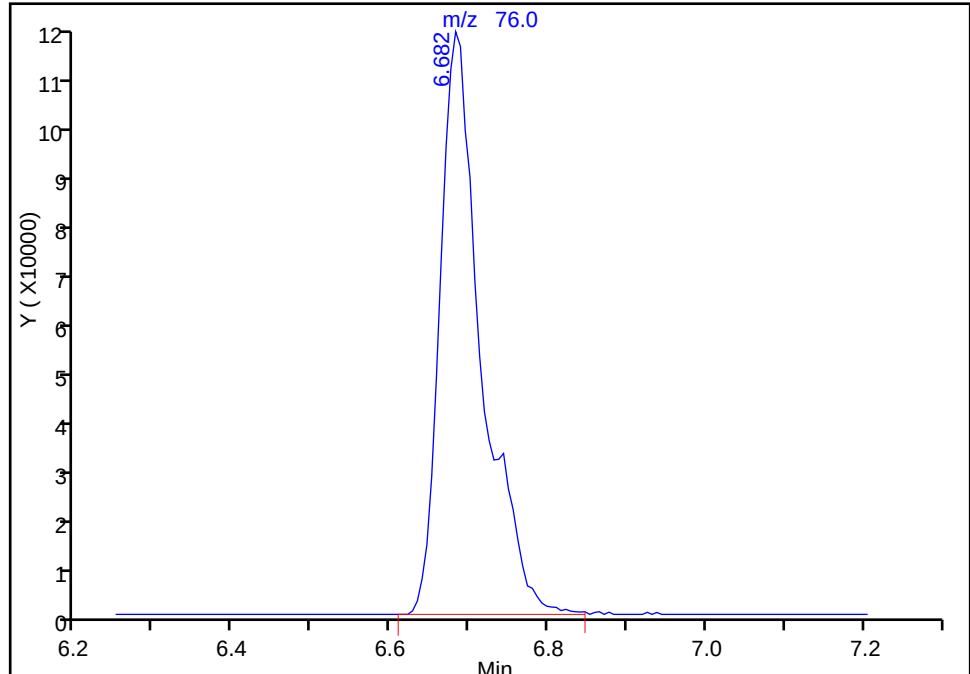
Detector: MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

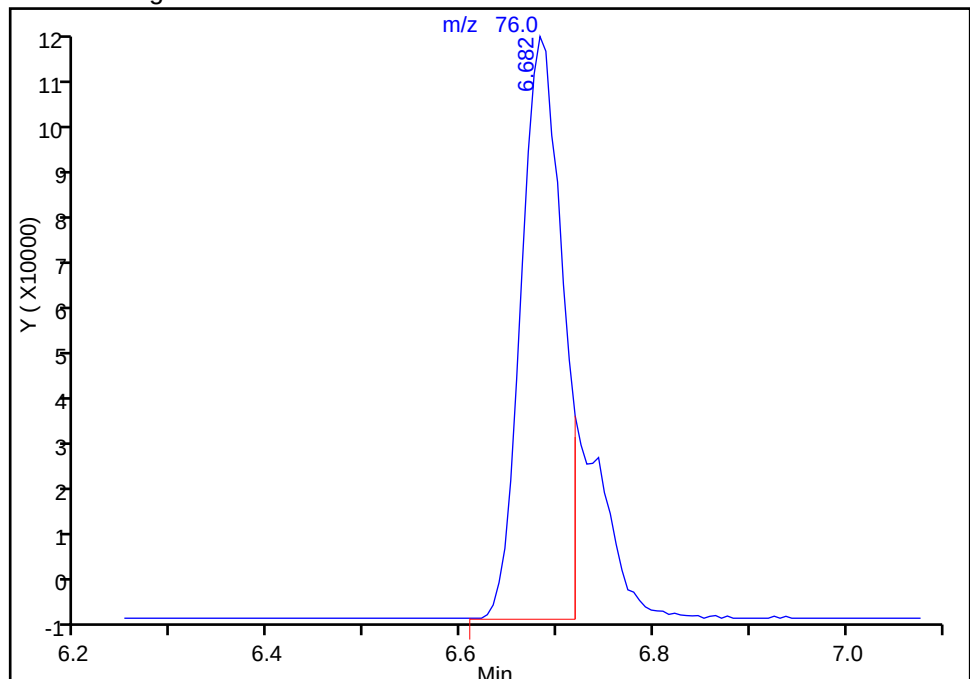
RT: 6.68
Area: 404408
Amount: 11.422881
Amount Units: ug/L

Processing Integration Results



RT: 6.68
Area: 328207
Amount: 9.869046
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 30-Nov-2016 08:57:35

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20733.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 29-Nov-2016 16:28:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 5
 Misc. Info.: 480-0058712-009
 Operator ID: RF Instrument ID: HP5973P
 Sublist: chrom-P-8260H2O*sub11
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 12:11:54 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: farrellr

Date: 30-Nov-2016 08:11:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	99	148766	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	84	307702	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	92	412980	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.012	0.000	94	209507	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.450	0.000	0	113440	25.0	24.5	
\$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	93	678925	25.0	25.4	
\$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	97	281835	25.0	25.6	
10 Dichlorodifluoromethane	85	3.975	3.975	0.000	99	299687	25.0	25.2	
11 Chloromethane	50	4.297	4.297	0.000	99	228389	25.0	23.0	
17 Vinyl chloride	62	4.522	4.522	0.000	98	187867	25.0	24.7	
144 Butadiene	54	4.547	4.547	0.000	86	187706	25.0	23.8	
12 Bromomethane	94	5.076	5.076	0.000	91	144688	25.0	21.3	
13 Chloroethane	64	5.204	5.204	0.000	98	174755	25.0	28.3	
19 Dichlorofluoromethane	67	5.490	5.490	0.000	97	459658	25.0	25.9	
14 Trichlorofluoromethane	101	5.587	5.587	0.000	98	446115	25.0	25.6	
20 Ethyl ether	59	5.903	5.903	0.000	96	281397	25.0	25.2	
22 Acrolein	56	6.153	6.153	0.000	100	414482	125.0	131.9	
16 1,1,2-Trichloro-1,2,2-trif	101	6.238	6.238	0.000	88	308432	25.0	25.9	
25 1,1-Dichloroethene	96	6.287	6.287	0.000	96	273448	25.0	24.6	
24 Acetone	43	6.329	6.329	0.000	100	615820	125.0	124.9	
18 Iodomethane	142	6.554	6.554	0.000	98	580675	25.0	25.4	
27 Carbon disulfide	76	6.670	6.670	0.000	100	854561	25.0	25.9	
30 Methyl acetate	43	6.700	6.700	0.000	99	1686964	125.0	126.0	
28 3-Chloro-1-propene	41	6.737	6.737	0.000	83	451714	25.0	25.3	
31 Methylene Chloride	84	6.907	6.907	0.000	98	294738	25.0	26.1	
33 2-Methyl-2-propanol	59	6.938	6.938	0.000	99	630090	250.0	266.7	
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	98	801902	25.0	25.7	
34 Acrylonitrile	53	7.199	7.199	0.000	100	1856112	250.0	257.1	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.000	96	287262	25.0	24.9	
36 Hexane	57	7.467	7.467	0.000	90	423231	25.0	24.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.704	7.704	0.000	97	1443434	50.0	52.5	
40 1,1-Dichloroethane	63	7.759	7.759	0.000	97	533351	25.0	24.7	
44 2-Butanone (MEK)	43	8.398	8.398	0.000	99	1075092	125.0	128.5	
45 2,2-Dichloropropane	77	8.452	8.452	0.000	58	382565	25.0	25.7	
43 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	83	316671	25.0	25.2	
50 Chlorobromomethane	128	8.769	8.769	0.000	96	173185	25.0	24.8	
51 Tetrahydrofuran	42	8.799	8.799	0.000	90	296541	50.0	51.6	
49 Chloroform	83	8.805	8.805	0.000	94	489378	25.0	24.3	
52 1,1,1-Trichloroethane	97	9.067	9.067	0.000	98	447446	25.0	25.6	
54 Cyclohexane	56	9.134	9.134	0.000	90	570060	25.0	25.1	
53 Isobutyl alcohol	43	9.219	9.219	0.000	97	568491	625.0	702.1	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	93	342133	25.0	25.3	
55 Carbon tetrachloride	117	9.274	9.274	0.000	95	410011	25.0	25.6	
57 Benzene	78	9.523	9.523	0.000	98	982503	25.0	25.2	
60 1,2-Dichloroethane	62	9.547	9.547	0.000	97	434117	25.0	24.6	
59 n-Heptane	43	9.645	9.645	0.000	94	344970	25.0	24.8	
62 Trichloroethene	95	10.277	10.277	0.000	94	292857	25.0	25.2	
64 Methylcyclohexane	83	10.509	10.509	0.000	94	444858	25.0	25.8	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	96	280739	25.0	24.5	
68 1,4-Dioxane	88	10.709	10.709	0.000	98	81402	500.0	541.9	
69 Dibromomethane	93	10.776	10.776	0.000	91	188954	25.0	25.6	
70 Dichlorobromomethane	83	10.910	10.910	0.000	98	351609	25.0	25.9	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	92	211246	25.0	26.6	
73 cis-1,3-Dichloropropene	75	11.445	11.445	0.000	94	399616	25.0	26.4	
75 4-Methyl-2-pentanone (MIBK)	43	11.555	11.555	0.000	96	2133547	125.0	135.0	
76 Toluene	92	11.890	11.890	0.000	98	603216	25.0	25.4	
77 Ethyl methacrylate	69	12.121	12.121	0.000	91	333761	25.0	26.1	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	94	373941	25.0	26.7	
79 1,1,2-Trichloroethane	83	12.431	12.431	0.000	92	212300	25.0	25.4	
80 Tetrachloroethene	166	12.638	12.638	0.000	94	330487	25.0	25.2	
83 2-Hexanone	43	12.644	12.644	0.000	95	1445241	125.0	136.6	
82 1,3-Dichloropropane	76	12.668	12.668	0.000	98	391442	25.0	25.3	
81 Chlorodibromomethane	129	13.015	13.015	0.000	90	312190	25.0	27.3	
85 Ethylene Dibromide	107	13.210	13.210	0.000	99	303037	25.0	25.7	
87 Chlorobenzene	112	13.806	13.806	0.000	97	785407	25.0	25.4	
89 Ethylbenzene	91	13.867	13.867	0.000	98	1133607	25.0	26.3	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	94	318871	25.0	26.5	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	492418	25.0	25.9	
93 o-Xylene	106	14.560	14.560	0.000	94	511366	25.0	26.8	
94 Styrene	104	14.579	14.579	0.000	95	739290	25.0	27.2	
92 Bromoform	173	14.931	14.931	0.000	99	237411	25.0	27.2	
95 Isopropylbenzene	105	15.004	15.004	0.000	95	1208310	25.0	26.3	
97 1,1,2,2-Tetrachloroethane	83	15.430	15.430	0.000	97	411642	25.0	25.1	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	82	137870	25.0	27.3	
101 1,2,3-Trichloropropane	110	15.515	15.515	0.000	75	130440	25.0	25.3	
100 Bromobenzene	156	15.521	15.521	0.000	89	397660	25.0	24.7	
99 N-Propylbenzene	91	15.534	15.534	0.000	97	1369022	25.0	25.4	
103 2-Chlorotoluene	126	15.722	15.722	0.000	98	346906	25.0	26.0	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	96	1017760	25.0	26.0	
105 4-Chlorotoluene	126	15.850	15.850	0.000	96	352496	25.0	25.8	
106 tert-Butylbenzene	134	16.166	16.166	0.000	91	263102	25.0	26.4	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	95	1066790	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.440	16.440	0.000	93	1297907	25.0	26.2	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	1267291	25.0	26.7	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	98	718991	25.0	25.3	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	96	717057	25.0	24.7	
115 n-Butylbenzene	91	17.103	17.103	0.000	97	971235	25.0	25.7	
116 1,2-Dichlorobenzene	146	17.267	17.267	0.000	99	719807	25.0	25.0	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	91	90060	25.0	25.3	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	94	609065	25.0	25.6	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	94	254237	25.0	26.1	
121 Naphthalene	128	19.713	19.713	0.000	97	1709965	25.0	26.4	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	96	593498	25.0	25.8	

Reagents:

8260 CORP mix_00087

Amount Added: 12.50

Units: uL

GAS CORP mix_00192

Amount Added: 12.50

Units: uL

P 8260 IS_00184

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00201

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973P\\20161129-58712.b\\P20733.D

Injection Date: 29-Nov-2016 16:28:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: ICIS 5

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

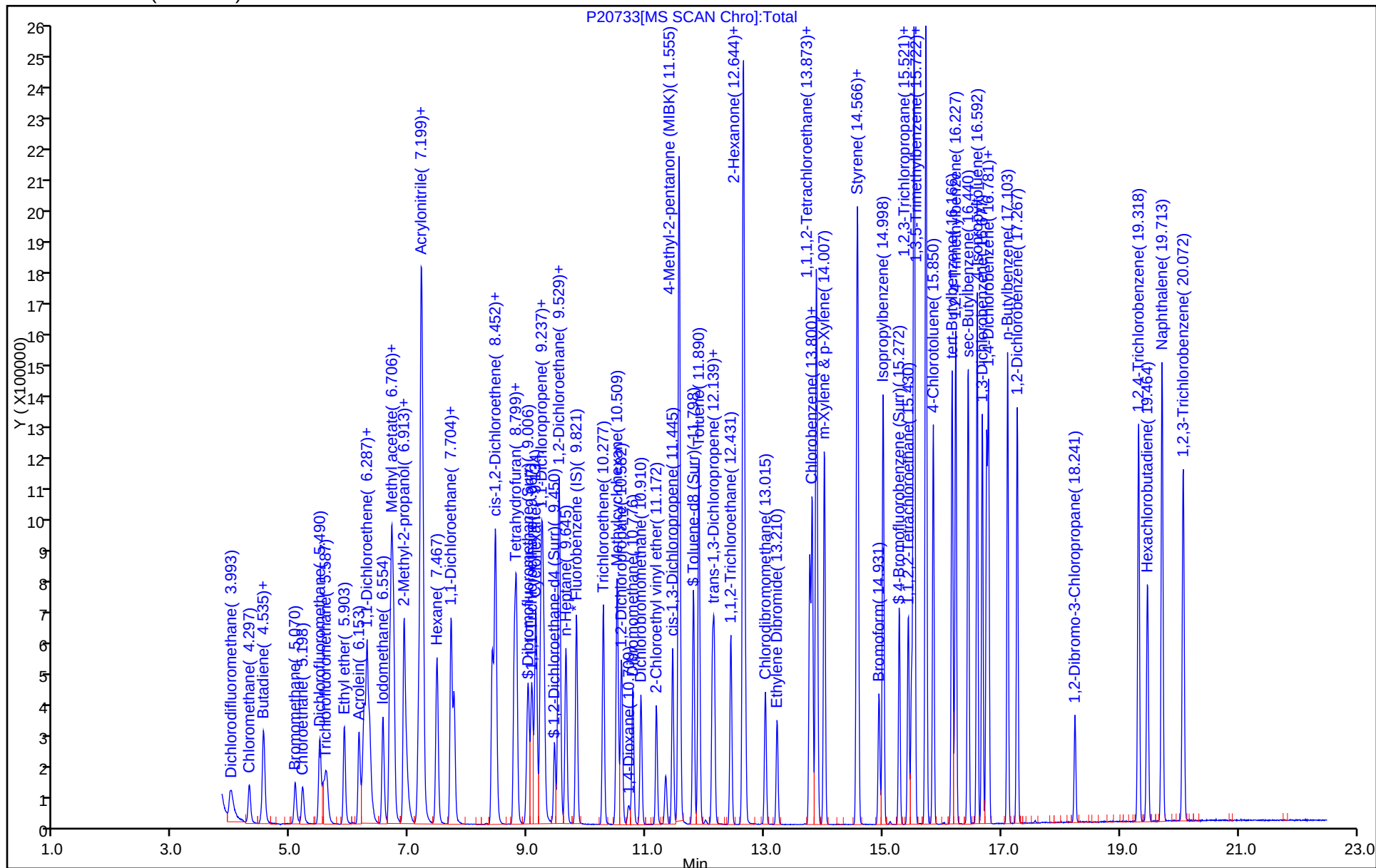
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20734.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 29-Nov-2016 16:56:30 ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0058712-010
 Operator ID: RF Instrument ID: HP5973P
 Sublist: chrom-P-8260H2O*sub11
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 12:11:56 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: farrellr

Date: 30-Nov-2016 08:54:50

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	9.821	9.821	0.000	99	150238	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	83	323265	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.750	0.001	92	418106	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.012	0.000	94	210168	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.450	0.000	0	114075	25.0	24.4	
\$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	93	700719	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.278	-0.006	97	294148	25.0	25.4	
10 Dichlorodifluoromethane	85	3.993	3.975	0.018	99	611446	50.0	50.9	
11 Chloromethane	50	4.310	4.297	0.013	99	432534	50.0	43.1	
17 Vinyl chloride	62	4.529	4.522	0.007	98	356087	50.0	46.4	
144 Butadiene	54	4.553	4.547	0.006	86	361680	50.0	45.5	
12 Bromomethane	94	5.076	5.076	0.000	91	360948	50.0	51.3	
13 Chloroethane	64	5.198	5.204	-0.006	99	352707	50.0	56.6	
19 Dichlorofluoromethane	67	5.490	5.490	0.000	97	949070	50.0	52.9	
14 Trichlorofluoromethane	101	5.605	5.587	0.018	98	908090	50.0	51.6	
20 Ethyl ether	59	5.904	5.903	0.001	95	571584	50.0	50.6	
22 Acrolein	56	6.153	6.153	0.000	99	837876	250.0	263.9	
16 1,1,2-Trichloro-1,2,2-trif	101	6.238	6.238	0.000	88	597485	50.0	49.6	
25 1,1-Dichloroethene	96	6.287	6.287	0.000	95	550013	50.0	48.9	
24 Acetone	43	6.329	6.329	0.000	99	1235043	250.0	248.1	
18 Iodomethane	142	6.561	6.554	0.007	98	1182039	50.0	51.3	
27 Carbon disulfide	76	6.670	6.670	0.000	100	1667862	50.0	50.1	M
30 Methyl acetate	43	6.700	6.700	0.000	99	3237144	250.0	239.5	
28 3-Chloro-1-propene	41	6.737	6.737	0.000	86	879156	50.0	48.8	
31 Methylene Chloride	84	6.913	6.907	0.006	99	577679	50.0	51.4	
33 2-Methyl-2-propanol	59	6.944	6.938	0.006	100	1326927	500.0	556.2	
32 Methyl tert-butyl ether	73	7.163	7.169	-0.006	97	1587584	50.0	50.3	
34 Acrylonitrile	53	7.199	7.199	0.000	100	3513048	500.0	481.8	
35 trans-1,2-Dichloroethene	96	7.230	7.236	-0.006	96	551481	50.0	47.4	
36 Hexane	57	7.467	7.467	0.000	89	854005	50.0	49.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.704	7.704	0.000	97	2886300	100.0	104.0	
40 1,1-Dichloroethane	63	7.759	7.759	0.000	97	1051596	50.0	48.2	
44 2-Butanone (MEK)	43	8.398	8.398	0.000	99	2150692	250.0	254.5	
45 2,2-Dichloropropane	77	8.453	8.452	0.001	71	743771	50.0	49.4	
43 cis-1,2-Dichloroethene	96	8.453	8.452	0.001	85	628564	50.0	49.6	
50 Chlorobromomethane	128	8.769	8.769	0.000	96	354633	50.0	50.4	
51 Tetrahydrofuran	42	8.799	8.799	0.000	90	576803	100.0	99.4	
49 Chloroform	83	8.811	8.805	0.006	94	952693	50.0	46.8	
52 1,1,1-Trichloroethane	97	9.067	9.067	0.000	99	893292	50.0	50.6	
54 Cyclohexane	56	9.134	9.134	0.000	91	1202384	50.0	52.5	
53 Isobutyl alcohol	43	9.219	9.219	0.000	97	1188300	1250.0	1453.1	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	94	689663	50.0	50.5	
55 Carbon tetrachloride	117	9.274	9.274	0.000	96	824927	50.0	51.0	
57 Benzene	78	9.523	9.523	0.000	98	1903101	50.0	48.4	
60 1,2-Dichloroethane	62	9.548	9.547	0.001	97	869544	50.0	48.9	
59 n-Heptane	43	9.645	9.645	0.000	94	681424	50.0	48.5	
62 Trichloroethene	95	10.272	10.277	-0.005	94	598008	50.0	50.9	
64 Methylcyclohexane	83	10.509	10.509	0.000	94	894148	50.0	51.4	
63 1,2-Dichloropropane	63	10.588	10.582	0.006	96	584186	50.0	50.6	
68 1,4-Dioxane	88	10.710	10.709	0.001	97	168349	1000.0	1066.8	
69 Dibromomethane	93	10.776	10.776	0.000	90	377712	50.0	50.6	
70 Dichlorobromomethane	83	10.910	10.910	0.000	98	735883	50.0	53.6	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	92	459174	50.0	57.4	
73 cis-1,3-Dichloropropene	75	11.446	11.445	0.001	95	832402	50.0	54.6	
75 4-Methyl-2-pentanone (MIBK)	43	11.555	11.555	0.000	95	4022854	250.0	242.3	
76 Toluene	92	11.890	11.890	0.000	98	1215892	50.0	48.7	
77 Ethyl methacrylate	69	12.121	12.121	0.000	91	700262	50.0	51.8	
78 trans-1,3-Dichloropropene	75	12.145	12.151	-0.006	93	760503	50.0	51.7	
79 1,1,2-Trichloroethane	83	12.431	12.431	0.000	92	430769	50.0	49.0	
80 Tetrachloroethene	166	12.638	12.638	0.000	96	667999	50.0	48.4	
83 2-Hexanone	43	12.644	12.644	0.000	96	2698673	250.0	242.7	
82 1,3-Dichloropropane	76	12.668	12.668	0.000	95	745984	50.0	45.9	
81 Chlorodibromomethane	129	13.015	13.015	0.000	90	674144	50.0	56.2	
85 Ethylene Dibromide	107	13.210	13.210	0.000	98	641844	50.0	51.9	
87 Chlorobenzene	112	13.806	13.806	0.000	98	1605532	50.0	49.4	
89 Ethylbenzene	91	13.867	13.867	0.000	97	2229069	50.0	49.2	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	94	645603	50.0	51.0	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	996906	50.0	50.0	
93 o-Xylene	106	14.560	14.560	0.000	96	1008322	50.0	50.4	
94 Styrene	104	14.579	14.579	0.000	96	1494757	50.0	52.3	
92 Bromoform	173	14.932	14.931	0.001	98	546775	50.0	59.6	
95 Isopropylbenzene	105	15.005	15.004	0.001	95	2422344	50.0	52.0	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.430	-0.006	96	825404	50.0	49.8	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	85	284563	50.0	55.7	
101 1,2,3-Trichloropropane	110	15.516	15.515	0.001	65	255140	50.0	49.0	
100 Bromobenzene	156	15.522	15.521	0.001	85	795082	50.0	48.8	
99 N-Propylbenzene	91	15.534	15.534	0.000	97	2611920	50.0	47.9	
103 2-Chlorotoluene	126	15.722	15.722	0.000	98	667409	50.0	49.4	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	98	1959592	50.0	49.5	
105 4-Chlorotoluene	126	15.850	15.850	0.000	96	708754	50.0	51.2	
106 tert-Butylbenzene	134	16.166	16.166	0.000	91	535436	50.0	53.1	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	95	2122494	50.0	51.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.434	16.440	-0.006	93	2565751	50.0	51.1	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	2525065	50.0	52.5	
110 1,3-Dichlorobenzene	146	16.678	16.677	0.001	98	1424157	50.0	49.6	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	96	1423966	50.0	48.4	
115 n-Butylbenzene	91	17.103	17.103	0.000	97	1922712	50.0	50.3	
116 1,2-Dichlorobenzene	146	17.268	17.267	0.001	99	1449146	50.0	49.7	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	92	200664	50.0	55.6	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	94	1256555	50.0	52.2	
120 Hexachlorobutadiene	225	19.464	19.470	-0.006	94	510104	50.0	51.7	
121 Naphthalene	128	19.713	19.713	0.000	97	3467511	50.0	52.9	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	96	1204624	50.0	51.7	
S 125 Total BTEX	1				0			246.8	
S 126 Xylenes, Total	1				0			100.4	
S 123 1,2-Dichloroethene, Total	1				0			97.0	
S 124 1,3-Dichloropropene, Total	1				0			106.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00087

Amount Added: 25.00

Units: uL

GAS CORP mix_00192

Amount Added: 25.00

Units: uL

P 8260 IS_00184

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00201

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973P\\20161129-58712.b\\P20734.D

Injection Date: 29-Nov-2016 16:56:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: IC 6

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

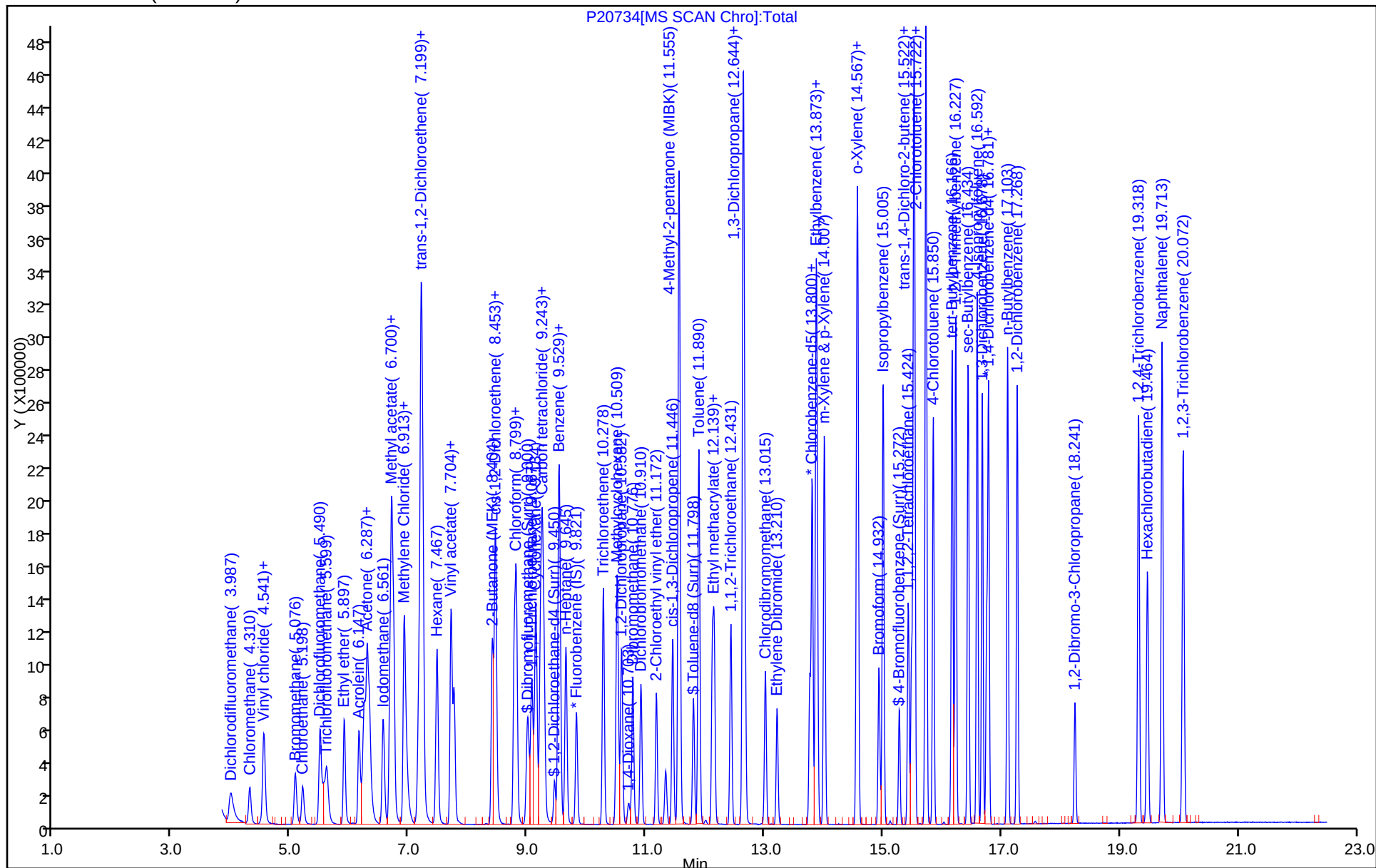
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

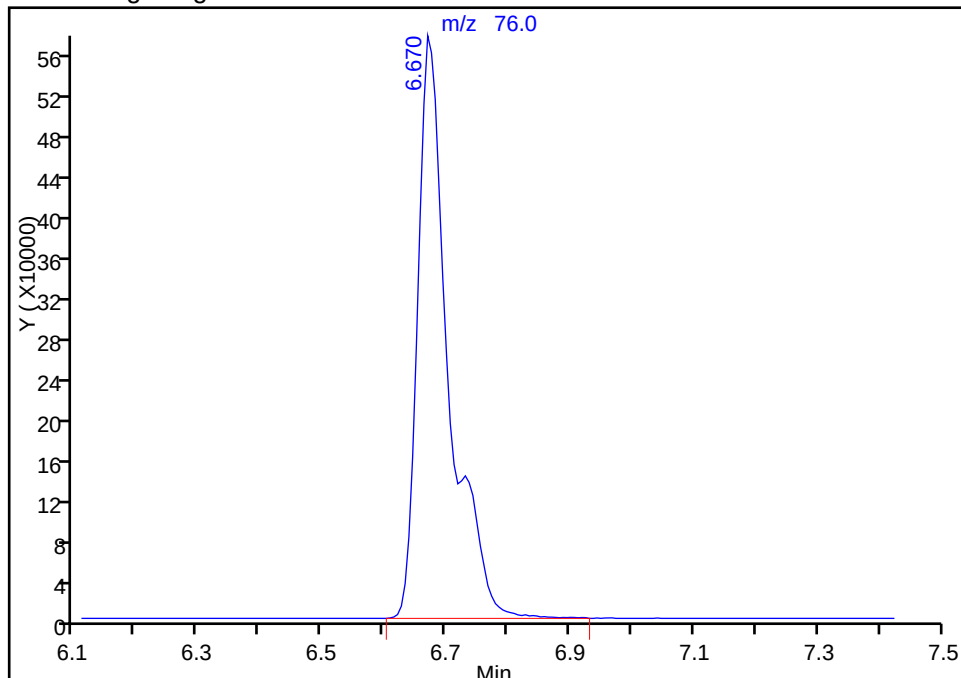
Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20734.D
Injection Date: 29-Nov-2016 16:56:30 Instrument ID: HP5973P
Lims ID: IC 6
Client ID:
Operator ID: RF ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

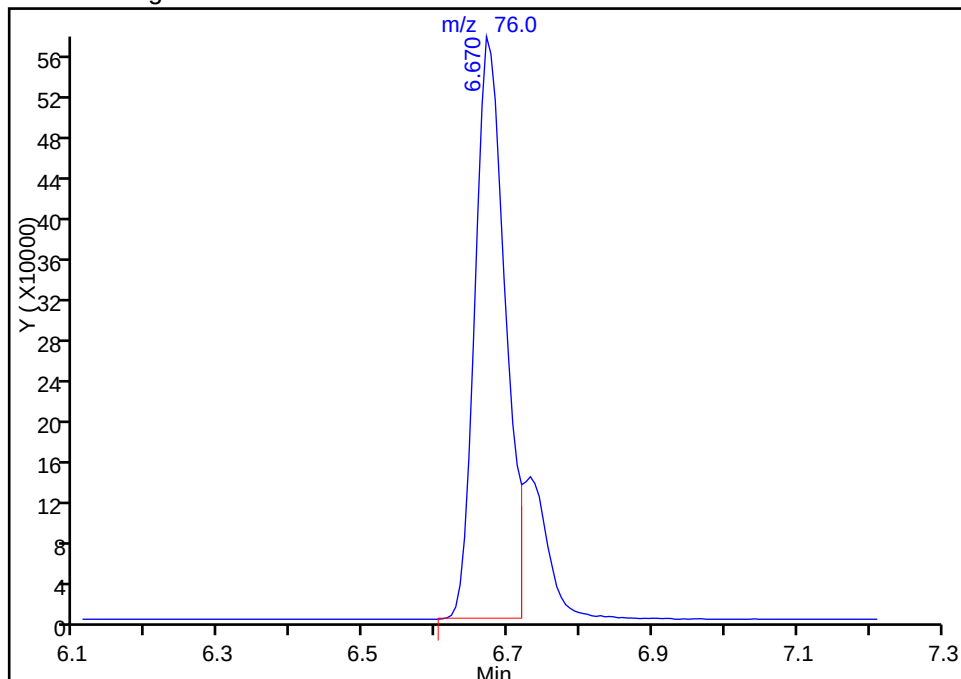
RT: 6.67
Area: 1997136
Amount: 54.866300
Amount Units: ug/L

Processing Integration Results



RT: 6.67
Area: 1667862
Amount: 50.072792
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 30-Nov-2016 08:56:44

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20735.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 29-Nov-2016 17:23:30 ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 7
 Misc. Info.: 480-0058712-011
 Operator ID: RF Instrument ID: HP5973P
 Sublist: chrom-P-8260H2O*sub11
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 12:11:58 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: gentilej

Date: 30-Nov-2016 11:36:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.828	9.821	0.007	99	155628	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.763	0.001	83	334169	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.750	0.001	91	417904	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.012	0.000	95	214589	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.450	0.006	0	119921	25.0	24.7	
\$ 5 Toluene-d8 (Surr)	98	11.799	11.798	0.001	93	723708	25.0	24.9	
\$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	97	311929	25.0	26.0	
10 Dichlorodifluoromethane	85	3.993	3.975	0.018	99	1214334	100.0	97.6	
11 Chloromethane	50	4.322	4.297	0.025	98	933156	100.0	89.8	
17 Vinyl chloride	62	4.535	4.522	0.013	98	773049	100.0	97.3	
144 Butadiene	54	4.559	4.547	0.012	85	747310	100.0	90.7	
12 Bromomethane	94	5.082	5.076	0.006	91	754379	100.0	102.7	
13 Chloroethane	64	5.210	5.204	0.006	99	679762	100.0	105.2	
19 Dichlorofluoromethane	67	5.496	5.490	0.006	97	1729064	100.0	93.1	
14 Trichlorofluoromethane	101	5.605	5.587	0.018	98	1830341	100.0	100.4	
20 Ethyl ether	59	5.904	5.903	0.001	95	1140347	100.0	97.5	
22 Acrolein	56	6.153	6.153	0.000	100	1629070	500.0	495.4	
16 1,1,2-Trichloro-1,2,2-trif	101	6.244	6.238	0.006	87	1155291	100.0	92.6	
25 1,1-Dichloroethene	96	6.293	6.287	0.006	96	1065598	100.0	91.5	
24 Acetone	43	6.329	6.329	0.000	99	2261185	500.0	438.6	
18 Iodomethane	142	6.561	6.554	0.007	98	2352679	100.0	98.5	
27 Carbon disulfide	76	6.670	6.670	0.000	100	3135675	100.0	90.9	
30 Methyl acetate	43	6.707	6.700	0.007	99	5794278	500.0	413.8	
28 3-Chloro-1-propene	41	6.737	6.737	0.000	92	1631024	100.0	87.4	
31 Methylene Chloride	84	6.913	6.907	0.006	99	1117528	100.0	96.8	
33 2-Methyl-2-propanol	59	6.944	6.938	0.006	100	2498558	1000.0	1010.9	
32 Methyl tert-butyl ether	73	7.169	7.169	0.000	97	3119049	100.0	95.5	
34 Acrylonitrile	53	7.205	7.199	0.006	99	6023749	1000.0	797.5	
35 trans-1,2-Dichloroethene	96	7.236	7.236	0.000	96	1051071	100.0	87.1	
36 Hexane	57	7.473	7.467	0.006	88	1660662	100.0	93.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.704	7.704	0.000	97	5298296	200.0	184.3	
40 1,1-Dichloroethane	63	7.759	7.759	0.000	97	2072572	100.0	91.7	
44 2-Butanone (MEK)	43	8.404	8.398	0.006	99	3953272	500.0	451.5	
45 2,2-Dichloropropane	77	8.459	8.452	0.007	85	1455400	100.0	93.3	
43 cis-1,2-Dichloroethene	96	8.459	8.452	0.007	84	1214645	100.0	92.6	
50 Chlorobromomethane	128	8.769	8.769	0.000	93	717098	100.0	98.3	
51 Tetrahydrofuran	42	8.799	8.799	0.000	90	1052172	200.0	175.1	
49 Chloroform	83	8.812	8.805	0.007	94	1868480	100.0	88.6	
52 1,1,1-Trichloroethane	97	9.067	9.067	0.000	99	1770554	100.0	96.8	
54 Cyclohexane	56	9.140	9.134	0.006	89	2306259	100.0	97.2	
53 Isobutyl alcohol	43	9.219	9.219	0.000	98	2176162	2500.0	2569.0	
56 1,1-Dichloropropene	75	9.243	9.243	0.000	95	1296709	100.0	91.7	
55 Carbon tetrachloride	117	9.274	9.274	0.000	95	1621185	100.0	96.8	
57 Benzene	78	9.523	9.523	0.000	97	3625617	100.0	89.1	
60 1,2-Dichloroethane	62	9.548	9.547	0.001	98	1659621	100.0	90.0	
59 n-Heptane	43	9.645	9.645	0.000	92	1240744	100.0	85.3	
62 Trichloroethene	95	10.278	10.277	0.001	93	1192026	100.0	98.0	
64 Methylcyclohexane	83	10.515	10.509	0.006	92	1753580	100.0	97.2	
63 1,2-Dichloropropane	63	10.588	10.582	0.006	96	1141239	100.0	95.4	
68 1,4-Dioxane	88	10.704	10.709	-0.005	98	290048	2000.0	1778.1	
69 Dibromomethane	93	10.777	10.776	0.001	89	750879	100.0	97.1	
70 Dichlorobromomethane	83	10.910	10.910	0.000	99	1468473	100.0	103.3	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	92	901369	100.0	108.7	
73 cis-1,3-Dichloropropene	75	11.446	11.445	0.001	95	1675386	100.0	106.0	
75 4-Methyl-2-pentanone (MIBK)	43	11.555	11.555	0.000	93	6552779	500.0	381.9	
76 Toluene	92	11.890	11.890	0.000	98	2364197	100.0	91.7	
77 Ethyl methacrylate	69	12.115	12.121	-0.006	89	1376263	100.0	98.2	
78 trans-1,3-Dichloropropene	75	12.151	12.151	0.000	92	1475595	100.0	97.1	
79 1,1,2-Trichloroethane	83	12.431	12.431	0.000	91	854313	100.0	94.0	
80 Tetrachloroethene	166	12.638	12.638	0.000	97	1267461	100.0	88.9	
83 2-Hexanone	43	12.644	12.644	0.000	91	4163481	500.0	362.3	
82 1,3-Dichloropropane	76	12.675	12.668	0.007	97	1356931	100.0	80.8	
81 Chlorodibromomethane	129	13.015	13.015	0.000	90	1392950	100.0	112.3	
85 Ethylene Dibromide	107	13.210	13.210	0.000	99	1263204	100.0	98.7	
87 Chlorobenzene	112	13.806	13.806	0.000	97	3159634	100.0	94.0	
89 Ethylbenzene	91	13.867	13.867	0.000	97	4191777	100.0	89.6	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	94	1233739	100.0	94.3	
90 m-Xylene & p-Xylene	106	14.013	14.007	0.006	0	1941172	100.0	94.2	
93 o-Xylene	106	14.561	14.560	0.001	95	1907503	100.0	92.2	
94 Styrene	104	14.579	14.579	0.000	96	2833443	100.0	95.9	
92 Bromoform	173	14.932	14.931	0.001	99	1148649	100.0	121.2	
95 Isopropylbenzene	105	15.005	15.004	0.001	95	4617329	100.0	99.2	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.430	-0.006	97	1619870	100.0	97.7	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	86	562397	100.0	110.2	
101 1,2,3-Trichloropropane	110	15.516	15.515	0.001	77	467027	100.0	89.7	
100 Bromobenzene	156	15.516	15.521	-0.005	85	1496892	100.0	92.0	
99 N-Propylbenzene	91	15.534	15.534	0.000	97	4756694	100.0	87.3	
103 2-Chlorotoluene	126	15.716	15.722	-0.006	98	1218966	100.0	90.3	
102 1,3,5-Trimethylbenzene	105	15.729	15.728	0.001	97	3608468	100.0	91.1	
105 4-Chlorotoluene	126	15.850	15.850	0.000	96	1353067	100.0	97.8	
106 tert-Butylbenzene	134	16.167	16.166	0.001	90	1045672	100.0	103.8	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	95	3989842	100.0	96.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.440	16.440	0.000	93	4867768	100.0	97.0	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	4770138	100.0	99.2	
110 1,3-Dichlorobenzene	146	16.678	16.677	0.001	98	2741633	100.0	95.5	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	96	2715320	100.0	92.3	
115 n-Butylbenzene	91	17.103	17.103	0.000	96	3651160	100.0	95.6	
116 1,2-Dichlorobenzene	146	17.268	17.267	0.001	99	2857321	100.0	98.1	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	94	414892	100.0	115.0	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	94	2472395	100.0	102.7	
120 Hexachlorobutadiene	225	19.464	19.470	-0.006	93	1006452	100.0	102.0	
121 Naphthalene	128	19.713	19.713	0.000	97	6522051	100.0	99.5	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	95	2315475	100.0	99.5	
S 125 Total BTEX	1				0			456.6	
S 126 Xylenes, Total	1				0			186.3	
S 123 1,2-Dichloroethene, Total	1				0			179.7	
S 124 1,3-Dichloropropene, Total	1				0			203.1	

Reagents:

8260 CORP mix_00087	Amount Added: 50.00	Units: uL	
GAS CORP mix_00192	Amount Added: 50.00	Units: uL	
P 8260 IS_00184	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00201	Amount Added: 1.25	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973P\\20161129-58712.b\\P20735.D

Injection Date: 29-Nov-2016 17:23:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: IC 7

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

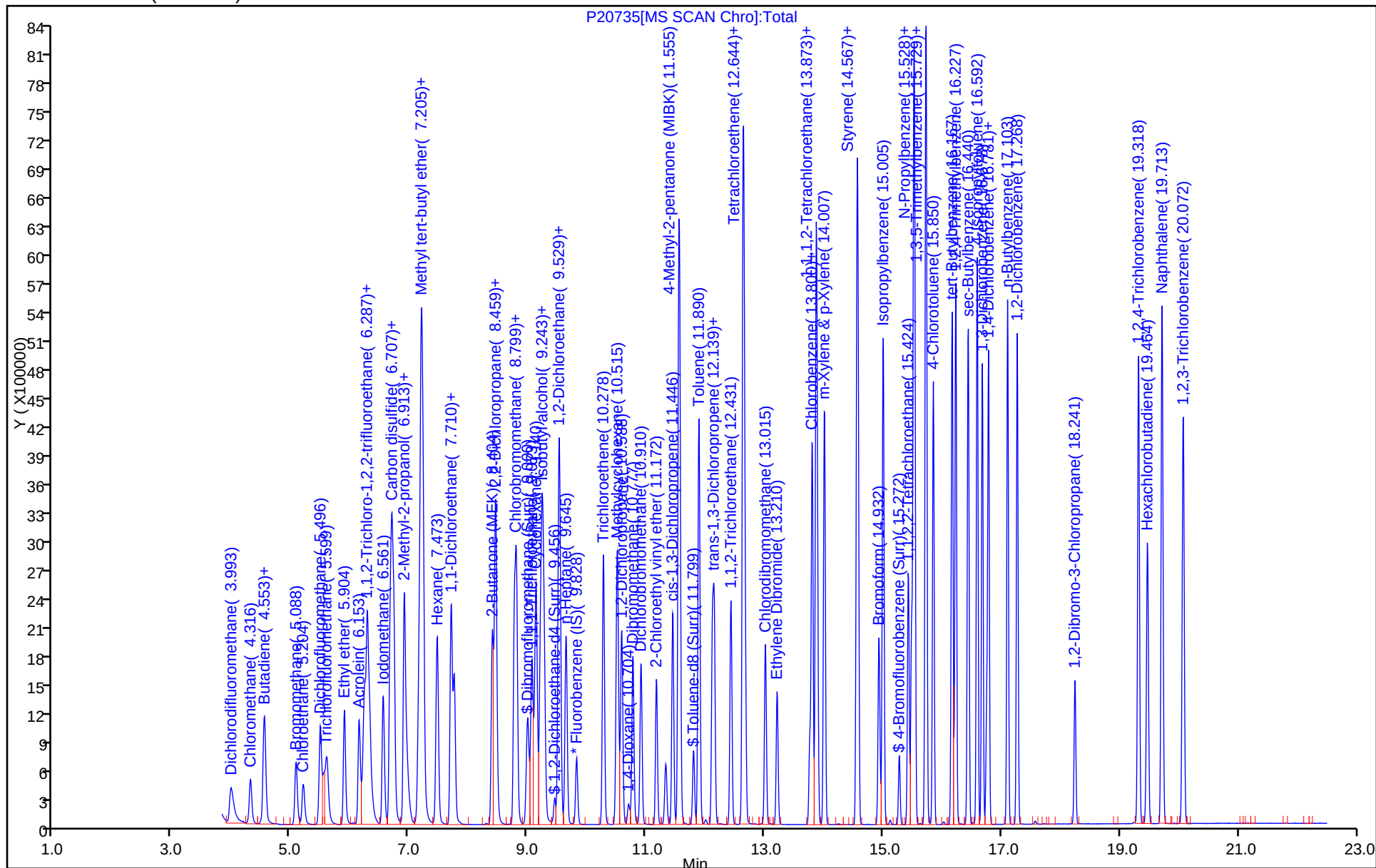
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-334061/3 Calibration Date: 11/30/2016 13:08
 Instrument ID: HP5973P Calib Start Date: 11/29/2016 14:39
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/29/2016 17:23
 Lab File ID: P20751.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	1.999	1.893	0.1000	23.7	25.0	-5.3	50.0
Chloromethane	Ave	1.669	1.423	0.1000	21.3	25.0	-14.8	20.0
Vinyl chloride	Ave	1.276	1.170	0.1000	22.9	25.0	-8.4	20.0
Butadiene	Ave	1.324	1.243		23.5	25.0	-6.1	20.0
Bromomethane	Lin1		0.5452	0.1000	12.3	25.0	-50.8*	50.0
Chloroethane	Ave	1.038	0.6796	0.1000	16.4	25.0	-34.5	50.0
Dichlorofluoromethane	Ave	2.983	2.601		21.8	25.0	-12.8	20.0
Trichlorofluoromethane	Ave	2.929	2.684	0.1000	22.9	25.0	-8.4	20.0
Ethyl ether	Ave	1.879	1.802		24.0	25.0	-4.1	20.0
Acrolein	Ave	0.5283	0.5549		131	125	5.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.004	1.861	0.1000	23.2	25.0	-7.2	20.0
1,1-Dichloroethene	Ave	1.870	1.693	0.1000	22.6	25.0	-9.4	20.0
Acetone	Ave	0.8282	0.7641	0.1000	115	125	-7.7	50.0
Iodomethane	Ave	3.836	3.744		24.4	25.0	-2.4	20.0
Carbon disulfide	Ave	5.543	5.236	0.1000	23.6	25.0	-5.5	20.0
Methyl acetate	Ave	2.249	2.136	0.1000	119	125	-5.1	50.0
Allyl chloride	Ave	2.996	2.843		23.7	25.0	-5.1	20.0
Methylene Chloride	Lin1		1.891	0.1000	24.8	25.0	-0.7	20.0
2-Methyl-2-propanol	Ave	0.3970	0.4194		264	250	5.6	50.0
Methyl tert-butyl ether	Ave	5.247	5.132	0.1000	24.5	25.0	-2.2	20.0
Acrylonitrile	Ave	1.213	1.190		245	250	-2.0	20.0
trans-1,2-Dichloroethene	Ave	1.938	1.843	0.1000	23.8	25.0	-4.9	20.0
Hexane	Ave	2.867	2.690		23.5	25.0	-6.2	20.0
Vinyl acetate	Ave	4.619	4.637		50.2	50.0	0.4	20.0
1,1-Dichloroethane	Ave	3.629	3.378	0.2000	23.3	25.0	-6.9	20.0
2-Butanone (MEK)	Ave	1.406	1.365	0.1000	121	125	-3.0	20.0
cis-1,2-Dichloroethene	Ave	2.108	1.983	0.1000	23.5	25.0	-5.9	20.0
2,2-Dichloropropane	Ave	2.505	2.397		23.9	25.0	-4.3	20.0
Chlorobromomethane	Ave	1.172	1.128		24.1	25.0	-3.8	20.0
Tetrahydrofuran	Ave	0.9655	0.9357		48.5	50.0	-3.1	20.0
Chloroform	Ave	3.386	3.034	0.2000	22.4	25.0	-10.4	20.0
1,1,1-Trichloroethane	Ave	2.938	2.767	0.1000	23.5	25.0	-5.8	20.0
Cyclohexane	Ave	3.810	3.721	0.1000	24.4	25.0	-2.3	20.0
Isobutyl alcohol	Ave	0.1361	0.1492		685	625	9.7	50.0
1,1-Dichloropropene	Ave	2.272	2.143		23.6	25.0	-5.7	20.0
Carbon tetrachloride	Ave	2.690	2.549	0.1000	23.7	25.0	-5.3	20.0
Benzene	Ave	6.540	6.064	0.5000	23.2	25.0	-7.3	20.0
1,2-Dichloroethane	Ave	2.961	2.748	0.1000	23.2	25.0	-7.2	20.0
n-Heptane	Ave	2.336	2.106		22.5	25.0	-9.9	20.0
Trichloroethene	Ave	1.955	1.820	0.2000	23.3	25.0	-6.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-334061/3 Calibration Date: 11/30/2016 13:08
 Instrument ID: HP5973P Calib Start Date: 11/29/2016 14:39
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/29/2016 17:23
 Lab File ID: P20751.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	2.897	2.707	0.1000	23.4	25.0	-6.6	20.0
1,2-Dichloropropane	Ave	1.923	1.790	0.1000	23.3	25.0	-6.9	20.0
1,4-Dioxane	Ave	0.0122	0.0154		632	500	26.3	50.0
Dibromomethane	Ave	1.242	1.164	0.1000	23.4	25.0	-6.3	20.0
Bromodichloromethane	Ave	2.284	2.176	0.2000	23.8	25.0	-4.7	20.0
2-Chloroethyl vinyl ether	Ave	1.332	1.374		25.8	25.0	3.1	20.0
cis-1,3-Dichloropropene	Ave	2.539	2.520	0.2000	24.8	25.0	-0.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.284	1.299	0.1000	126	125	1.2	20.0
Toluene	Ave	1.930	1.891	0.4000	24.5	25.0	-2.0	20.0
Ethyl methacrylate	Lin1		1.045		25.1	25.0	0.6	20.0
trans-1,3-Dichloropropene	Ave	1.137	1.161	0.1000	25.5	25.0	2.1	20.0
1,1,2-Trichloroethane	Ave	0.6797	0.6479	0.1000	23.8	25.0	-4.7	20.0
Tetrachloroethene	Ave	1.067	1.032	0.2000	24.2	25.0	-3.2	20.0
2-Hexanone	Ave	0.8598	0.8883	0.1000	129	125	3.3	20.0
1,3-Dichloropropane	Ave	1.256	1.188		23.7	25.0	-5.4	20.0
Dibromochloromethane	Ave	0.9277	0.9603	0.1000	25.9	25.0	3.5	20.0
1,2-Dibromoethane	Ave	0.9571	0.9566		25.0	25.0	-0.0	20.0
Chlorobenzene	Ave	2.516	2.445	0.5000	24.3	25.0	-2.8	20.0
Ethylbenzene	Ave	3.500	3.463	0.1000	24.7	25.0	-1.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9790	0.9795		25.0	25.0	0.0	20.0
m,p-Xylene	Ave	1.542	1.497	0.1000	24.3	25.0	-2.9	20.0
o-Xylene	Ave	1.548	1.577	0.3000	25.5	25.0	1.8	20.0
Styrene	Ave	2.210	2.325	0.3000	26.3	25.0	5.2	20.0
Bromoform	Ave	0.7093	0.7781	0.1000	27.4	25.0	9.7	50.0
Isopropylbenzene	Ave	2.786	2.711	0.1000	24.3	25.0	-2.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9918	0.9101	0.3000	22.9	25.0	-8.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3053	0.3242		26.5	25.0	6.2	50.0
1,2,3-Trichloropropane	Ave	0.3115	0.2930		23.5	25.0	-6.0	20.0
Bromobenzene	Ave	0.9737	0.9179		23.6	25.0	-5.7	20.0
N-Propylbenzene	Ave	3.260	3.066		23.5	25.0	-5.9	20.0
2-Chlorotoluene	Ave	0.8076	0.7720		23.9	25.0	-4.4	20.0
1,3,5-Trimethylbenzene	Ave	2.368	2.281		24.1	25.0	-3.7	20.0
4-Chlorotoluene	Ave	0.8274	0.8104		24.5	25.0	-2.0	20.0
tert-Butylbenzene	Ave	0.6026	0.5843		24.2	25.0	-3.0	20.0
1,2,4-Trimethylbenzene	Ave	2.482	2.404		24.2	25.0	-3.1	20.0
sec-Butylbenzene	Ave	3.003	2.855		23.8	25.0	-4.9	20.0
4-Isopropyltoluene	Ave	2.877	2.835		24.6	25.0	-1.5	20.0
1,3-Dichlorobenzene	Ave	1.718	1.621	0.6000	23.6	25.0	-5.6	20.0
1,4-Dichlorobenzene	Ave	1.760	1.629	0.5000	23.1	25.0	-7.5	20.0
n-Butylbenzene	Ave	2.285	2.162		23.7	25.0	-5.4	20.0
1,2-Dichlorobenzene	Ave	1.742	1.641	0.4000	23.6	25.0	-5.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-334061/3 Calibration Date: 11/30/2016 13:08
 Instrument ID: HP5973P Calib Start Date: 11/29/2016 14:39
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/29/2016 17:23
 Lab File ID: P20751.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	0.2158	0.2153	0.0500	24.9	25.0	-0.2	50.0
1,2,4-Trichlorobenzene	Ave	1.440	1.405	0.2000	24.4	25.0	-2.4	20.0
Hexachlorobutadiene	Ave	0.5900	0.5779		24.5	25.0	-2.1	20.0
Naphthalene	Ave	3.921	3.871		24.7	25.0	-1.3	20.0
1,2,3-Trichlorobenzene	Ave	1.392	1.351		24.3	25.0	-3.0	20.0
Dibromofluoromethane (Surr)	Ave	1.388	1.376		24.8	25.0	-0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7789	0.7495		24.1	25.0	-3.8	20.0
Toluene-d8 (Surr)	Ave	2.172	2.175		25.0	25.0	0.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8960	0.9409		26.3	25.0	5.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P20751.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 30-Nov-2016 13:08:30 ALS Bottle#: 3 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0058759-003
 Operator ID: RF Instrument ID: HP5973P
 Sublist: chrom-P-8260H2O*sub11
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 13:56:59 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: farrellr

Date: 30-Nov-2016 13:56:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.815	9.815	0.000	99	160289	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.757	13.757	0.000	84	328534	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	92	448156	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.006	9.006	0.000	94	220508	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.450	0.000	0	120130	25.0	24.1	
\$ 5 Toluene-d8 (Surr)	98	11.792	11.792	0.000	93	714421	25.0	25.0	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	97	309130	25.0	26.3	
10 Dichlorodifluoromethane	85	3.993	3.993	0.000	99	303443	25.0	23.7	
11 Chloromethane	50	4.303	4.303	0.000	99	228110	25.0	21.3	
17 Vinyl chloride	62	4.528	4.528	0.000	98	187469	25.0	22.9	
144 Butadiene	54	4.547	4.547	0.000	85	199159	25.0	23.5	
12 Bromomethane	94	5.070	5.070	0.000	91	87381	25.0	12.3	
13 Chloroethane	64	5.204	5.204	0.000	99	108929	25.0	16.4	
19 Dichlorofluoromethane	67	5.483	5.483	0.000	97	416857	25.0	21.8	
14 Trichlorofluoromethane	101	5.593	5.593	0.000	98	430207	25.0	22.9	
20 Ethyl ether	59	5.897	5.897	0.000	96	288813	25.0	24.0	
22 Acrolein	56	6.146	6.146	0.000	99	444727	125.0	131.3	
16 1,1,2-Trichloro-1,2,2-trif	101	6.238	6.238	0.000	87	298234	25.0	23.2	
25 1,1-Dichloroethene	96	6.286	6.286	0.000	96	271444	25.0	22.6	
24 Acetone	43	6.323	6.323	0.000	99	612358	125.0	115.3	
18 Iodomethane	142	6.554	6.554	0.000	98	600137	25.0	24.4	
27 Carbon disulfide	76	6.670	6.670	0.000	100	839272	25.0	23.6	M
30 Methyl acetate	43	6.700	6.700	0.000	99	1711587	125.0	118.7	
28 3-Chloro-1-propene	41	6.731	6.731	0.000	91	455648	25.0	23.7	
31 Methylene Chloride	84	6.907	6.907	0.000	99	303028	25.0	24.8	
33 2-Methyl-2-propanol	59	6.937	6.937	0.000	99	672218	250.0	264.1	
32 Methyl tert-butyl ether	73	7.162	7.162	0.000	97	822643	25.0	24.5	
34 Acrylonitrile	53	7.199	7.199	0.000	100	1906860	250.0	245.1	
35 trans-1,2-Dichloroethene	96	7.229	7.229	0.000	97	295400	25.0	23.8	
36 Hexane	57	7.467	7.467	0.000	89	431190	25.0	23.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.698	7.698	0.000	97	1486553	50.0	50.2	
40 1,1-Dichloroethane	63	7.753	7.753	0.000	97	541385	25.0	23.3	
44 2-Butanone (MEK)	43	8.397	8.397	0.000	99	1093662	125.0	121.3	
43 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	83	317780	25.0	23.5	
45 2,2-Dichloropropane	77	8.458	8.458	0.000	57	384267	25.0	23.9	
50 Chlorobromomethane	128	8.769	8.769	0.000	94	180768	25.0	24.1	
51 Tetrahydrofuran	42	8.793	8.793	0.000	90	299975	50.0	48.5	
49 Chloroform	83	8.805	8.805	0.000	95	486355	25.0	22.4	
52 1,1,1-Trichloroethane	97	9.061	9.061	0.000	98	443450	25.0	23.5	
54 Cyclohexane	56	9.134	9.134	0.000	90	596501	25.0	24.4	
53 Isobutyl alcohol	43	9.213	9.213	0.000	96	597973	625.0	685.4	
56 1,1-Dichloropropene	75	9.237	9.237	0.000	93	343514	25.0	23.6	
55 Carbon tetrachloride	117	9.273	9.273	0.000	95	408506	25.0	23.7	
57 Benzene	78	9.517	9.517	0.000	98	971913	25.0	23.2	
60 1,2-Dichloroethane	62	9.541	9.541	0.000	97	440500	25.0	23.2	
59 n-Heptane	43	9.645	9.645	0.000	94	337562	25.0	22.5	
62 Trichloroethene	95	10.271	10.271	0.000	92	291685	25.0	23.3	
64 Methylcyclohexane	83	10.502	10.502	0.000	94	433848	25.0	23.4	
63 1,2-Dichloropropane	63	10.581	10.581	0.000	97	286992	25.0	23.3	
68 1,4-Dioxane	88	10.697	10.697	0.000	97	101291	500.0	631.6	
69 Dibromomethane	93	10.770	10.770	0.000	89	186606	25.0	23.4	
70 Dichlorobromomethane	83	10.910	10.910	0.000	98	348803	25.0	23.8	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	92	220222	25.0	25.8	
73 cis-1,3-Dichloropropene	75	11.445	11.445	0.000	94	403977	25.0	24.8	
75 4-Methyl-2-pentanone (MIBK)	43	11.555	11.555	0.000	95	2133269	125.0	126.4	
76 Toluene	92	11.889	11.889	0.000	99	621399	25.0	24.5	
77 Ethyl methacrylate	69	12.114	12.114	0.000	90	343328	25.0	25.1	
78 trans-1,3-Dichloropropene	75	12.145	12.145	0.000	95	381483	25.0	25.5	
79 1,1,2-Trichloroethane	83	12.425	12.425	0.000	92	212842	25.0	23.8	
80 Tetrachloroethene	166	12.632	12.632	0.000	96	339149	25.0	24.2	
83 2-Hexanone	43	12.644	12.644	0.000	94	1459179	125.0	129.1	
82 1,3-Dichloropropane	76	12.668	12.668	0.000	98	390399	25.0	23.7	
81 Chlorodibromomethane	129	13.009	13.009	0.000	90	315495	25.0	25.9	
85 Ethylene Dibromide	107	13.210	13.210	0.000	98	314271	25.0	25.0	
87 Chlorobenzene	112	13.800	13.800	0.000	97	803191	25.0	24.3	
89 Ethylbenzene	91	13.867	13.867	0.000	97	1137779	25.0	24.7	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	94	321804	25.0	25.0	
90 m-Xylene & p-Xylene	106	14.013	14.013	0.000	0	491741	25.0	24.3	
93 o-Xylene	106	14.560	14.560	0.000	95	517967	25.0	25.5	
94 Styrene	104	14.578	14.578	0.000	96	763827	25.0	26.3	
92 Bromoform	173	14.925	14.925	0.000	98	255631	25.0	27.4	
95 Isopropylbenzene	105	14.998	14.998	0.000	95	1214944	25.0	24.3	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	97	407848	25.0	22.9	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	88	145271	25.0	26.5	
101 1,2,3-Trichloropropane	110	15.515	15.515	0.000	73	131295	25.0	23.5	
100 Bromobenzene	156	15.521	15.521	0.000	87	411345	25.0	23.6	
99 N-Propylbenzene	91	15.533	15.533	0.000	98	1374188	25.0	23.5	
103 2-Chlorotoluene	126	15.722	15.722	0.000	97	345986	25.0	23.9	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	97	1022173	25.0	24.1	
105 4-Chlorotoluene	126	15.850	15.850	0.000	96	363204	25.0	24.5	
106 tert-Butylbenzene	134	16.166	16.166	0.000	91	261841	25.0	24.2	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	95	1077405	25.0	24.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.440	16.440	0.000	93	1279515	25.0	23.8	
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	1270325	25.0	24.6	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	98	726590	25.0	23.6	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	97	729827	25.0	23.1	
115 n-Butylbenzene	91	17.103	17.103	0.000	97	968877	25.0	23.7	
116 1,2-Dichlorobenzene	146	17.267	17.267	0.000	99	735464	25.0	23.6	
117 1,2-Dibromo-3-Chloropropan	75	18.247	18.247	0.000	92	96478	25.0	24.9	
119 1,2,4-Trichlorobenzene	180	19.317	19.317	0.000	94	629502	25.0	24.4	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	94	258984	25.0	24.5	
121 Naphthalene	128	19.713	19.713	0.000	97	1734913	25.0	24.7	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	96	605318	25.0	24.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00192	Amount Added: 12.50	Units: uL	
8260 CORP mix_00086	Amount Added: 12.50	Units: uL	
P 8260 IS_00183	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr_00200	Amount Added: 1.25	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P20751.D

Injection Date: 30-Nov-2016 13:08:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

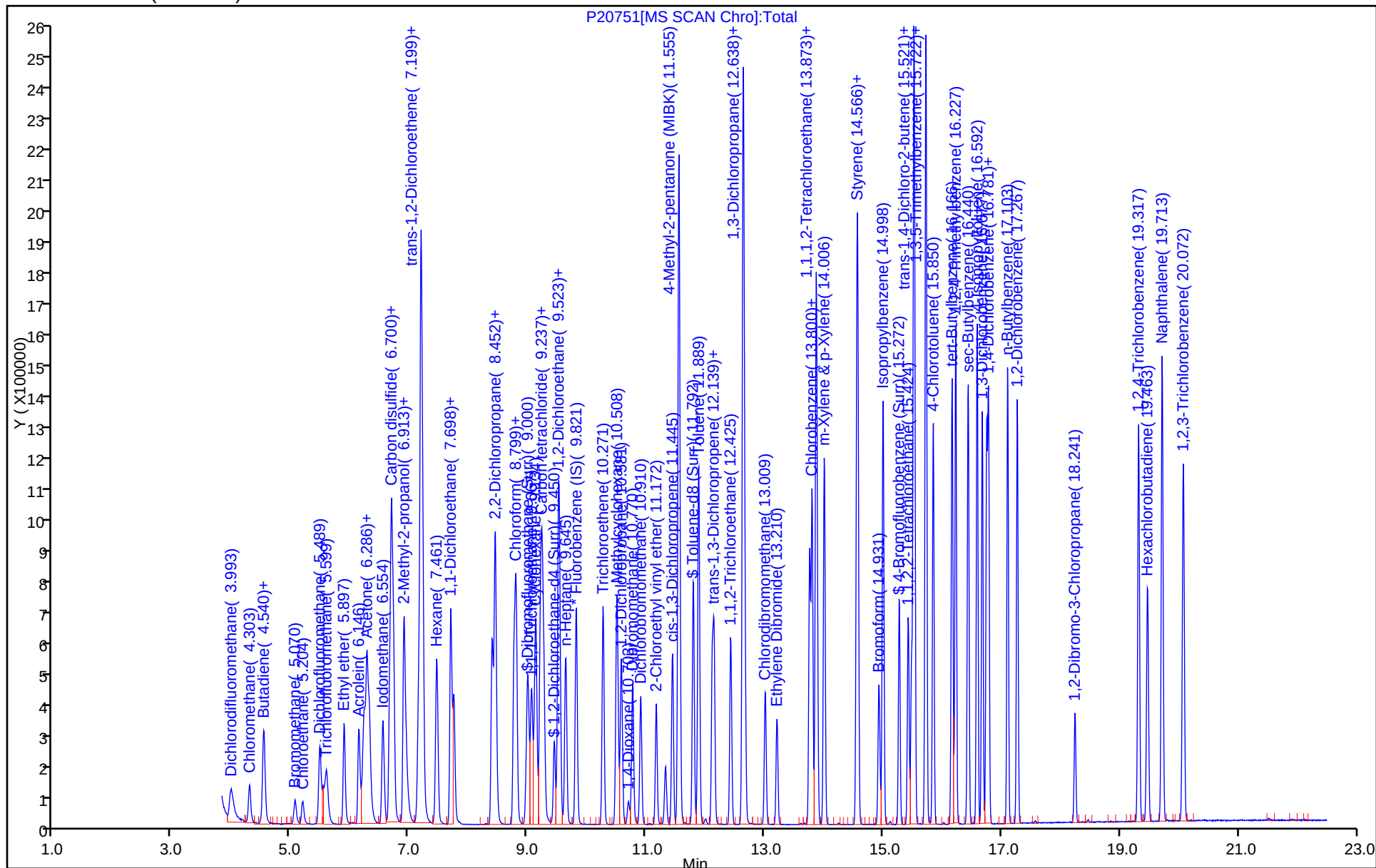
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P20751.D

Injection Date: 30-Nov-2016 13:08:30

Instrument ID: HP5973P

Lims ID: CCVIS

Client ID:

Operator ID: RF

ALS Bottle#:

3

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

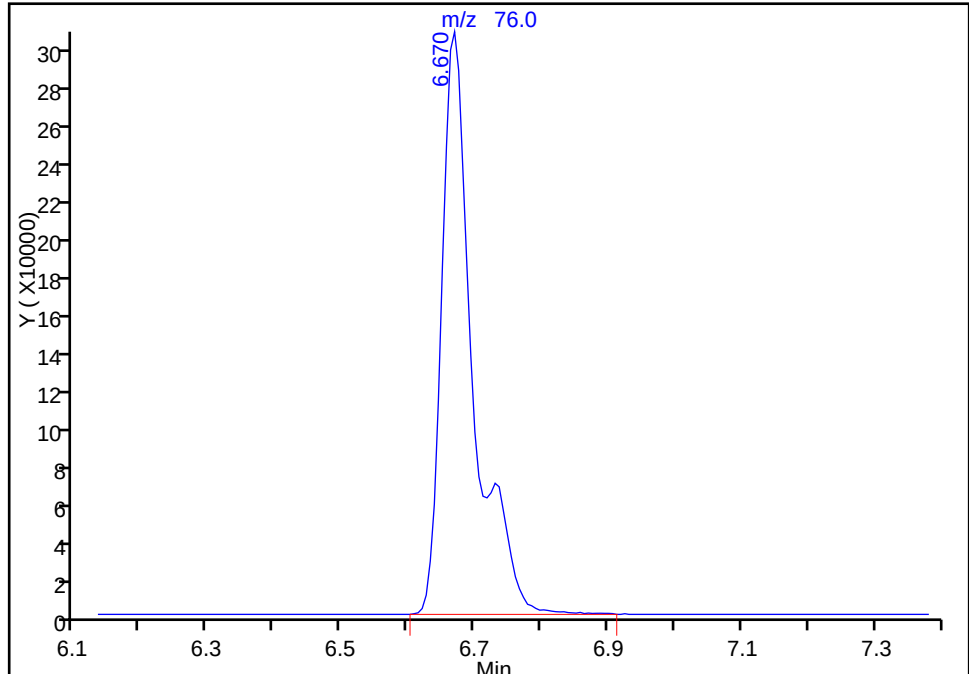
Detector: MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

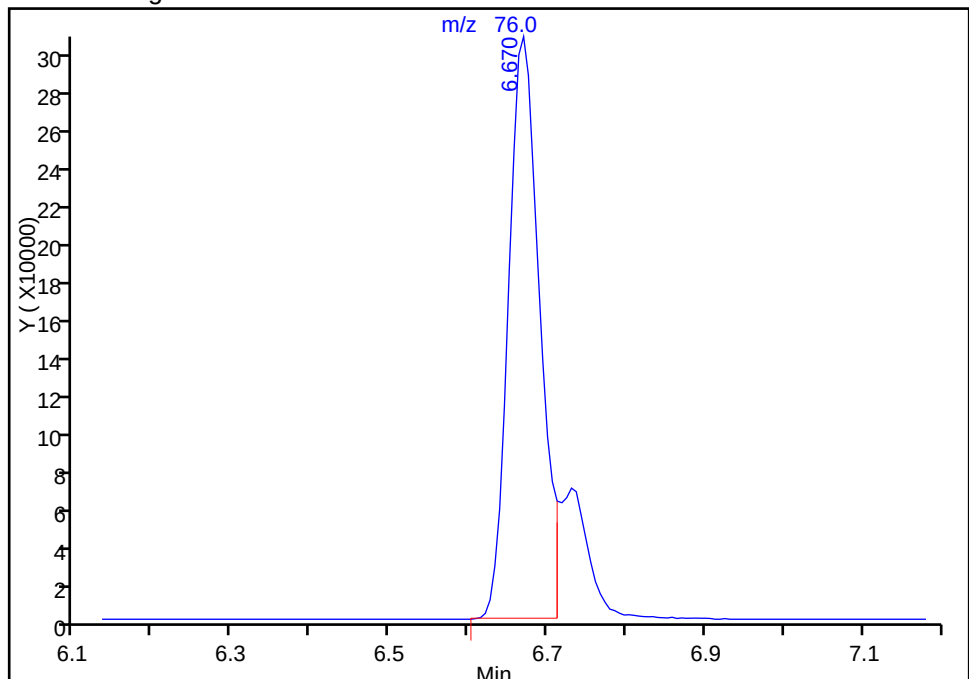
RT: 6.67
Area: 1011768
Amount: 28.470737
Amount Units: ug/L

Processing Integration Results



RT: 6.67
Area: 839272
Amount: 23.616770
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 30-Nov-2016 13:56:59

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1

SDG No.: _____

Lab Sample ID: CCVIS 480-334557/2 Calibration Date: 12/03/2016 09:24

Instrument ID: HP5973P Calib Start Date: 11/29/2016 14:39

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/29/2016 17:23

Lab File ID: P20890.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	1.999	1.737	0.1000	21.7	25.0	-13.1	50.0
Chloromethane	Ave	1.669	1.412	0.1000	21.1	25.0	-15.4	20.0
Vinyl chloride	Ave	1.276	1.046	0.1000	20.5	25.0	-18.1	20.0
Butadiene	Ave	1.324	1.290		24.4	25.0	-2.6	20.0
Bromomethane	Lin1		1.391	0.1000	30.1	25.0	20.3	50.0
Chloroethane	Ave	1.038	1.297	0.1000	31.3	25.0	25.0	50.0
Dichlorofluoromethane	Ave	2.983	3.215		26.9	25.0	7.8	20.0
Trichlorofluoromethane	Ave	2.929	2.872	0.1000	24.5	25.0	-2.0	20.0
Ethyl ether	Ave	1.879	1.720		22.9	25.0	-8.5	20.0
Acrolein	Ave	0.5283	0.5290		125	125	0.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.004	1.631	0.1000	20.3	25.0	-18.6	20.0
1,1-Dichloroethene	Ave	1.870	1.529	0.1000	20.4	25.0	-18.3	20.0
Acetone	Ave	0.8282	1.006	0.1000	152	125	21.4	50.0
Iodomethane	Ave	3.836	3.337		21.7	25.0	-13.0	20.0
Carbon disulfide	Ave	5.543	4.573	0.1000	20.6	25.0	-17.5	20.0
Methyl acetate	Ave	2.249	2.183	0.1000	121	125	-2.9	50.0
Allyl chloride	Ave	2.996	2.788		23.3	25.0	-7.0	20.0
Methylene Chloride	Lin1		1.812	0.1000	23.8	25.0	-4.9	20.0
2-Methyl-2-propanol	Ave	0.3970	0.3794		239	250	-4.4	50.0
Methyl tert-butyl ether	Ave	5.247	5.007	0.1000	23.9	25.0	-4.6	20.0
Acrylonitrile	Ave	1.213	1.193		246	250	-1.6	20.0
trans-1,2-Dichloroethene	Ave	1.938	1.721	0.1000	22.2	25.0	-11.2	20.0
Hexane	Ave	2.867	2.253		19.6	25.0	-21.4*	20.0
Vinyl acetate	Ave	4.619	4.836		52.3	50.0	4.7	20.0
1,1-Dichloroethane	Ave	3.629	3.206	0.2000	22.1	25.0	-11.6	20.0
2-Butanone (MEK)	Ave	1.406	1.508	0.1000	134	125	7.2	20.0
2,2-Dichloropropane	Ave	2.505	2.282		22.8	25.0	-8.9	20.0
cis-1,2-Dichloroethene	Ave	2.108	2.028	0.1000	24.1	25.0	-3.8	20.0
Chlorobromomethane	Ave	1.172	1.060		22.6	25.0	-9.5	20.0
Tetrahydrofuran	Ave	0.9655	0.8862		45.9	50.0	-8.2	20.0
Chloroform	Ave	3.386	3.064	0.2000	22.6	25.0	-9.5	20.0
1,1,1-Trichloroethane	Ave	2.938	2.634	0.1000	22.4	25.0	-10.3	20.0
Cyclohexane	Ave	3.810	3.330	0.1000	21.8	25.0	-12.6	20.0
Isobutyl alcohol	Ave	0.1361	0.1496		687	625	10.0	50.0
1,1-Dichloropropene	Ave	2.272	2.001		22.0	25.0	-11.9	20.0
Carbon tetrachloride	Ave	2.690	2.354	0.1000	21.9	25.0	-12.5	20.0
Benzene	Ave	6.540	5.948	0.5000	22.7	25.0	-9.1	20.0
1,2-Dichloroethane	Ave	2.961	2.808	0.1000	23.7	25.0	-5.2	20.0
n-Heptane	Ave	2.336	1.942		20.8	25.0	-16.9	20.0
Trichloroethene	Ave	1.955	1.745	0.2000	22.3	25.0	-10.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-334557/2 Calibration Date: 12/03/2016 09:24
 Instrument ID: HP5973P Calib Start Date: 11/29/2016 14:39
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/29/2016 17:23
 Lab File ID: P20890.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	2.897	2.409	0.1000	20.8	25.0	-16.9	20.0
1,2-Dichloropropane	Ave	1.923	1.774	0.1000	23.1	25.0	-7.8	20.0
1,4-Dioxane	Ave	0.0122	0.0121		495	500	-0.9	50.0
Dibromomethane	Ave	1.242	1.221	0.1000	24.6	25.0	-1.7	20.0
Bromodichloromethane	Ave	2.284	2.194	0.2000	24.0	25.0	-4.0	20.0
2-Chloroethyl vinyl ether	Ave	1.332	1.348		25.3	25.0	1.2	20.0
cis-1,3-Dichloropropene	Ave	2.539	2.430	0.2000	23.9	25.0	-4.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.284	1.341	0.1000	131	125	4.5	20.0
Toluene	Ave	1.930	1.778	0.4000	23.0	25.0	-7.8	20.0
Ethyl methacrylate	Lin1		1.051		25.3	25.0	1.1	20.0
trans-1,3-Dichloropropene	Ave	1.137	1.138	0.1000	25.0	25.0	0.0	20.0
1,1,2-Trichloroethane	Ave	0.6797	0.6565	0.1000	24.1	25.0	-3.4	20.0
Tetrachloroethene	Ave	1.067	0.9714	0.2000	22.8	25.0	-8.9	20.0
2-Hexanone	Ave	0.8598	0.9495	0.1000	138	125	10.4	20.0
1,3-Dichloropropane	Ave	1.256	1.213		24.1	25.0	-3.4	20.0
Dibromochloromethane	Ave	0.9277	0.9210	0.1000	24.8	25.0	-0.7	20.0
1,2-Dibromoethane	Ave	0.9571	0.9396		24.5	25.0	-1.8	20.0
Chlorobenzene	Ave	2.516	2.329	0.5000	23.1	25.0	-7.4	20.0
Ethylbenzene	Ave	3.500	3.327	0.1000	23.8	25.0	-5.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9790	0.9320		23.8	25.0	-4.8	20.0
m,p-Xylene	Ave	1.542	1.436	0.1000	23.3	25.0	-6.9	20.0
o-Xylene	Ave	1.548	1.467	0.3000	23.7	25.0	-5.3	20.0
Styrene	Ave	2.210	2.211	0.3000	25.0	25.0	0.0	20.0
Bromoform	Ave	0.7093	0.7511	0.1000	26.5	25.0	5.9	50.0
Isopropylbenzene	Ave	2.786	2.608	0.1000	23.4	25.0	-6.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9918	0.9381	0.3000	23.6	25.0	-5.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3053	0.1226		10.0	25.0	-59.8*	50.0
1,2,3-Trichloropropane	Ave	0.3115	0.3045		24.4	25.0	-2.3	20.0
Bromobenzene	Ave	0.9737	0.9171		23.5	25.0	-5.8	20.0
N-Propylbenzene	Ave	3.260	2.927		22.5	25.0	-10.2	20.0
2-Chlorotoluene	Ave	0.8076	0.7581		23.5	25.0	-6.1	20.0
1,3,5-Trimethylbenzene	Ave	2.368	2.221		23.4	25.0	-6.2	20.0
4-Chlorotoluene	Ave	0.8274	0.7865		23.8	25.0	-4.9	20.0
tert-Butylbenzene	Ave	0.6026	0.5527		22.9	25.0	-8.3	20.0
1,2,4-Trimethylbenzene	Ave	2.482	2.335		23.5	25.0	-5.9	20.0
sec-Butylbenzene	Ave	3.003	2.745		22.8	25.0	-8.6	20.0
4-Isopropyltoluene	Ave	2.877	2.665		23.2	25.0	-7.3	20.0
1,3-Dichlorobenzene	Ave	1.718	1.604	0.6000	23.4	25.0	-6.6	20.0
1,4-Dichlorobenzene	Ave	1.760	1.613	0.5000	22.9	25.0	-8.4	20.0
n-Butylbenzene	Ave	2.285	2.068		22.6	25.0	-9.5	20.0
1,2-Dichlorobenzene	Ave	1.742	1.624	0.4000	23.3	25.0	-6.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-334557/2 Calibration Date: 12/03/2016 09:24
 Instrument ID: HP5973P Calib Start Date: 11/29/2016 14:39
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 11/29/2016 17:23
 Lab File ID: P20890.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	0.2158	0.2044	0.0500	23.7	25.0	-5.3	50.0
1,2,4-Trichlorobenzene	Ave	1.440	1.345	0.2000	23.4	25.0	-6.6	20.0
Hexachlorobutadiene	Ave	0.5900	0.5207		22.1	25.0	-11.7	20.0
Naphthalene	Ave	3.921	3.870		24.7	25.0	-1.3	20.0
1,2,3-Trichlorobenzene	Ave	1.392	1.297		23.3	25.0	-6.9	20.0
Dibromofluoromethane (Surr)	Ave	1.388	1.413		25.4	25.0	1.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7789	0.8025		25.8	25.0	3.0	20.0
Toluene-d8 (Surr)	Ave	2.172	2.240		25.8	25.0	3.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8960	0.9523		26.6	25.0	6.3	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20890.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 03-Dec-2016 09:24:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0058849-002
 Operator ID: RF Instrument ID: HP5973P
 Sublist: chrom-P-8260H2O*sub11
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 09:59:15 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK028

First Level Reviewer: farrellr

Date: 03-Dec-2016 09:57:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.815	9.815	0.000	99	133009	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.757	13.757	0.000	84	276918	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.744	16.744	0.000	92	368409	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.006	9.006	0.000	94	187918	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.444	9.444	0.000	0	106744	25.0	25.8	
\$ 5 Toluene-d8 (Surr)	98	11.792	11.792	0.000	93	620355	25.0	25.8	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	98	263708	25.0	26.6	
10 Dichlorodifluoromethane	85	3.987	3.987	0.000	99	231051	25.0	21.7	
11 Chloromethane	50	4.304	4.304	0.000	99	187800	25.0	21.1	
17 Vinyl chloride	62	4.529	4.529	0.000	91	139102	25.0	20.5	
144 Butadiene	54	4.541	4.541	0.000	89	171563	25.0	24.4	
12 Bromomethane	94	5.082	5.082	0.000	90	185045	25.0	30.1	
13 Chloroethane	64	5.210	5.210	0.000	98	172567	25.0	31.3	
19 Dichlorofluoromethane	67	5.496	5.496	0.000	97	427653	25.0	26.9	
14 Trichlorofluoromethane	101	5.605	5.605	0.000	98	381944	25.0	24.5	
20 Ethyl ether	59	5.897	5.897	0.000	97	228801	25.0	22.9	
22 Acrolein	56	6.147	6.147	0.000	99	351796	125.0	125.2	
16 1,1,2-Trichloro-1,2,2-trif	101	6.244	6.244	0.000	88	216886	25.0	20.3	
25 1,1-Dichloroethene	96	6.287	6.287	0.000	96	203329	25.0	20.4	
24 Acetone	43	6.323	6.323	0.000	100	668780	125.0	151.8	
18 Iodomethane	142	6.554	6.554	0.000	99	443912	25.0	21.7	
27 Carbon disulfide	76	6.670	6.670	0.000	100	608208	25.0	20.6	M
30 Methyl acetate	43	6.694	6.694	0.000	99	1452007	125.0	121.3	
28 3-Chloro-1-propene	41	6.731	6.731	0.000	83	370764	25.0	23.3	
31 Methylene Chloride	84	6.907	6.907	0.000	97	241001	25.0	23.8	
33 2-Methyl-2-propanol	59	6.926	6.926	0.000	99	504647	250.0	238.9	
32 Methyl tert-butyl ether	73	7.163	7.163	0.000	98	665962	25.0	23.9	
34 Acrylonitrile	53	7.193	7.193	0.000	99	1587340	250.0	245.9	
35 trans-1,2-Dichloroethene	96	7.230	7.230	0.000	96	228951	25.0	22.2	
36 Hexane	57	7.461	7.461	0.000	91	299731	25.0	19.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
38 Vinyl acetate	43	7.698	7.698	0.000	97	1286349	50.0	52.3	
40 1,1-Dichloroethane	63	7.747	7.747	0.000	97	426469	25.0	22.1	
44 2-Butanone (MEK)	43	8.392	8.392	0.000	99	1002722	125.0	134.0	
43 cis-1,2-Dichloroethene	96	8.446	8.446	0.000	84	269687	25.0	24.1	
45 2,2-Dichloropropane	77	8.446	8.446	0.000	57	303523	25.0	22.8	
50 Chlorobromomethane	128	8.763	8.763	0.000	97	141025	25.0	22.6	
51 Tetrahydrofuran	42	8.787	8.787	0.000	92	235731	50.0	45.9	
49 Chloroform	83	8.799	8.799	0.000	95	407503	25.0	22.6	
52 1,1,1-Trichloroethane	97	9.061	9.061	0.000	98	350346	25.0	22.4	
54 Cyclohexane	56	9.128	9.128	0.000	93	442924	25.0	21.8	
53 Isobutyl alcohol	43	9.207	9.207	0.000	97	497600	625.0	687.3	
56 1,1-Dichloropropene	75	9.231	9.231	0.000	94	266215	25.0	22.0	
55 Carbon tetrachloride	117	9.268	9.268	0.000	95	313062	25.0	21.9	
57 Benzene	78	9.517	9.517	0.000	97	791082	25.0	22.7	
60 1,2-Dichloroethane	62	9.542	9.542	0.000	96	373493	25.0	23.7	
59 n-Heptane	43	9.639	9.639	0.000	95	258288	25.0	20.8	
62 Trichloroethene	95	10.272	10.272	0.000	93	232096	25.0	22.3	
64 Methylcyclohexane	83	10.503	10.503	0.000	94	320378	25.0	20.8	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	96	235898	25.0	23.1	
68 1,4-Dioxane	88	10.703	10.703	0.000	98	66964	500.0	495.4	
69 Dibromomethane	93	10.770	10.770	0.000	90	162385	25.0	24.6	
70 Dichlorobromomethane	83	10.904	10.904	0.000	99	291796	25.0	24.0	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	91	179237	25.0	25.3	
73 cis-1,3-Dichloropropene	75	11.440	11.440	0.000	93	323151	25.0	23.9	
75 4-Methyl-2-pentanone (MIBK)	43	11.549	11.549	0.000	96	1857400	125.0	130.6	
76 Toluene	92	11.884	11.884	0.000	98	492444	25.0	23.0	
77 Ethyl methacrylate	69	12.115	12.115	0.000	91	290936	25.0	25.3	
78 trans-1,3-Dichloropropene	75	12.145	12.145	0.000	90	315041	25.0	25.0	
79 1,1,2-Trichloroethane	83	12.425	12.425	0.000	92	181792	25.0	24.1	
80 Tetrachloroethene	166	12.632	12.632	0.000	96	268993	25.0	22.8	
83 2-Hexanone	43	12.638	12.638	0.000	96	1314646	125.0	138.0	
82 1,3-Dichloropropane	76	12.662	12.662	0.000	96	335884	25.0	24.1	
81 Chlorodibromomethane	129	13.009	13.009	0.000	90	255032	25.0	24.8	
85 Ethylene Dibromide	107	13.210	13.210	0.000	99	260180	25.0	24.5	
87 Chlorobenzene	112	13.800	13.800	0.000	97	644991	25.0	23.1	
89 Ethylbenzene	91	13.861	13.861	0.000	97	921263	25.0	23.8	
88 1,1,1,2-Tetrachloroethane	131	13.879	13.879	0.000	94	258079	25.0	23.8	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	397531	25.0	23.3	
93 o-Xylene	106	14.554	14.554	0.000	96	406250	25.0	23.7	
94 Styrene	104	14.573	14.573	0.000	95	612143	25.0	25.0	
92 Bromoform	173	14.925	14.925	0.000	98	207978	25.0	26.5	
95 Isopropylbenzene	105	14.998	14.998	0.000	95	960797	25.0	23.4	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	96	345593	25.0	23.6	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	79	45171	25.0	10.0	
101 1,2,3-Trichloropropane	110	15.516	15.516	0.000	80	112178	25.0	24.4	
100 Bromobenzene	156	15.516	15.516	0.000	88	337855	25.0	23.5	
99 N-Propylbenzene	91	15.528	15.528	0.000	97	1078513	25.0	22.5	
103 2-Chlorotoluene	126	15.716	15.716	0.000	97	279294	25.0	23.5	
102 1,3,5-Trimethylbenzene	105	15.722	15.722	0.000	97	818406	25.0	23.4	
105 4-Chlorotoluene	126	15.844	15.844	0.000	96	289750	25.0	23.8	
106 tert-Butylbenzene	134	16.167	16.167	0.000	91	203601	25.0	22.9	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	96	860378	25.0	23.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	16.434	16.434	0.000	94	1011108	25.0	22.8	
112 4-Isopropyltoluene	119	16.586	16.586	0.000	97	981953	25.0	23.2	
110 1,3-Dichlorobenzene	146	16.671	16.671	0.000	99	591056	25.0	23.4	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	96	594083	25.0	22.9	
115 n-Butylbenzene	91	17.103	17.103	0.000	97	762046	25.0	22.6	
116 1,2-Dichlorobenzene	146	17.262	17.262	0.000	99	598154	25.0	23.3	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	91	75285	25.0	23.7	
119 1,2,4-Trichlorobenzene	180	19.318	19.318	0.000	94	495507	25.0	23.4	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	95	191843	25.0	22.1	
121 Naphthalene	128	19.713	19.713	0.000	97	1425582	25.0	24.7	
122 1,2,3-Trichlorobenzene	180	20.066	20.066	0.000	96	477743	25.0	23.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00193

Amount Added: 12.50

Units: uL

8260 CORP mix_00086

Amount Added: 12.50

Units: uL

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr_00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973P\\20161203-58849.b\\P20890.D

Injection Date: 03-Dec-2016 09:24:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

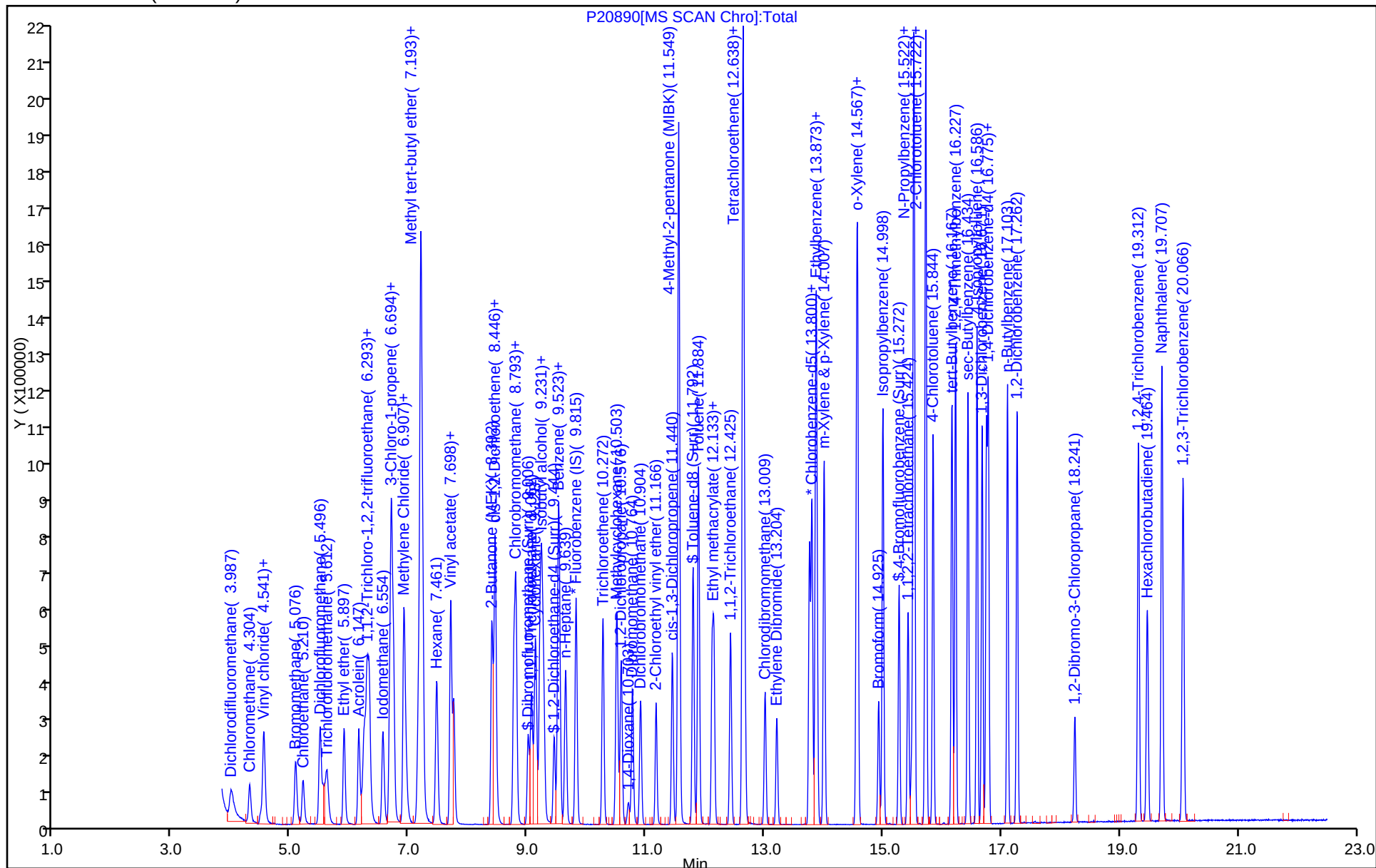
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20890.D

Injection Date: 03-Dec-2016 09:24:30

Instrument ID: HP5973P

Lims ID: CCVIS

Client ID:

Operator ID: RF

ALS Bottle#:

2

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)

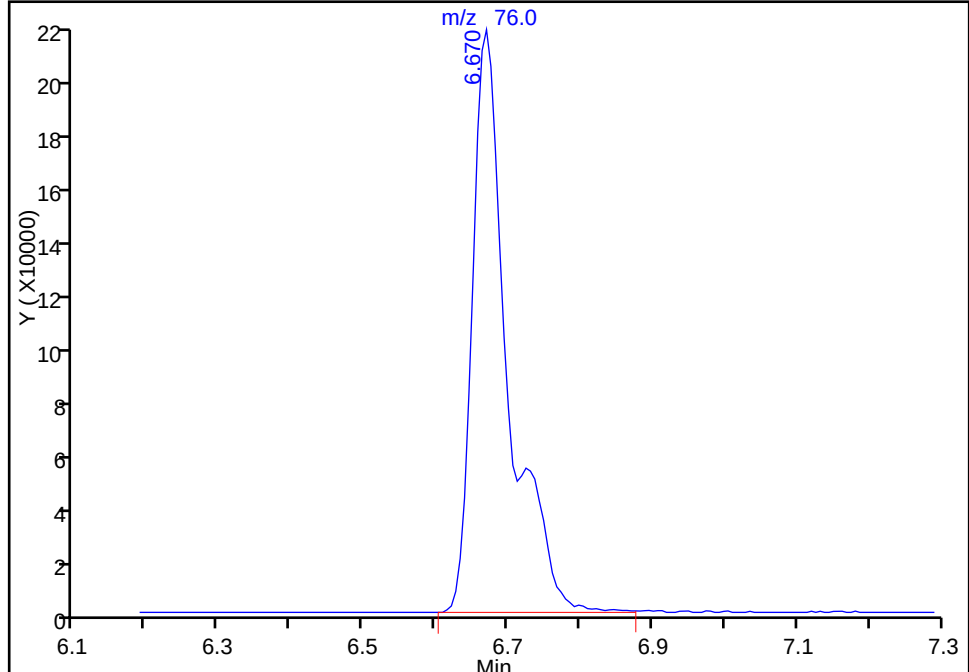
Detector: MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

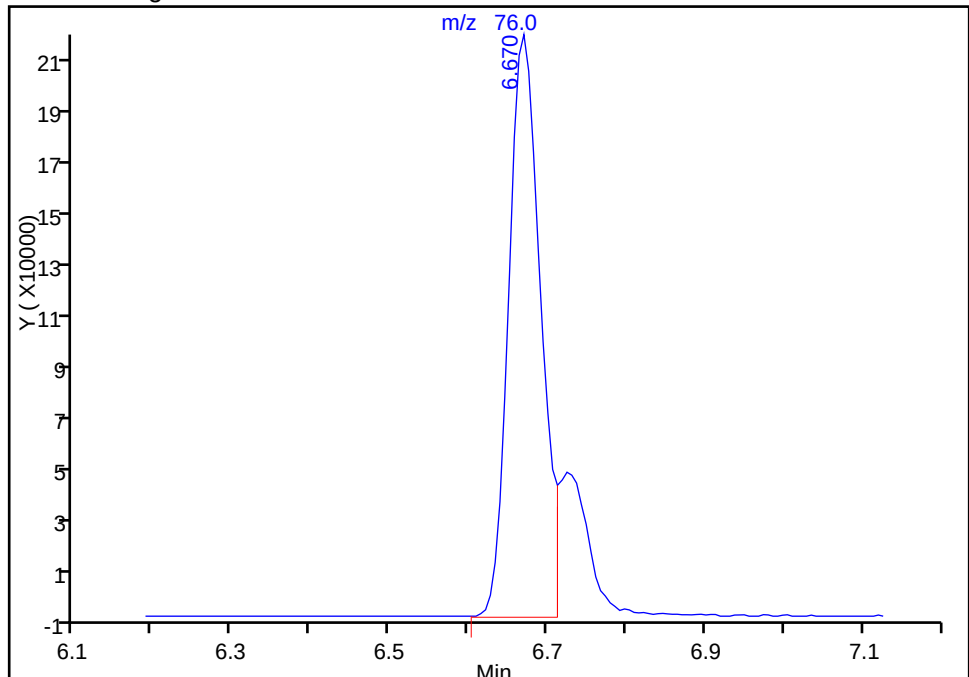
RT: 6.67
Area: 736935
Amount: 24.990195
Amount Units: ug/L

Processing Integration Results



RT: 6.67
Area: 608208
Amount: 20.624935
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 03-Dec-2016 09:57:10

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20727.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 29-Nov-2016 13:45:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0058712-003
Operator ID: RF Instrument ID: HP5973P
Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Nov-2016 12:11:44 Calib Date: 29-Nov-2016 21:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: farrellr

Date: 30-Nov-2016 09:21:28

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

\$ 21 BFB	95	7.134	7.134	0.000	0	90186	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00057

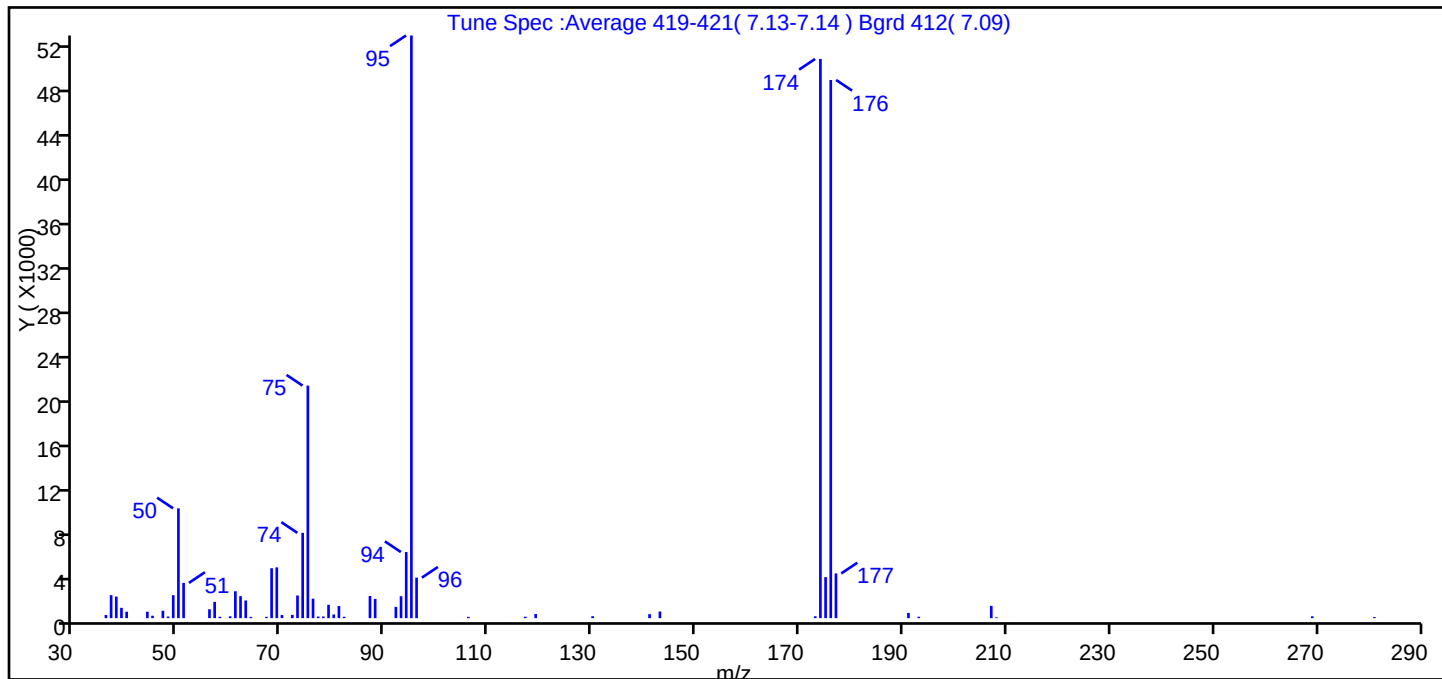
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20727.D
Injection Date: 29-Nov-2016 13:45:30 Instrument ID: HP5973P
Lims ID: BFB
Client ID:
Operator ID: RF ALS Bottle#: 3 Worklist Smp#: 3
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	18.8
75	30 to 60% of m/z 95	39.9
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.3 (0.3)
174	50 to 120% of m/z 95	96.0
175	5 to 9% of m/z 174	7.0 (7.3)
176	Greater than 95% but less than 101% of m/z 174	92.4 (96.2)
177	5 to 9% of m/z 176	7.7 (8.3)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\IP20727.D\IP-8260H2O.rslt\spectra.d
Injection Date: 29-Nov-2016 13:45:30
Spectrum: Tune Spec :Average 419-421(7.13-7.14) Bgrd 412(7.09)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	280	60.00	165	78.00	143	130.00	176
37.00	2072	61.00	2429	79.00	1203	141.00	359
38.00	1946	62.00	1982	80.00	330	143.00	598
39.00	931	63.00	1591	81.00	1091	173.00	167
40.00	582	64.00	116	82.00	121	174.00	50456
44.00	579	67.00	117	87.00	1998	175.00	3702
45.00	218	68.00	4503	88.00	1734	176.00	48560
47.00	667	69.00	4582	92.00	1015	177.00	4035
48.00	144	70.00	282	93.00	1981	191.00	471
49.00	2072	72.00	295	94.00	5964	193.00	125
50.00	9909	73.00	2041	95.00	52576	207.00	1107
51.00	3181	74.00	7699	96.00	3655	208.00	74
56.00	803	75.00	20984	106.00	116	269.00	165
57.00	1471	76.00	1757	117.00	127	281.00	97
58.00	123	77.00	140	119.00	374		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P20750.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Nov-2016 12:41:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0058759-002
Operator ID: RF Instrument ID: HP5973P
Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Nov-2016 12:52:36 Calib Date: 29-Nov-2016 21:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: farrellr

Date: 30-Nov-2016 12:52:36

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

\$ 21 BFB	95	7.152	7.152	0.000	0	85968	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00057

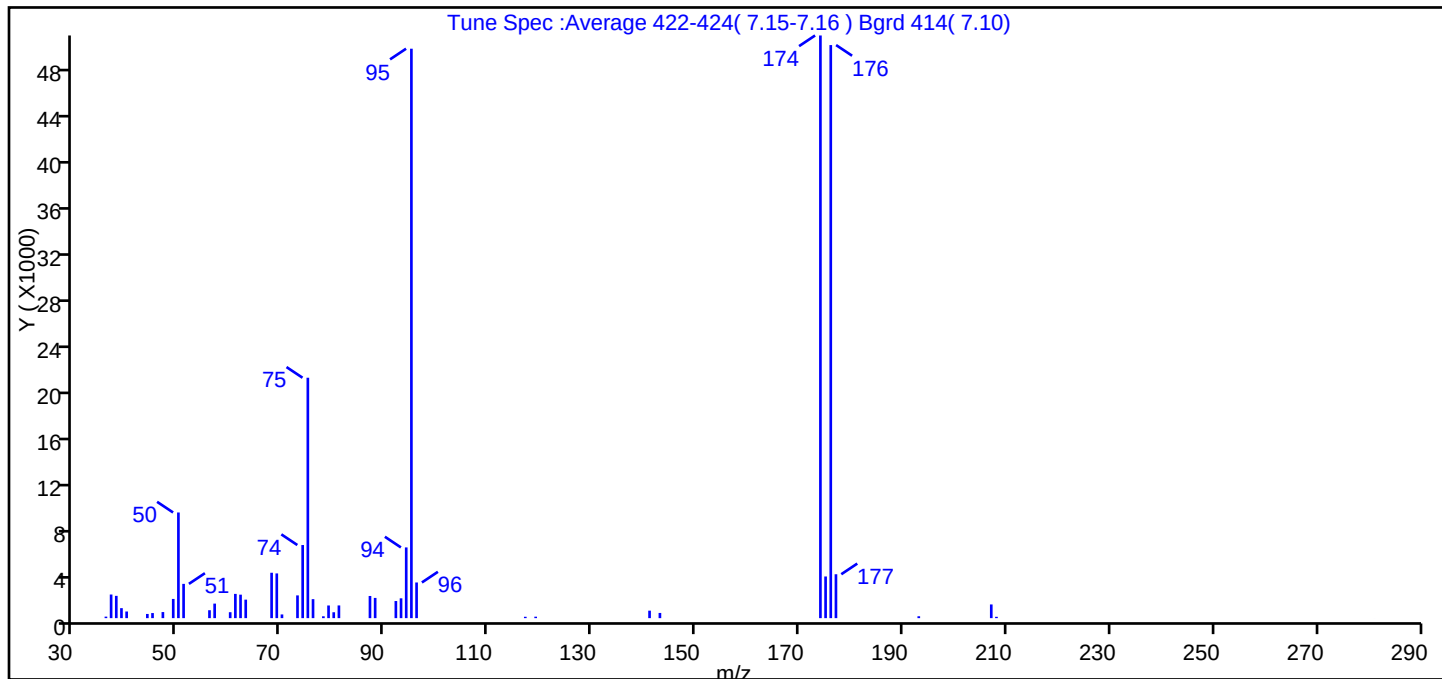
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P20750.D
Injection Date: 30-Nov-2016 12:41:30 Instrument ID: HP5973P
Lims ID: BFB
Client ID:
Operator ID: RF ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: P-8260H2O Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

\$ 21 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.6
75	30 to 60% of m/z 95	42.2
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	102.3
175	5 to 9% of m/z 174	7.3 (7.2)
176	Greater than 95% but less than 101% of m/z 174	100.6 (98.4)
177	5 to 9% of m/z 176	7.7 (7.7)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\IP-8260H2O.rslt\spectra.d
Injection Date: 30-Nov-2016 12:41:30
Spectrum: Tune Spec :Average 422-424(7.15-7.16) Bgrd 414(7.10)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	130	57.00	1248	78.00	159	119.00	125
37.00	2028	60.00	510	79.00	1087	141.00	642
38.00	1913	61.00	2082	80.00	506	143.00	446
39.00	858	62.00	2016	81.00	1091	174.00	50024
40.00	571	63.00	1589	87.00	1903	175.00	3577
44.00	360	68.00	3897	88.00	1737	176.00	49200
45.00	437	69.00	3839	92.00	1469	177.00	3769
47.00	522	70.00	318	93.00	1702	193.00	162
49.00	1649	73.00	1953	94.00	6072	207.00	1176
50.00	9072	74.00	6277	95.00	48888	208.00	115
51.00	2943	75.00	20640	96.00	3062	281.00	1
56.00	680	76.00	1631	117.00	118		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20889.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 03-Dec-2016 08:51:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0058849-001
Operator ID: RF Instrument ID: HP5973P
Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
Limit Group: MV - 8260C ICAL
Last Update: 03-Dec-2016 09:05:15 Calib Date: 29-Nov-2016 21:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: farrellr

Date: 03-Dec-2016 09:05:15

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

\$ 21 BFB	95	7.152	7.152	0.000	0	72807	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00057

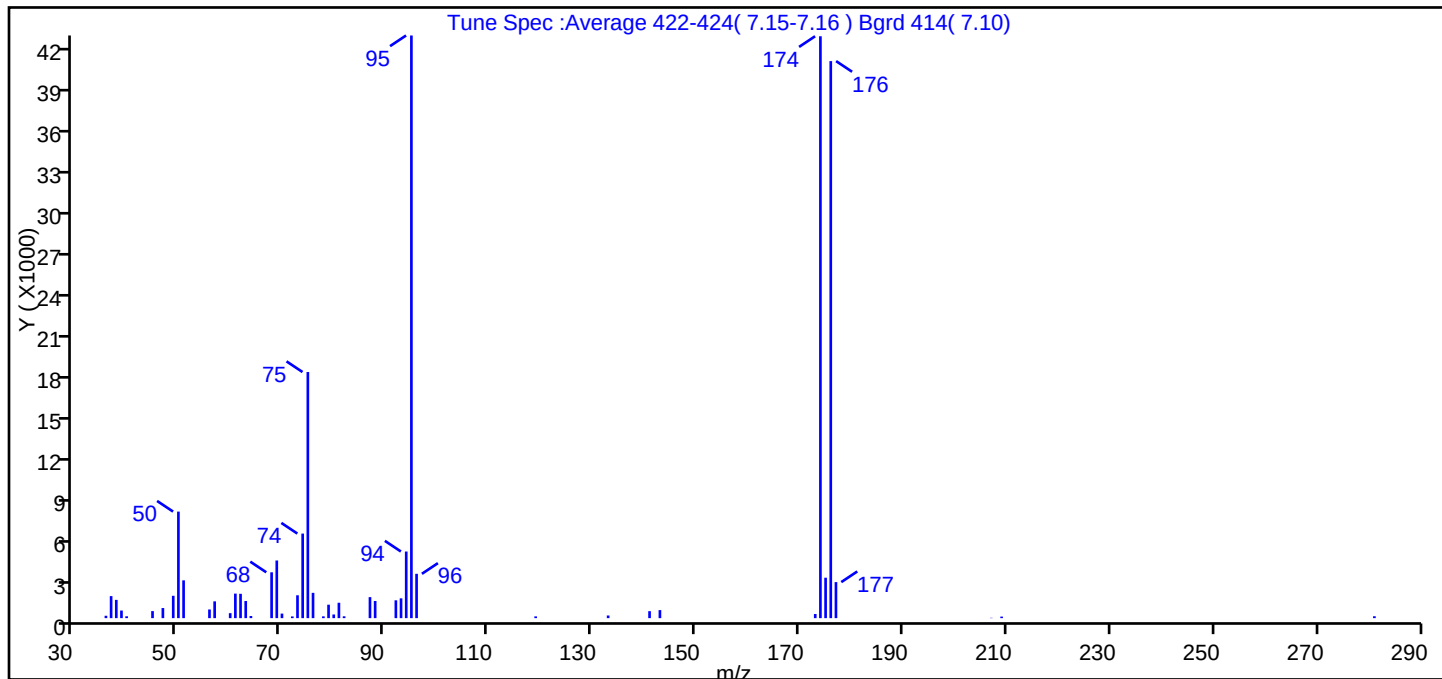
Amount Added: 1.00

Units: uL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20889.D
Injection Date: 03-Dec-2016 08:51:30 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	18.3
75	30 to 60% of m/z 95	42.2
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	0.7 (0.7)
174	50 to 120% of m/z 95	99.9
175	5 to 9% of m/z 174	6.9 (6.9)
176	Greater than 95% but less than 101% of m/z 174	95.6 (95.7)
177	5 to 9% of m/z 176	6.2 (6.5)

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\IP-8260H2O.rslt\spectra.d
Injection Date: 03-Dec-2016 08:51:30
Spectrum: Tune Spec :Average 422-424(7.15-7.16) Bgrd 414(7.10)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	172	61.00	1770	79.00	970	141.00	503
37.00	1589	62.00	1754	80.00	263	143.00	580
38.00	1317	63.00	1235	81.00	1110	173.00	297
39.00	549	64.00	153	82.00	133	174.00	41952
40.00	133	68.00	3305	87.00	1516	175.00	2915
45.00	508	69.00	4157	88.00	1237	176.00	40160
47.00	728	70.00	328	92.00	1286	177.00	2598
49.00	1611	72.00	123	93.00	1428	207.00	23
50.00	7681	73.00	1649	94.00	4804	209.00	111
51.00	2725	74.00	6097	95.00	42008	281.00	136
56.00	626	75.00	17744	96.00	3196		
57.00	1210	76.00	1824	119.00	126		
60.00	359	78.00	128	133.00	191		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-334061/7

Matrix: Water Lab File ID: P20757.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 11/30/2016 16:52

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.: 334061 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
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
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
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
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-334061/7
 Matrix: Water Lab File ID: P20757.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/30/2016 16:52
 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.: 334061 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)	98		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P20757.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 30-Nov-2016 16:52:30 ALS Bottle#: 9 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0058759-007
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 17:19:00 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: farrellr

Date: 30-Nov-2016 17:19:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	99	148397	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.763	0.000	85	309953	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	93	420227	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.018	9.018	0.000	95	203279	25.0	24.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.456	9.456	0.000	0	112765	25.0	24.4	
\$ 5 Toluene-d8 (Surr)	98	11.798	11.798	0.000	93	663082	25.0	24.6	
\$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.278	0.000	97	283863	25.0	25.6	
10 Dichlorodifluoromethane	85		3.993					ND	
15 Chlorodifluoromethane	51		4.018					ND	
11 Chloromethane	50		4.303					ND	
17 Vinyl chloride	62		4.528					ND	
144 Butadiene	54		4.547					ND	
12 Bromomethane	94		5.070					ND	
13 Chloroethane	64		5.204					ND	
19 Dichlorofluoromethane	67		5.483					ND	
14 Trichlorofluoromethane	101		5.593					ND	
141 Ethanol	45		5.800					ND	
20 Ethyl ether	59		5.897					ND	
26 Propene oxide	58		6.055					ND	
22 Acrolein	56		6.146					ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.238					ND	
25 1,1-Dichloroethene	96		6.286					ND	
24 Acetone	43		6.323					ND	
23 Isopropyl alcohol	45		6.445					ND	
18 Iodomethane	142		6.554					ND	
27 Carbon disulfide	76		6.670					ND	
30 Methyl acetate	43		6.700					ND	
28 3-Chloro-1-propene	41		6.731					ND	
29 Acetonitrile	40		6.737					ND	
31 Methylene Chloride	84		6.907					ND	
33 2-Methyl-2-propanol	59		6.937					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		7.162					ND	
34 Acrylonitrile	53		7.199					ND	
35 trans-1,2-Dichloroethene	96		7.229					ND	
36 Hexane	57		7.467					ND	
37 Isopropyl ether	45		7.686					ND	
38 Vinyl acetate	43		7.698					ND	
40 1,1-Dichloroethane	63		7.753					ND	
39 1,1-Dimethoxyethane	75		7.783					ND	
41 2-Chloro-1,3-butadiene	53		7.850					ND	
42 Tert-butyl ethyl ether	59		8.124					ND	
44 2-Butanone (MEK)	43		8.397					ND	
46 Ethyl acetate	43		8.398					ND	
43 cis-1,2-Dichloroethene	96		8.452					ND	
45 2,2-Dichloropropane	77		8.458					ND	
47 Propionitrile	54		8.532					ND	
48 Methacrylonitrile	41		8.696					ND	
50 Chlorobromomethane	128		8.769					ND	
51 Tetrahydrofuran	42		8.793					ND	
49 Chloroform	83		8.805					ND	
52 1,1,1-Trichloroethane	97		9.061					ND	
54 Cyclohexane	56		9.134					ND	
53 Isobutyl alcohol	43		9.213					ND	
56 1,1-Dichloropropene	75		9.237					ND	
55 Carbon tetrachloride	117		9.273					ND	
140 t-Amyl alcohol	59		9.353					ND	
146 Isooctane	57		9.481					ND	
57 Benzene	78		9.517					ND	
58 Tert-amyl methyl ether	73		9.523					ND	
60 1,2-Dichloroethane	62		9.541					ND	
59 n-Heptane	43		9.645					ND	
66 2-Methylthiophene	97		9.687					ND	
67 3-Methylthiophene	97		9.894					ND	
1 1,4-Difluorobenzene	114		9.900					ND	
61 n-Butanol	56		10.010					ND	
145 Ethyl acrylate	55		10.253					ND	
62 Trichloroethene	95		10.271					ND	
64 Methylcyclohexane	83		10.502					ND	
65 Methyl methacrylate	41		10.551					ND	
63 1,2-Dichloropropane	63		10.581					ND	
68 1,4-Dioxane	88		10.697					ND	
69 Dibromomethane	93		10.770					ND	
70 Dichlorobromomethane	83		10.910					ND	
71 2-Chloroethyl vinyl ether	63		11.172					ND	
72 2-Nitropropane	43		11.178					ND	
74 Epichlorohydrin	57		11.342					ND	
73 cis-1,3-Dichloropropene	75		11.445					ND	
75 4-Methyl-2-pentanone (MIBK)	43		11.555					ND	
76 Toluene	92		11.889					ND	
77 Ethyl methacrylate	69		12.114					ND	
78 trans-1,3-Dichloropropene	75		12.145					ND	
79 1,1,2-Trichloroethane	83		12.425					ND	
80 Tetrachloroethene	166		12.632					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		12.644					ND	
82 1,3-Dichloropropane	76		12.668					ND	
149 n-Butyl acetate	43		12.729					ND	
81 Chlorodibromomethane	129		13.009					ND	
85 Ethylene Dibromide	107		13.210					ND	
84 3-Chlorobenzotrifluoride	180		13.611					ND	
139 1-Chlorohexane	55		13.623					ND	
86 4-Chlorobenzotrifluoride	180		13.678					ND	
87 Chlorobenzene	112		13.800					ND	
89 Ethylbenzene	91		13.867					ND	
88 1,1,1,2-Tetrachloroethane	131		13.885					ND	
90 m-Xylene & p-Xylene	106		14.013					ND	
93 o-Xylene	106		14.560					ND	
94 Styrene	104		14.578					ND	
91 2-Chlorobenzotrifluoride	180		14.858					ND	
92 Bromoform	173		14.925					ND	
95 Isopropylbenzene	105		14.998					ND	
96 Cyclohexanone	55		15.242					ND	
97 1,1,2,2-Tetrachloroethane	83		15.424					ND	
98 trans-1,4-Dichloro-2-buten	53		15.479					ND	
101 1,2,3-Trichloropropane	110		15.515					ND	
100 Bromobenzene	156		15.521					ND	
99 N-Propylbenzene	91		15.533					ND	
103 2-Chlorotoluene	126		15.722					ND	
102 1,3,5-Trimethylbenzene	105		15.728					ND	
104 3-Chlorotoluene	126		15.789					ND	
105 4-Chlorotoluene	126		15.850					ND	
106 tert-Butylbenzene	134		16.166					ND	
107 1,2,4-Trimethylbenzene	105		16.227					ND	
108 Pentachloroethane	167		16.282					ND	
109 sec-Butylbenzene	105		16.440					ND	
112 4-Isopropyltoluene	119		16.592					ND	
110 1,3-Dichlorobenzene	146		16.677					ND	
111 1,4-Dichlorobenzene	146		16.781					ND	
113 1,2,3-Trimethylbenzene	105		16.787					ND	
114 Dicyclopentadiene	66		16.805					ND	
143 Benzyl chloride	126		16.939					ND	
115 n-Butylbenzene	91		17.103					ND	
116 1,2-Dichlorobenzene	146		17.267					ND	
117 1,2-Dibromo-3-Chloropropan	75		18.247					ND	
118 1,3,5-Trichlorobenzene	180		18.460					ND	
119 1,2,4-Trichlorobenzene	180		19.317					ND	
120 Hexachlorobutadiene	225		19.470					ND	
121 Naphthalene	128		19.713					ND	
122 1,2,3-Trichlorobenzene	180		20.072					ND	
142 2-Methylnaphthalene	142		21.526					ND	
138 Ethylene oxide TIC	1		0.000					ND	
136 Propene oxide TIC	1		0.000					ND	
137 1-Bromopropane TIC	1		0.000					ND	
135 Pentachloroethane TIC	1		0.000					ND	
134 Halothane	1		0.000					ND	
S 123 1,2-Dichloroethene, Total	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 124 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		5.300					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 128 Hexachloroethane TIC	201		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	

Reagents:

P 8260 IS_00183	Amount Added: 1.25	Units: uL	Run Reagent
P 8260 Surr._00200	Amount Added: 1.25	Units: uL	Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P20757.D

Injection Date: 30-Nov-2016 16:52:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

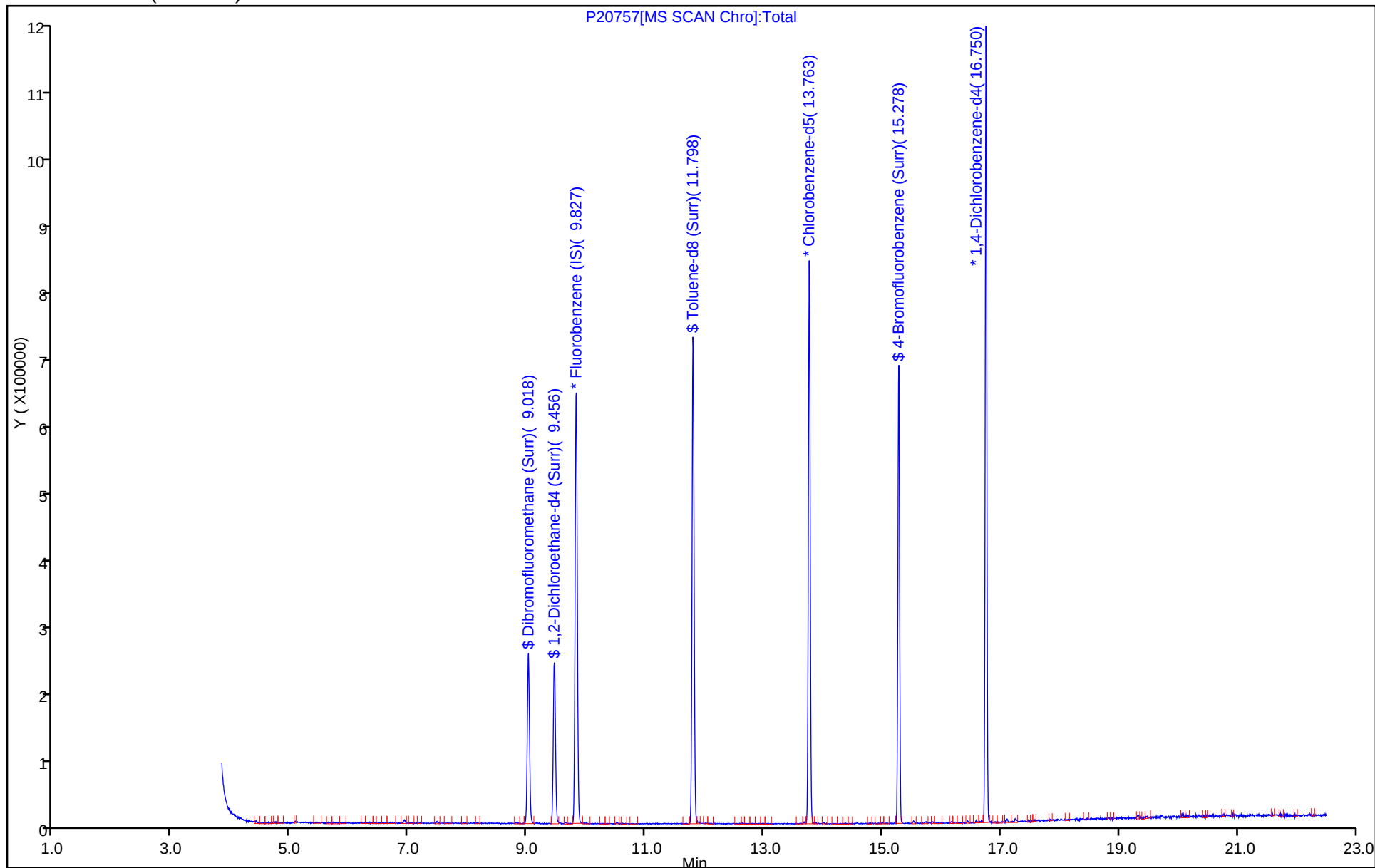
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-334557/6

Matrix: Water Lab File ID: P20894.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 11:17

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.: 334557 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
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
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
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
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-334557/6
 Matrix: Water Lab File ID: P20894.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 11:17
 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.: 334557 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)	101		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20894.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Dec-2016 11:17:30 ALS Bottle#: 6 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0058849-006
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2016 18:52:44 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: gentilej

Date: 04-Dec-2016 18:52:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.815	0.006	99	128736	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.764	13.757	0.007	86	266852	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	93	342558	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.006	0.006	94	180334	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.444	0.006	0	101746	25.0	25.4	
\$ 5 Toluene-d8 (Surr)	98	11.799	11.792	0.007	93	586980	25.0	25.3	
\$ 6 4-Bromofluorobenzene (Surr	174	15.278	15.272	0.006	97	243237	25.0	25.4	
10 Dichlorodifluoromethane	85		3.987					ND	
15 Chlorodifluoromethane	51		4.012					ND	
11 Chloromethane	50		4.304					ND	
17 Vinyl chloride	62		4.529					ND	
144 Butadiene	54		4.541					ND	
12 Bromomethane	94		5.082					ND	
13 Chloroethane	64		5.210					ND	
19 Dichlorofluoromethane	67		5.496					ND	
14 Trichlorofluoromethane	101		5.605					ND	
141 Ethanol	45		5.782					ND	
20 Ethyl ether	59		5.897					ND	
26 Propene oxide	58		6.043					ND	
22 Acrolein	56		6.147					ND	
16 1,1,2-Trichloro-1,2,2-trif	101		6.244					ND	
25 1,1-Dichloroethene	96		6.287					ND	
24 Acetone	43		6.323					ND	
23 Isopropyl alcohol	45		6.439					ND	
18 Iodomethane	142		6.554					ND	
27 Carbon disulfide	76		6.670					ND	
30 Methyl acetate	43		6.694					ND	
29 Acetonitrile	40		6.719					ND	
28 3-Chloro-1-propene	41		6.731					ND	
31 Methylene Chloride	84		6.907					ND	
33 2-Methyl-2-propanol	59		6.926					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		7.163					ND	
34 Acrylonitrile	53		7.193					ND	
35 trans-1,2-Dichloroethene	96		7.230					ND	
36 Hexane	57		7.461					ND	
37 Isopropyl ether	45		7.674					ND	
38 Vinyl acetate	43		7.698					ND	
40 1,1-Dichloroethane	63		7.747					ND	
39 1,1-Dimethoxyethane	75		7.777					ND	
41 2-Chloro-1,3-butadiene	53		7.838					ND	
42 Tert-butyl ethyl ether	59		8.118					ND	
46 Ethyl acetate	43		8.386					ND	
44 2-Butanone (MEK)	43		8.392					ND	
43 cis-1,2-Dichloroethene	96		8.446					ND	
45 2,2-Dichloropropane	77		8.446					ND	
47 Propionitrile	54		8.519					ND	
48 Methacrylonitrile	41		8.690					ND	
50 Chlorobromomethane	128		8.763					ND	
51 Tetrahydrofuran	42		8.787					ND	
49 Chloroform	83		8.799					ND	
52 1,1,1-Trichloroethane	97		9.061					ND	
54 Cyclohexane	56		9.128					ND	
53 Isobutyl alcohol	43		9.207					ND	
56 1,1-Dichloropropene	75		9.231					ND	
55 Carbon tetrachloride	117		9.268					ND	
140 t-Amyl alcohol	59		9.347					ND	
146 Isooctane	57		9.481					ND	
57 Benzene	78		9.517					ND	
58 Tert-amyl methyl ether	73		9.517					ND	
60 1,2-Dichloroethane	62		9.542					ND	
59 n-Heptane	43		9.639					ND	
66 2-Methylthiophene	97		9.687					ND	
67 3-Methylthiophene	97	9.821	9.894	-0.073	47	47341		NC	
1 1,4-Difluorobenzene	114		9.894					ND	
61 n-Butanol	56		10.004					ND	
145 Ethyl acrylate	55		10.247					ND	
62 Trichloroethene	95		10.272					ND	
64 Methylcyclohexane	83		10.503					ND	
65 Methyl methacrylate	41		10.545					ND	
63 1,2-Dichloropropane	63		10.582					ND	
68 1,4-Dioxane	88		10.703					ND	
69 Dibromomethane	93		10.770					ND	
70 Dichlorobromomethane	83		10.904					ND	
71 2-Chloroethyl vinyl ether	63		11.172					ND	
72 2-Nitropropane	43		11.172					ND	
74 Epichlorohydrin	57		11.336					ND	
73 cis-1,3-Dichloropropene	75		11.440					ND	
75 4-Methyl-2-pentanone (MIBK)	43		11.549					ND	
76 Toluene	92		11.884					ND	
77 Ethyl methacrylate	69		12.115					ND	
78 trans-1,3-Dichloropropene	75		12.145					ND	
79 1,1,2-Trichloroethane	83		12.425					ND	
80 Tetrachloroethene	166		12.632					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		12.638					ND	
82 1,3-Dichloropropane	76		12.662					ND	
149 n-Butyl acetate	43		12.723					ND	
81 Chlorodibromomethane	129		13.009					ND	
85 Ethylene Dibromide	107		13.210					ND	
84 3-Chlorobenzotrifluoride	180		13.605					ND	
139 1-Chlorohexane	55		13.624					ND	
86 4-Chlorobenzotrifluoride	180		13.678					ND	
87 Chlorobenzene	112		13.800					ND	
89 Ethylbenzene	91		13.861					ND	
88 1,1,1,2-Tetrachloroethane	131		13.879					ND	
90 m-Xylene & p-Xylene	106		14.007					ND	
93 o-Xylene	106		14.554					ND	
94 Styrene	104		14.573					ND	
91 2-Chlorobenzotrifluoride	180		14.852					ND	
92 Bromoform	173		14.925					ND	
95 Isopropylbenzene	105		14.998					ND	
96 Cyclohexanone	55		15.242					ND	
97 1,1,2,2-Tetrachloroethane	83		15.424					ND	
98 trans-1,4-Dichloro-2-buten	53		15.479					ND	
100 Bromobenzene	156		15.516					ND	
101 1,2,3-Trichloropropane	110		15.516					ND	
99 N-Propylbenzene	91		15.528					ND	
103 2-Chlorotoluene	126		15.716					ND	
102 1,3,5-Trimethylbenzene	105		15.722					ND	
104 3-Chlorotoluene	126		15.783					ND	
105 4-Chlorotoluene	126		15.844					ND	
106 tert-Butylbenzene	134		16.167					ND	
107 1,2,4-Trimethylbenzene	105		16.227					ND	
108 Pentachloroethane	167		16.276					ND	
109 sec-Butylbenzene	105		16.434					ND	
112 4-Isopropyltoluene	119		16.586					ND	
110 1,3-Dichlorobenzene	146		16.671					ND	
111 1,4-Dichlorobenzene	146		16.781					ND	
113 1,2,3-Trimethylbenzene	105		16.781					ND	
114 Dicyclopentadiene	66		16.805					ND	
143 Benzyl chloride	126		16.933					ND	
115 n-Butylbenzene	91		17.103					ND	
116 1,2-Dichlorobenzene	146		17.262					ND	
117 1,2-Dibromo-3-Chloropropan	75		18.241					ND	
118 1,3,5-Trichlorobenzene	180		18.460					ND	
119 1,2,4-Trichlorobenzene	180		19.318					ND	
120 Hexachlorobutadiene	225		19.470					ND	
121 Naphthalene	128		19.713					ND	
122 1,2,3-Trichlorobenzene	180		20.066					ND	
142 2-Methylnaphthalene	142		21.520					ND	
138 Ethylene oxide TIC	1		0.000					ND	
136 Propene oxide TIC	1		0.000					ND	
137 1-Bromopropane TIC	1		0.000					ND	
135 Pentachloroethane TIC	1		0.000					ND	
134 Halothane	1		0.000					ND	
S 123 1,2-Dichloroethene, Total	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 124 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		5.300					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 128 Hexachloroethane TIC	201		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20894.D

Injection Date: 03-Dec-2016 11:17:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

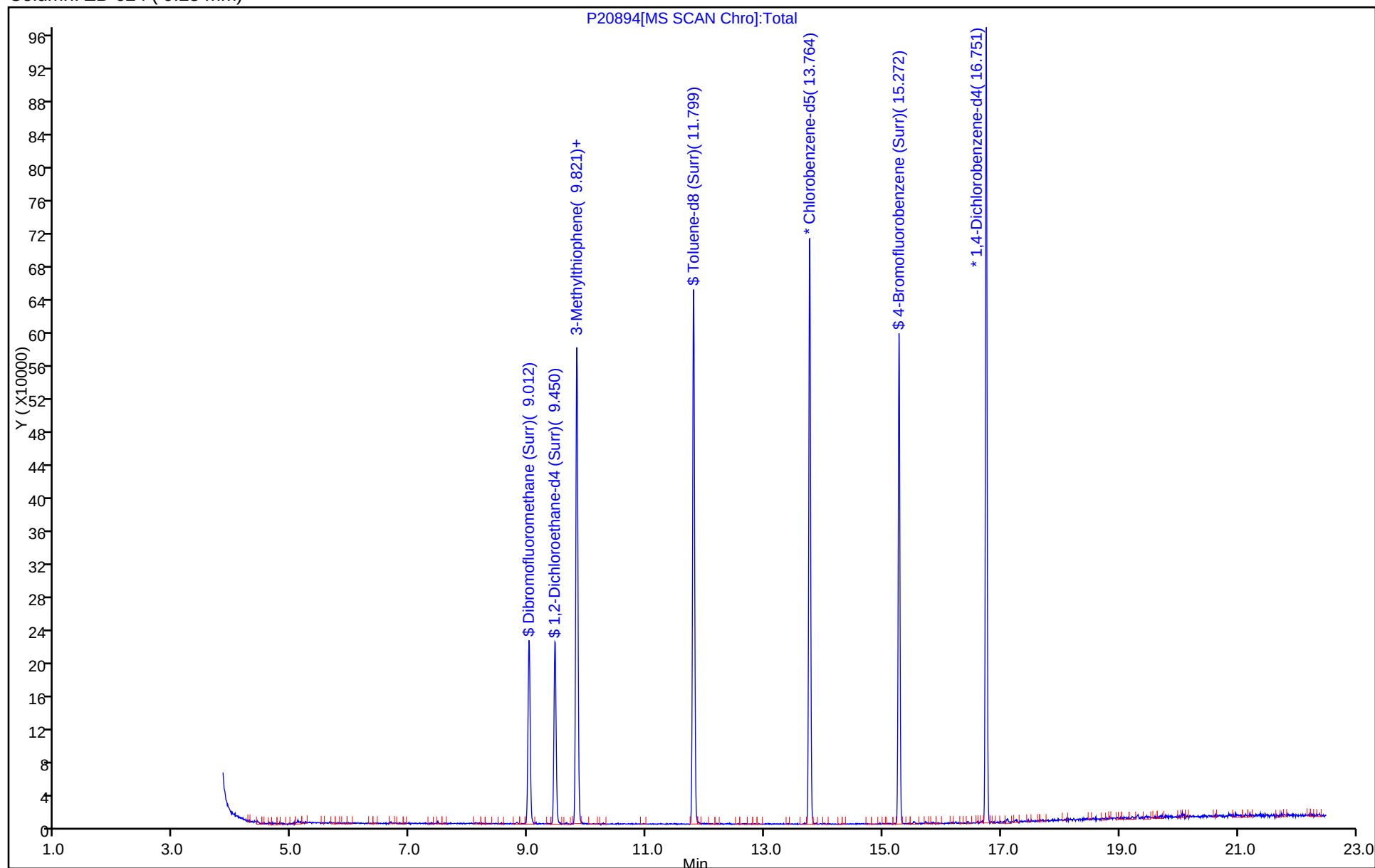
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-334061/17
 Matrix: Water Lab File ID: P20755.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/30/2016 15:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334061 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	20.4		1.0	0.21
79-00-5	1,1,2-Trichloroethane	22.3		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19.7		1.0	0.31
75-34-3	1,1-Dichloroethane	21.5		1.0	0.38
75-35-4	1,1-Dichloroethene	19.7		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	24.4		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		1.0	0.39
106-93-4	1,2-Dibromoethane	22.6		1.0	0.73
95-50-1	1,2-Dichlorobenzene	22.6		1.0	0.79
107-06-2	1,2-Dichloroethane	22.6		1.0	0.21
78-87-5	1,2-Dichloropropane	22.6		1.0	0.72
541-73-1	1,3-Dichlorobenzene	22.7		1.0	0.78
106-46-7	1,4-Dichlorobenzene	22.2		1.0	0.84
591-78-6	2-Hexanone	103		5.0	1.2
78-93-3	2-Butanone (MEK)	97.5		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	102		5.0	2.1
67-64-1	Acetone	98.0		10	3.0
71-43-2	Benzene	21.8		1.0	0.41
75-27-4	Bromodichloromethane	23.2		1.0	0.39
75-25-2	Bromoform	26.7		1.0	0.26
74-83-9	Bromomethane	27.8		1.0	0.69
75-15-0	Carbon disulfide	20.3		1.0	0.19
56-23-5	Carbon tetrachloride	21.7		1.0	0.27
108-90-7	Chlorobenzene	22.6		1.0	0.75
124-48-1	Dibromochloromethane	24.7		1.0	0.32
75-00-3	Chloroethane	30.9		1.0	0.32
67-66-3	Chloroform	22.0		1.0	0.34
74-87-3	Chloromethane	23.2		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	24.3		1.0	0.36
110-82-7	Cyclohexane	19.9		1.0	0.18
75-71-8	Dichlorodifluoromethane	25.2		1.0	0.68
100-41-4	Ethylbenzene	23.1		1.0	0.74
98-82-8	Isopropylbenzene	22.4		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-334061/17
 Matrix: Water Lab File ID: P20755.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 11/30/2016 15:57
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334061 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	94.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.5		1.0	0.16
108-87-2	Methylcyclohexane	20.7		1.0	0.16
75-09-2	Methylene Chloride	23.1		1.0	0.44
100-42-5	Styrene	24.8		1.0	0.73
127-18-4	Tetrachloroethene	22.2		1.0	0.36
108-88-3	Toluene	22.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	21.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	23.7		1.0	0.37
79-01-6	Trichloroethene	22.2		1.0	0.46
75-69-4	Trichlorofluoromethane	24.9		1.0	0.88
75-01-4	Vinyl chloride	24.4		1.0	0.90
1330-20-7	Xylenes, Total	47.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
2037-26-5	Toluene-d8 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P20755.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-Nov-2016 15:57:30 ALS Bottle#: 7 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0058759-017
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161130-58759.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 30-Nov-2016 16:25:48 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: farrellr

Date: 30-Nov-2016 16:25:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.821	9.821	0.000	99	153887	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.757	13.763	-0.006	84	331131	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.750	16.750	0.000	91	456380	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.006	9.018	-0.012	97	213097	25.0	24.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.456	-0.006	0	113884	25.0	23.8	
\$ 5 Toluene-d8 (Surr)	98	11.792	11.798	-0.006	93	705343	25.0	24.5	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.278	-0.006	97	308172	25.0	26.0	
10 Dichlorodifluoromethane	85	3.987	3.993	-0.006	99	310553	25.0	25.2	
11 Chloromethane	50	4.297	4.303	-0.006	98	238229	25.0	23.2	
17 Vinyl chloride	62	4.522	4.528	-0.006	98	192078	25.0	24.4	
144 Butadiene	54	4.547	4.547	0.001	85	190454	25.0	23.4	
12 Bromomethane	94	5.082	5.070	0.012	90	197625	25.0	27.8	
13 Chloroethane	64	5.198	5.204	-0.006	99	197163	25.0	30.9	
19 Dichlorofluoromethane	67	5.484	5.483	0.001	97	470004	25.0	25.6	
14 Trichlorofluoromethane	101	5.587	5.593	-0.006	97	448608	25.0	24.9	
20 Ethyl ether	59	5.897	5.897	0.000	95	262987	25.0	22.7	
22 Acrolein	56	6.147	6.146	0.001	99	338212	125.0	104.0	
16 1,1,2-Trichloro-1,2,2-trif	101	6.238	6.238	0.000	87	243103	25.0	19.7	
25 1,1-Dichloroethene	96	6.287	6.286	0.001	96	227267	25.0	19.7	
24 Acetone	43	6.323	6.323	0.000	100	499609	125.0	98.0	
18 Iodomethane	142	6.548	6.554	-0.006	98	530623	25.0	22.5	
27 Carbon disulfide	76	6.664	6.670	-0.006	100	692444	25.0	20.3	
30 Methyl acetate	43	6.700	6.700	0.000	99	1312327	125.0	94.8	
28 3-Chloro-1-propene	41	6.731	6.731	0.001	90	410424	25.0	22.3	
31 Methylene Chloride	84	6.901	6.907	-0.006	99	271377	25.0	23.1	
33 2-Methyl-2-propanol	59	6.931	6.937	-0.006	99	516137	250.0	211.2	
32 Methyl tert-butyl ether	73	7.163	7.162	0.001	97	759671	25.0	23.5	
34 Acrylonitrile	53	7.199	7.199	0.000	100	1486652	250.0	199.0	
35 trans-1,2-Dichloroethene	96	7.230	7.229	0.001	96	258198	25.0	21.6	
36 Hexane	57	7.461	7.467	-0.006	89	342031	25.0	19.4	
38 Vinyl acetate	43	7.698	7.698	0.000	97	1274839	50.0	44.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
40 1,1-Dichloroethane	63	7.753	7.753	0.000	97	479570	25.0	21.5	
44 2-Butanone (MEK)	43	8.392	8.397	-0.005	99	843753	125.0	97.5	
43 cis-1,2-Dichloroethene	96	8.452	8.452	0.000	83	303024	25.0	23.4	
45 2,2-Dichloropropane	77	8.452	8.458	-0.006	90	346493	25.0	22.5	
50 Chlorobromomethane	128	8.763	8.769	-0.005	95	171561	25.0	23.8	
51 Tetrahydrofuran	42	8.793	8.793	0.000	88	219321	50.0	36.9	
49 Chloroform	83	8.805	8.805	0.000	94	457659	25.0	22.0	
52 1,1,1-Trichloroethane	97	9.061	9.061	0.000	99	397808	25.0	22.0	
54 Cyclohexane	56	9.128	9.134	-0.006	90	466301	25.0	19.9	
53 Isobutyl alcohol	43	9.207	9.213	-0.006	97	446842	625.0	533.5	
56 1,1-Dichloropropene	75	9.237	9.237	0.000	93	297957	25.0	21.3	
55 Carbon tetrachloride	117	9.268	9.273	-0.005	95	359355	25.0	21.7	
57 Benzene	78	9.517	9.517	0.000	97	877130	25.0	21.8	
60 1,2-Dichloroethane	62	9.541	9.541	0.000	97	411770	25.0	22.6	
59 n-Heptane	43	9.639	9.645	-0.006	94	280127	25.0	19.5	
62 Trichloroethene	95	10.271	10.271	0.000	94	266629	25.0	22.2	
64 Methylcyclohexane	83	10.509	10.502	0.007	93	369963	25.0	20.7	
63 1,2-Dichloropropane	63	10.582	10.581	0.001	97	267605	25.0	22.6	
68 1,4-Dioxane	88	10.703	10.697	0.006	96	77078	500.0	476.8	
69 Dibromomethane	93	10.764	10.770	-0.006	87	188045	25.0	24.6	
70 Dichlorobromomethane	83	10.904	10.910	-0.006	98	326396	25.0	23.2	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	92	197936	25.0	24.1	
73 cis-1,3-Dichloropropene	75	11.446	11.445	0.001	94	380104	25.0	24.3	
75 4-Methyl-2-pentanone (MIBK)	43	11.549	11.555	-0.006	95	1731798	125.0	101.8	
76 Toluene	92	11.884	11.889	-0.005	98	568656	25.0	22.3	
77 Ethyl methacrylate	69	12.115	12.114	0.001	90	327631	25.0	23.8	
78 trans-1,3-Dichloropropene	75	12.145	12.145	0.000	94	356402	25.0	23.7	
79 1,1,2-Trichloroethane	83	12.425	12.425	0.000	91	200955	25.0	22.3	
80 Tetrachloroethene	166	12.632	12.632	0.000	97	313443	25.0	22.2	
83 2-Hexanone	43	12.638	12.644	-0.006	94	1173407	125.0	103.0	
82 1,3-Dichloropropane	76	12.662	12.668	-0.006	96	370345	25.0	22.3	
81 Chlorodibromomethane	129	13.009	13.009	0.000	90	303388	25.0	24.7	
85 Ethylene Dibromide	107	13.210	13.210	0.000	99	286545	25.0	22.6	
87 Chlorobenzene	112	13.800	13.800	0.000	97	752162	25.0	22.6	
89 Ethylbenzene	91	13.867	13.867	0.000	97	1069758	25.0	23.1	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.885	0.000	94	314400	25.0	24.2	
90 m-Xylene & p-Xylene	106	14.007	14.013	-0.006	0	473538	25.0	23.2	
93 o-Xylene	106	14.560	14.560	0.000	95	489201	25.0	23.9	
94 Styrene	104	14.572	14.578	-0.006	94	726324	25.0	24.8	
92 Bromoform	173	14.925	14.925	0.000	99	251270	25.0	26.7	
95 Isopropylbenzene	105	14.998	14.998	0.000	95	1137859	25.0	22.4	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	96	369748	25.0	20.4	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	82	119294	25.0	21.4	
101 1,2,3-Trichloropropane	110	15.515	15.515	0.000	61	116450	25.0	20.5	
100 Bromobenzene	156	15.522	15.521	0.001	88	399563	25.0	22.5	
99 N-Propylbenzene	91	15.534	15.533	0.001	97	1263135	25.0	21.2	
103 2-Chlorotoluene	126	15.722	15.722	0.000	98	333498	25.0	22.6	
102 1,3,5-Trimethylbenzene	105	15.728	15.728	0.000	97	970609	25.0	22.4	
105 4-Chlorotoluene	126	15.850	15.850	0.000	96	343534	25.0	22.7	
106 tert-Butylbenzene	134	16.166	16.166	0.000	91	251329	25.0	22.8	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	96	1045433	25.0	23.1	
109 sec-Butylbenzene	105	16.440	16.440	0.000	93	1205748	25.0	22.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
112 4-Isopropyltoluene	119	16.592	16.592	0.000	97	1207513	25.0	23.0	
110 1,3-Dichlorobenzene	146	16.677	16.677	0.000	98	711992	25.0	22.7	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	96	713534	25.0	22.2	
115 n-Butylbenzene	91	17.103	17.103	0.000	96	896649	25.0	21.5	
116 1,2-Dichlorobenzene	146	17.267	17.267	0.000	99	717406	25.0	22.6	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.247	-0.006	92	78973	25.0	20.0	
119 1,2,4-Trichlorobenzene	180	19.318	19.317	0.001	94	641908	25.0	24.4	
120 Hexachlorobutadiene	225	19.470	19.470	0.000	93	240970	25.0	22.4	
121 Naphthalene	128	19.713	19.713	0.000	97	1571464	25.0	22.0	
122 1,2,3-Trichlorobenzene	180	20.072	20.072	0.000	95	576204	25.0	22.7	

Reagents:

8260 CORP mix_00086

Amount Added: 12.50

Units: uL

GAS CORP mix_00192

Amount Added: 12.50

Units: uL

P 8260 IS_00183

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr._00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973P\\20161130-58759.b\\P20755.D

Injection Date: 30-Nov-2016 15:57:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: LCS

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

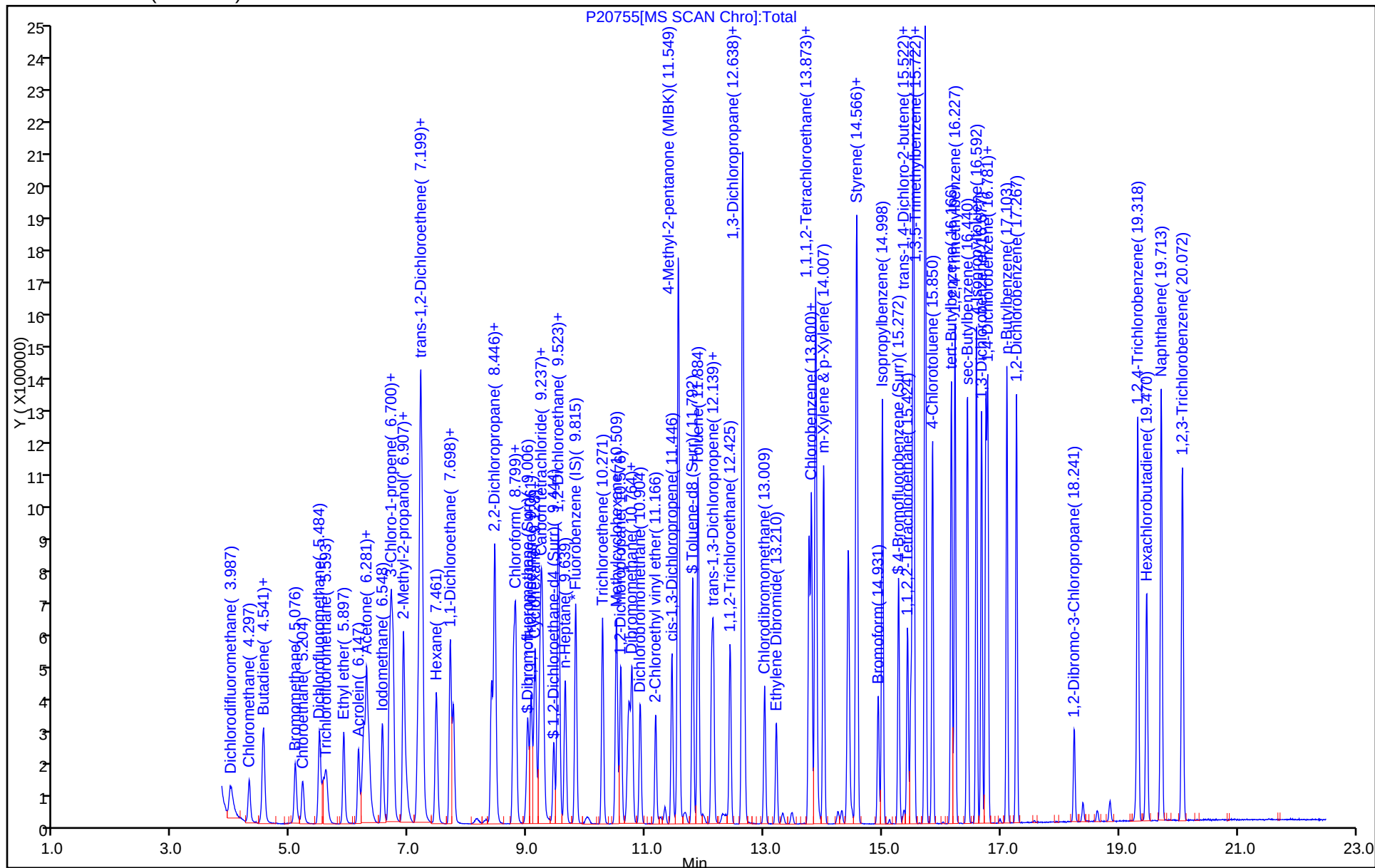
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-334557/4

Matrix: Water Lab File ID: P20892.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 10:23

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.: 334557 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.4		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	23.0		1.0	0.21
79-00-5	1,1,2-Trichloroethane	23.7		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20.3		1.0	0.31
75-34-3	1,1-Dichloroethane	21.9		1.0	0.38
75-35-4	1,1-Dichloroethene	20.0		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	23.6		1.0	0.39
106-93-4	1,2-Dibromoethane	24.2		1.0	0.73
95-50-1	1,2-Dichlorobenzene	23.2		1.0	0.79
107-06-2	1,2-Dichloroethane	23.3		1.0	0.21
78-87-5	1,2-Dichloropropane	23.1		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.4		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.1		1.0	0.84
591-78-6	2-Hexanone	131		5.0	1.2
78-93-3	2-Butanone (MEK)	128		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	124		5.0	2.1
67-64-1	Acetone	142		10	3.0
71-43-2	Benzene	22.3		1.0	0.41
75-27-4	Bromodichloromethane	23.5		1.0	0.39
75-25-2	Bromoform	26.5		1.0	0.26
74-83-9	Bromomethane	24.1		1.0	0.69
75-15-0	Carbon disulfide	19.9		1.0	0.19
56-23-5	Carbon tetrachloride	22.4		1.0	0.27
108-90-7	Chlorobenzene	23.3		1.0	0.75
124-48-1	Dibromochloromethane	25.1		1.0	0.32
75-00-3	Chloroethane	29.9		1.0	0.32
67-66-3	Chloroform	22.4		1.0	0.34
74-87-3	Chloromethane	19.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.6		1.0	0.36
110-82-7	Cyclohexane	20.2		1.0	0.18
75-71-8	Dichlorodifluoromethane	20.3		1.0	0.68
100-41-4	Ethylbenzene	23.6		1.0	0.74
98-82-8	Isopropylbenzene	23.4		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-334557/4
 Matrix: Water Lab File ID: P20892.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 10:23
 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.: 334557 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	115		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.3		1.0	0.16
108-87-2	Methylcyclohexane	20.7		1.0	0.16
75-09-2	Methylene Chloride	23.1		1.0	0.44
100-42-5	Styrene	25.1		1.0	0.73
127-18-4	Tetrachloroethene	22.9		1.0	0.36
108-88-3	Toluene	23.1		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	22.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	23.7		1.0	0.37
79-01-6	Trichloroethene	22.6		1.0	0.46
75-69-4	Trichlorofluoromethane	23.7		1.0	0.88
75-01-4	Vinyl chloride	20.8		1.0	0.90
1330-20-7	Xylenes, Total	47.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20892.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Dec-2016 10:23:30 ALS Bottle#: 4 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0058849-004
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 03-Dec-2016 10:58:47 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: farrellr

Date: 03-Dec-2016 10:58:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.815	9.815	0.000	99	135280	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.763	13.757	0.006	84	281247	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	92	375869	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.006	0.006	94	189565	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.444	0.006	0	105596	25.0	25.1	
\$ 5 Toluene-d8 (Surr)	98	11.792	11.792	0.000	93	631411	25.0	25.8	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	97	271274	25.0	26.9	
10 Dichlorodifluoromethane	85	3.987	3.987	0.000	99	219671	25.0	20.3	
11 Chloromethane	50	4.304	4.304	0.000	99	176465	25.0	19.5	
17 Vinyl chloride	62	4.529	4.529	0.000	98	143703	25.0	20.8	
144 Butadiene	54	4.547	4.541	0.006	85	179701	25.0	25.1	
12 Bromomethane	94	5.082	5.082	0.000	91	149859	25.0	24.1	
13 Chloroethane	64	5.204	5.210	-0.006	99	168015	25.0	29.9	
19 Dichlorofluoromethane	67	5.496	5.496	0.000	97	422998	25.0	26.2	
14 Trichlorofluoromethane	101	5.605	5.605	0.000	99	375145	25.0	23.7	
20 Ethyl ether	59	5.904	5.897	0.007	97	226762	25.0	22.3	
22 Acrolein	56	6.153	6.147	0.006	99	341246	125.0	119.4	
16 1,1,2-Trichloro-1,2,2-trif	101	6.250	6.244	0.006	88	220183	25.0	20.3	
25 1,1-Dichloroethene	96	6.293	6.287	0.006	96	202796	25.0	20.0	
24 Acetone	43	6.329	6.323	0.006	99	637185	125.0	142.2	
18 Iodomethane	142	6.561	6.554	0.007	98	453196	25.0	21.8	
27 Carbon disulfide	76	6.676	6.670	0.006	100	595827	25.0	19.9	M
30 Methyl acetate	43	6.707	6.694	0.013	99	1396268	125.0	114.7	
28 3-Chloro-1-propene	41	6.737	6.731	0.006	83	365506	25.0	22.5	
31 Methylene Chloride	84	6.913	6.907	0.006	98	238499	25.0	23.1	
33 2-Methyl-2-propanol	59	6.944	6.926	0.018	100	502419	250.0	233.9	
32 Methyl tert-butyl ether	73	7.169	7.163	0.006	98	662534	25.0	23.3	
34 Acrylonitrile	53	7.199	7.193	0.006	99	1541658	250.0	234.8	
35 trans-1,2-Dichloroethene	96	7.236	7.230	0.006	96	231076	25.0	22.0	
36 Hexane	57	7.467	7.461	0.006	90	297864	25.0	19.2	
38 Vinyl acetate	43	7.704	7.698	0.006	97	1262289	50.0	50.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
40 1,1-Dichloroethane	63	7.759	7.747	0.012	97	429199	25.0	21.9	
44 2-Butanone (MEK)	43	8.398	8.392	0.006	99	975173	125.0	128.1	
43 cis-1,2-Dichloroethene	96	8.453	8.446	0.007	83	267356	25.0	23.4	
45 2,2-Dichloropropane	77	8.453	8.446	0.007	53	306421	25.0	22.6	
50 Chlorobromomethane	128	8.769	8.763	0.006	96	149323	25.0	23.5	
51 Tetrahydrofuran	42	8.793	8.787	0.006	90	235144	50.0	45.0	
49 Chloroform	83	8.811	8.799	0.012	94	410338	25.0	22.4	
52 1,1,1-Trichloroethane	97	9.067	9.061	0.006	99	355548	25.0	22.4	
54 Cyclohexane	56	9.134	9.128	0.006	91	415682	25.0	20.2	
53 Isobutyl alcohol	43	9.213	9.207	0.006	96	464305	625.0	630.6	
56 1,1-Dichloropropene	75	9.243	9.231	0.012	94	273755	25.0	22.3	
55 Carbon tetrachloride	117	9.274	9.268	0.006	96	325811	25.0	22.4	
57 Benzene	78	9.523	9.517	0.006	98	790583	25.0	22.3	
60 1,2-Dichloroethane	62	9.548	9.542	0.006	96	373222	25.0	23.3	
59 n-Heptane	43	9.645	9.639	0.006	95	257198	25.0	20.3	
62 Trichloroethene	95	10.278	10.272	0.006	93	238690	25.0	22.6	
64 Methylcyclohexane	83	10.509	10.503	0.006	94	324190	25.0	20.7	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	97	240073	25.0	23.1	
68 1,4-Dioxane	88	10.703	10.703	0.000	98	63316	500.0	461.2	
69 Dibromomethane	93	10.770	10.770	0.000	90	162151	25.0	24.1	
70 Dichlorobromomethane	83	10.910	10.904	0.006	99	290627	25.0	23.5	
71 2-Chloroethyl vinyl ether	63	11.172	11.172	0.000	92	177905	25.0	24.7	
73 cis-1,3-Dichloropropene	75	11.446	11.440	0.006	94	324270	25.0	23.6	
75 4-Methyl-2-pentanone (MIBK)	43	11.555	11.549	0.006	96	1784375	125.0	123.5	
76 Toluene	92	11.890	11.884	0.006	98	500870	25.0	23.1	
77 Ethyl methacrylate	69	12.115	12.115	0.000	92	291158	25.0	24.9	
78 trans-1,3-Dichloropropene	75	12.145	12.145	0.000	94	303024	25.0	23.7	
79 1,1,2-Trichloroethane	83	12.431	12.425	0.006	92	181359	25.0	23.7	
80 Tetrachloroethene	166	12.638	12.632	0.006	95	274453	25.0	22.9	
83 2-Hexanone	43	12.638	12.638	0.000	95	1270070	125.0	131.3	
82 1,3-Dichloropropane	76	12.668	12.662	0.006	96	334003	25.0	23.6	
81 Chlorodibromomethane	129	13.009	13.009	0.000	90	262300	25.0	25.1	
85 Ethylene Dibromide	107	13.210	13.210	0.000	99	260072	25.0	24.2	
87 Chlorobenzene	112	13.800	13.800	0.000	97	659667	25.0	23.3	
89 Ethylbenzene	91	13.867	13.861	0.006	98	928377	25.0	23.6	
88 1,1,1,2-Tetrachloroethane	131	13.885	13.879	0.006	94	267337	25.0	24.3	
90 m-Xylene & p-Xylene	106	14.013	14.007	0.006	0	411192	25.0	23.7	
93 o-Xylene	106	14.554	14.554	0.000	95	416073	25.0	23.9	
94 Styrene	104	14.579	14.573	0.006	95	624326	25.0	25.1	
92 Bromoform	173	14.925	14.925	0.000	98	211344	25.0	26.5	
95 Isopropylbenzene	105	14.998	14.998	0.000	95	980082	25.0	23.4	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	97	343573	25.0	23.0	
98 trans-1,4-Dichloro-2-buten	53	15.479	15.479	0.000	60	22909	25.0	4.99	
100 Bromobenzene	156	15.516	15.516	0.000	87	344817	25.0	23.6	
101 1,2,3-Trichloropropane	110	15.516	15.516	0.000	88	112342	25.0	24.0	
99 N-Propylbenzene	91	15.528	15.528	0.000	98	1082930	25.0	22.1	
103 2-Chlorotoluene	126	15.716	15.716	0.000	98	283779	25.0	23.4	
102 1,3,5-Trimethylbenzene	105	15.728	15.722	0.006	97	834660	25.0	23.4	
105 4-Chlorotoluene	126	15.844	15.844	0.000	96	298455	25.0	24.0	
106 tert-Butylbenzene	134	16.166	16.167	-0.001	92	211676	25.0	23.4	
107 1,2,4-Trimethylbenzene	105	16.227	16.227	0.000	95	881499	25.0	23.6	
109 sec-Butylbenzene	105	16.434	16.434	0.000	93	1038067	25.0	23.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
112 4-Isopropyltoluene	119	16.586	16.586	0.000	97	1014008	25.0	23.4	
110 1,3-Dichlorobenzene	146	16.678	16.671	0.007	99	604311	25.0	23.4	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	97	610476	25.0	23.1	
115 n-Butylbenzene	91	17.103	17.103	0.000	97	782540	25.0	22.8	
116 1,2-Dichlorobenzene	146	17.268	17.262	0.006	99	608478	25.0	23.2	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	92	76447	25.0	23.6	
119 1,2,4-Trichlorobenzene	180	19.312	19.318	-0.006	94	511277	25.0	23.6	
120 Hexachlorobutadiene	225	19.464	19.470	-0.006	94	198825	25.0	22.4	
121 Naphthalene	128	19.713	19.713	0.000	97	1441236	25.0	24.4	
122 1,2,3-Trichlorobenzene	180	20.066	20.066	0.000	96	490109	25.0	23.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00086

Amount Added: 12.50

Units: uL

GAS CORP mix_00193

Amount Added: 12.50

Units: uL

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr_00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973P\\20161203-58849.b\\P20892.D

Injection Date: 03-Dec-2016 10:23:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

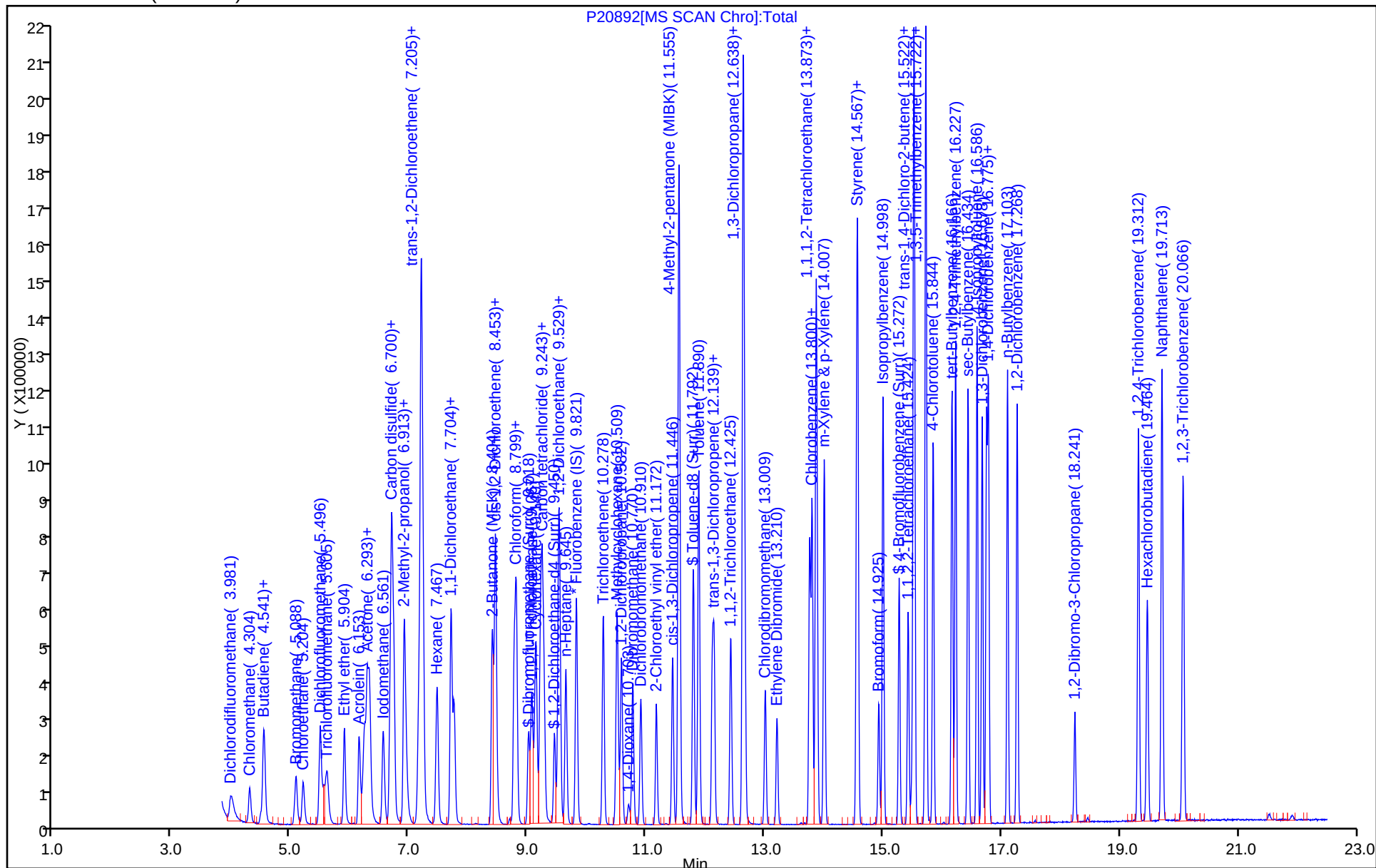
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20892.D

Injection Date: 03-Dec-2016 10:23:30

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)

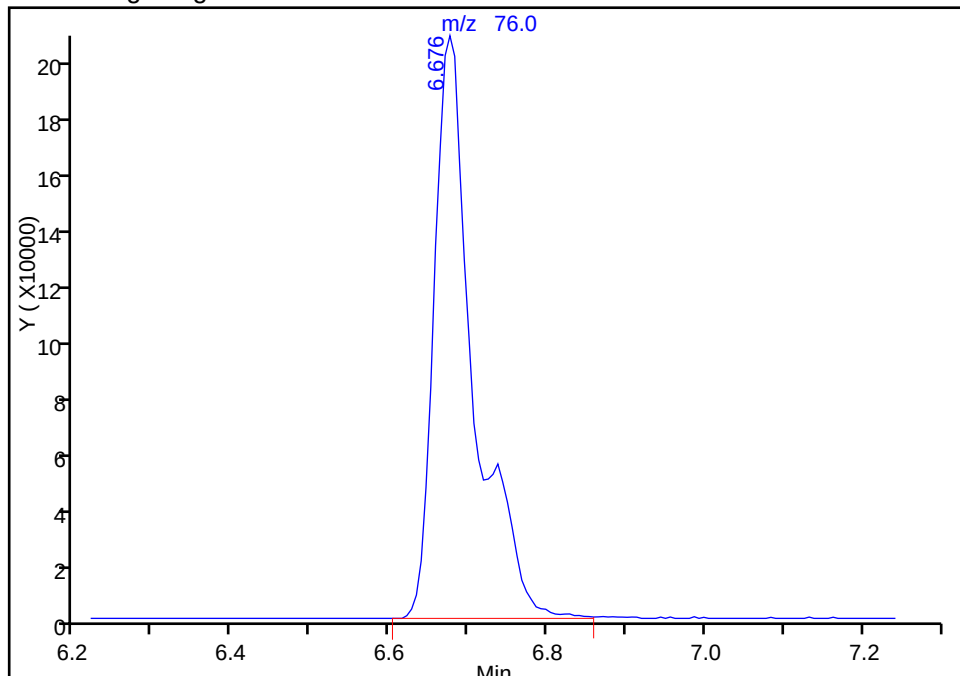
Detector: MS SCAN

27 Carbon disulfide, CAS: 75-15-0

Signal: 1

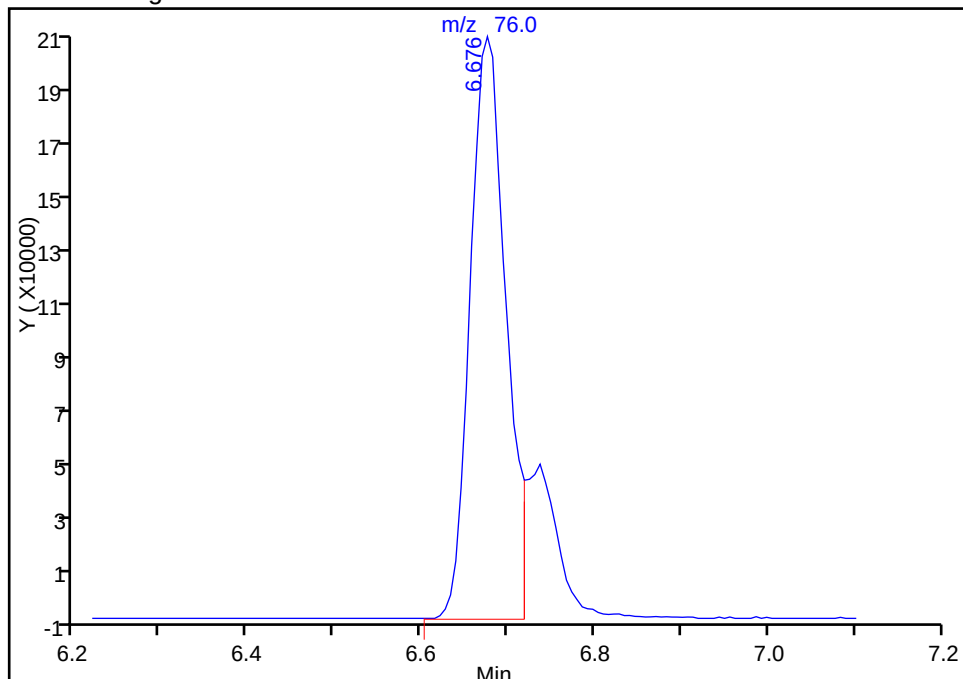
RT: 6.68
Area: 721626
Amount: 24.060246
Amount Units: ug/L

Processing Integration Results



RT: 6.68
Area: 595827
Amount: 19.865892
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 03-Dec-2016 10:58:47

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-8 MS</u>	Lab Sample ID: <u>480-110087-4 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>P20911.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/23/2016 09:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 17:56</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334557</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.8		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	26.7		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.8		1.0	0.31
75-34-3	1,1-Dichloroethane	25.8		1.0	0.38
75-35-4	1,1-Dichloroethene	24.2		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.2		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	25.9		1.0	0.39
106-93-4	1,2-Dibromoethane	27.0		1.0	0.73
95-50-1	1,2-Dichlorobenzene	25.5		1.0	0.79
107-06-2	1,2-Dichloroethane	26.5		1.0	0.21
78-87-5	1,2-Dichloropropane	26.6		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.2		1.0	0.84
591-78-6	2-Hexanone	145		5.0	1.2
78-93-3	2-Butanone (MEK)	138		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	140		5.0	2.1
67-64-1	Acetone	148		10	3.0
71-43-2	Benzene	26.6		1.0	0.41
75-27-4	Bromodichloromethane	27.0		1.0	0.39
75-25-2	Bromoform	29.6		1.0	0.26
74-83-9	Bromomethane	35.8		1.0	0.69
75-15-0	Carbon disulfide	24.8		1.0	0.19
56-23-5	Carbon tetrachloride	26.4		1.0	0.27
108-90-7	Chlorobenzene	26.4		1.0	0.75
124-48-1	Dibromochloromethane	28.2		1.0	0.32
75-00-3	Chloroethane	35.6		1.0	0.32
67-66-3	Chloroform	26.6		1.0	0.34
74-87-3	Chloromethane	23.4		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	27.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.5		1.0	0.36
110-82-7	Cyclohexane	22.9		1.0	0.18
75-71-8	Dichlorodifluoromethane	22.2		1.0	0.68
100-41-4	Ethylbenzene	27.6		1.0	0.74
98-82-8	Isopropylbenzene	26.5		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: MW-8 MS Lab Sample ID: 480-110087-4 MS
 Matrix: Water Lab File ID: P20911.D
 Analysis Method: 8260C Date Collected: 11/23/2016 09:45
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 17:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 334557 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	124		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.3		1.0	0.16
108-87-2	Methylcyclohexane	22.9		1.0	0.16
75-09-2	Methylene Chloride	26.6		1.0	0.44
100-42-5	Styrene	28.2		1.0	0.73
127-18-4	Tetrachloroethene	26.2		1.0	0.36
108-88-3	Toluene	26.4		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.5		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.8		1.0	0.37
79-01-6	Trichloroethene	26.1		1.0	0.46
75-69-4	Trichlorofluoromethane	26.4		1.0	0.88
75-01-4	Vinyl chloride	23.3		1.0	0.90
1330-20-7	Xylenes, Total	53.4		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
2037-26-5	Toluene-d8 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20911.D
 Lims ID: 480-110087-C-4 MS
 Client ID: MW-8
 Sample Type: MS
 Inject. Date: 03-Dec-2016 17:56:30 ALS Bottle#: 23 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110087-c-4 ms
 Misc. Info.: 480-0058849-011
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2016 20:22:37 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: gentilej

Date: 04-Dec-2016 21:53:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	9.815	9.815	0.000	99	122966	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.758	13.757	0.001	84	256038	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.751	16.751	0.000	92	355380	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.006	0.006	94	178021	25.0	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.444	9.444	0.000	0	98670	25.0	25.8	
\$ 5 Toluene-d8 (Surr)	98	11.799	11.792	0.007	93	573350	25.0	25.8	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	96	246729	25.0	26.9	
10 Dichlorodifluoromethane	85	3.981	3.987	-0.006	98	217838	25.0	22.2	
11 Chloromethane	50	4.292	4.304	-0.012	99	191945	25.0	23.4	
17 Vinyl chloride	62	4.517	4.529	-0.012	98	146019	25.0	23.3	
12 Bromomethane	94	5.070	5.082	-0.012	90	204321	25.0	35.8	
13 Chloroethane	64	5.198	5.210	-0.012	98	181789	25.0	35.6	
14 Trichlorofluoromethane	101	5.599	5.605	-0.006	97	380060	25.0	26.4	
16 1,1,2-Trichloro-1,2,2-trif	101	6.244	6.244	0.000	90	224765	25.0	22.8	
25 1,1-Dichloroethene	96	6.287	6.287	0.000	96	222799	25.0	24.2	
24 Acetone	43	6.323	6.323	0.000	100	603167	125.0	148.1	
27 Carbon disulfide	76	6.670	6.670	0.000	100	677055	25.0	24.8	
30 Methyl acetate	43	6.701	6.694	0.007	99	1376469	125.0	124.4	
31 Methylene Chloride	84	6.907	6.907	0.000	97	248534	25.0	26.6	
32 Methyl tert-butyl ether	73	7.163	7.163	0.000	98	653312	25.0	25.3	
35 trans-1,2-Dichloroethene	96	7.230	7.230	0.000	97	252252	25.0	26.5	
40 1,1-Dichloroethane	63	7.753	7.747	0.006	97	459699	25.0	25.8	
44 2-Butanone (MEK)	43	8.398	8.392	0.006	98	956729	125.0	138.3	
43 cis-1,2-Dichloroethene	96	8.453	8.446	0.007	83	286615	25.0	27.6	
49 Chloroform	83	8.806	8.799	0.007	95	442729	25.0	26.6	
52 1,1,1-Trichloroethane	97	9.067	9.061	0.006	99	387914	25.0	26.8	
54 Cyclohexane	56	9.134	9.128	0.006	92	428780	25.0	22.9	
55 Carbon tetrachloride	117	9.268	9.268	0.000	96	348899	25.0	26.4	
57 Benzene	78	9.517	9.517	0.000	98	856722	25.0	26.6	
60 1,2-Dichloroethane	62	9.542	9.542	0.000	96	385658	25.0	26.5	
62 Trichloroethene	95	10.272	10.272	0.000	94	250740	25.0	26.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	10.509	10.503	0.006	94	326296	25.0	22.9	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	95	251672	25.0	26.6	
70 Dichlorobromomethane	83	10.910	10.904	0.006	98	302923	25.0	27.0	
73 cis-1,3-Dichloropropene	75	11.446	11.440	0.006	94	317870	25.0	25.5	
75 4-Methyl-2-pentanone (MIBK)	43	11.555	11.549	0.006	96	1840019	125.0	139.9	
76 Toluene	92	11.890	11.884	0.006	98	522448	25.0	26.4	
78 trans-1,3-Dichloropropene	75	12.145	12.145	0.000	93	312435	25.0	26.8	
79 1,1,2-Trichloroethane	83	12.425	12.425	0.000	93	185780	25.0	26.7	
80 Tetrachloroethene	166	12.638	12.632	0.006	97	286257	25.0	26.2	
83 2-Hexanone	43	12.638	12.638	0.000	96	1277849	125.0	145.1	
81 Chlorodibromomethane	129	13.009	13.009	0.000	90	268361	25.0	28.2	
85 Ethylene Dibromide	107	13.210	13.210	0.000	98	264275	25.0	27.0	
87 Chlorobenzene	112	13.800	13.800	0.000	97	680113	25.0	26.4	
89 Ethylbenzene	91	13.867	13.861	0.006	98	990633	25.0	27.6	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	418900		26.5	
93 o-Xylene	106	14.561	14.554	0.007	96	426608		26.9	
94 Styrene	104	14.573	14.573	0.000	96	637494	25.0	28.2	
92 Bromoform	173	14.932	14.925	0.007	99	215122	25.0	29.6	
95 Isopropylbenzene	105	14.999	14.998	0.001	95	1048907	25.0	26.5	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	96	365758	25.0	25.9	
110 1,3-Dichlorobenzene	146	16.678	16.671	0.007	98	629532	25.0	25.8	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	96	631836	25.0	25.2	
116 1,2-Dichlorobenzene	146	17.268	17.262	0.006	99	630967	25.0	25.5	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	91	79335	25.0	25.9	
119 1,2,4-Trichlorobenzene	180	19.312	19.318	-0.006	94	516153	25.0	25.2	
S 126 Xylenes, Total	1				0			53.4	

Reagents:

GAS CORP mix_00193

Amount Added: 12.50

Units: uL

8260 CORP mix_00086

Amount Added: 12.50

Units: uL

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr_00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973P\\20161203-58849.b\\P20911.D

Injection Date: 03-Dec-2016 17:56:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: 480-110087-C-4 MS

Worklist Smp#: 11

Client ID: MW-8

Purge Vol: 5.000 mL

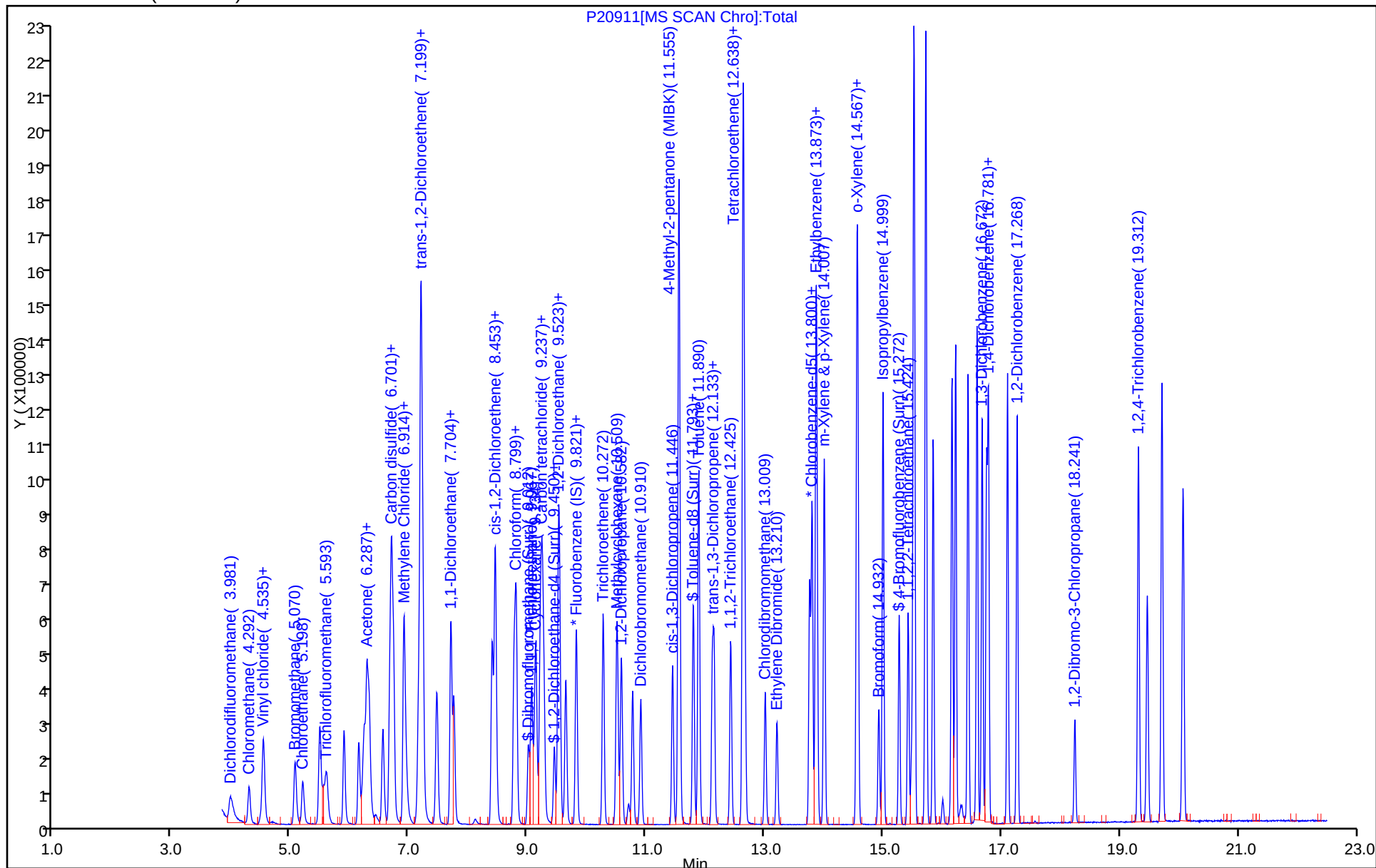
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: P-8260H2O

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-8 MSD</u>	Lab Sample ID: <u>480-110087-4 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>P20912.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>11/23/2016 09:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>12/03/2016 18:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (60)</u> ID: <u>0.25 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>334557</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.5		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.3		1.0	0.21
79-00-5	1,1,2-Trichloroethane	26.7		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.3		1.0	0.31
75-34-3	1,1-Dichloroethane	24.9		1.0	0.38
75-35-4	1,1-Dichloroethene	23.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	25.4		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	25.7		1.0	0.39
106-93-4	1,2-Dibromoethane	26.3		1.0	0.73
95-50-1	1,2-Dichlorobenzene	25.1		1.0	0.79
107-06-2	1,2-Dichloroethane	25.7		1.0	0.21
78-87-5	1,2-Dichloropropane	26.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.8		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.0		1.0	0.84
591-78-6	2-Hexanone	142		5.0	1.2
78-93-3	2-Butanone (MEK)	136		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	137		5.0	2.1
67-64-1	Acetone	140		10	3.0
71-43-2	Benzene	25.8		1.0	0.41
75-27-4	Bromodichloromethane	26.6		1.0	0.39
75-25-2	Bromoform	30.0		1.0	0.26
74-83-9	Bromomethane	25.8		1.0	0.69
75-15-0	Carbon disulfide	23.8		1.0	0.19
56-23-5	Carbon tetrachloride	26.1		1.0	0.27
108-90-7	Chlorobenzene	26.2		1.0	0.75
124-48-1	Dibromochloromethane	28.0		1.0	0.32
75-00-3	Chloroethane	33.7		1.0	0.32
67-66-3	Chloroform	25.9		1.0	0.34
74-87-3	Chloromethane	22.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.9		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.3		1.0	0.36
110-82-7	Cyclohexane	22.5		1.0	0.18
75-71-8	Dichlorodifluoromethane	22.3		1.0	0.68
100-41-4	Ethylbenzene	27.2		1.0	0.74
98-82-8	Isopropylbenzene	26.3		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: MW-8 MSD Lab Sample ID: 480-110087-4 MSD
 Matrix: Water Lab File ID: P20912.D
 Analysis Method: 8260C Date Collected: 11/23/2016 09:45
 Sample wt/vol: 5 (mL) Date Analyzed: 12/03/2016 18:24
 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.: 334557 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	123		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.6		1.0	0.16
108-87-2	Methylcyclohexane	22.6		1.0	0.16
75-09-2	Methylene Chloride	26.1		1.0	0.44
100-42-5	Styrene	28.1		1.0	0.73
127-18-4	Tetrachloroethene	26.1		1.0	0.36
108-88-3	Toluene	26.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.2		1.0	0.37
79-01-6	Trichloroethene	25.5		1.0	0.46
75-69-4	Trichlorofluoromethane	26.6		1.0	0.88
75-01-4	Vinyl chloride	24.4		1.0	0.90
1330-20-7	Xylenes, Total	53.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20912.D
 Lims ID: 480-110087-C-4 MSD
 Client ID: MW-8
 Sample Type: MSD
 Inject. Date: 03-Dec-2016 18:24:30 ALS Bottle#: 24 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-110087-c-4 msd
 Misc. Info.: 480-0058849-012
 Operator ID: RF Instrument ID: HP5973P
 Method: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P-8260H2O.m
 Limit Group: MV - 8260C ICAL
 Last Update: 04-Dec-2016 20:22:37 Calib Date: 29-Nov-2016 21:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973P\20161129-58712.b\P20743.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: gentilej

Date: 04-Dec-2016 21:53:50

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	9.815	9.815	0.000	99	127703	25.0	25.0	
* 2 Chlorobenzene-d5	82	13.758	13.757	0.001	84	266921	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	16.745	16.751	-0.006	92	363152	25.0	25.0	
\$ 148 Dibromofluoromethane (Surr	113	9.012	9.006	0.006	94	183390	25.0	25.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	67	9.450	9.444	0.006	0	103014	25.0	25.9	
\$ 5 Toluene-d8 (Surr)	98	11.799	11.792	0.007	93	593788	25.0	25.6	
\$ 6 4-Bromofluorobenzene (Surr	174	15.272	15.272	0.000	97	256065	25.0	26.8	
10 Dichlorodifluoromethane	85	3.987	3.987	0.000	98	227223	25.0	22.3	
11 Chloromethane	50	4.298	4.304	-0.006	99	192985	25.0	22.6	
17 Vinyl chloride	62	4.529	4.529	0.000	98	159056	25.0	24.4	
12 Bromomethane	94	5.082	5.082	0.000	91	151846	25.0	25.8	
13 Chloroethane	64	5.210	5.210	0.000	98	178706	25.0	33.7	
14 Trichlorofluoromethane	101	5.606	5.605	0.001	97	397399	25.0	26.6	
16 1,1,2-Trichloro-1,2,2-trif	101	6.244	6.244	0.000	89	228164	25.0	22.3	
25 1,1-Dichloroethene	96	6.287	6.287	0.000	95	225284	25.0	23.6	
24 Acetone	43	6.329	6.323	0.006	100	592924	125.0	140.1	
27 Carbon disulfide	76	6.670	6.670	0.000	100	673519	25.0	23.8	
30 Methyl acetate	43	6.701	6.694	0.007	99	1411264	125.0	122.8	
31 Methylene Chloride	84	6.914	6.907	0.007	98	253368	25.0	26.1	
32 Methyl tert-butyl ether	73	7.163	7.163	0.000	98	686887	25.0	25.6	
35 trans-1,2-Dichloroethene	96	7.230	7.230	0.000	96	249668	25.0	25.2	
40 1,1-Dichloroethane	63	7.753	7.747	0.006	97	461120	25.0	24.9	
44 2-Butanone (MEK)	43	8.398	8.392	0.006	99	975773	125.0	135.8	
43 cis-1,2-Dichloroethene	96	8.453	8.446	0.007	83	289141	25.0	26.9	
49 Chloroform	83	8.806	8.799	0.007	95	447140	25.0	25.9	
52 1,1,1-Trichloroethane	97	9.067	9.061	0.006	99	397558	25.0	26.5	
54 Cyclohexane	56	9.134	9.128	0.006	92	437709	25.0	22.5	
55 Carbon tetrachloride	117	9.268	9.268	0.000	96	358844	25.0	26.1	
57 Benzene	78	9.523	9.517	0.006	97	860958	25.0	25.8	
60 1,2-Dichloroethane	62	9.542	9.542	0.000	97	389405	25.0	25.7	
62 Trichloroethene	95	10.272	10.272	0.000	93	254682	25.0	25.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	10.509	10.503	0.006	95	334483	25.0	22.6	
63 1,2-Dichloropropane	63	10.582	10.582	0.000	97	257236	25.0	26.2	
70 Dichlorobromomethane	83	10.910	10.904	0.006	99	310826	25.0	26.6	
73 cis-1,3-Dichloropropene	75	11.446	11.440	0.006	94	328467	25.0	25.3	
75 4-Methyl-2-pentanone (MIBK)	43	11.555	11.549	0.006	96	1876288	125.0	136.9	
76 Toluene	92	11.890	11.884	0.006	99	541793	25.0	26.3	
78 trans-1,3-Dichloropropene	75	12.145	12.145	0.000	94	318707	25.0	26.2	
79 1,1,2-Trichloroethane	83	12.425	12.425	0.000	91	193951	25.0	26.7	
80 Tetrachloroethene	166	12.638	12.632	0.006	94	297331	25.0	26.1	
83 2-Hexanone	43	12.638	12.638	0.000	95	1307685	125.0	142.4	
81 Chlorodibromomethane	129	13.009	13.009	0.000	90	276961	25.0	28.0	
85 Ethylene Dibromide	107	13.210	13.210	0.000	99	268895	25.0	26.3	
87 Chlorobenzene	112	13.800	13.800	0.000	97	703582	25.0	26.2	
89 Ethylbenzene	91	13.867	13.861	0.006	98	1015085	25.0	27.2	
90 m-Xylene & p-Xylene	106	14.007	14.007	0.000	0	441751		26.8	
93 o-Xylene	106	14.561	14.554	0.007	96	434314		26.3	
94 Styrene	104	14.573	14.573	0.000	95	663476	25.0	28.1	
92 Bromoform	173	14.932	14.925	0.007	98	226991	25.0	30.0	
95 Isopropylbenzene	105	14.999	14.998	0.001	95	1063088	25.0	26.3	
97 1,1,2,2-Tetrachloroethane	83	15.424	15.424	0.000	97	363985	25.0	25.3	
110 1,3-Dichlorobenzene	146	16.672	16.671	0.001	98	642529	25.0	25.8	
111 1,4-Dichlorobenzene	146	16.781	16.781	0.000	96	639070	25.0	25.0	
116 1,2-Dichlorobenzene	146	17.268	17.262	0.006	99	635428	25.0	25.1	
117 1,2-Dibromo-3-Chloropropan	75	18.241	18.241	0.000	89	80474	25.0	25.7	
119 1,2,4-Trichlorobenzene	180	19.312	19.318	-0.006	94	530266	25.0	25.4	
S 126 Xylenes, Total	1				0			53.1	

Reagents:

GAS CORP mix_00193

Amount Added: 12.50

Units: uL

8260 CORP mix_00086

Amount Added: 12.50

Units: uL

P 8260 IS_00187

Amount Added: 1.25

Units: uL

Run Reagent

P 8260 Surr_00200

Amount Added: 1.25

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973P\20161203-58849.b\P20912.D

Injection Date: 03-Dec-2016 18:24:30

Instrument ID: HP5973P

Operator ID: RF

Lims ID: 480-110087-C-4 MSD

Worklist Smp#: 12

Client ID: MW-8

Purge Vol: 5.000 mL

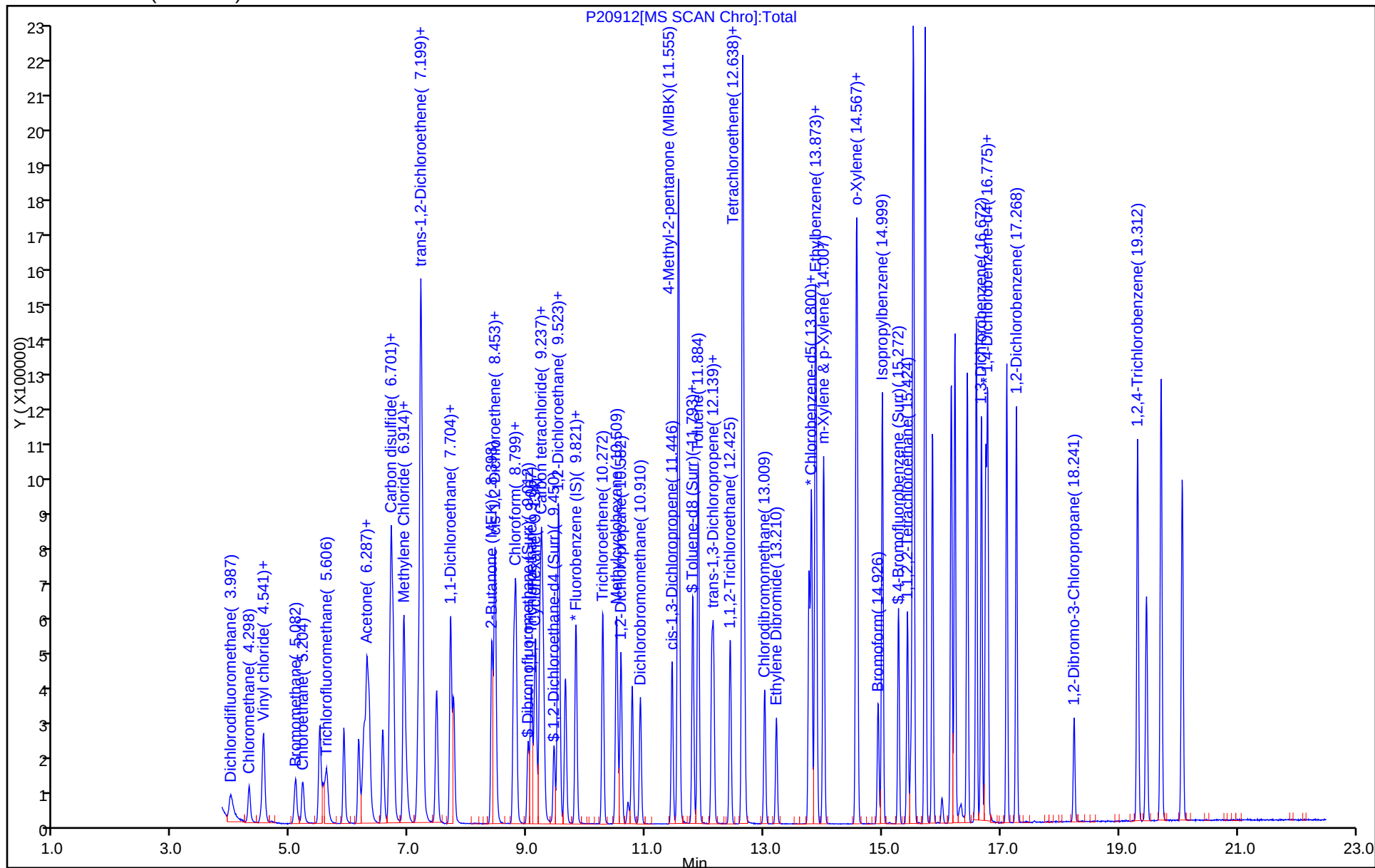
Dil. Factor: 1.0000

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 BuffaloJob No.: 480-110087-1

SDG No.: _____

Instrument ID: HP5973PStart Date: 11/29/2016 13:45Analysis Batch Number: 333850End Date: 11/29/2016 23:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-333850/3		11/29/2016 13:45	1	P20727.D	ZB-624 (60) 0.25 (mm)
IC 480-333850/5		11/29/2016 14:39	1	P20729.D	ZB-624 (60) 0.25 (mm)
IC 480-333850/6		11/29/2016 15:06	1	P20730.D	ZB-624 (60) 0.25 (mm)
IC 480-333850/7		11/29/2016 15:33	1	P20731.D	ZB-624 (60) 0.25 (mm)
IC 480-333850/8		11/29/2016 16:01	1	P20732.D	ZB-624 (60) 0.25 (mm)
ICIS 480-333850/9		11/29/2016 16:28	1	P20733.D	ZB-624 (60) 0.25 (mm)
IC 480-333850/10		11/29/2016 16:56	1	P20734.D	ZB-624 (60) 0.25 (mm)
IC 480-333850/11		11/29/2016 17:23	1	P20735.D	ZB-624 (60) 0.25 (mm)
IC 480-333850/13		11/29/2016 18:18	1		ZB-624 (60) 0.25 (mm)
IC 480-333850/14		11/29/2016 18:45	1		ZB-624 (60) 0.25 (mm)
IC 480-333850/15		11/29/2016 19:13	1		ZB-624 (60) 0.25 (mm)
IC 480-333850/16		11/29/2016 19:40	1		ZB-624 (60) 0.25 (mm)
IC 480-333850/17		11/29/2016 20:07	1		ZB-624 (60) 0.25 (mm)
IC 480-333850/18		11/29/2016 20:35	1		ZB-624 (60) 0.25 (mm)
IC 480-333850/19		11/29/2016 21:02	1		ZB-624 (60) 0.25 (mm)
MDLV 480-333850/21		11/29/2016 21:57	1		ZB-624 (60) 0.25 (mm)
ICV 480-333850/23		11/29/2016 22:52	1		ZB-624 (60) 0.25 (mm)
ICV 480-333850/24		11/29/2016 23:20	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-110087-1

SDG No.: _____

Instrument ID: HP5973PStart Date: 11/30/2016 12:41Analysis Batch Number: 334061End Date: 11/30/2016 20:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-334061/2		11/30/2016 12:41	1	P20750.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-334061/3		11/30/2016 13:08	1	P20751.D	ZB-624 (60) 0.25 (mm)
CCV 480-334061/4		11/30/2016 13:36	1		ZB-624 (60) 0.25 (mm)
LCS 480-334061/17		11/30/2016 15:57	1	P20755.D	ZB-624 (60) 0.25 (mm)
RL 480-334061/18		11/30/2016 16:24	1		ZB-624 (60) 0.25 (mm)
MB 480-334061/7		11/30/2016 16:52	1	P20757.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		11/30/2016 17:35	100		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/30/2016 18:02	1		ZB-624 (60) 0.25 (mm)
480-110087-7		11/30/2016 18:30	1	P20760.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		11/30/2016 18:57	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/30/2016 19:25	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/30/2016 19:52	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/30/2016 20:20	100		ZB-624 (60) 0.25 (mm)
ZZZZZ		11/30/2016 20:47	100		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-110087-1

SDG No.: _____

Instrument ID: HP5973PStart Date: 12/03/2016 08:51Analysis Batch Number: 334557End Date: 12/03/2016 18:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-334557/1		12/03/2016 08:51	1	P20889.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-334557/2		12/03/2016 09:24	1	P20890.D	ZB-624 (60) 0.25 (mm)
CCV 480-334557/3		12/03/2016 09:55	1		ZB-624 (60) 0.25 (mm)
LCS 480-334557/4		12/03/2016 10:23	1	P20892.D	ZB-624 (60) 0.25 (mm)
RL 480-334557/5		12/03/2016 10:50	1		ZB-624 (60) 0.25 (mm)
MB 480-334557/6		12/03/2016 11:17	1	P20894.D	ZB-624 (60) 0.25 (mm)
480-110087-1		12/03/2016 12:00	1	P20895.D	ZB-624 (60) 0.25 (mm)
480-110087-2		12/03/2016 12:28	1	P20896.D	ZB-624 (60) 0.25 (mm)
480-110087-3		12/03/2016 12:55	1	P20897.D	ZB-624 (60) 0.25 (mm)
480-110087-4		12/03/2016 13:23	1	P20898.D	ZB-624 (60) 0.25 (mm)
480-110087-5		12/03/2016 13:50	1	P20899.D	ZB-624 (60) 0.25 (mm)
480-110087-6		12/03/2016 14:17	1	P20900.D	ZB-624 (60) 0.25 (mm)
480-110087-8		12/03/2016 14:45	1	P20901.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		12/03/2016 15:12	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		12/03/2016 15:40	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		12/03/2016 16:07	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		12/03/2016 16:34	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		12/03/2016 17:01	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		12/03/2016 17:29	5		ZB-624 (60) 0.25 (mm)
480-110087-4 MS		12/03/2016 17:56	1	P20911.D	ZB-624 (60) 0.25 (mm)
480-110087-4 MSD		12/03/2016 18:24	1	P20912.D	ZB-624 (60) 0.25 (mm)

GC/MS VOA Worksheet

Batch Number: 480-334061

Method: 8260C

Analyst: Reile, Rebecca S

Date Open: Nov 30 2016 12:41PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	8260 CORP mix_00086	ADD CORP mix_00052
BFB~480-334061/2		8260C			1 uL	1 uL	HP5973P		
CCVIS~480-334061/3		8260C			5 mL	5 mL	HP5973P	12.5 uL	
CCV~480-334061/4		8260C			5 mL	5 mL	HP5973P		12.5 uL
MB~480-334061/7		8260C			5 mL	5 mL	HP5973P		
480-109964-A-1	TB-04	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-109964-E-2	MW-30I	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-109964-E-3	EB-04	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-109964-E-4	FB-04	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110087-A-7	TRIP BLANK	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
LCS~480-334061/17		8260C			5 mL	5 mL	HP5973P	12.5 uL	
RL~480-334061/18					5 mL	5 mL	HP5973P	1 uL	
480-109874-A-2	R 601N-LIQUID	8260C	T	7 SU	5 mL	5 mL	HP5973P		
480-109874-A-2~MS		8260C	T	7 SU	5 mL	5 mL	HP5973P	12.5 uL	
480-109874-A-2~MS D		8260C	T	7 SU	5 mL	5 mL	HP5973P	12.5 uL	

GC/MS VOA Worksheet

Batch Number: 480-334061

Method: 8260C

Analyst: Reile, Rebecca S

Date Open: Nov 30 2016 12:41PM

Batch End:

Lab ID	Client ID	Method Chain	Basis	BFB_WRK_00057	GAS CORP mix_00192	P 8260 IS_00183	P 8260 Surr._00200
BFB~480-334061/2		8260C		1 uL			
CCVIS~480-334061/3		8260C			12.5 uL	1.25 uL	1.25 uL
CCV~480-334061/4		8260C				1.25 uL	1.25 uL
MB~480-334061/7		8260C				1.25 uL	1.25 uL
480-109964-A-1	TB-04	8260C	T			1.25 uL	1.25 uL
480-109964-E-2	MW-30I	8260C	T			1.25 uL	1.25 uL
480-109964-E-3	EB-04	8260C	T			1.25 uL	1.25 uL
480-109964-E-4	FB-04	8260C	T			1.25 uL	1.25 uL
480-110087-A-7	TRIP BLANK	8260C	T			1.25 uL	1.25 uL
LCS~480-334061/17		8260C			12.5 uL	1.25 uL	1.25 uL
RL~480-334061/18					1 uL	1.25 uL	1.25 uL
480-109874-A-2	R 601N-LIQUID	8260C	T			1.25 uL	1.25 uL
480-109874-A-2~MS		8260C	T		12.5 uL	1.25 uL	1.25 uL
480-109874-A-2~MS D		8260C	T		12.5 uL	1.25 uL	1.25 uL

GC/MS VOA Worksheet

Batch Number: 480-334557

Method: 8260C

Analyst: Gentile, Joseph W

Date Open: Dec 03 2016 8:51AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	8260 CORP mix_00086	ADD CORP mix_00052
BFB~480-334557/1		8260C			1 uL	1 uL	HP5973P		
CCVIS~480-334557/2		8260C			5 mL	5 mL	HP5973P	12.5 uL	
CCV~480-334557/3		8260C			5 mL	5 mL	HP5973P		12.5 uL
LCS~480-334557/4		8260C			5 mL	5 mL	HP5973P	12.5 uL	
RL~480-334557/5					5 mL	5 mL	HP5973P	1 uL	
MB~480-334557/6		8260C			5 mL	5 mL	HP5973P		
480-110087-D-1	MW-5R	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110087-D-2	MW-4	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110087-D-3	MW-6	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110087-D-4	MW-8	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110087-C-4~M S	MW-8	8260C	T	<2 SU	5 mL	5 mL	HP5973P	12.5 uL	
480-110087-C-4~M SD	MW-8	8260C	T	<2 SU	5 mL	5 mL	HP5973P	12.5 uL	
480-110087-D-5	MW-7	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110087-D-6	MW-2R	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110087-D-8	DUP-112216	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110137-B-1	MW-3	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110137-B-2	MW-6	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110137-B-3	MW-7	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110137-B-4	MW-9	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110137-B-5	MW-22	8260C	T	<2 SU	5 mL	5 mL	HP5973P		
480-110137-B-6	MW-22D	8260C	T	<2 SU	5 mL	5 mL	HP5973P		

GC/MS VOA Worksheet

Batch Number: 480-334557

Method: 8260C

Analyst: Gentile, Joseph W

Date Open: Dec 03 2016 8:51AM

Batch End:

Lab ID	Client ID	Method Chain	Basis	BFB_WRK_00057	GAS CORP mix_00193	P 8260 IS_00187	P 8260 Surr._00200
BFB~480-334557/1		8260C		1 uL			
CCVIS~480-334557/2		8260C			12.5 uL	1.25 uL	1.25 uL
CCV~480-334557/3		8260C				1.25 uL	1.25 uL
LCS~480-334557/4		8260C			12.5 uL	1.25 uL	1.25 uL
RL~480-334557/5					1 uL	1.25 uL	1.25 uL
MB~480-334557/6		8260C				1.25 uL	1.25 uL
480-110087-D-1	MW-5R	8260C	T			1.25 uL	1.25 uL
480-110087-D-2	MW-4	8260C	T			1.25 uL	1.25 uL
480-110087-D-3	MW-6	8260C	T			1.25 uL	1.25 uL
480-110087-D-4	MW-8	8260C	T			1.25 uL	1.25 uL
480-110087-C-4~M S	MW-8	8260C	T		12.5 uL	1.25 uL	1.25 uL
480-110087-C-4~M SD	MW-8	8260C	T		12.5 uL	1.25 uL	1.25 uL
480-110087-D-5	MW-7	8260C	T			1.25 uL	1.25 uL
480-110087-D-6	MW-2R	8260C	T			1.25 uL	1.25 uL
480-110087-D-8	DUP-112216	8260C	T			1.25 uL	1.25 uL
480-110137-B-1	MW-3	8260C	T			1.25 uL	1.25 uL
480-110137-B-2	MW-6	8260C	T			1.25 uL	1.25 uL
480-110137-B-3	MW-7	8260C	T			1.25 uL	1.25 uL
480-110137-B-4	MW-9	8260C	T			1.25 uL	1.25 uL
480-110137-B-5	MW-22	8260C	T			1.25 uL	1.25 uL
480-110137-B-6	MW-22D	8260C	T			1.25 uL	1.25 uL

Method 8082A

Polychlorinated Biphenyls (PCBs)
(GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
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	480-110087-1	101	95	116	109
MW-4	480-110087-2	94	92	77	76
MW-6	480-110087-3	93	92	75	72
MW-8	480-110087-4	87	93	66	64
MW-7	480-110087-5	76	87	62	61
MW-2R	480-110087-6	100	87	63	58
DUP-112216	480-110087-8	95	104	84	85
	MB 480-333619/1-A	83	85	69	60
	LCS 480-333619/2-A	99	83	65	59
MW-8 MS	480-110087-4 MS	101	87	68	69
MW-8 MSD	480-110087-4 MSD	89	99	70	68

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

QC LIMITS
39-121
19-120

Column to be used to flag recovery values

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 6_15-233.D

Lab ID: LCS 480-333619/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	4.00	3.67	92	62-130	
PCB-1260	4.00	3.34	84	56-123	

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 6_15-236.D
Lab ID: 480-110087-4 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	3.90	ND	3.73	96	28-150	
PCB-1260	3.90	ND	2.83	72	25-131	

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 6_15-237.D
 Lab ID: 480-110087-4 MSD Client ID: MW-8 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1016	3.79	4.03	106	8	50	28-150	
PCB-1260	3.79	3.07	81	8	50	25-131	

Column to be used to flag recovery and RPD values

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: MB 480-333619/1-A
 Matrix: Water Date Extracted: 11/28/2016 07:50
 Lab File ID: (1) 6_15-232.D Lab File ID: (2) 6_15-232.D
 Date Analyzed: (1) 11/29/2016 01:29 Date Analyzed: (2) 11/29/2016 01:29
 Instrument ID: (1) HP6890-6 Instrument ID: (2) HP6890-6
 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 480-333619/2-A	11/29/2016 01:45	11/29/2016 01:45
MW-8 MS	480-110087-4 MS	11/29/2016 02:33	11/29/2016 02:33
MW-8 MSD	480-110087-4 MSD	11/29/2016 02:49	11/29/2016 02:49
MW-4	480-110087-2	11/29/2016 03:53	11/29/2016 03:53
MW-6	480-110087-3	11/29/2016 04:09	11/29/2016 04:09
MW-8	480-110087-4	11/29/2016 04:25	11/29/2016 04:25
MW-7	480-110087-5	11/29/2016 04:41	11/29/2016 04:41
MW-2R	480-110087-6	11/29/2016 04:57	11/29/2016 04:57
DUP-112216	480-110087-8	11/29/2016 05:13	11/29/2016 05:13
MW-5R	480-110087-1	11/29/2016 05:45	11/29/2016 05:45

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Sample No.: ICIS 480-320599/5 Date Analyzed: 09/15/2016 20:32
Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm)
Lab File ID (Standard): 6_10-149.D Heated Purge: (Y/N) N
Calibration ID: 28347

	BNB					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	29194051	1.16				
UPPER LIMIT	58388102	1.66				
LOWER LIMIT	14597026	0.66				
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-333712/4		8133323	1.08			

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Sample No.: ICIS 480-320599/5 Date Analyzed: 09/15/2016 20:32
Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm)
Lab File ID (Standard): 6_10-149.D Heated Purge: (Y/N) N
Calibration ID: 28348

	BNB					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	52065101	1.14				
UPPER LIMIT	104130202	1.64				
LOWER LIMIT	26032551	0.64				
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-333712/4		39789706	1.10			

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Sample No.: CCVIS 480-333712/4 Date Analyzed: 11/28/2016 14:58
 Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm)
 Lab File ID (Standard): 6_15-194.D Heated Purge: (Y/N) N
 Calibration ID: 28994

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		8133323	1.08				
UPPER LIMIT		16266646	1.58				
LOWER LIMIT		4066662	0.58				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-333712/33		8351509	1.08				
CCV 480-333712/34		7886582	1.09				
CCV 480-333712/35		7898257	1.08				
CCV 480-333712/36		7588915	1.08				
CCV 480-333712/37		7465521	1.08				
MB 480-333619/1-A		6672484	1.08				
LCS 480-333619/2-A		6265530	1.08				
480-110087-4 MS	MW-8 MS	6720499	1.08				
480-110087-4 MSD	MW-8 MSD	6454756	1.08				
480-110087-2	MW-4	6949533	1.08				
480-110087-3	MW-6	6552602	1.09				
480-110087-4	MW-8	6767088	1.08				
480-110087-5	MW-7	7258561	1.08				
480-110087-6	MW-2R	6292521	1.08				
480-110087-8	DUP-112216	6513812	1.08				
480-110087-1	MW-5R	6343064	1.08				

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Sample No.: CCVIS 480-333712/4 Date Analyzed: 11/28/2016 14:58
 Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm)
 Lab File ID (Standard): 6_15-194.D Heated Purge: (Y/N) N
 Calibration ID: 28995

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		39789706	1.10				
UPPER LIMIT		79579412	1.60				
LOWER LIMIT		19894853	0.60				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-333712/33		40704267	1.10				
CCV 480-333712/34		38138493	1.10				
CCV 480-333712/35		38064037	1.10				
CCV 480-333712/36		36716056	1.10				
CCV 480-333712/37		36221099	1.09				
MB 480-333619/1-A		35920158	1.10				
LCS 480-333619/2-A		33765364	1.09				
480-110087-4 MS	MW-8 MS	37129092	1.10				
480-110087-4 MSD	MW-8 MSD	34910565	1.10				
480-110087-2	MW-4	36585251	1.10				
480-110087-3	MW-6	35792535	1.10				
480-110087-4	MW-8	37277895	1.10				
480-110087-5	MW-7	38846068	1.10				
480-110087-6	MW-2R	35279946	1.10				
480-110087-8	DUP-112216	34858982	1.10				
480-110087-1	MW-5R	35250516	1.10				

BNB = 1-Bromo-2-nitrobenzene

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

Column used to flag values outside QC limits

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: MW-8 MS Lab Sample ID: 480-110087-4 MS
 Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6
 Date Analyzed (1): 11/29/2016 02:33 Date Analyzed (2): 11/29/2016 02:33
 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	2.64	2.61	2.67	3.65	4.23	12.4
		2	2.80	2.76	2.82	4.41		
		3	3.01	2.98	3.04	3.81		
		4	3.09	3.06	3.12	4.47		
		5	3.16	3.12	3.18	4.80		
	2	1	2.53	2.50	2.56	3.28	3.73	
		2	2.85	2.82	2.88	3.82		
		3	2.97	2.94	3.00	4.17		
		4	3.07	3.04	3.10	3.37		
		5	3.36	3.33	3.39	4.04		
PCB-1260	1	1	4.90	4.86	4.92	5.23	4.33	42.0
		2	5.03	5.00	5.06	3.74		
		3	5.22	5.18	5.24	3.96		
		4	5.42	5.39	5.45	4.14		
		5	5.66	5.63	5.69	4.60		
	2	1	4.75	4.72	4.78	3.83	2.83	
		2	4.80	4.77	4.83	2.49		
		3	5.06	5.03	5.09	2.76		
		4	5.20	5.17	5.23	2.30		
		5	5.53	5.51	5.57	2.75		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Client Sample ID: MW-8 MSD Lab Sample ID: 480-110087-4 MSD
 Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6
 Date Analyzed (1): 11/29/2016 02:49 Date Analyzed (2): 11/29/2016 02:49
 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	2.64	2.61	2.67	3.51	4.35	7.6
		2	2.79	2.76	2.82	4.44		
		3	3.01	2.98	3.04	4.03		
		4	3.09	3.06	3.12	4.88		
		5	3.15	3.12	3.18	4.91		
	2	1	2.53	2.50	2.56	3.72	4.03	
		2	2.85	2.82	2.88	4.02		
		3	2.97	2.94	3.00	4.46		
		4	3.07	3.04	3.10	3.68		
		5	3.36	3.33	3.39	4.30		
PCB-1260	1	1	4.90	4.86	4.92	5.30	4.50	38.0
		2	5.02	5.00	5.06	3.86		
		3	5.22	5.18	5.24	4.08		
		4	5.42	5.39	5.45	4.29		
		5	5.66	5.63	5.69	4.98		
	2	1	4.75	4.72	4.78	4.34	3.07	
		2	4.80	4.77	4.83	2.70		
		3	5.06	5.03	5.09	2.96		
		4	5.20	5.17	5.23	2.41		
		5	5.53	5.51	5.57	2.93		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-333619/2-A

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 11/29/2016 01:45 Date Analyzed (2): 11/29/2016 01:45

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	2.64	2.61	2.67	3.86	4.56	21.5
		2	2.79	2.77	2.83	4.77		
		3	3.01	2.98	3.04	4.11		
		4	3.09	3.06	3.12	5.03		
		5	3.15	3.12	3.18	5.04		
	2	1	2.53	2.50	2.56	3.46	3.67	
		2	2.85	2.82	2.88	3.83		
		3	2.97	2.94	3.00	3.98		
		4	3.07	3.04	3.10	3.17		
		5	3.36	3.33	3.39	3.94		
PCB-1260	1	1	4.89	4.86	4.92	5.66	4.95	38.8
		2	5.03	4.99	5.05	4.22		
		3	5.22	5.18	5.24	4.51		
		4	5.42	5.39	5.45	4.84		
		5	5.66	5.63	5.69	5.49		
	2	1	4.75	4.72	4.78	4.57	3.34	
		2	4.80	4.77	4.83	2.95		
		3	5.06	5.03	5.09	3.30		
		4	5.20	5.17	5.23	2.75		
		5	5.53	5.50	5.56	3.15		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Client Sample ID: MW-5R Lab Sample ID: 480-110087-1
Matrix: Water Lab File ID: 6_15-248.D
Analysis Method: 8082A Date Collected: 11/22/2016 12:35
Extraction Method: 3510C Date Extracted: 11/28/2016 12:03
Sample wt/vol: 267.9(mL) Date Analyzed: 11/29/2016 05:45
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	116		19-120
877-09-8	Tetrachloro-m-xylene	101		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-248.D
 Lims ID: 480-110087-A-1-A
 Client ID: MW-5R
 Sample Type: Client
 Inject. Date: 29-Nov-2016 05:45:12 ALS Bottle#: 0 Worklist Smp#: 58
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:22:55 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj Date: 29-Nov-2016 13:22:55

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.080	1.081	-0.001	6343064	0.5000
2	1.097	1.096	0.001	35250516	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.034	2.034	0.000	263835	0.0202
2	1.756	1.756	0.000	1132951	0.0191

RPD = 5.56

14 1260 Res 2

1	5.702	5.721	-0.019	7007	NR
2	5.132	5.129	0.003	7860	NR

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.732	6.735	-0.003	203977	0.0232
2	6.463	6.463	0.001	1039180	0.0219

RPD = 5.91

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019	Amount Added: 20.00	Units: uL	Run Reagent
COPPER_00063	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 29-Nov-2016 13:22:56

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-248.D

Injection Date: 29-Nov-2016 05:45:12

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-A-1-A

Lab Sample ID: 480-110087-1

Worklist Smp#: 58

Client ID: MW-5R

Injection Vol: 1.0 ul

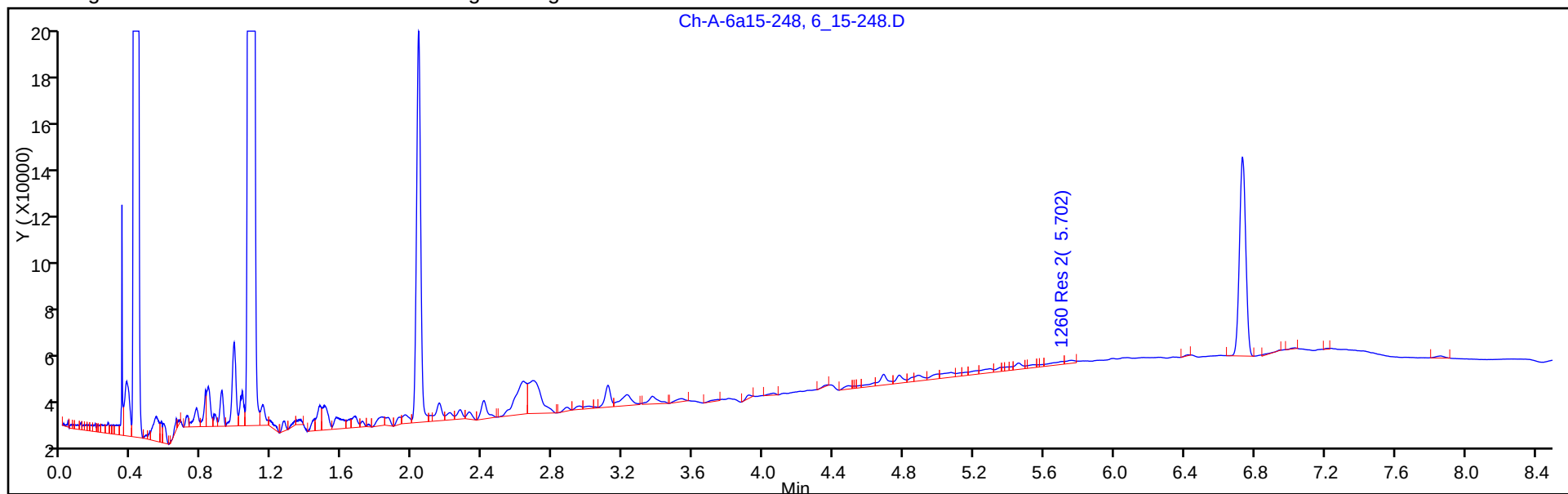
Dil. Factor: 1.0000

ALS Bottle#: 0

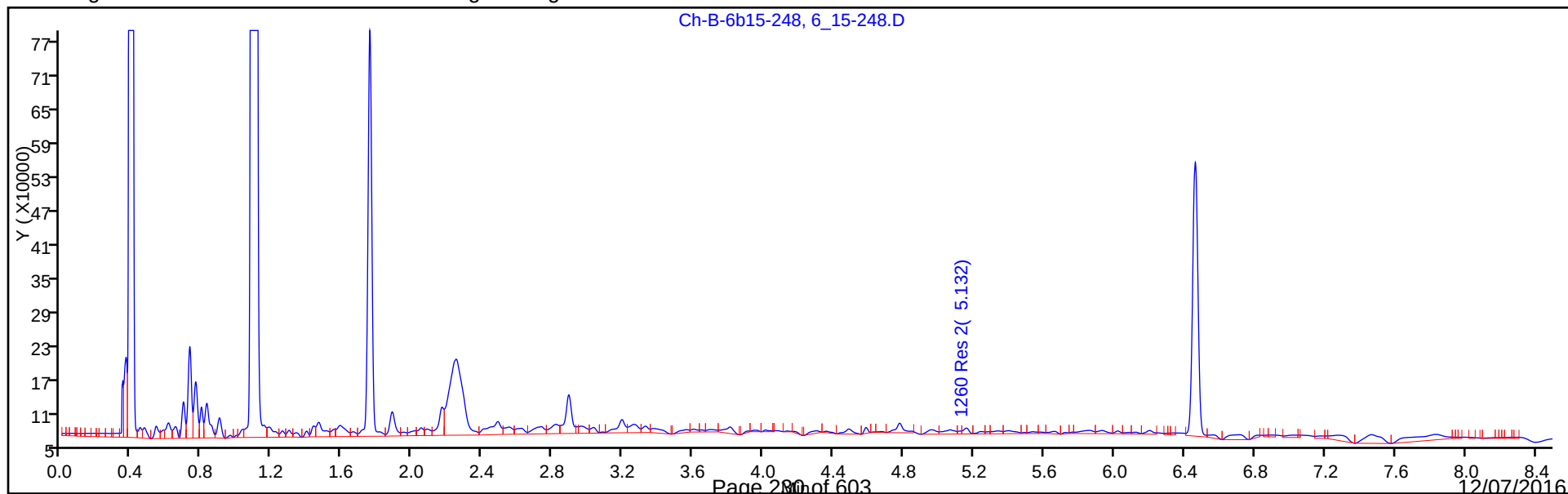
Method: 6890-6 PCB

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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-5R</u>	Lab Sample ID: <u>480-110087-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>6_15-248.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/22/2016 12:35</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/28/2016 12:03</u>
Sample wt/vol: <u>267.9(mL)</u>	Date Analyzed: <u>11/29/2016 05:45</u>
Con. Extract Vol.: <u>2(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>333712</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.47	0.16
11104-28-2	PCB-1221	ND		0.47	0.16
11141-16-5	PCB-1232	ND		0.47	0.16
53469-21-9	PCB-1242	ND		0.47	0.16
12672-29-6	PCB-1248	ND		0.47	0.16
11097-69-1	PCB-1254	ND		0.47	0.23
11096-82-5	PCB-1260	ND		0.47	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	109		19-120
877-09-8	Tetrachloro-m-xylene	95		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-248.D
 Lims ID: 480-110087-A-1-A
 Client ID: MW-5R
 Sample Type: Client
 Inject. Date: 29-Nov-2016 05:45:12 ALS Bottle#: 0 Worklist Smp#: 58
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:22:55 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj Date: 29-Nov-2016 13:22:55

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.080	1.081	-0.001	6343064	0.5000
2	1.097	1.096	0.001	35250516	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.034	2.034	0.000	263835	0.0202
2	1.756	1.756	0.000	1132951	0.0191

RPD = 5.56

14 1260 Res 2

1	5.702	5.721	-0.019	7007	NR
2	5.132	5.129	0.003	7860	NR

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.732	6.735	-0.003	203977	0.0232
2	6.463	6.463	0.001	1039180	0.0219

RPD = 5.91

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019	Amount Added: 20.00	Units: uL	Run Reagent
COPPER_00063	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 29-Nov-2016 13:22:56

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-248.D

Injection Date: 29-Nov-2016 05:45:12

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-A-1-A

Lab Sample ID: 480-110087-1

Worklist Smp#: 58

Client ID: MW-5R

Injection Vol: 1.0 ul

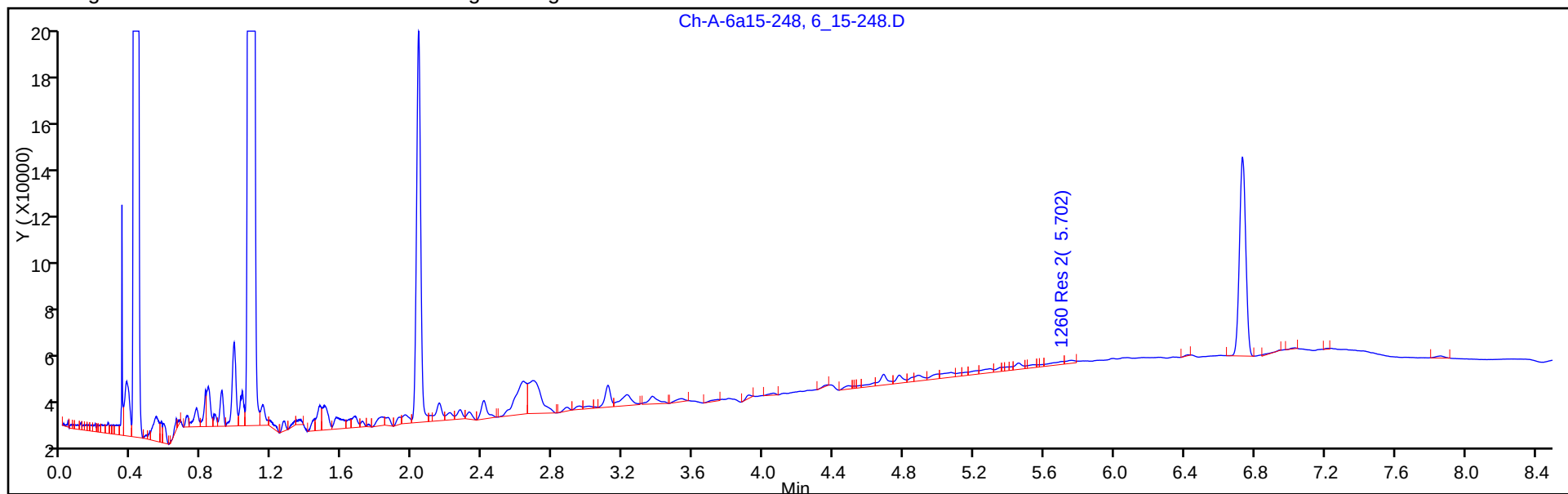
Dil. Factor: 1.0000

ALS Bottle#: 0

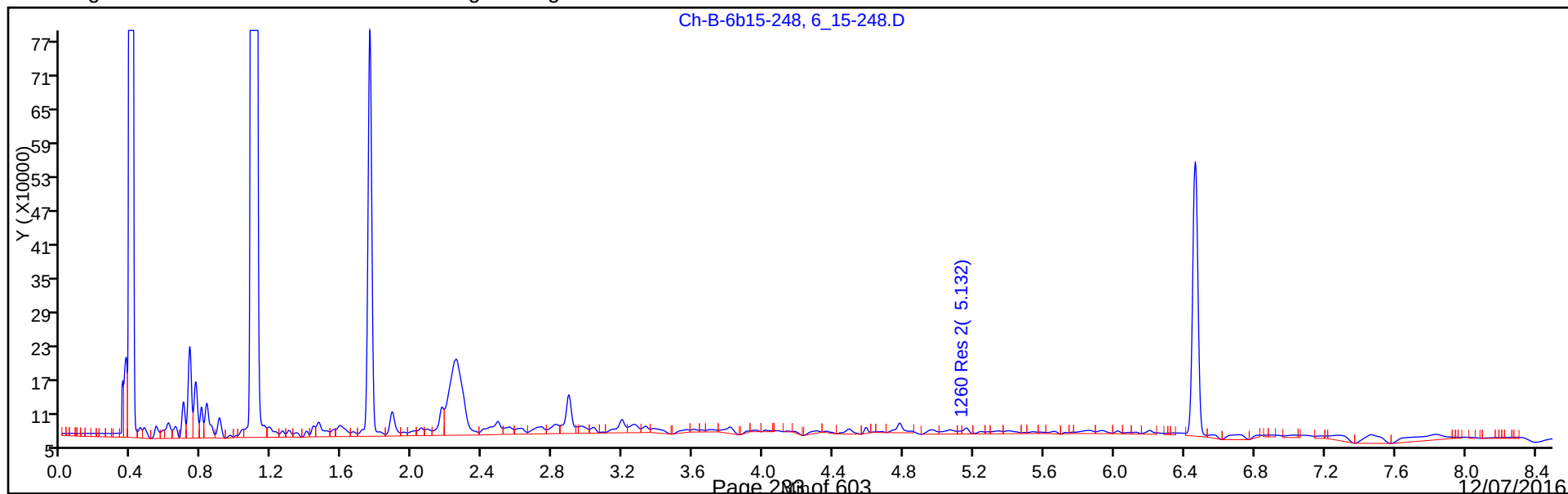
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Client Sample ID: MW-4 Lab Sample ID: 480-110087-2
Matrix: Water Lab File ID: 6_15-241.D
Analysis Method: 8082A Date Collected: 11/22/2016 13:50
Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
Sample wt/vol: 259.6(mL) Date Analyzed: 11/29/2016 03:53
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	77		19-120
877-09-8	Tetrachloro-m-xylene	94		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-241.D
 Lims ID: 480-110087-B-2-A
 Client ID: MW-4
 Sample Type: Client
 Inject. Date: 29-Nov-2016 03:53:23 ALS Bottle#: 0 Worklist Smp#: 51
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:19:14 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj Date: 29-Nov-2016 13:19:14

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.082	1.081	0.001	6949533	0.5000	
2	1.096	1.096	0.000	36585251	0.5000	
RPD = 0.00						

\$ 2 Tetrachloro-m-xylene

1	2.036	2.034	0.002	270388	0.0189	
2	1.756	1.756	0.000	1136852	0.0184	
RPD = 2.26						

9 1260 Res 1

1	5.643	5.660	-0.018	6504	NR	
2	5.063	5.063	0.000	11483	NR	
RPD = NaN						

\$ 15 DCB Decachlorobiphenyl

1	6.733	6.735	-0.002	149793	0.0154	
2	6.463	6.463	0.000	756757	0.0151	
RPD = 1.73						

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019	Amount Added: 20.00	Units: uL	Run Reagent
COPPER_00063	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 29-Nov-2016 13:19:15

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-241.D

Injection Date: 29-Nov-2016 03:53:23

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-B-2-A

Lab Sample ID: 480-110087-2

Worklist Smp#: 51

Client ID: MW-4

Injection Vol: 1.0 ul

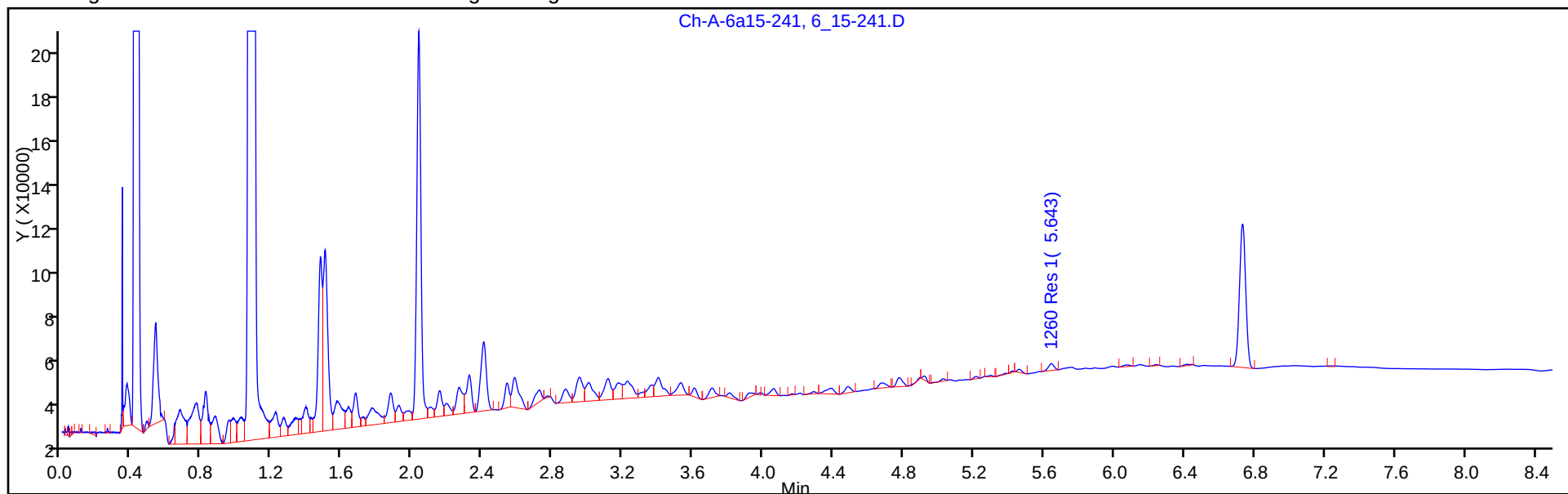
Dil. Factor: 1.0000

ALS Bottle#: 0

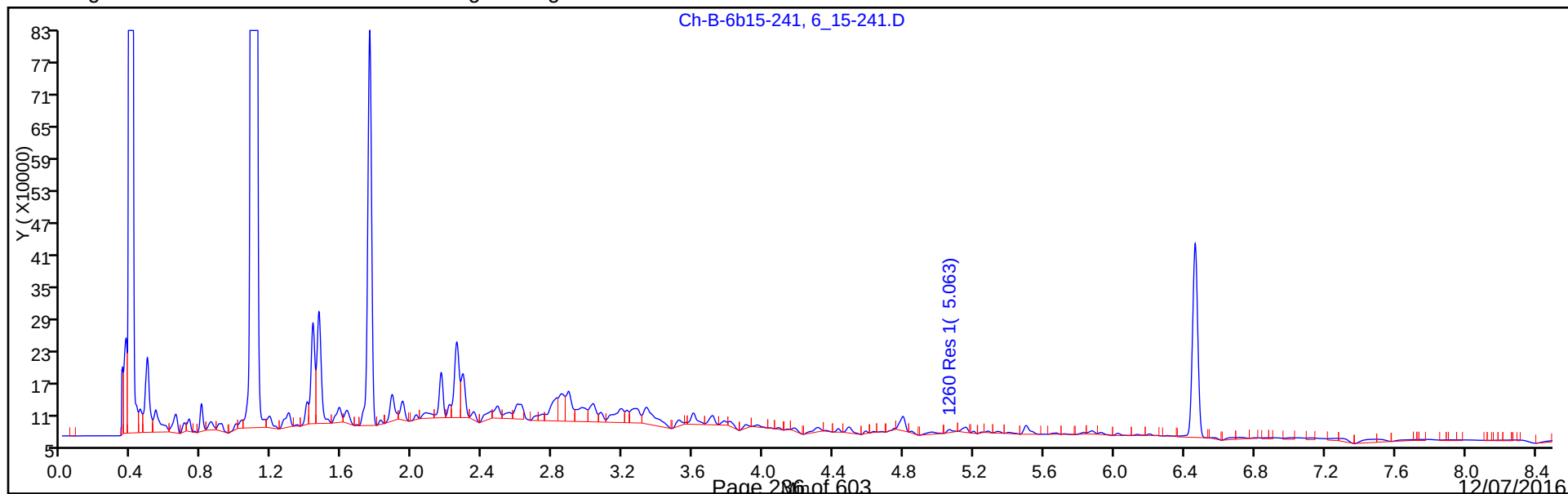
Method: 6890-6 PCB

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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-4</u>	Lab Sample ID: <u>480-110087-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>6_15-241.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/22/2016 13:50</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/28/2016 07:50</u>
Sample wt/vol: <u>259.6(mL)</u>	Date Analyzed: <u>11/29/2016 03:53</u>
Con. Extract Vol.: <u>2(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53(mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>333712</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.48	0.17
11104-28-2	PCB-1221	ND		0.48	0.17
11141-16-5	PCB-1232	ND		0.48	0.17
53469-21-9	PCB-1242	ND		0.48	0.17
12672-29-6	PCB-1248	ND		0.48	0.17
11097-69-1	PCB-1254	ND		0.48	0.24
11096-82-5	PCB-1260	ND		0.48	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	76		19-120
877-09-8	Tetrachloro-m-xylene	92		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-241.D
 Lims ID: 480-110087-B-2-A
 Client ID: MW-4
 Sample Type: Client
 Inject. Date: 29-Nov-2016 03:53:23 ALS Bottle#: 0 Worklist Smp#: 51
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:19:14 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj Date: 29-Nov-2016 13:19:14

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.082	1.081	0.001	6949533	0.5000
2	1.096	1.096	0.000	36585251	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.036	2.034	0.002	270388	0.0189
2	1.756	1.756	0.000	1136852	0.0184

RPD = 2.26

9 1260 Res 1

1	5.643	5.660	-0.018	6504	NR
2	5.063	5.063	0.000	11483	NR

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.733	6.735	-0.002	149793	0.0154
2	6.463	6.463	0.000	756757	0.0151

RPD = 1.73

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019	Amount Added: 20.00	Units: uL	Run Reagent
COPPER_00063	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 29-Nov-2016 13:19:15

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-241.D

Injection Date: 29-Nov-2016 03:53:23

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-B-2-A

Lab Sample ID: 480-110087-2

Worklist Smp#: 51

Client ID: MW-4

Injection Vol: 1.0 ul

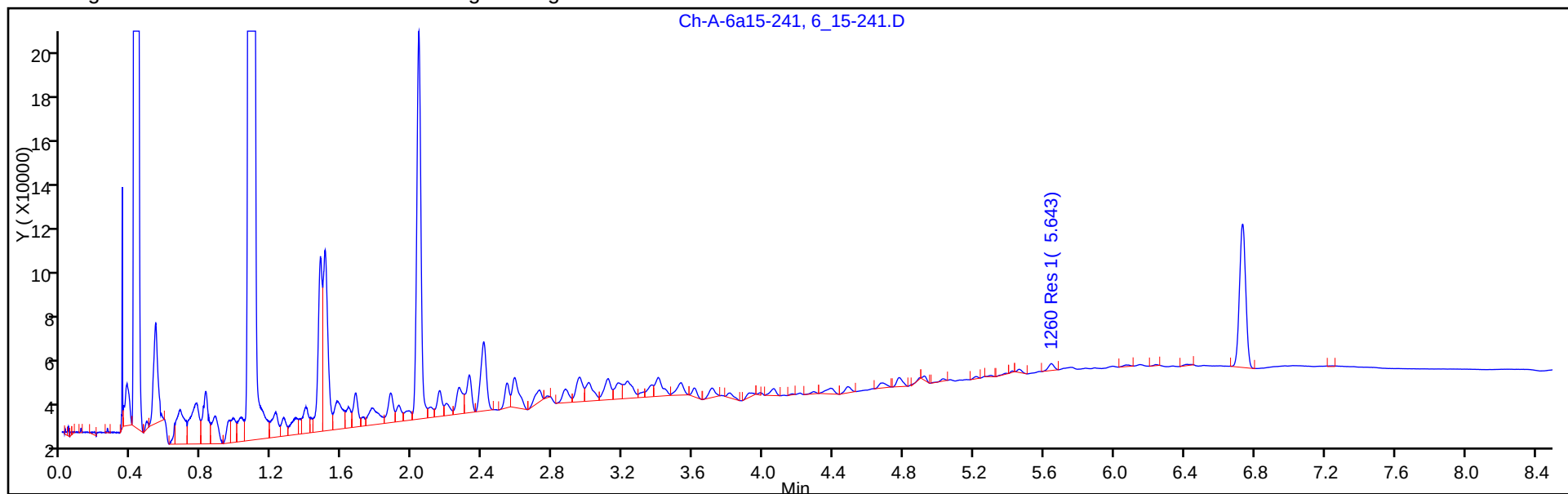
Dil. Factor: 1.0000

ALS Bottle#: 0

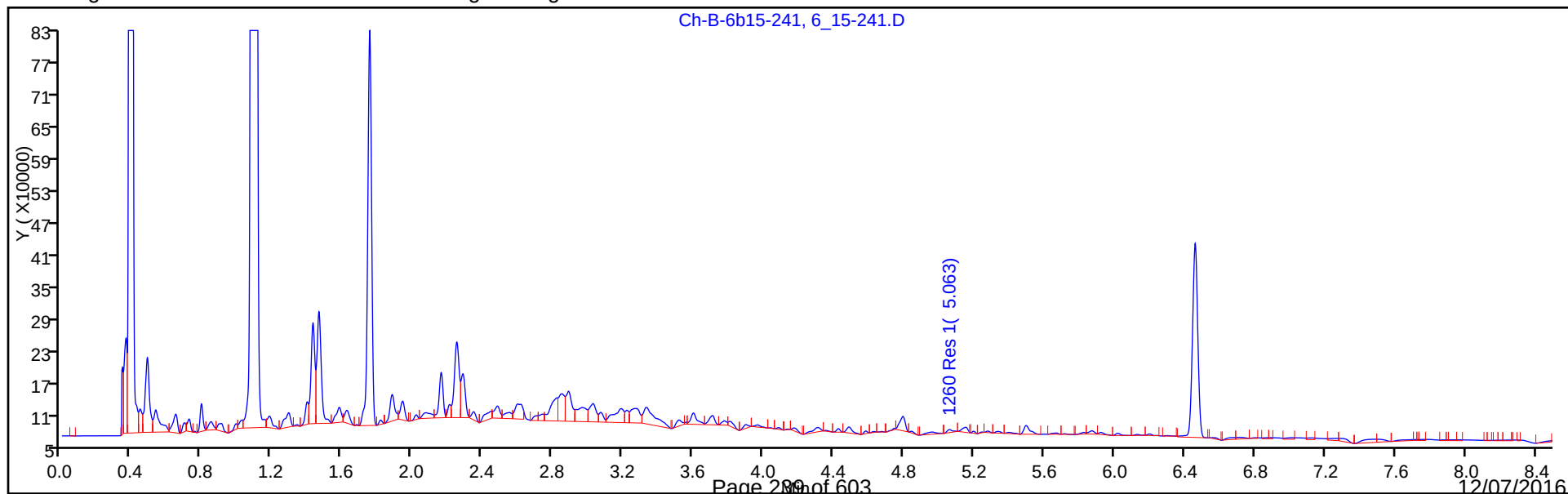
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Client Sample ID: MW-6 Lab Sample ID: 480-110087-3
Matrix: Water Lab File ID: 6_15-242.D
Analysis Method: 8082A Date Collected: 11/22/2016 16:35
Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
Sample wt/vol: 255.2 (mL) Date Analyzed: 11/29/2016 04:09
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	75		19-120
877-09-8	Tetrachloro-m-xylene	93		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-242.D
 Lims ID: 480-110087-B-3-A
 Client ID: MW-6
 Sample Type: Client
 Inject. Date: 29-Nov-2016 04:09:21 ALS Bottle#: 0 Worklist Smp#: 52
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:19:56 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj Date: 29-Nov-2016 13:19:56

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.085	1.081	0.004	6552602	0.5000
2	1.099	1.096	0.003	35792535	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.036	2.034	0.002	251715	0.0186
2	1.758	1.756	0.002	1115215	0.0185

RPD = 0.71

9 1260 Res 1

1	5.643	5.660	-0.017	12688	NR
2	5.063	5.063	0.001	2675	NR

RPD = NaN

12 1260 Res 3

1	5.746	5.764	-0.018	6425	NR
2	5.200	5.200	0.000	814	NR

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.734	6.735	-0.001	137031	0.0149
2	6.464	6.463	0.002	704171	0.0144

RPD = 3.86

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019

Amount Added: 20.00

Units: uL

Run Reagent

COPPER_00063

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Nov-2016 13:19:56

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-242.D

Injection Date: 29-Nov-2016 04:09:21

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-B-3-A

Lab Sample ID: 480-110087-3

Worklist Smp#: 52

Client ID: MW-6

Injection Vol: 1.0 ul

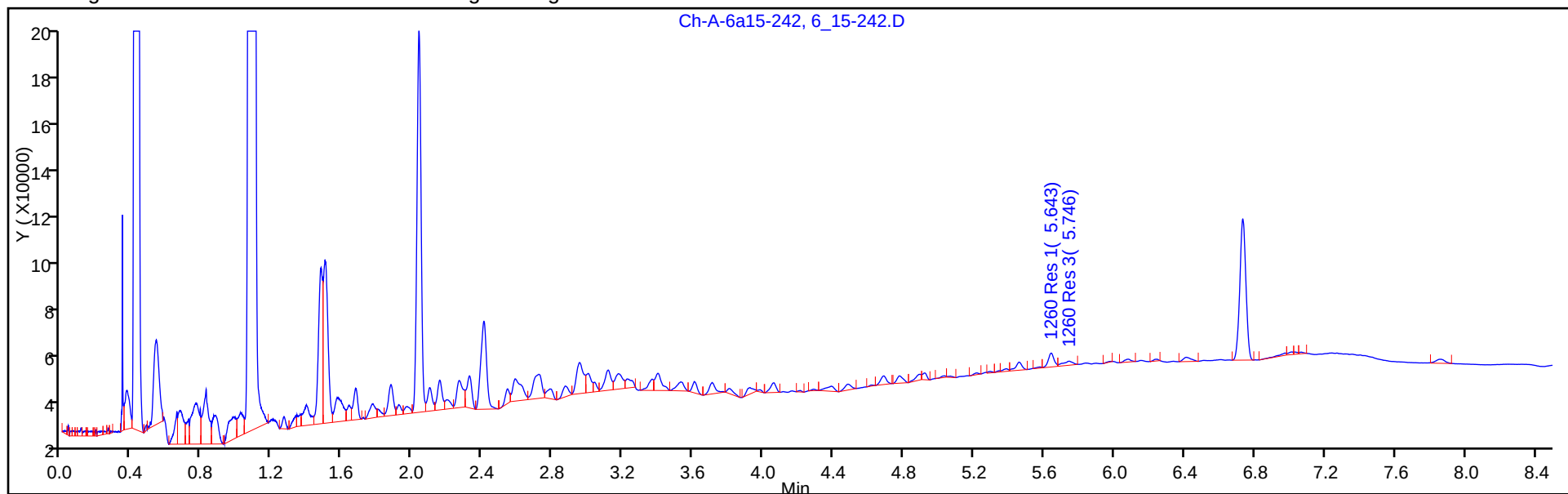
Dil. Factor: 1.0000

ALS Bottle#: 0

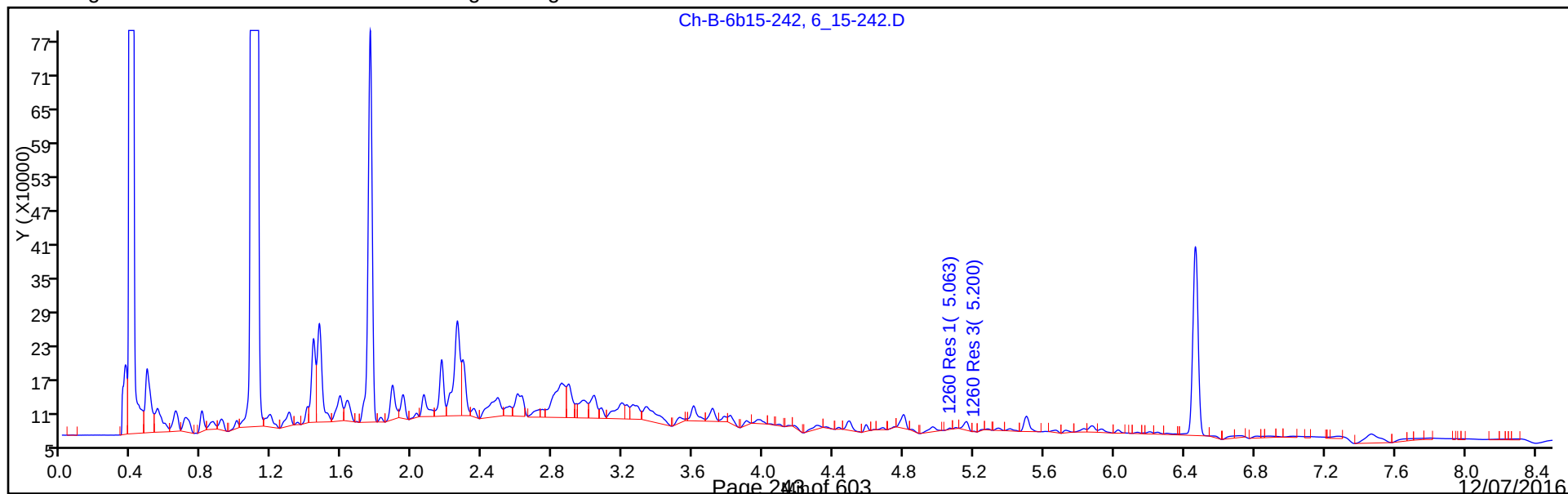
Method: 6890-6 PCB

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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-6</u>	Lab Sample ID: <u>480-110087-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>6_15-242.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/22/2016 16:35</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/28/2016 07:50</u>
Sample wt/vol: <u>255.2 (mL)</u>	Date Analyzed: <u>11/29/2016 04:09</u>
Con. Extract Vol.: <u>2 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>333712</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.49	0.17
11104-28-2	PCB-1221	ND		0.49	0.17
11141-16-5	PCB-1232	ND		0.49	0.17
53469-21-9	PCB-1242	ND		0.49	0.17
12672-29-6	PCB-1248	ND		0.49	0.17
11097-69-1	PCB-1254	ND		0.49	0.24
11096-82-5	PCB-1260	ND		0.49	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	72		19-120
877-09-8	Tetrachloro-m-xylene	92		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-242.D
 Lims ID: 480-110087-B-3-A
 Client ID: MW-6
 Sample Type: Client
 Inject. Date: 29-Nov-2016 04:09:21 ALS Bottle#: 0 Worklist Smp#: 52
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:19:56 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj

Date: 29-Nov-2016 13:19:56

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.085	1.081	0.004	6552602	0.5000
2	1.099	1.096	0.003	35792535	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.036	2.034	0.002	251715	0.0186
2	1.758	1.756	0.002	1115215	0.0185

RPD = 0.71

9 1260 Res 1

1	5.643	5.660	-0.017	12688	NR
2	5.063	5.063	0.001	2675	NR

RPD = NaN

12 1260 Res 3

1	5.746	5.764	-0.018	6425	NR
2	5.200	5.200	0.000	814	NR

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.734	6.735	-0.001	137031	0.0149
2	6.464	6.463	0.002	704171	0.0144

RPD = 3.86

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019

Amount Added: 20.00

Units: uL

Run Reagent

COPPER_00063

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Nov-2016 13:19:57

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-242.D

Injection Date: 29-Nov-2016 04:09:21

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-B-3-A

Lab Sample ID: 480-110087-3

Worklist Smp#: 52

Client ID: MW-6

Injection Vol: 1.0 ul

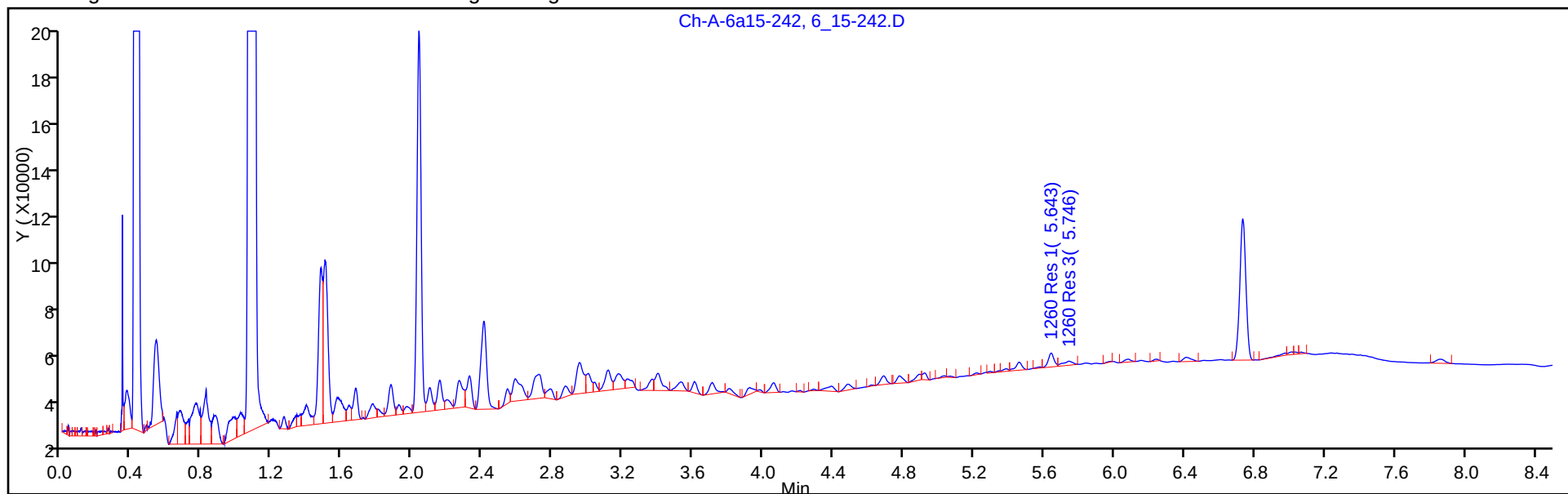
Dil. Factor: 1.0000

ALS Bottle#: 0

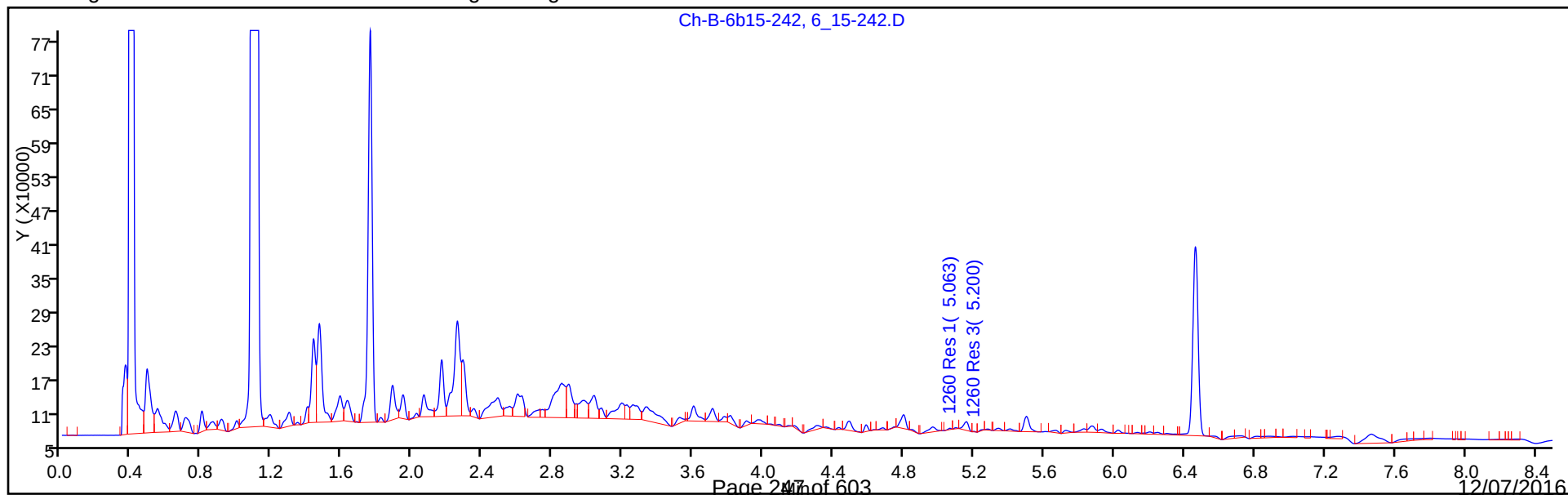
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Client Sample ID: MW-8 Lab Sample ID: 480-110087-4
Matrix: Water Lab File ID: 6_15-243.D
Analysis Method: 8082A Date Collected: 11/23/2016 09:45
Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
Sample wt/vol: 257.8(mL) Date Analyzed: 11/29/2016 04:25
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	66		19-120
877-09-8	Tetrachloro-m-xylene	87		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-243.D
 Lims ID: 480-110087-B-4-B
 Client ID: MW-8
 Sample Type: Client
 Inject. Date: 29-Nov-2016 04:25:15 ALS Bottle#: 0 Worklist Smp#: 53
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 12:37:18 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj

Date: 29-Nov-2016 12:37:18

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.083	1.081	0.002	6767088	0.5000
2	1.100	1.096	0.004	37277895	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.036	2.034	0.002	242353	0.0174
2	1.758	1.756	0.002	1165506	0.0185

RPD = 6.64

9 1260 Res 1

1	5.642	5.660	-0.018	10377	NR
2	5.064	5.063	0.002	36553	NR

RPD = NaN

12 1260 Res 3

1	5.746	5.764	-0.018	7540	NR
2	5.200	5.200	0.000	7525	NR

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.736	6.735	0.001	125992	0.0132
2	6.465	6.463	0.003	661347	0.0129

RPD = 2.74

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

PCB IS 1B2NB_00019

Amount Added: 20.00

Units: uL

Run Reagent

COPPER_00063

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Nov-2016 12:37:19

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-243.D

Injection Date: 29-Nov-2016 04:25:15

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-B-4-B

Lab Sample ID: 480-110087-4

Worklist Smp#: 53

Client ID: MW-8

Injection Vol: 1.0 ul

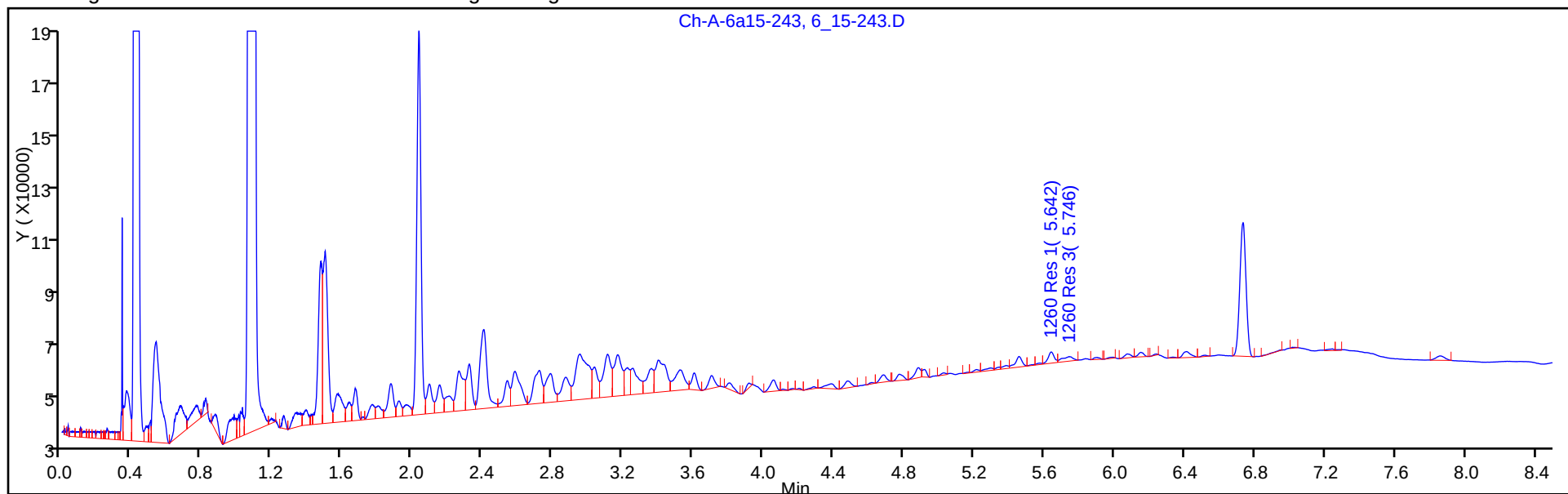
Dil. Factor: 1.0000

ALS Bottle#: 0

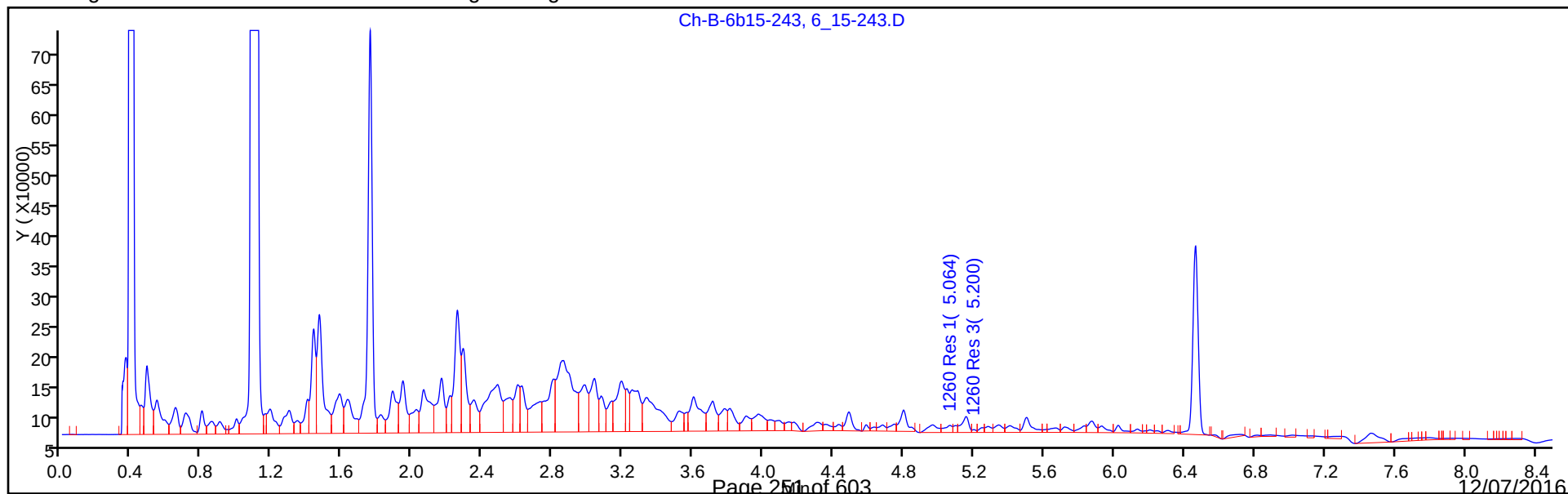
Method: 6890-6 PCB

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

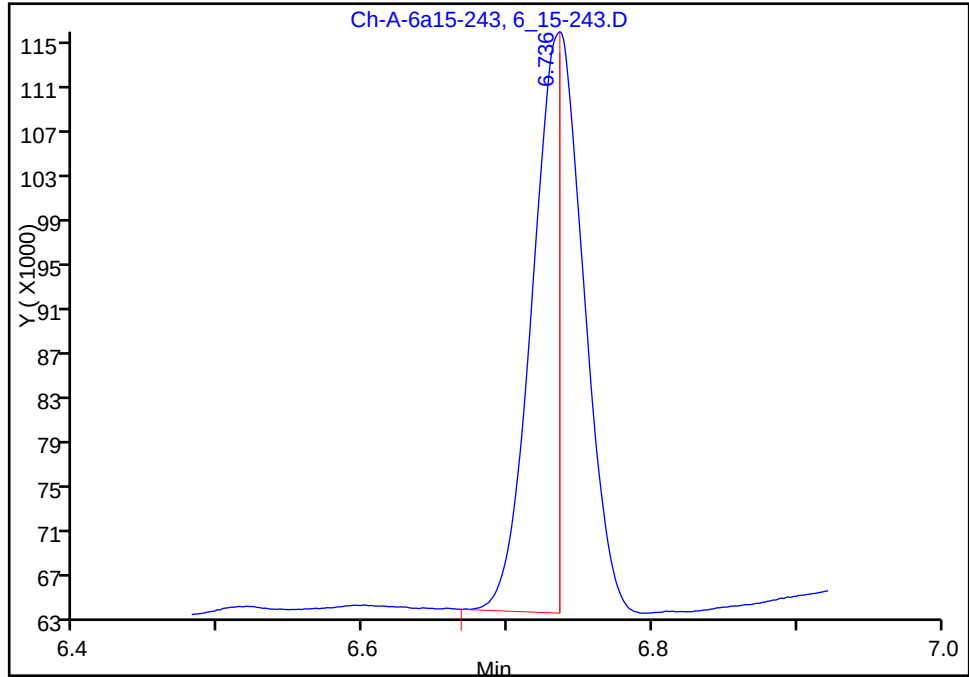
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-243.D				
Injection Date:	29-Nov-2016 04:25:15	Instrument ID:	HP6890-6		
Lims ID:	480-110087-B-4-B	Lab Sample ID:	480-110087-4		
Client ID:	MW-8				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

\$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

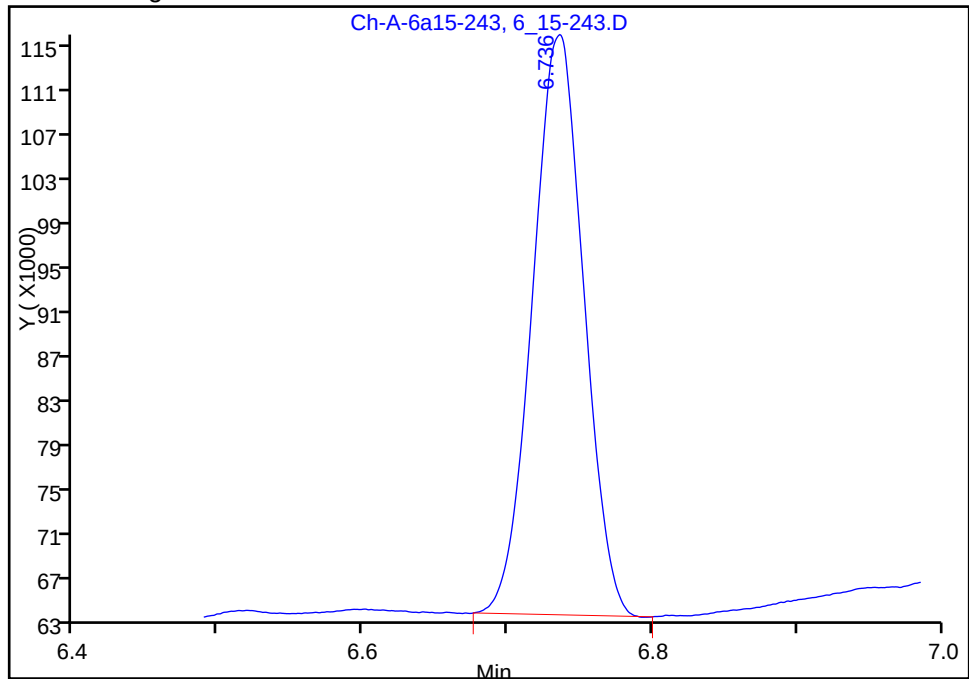
RT: 6.74
Area: 66503
Amount: 0.006776
Amount Units: ng/uL

Processing Integration Results



RT: 6.74
Area: 125992
Amount: 0.013242
Amount Units: ng/uL

Manual Integration Results



Reviewer: owenj, 29-Nov-2016 12:37:18
Audit Action: Manually Integrated

Audit Reason: Split Peak
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12/07/2016

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-8</u>	Lab Sample ID: <u>480-110087-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>6_15-243.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/23/2016 09:45</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/28/2016 07:50</u>
Sample wt/vol: <u>257.8(mL)</u>	Date Analyzed: <u>11/29/2016 04:25</u>
Con. Extract Vol.: <u>2(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53(mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>333712</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.48	0.17
11104-28-2	PCB-1221	ND		0.48	0.17
11141-16-5	PCB-1232	ND		0.48	0.17
53469-21-9	PCB-1242	ND		0.48	0.17
12672-29-6	PCB-1248	ND		0.48	0.17
11097-69-1	PCB-1254	ND		0.48	0.24
11096-82-5	PCB-1260	ND		0.48	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	64		19-120
877-09-8	Tetrachloro-m-xylene	93		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-243.D
 Lims ID: 480-110087-B-4-B
 Client ID: MW-8
 Sample Type: Client
 Inject. Date: 29-Nov-2016 04:25:15 ALS Bottle#: 0 Worklist Smp#: 53
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 12:37:18 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj

Date: 29-Nov-2016 12:37:18

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.083	1.081	0.002	6767088	0.5000
2	1.100	1.096	0.004	37277895	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.036	2.034	0.002	242353	0.0174
2	1.758	1.756	0.002	1165506	0.0185

RPD = 6.64

9 1260 Res 1

1	5.642	5.660	-0.018	10377	NR
2	5.064	5.063	0.002	36553	NR

RPD = NaN

12 1260 Res 3

1	5.746	5.764	-0.018	7540	NR
2	5.200	5.200	0.000	7525	NR

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.736	6.735	0.001	125992	0.0132
2	6.465	6.463	0.003	661347	0.0129

RPD = 2.74

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

PCB IS 1B2NB_00019

Amount Added: 20.00

Units: uL

Run Reagent

COPPER_00063

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Nov-2016 12:37:20

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-243.D

Injection Date: 29-Nov-2016 04:25:15

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-B-4-B

Lab Sample ID: 480-110087-4

Worklist Smp#: 53

Client ID: MW-8

Injection Vol: 1.0 ul

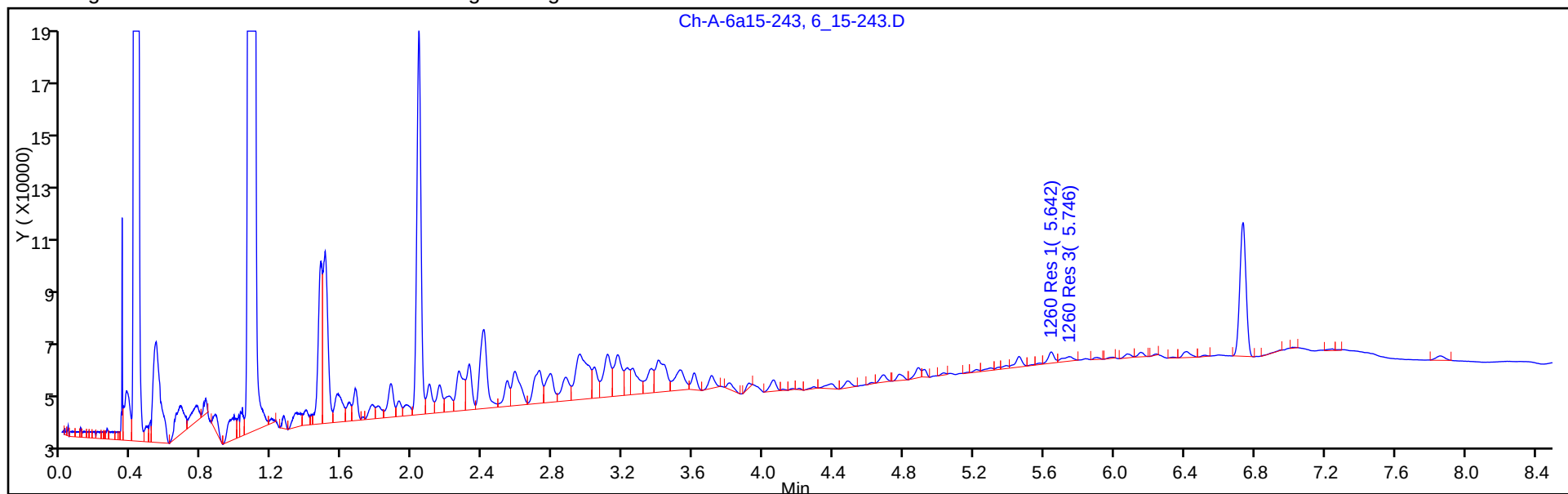
Dil. Factor: 1.0000

ALS Bottle#: 0

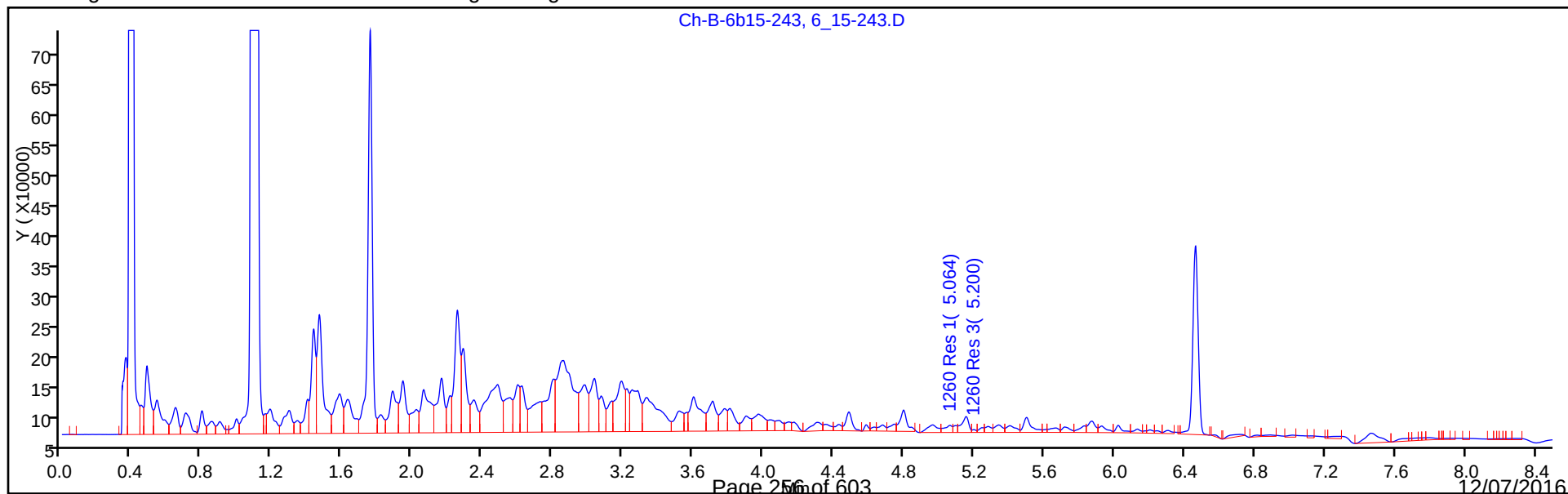
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Client Sample ID: MW-7 Lab Sample ID: 480-110087-5
Matrix: Water Lab File ID: 6_15-244.D
Analysis Method: 8082A Date Collected: 11/23/2016 12:30
Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
Sample wt/vol: 256.8(mL) Date Analyzed: 11/29/2016 04:41
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	62		19-120
877-09-8	Tetrachloro-m-xylene	76		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-244.D
 Lims ID: 480-110087-A-5-A
 Client ID: MW-7
 Sample Type: Client
 Inject. Date: 29-Nov-2016 04:41:11 ALS Bottle#: 0 Worklist Smp#: 54
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:20:26 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj Date: 29-Nov-2016 13:20:26

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.082	1.081	0.001	7258561	0.5000	
2	1.098	1.096	0.002	38846068	0.5000	
RPD = 0.00						

\$ 2 Tetrachloro-m-xylene

1	2.035	2.034	0.001	228510	0.0153	
2	1.757	1.756	0.001	1141151	0.0174	
RPD = 13.28						

9 1260 Res 1

1	5.639	5.660	-0.021	7361	NR	
2	5.062	5.063	0.000	18770	NR	
RPD = NaN						

\$ 15 DCB Decachlorobiphenyl

1	6.733	6.735	-0.002	127633	0.0125	
2	6.463	6.463	0.001	658362	0.0123	
RPD = 1.64						

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019	Amount Added: 20.00	Units: uL	Run Reagent
COPPER_00063	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 29-Nov-2016 13:20:26

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-244.D

Injection Date: 29-Nov-2016 04:41:11

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-A-5-A

Lab Sample ID: 480-110087-5

Worklist Smp#: 54

Client ID: MW-7

Injection Vol: 1.0 ul

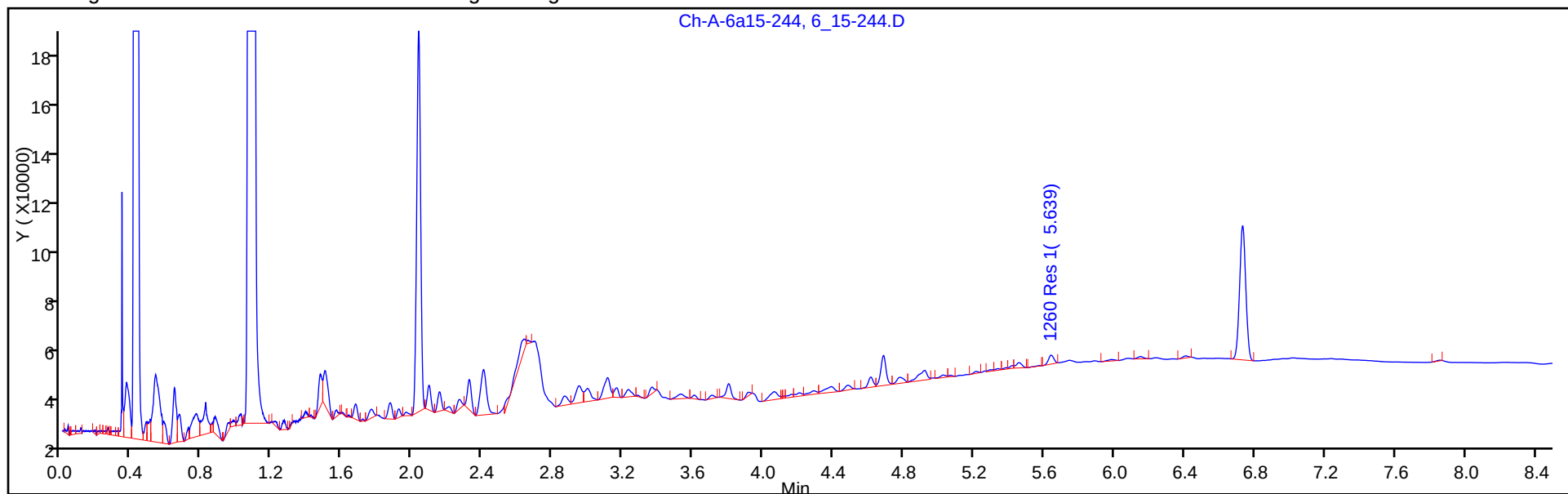
Dil. Factor: 1.0000

ALS Bottle#: 0

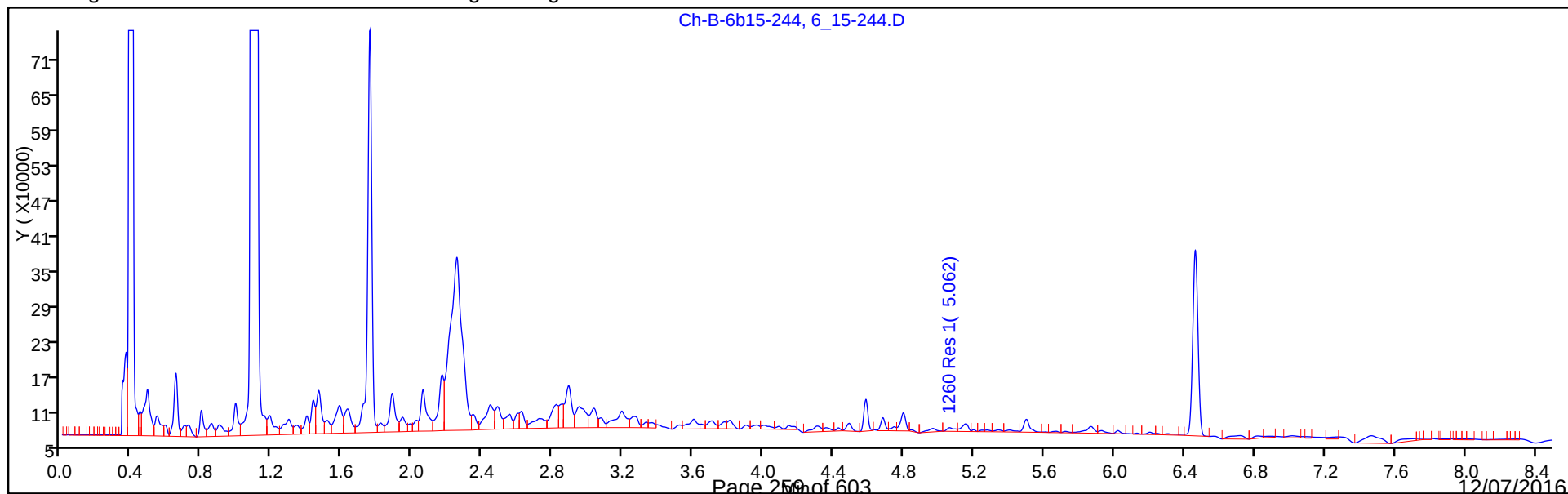
Method: 6890-6 PCB

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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-7</u>	Lab Sample ID: <u>480-110087-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>6_15-244.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/23/2016 12:30</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/28/2016 07:50</u>
Sample wt/vol: <u>256.8(mL)</u>	Date Analyzed: <u>11/29/2016 04:41</u>
Con. Extract Vol.: <u>2(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53(mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>333712</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.49	0.17
11104-28-2	PCB-1221	ND		0.49	0.17
11141-16-5	PCB-1232	ND		0.49	0.17
53469-21-9	PCB-1242	ND		0.49	0.17
12672-29-6	PCB-1248	ND		0.49	0.17
11097-69-1	PCB-1254	ND		0.49	0.24
11096-82-5	PCB-1260	ND		0.49	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	61		19-120
877-09-8	Tetrachloro-m-xylene	87		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-244.D
 Lims ID: 480-110087-A-5-A
 Client ID: MW-7
 Sample Type: Client
 Inject. Date: 29-Nov-2016 04:41:11 ALS Bottle#: 0 Worklist Smp#: 54
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:20:26 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj

Date: 29-Nov-2016 13:20:26

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.082	1.081	0.001	7258561	0.5000	
2	1.098	1.096	0.002	38846068	0.5000	
RPD = 0.00						

\$ 2 Tetrachloro-m-xylene

1	2.035	2.034	0.001	228510	0.0153	
2	1.757	1.756	0.001	1141151	0.0174	
RPD = 13.28						

9 1260 Res 1

1	5.639	5.660	-0.021	7361	NR	
2	5.062	5.063	0.000	18770	NR	
RPD = NaN						

\$ 15 DCB Decachlorobiphenyl

1	6.733	6.735	-0.002	127633	0.0125	
2	6.463	6.463	0.001	658362	0.0123	
RPD = 1.64						

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019	Amount Added: 20.00	Units: uL	Run Reagent
COPPER_00063	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 29-Nov-2016 13:20:27

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-244.D

Injection Date: 29-Nov-2016 04:41:11

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-A-5-A

Lab Sample ID: 480-110087-5

Worklist Smp#: 54

Client ID: MW-7

Injection Vol: 1.0 ul

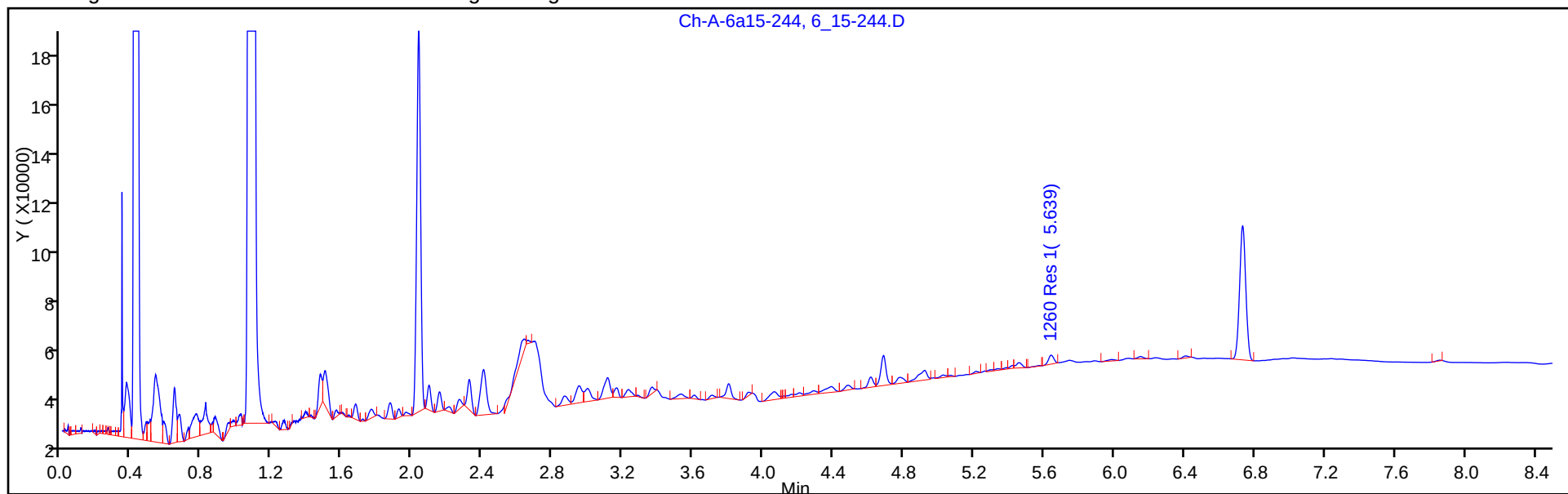
Dil. Factor: 1.0000

ALS Bottle#: 0

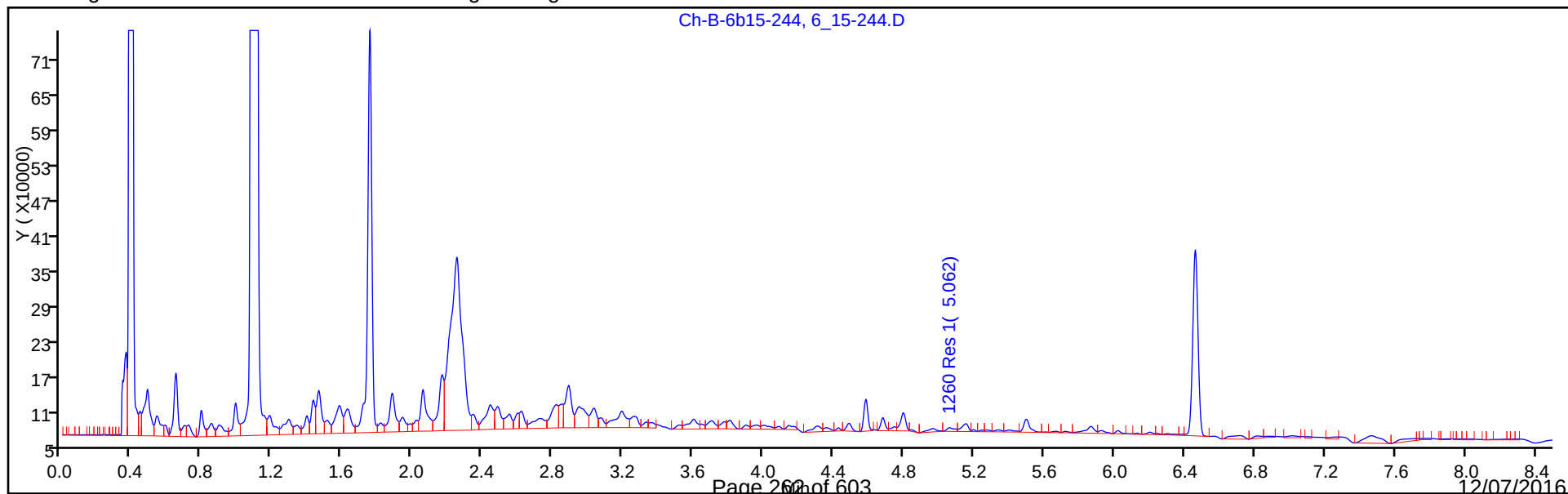
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Client Sample ID: MW-2R Lab Sample ID: 480-110087-6
Matrix: Water Lab File ID: 6_15-245.D
Analysis Method: 8082A Date Collected: 11/23/2016 13:45
Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
Sample wt/vol: 204.5 (mL) Date Analyzed: 11/29/2016 04:57
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	63		19-120
877-09-8	Tetrachloro-m-xylene	100		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-245.D
 Lims ID: 480-110087-A-6-A
 Client ID: MW-2R
 Sample Type: Client
 Inject. Date: 29-Nov-2016 04:57:09 ALS Bottle#: 0 Worklist Smp#: 55
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:21:01 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj

Date: 29-Nov-2016 13:21:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.081	1.081	0.000	6292521	0.5000	
2	1.097	1.096	0.001	35279946	0.5000	
RPD = 0.00						

\$ 2 Tetrachloro-m-xylene

1	2.035	2.034	0.001	258514	0.0199	
2	1.756	1.756	0.000	1030376	0.0173	
RPD = 13.88						

9 1260 Res 1

1	5.641	5.660	-0.019	9414	NR	
2	5.063	5.063	0.001	8532	NR	
RPD = NaN						

\$ 15 DCB Decachlorobiphenyl

1	6.735	6.735	0.000	111710	0.0126	
2	6.464	6.463	0.002	565405	0.0116	
RPD = 8.55						

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019	Amount Added: 20.00	Units: uL	Run Reagent
COPPER_00063	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 29-Nov-2016 13:21:02

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-245.D

Injection Date: 29-Nov-2016 04:57:09

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-A-6-A

Lab Sample ID: 480-110087-6

Worklist Smp#: 55

Client ID: MW-2R

Injection Vol: 1.0 ul

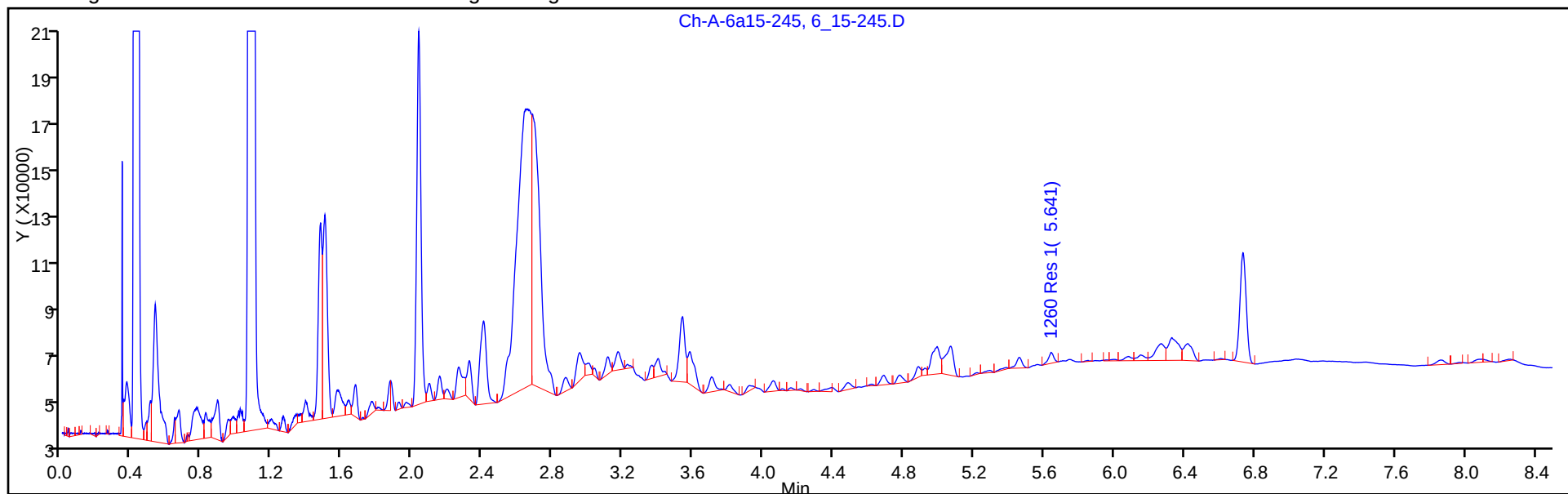
Dil. Factor: 1.0000

ALS Bottle#: 0

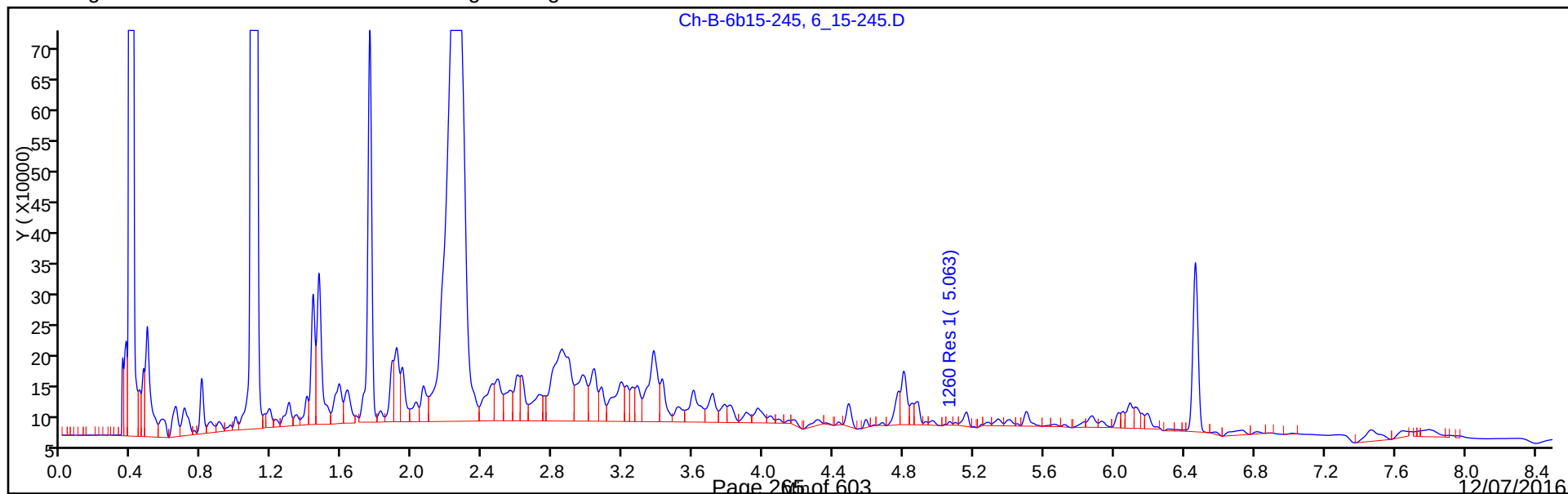
Method: 6890-6 PCB

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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-2R</u>	Lab Sample ID: <u>480-110087-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>6_15-245.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/23/2016 13:45</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/28/2016 07:50</u>
Sample wt/vol: <u>204.5 (mL)</u>	Date Analyzed: <u>11/29/2016 04:57</u>
Con. Extract Vol.: <u>2 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>333712</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.61	0.22
11104-28-2	PCB-1221	ND		0.61	0.22
11141-16-5	PCB-1232	ND		0.61	0.22
53469-21-9	PCB-1242	ND		0.61	0.22
12672-29-6	PCB-1248	ND		0.61	0.22
11097-69-1	PCB-1254	ND		0.61	0.31
11096-82-5	PCB-1260	ND		0.61	0.31

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	58		19-120
877-09-8	Tetrachloro-m-xylene	87		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-245.D
 Lims ID: 480-110087-A-6-A
 Client ID: MW-2R
 Sample Type: Client
 Inject. Date: 29-Nov-2016 04:57:09 ALS Bottle#: 0 Worklist Smp#: 55
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:21:01 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj

Date: 29-Nov-2016 13:21:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.081	1.081	0.000	6292521	0.5000	
2	1.097	1.096	0.001	35279946	0.5000	
RPD = 0.00						

\$ 2 Tetrachloro-m-xylene

1	2.035	2.034	0.001	258514	0.0199	
2	1.756	1.756	0.000	1030376	0.0173	
RPD = 13.88						

9 1260 Res 1

1	5.641	5.660	-0.019	9414	NR	
2	5.063	5.063	0.001	8532	NR	
RPD = NaN						

\$ 15 DCB Decachlorobiphenyl

1	6.735	6.735	0.000	111710	0.0126	
2	6.464	6.463	0.002	565405	0.0116	
RPD = 8.55						

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019	Amount Added: 20.00	Units: uL	Run Reagent
COPPER_00063	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 29-Nov-2016 13:21:02

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-245.D

Injection Date: 29-Nov-2016 04:57:09

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-A-6-A

Lab Sample ID: 480-110087-6

Worklist Smp#: 55

Client ID: MW-2R

Injection Vol: 1.0 ul

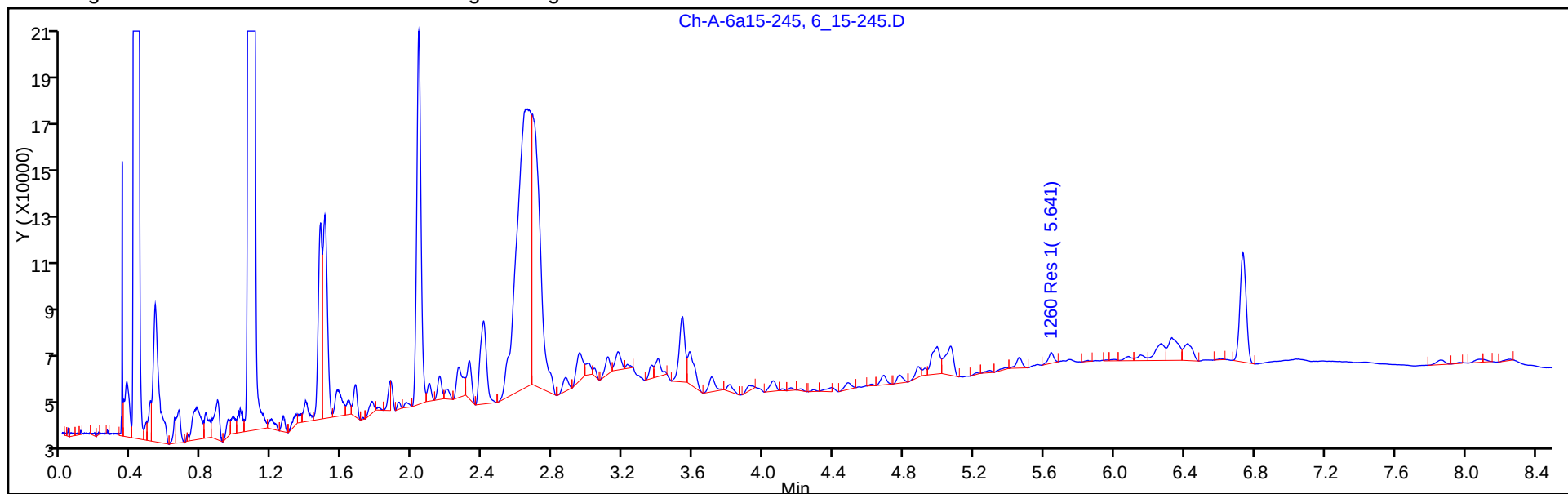
Dil. Factor: 1.0000

ALS Bottle#: 0

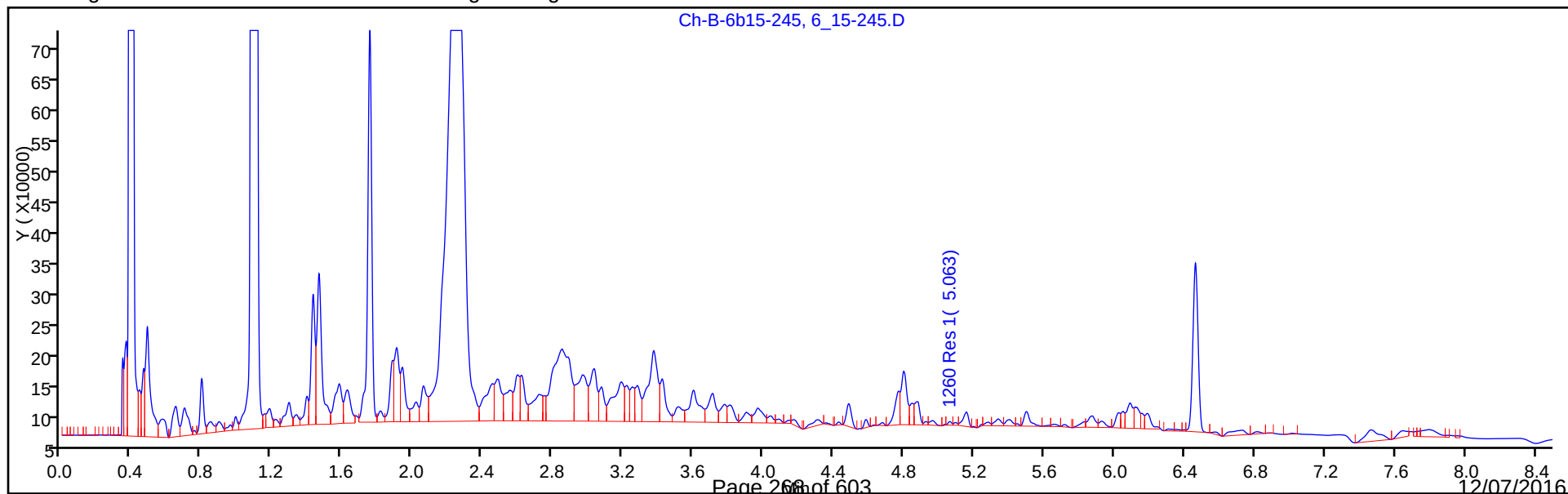
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Client Sample ID: DUP-112216 Lab Sample ID: 480-110087-8
Matrix: Water Lab File ID: 6_15-246.D
Analysis Method: 8082A Date Collected: 11/22/2016 00:00
Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
Sample wt/vol: 262.3(mL) Date Analyzed: 11/29/2016 05:13
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	84		19-120
877-09-8	Tetrachloro-m-xylene	95		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-246.D
 Lims ID: 480-110087-A-8-A
 Client ID: DUP-112216
 Sample Type: Client
 Inject. Date: 29-Nov-2016 05:13:15 ALS Bottle#: 0 Worklist Smp#: 56
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:21:45 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj

Date: 29-Nov-2016 13:21:45

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.081	1.081	0.000	6513812	0.5000
2	1.097	1.096	0.001	34858982	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.035	2.034	0.001	254646	0.0189
2	1.756	1.756	0.000	1218100	0.0207

RPD = 9.00

9 1260 Res 1

1	5.643	5.660	-0.017	13035	NR
2	5.063	5.063	0.000	39631	NR

RPD = NaN

14 1260 Res 2

1	5.718	5.721	-0.003	3051	NR
2	5.154	5.129	0.025	68949	NR

RPD = NaN

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-246.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

12 1260 Res 3

1 5.749 5.764 -0.015 5191 NR

2 5.200 5.200 0.000 18375 NR

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1 6.736 6.735 0.001 153409 0.0169

2 6.464 6.463 0.002 806182 0.0170

RPD = 0.80

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019

Amount Added: 20.00

Units: uL

Run Reagent

COPPER_00063

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Nov-2016 13:21:45

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-246.D

Injection Date: 29-Nov-2016 05:13:15

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-A-8-A

Lab Sample ID: 480-110087-8

Worklist Smp#: 56

Client ID: DUP-112216

Injection Vol: 1.0 ul

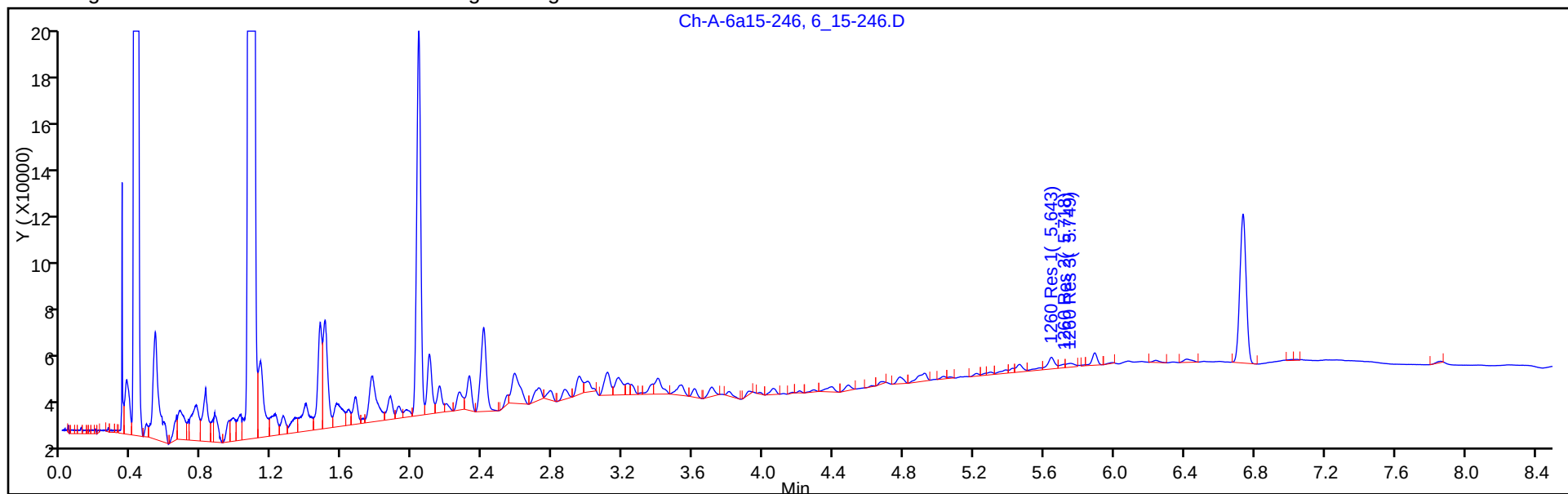
Dil. Factor: 1.0000

ALS Bottle#: 0

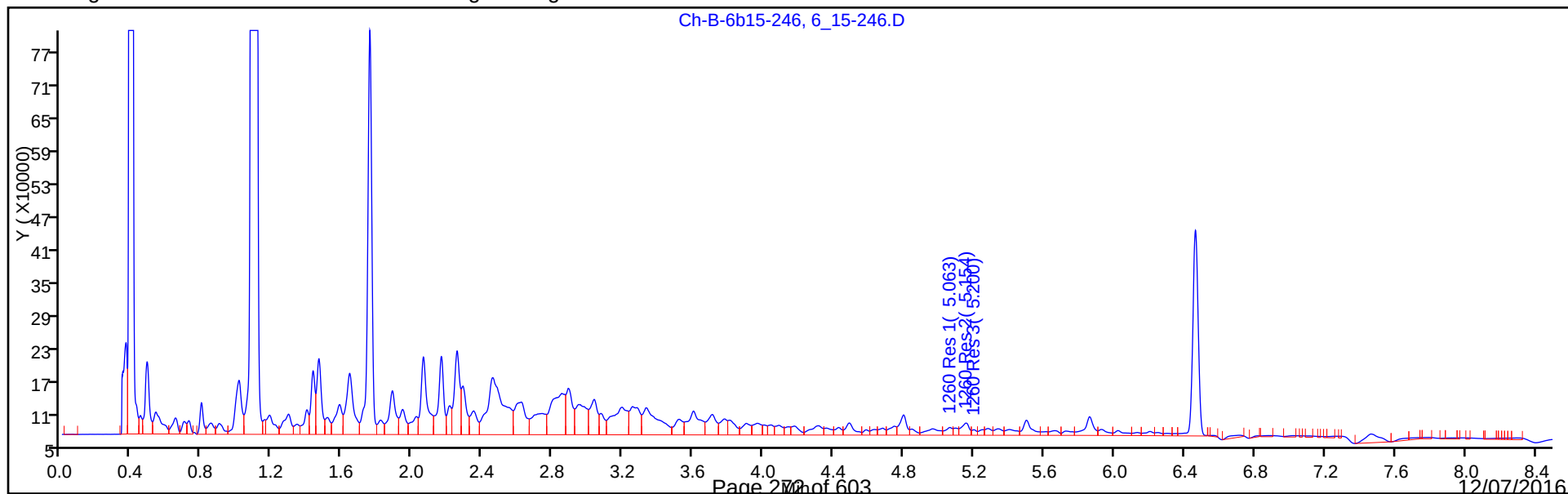
Method: 6890-6 PCB

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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>DUP-112216</u>	Lab Sample ID: <u>480-110087-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>6_15-246.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/22/2016 00:00</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/28/2016 07:50</u>
Sample wt/vol: <u>262.3(mL)</u>	Date Analyzed: <u>11/29/2016 05:13</u>
Con. Extract Vol.: <u>2(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53(mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>333712</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.48	0.17
11104-28-2	PCB-1221	ND		0.48	0.17
11141-16-5	PCB-1232	ND		0.48	0.17
53469-21-9	PCB-1242	ND		0.48	0.17
12672-29-6	PCB-1248	ND		0.48	0.17
11097-69-1	PCB-1254	ND		0.48	0.24
11096-82-5	PCB-1260	ND		0.48	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	85		19-120
877-09-8	Tetrachloro-m-xylene	104		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-246.D
 Lims ID: 480-110087-A-8-A
 Client ID: DUP-112216
 Sample Type: Client
 Inject. Date: 29-Nov-2016 05:13:15 ALS Bottle#: 0 Worklist Smp#: 56
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 13:21:45 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj

Date: 29-Nov-2016 13:21:45

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.081	1.081	0.000	6513812	0.5000
2	1.097	1.096	0.001	34858982	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.035	2.034	0.001	254646	0.0189
2	1.756	1.756	0.000	1218100	0.0207

RPD = 9.00

9 1260 Res 1

1	5.643	5.660	-0.017	13035	NR
2	5.063	5.063	0.000	39631	NR

RPD = NaN

14 1260 Res 2

1	5.718	5.721	-0.003	3051	NR
2	5.154	5.129	0.025	68949	NR

RPD = NaN

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-246.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags

12 1260 Res 3

1 5.749 5.764 -0.015 5191 NR

2 5.200 5.200 0.000 18375 NR

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1 6.736 6.735 0.001 153409 0.0169

2 6.464 6.463 0.002 806182 0.0170

RPD = 0.80

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019

Amount Added: 20.00

Units: uL

Run Reagent

COPPER_00063

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Nov-2016 13:21:45

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-246.D

Injection Date: 29-Nov-2016 05:13:15

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-A-8-A

Lab Sample ID: 480-110087-8

Worklist Smp#: 56

Client ID: DUP-112216

Injection Vol: 1.0 ul

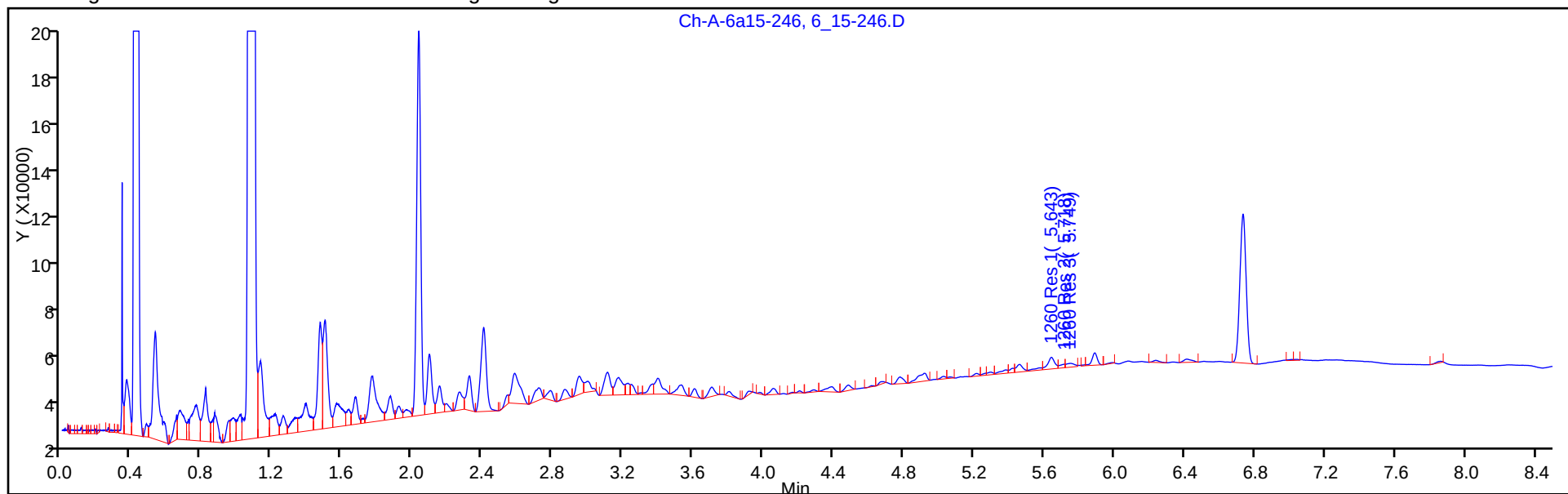
Dil. Factor: 1.0000

ALS Bottle#: 0

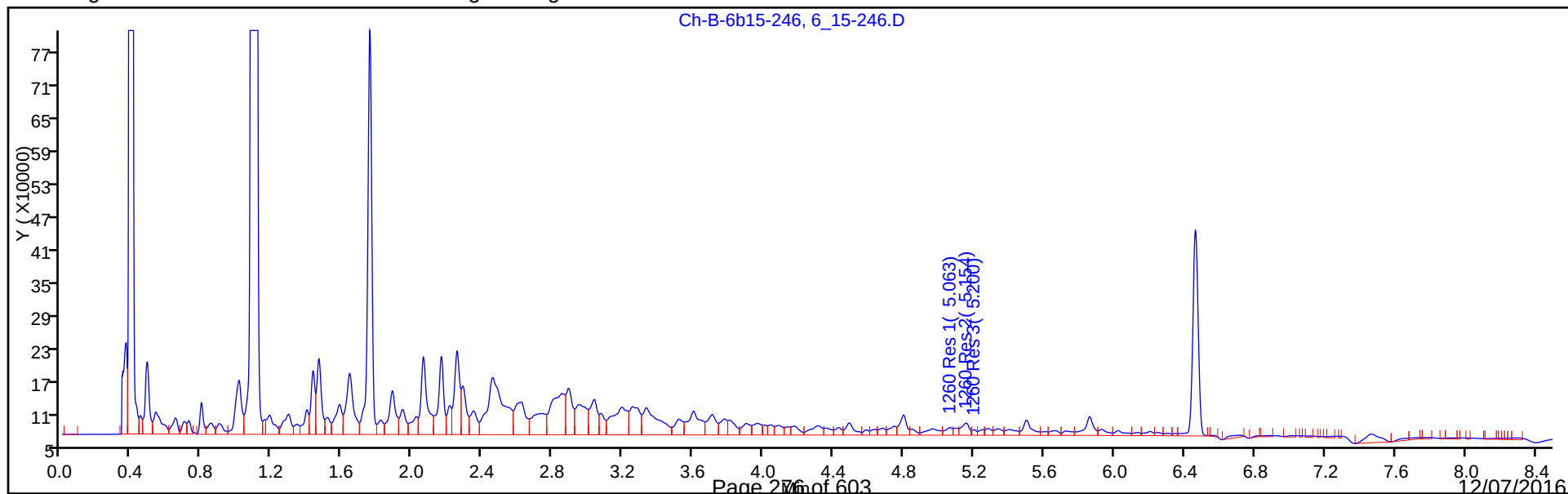
Method: 6890-6 PCB

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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 20:00 Calibration End Date: 09/15/2016 21:36 Calibration ID: 28347

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/9	6_10-153.D
Level 2	IC 480-320599/8	6_10-152.D
Level 3	IC 480-320599/7	6_10-151.D
Level 4	IC 480-320599/6	6_10-150.D
Level 5	ICIS 480-320599/5	6_10-149.D
Level 6	IC 480-320599/4	6_10-148.D
Level 7	IC 480-320599/3	6_10-147.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	0.0449 0.0306	0.0427 0.0303	0.0408	0.0399	0.0343	Ave		0.0376				15.7		20.0			
PCB-1016 Peak 2	0.0397 0.0223	0.0324 0.0203	0.0291	0.0264	0.0238	Lin1	0.0005	0.0211							0.9950		0.9900
PCB-1016 Peak 3	0.1123 0.0751	0.0986 0.0725	0.0890	0.0830	0.0763	Ave		0.0867				16.7		20.0			
PCB-1016 Peak 4	0.0513 0.0280	0.0394 0.0263	0.0347	0.0320	0.0291	Lin1	0.0006	0.0268							0.9980		0.9900
PCB-1016 Peak 5	0.0332 0.0195	0.0268 0.0184	0.0236	0.0218	0.0201	Lin1	0.0004	0.0187							0.9990		0.9900
PCB-1260 Peak 1	0.0714 0.0483	0.0633 0.0474	0.0556	0.0525	0.0481	Ave		0.0552				16.4		20.0			
PCB-1260 Peak 2	0.0398 0.0262	0.0361 0.0255	0.0309	0.0287	0.0265	Ave		0.0305				18.0		20.0			
PCB-1260 Peak 3	0.0367 0.0241	0.0328 0.0235	0.0282	0.0268	0.0243	Ave		0.0280				17.7		20.0			
PCB-1260 Peak 4	0.0774 0.0587	0.0709 0.0597	0.0629	0.0605	0.0571	Ave		0.0639				11.7		20.0			
PCB-1260 Peak 5	0.0384 0.0266	0.0353 0.0262	0.0302	0.0285	0.0266	Ave		0.0303				15.8		20.0			
Tetrachloro-m-xylene	1.5823 1.0204	1.3456 1.0704	1.2208	1.2348	1.1087	Lin1	0.0003	1.0568							0.9980		0.9900
DCB Decachlorobiphenyl	0.7026 0.4493	0.6137 0.4216	0.5423	0.4955	0.4609	Lin1	0.0002	0.4310							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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 20:00 Calibration End Date: 09/15/2016 21:36 Calibration ID: 28347

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/9	6_10-153.D
Level 2	IC 480-320599/8	6_10-152.D
Level 3	IC 480-320599/7	6_10-151.D
Level 4	IC 480-320599/6	6_10-150.D
Level 5	ICIS 480-320599/5	6_10-149.D
Level 6	IC 480-320599/4	6_10-148.D
Level 7	IC 480-320599/3	6_10-147.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	49908 1694102	120123 3466183	238211	464531	1001599	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	44133 1233162	91009 2327656	170003	307897	695144	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Ave	124867 4150870	277124 8307261	519791	966461	2227453	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	57087 1546554	110809 3010392	202846	372904	848719	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	36955 1075686	75393 2105770	138028	254193	587225	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Ave	79385 2668546	177793 5427771	324399	611269	1404194	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Ave	44283 1446153	101566 2919910	180660	334247	774800	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Ave	40751 1334417	92079 2689109	164800	311819	708371	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Ave	86012 3245864	199370 6838729	367524	704736	1666362	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Ave	42706 1469467	99110 2998546	176262	332520	777999	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	43979 1410754	94550 3065530	178191	359542	809172	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	19528 621109	43121 1207352	79156	144292	336364	0.000500 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\HP6890-06\20160915-56412.b\6_10-147.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 15-Sep-2016 20:00:13 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:30:28 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 15-Sep-2016 20:15:33

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	1.163	1.164	-0.001	28640205	0.5000	0.5000	
2	1.137	1.139	-0.002	52182979	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.153	2.157	-0.004	3065530	0.0500	0.0503	M
2	1.808	1.811	-0.003	5511632	0.0500	0.0482	
RPD = 4.25							

6 PCB-1016

1	2.768	2.763	0.005	3466183	2.00	1.61	
1	2.926	2.927	-0.001	2327656	2.00	1.90	
1	3.138	3.139	-0.001	8307261	2.00	1.67	
1	3.224	3.225	-0.001	3010392	2.00	1.94	
1	3.288	3.289	-0.001	2105770	2.00	1.94	
Average of Peak Amounts =							1.81
2	2.587	2.591	-0.004	6590245	2.00	1.67	
2	2.914	2.918	-0.004	15556109	2.00	1.90	
2	3.034	3.038	-0.004	5686623	2.00	1.82	
2	3.133	3.136	-0.003	3869860	2.00	1.87	
2	3.421	3.423	-0.002	6699219	2.00	1.85	
Average of Peak Amounts =							1.82

RPD = 0.60

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-147.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	5.036	5.037	-0.001	5427771	2.00	1.72	
1	5.168	5.167	0.001	2919910	2.00	1.67	
1	5.357	5.357	0.000	2689109	2.00	1.67	
1	5.563	5.564	-0.001	6838729	2.00	1.87	
1	5.803	5.805	-0.002	2998546	2.00	1.73	

Average of Peak Amounts = 1.73

2	4.814	4.818	-0.004	8437258	2.00	1.96	
2	4.864	4.866	-0.002	7139245	2.00	1.91	
2	5.128	5.132	-0.004	7414569	2.00	1.97	
2	5.265	5.268	-0.003	20020595	2.00	2.09	a
2	5.603	5.605	-0.003	10893542	2.00	2.02	

Average of Peak Amounts = 1.99

RPD = 13.90

\$ 15 DCB Decachlorobiphenyl

1	6.929	6.931	-0.002	1207352	0.0500	0.0485	a
2	6.547	6.553	-0.005	3297871	0.0500	0.0493	a

RPD = 1.64

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:30:30

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-147.D

Injection Date: 15-Sep-2016 20:00:13

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 7

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

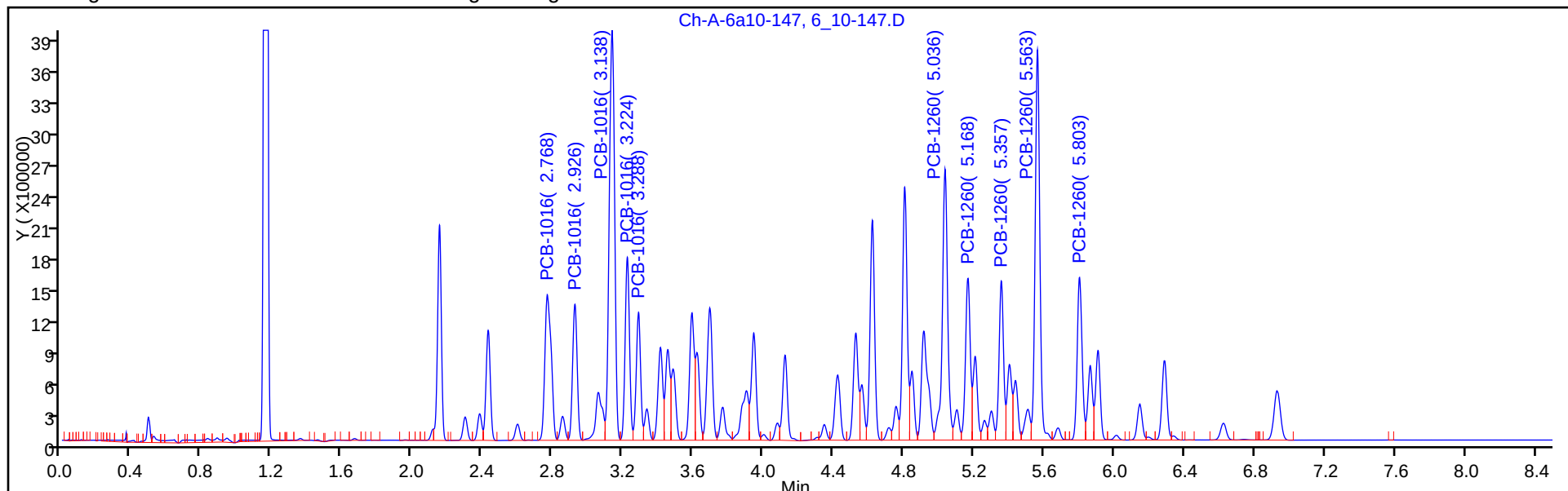
Dil. Factor: 1.0000

ALS Bottle#: 0

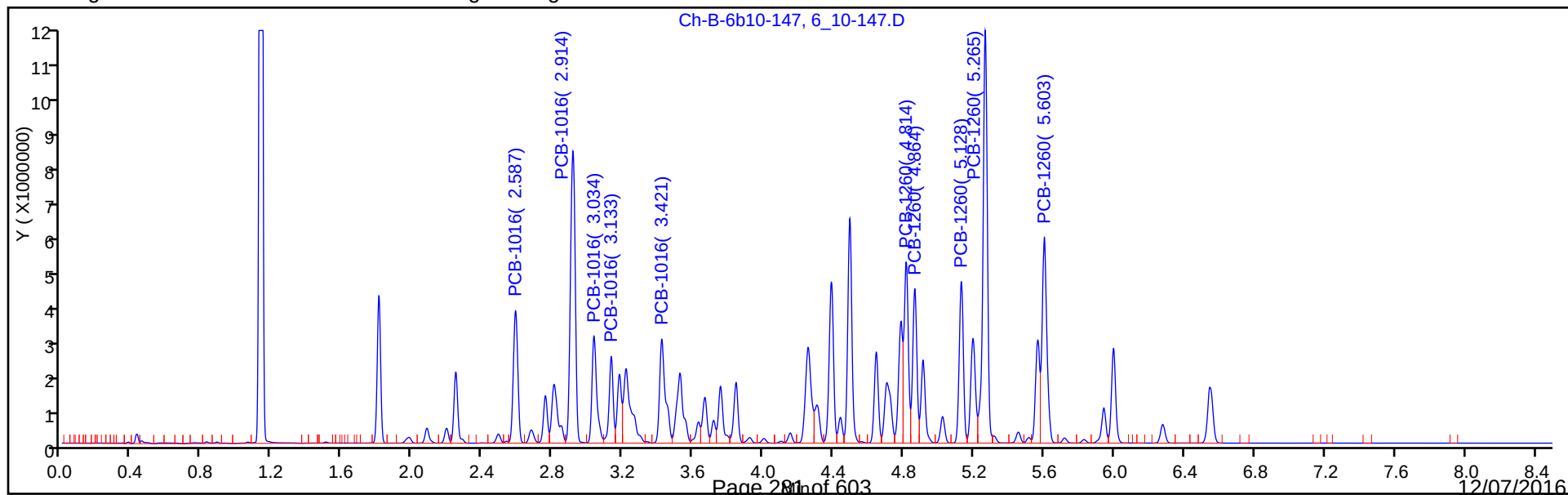
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-147.D

Injection Date: 15-Sep-2016 20:00:13

Instrument ID: HP6890-6

Lims ID: IC 7

Client ID:

Operator ID: BufTCHROM

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 6890-6 PCB

Limit Group:

GC - 8082A PCB IS ICAL

Column:

Detector

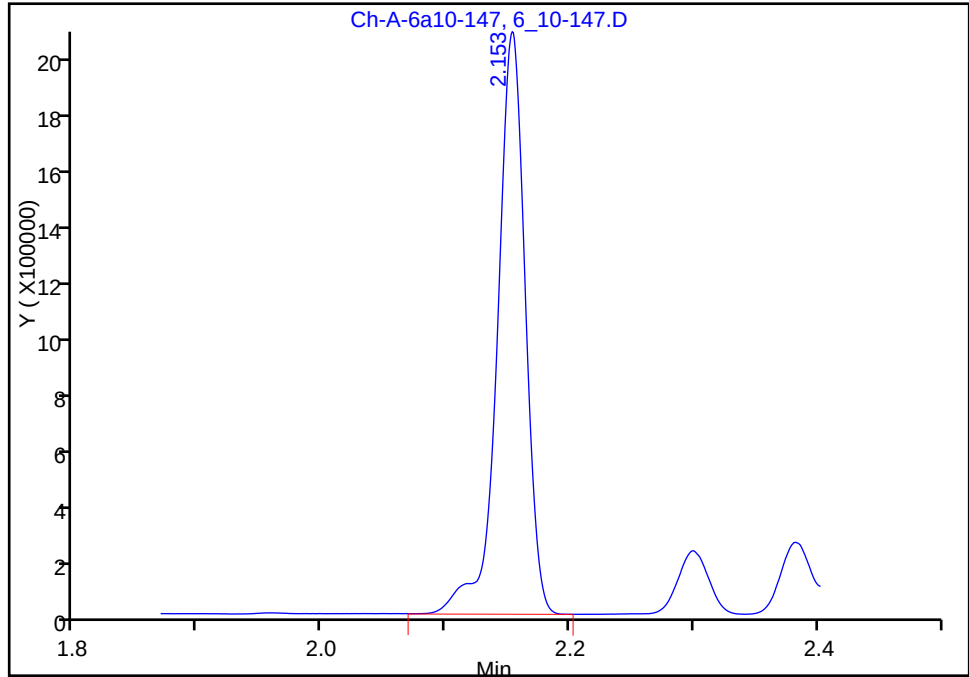
Ch-A-7A136

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

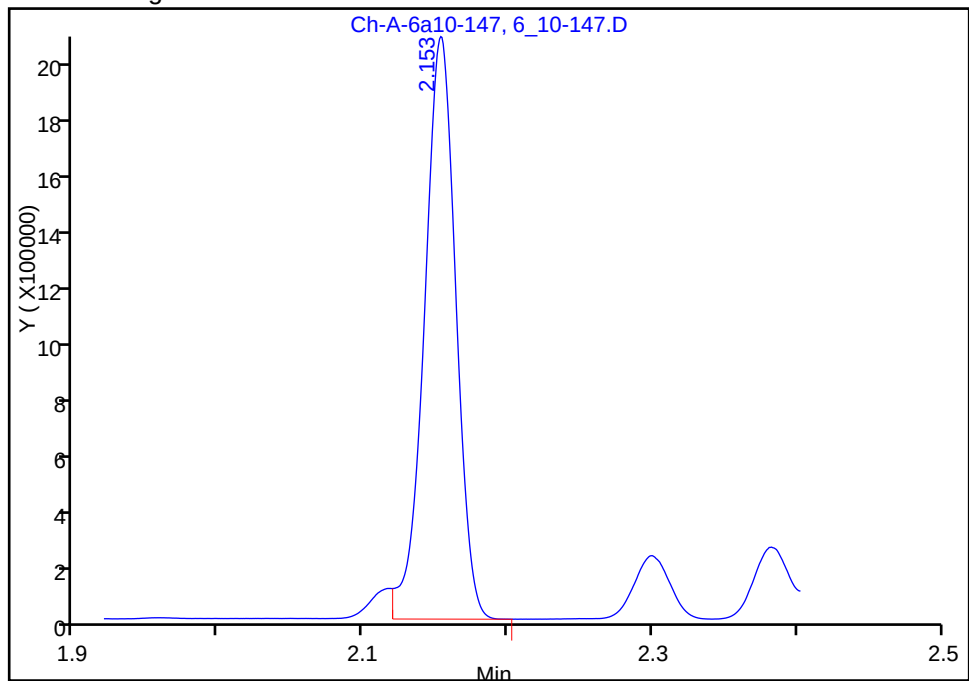
RT: 2.15
Area: 3178243
Amount: 0.045046
Amount Units: ng/uL

Processing Integration Results



RT: 2.15
Area: 3065530
Amount: 0.050326
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 16-Sep-2016 19:01:00

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-148.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 15-Sep-2016 20:16:07 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:30:40 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 17:07:35

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	1.165	1.164	0.001	27650053	0.5000	0.5000	
2	1.138	1.139	-0.001	50362921	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.154	2.157	-0.003	1410754	0.0250	0.0238	
2	1.809	1.811	-0.002	2496467	0.0250	0.0226	
RPD = 5.11							

6 PCB-1016

1	2.768	2.763	0.005	1694102	1.00	0.8138	
1	2.927	2.927	0.000	1233162	1.00	1.03	
1	3.138	3.139	-0.001	4150870	1.00	0.8659	
1	3.225	3.225	0.000	1546554	1.00	1.02	
1	3.288	3.289	-0.001	1075686	1.00	1.02	
Average of Peak Amounts =						0.9501	
2	2.588	2.591	-0.003	3341007	1.00	0.8762	
2	2.916	2.918	-0.002	7255107	1.00	0.9188	
2	3.037	3.038	-0.001	2751428	1.00	0.9139	
2	3.133	3.136	-0.003	1842254	1.00	0.9225	
2	3.423	3.423	-0.001	3195021	1.00	0.9156	
Average of Peak Amounts =						0.9094	
RPD = 4.38							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-148.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

M

1	5.037	5.037	0.000	2668546	1.00	0.8741	
1	5.167	5.167	0.000	1446153	1.00	0.8563	
1	5.358	5.357	0.001	1334417	1.00	0.8606	
1	5.563	5.564	-0.001	3245864	1.00	0.9187	M
1	5.803	5.805	-0.002	1469467	1.00	0.8782	

Average of Peak Amounts =

0.8776

2	4.816	4.818	-0.002	3970321	1.00	0.9561	
2	4.864	4.866	-0.002	3400664	1.00	0.9409	
2	5.129	5.132	-0.003	3530927	1.00	0.9697	
2	5.267	5.268	-0.001	9227920	1.00	1.00	
2	5.603	5.605	-0.002	5062725	1.00	0.9751	

Average of Peak Amounts =

0.9684

RPD = 9.84

\$ 15 DCB Decachlorobiphenyl

1	6.931	6.931	0.000	621109	0.0250	0.0256	
2	6.549	6.553	-0.003	1634928	0.0250	0.0252	

RPD = 1.76

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00005

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:30:41

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-148.D

Injection Date: 15-Sep-2016 20:16:07

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 6

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

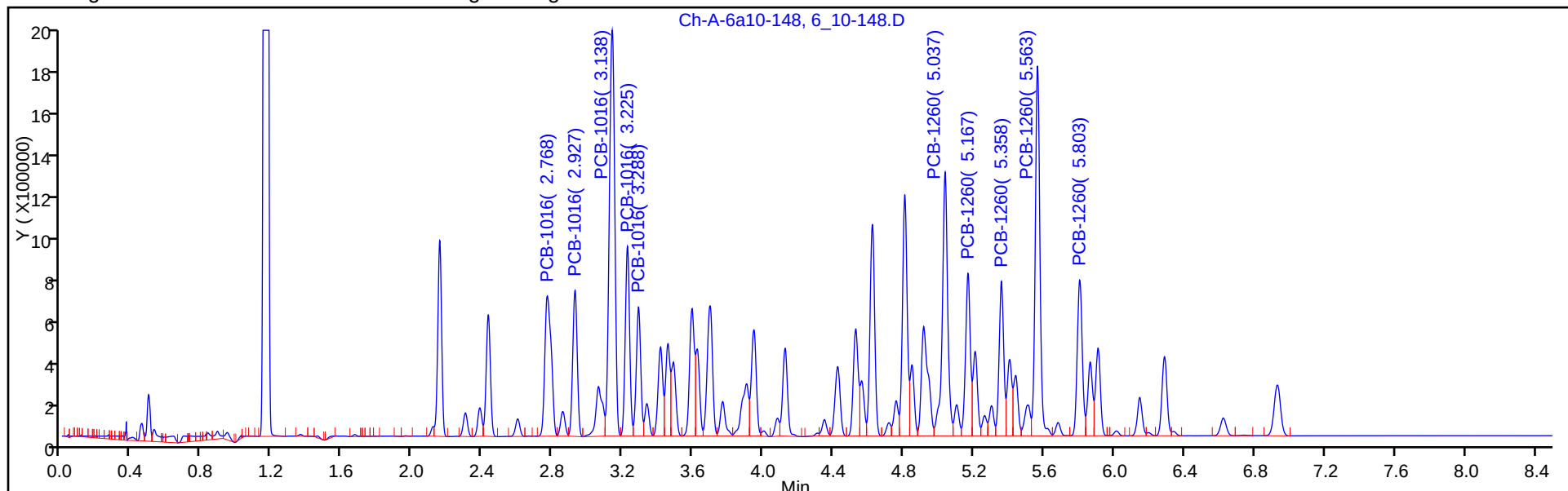
Dil. Factor: 1.0000

ALS Bottle#: 0

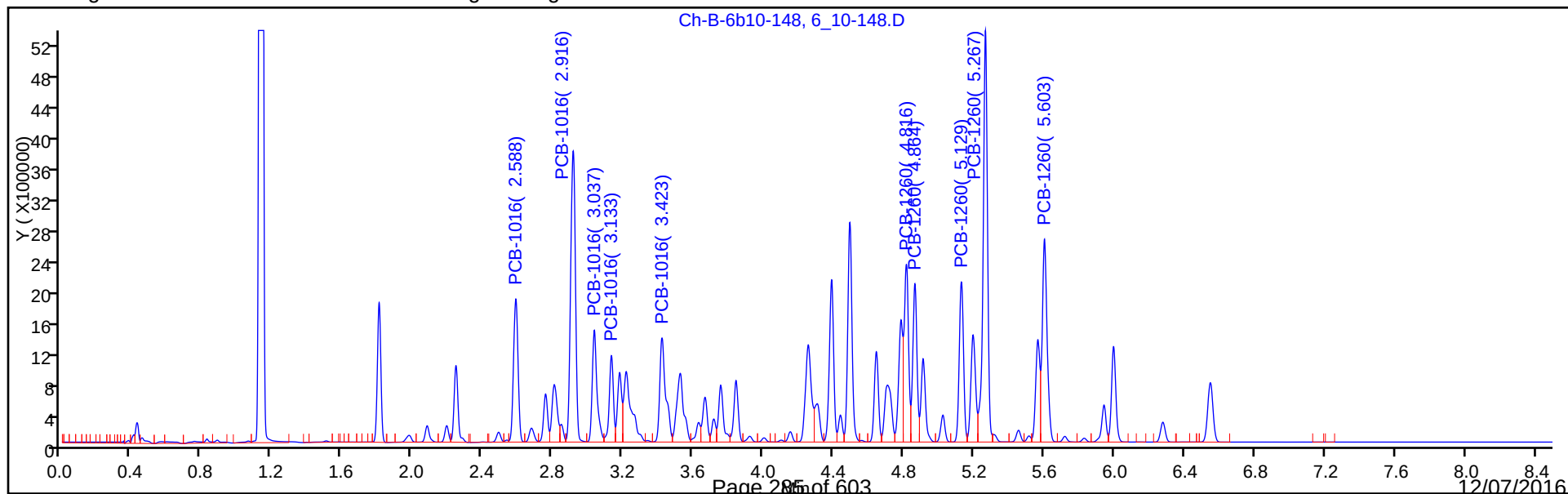
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-148.D

Injection Date: 15-Sep-2016 20:16:07

Instrument ID: HP6890-6

Lims ID: IC 6

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 4

Injection Vol: 1.0 ul

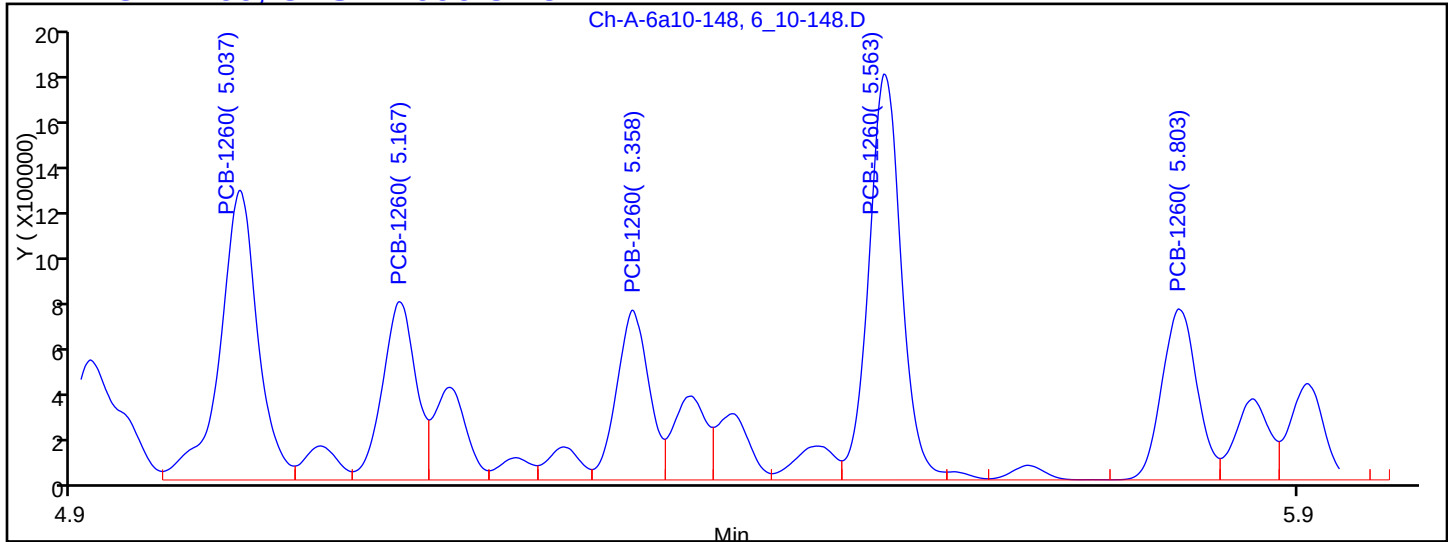
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

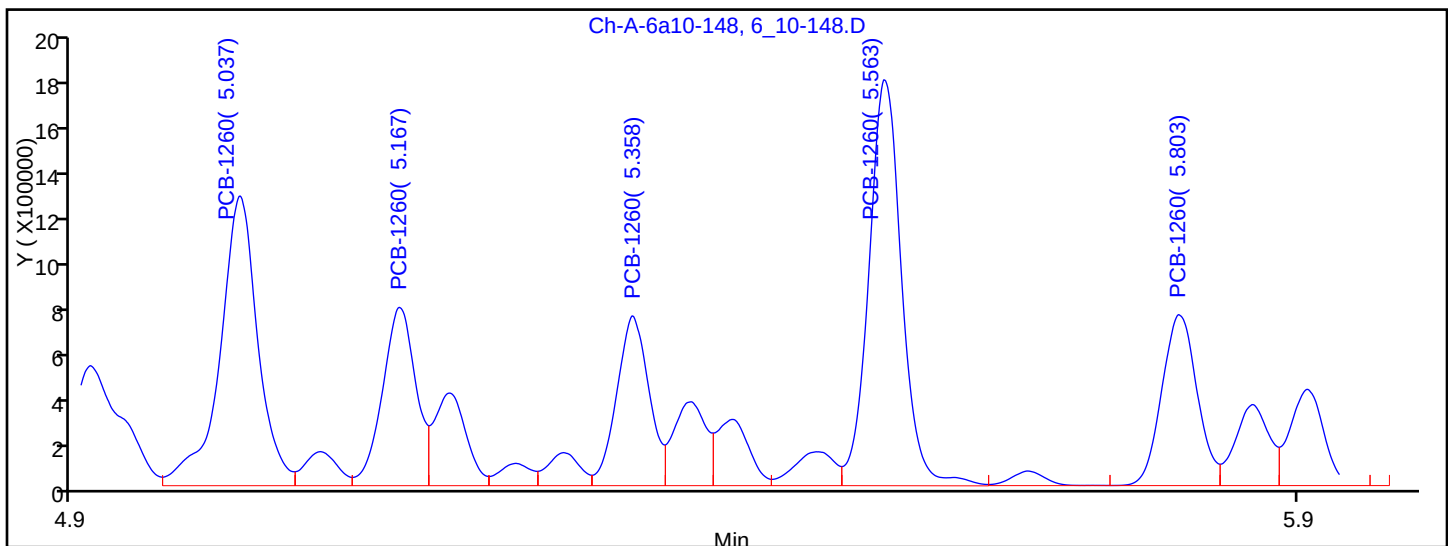
Column:

Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5

Processing Integration Results

5.037	Response = 2668546
5.167	Response = 1446153
5.358	Response = 1334417
5.563	Response = 3198334
5.803	Response = 1469467



Manual Integration Results

5.037	Response = 2668546
5.167	Response = 1446153
5.358	Response = 1334417
5.563	Response = 3245864
5.803	Response = 1469467

M

Reviewer: sobolk, 16-Sep-2016 18:54:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 286 of 603

12/07/2016

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-149.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 15-Sep-2016 20:32:13 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:30:45 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 16-Sep-2016 12:37:54

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	1.164	1.164	0.000	29194051	0.5000	0.5000	
2	1.138	1.138	0.000	52065101	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.154	2.154	0.000	809172	0.0125	0.0128	
2	1.809	1.809	0.000	1345629	0.0125	0.0118	
RPD = 8.09							

6 PCB-1016

1	2.769	2.769	0.000	1001599	0.5000	0.4557	
1	2.926	2.926	0.000	695144	0.5000	0.5386	
1	3.139	3.139	0.000	2227453	0.5000	0.4401	
1	3.225	3.225	0.000	848719	0.5000	0.5199	
1	3.290	3.290	0.000	587225	0.5000	0.5177	

Average of Peak Amounts = 0.4944

2	2.588	2.588	0.000	1806845	0.5000	0.4584	
2	2.916	2.916	0.000	3799494	0.5000	0.4654	
2	3.036	3.036	0.000	1458566	0.5000	0.4686	
2	3.134	3.134	0.000	972243	0.5000	0.4709	
2	3.423	3.423	0.000	1695859	0.5000	0.4701	

Average of Peak Amounts = 0.4667

RPD = 5.77

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-149.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	5.036	5.036	0.000	1404194	0.5000	0.4356	
1	5.166	5.166	0.000	774800	0.5000	0.4345	
1	5.358	5.358	0.000	708371	0.5000	0.4327	
1	5.564	5.564	0.000	1666362	0.5000	0.4467	
1	5.803	5.803	0.000	777999	0.5000	0.4404	

Average of Peak Amounts = 0.4380

2	4.817	4.817	0.000	2036933	0.5000	0.4745	
2	4.864	4.864	0.000	1749446	0.5000	0.4682	
2	5.130	5.130	0.000	1801258	0.5000	0.4785	
2	5.267	5.267	0.000	4667302	0.5000	0.4894	
2	5.603	5.603	0.000	2571833	0.5000	0.4791	

Average of Peak Amounts = 0.4780

RPD = 8.73

\$ 15 DCB Decachlorobiphenyl

1	6.933	6.933	0.000	336364	0.0125	0.0129	
2	6.549	6.549	0.000	863478	0.0125	0.0127	

RPD = 1.56

Reagents:

1660sur/is0.5_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:30:46

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-149.D

Injection Date: 15-Sep-2016 20:32:13

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: ICIS 5

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

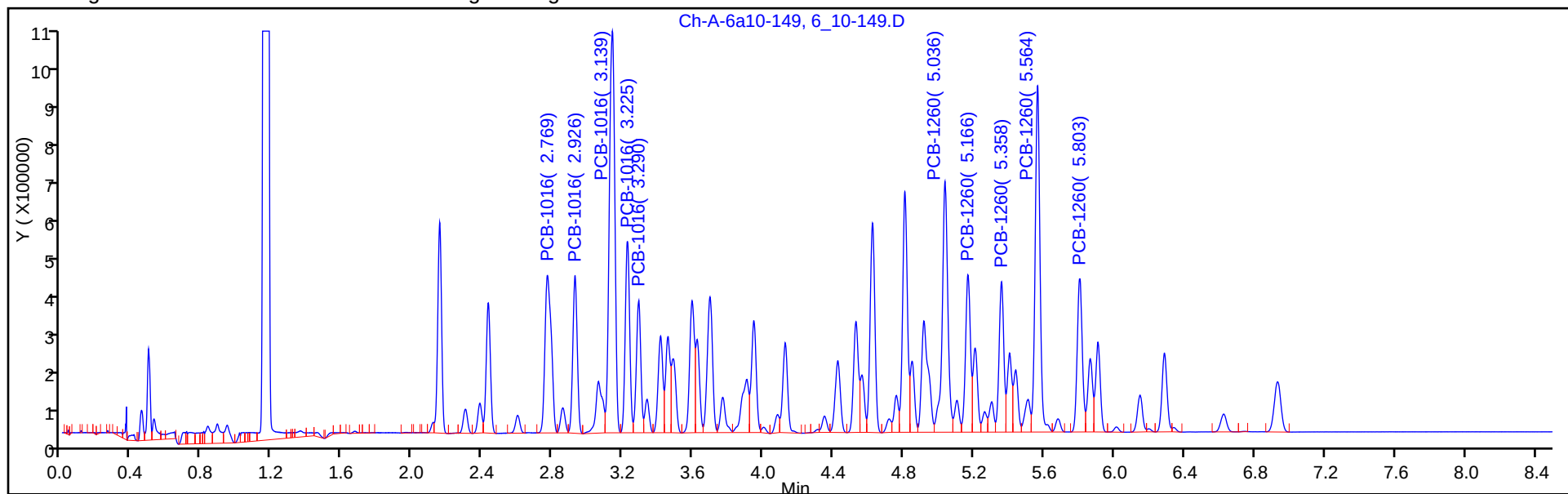
Dil. Factor: 1.0000

ALS Bottle#: 0

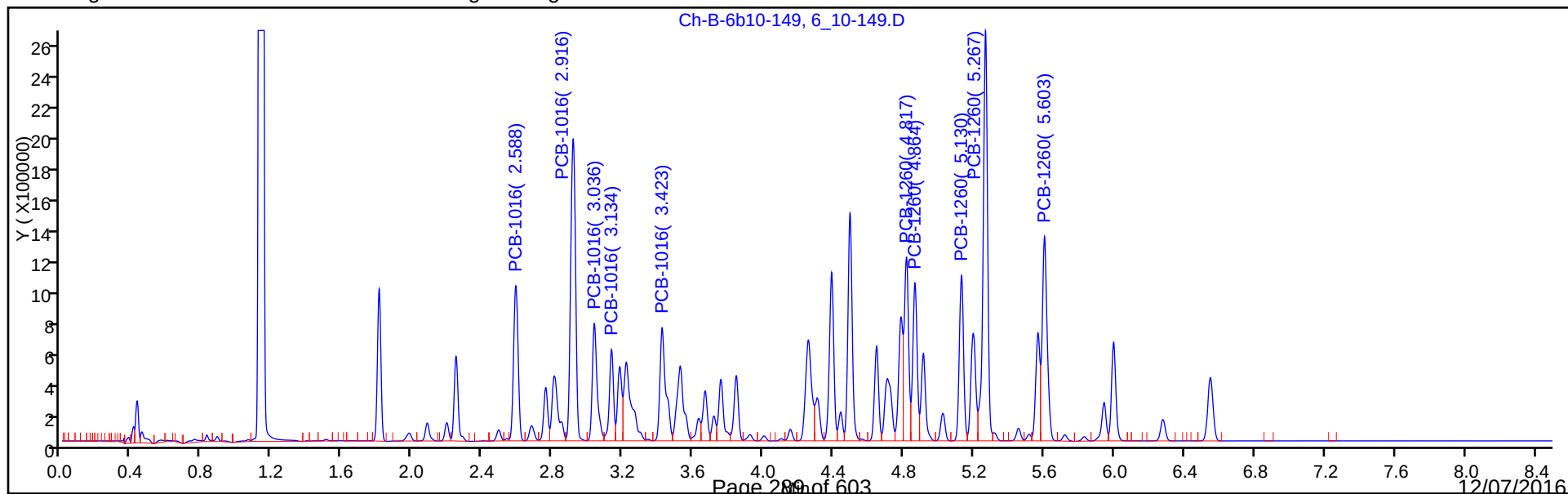
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-150.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-Sep-2016 20:48:10 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:30:49 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 16-Sep-2016 12:37:26

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	1.165	1.164	0.001	29118047	0.5000	0.5000	
2	1.138	1.138	0.000	52265109	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.155	2.154	0.001	359542	0.005000	0.005525	
2	1.810	1.809	0.001	573599	0.005000	0.005012	
RPD = 9.75							

6 PCB-1016

1	2.769	2.769	0.000	464531	0.2000	0.2119	
1	2.927	2.926	0.001	307897	0.2000	0.2255	
1	3.139	3.139	0.000	966461	0.2000	0.1914	
1	3.227	3.225	0.002	372904	0.2000	0.2165	
1	3.289	3.290	-0.001	254193	0.2000	0.2136	

Average of Peak Amounts = 0.2118

2	2.589	2.588	0.001	773433	0.2000	0.1955	
2	2.915	2.916	-0.001	1566683	0.2000	0.1912	
2	3.037	3.036	0.001	607565	0.2000	0.1945	
2	3.135	3.134	0.001	398714	0.2000	0.1924	
2	3.423	3.423	0.001	704359	0.2000	0.1945	

Average of Peak Amounts = 0.1936

RPD = 8.97

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-150.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	5.037	5.036	0.001	611269	0.2000	0.1901	
1	5.168	5.166	0.002	334247	0.2000	0.1879	
1	5.357	5.358	-0.001	311819	0.2000	0.1910	
1	5.565	5.564	0.001	704736	0.2000	0.1894	
1	5.803	5.803	0.000	332520	0.2000	0.1887	

Average of Peak Amounts = 0.1894

2	4.816	4.817	-0.001	827810	0.2000	0.1921	
2	4.866	4.864	0.002	708343	0.2000	0.1889	
2	5.130	5.130	0.000	721638	0.2000	0.1910	
2	5.267	5.267	0.000	1816046	0.2000	0.1897	
2	5.603	5.603	0.000	1043353	0.2000	0.1936	

Average of Peak Amounts = 0.1911

RPD = 0.85

\$ 15 DCB Decachlorobiphenyl

1	6.933	6.933	-0.001	144292	0.005000	0.005310	
2	6.550	6.549	0.001	363365	0.005000	0.005177	

RPD = 2.55

Reagents:

1660sur/is0.2_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:30:50

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-150.D

Injection Date: 15-Sep-2016 20:48:10

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 4

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

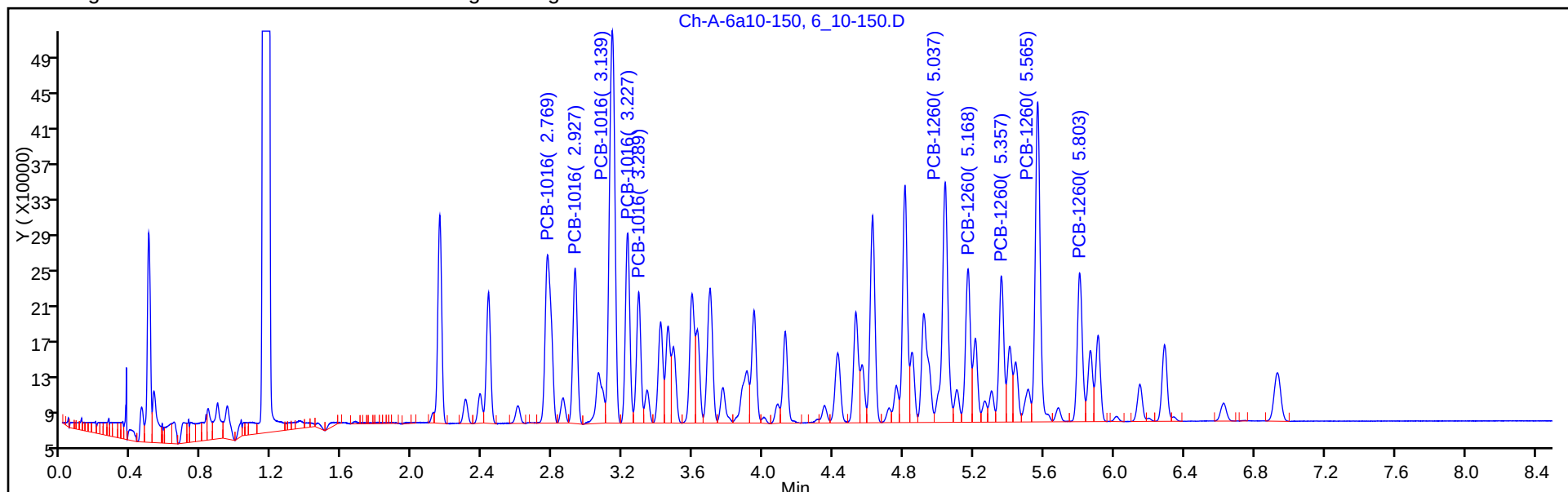
Dil. Factor: 1.0000

ALS Bottle#: 0

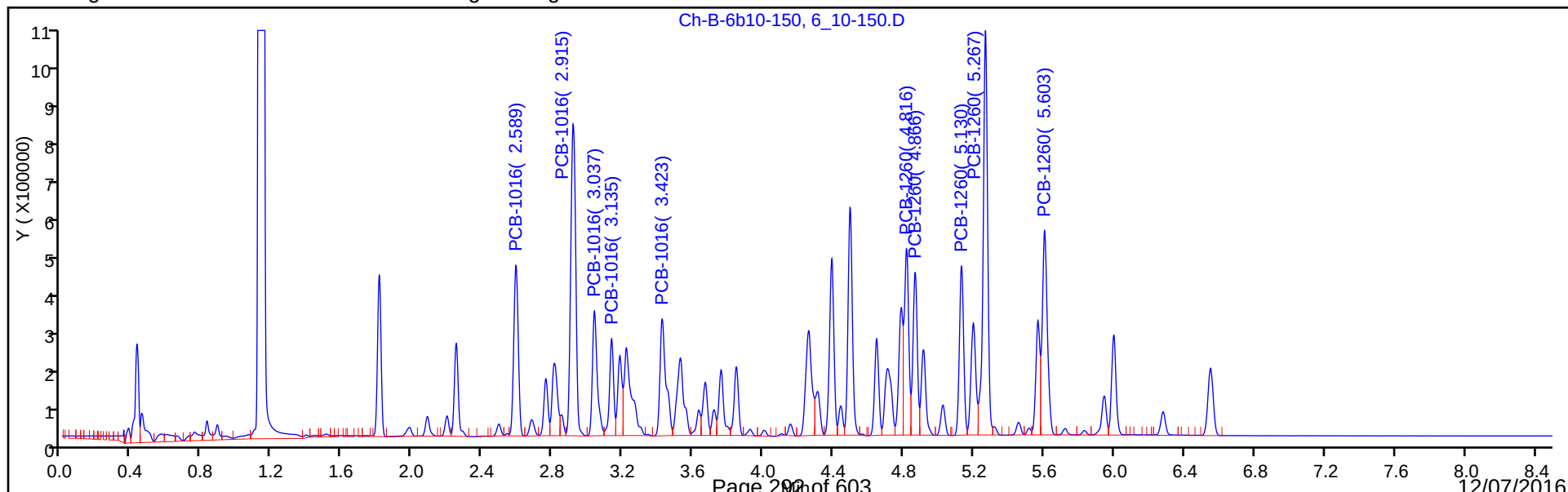
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-151.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-Sep-2016 21:04:14 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:30:55 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 16-Sep-2016 12:36:36

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	1.164	1.164	0.000	29192313	0.5000	0.5000	
2	1.138	1.138	0.000	52050161	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.153	2.154	-0.001	178191	0.002500	0.002571	
2	1.811	1.809	0.002	286936	0.002500	0.002517	
RPD = 2.11							

6 PCB-1016

1	2.767	2.769	-0.002	238211	0.1000	0.1084	
1	2.926	2.926	0.000	170003	0.1000	0.1131	M
1	3.137	3.139	-0.002	519791	0.1000	0.1027	M
1	3.223	3.225	-0.002	202846	0.1000	0.1072	M
1	3.289	3.290	-0.001	138028	0.1000	0.1067	M
Average of Peak Amounts =						0.1076	
2	2.589	2.588	0.001	407934	0.1000	0.1035	M
2	2.917	2.916	0.001	802216	0.1000	0.0983	M
2	3.036	3.036	0.000	313690	0.1000	0.1008	M
2	3.135	3.134	0.001	207616	0.1000	0.1006	M
2	3.424	3.423	0.002	361165	0.1000	0.1001	
Average of Peak Amounts =						0.1007	
RPD = 6.67							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-151.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

M

1	5.034	5.036	-0.002	324399	0.1000	0.1006	
1	5.167	5.166	0.001	180660	0.1000	0.1013	
1	5.358	5.358	0.000	164800	0.1000	0.1007	
1	5.563	5.564	-0.002	367524	0.1000	0.0985	
1	5.804	5.803	0.001	176262	0.1000	0.0998	

Average of Peak Amounts =

0.1002

2	4.818	4.817	0.001	418121	0.1000	0.0974	M
2	4.866	4.864	0.002	366804	0.1000	0.0982	M
2	5.131	5.130	0.001	368186	0.1000	0.0978	M
2	5.268	5.267	0.001	914704	0.1000	0.0959	M
2	5.605	5.603	0.002	522693	0.1000	0.0974	

Average of Peak Amounts =

0.0974

RPD = 2.86

\$ 15 DCB Decachlorobiphenyl

1	6.930	6.933	-0.003	79156	0.002500	0.002707	
2	6.551	6.549	0.002	194350	0.002500	0.002654	

RPD = 2.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00005

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:30:56

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-151.D

Injection Date: 15-Sep-2016 21:04:14

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 3

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

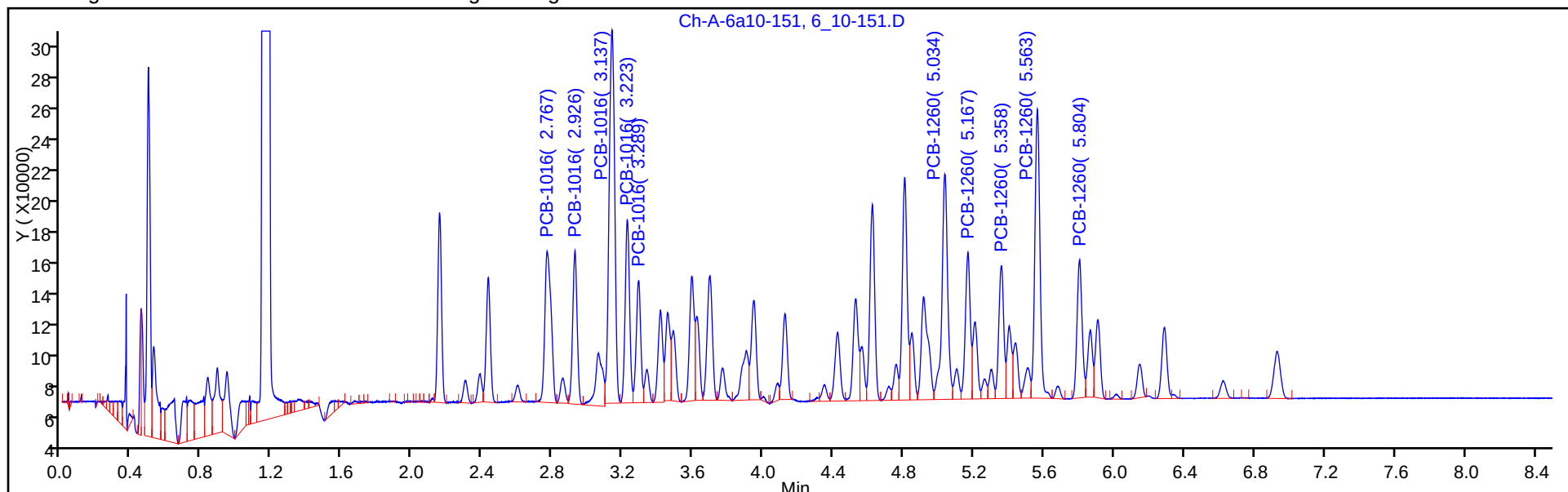
Dil. Factor: 1.0000

ALS Bottle#: 0

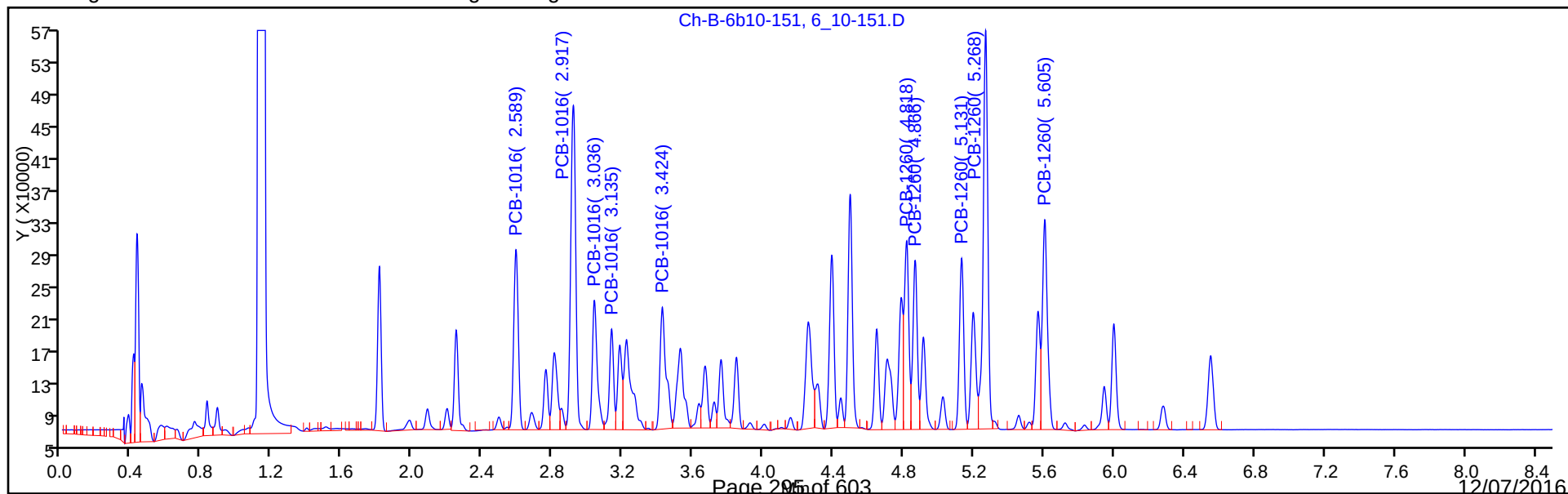
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-151.D

Injection Date: 15-Sep-2016 21:04:14

Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

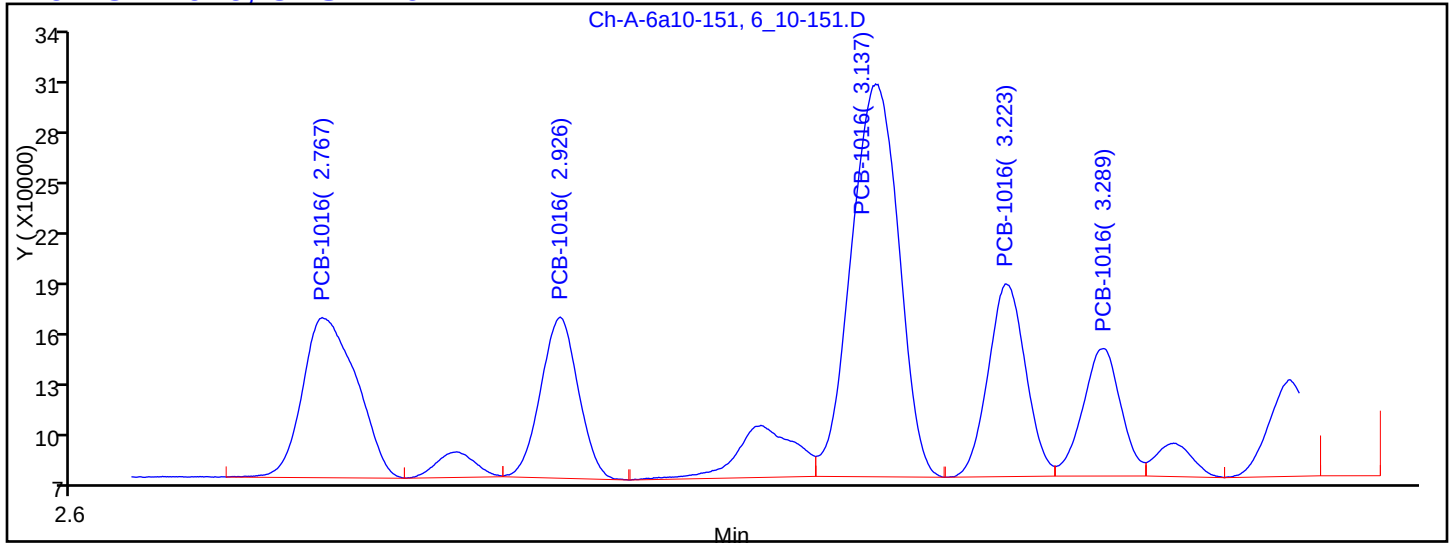
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

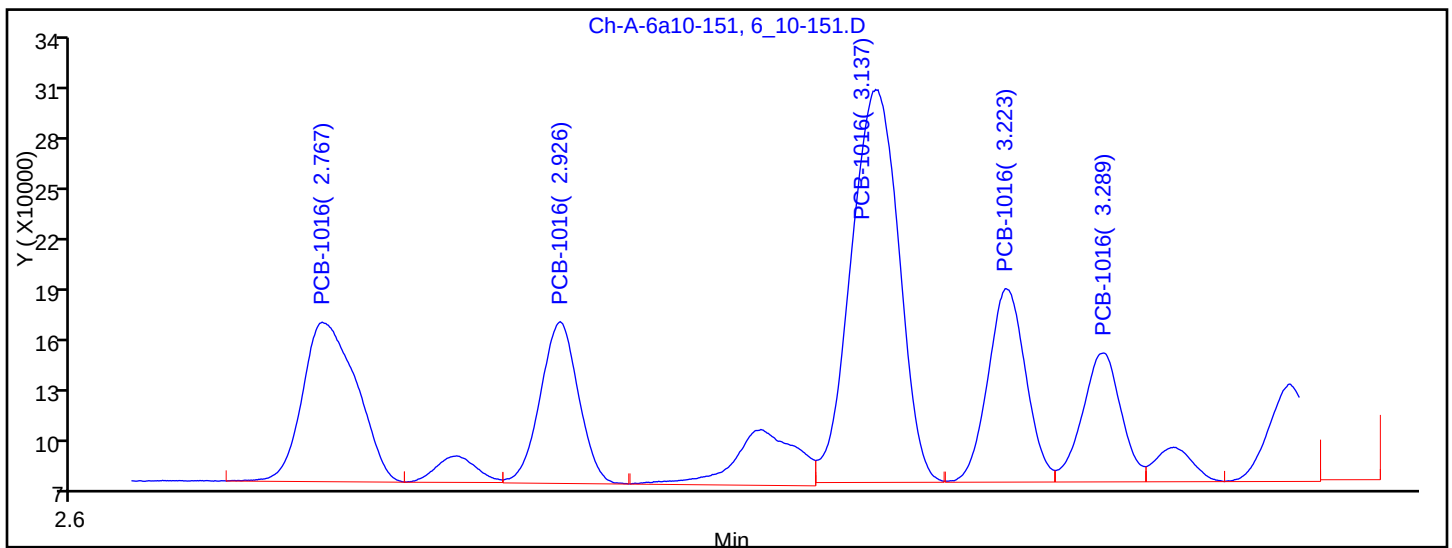
Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.767	Response = 238211
2.926	Response = 166493
3.137	Response = 514742
3.223	Response = 198895
3.289	Response = 133896



Manual Integration Results

2.767	Response = 238211	
2.926	Response = 170003	M
3.137	Response = 519791	M
3.223	Response = 202846	M
3.289	Response = 138028	M

Reviewer: sobolk, 16-Sep-2016 18:53:45

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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12/07/2016

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-152.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Sep-2016 21:20:07 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:31:02 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj

Date: 16-Sep-2016 12:35:59

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	1.164	1.164	0.000	28106711	0.5000	0.5000	
2	1.138	1.138	0.000	50200072	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.154	2.154	0.000	94550	0.001250	0.001275	M
2	1.810	1.809	0.001	143871	0.001250	0.001309	M
RPD = 2.63							

6 PCB-1016

1	2.767	2.769	-0.002	120123	0.0500	0.0568	M
1	2.926	2.926	0.000	91009	0.0500	0.0520	M
1	3.138	3.139	-0.001	277124	0.0500	0.0569	M
1	3.224	3.225	-0.001	110809	0.0500	0.0511	M
1	3.288	3.290	-0.002	75393	0.0500	0.0521	M
Average of Peak Amounts =						0.0538	
2	2.589	2.588	0.001	216225	0.0500	0.0569	M
2	2.917	2.916	0.001	416755	0.0500	0.0529	M
2	3.038	3.036	0.002	165415	0.0500	0.0551	M
2	3.135	3.134	0.001	109033	0.0500	0.0548	M
2	3.423	3.423	0.001	188753	0.0500	0.0543	
Average of Peak Amounts =						0.0548	
RPD = 1.93							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-152.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	5.033	5.036	-0.003	177793	0.0500	0.0573	
1	5.165	5.166	-0.001	101566	0.0500	0.0592	
1	5.355	5.358	-0.003	92079	0.0500	0.0584	
1	5.563	5.564	-0.002	199370	0.0500	0.0555	
1	5.803	5.803	-0.001	99110	0.0500	0.0583	

Average of Peak Amounts =

0.0577

2	4.817	4.817	0.000	214183	0.0500	0.0517	
2	4.866	4.864	0.002	191440	0.0500	0.0531	
2	5.131	5.130	0.001	189695	0.0500	0.0523	
2	5.268	5.267	0.001	462438	0.0500	0.0503	
2	5.603	5.603	-0.001	265757	0.0500	0.0514	

Average of Peak Amounts =

0.0518

RPD = 10.91

\$ 15 DCB Decachlorobiphenyl

1	6.931	6.933	-0.002	43121	0.001250	0.001341	
2	6.551	6.549	0.002	103117	0.001250	0.001337	

RPD = 0.34

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:31:03

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-152.D

Injection Date: 15-Sep-2016 21:20:07

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 2

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

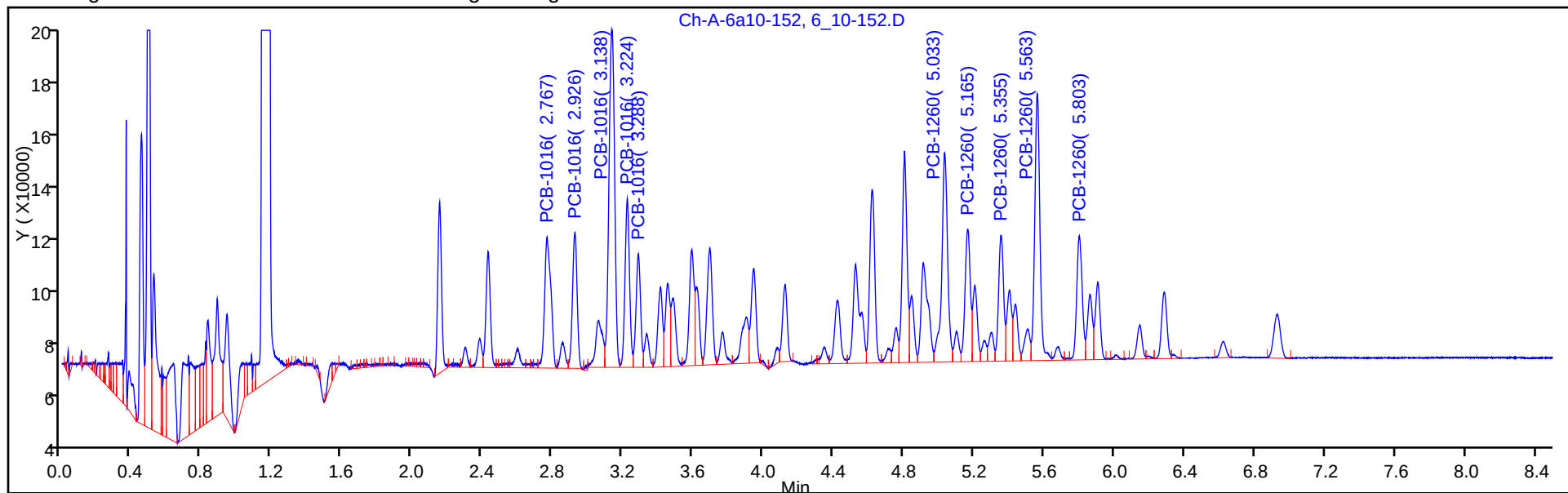
Dil. Factor: 1.0000

ALS Bottle#: 0

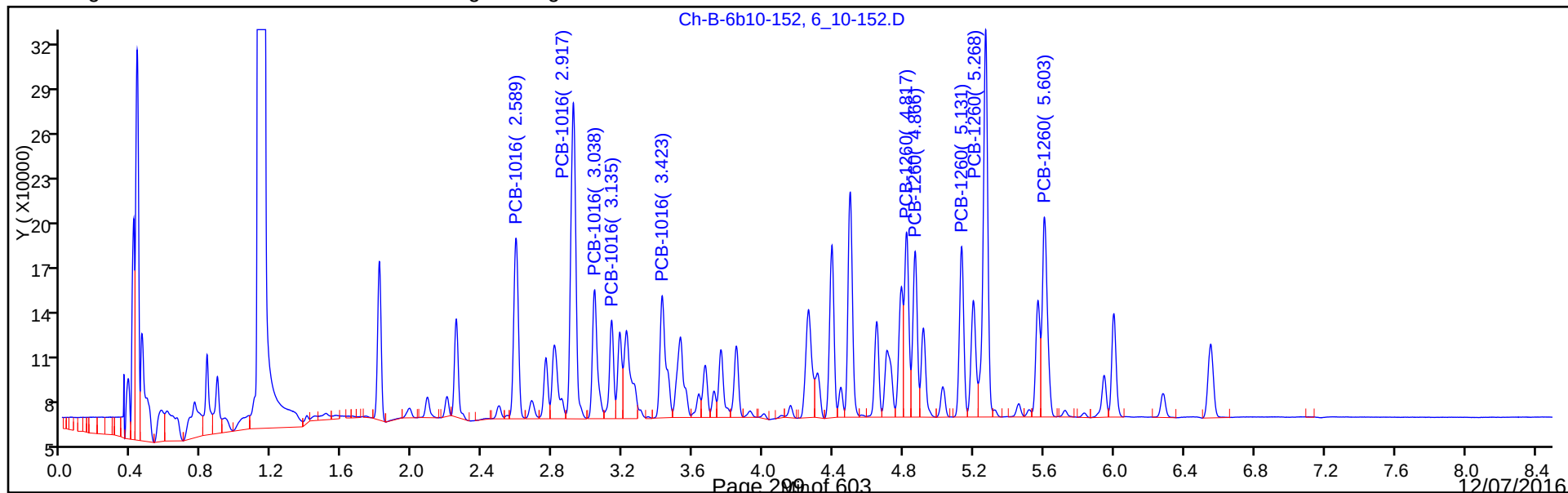
Method: 6890-6 PCB

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

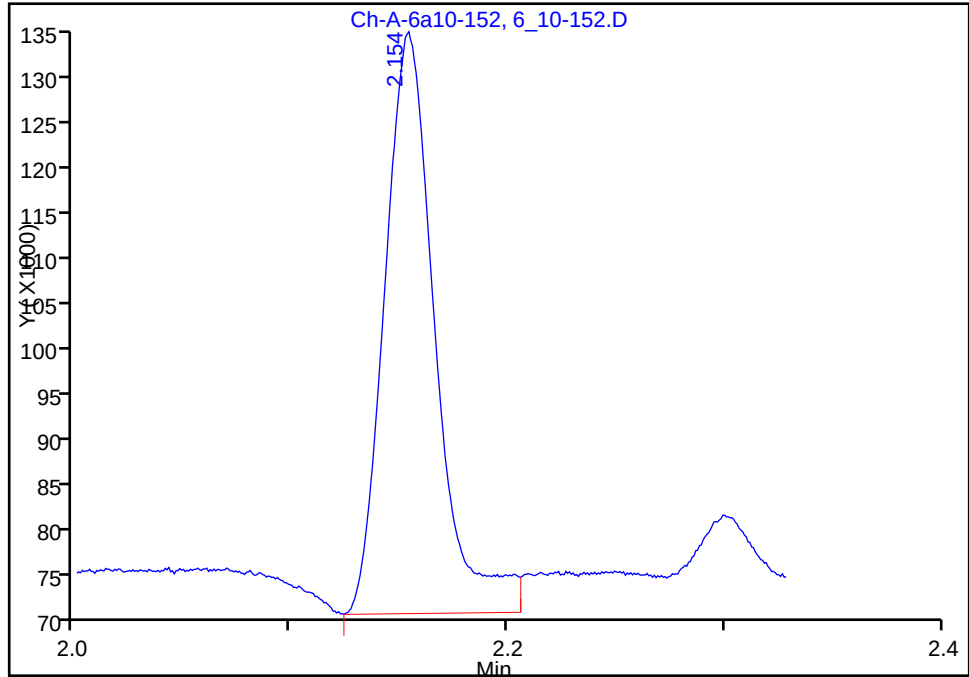
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-152.D		
Injection Date:	15-Sep-2016 21:20:07	Instrument ID:	HP6890-6
Lims ID:	IC 2		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0 Worklist Smp#: 8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector	Ch-A-7A136

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

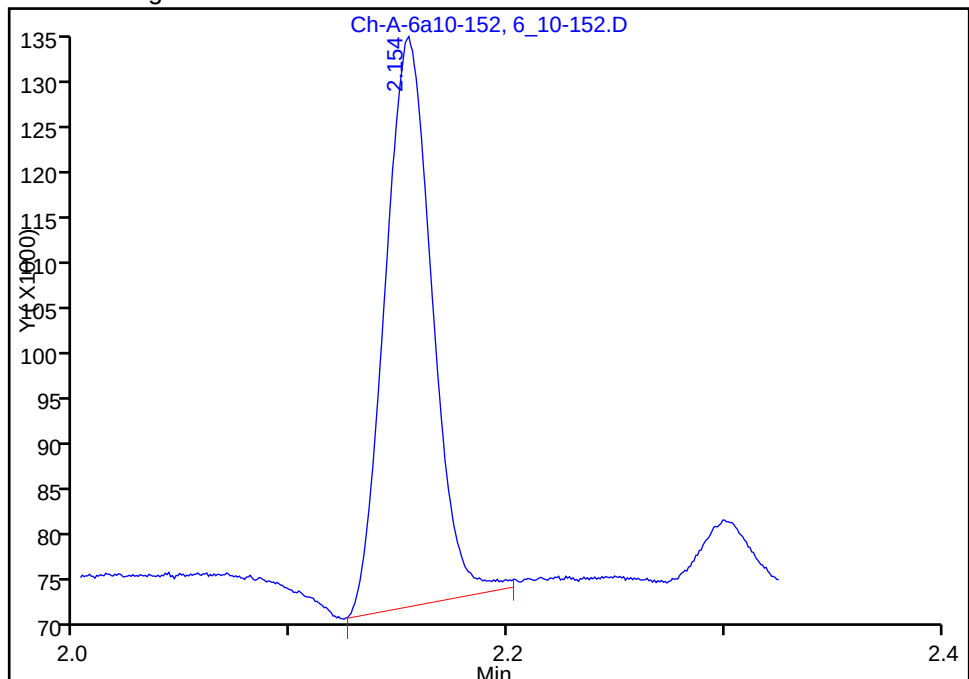
RT: 2.15
Area: 103195
Amount: 0.001469
Amount Units: ng/uL

Processing Integration Results



RT: 2.15
Area: 94550
Amount: 0.001275
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 16-Sep-2016 19:00:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-152.D

Injection Date: 15-Sep-2016 21:20:07

Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

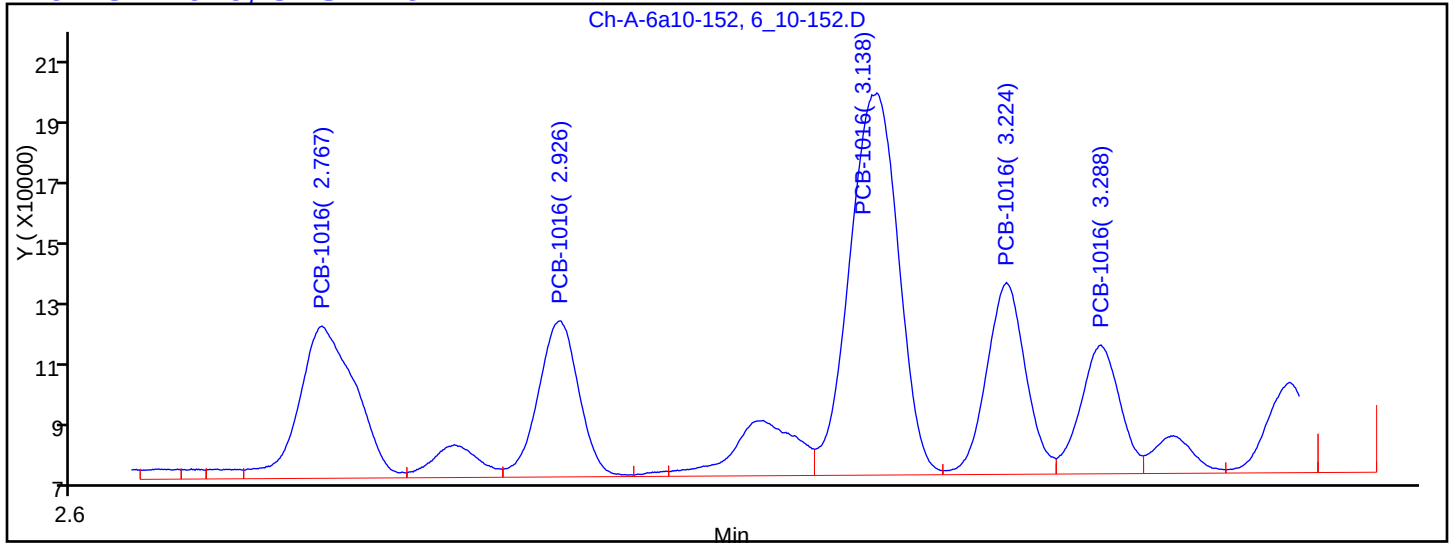
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

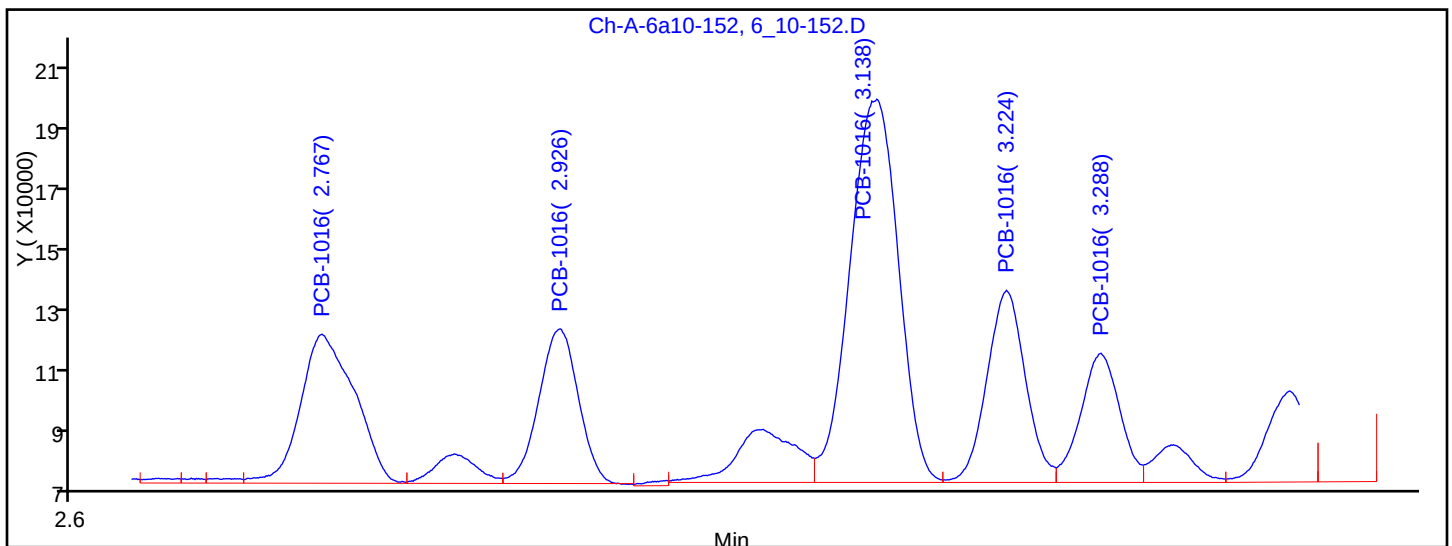
Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.767	Response = 129424
2.926	Response = 95572
3.138	Response = 280436
3.224	Response = 112707
3.288	Response = 76196



Manual Integration Results

2.767	Response = 120123	M
2.926	Response = 91009	M
3.138	Response = 277124	M
3.224	Response = 110809	M
3.288	Response = 75393	M

Reviewer: sobolk, 16-Sep-2016 18:55:12

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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12/07/2016

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-153.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Sep-2016 21:36:09 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:31:10 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 16-Sep-2016 12:34:31

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	1.165	1.165	0.000	27795172	0.5000	0.5000	
2	1.140	1.140	0.000	49634054	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.156	2.156	0.000	43979	0.000500	0.000432	
2	1.812	1.812	0.000	61381	0.000500	0.000565	
							RPD = 26.70

6 PCB-1016

1	2.767	2.767	0.000	49908	0.0200	0.0238	M
1	2.925	2.925	0.000	44133	0.0200	0.0129	M
1	3.138	3.138	0.000	124867	0.0200	0.0259	M
1	3.225	3.225	0.000	57087	0.0200	0.0159	M
1	3.289	3.289	0.000	36955	0.0200	0.0159	M

Average of Peak Amounts = 0.0189

2	2.591	2.591	0.000	91874	0.0200	0.0244	
2	2.917	2.917	0.000	187067	0.0200	0.0240	
2	3.038	3.038	0.000	68526	0.0200	0.0231	
2	3.136	3.136	0.000	44774	0.0200	0.0227	
2	3.425	3.425	0.000	79667	0.0200	0.0232	

Average of Peak Amounts = 0.0235

RPD = 21.71

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-153.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

M

1	5.034	5.034	0.000	79385	0.0200	0.0259	M
1	5.167	5.167	0.000	44283	0.0200	0.0261	M
1	5.357	5.357	0.000	40751	0.0200	0.0261	M
1	5.561	5.561	0.000	86012	0.0200	0.0242	M
1	5.803	5.803	0.000	42706	0.0200	0.0254	

Average of Peak Amounts =

0.0255

2	4.818	4.818	0.000	93683	0.0200	0.0229	
2	4.865	4.865	0.000	84097	0.0200	0.0236	
2	5.132	5.132	0.000	79813	0.0200	0.0222	
2	5.268	5.268	0.000	192632	0.0200	0.0212	M
2	5.604	5.604	0.000	111033	0.0200	0.0217	

Average of Peak Amounts =

0.0223

RPD = 13.43

\$ 15 DCB Decachlorobiphenyl

1	6.931	6.931	0.000	19528	0.000500	0.000377	
2	6.549	6.549	0.000	43365	0.000500	0.000412	

RPD = 8.83

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:31:10

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-153.D

Injection Date: 15-Sep-2016 21:36:09

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 1

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

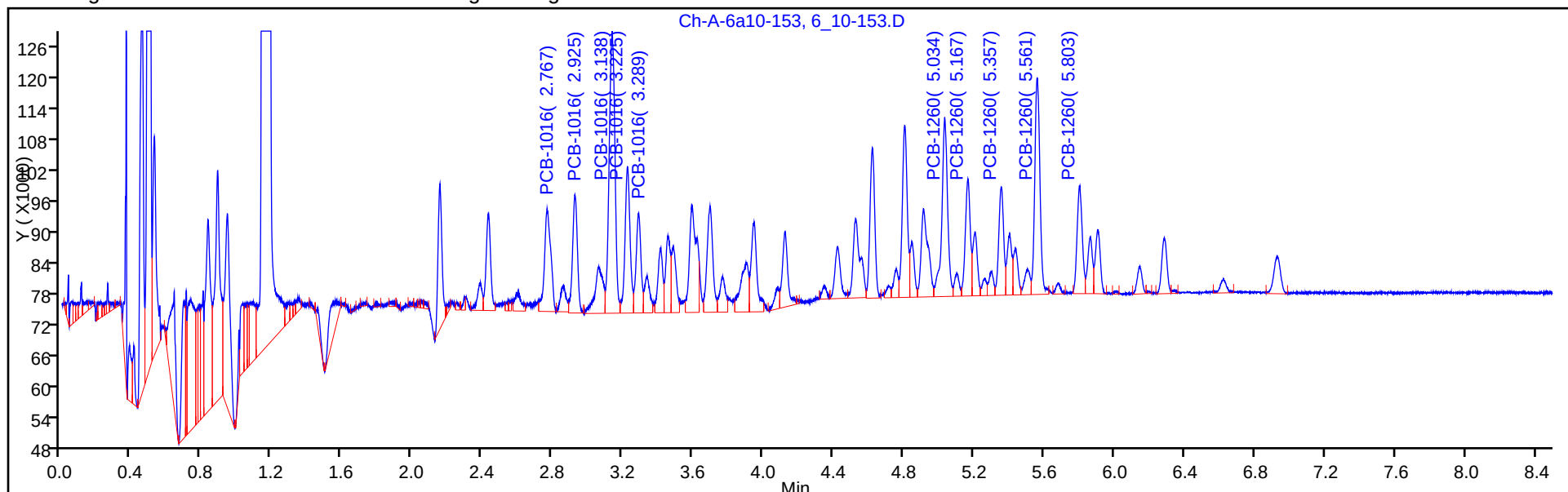
Dil. Factor: 1.0000

ALS Bottle#: 0

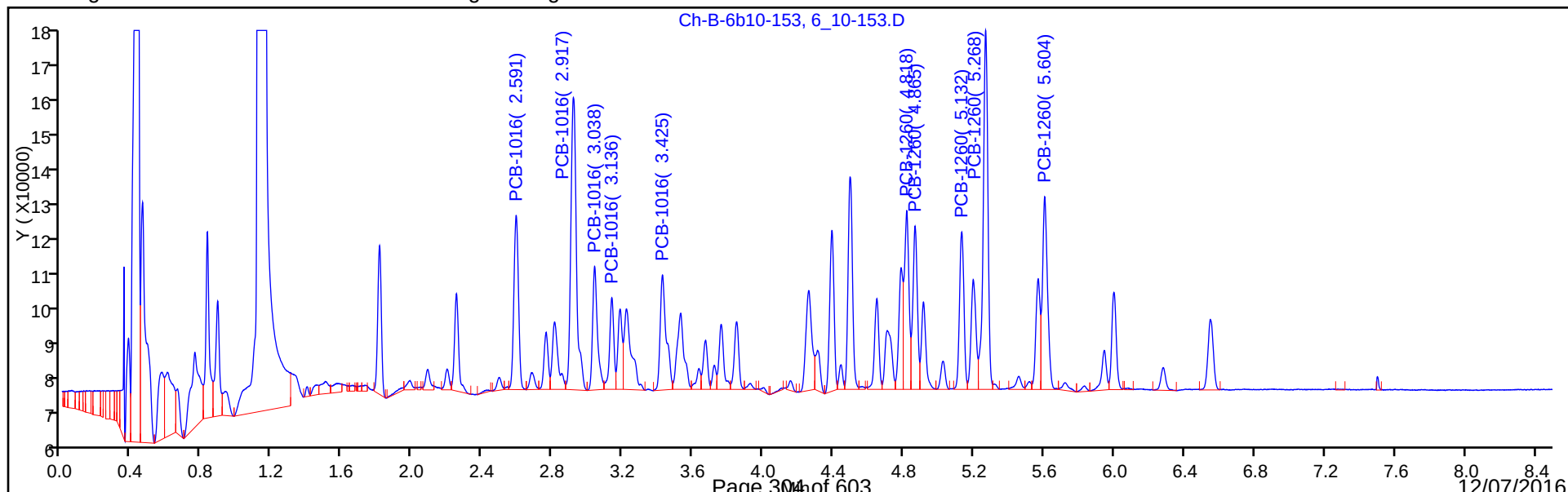
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-153.D

Injection Date: 15-Sep-2016 21:36:09

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

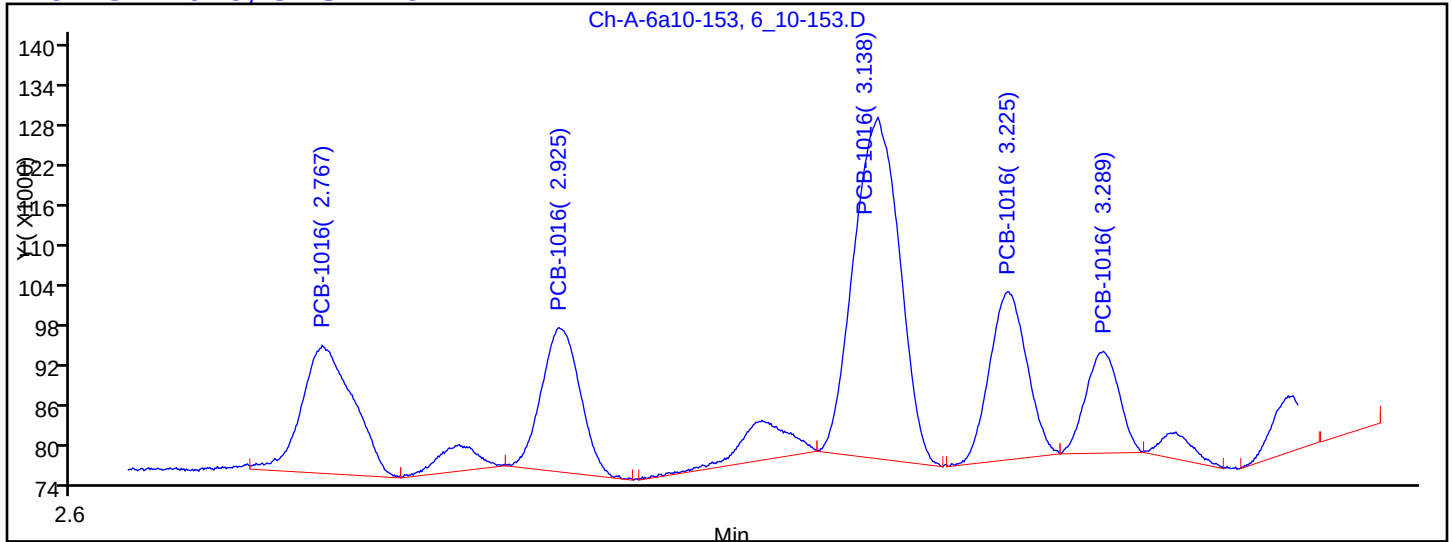
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

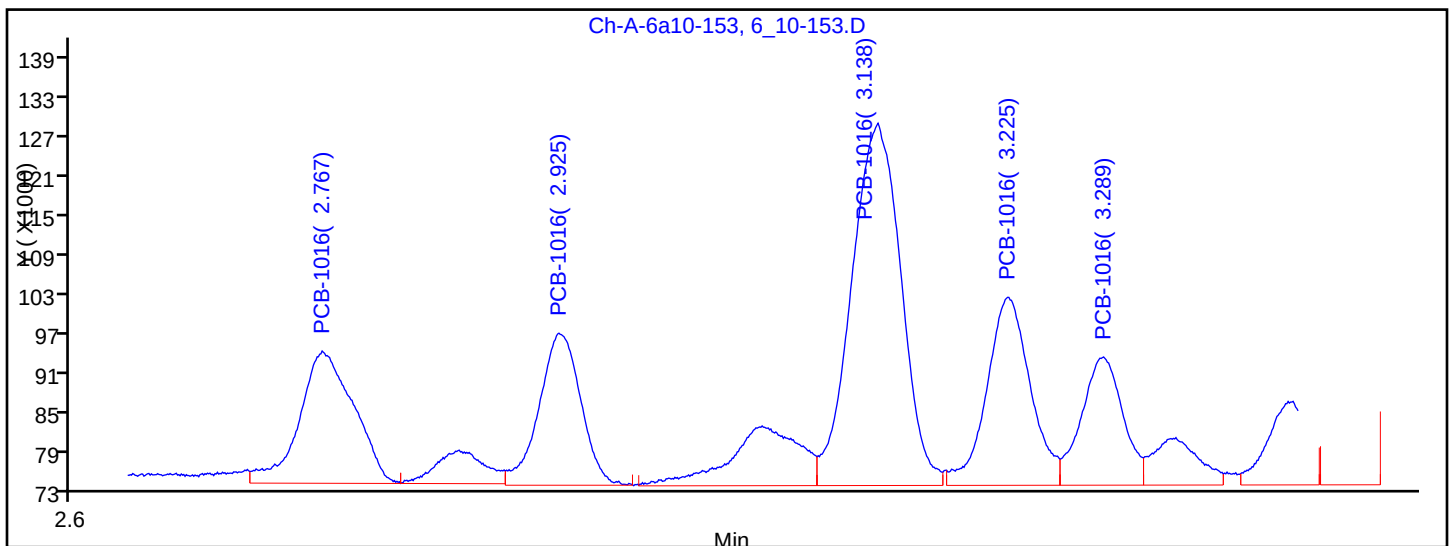
Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.767	Response = 46088
2.925	Response = 38997
3.138	Response = 109025
3.225	Response = 43824
3.289	Response = 23669



Manual Integration Results

2.767	Response = 49908	M
2.925	Response = 44133	M
3.138	Response = 124867	M
3.225	Response = 57087	M
3.289	Response = 36955	M

Reviewer: sobolk, 16-Sep-2016 18:56:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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12/07/2016

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-153.D

Injection Date: 15-Sep-2016 21:36:09

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 9

Injection Vol: 1.0 ul

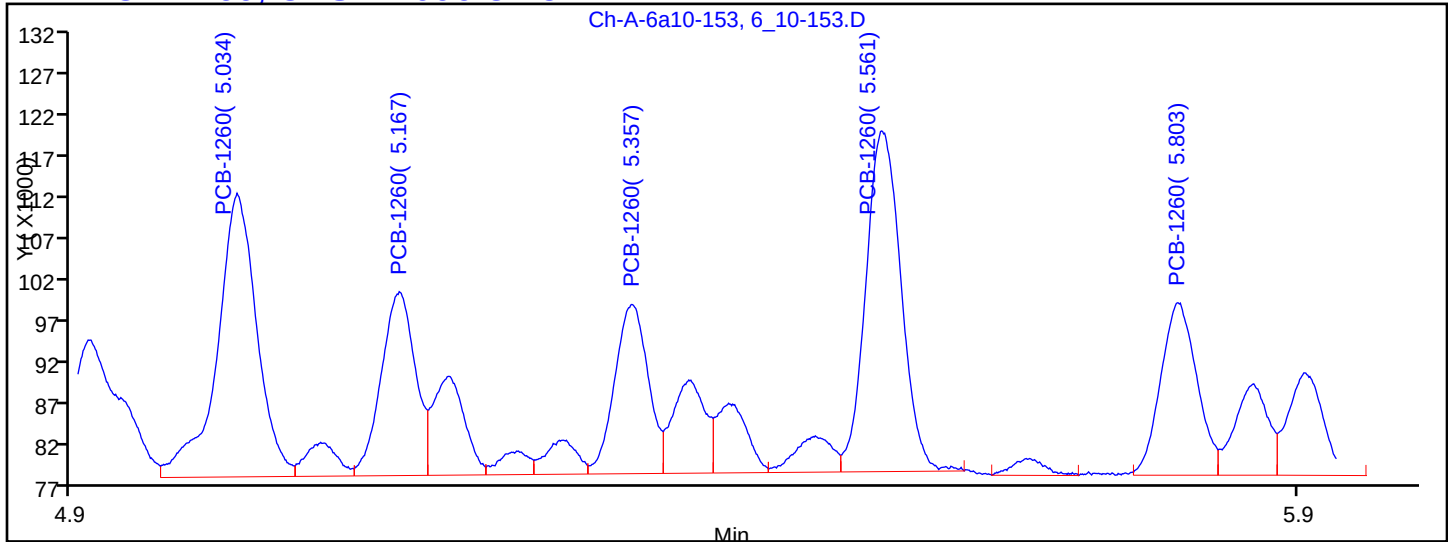
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

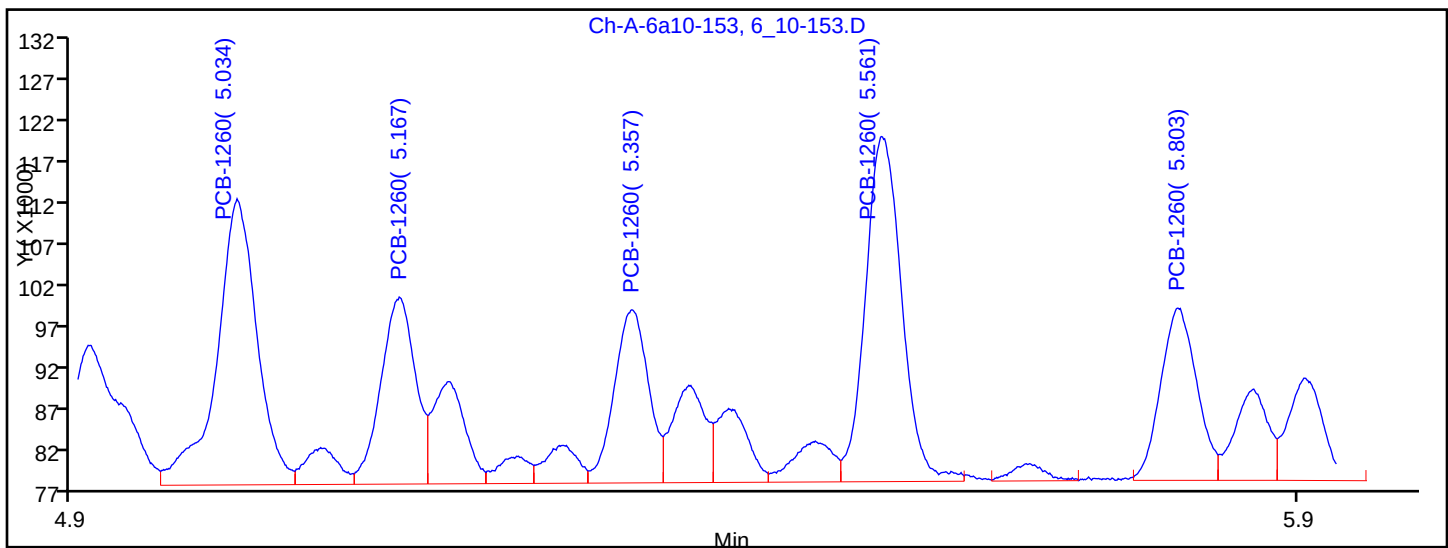
Column:

Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5

Processing Integration Results

5.034	Response = 77131
5.167	Response = 42835
5.357	Response = 38934
5.561	Response = 82409
5.803	Response = 42706



Manual Integration Results

5.034	Response = 79385	M
5.167	Response = 44283	M
5.357	Response = 40751	M
5.561	Response = 86012	M
5.803	Response = 42706	

Reviewer: sobolk, 16-Sep-2016 18:56:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 306 of 603

12/07/2016

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 20:00 Calibration End Date: 09/15/2016 21:36 Calibration ID: 28348

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/9	6_10-153.D
Level 2	IC 480-320599/8	6_10-152.D
Level 3	IC 480-320599/7	6_10-151.D
Level 4	IC 480-320599/6	6_10-150.D
Level 5	ICIS 480-320599/5	6_10-149.D
Level 6	IC 480-320599/4	6_10-148.D
Level 7	IC 480-320599/3	6_10-147.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	0.0463 0.0332	0.0431 0.0316	0.0392	0.0370	0.0347	Ave		0.0379				14.1		20.0			
PCB-1016 Peak 2	0.0942 0.0720	0.0830 0.0745	0.0771	0.0749	0.0730	Ave		0.0784				10.0		20.0			
PCB-1016 Peak 3	0.0345 0.0273	0.0330 0.0272	0.0301	0.0291	0.0280	Ave		0.0299				9.5		20.0			
PCB-1016 Peak 4	0.0226 0.0183	0.0217 0.0185	0.0199	0.0191	0.0187	Ave		0.0198				8.5		20.0			
PCB-1016 Peak 5	0.0401 0.0317	0.0376 0.0321	0.0347	0.0337	0.0326	Ave		0.0346				9.1		20.0			
PCB-1260 Peak 1	0.0472 0.0394	0.0427 0.0404	0.0402	0.0396	0.0391	Ave		0.0412				7.0		20.0			
PCB-1260 Peak 2	0.0424 0.0338	0.0381 0.0342	0.0352	0.0339	0.0336	Ave		0.0359				9.1		20.0			
PCB-1260 Peak 3	0.0402 0.0351	0.0378 0.0355	0.0354	0.0345	0.0346	Ave		0.0361				5.8		20.0			
PCB-1260 Peak 4	0.0970 0.0916	0.0921 0.0959	0.0879	0.0869	0.0896	Ave		0.0916				4.2		20.0			
PCB-1260 Peak 5	0.0559 0.0503	0.0529 0.0522	0.0502	0.0499	0.0494	Ave		0.0515				4.5		20.0			
Tetrachloro-m-xylene	1.2367 0.9914	1.1464 1.0562	1.1025	1.0975	1.0338	Ave		1.0949				7.3		20.0			
DCB Decachlorobiphenyl	0.8737 0.6493	0.8216 0.6320	0.7468	0.6952	0.6634	Lin1	0.0002	0.6378							0.9990		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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 20:00 Calibration End Date: 09/15/2016 21:36 Calibration ID: 28348

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/9	6_10-153.D
Level 2	IC 480-320599/8	6_10-152.D
Level 3	IC 480-320599/7	6_10-151.D
Level 4	IC 480-320599/6	6_10-150.D
Level 5	ICIS 480-320599/5	6_10-149.D
Level 6	IC 480-320599/4	6_10-148.D
Level 7	IC 480-320599/3	6_10-147.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	91874 3341007	216225 6590245	407934	773433	1806845	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Ave	187067 7255107	416755 15556109	802216	1566683	3799494	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Ave	68526 2751428	165415 5686623	313690	607565	1458566	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Ave	44774 1842254	109033 3869860	207616	398714	972243	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Ave	79667 3195021	188753 6699219	361165	704359	1695859	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Ave	93683 3970321	214183 8437258	418121	827810	2036933	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Ave	84097 3400664	191440 7139245	366804	708343	1749446	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Ave	79813 3530927	189695 7414569	368186	721638	1801258	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Ave	192632 9227920	462438 20020595	914704	1816046	4667302	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Ave	111033 5062725	265757 10893542	522693	1043353	2571833	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Ave	61381 2496467	143871 5511632	286936	573599	1345629	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	43365 1634928	103117 3297871	194350	363365	863478	0.000500 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\HP6890-06\20160915-56412.b\6_10-147.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 15-Sep-2016 20:00:13 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:30:28 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 15-Sep-2016 20:15:33

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	1.163	1.164	-0.001	28640205	0.5000	0.5000	
2	1.137	1.139	-0.002	52182979	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.153	2.157	-0.004	3065530	0.0500	0.0503	M
2	1.808	1.811	-0.003	5511632	0.0500	0.0482	M
RPD = 4.25							

6 PCB-1016

1	2.768	2.763	0.005	3466183	2.00	1.61	
1	2.926	2.927	-0.001	2327656	2.00	1.90	
1	3.138	3.139	-0.001	8307261	2.00	1.67	
1	3.224	3.225	-0.001	3010392	2.00	1.94	
1	3.288	3.289	-0.001	2105770	2.00	1.94	
Average of Peak Amounts =						1.81	
2	2.587	2.591	-0.004	6590245	2.00	1.67	
2	2.914	2.918	-0.004	15556109	2.00	1.90	
2	3.034	3.038	-0.004	5686623	2.00	1.82	
2	3.133	3.136	-0.003	3869860	2.00	1.87	
2	3.421	3.423	-0.002	6699219	2.00	1.85	

Average of Peak Amounts = 1.82

RPD = 0.60

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-147.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	5.036	5.037	-0.001	5427771	2.00	1.72	
1	5.168	5.167	0.001	2919910	2.00	1.67	
1	5.357	5.357	0.000	2689109	2.00	1.67	
1	5.563	5.564	-0.001	6838729	2.00	1.87	
1	5.803	5.805	-0.002	2998546	2.00	1.73	

Average of Peak Amounts = 1.73

2	4.814	4.818	-0.004	8437258	2.00	1.96	
2	4.864	4.866	-0.002	7139245	2.00	1.91	
2	5.128	5.132	-0.004	7414569	2.00	1.97	
2	5.265	5.268	-0.003	20020595	2.00	2.09	a
2	5.603	5.605	-0.003	10893542	2.00	2.02	

Average of Peak Amounts = 1.99

RPD = 13.90

\$ 15 DCB Decachlorobiphenyl

1	6.929	6.931	-0.002	1207352	0.0500	0.0485	a
2	6.547	6.553	-0.005	3297871	0.0500	0.0493	a

RPD = 1.64

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:30:31

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-147.D

Injection Date: 15-Sep-2016 20:00:13

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 7

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

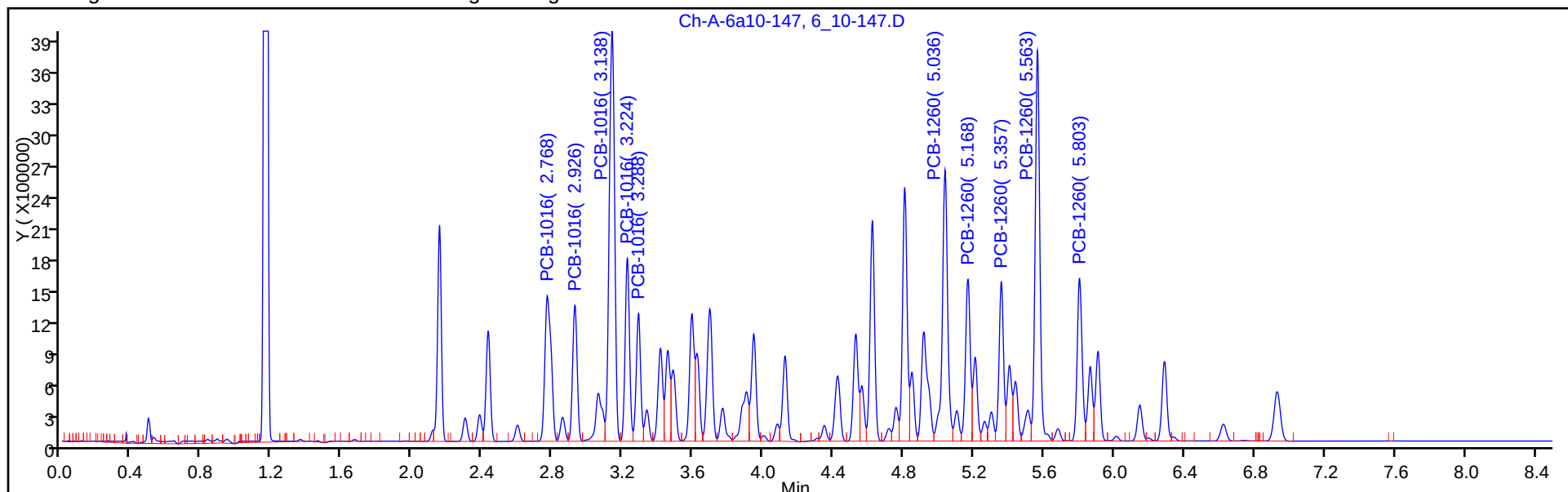
Dil. Factor: 1.0000

ALS Bottle#: 0

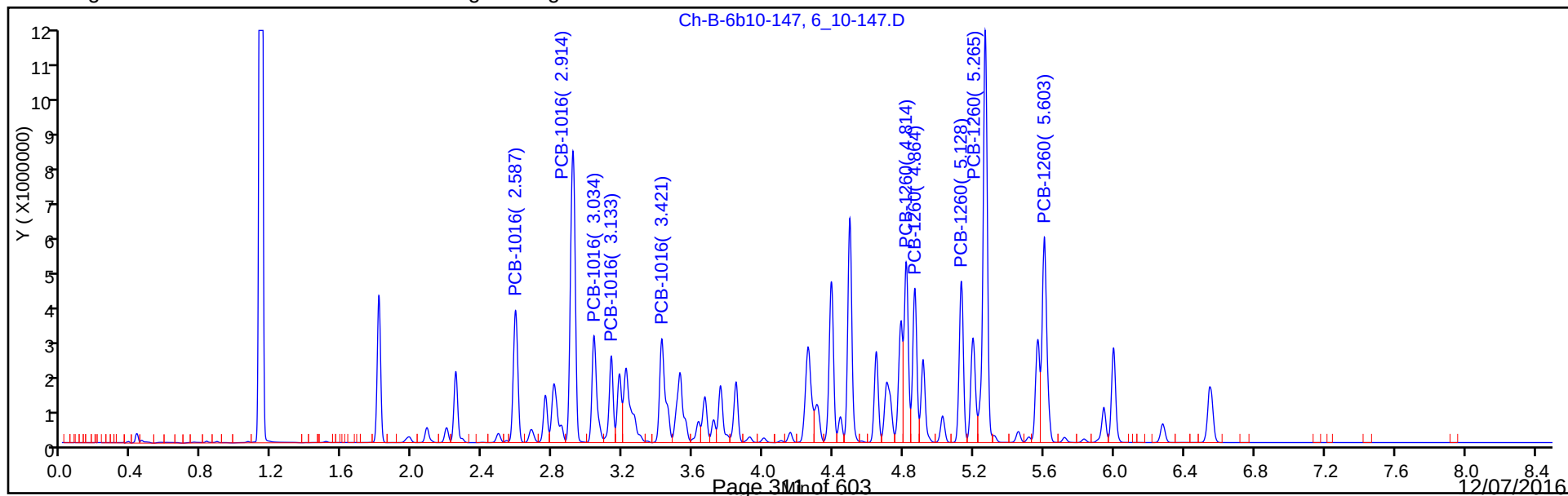
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-148.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 15-Sep-2016 20:16:07 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:30:40 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 17:07:35

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	1.165	1.164	0.001	27650053	0.5000	0.5000	
2	1.138	1.139	-0.001	50362921	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.154	2.157	-0.003	1410754	0.0250	0.0238	
2	1.809	1.811	-0.002	2496467	0.0250	0.0226	
RPD = 5.11							

6 PCB-1016

1	2.768	2.763	0.005	1694102	1.00	0.8138	
1	2.927	2.927	0.000	1233162	1.00	1.03	
1	3.138	3.139	-0.001	4150870	1.00	0.8659	
1	3.225	3.225	0.000	1546554	1.00	1.02	
1	3.288	3.289	-0.001	1075686	1.00	1.02	
Average of Peak Amounts =						0.9501	
2	2.588	2.591	-0.003	3341007	1.00	0.8762	
2	2.916	2.918	-0.002	7255107	1.00	0.9188	
2	3.037	3.038	-0.001	2751428	1.00	0.9139	
2	3.133	3.136	-0.003	1842254	1.00	0.9225	
2	3.423	3.423	-0.001	3195021	1.00	0.9156	
Average of Peak Amounts =						0.9094	
RPD = 4.38							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-148.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

M

1	5.037	5.037	0.000	2668546	1.00	0.8741	
1	5.167	5.167	0.000	1446153	1.00	0.8563	
1	5.358	5.357	0.001	1334417	1.00	0.8606	
1	5.563	5.564	-0.001	3245864	1.00	0.9187	M
1	5.803	5.805	-0.002	1469467	1.00	0.8782	

Average of Peak Amounts =

0.8776

2	4.816	4.818	-0.002	3970321	1.00	0.9561	
2	4.864	4.866	-0.002	3400664	1.00	0.9409	
2	5.129	5.132	-0.003	3530927	1.00	0.9697	
2	5.267	5.268	-0.001	9227920	1.00	1.00	
2	5.603	5.605	-0.002	5062725	1.00	0.9751	

Average of Peak Amounts =

0.9684

RPD = 9.84

\$ 15 DCB Decachlorobiphenyl

1	6.931	6.931	0.000	621109	0.0250	0.0256	
2	6.549	6.553	-0.003	1634928	0.0250	0.0252	

RPD = 1.76

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00005

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:30:42

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-148.D

Injection Date: 15-Sep-2016 20:16:07

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 6

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

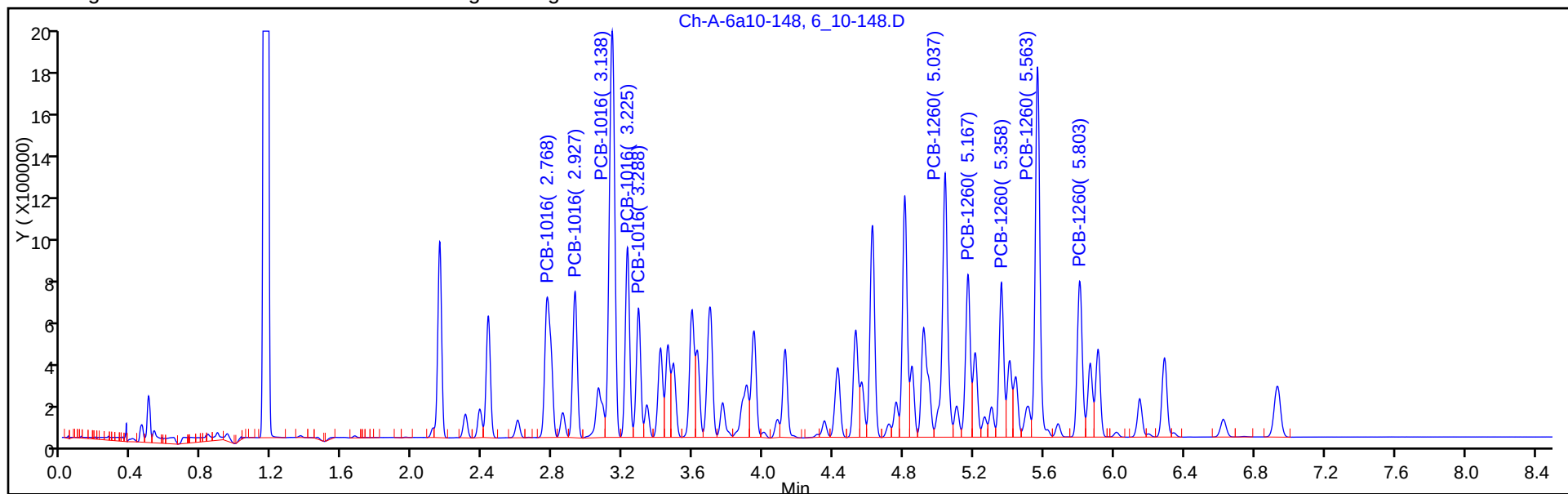
Dil. Factor: 1.0000

ALS Bottle#: 0

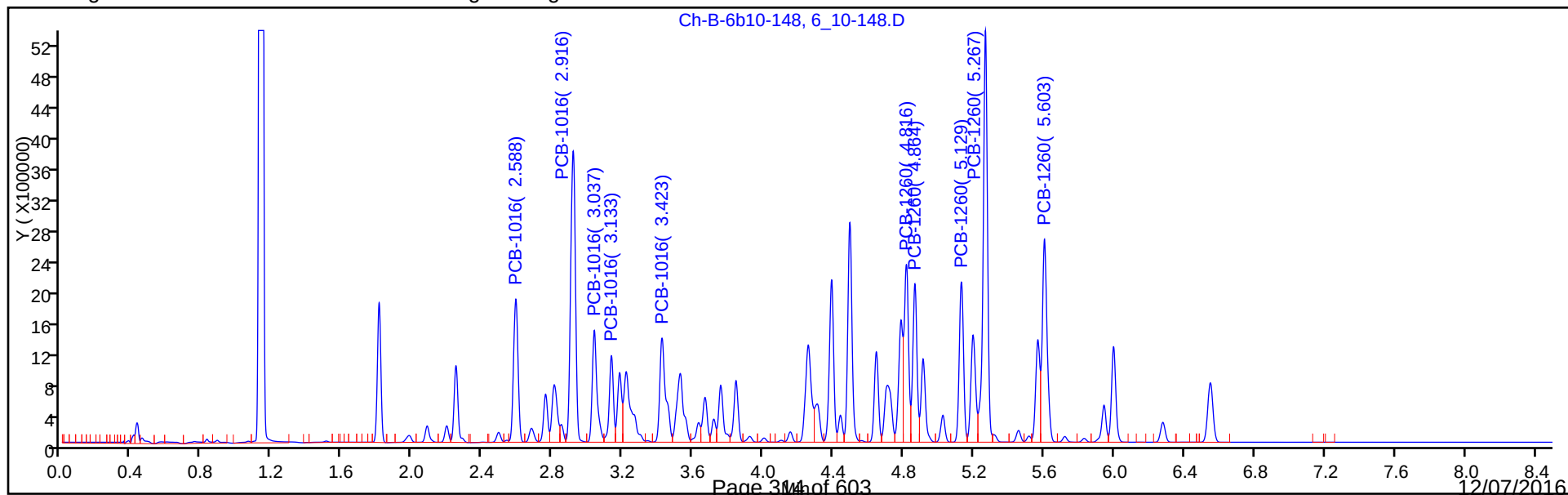
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-149.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 15-Sep-2016 20:32:13 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:30:45 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 16-Sep-2016 12:37:54

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	1.164	1.164	0.000	29194051	0.5000	0.5000	
2	1.138	1.138	0.000	52065101	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.154	2.154	0.000	809172	0.0125	0.0128	
2	1.809	1.809	0.000	1345629	0.0125	0.0118	
RPD = 8.09							

6 PCB-1016

1	2.769	2.769	0.000	1001599	0.5000	0.4557	
1	2.926	2.926	0.000	695144	0.5000	0.5386	
1	3.139	3.139	0.000	2227453	0.5000	0.4401	
1	3.225	3.225	0.000	848719	0.5000	0.5199	
1	3.290	3.290	0.000	587225	0.5000	0.5177	
Average of Peak Amounts =						0.4944	
2	2.588	2.588	0.000	1806845	0.5000	0.4584	
2	2.916	2.916	0.000	3799494	0.5000	0.4654	
2	3.036	3.036	0.000	1458566	0.5000	0.4686	
2	3.134	3.134	0.000	972243	0.5000	0.4709	
2	3.423	3.423	0.000	1695859	0.5000	0.4701	
Average of Peak Amounts =						0.4667	
RPD = 5.77							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-149.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	5.036	5.036	0.000	1404194	0.5000	0.4356	
1	5.166	5.166	0.000	774800	0.5000	0.4345	
1	5.358	5.358	0.000	708371	0.5000	0.4327	
1	5.564	5.564	0.000	1666362	0.5000	0.4467	
1	5.803	5.803	0.000	777999	0.5000	0.4404	

Average of Peak Amounts = 0.4380

2	4.817	4.817	0.000	2036933	0.5000	0.4745	
2	4.864	4.864	0.000	1749446	0.5000	0.4682	
2	5.130	5.130	0.000	1801258	0.5000	0.4785	
2	5.267	5.267	0.000	4667302	0.5000	0.4894	
2	5.603	5.603	0.000	2571833	0.5000	0.4791	

Average of Peak Amounts = 0.4780

RPD = 8.73

\$ 15 DCB Decachlorobiphenyl

1	6.933	6.933	0.000	336364	0.0125	0.0129	
2	6.549	6.549	0.000	863478	0.0125	0.0127	

RPD = 1.56

Reagents:

1660sur/is0.5_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:30:46

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-149.D

Injection Date: 15-Sep-2016 20:32:13

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: ICIS 5

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

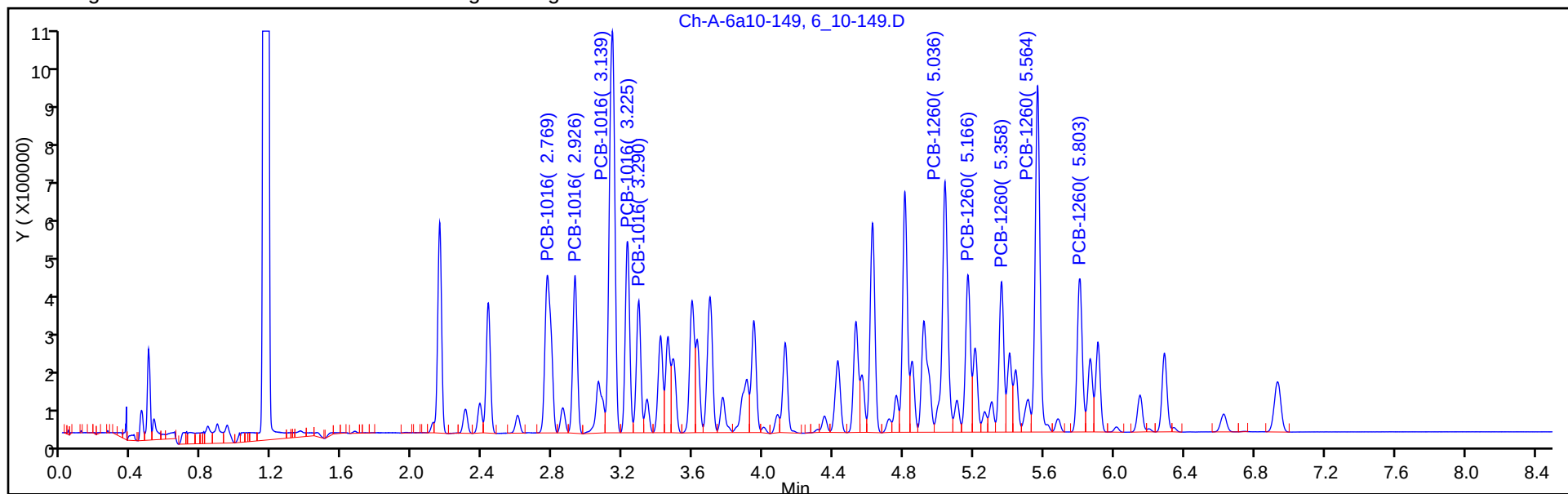
Dil. Factor: 1.0000

ALS Bottle#: 0

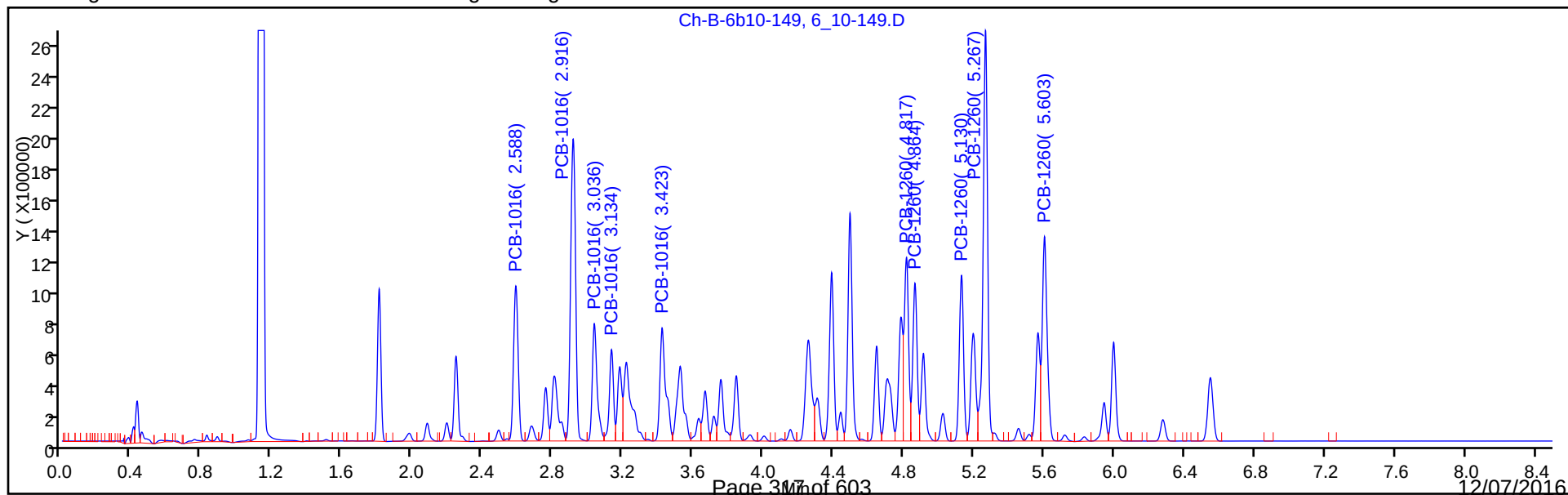
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-150.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-Sep-2016 20:48:10 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:30:49 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 16-Sep-2016 12:37:26

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	1.165	1.164	0.001	29118047	0.5000	0.5000	
2	1.138	1.138	0.000	52265109	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.155	2.154	0.001	359542	0.005000	0.005525	
2	1.810	1.809	0.001	573599	0.005000	0.005012	
RPD = 9.75							

6 PCB-1016

1	2.769	2.769	0.000	464531	0.2000	0.2119	
1	2.927	2.926	0.001	307897	0.2000	0.2255	
1	3.139	3.139	0.000	966461	0.2000	0.1914	
1	3.227	3.225	0.002	372904	0.2000	0.2165	
1	3.289	3.290	-0.001	254193	0.2000	0.2136	

Average of Peak Amounts = 0.2118

2	2.589	2.588	0.001	773433	0.2000	0.1955	
2	2.915	2.916	-0.001	1566683	0.2000	0.1912	
2	3.037	3.036	0.001	607565	0.2000	0.1945	
2	3.135	3.134	0.001	398714	0.2000	0.1924	
2	3.423	3.423	0.001	704359	0.2000	0.1945	

Average of Peak Amounts = 0.1936

RPD = 8.97

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-150.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	5.037	5.036	0.001	611269	0.2000	0.1901	
1	5.168	5.166	0.002	334247	0.2000	0.1879	
1	5.357	5.358	-0.001	311819	0.2000	0.1910	
1	5.565	5.564	0.001	704736	0.2000	0.1894	
1	5.803	5.803	0.000	332520	0.2000	0.1887	

Average of Peak Amounts = 0.1894

2	4.816	4.817	-0.001	827810	0.2000	0.1921	
2	4.866	4.864	0.002	708343	0.2000	0.1889	
2	5.130	5.130	0.000	721638	0.2000	0.1910	
2	5.267	5.267	0.000	1816046	0.2000	0.1897	
2	5.603	5.603	0.000	1043353	0.2000	0.1936	

Average of Peak Amounts = 0.1911

RPD = 0.85

\$ 15 DCB Decachlorobiphenyl

1	6.933	6.933	-0.001	144292	0.005000	0.005310	
2	6.550	6.549	0.001	363365	0.005000	0.005177	

RPD = 2.55

Reagents:

1660sur/is0.2_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:30:50

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-150.D

Injection Date: 15-Sep-2016 20:48:10

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 4

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

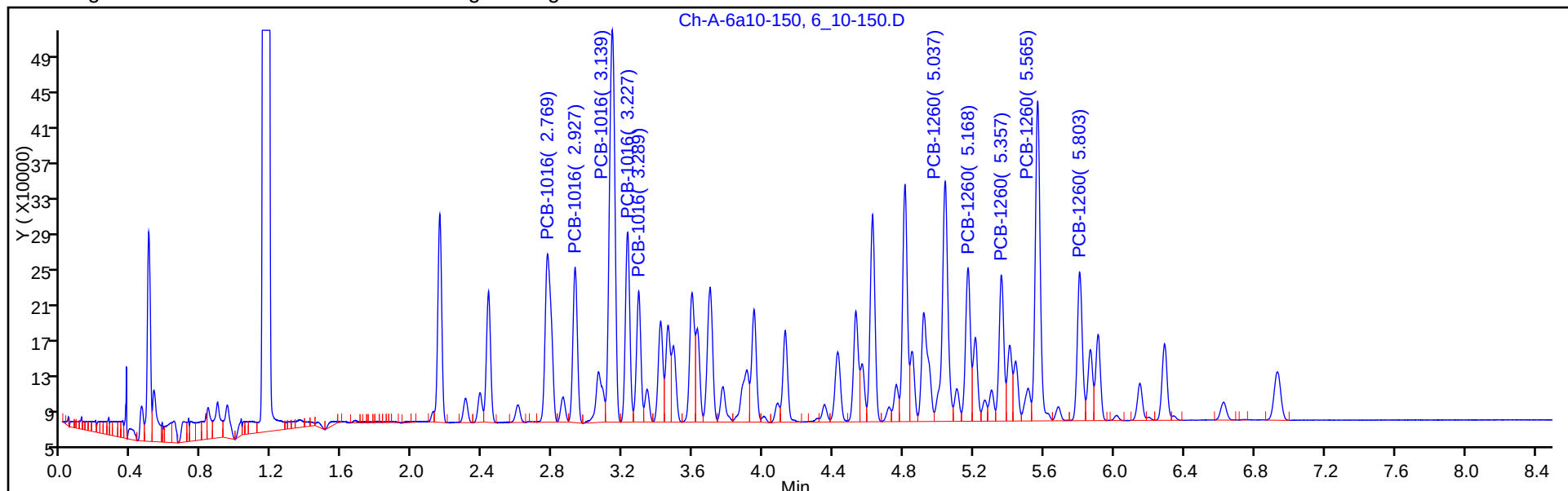
Dil. Factor: 1.0000

ALS Bottle#: 0

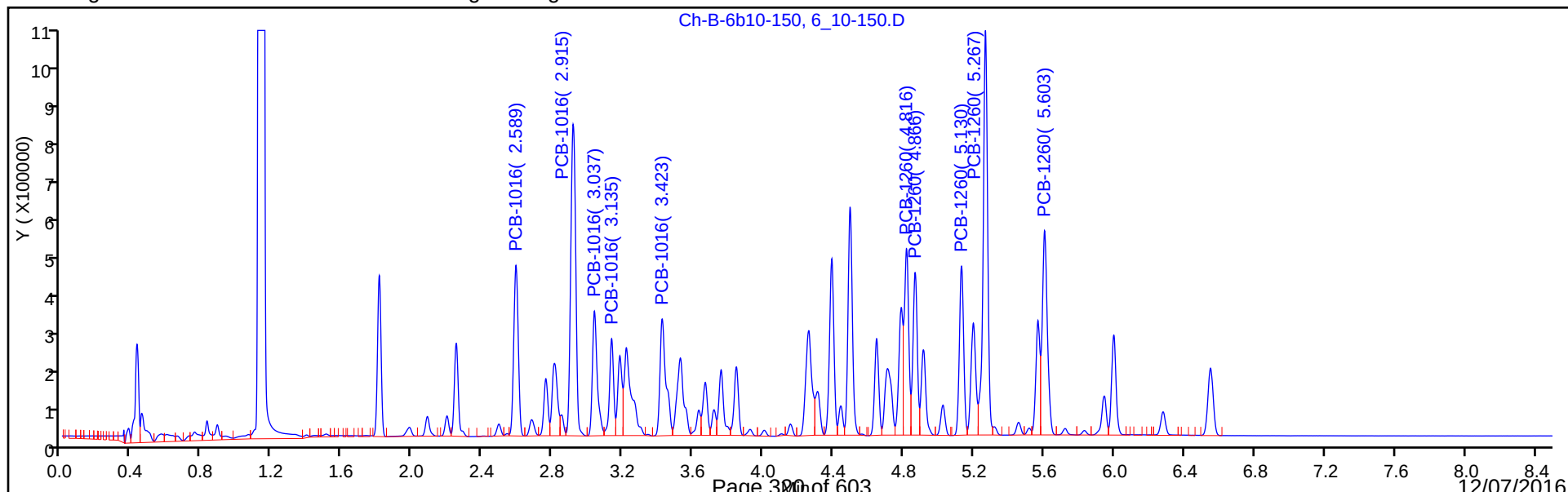
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-151.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-Sep-2016 21:04:14 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:30:55 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 16-Sep-2016 12:36:36

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	1.164	1.164	0.000	29192313	0.5000	0.5000	
2	1.138	1.138	0.000	52050161	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.153	2.154	-0.001	178191	0.002500	0.002571	
2	1.811	1.809	0.002	286936	0.002500	0.002517	
							RPD = 2.11

6 PCB-1016

1	2.767	2.769	-0.002	238211	0.1000	0.1084	
1	2.926	2.926	0.000	170003	0.1000	0.1131	M
1	3.137	3.139	-0.002	519791	0.1000	0.1027	M
1	3.223	3.225	-0.002	202846	0.1000	0.1072	M
1	3.289	3.290	-0.001	138028	0.1000	0.1067	M
Average of Peak Amounts =						0.1076	
2	2.589	2.588	0.001	407934	0.1000	0.1035	M
2	2.917	2.916	0.001	802216	0.1000	0.0983	M
2	3.036	3.036	0.000	313690	0.1000	0.1008	M
2	3.135	3.134	0.001	207616	0.1000	0.1006	M
2	3.424	3.423	0.002	361165	0.1000	0.1001	
Average of Peak Amounts =						0.1007	
							RPD = 6.67

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-151.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

M

1	5.034	5.036	-0.002	324399	0.1000	0.1006	
1	5.167	5.166	0.001	180660	0.1000	0.1013	
1	5.358	5.358	0.000	164800	0.1000	0.1007	
1	5.563	5.564	-0.002	367524	0.1000	0.0985	
1	5.804	5.803	0.001	176262	0.1000	0.0998	

Average of Peak Amounts =

0.1002

2	4.818	4.817	0.001	418121	0.1000	0.0974	M
2	4.866	4.864	0.002	366804	0.1000	0.0982	M
2	5.131	5.130	0.001	368186	0.1000	0.0978	M
2	5.268	5.267	0.001	914704	0.1000	0.0959	M
2	5.605	5.603	0.002	522693	0.1000	0.0974	

Average of Peak Amounts =

0.0974

RPD = 2.86

\$ 15 DCB Decachlorobiphenyl

1	6.930	6.933	-0.003	79156	0.002500	0.002707	
2	6.551	6.549	0.002	194350	0.002500	0.002654	

RPD = 2.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00005

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:30:56

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-151.D

Injection Date: 15-Sep-2016 21:04:14

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 3

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

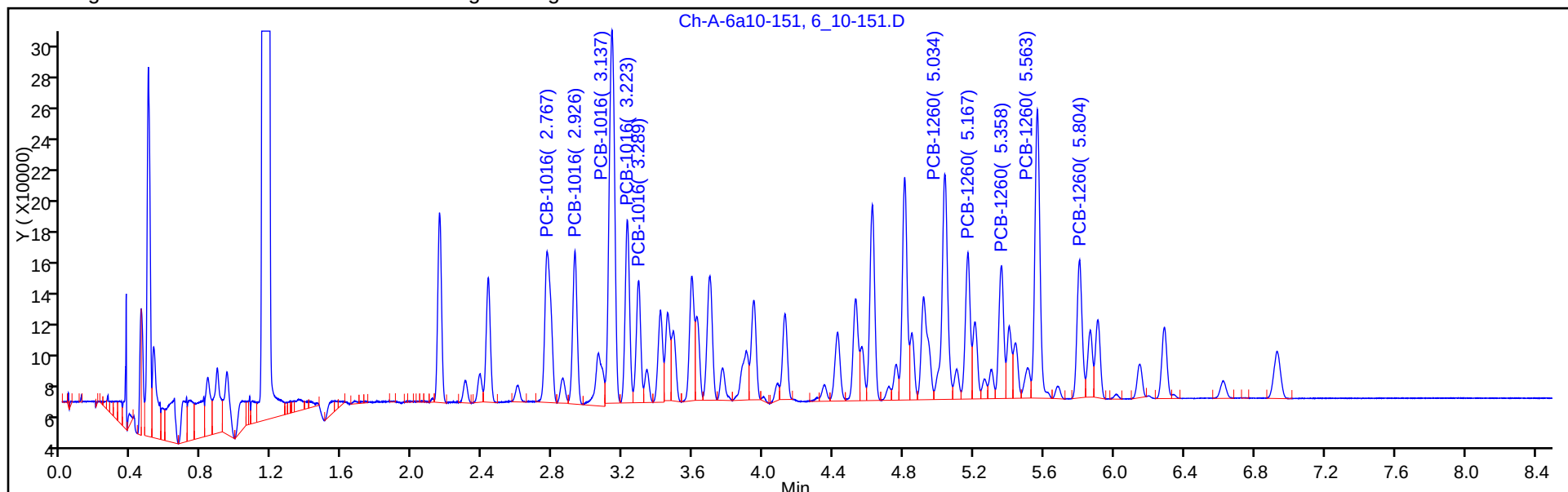
Dil. Factor: 1.0000

ALS Bottle#: 0

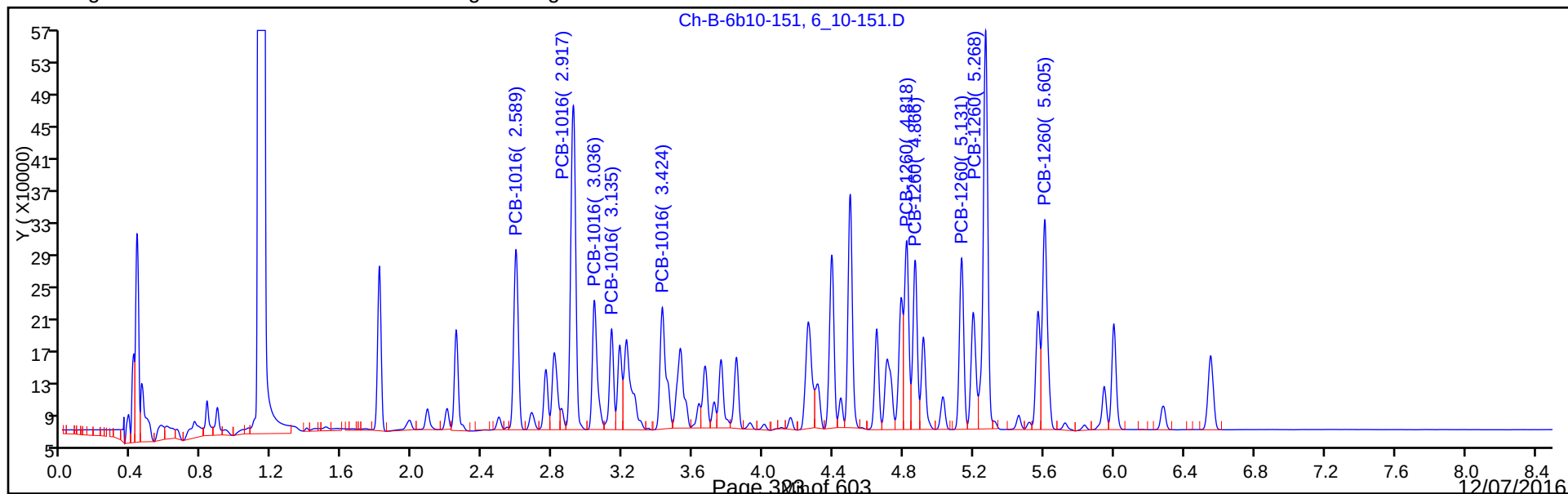
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-151.D

Injection Date: 15-Sep-2016 21:04:14

Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

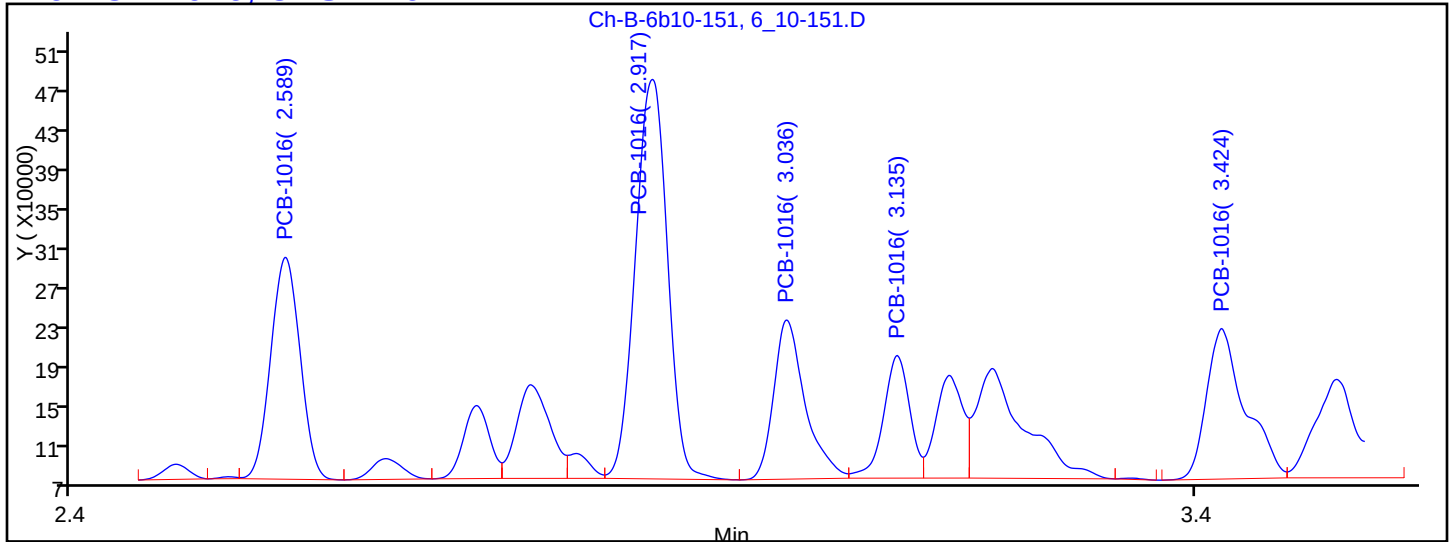
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

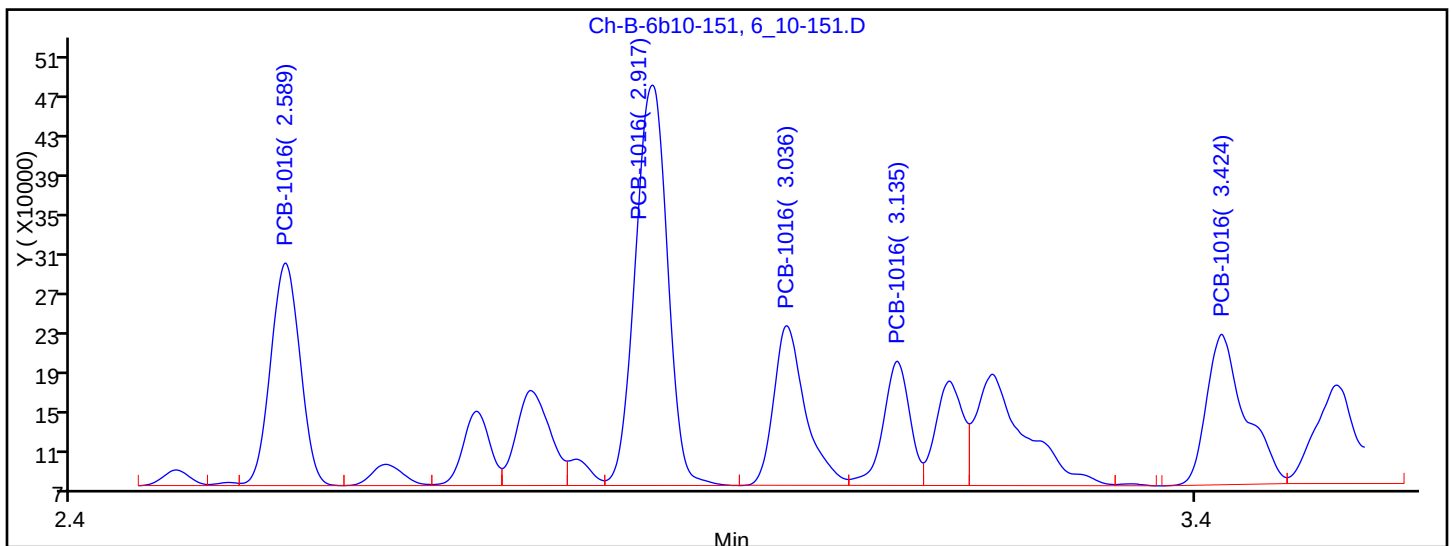
Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.589	Response = 404504
2.917	Response = 797561
3.036	Response = 310420
3.135	Response = 201304
3.424	Response = 361165



Manual Integration Results

2.589	Response = 407934	M
2.917	Response = 802216	M
3.036	Response = 313690	M
3.135	Response = 207616	M
3.424	Response = 361165	

Reviewer: sobolk, 16-Sep-2016 18:53:45

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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12/07/2016

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-151.D

Injection Date: 15-Sep-2016 21:04:14

Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

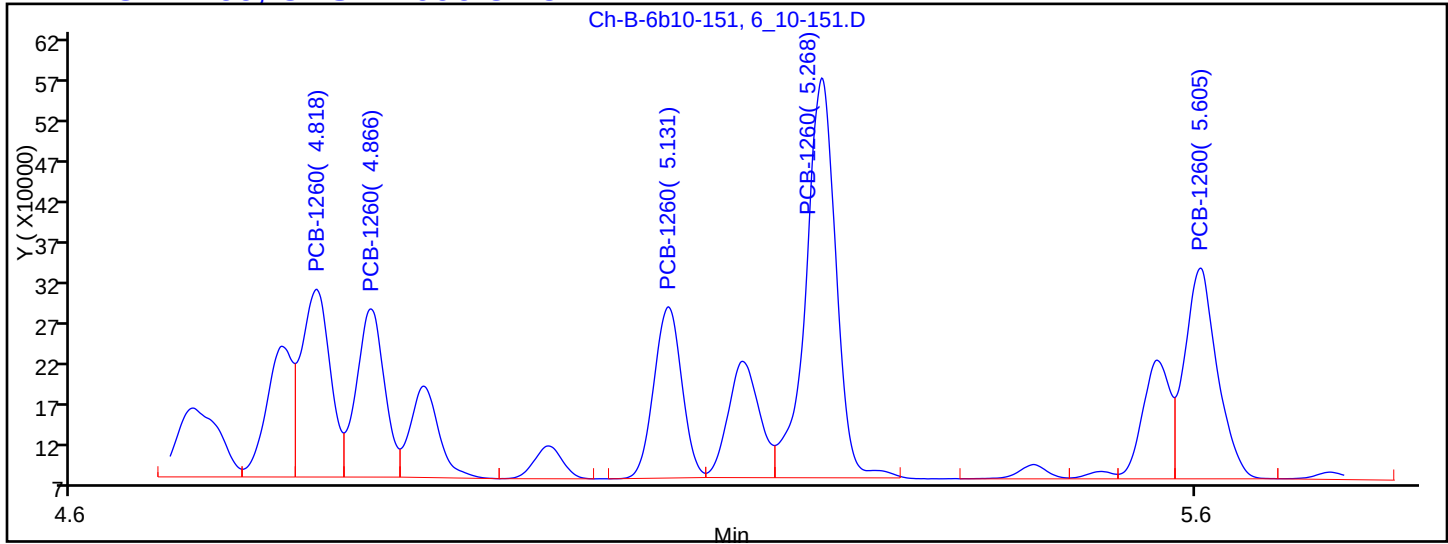
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

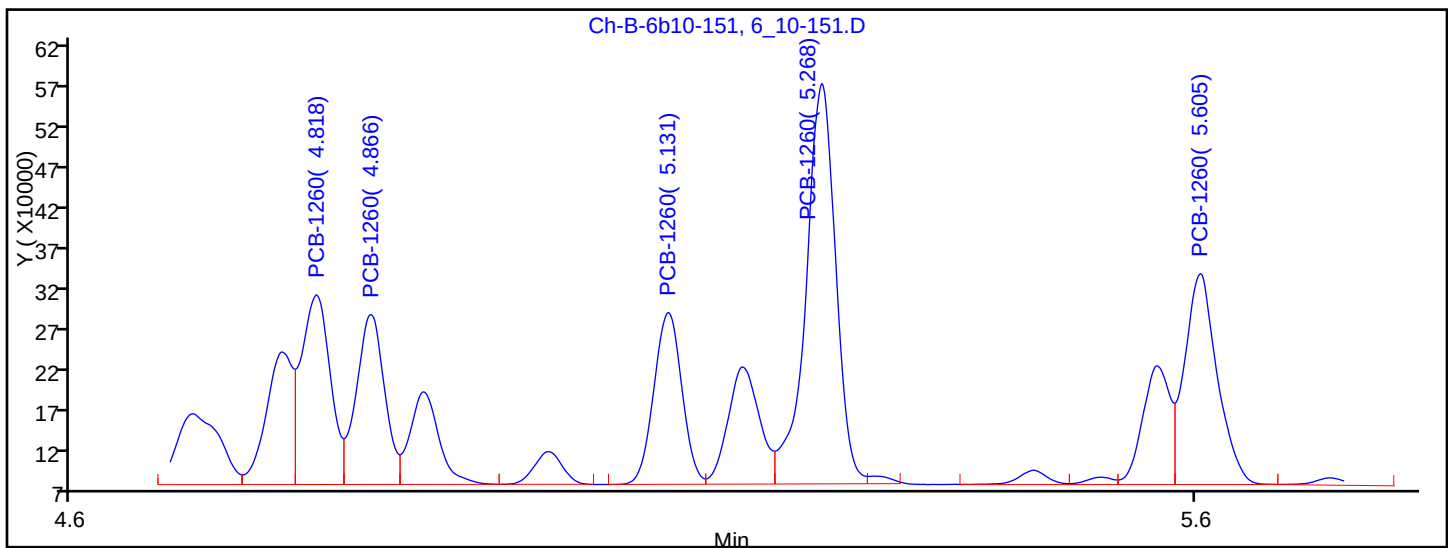
Column:

Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5

Processing Integration Results

4.818	Response = 412435
4.866	Response = 360612
5.131	Response = 365313
5.268	Response = 924799
5.605	Response = 522693



Manual Integration Results

4.818	Response = 418121	M
4.866	Response = 366804	M
5.131	Response = 368186	M
5.268	Response = 914704	M
5.605	Response = 522693	

Reviewer: sobolk, 16-Sep-2016 18:53:45

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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12/07/2016

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-152.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Sep-2016 21:20:07 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:31:02 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 16-Sep-2016 12:35:59

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	1.164	1.164	0.000	28106711	0.5000	0.5000	
2	1.138	1.138	0.000	50200072	0.5000	0.5000	
						RPD =	0.00

\$ 2 Tetrachloro-m-xylene

1	2.154	2.154	0.000	94550	0.001250	0.001275	M
2	1.810	1.809	0.001	143871	0.001250	0.001309	M
						RPD =	2.63

6 PCB-1016

1	2.767	2.769	-0.002	120123	0.0500	0.0568	M
1	2.926	2.926	0.000	91009	0.0500	0.0520	M
1	3.138	3.139	-0.001	277124	0.0500	0.0569	M
1	3.224	3.225	-0.001	110809	0.0500	0.0511	M
1	3.288	3.290	-0.002	75393	0.0500	0.0521	M
Average of Peak Amounts =						0.0538	
2	2.589	2.588	0.001	216225	0.0500	0.0569	M
2	2.917	2.916	0.001	416755	0.0500	0.0529	M
2	3.038	3.036	0.002	165415	0.0500	0.0551	M
2	3.135	3.134	0.001	109033	0.0500	0.0548	M
2	3.423	3.423	0.001	188753	0.0500	0.0543	
Average of Peak Amounts =						0.0548	
						RPD =	1.93

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-152.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	5.033	5.036	-0.003	177793	0.0500	0.0573	
1	5.165	5.166	-0.001	101566	0.0500	0.0592	
1	5.355	5.358	-0.003	92079	0.0500	0.0584	
1	5.563	5.564	-0.002	199370	0.0500	0.0555	
1	5.803	5.803	-0.001	99110	0.0500	0.0583	

Average of Peak Amounts = 0.0577

2	4.817	4.817	0.000	214183	0.0500	0.0517	
2	4.866	4.864	0.002	191440	0.0500	0.0531	
2	5.131	5.130	0.001	189695	0.0500	0.0523	
2	5.268	5.267	0.001	462438	0.0500	0.0503	
2	5.603	5.603	-0.001	265757	0.0500	0.0514	

Average of Peak Amounts = 0.0518

RPD = 10.91

\$ 15 DCB Decachlorobiphenyl

1	6.931	6.933	-0.002	43121	0.001250	0.001341	
2	6.551	6.549	0.002	103117	0.001250	0.001337	

RPD = 0.34

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:31:04

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-152.D

Injection Date: 15-Sep-2016 21:20:07

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 2

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

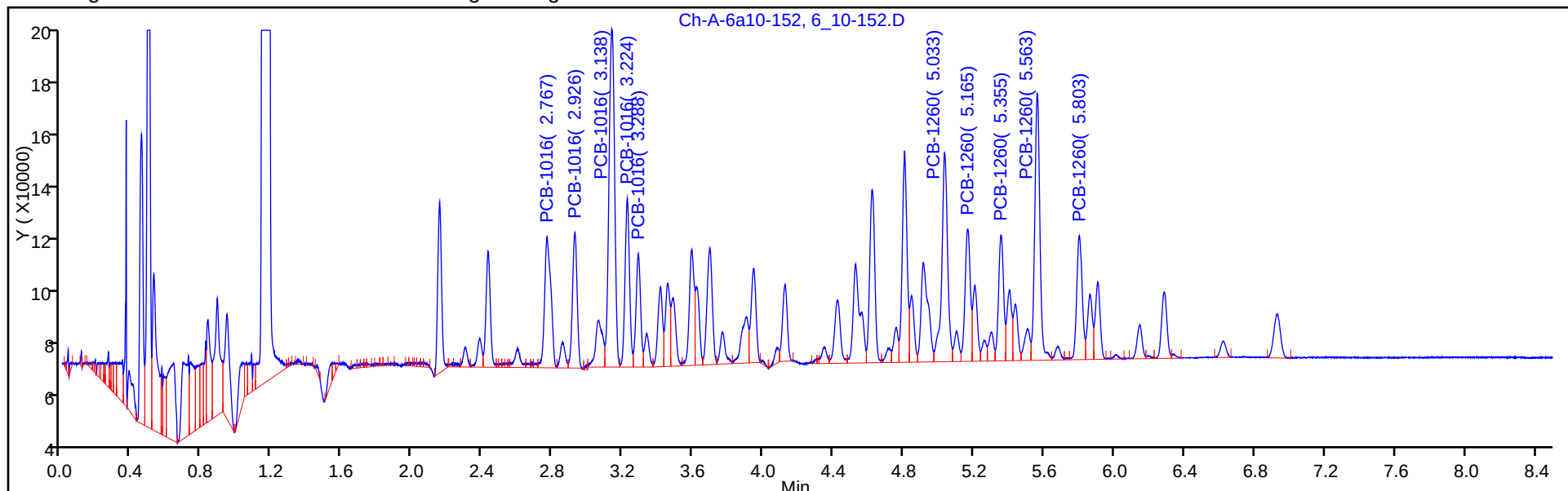
Dil. Factor: 1.0000

ALS Bottle#: 0

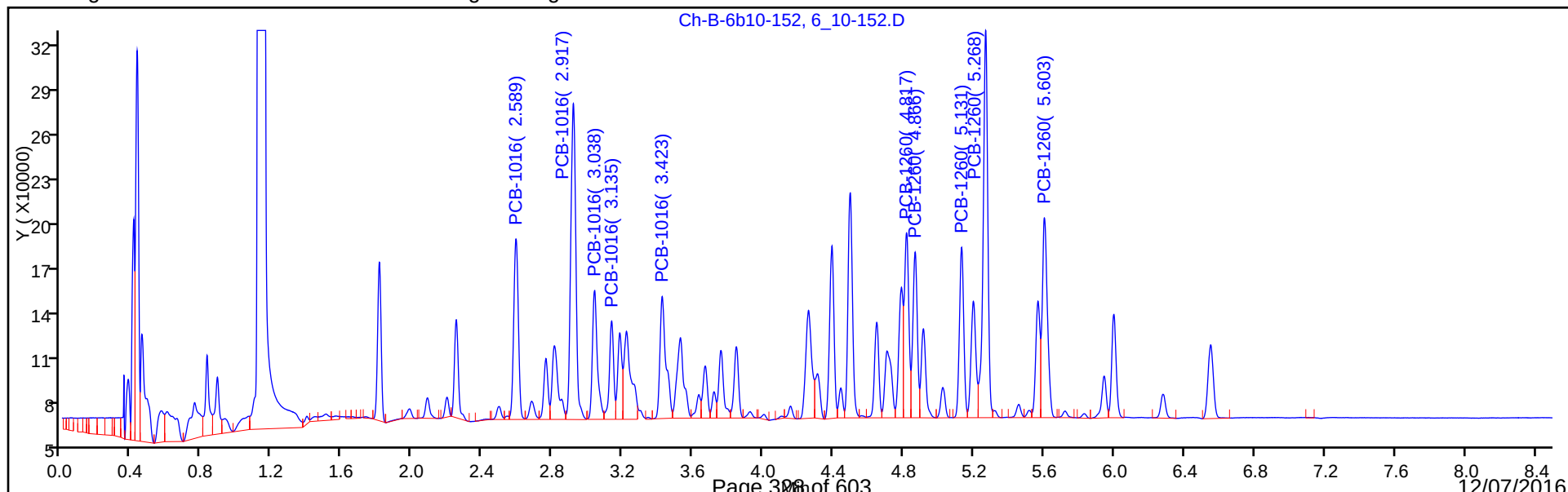
Method: 6890-6 PCB

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

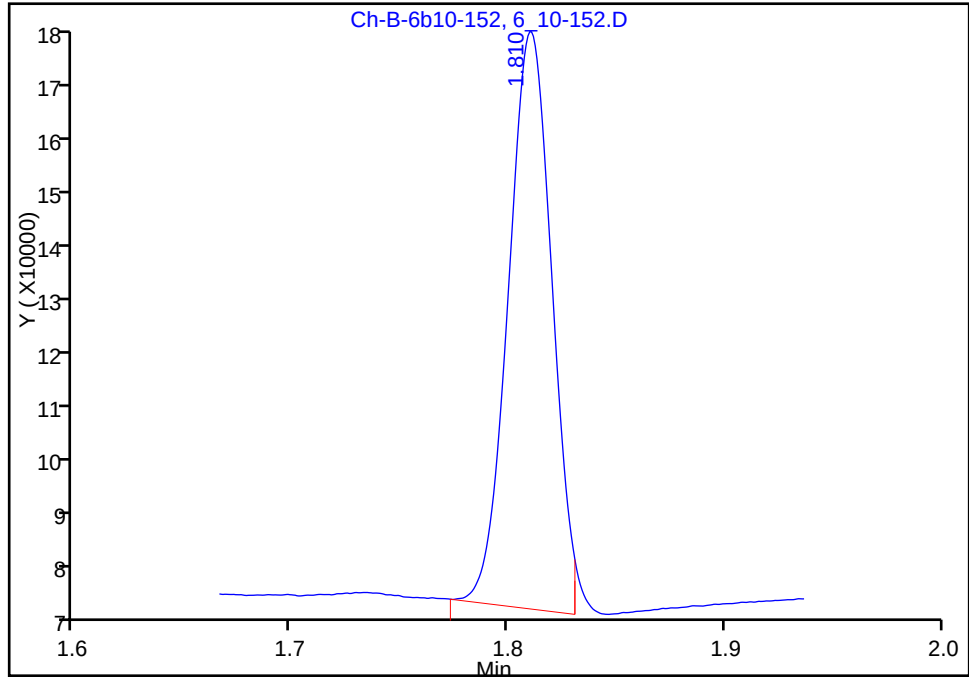
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-152.D		
Injection Date:	15-Sep-2016 21:20:07	Instrument ID:	HP6890-6
Lims ID:	IC 2		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector:	Ch-B-7b136
		Worklist Smp#:	8

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

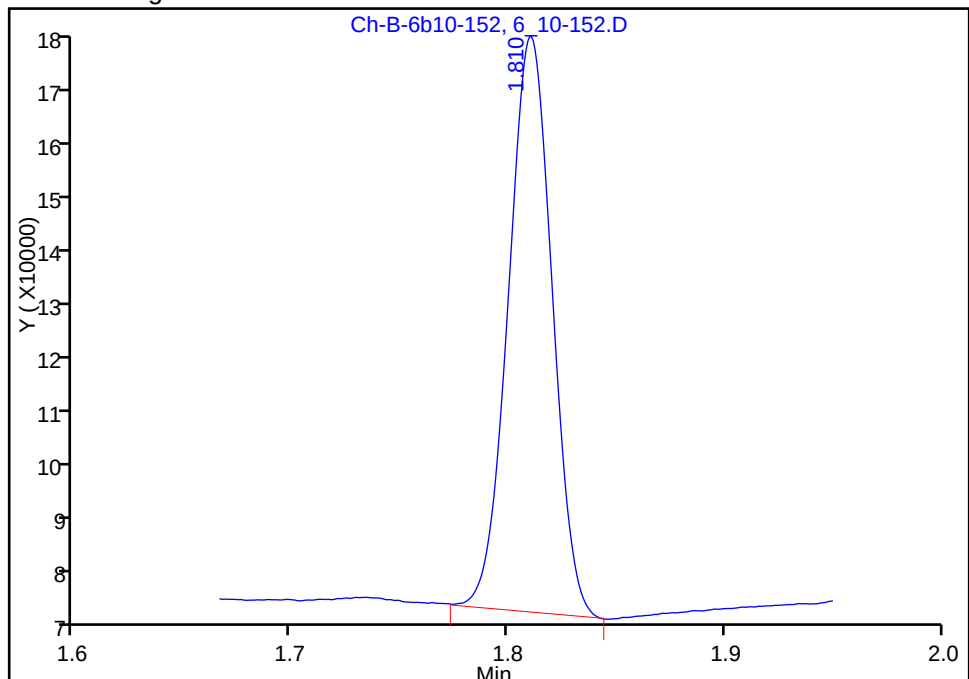
RT: 1.81
Area: 142776
Amount: 0.001395
Amount Units: ng/uL

Processing Integration Results



RT: 1.81
Area: 143871
Amount: 0.001309
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 16-Sep-2016 19:00:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-152.D

Injection Date: 15-Sep-2016 21:20:07

Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

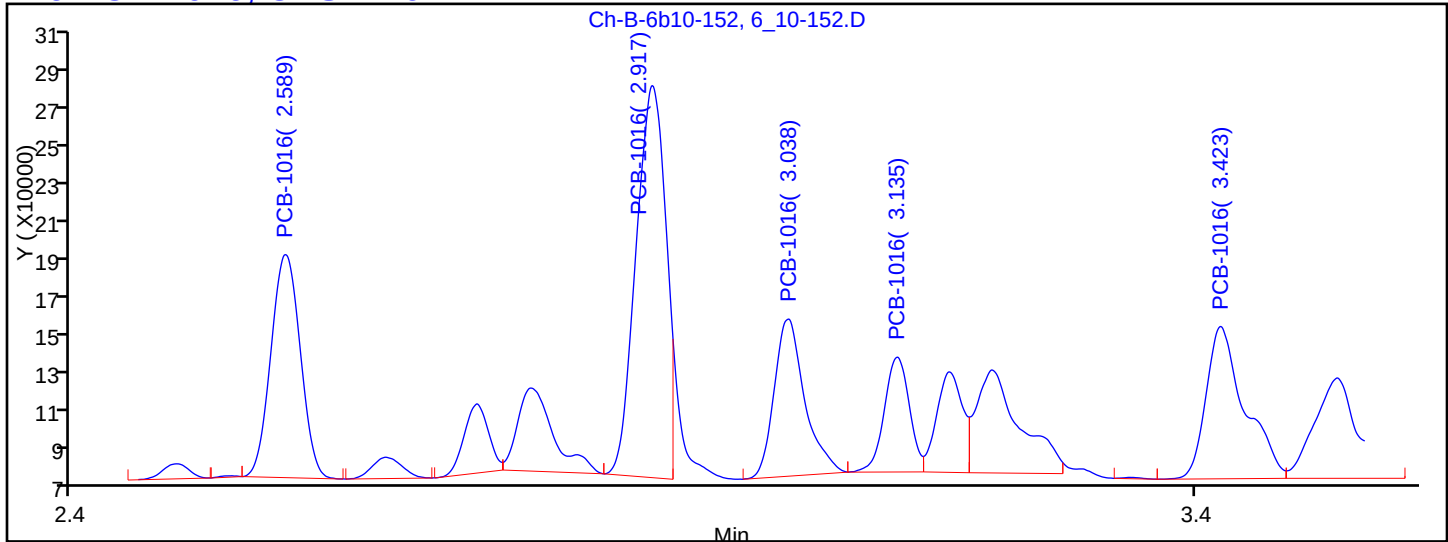
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

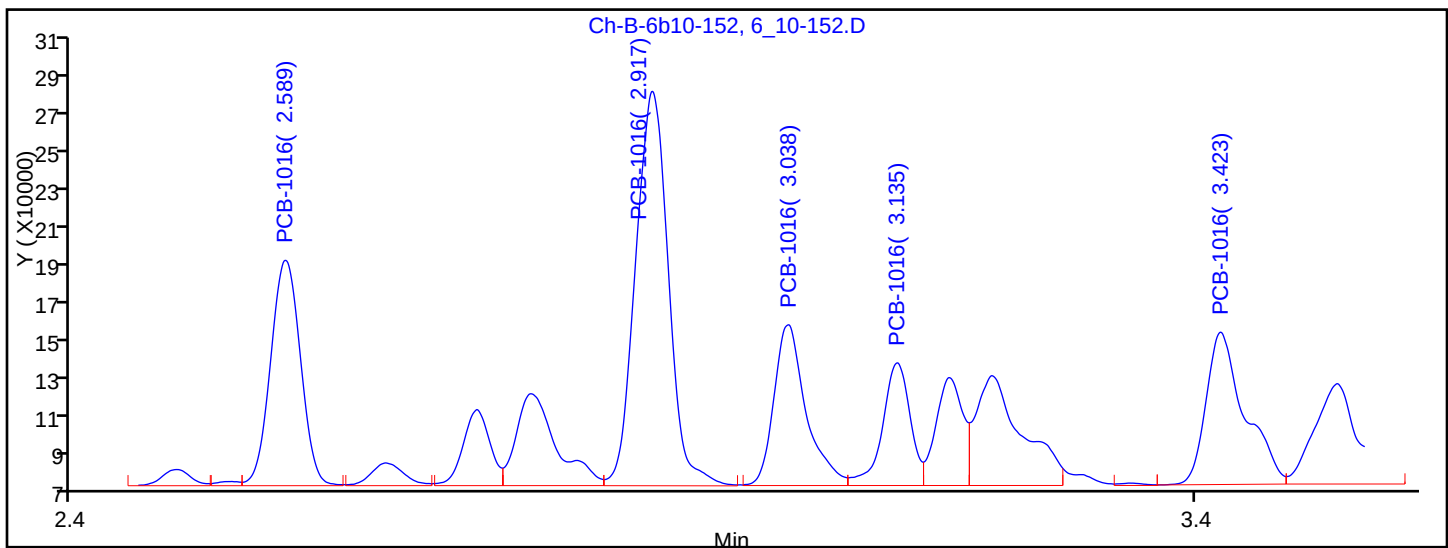
Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.589	Response = 210166
2.917	Response = 370536
3.038	Response = 153498
3.135	Response = 92738
3.423	Response = 188753



Manual Integration Results

2.589	Response = 216225	M
2.917	Response = 416755	M
3.038	Response = 165415	M
3.135	Response = 109033	M
3.423	Response = 188753	

Reviewer: sobolk, 16-Sep-2016 18:55:12

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 330 of 603

12/07/2016

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-153.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Sep-2016 21:36:09 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:31:10 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 16-Sep-2016 12:34:31

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	1.165	1.165	0.000	27795172	0.5000	0.5000	
2	1.140	1.140	0.000	49634054	0.5000	0.5000	

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.156	2.156	0.000	43979	0.000500	0.000432	
2	1.812	1.812	0.000	61381	0.000500	0.000565	

RPD = 26.70

6 PCB-1016

1	2.767	2.767	0.000	49908	0.0200	0.0238	M
1	2.925	2.925	0.000	44133	0.0200	0.0129	M
1	3.138	3.138	0.000	124867	0.0200	0.0259	M
1	3.225	3.225	0.000	57087	0.0200	0.0159	M
1	3.289	3.289	0.000	36955	0.0200	0.0159	M

Average of Peak Amounts = 0.0189

2	2.591	2.591	0.000	91874	0.0200	0.0244	
2	2.917	2.917	0.000	187067	0.0200	0.0240	
2	3.038	3.038	0.000	68526	0.0200	0.0231	
2	3.136	3.136	0.000	44774	0.0200	0.0227	
2	3.425	3.425	0.000	79667	0.0200	0.0232	

Average of Peak Amounts = 0.0235

RPD = 21.71

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-153.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

							M
1	5.034	5.034	0.000	79385	0.0200	0.0259	M
1	5.167	5.167	0.000	44283	0.0200	0.0261	M
1	5.357	5.357	0.000	40751	0.0200	0.0261	M
1	5.561	5.561	0.000	86012	0.0200	0.0242	M
1	5.803	5.803	0.000	42706	0.0200	0.0254	

Average of Peak Amounts =

0.0255

2	4.818	4.818	0.000	93683	0.0200	0.0229	
2	4.865	4.865	0.000	84097	0.0200	0.0236	
2	5.132	5.132	0.000	79813	0.0200	0.0222	
2	5.268	5.268	0.000	192632	0.0200	0.0212	M
2	5.604	5.604	0.000	111033	0.0200	0.0217	

Average of Peak Amounts =

0.0223

RPD = 13.43

\$ 15 DCB Decachlorobiphenyl

1	6.931	6.931	0.000	19528	0.000500	0.000377	
2	6.549	6.549	0.000	43365	0.000500	0.000412	

RPD = 8.83

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:31:11

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-153.D

Injection Date: 15-Sep-2016 21:36:09

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 1

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

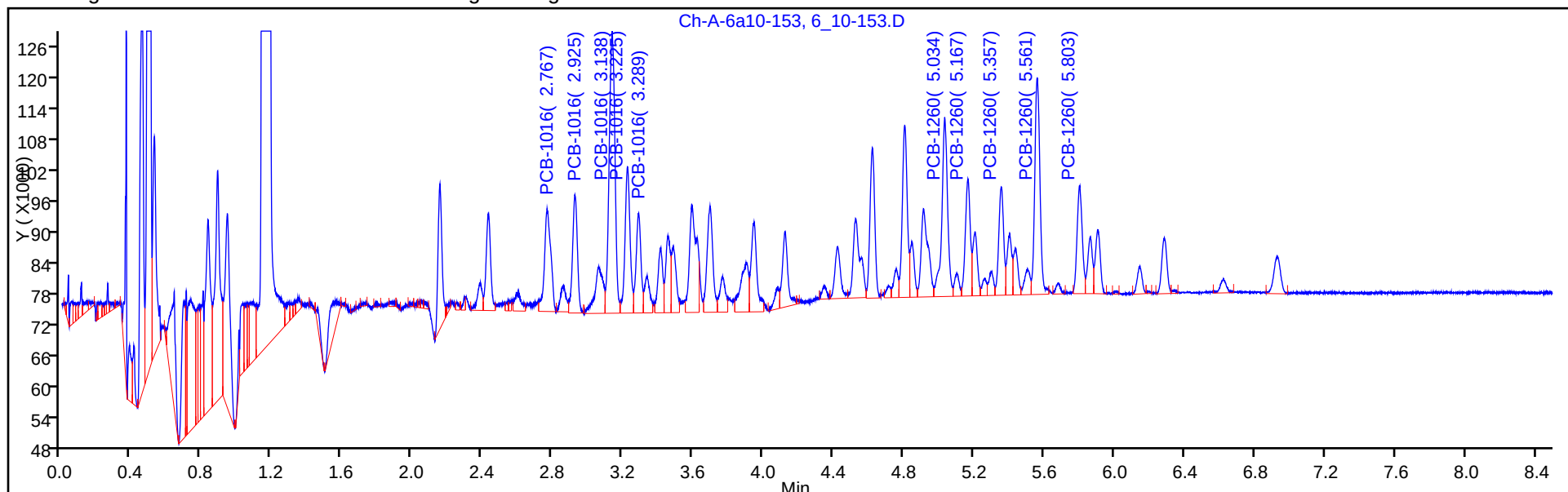
Dil. Factor: 1.0000

ALS Bottle#: 0

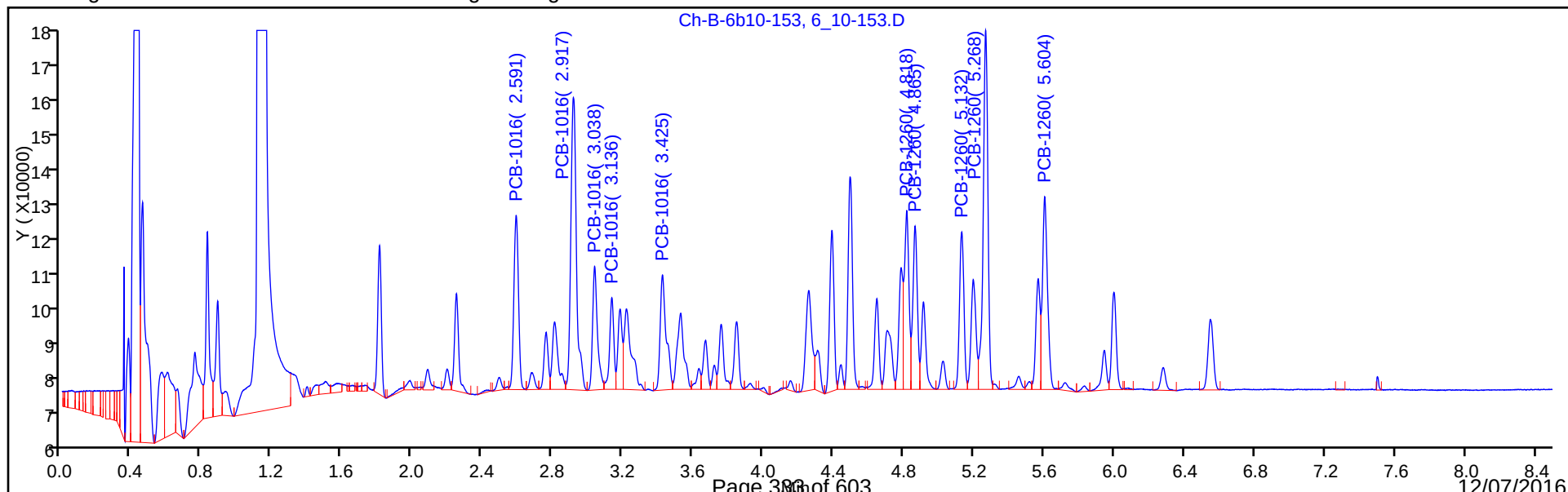
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-153.D

Injection Date: 15-Sep-2016 21:36:09

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 9

Injection Vol: 1.0 ul

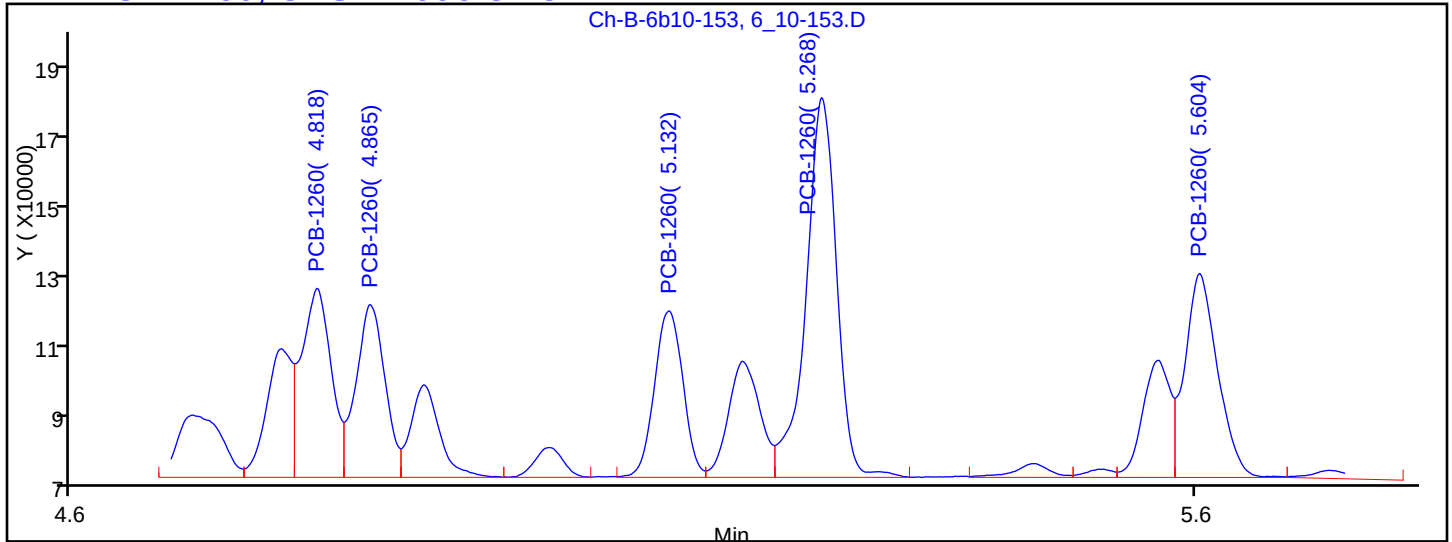
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

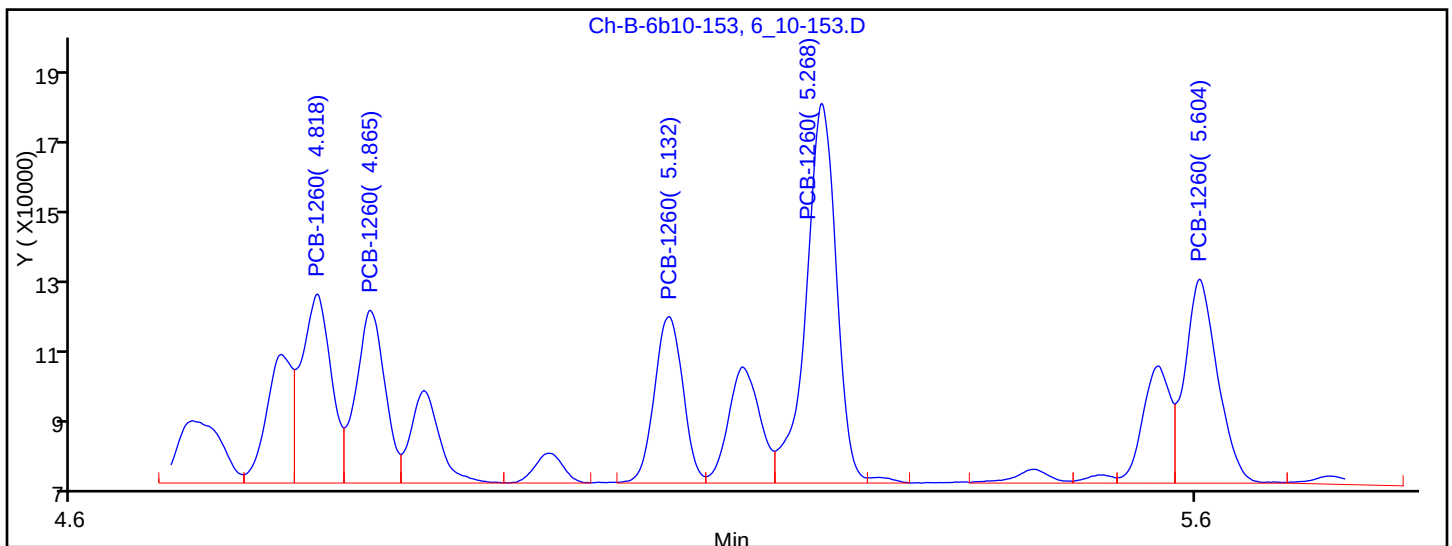
Column:

Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5

Processing Integration Results

4.818	Response = 93683
4.865	Response = 84097
5.132	Response = 79813
5.268	Response = 194878
5.604	Response = 111033



Manual Integration Results

4.818	Response = 93683
4.865	Response = 84097
5.132	Response = 79813
5.268	Response = 192632
5.604	Response = 111033

M

Reviewer: sobolk, 16-Sep-2016 18:56:39

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak
Page 334 of 603

12/07/2016

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 23:12 Calibration End Date: 09/15/2016 23:44 Calibration ID: 28353

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/17	6_10-161.D
Level 2	IC 480-320599/16	6_10-160.D
Level 3	IC 480-320599/15	6_10-159.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	0.0254	0.0069	0.0051			Lin1	0.0004	0.0052							0.9920		0.9900
PCB-1221 Peak 2	0.0298	0.0116	0.0101			Lin1	0.0004	0.0100							0.9990		0.9900
PCB-1221 Peak 3	0.0239	0.0077	0.0062			Lin1	0.0004	0.0062							0.9960		0.9900
PCB-1221 Peak 4	0.0502	0.0264	0.0212			Lin1	0.0006	0.0217							0.9930		0.9900
PCB-1254 Peak 1	0.0642	0.0468	0.0439			Lin1	0.0004	0.0441							1.0000		0.9900
PCB-1254 Peak 2	0.0717	0.0520	0.0502			Lin1	0.0004	0.0502							1.0000		0.9900
PCB-1254 Peak 3	0.0676	0.0507	0.0492			Ave		0.0558				18.3		20.0			
PCB-1254 Peak 4	0.0402	0.0301	0.0286			Ave		0.0330				19.2		20.0			
PCB-1254 Peak 5	0.0545	0.0412	0.0394			Ave		0.0450				18.4		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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 23:12 Calibration End Date: 09/15/2016 23:44 Calibration ID: 28353

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/17	6_10-161.D
Level 2	IC 480-320599/16	6_10-160.D
Level 3	IC 480-320599/15	6_10-159.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	31232	197632	605745			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	36625	330614	1186770			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	29349	219058	729843			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	61643	755738	2495566			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	78849	1337352	5170016			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	88169	1485770	5908924			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Ave	83092	1448618	5790462			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Ave	49420	861898	3360905			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Ave	67031	1177510	4636867			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\HP6890-06\20160915-56412.b\6_10-159.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-Sep-2016 23:12:04 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub4
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:32:02 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:11:27

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene M
 1 1.165 1.164 0.001 29424075 0.5000 0.5000 M
 2 1.139 1.139 0.000 50788791 0.5000 0.5000
 RPD = 0.00
 3 PCB-1221 M
 1 1.671 1.671 0.000 605745 2.00 1.91 M
 1 2.302 2.303 0.000 1186770 2.00 1.97 M
 1 2.383 2.383 -0.001 729843 2.00 1.94 M
 1 2.433 2.432 0.000 2495566 2.00 1.92 M
 Average of Peak Amounts = 1.94
 2 1.509 1.509 0.000 1072533 2.00 1.92
 2 2.085 2.085 0.000 1939856 2.00 1.72
 2 2.198 2.197 0.001 1172237 2.00 1.96
 2 2.250 2.248 0.002 3910725 2.00 1.73
 Average of Peak Amounts = 1.83
 RPD = 5.57

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-159.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

8 PCB-1254

M

1	4.125	4.123	0.003	5170016	2.00	1.98	M
1	4.428	4.428	0.000	5908924	2.00	1.99	M
1	4.630	4.630	0.000	5790462	2.00	1.76	M
1	4.851	4.853	-0.001	3360905	2.00	1.73	M
1	5.037	5.038	-0.001	4636867	2.00	1.75	M

Average of Peak Amounts =

1.84

2	3.759	3.759	0.000	6045932	2.00	1.95	
2	3.848	3.847	0.001	8694369	2.00	1.98	
2	4.244	4.243	0.001	13649957	2.00	2.07	
2	4.375	4.377	-0.002	13211409	2.00	2.14	
2	4.818	4.818	0.000	11204447	2.00	1.99	

Average of Peak Amounts =

2.03

RPD = 9.46

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@2.0_00005

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:32:02

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-159.D

Injection Date: 15-Sep-2016 23:12:04

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 3

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

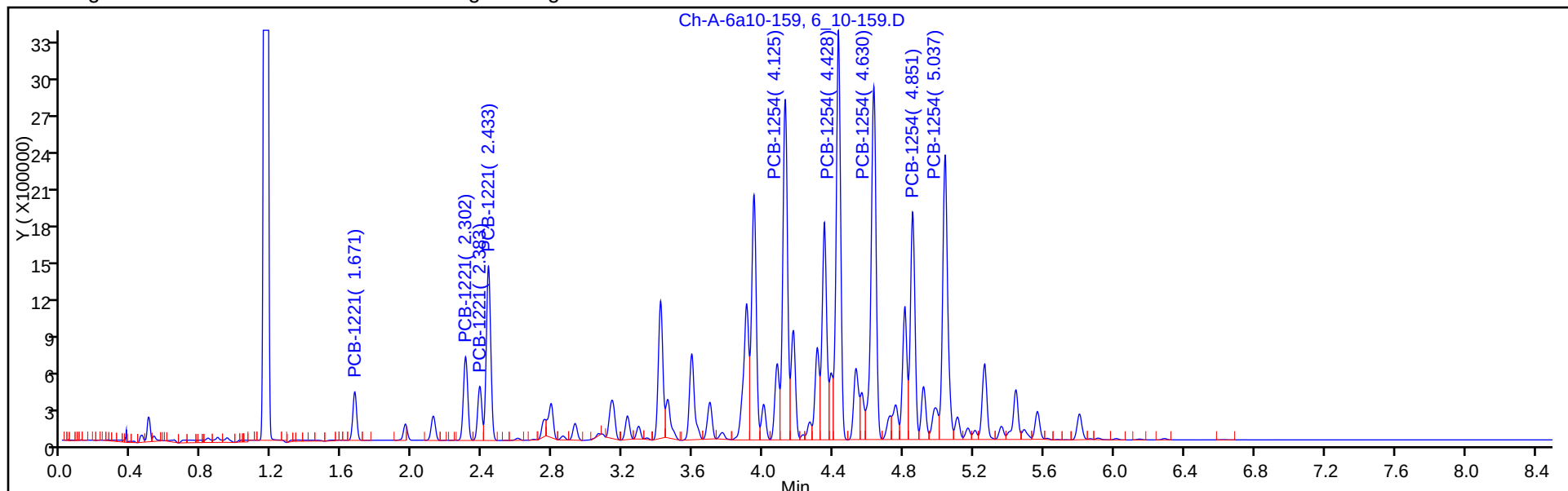
Dil. Factor: 1.0000

ALS Bottle#: 0

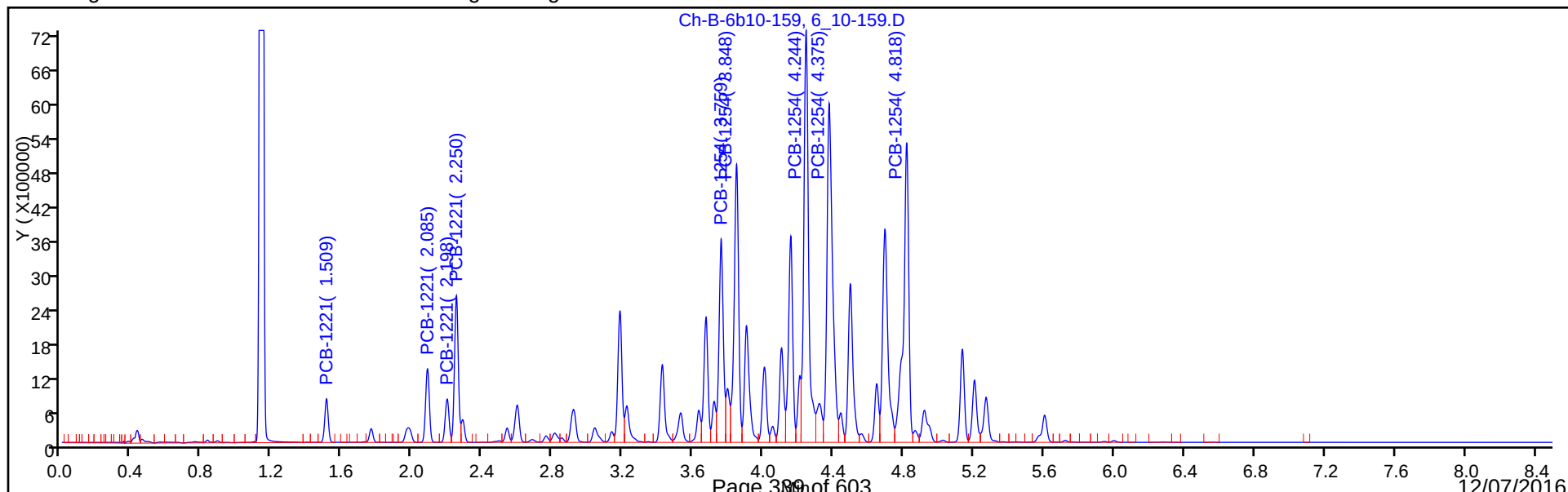
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-159.D

Injection Date: 15-Sep-2016 23:12:04

Instrument ID: HP6890-6

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: 6890-6 PCB

Limit Group:

GC - 8082A PCB IS ICAL

Column:

Detector

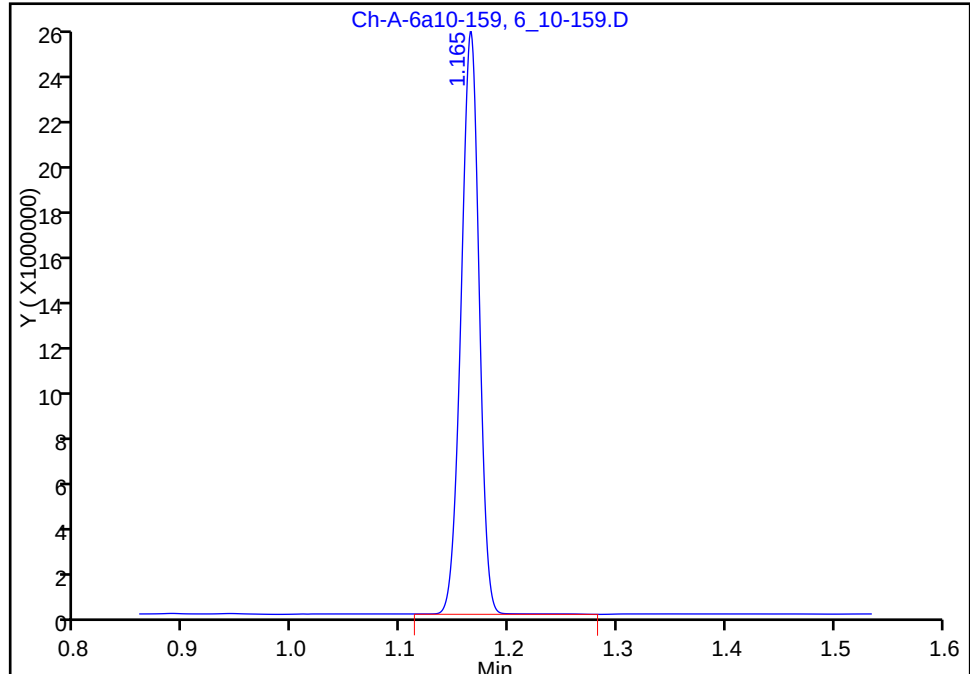
Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

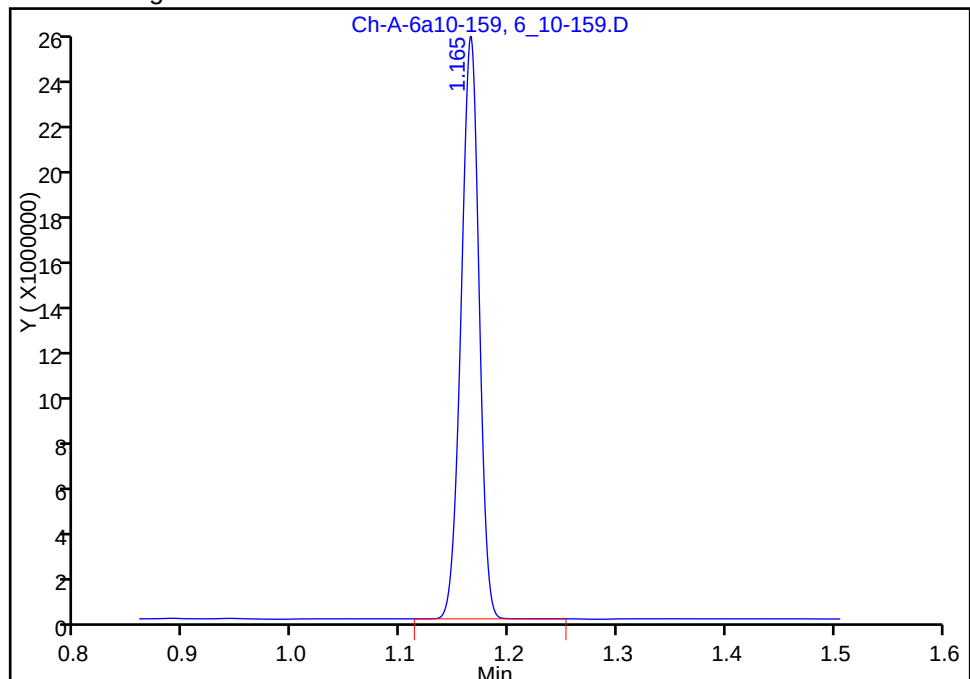
RT: 1.17
Area: 29562090
Amount: 0.500000
Amount Units: ng/uL

Processing Integration Results



RT: 1.17
Area: 29424075
Amount: 0.500000
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 16-Sep-2016 21:18:47

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-159.D

Injection Date: 15-Sep-2016 23:12:04

Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 15

Injection Vol: 1.0 ul

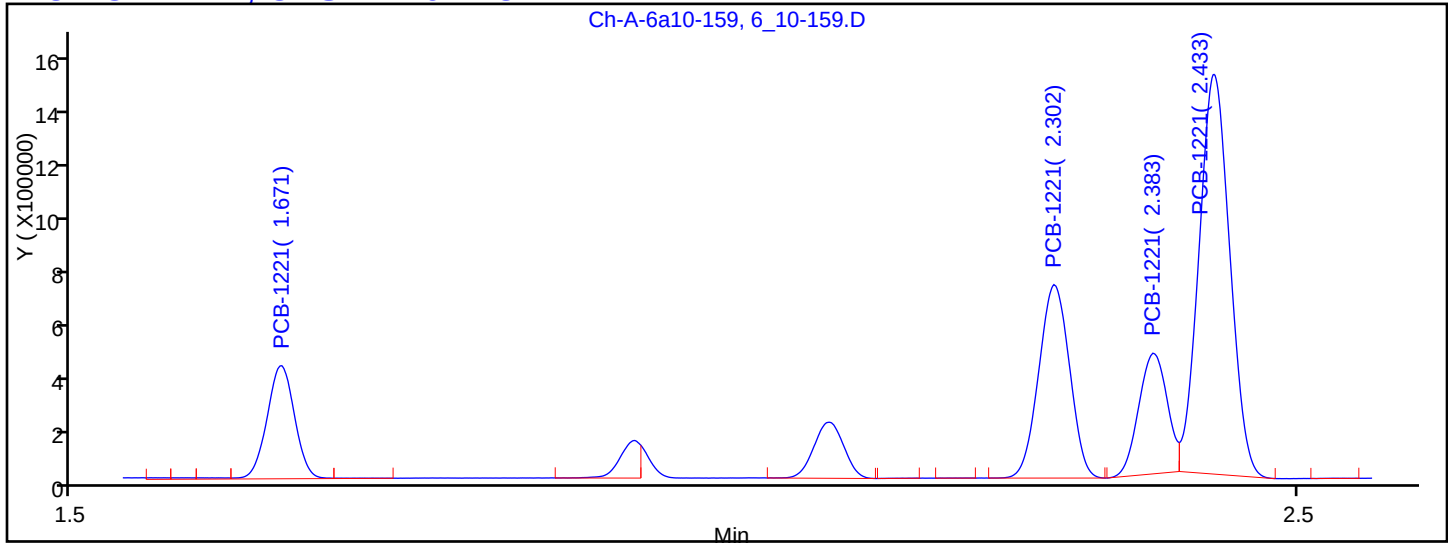
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

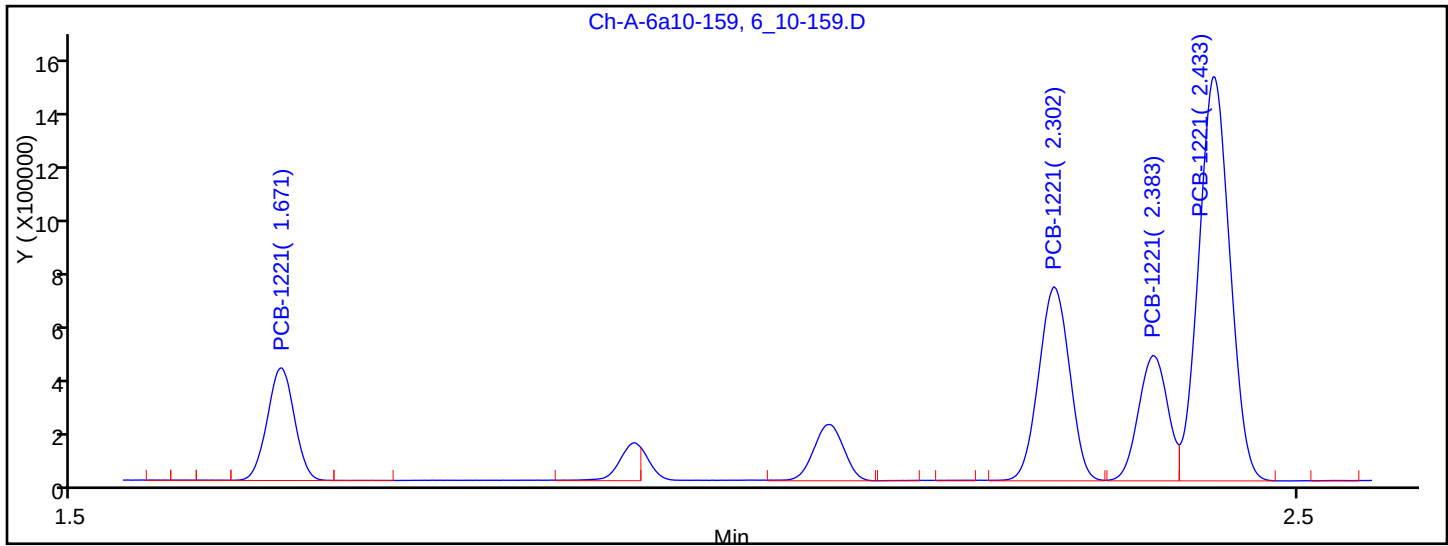
Column:

Detector Ch-A-7A136

3 PCB-1221, CAS: 11104-28-2

Processing Integration Results

1.671	Response = 614840
2.302	Response = 1176647
2.383	Response = 682352
2.433	Response = 2437474



Manual Integration Results

1.671	Response = 605745	M
2.302	Response = 1186770	M
2.383	Response = 729843	M
2.433	Response = 2495566	M

Reviewer: sobolk, 16-Sep-2016 21:25:33

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-159.D

Injection Date: 15-Sep-2016 23:12:04

Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 15

Injection Vol: 1.0 ul

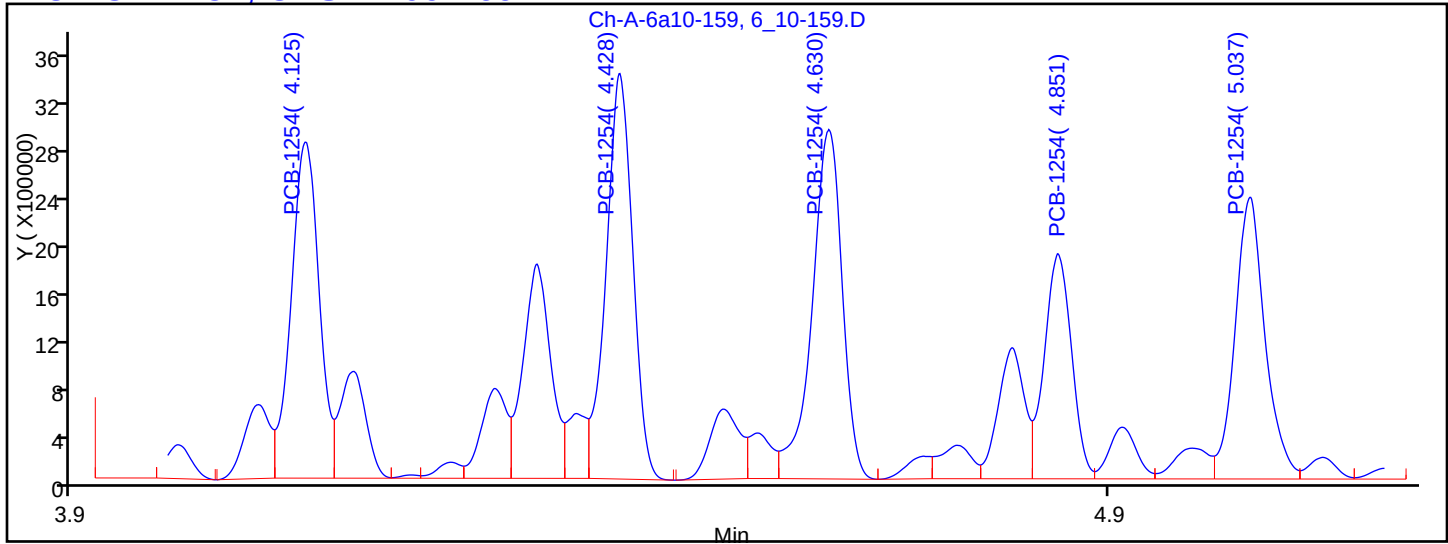
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

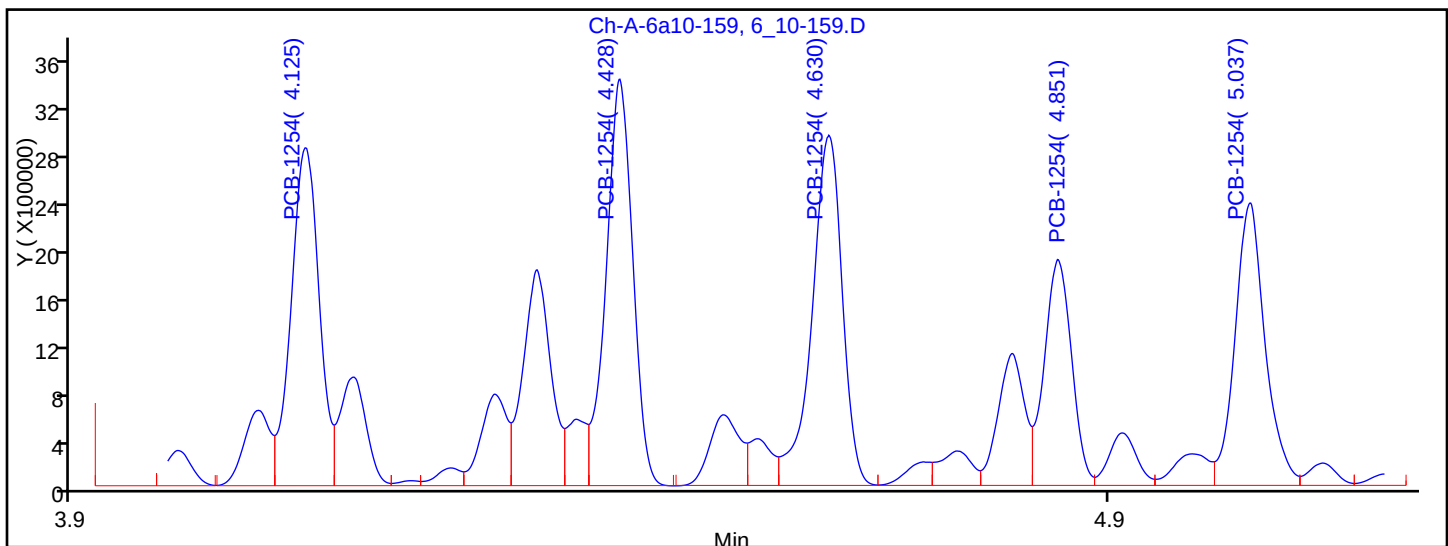
Column:

Detector Ch-A-7A136

8 PCB-1254, CAS: 11097-69-1

Processing Integration Results

4.125	Response = 5117697
4.428	Response = 5883696
4.630	Response = 5754838
4.851	Response = 3335566
5.037	Response = 4609659



Manual Integration Results

4.125	Response = 5170016	M
4.428	Response = 5908924	M
4.630	Response = 5790462	M
4.851	Response = 3360905	M
5.037	Response = 4636867	M

Reviewer: sobolk, 16-Sep-2016 21:11:27

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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12/07/2016

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-160.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Sep-2016 23:28:00 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub4
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:32:09 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:16:33

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene M
 1 1.166 1.164 0.002 28599833 0.5000 0.5000 M
 2 1.141 1.139 0.002 50129566 0.5000 0.5000
 RPD = 0.00
 3 PCB-1221 M
 1 1.670 1.671 -0.001 197632 0.5000 0.5886 M
 1 2.302 2.303 0.000 330614 0.5000 0.5348 M
 1 2.383 2.383 -0.001 219058 0.5000 0.5592 M
 1 2.432 2.432 0.000 755738 0.5000 0.5794 M
 Average of Peak Amounts = 0.5655
 2 1.510 1.509 0.001 327052 0.5000 0.5794
 2 2.086 2.085 0.001 526750 0.5000 0.4721
 2 2.198 2.197 0.001 325667 0.5000 0.5433
 2 2.250 2.248 0.002 1057466 0.5000 0.4737
 Average of Peak Amounts = 0.5171
 RPD = 8.94

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-160.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

8 PCB-1254

1	4.125	4.123	0.003	1337352	0.5000	0.5200	
1	4.428	4.428	0.000	1485770	0.5000	0.5087	
1	4.632	4.630	0.002	1448618	0.5000	0.4537	
1	4.853	4.853	0.000	861898	0.5000	0.4571	
1	5.036	5.038	-0.002	1177510	0.5000	0.4571	

Average of Peak Amounts = 0.4793

2	3.759	3.759	0.000	1449571	0.5000	0.4729	
2	3.847	3.847	0.000	2062106	0.5000	0.4748	
2	4.243	4.243	-0.001	3178791	0.5000	0.4892	
2	4.376	4.377	-0.001	2885363	0.5000	0.4745	
2	4.819	4.818	0.001	2633420	0.5000	0.4742	

Average of Peak Amounts = 0.4771

RPD = 0.45

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00007

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:32:10

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-160.D

Injection Date: 15-Sep-2016 23:28:00

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 2

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

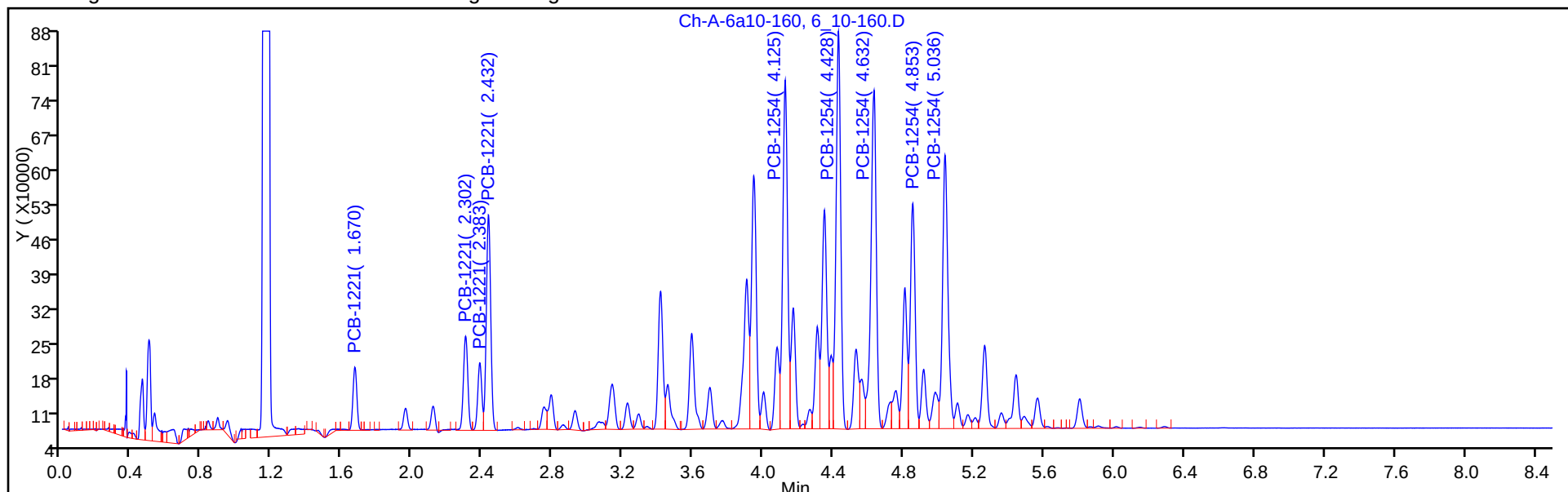
Dil. Factor: 1.0000

ALS Bottle#: 0

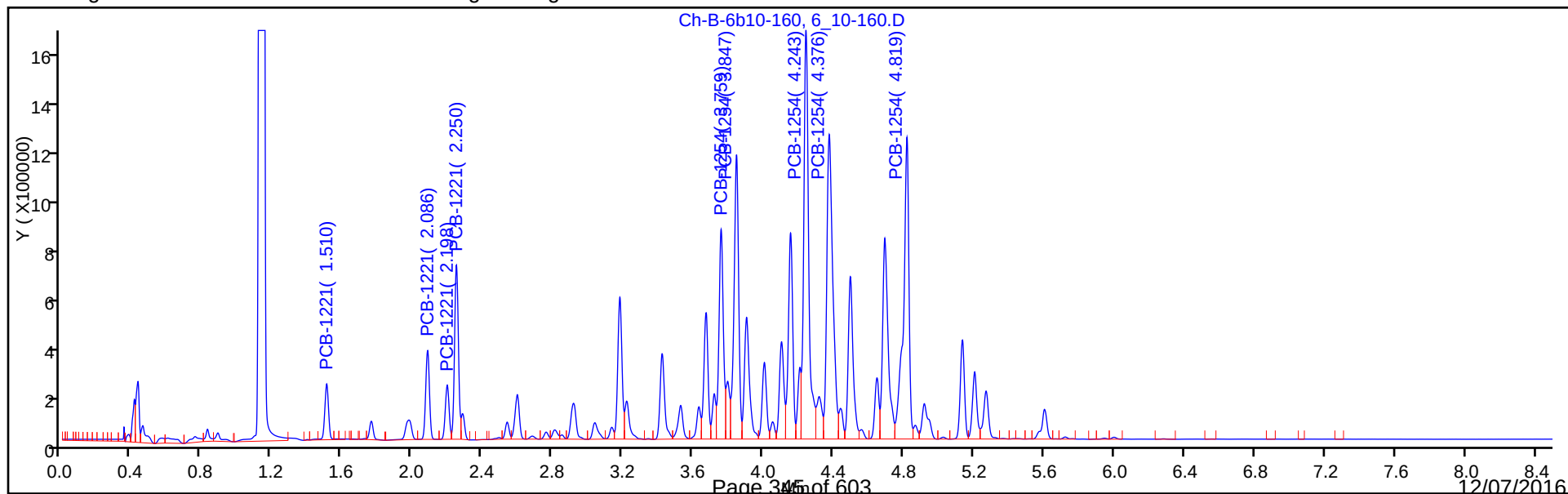
Method: 6890-6 PCB

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

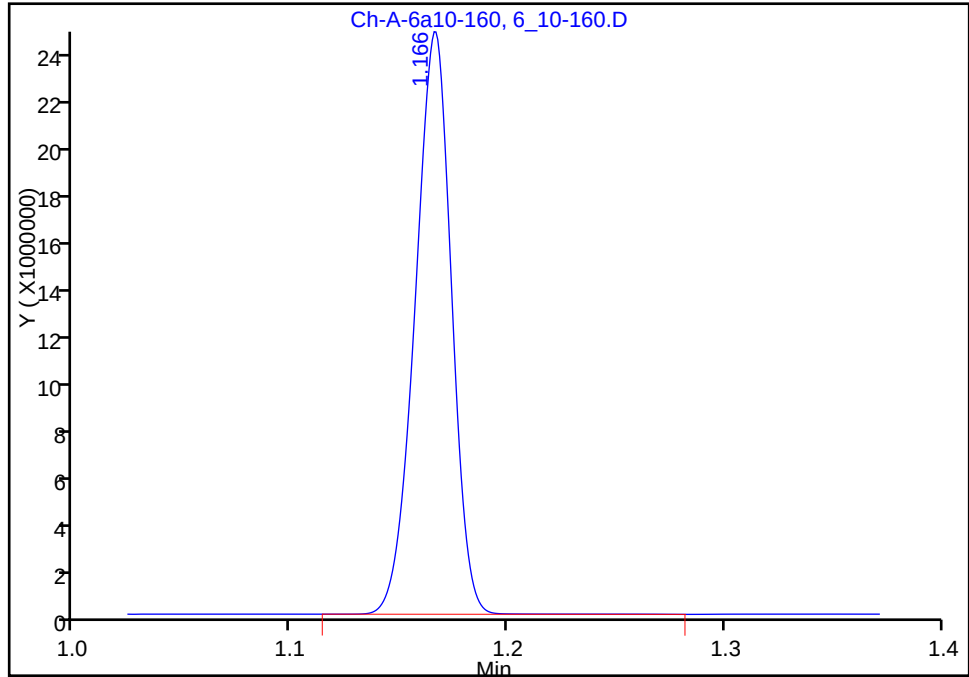
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-160.D
Injection Date: 15-Sep-2016 23:28:00 Instrument ID: HP6890-6
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

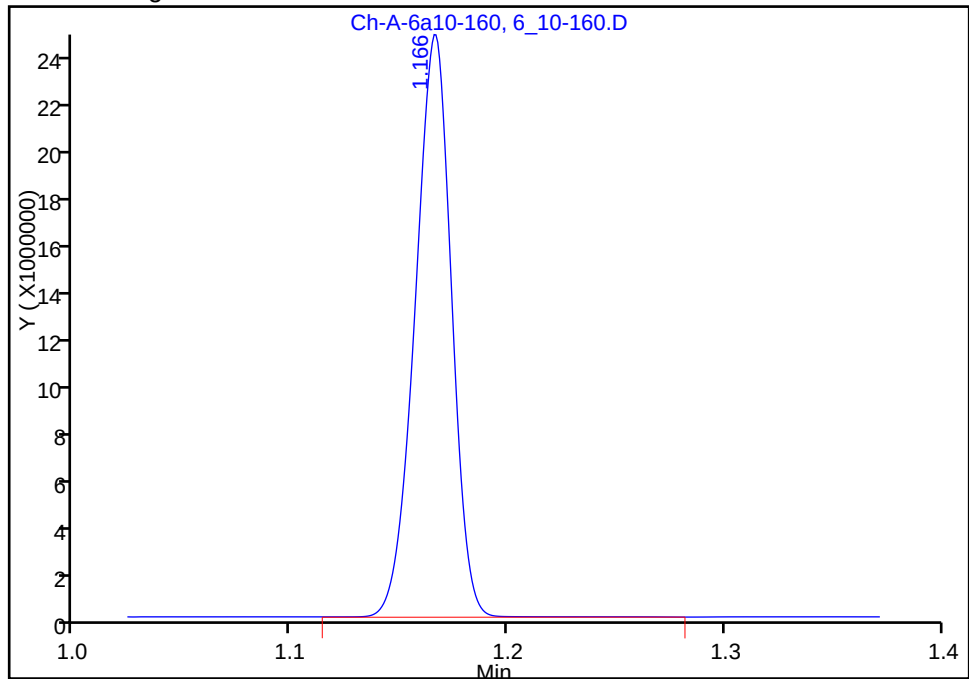
RT: 1.17
Area: 28508353
Amount: 0.500000
Amount Units: ng/uL

Processing Integration Results



RT: 1.17
Area: 28599833
Amount: 0.500000
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 16-Sep-2016 21:18:14

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-160.D

Injection Date: 15-Sep-2016 23:28:00

Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 16

Injection Vol: 1.0 ul

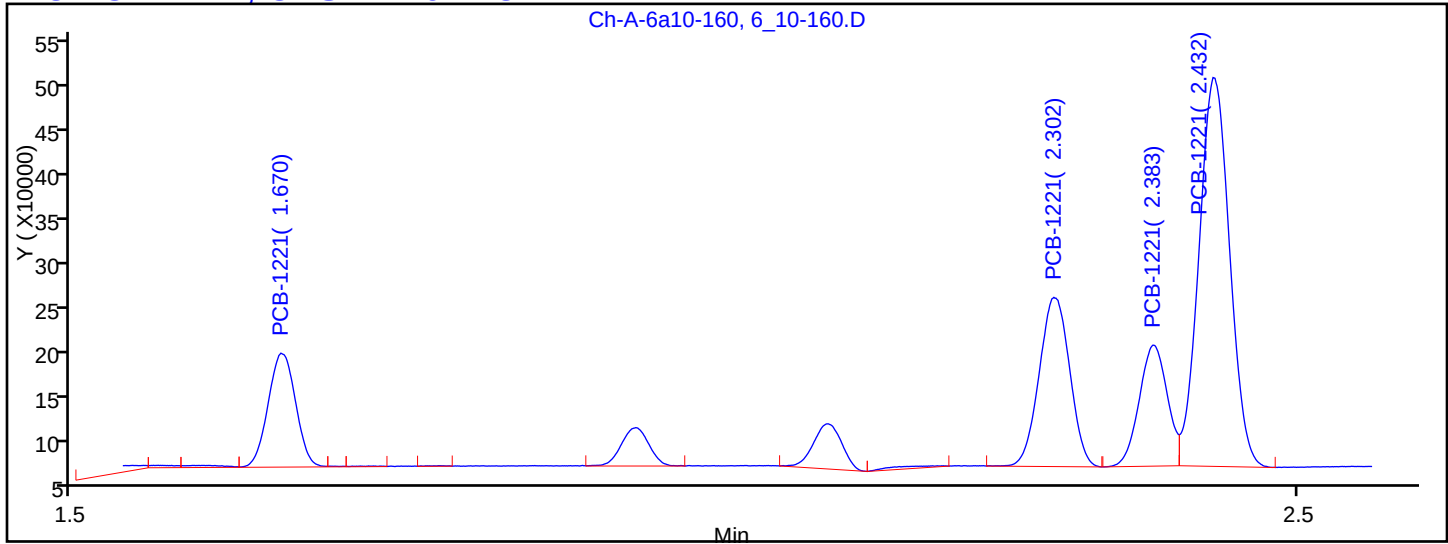
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

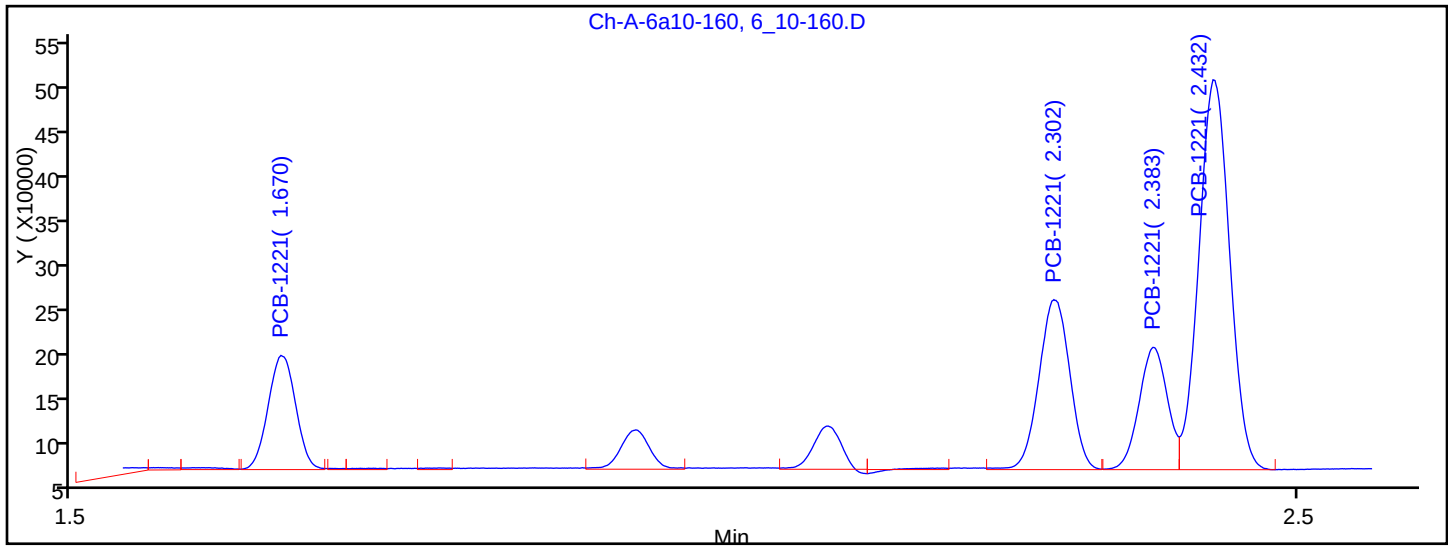
Column:

Detector Ch-A-7A136

3 PCB-1221, CAS: 11104-28-2

Processing Integration Results

1.670	Response = 196640
2.302	Response = 325137
2.383	Response = 214543
2.432	Response = 751440



Manual Integration Results

1.670	Response = 197632	M
2.302	Response = 330614	M
2.383	Response = 219058	M
2.432	Response = 755738	M

Reviewer: sobolk, 16-Sep-2016 21:24:51

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-161.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Sep-2016 23:44:08 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub4
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:32:14 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 17:08:31

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene M
 1 1.164 1.164 0.000 30723838 0.5000 0.5000 M
 2 1.139 1.139 0.000 53953507 0.5000 0.5000
 RPD = 0.00
 3 PCB-1221 M
 1 1.671 1.671 0.000 31232 0.0200 0.0173 M
 1 2.303 2.303 0.000 36625 0.0200 0.0189 M
 1 2.383 2.383 0.000 29349 0.0200 0.0182 M
 1 2.432 2.432 0.000 61643 0.0200 0.0176 M
 Average of Peak Amounts = 0.0180
 2 1.509 1.509 0.000 22816 0.0200 0.0176 M
 2 2.085 2.085 0.000 28773 0.0200 0.0240 M
 2 2.197 2.197 0.000 18747 0.0200 0.0187 M
 2 2.248 2.248 0.000 57089 0.0200 0.0238 M
 Average of Peak Amounts = 0.0210
 RPD = 15.30

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-161.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

8 PCB-1254

M

1	4.123	4.123	0.000	78849	0.0200	0.0194	M
1	4.428	4.428	0.000	88169	0.0200	0.0197	M
1	4.630	4.630	0.000	83092	0.0200	0.0242	M
1	4.853	4.853	0.000	49420	0.0200	0.0244	M
1	5.038	5.038	0.000	67031	0.0200	0.0242	M

Average of Peak Amounts =

0.0224

2	3.759	3.759	0.000	71293	0.0200	0.0216	
2	3.847	3.847	0.000	99335	0.0200	0.0213	
2	4.243	4.243	0.000	137761	0.0200	0.0197	
2	4.377	4.377	0.000	128147	0.0200	0.0196	
2	4.818	4.818	0.000	126191	0.0200	0.0211	

Average of Peak Amounts =

0.0207

RPD = 8.10

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:32:15

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-161.D

Injection Date: 15-Sep-2016 23:44:08

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 1

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

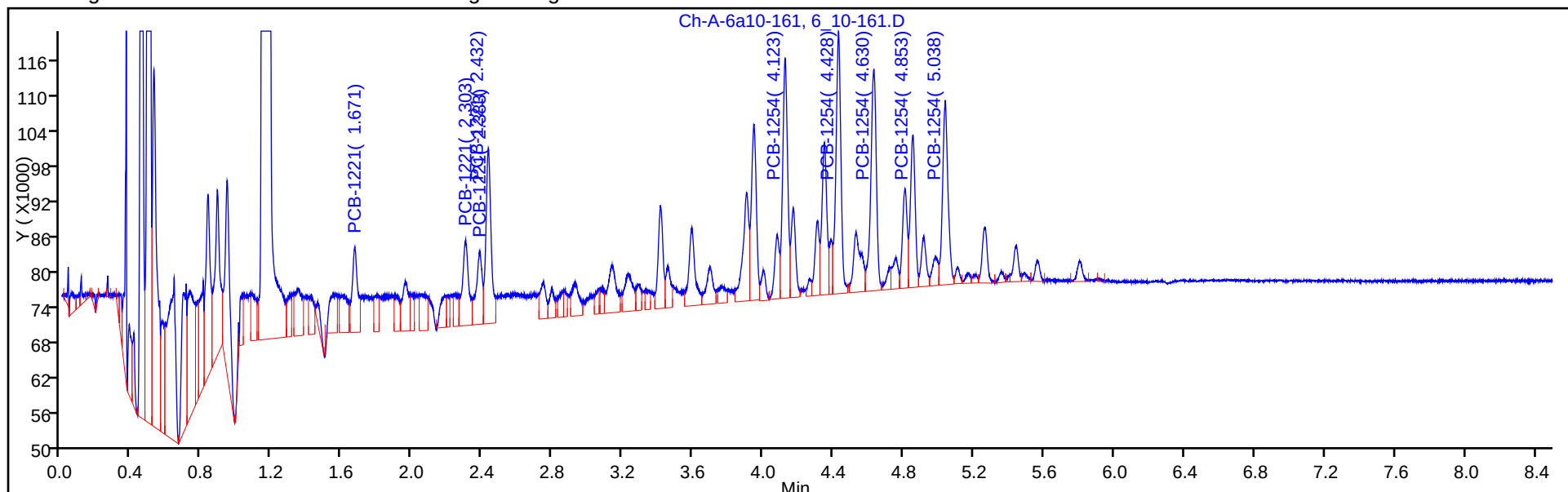
Dil. Factor: 1.0000

ALS Bottle#: 0

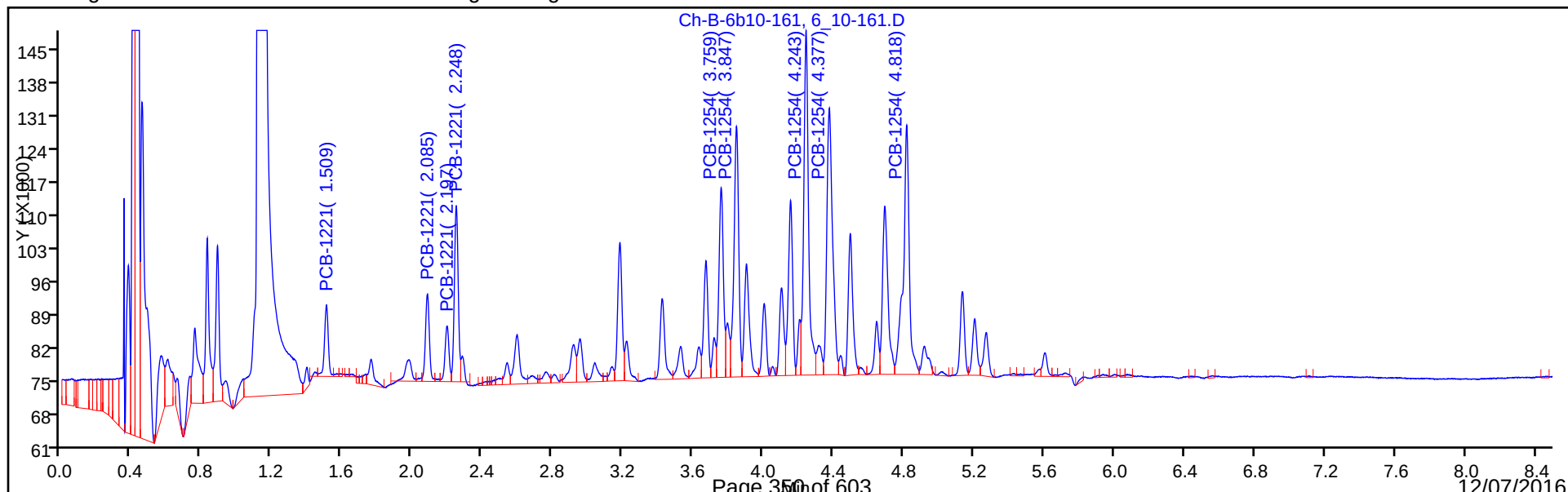
Method: 6890-6 PCB

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

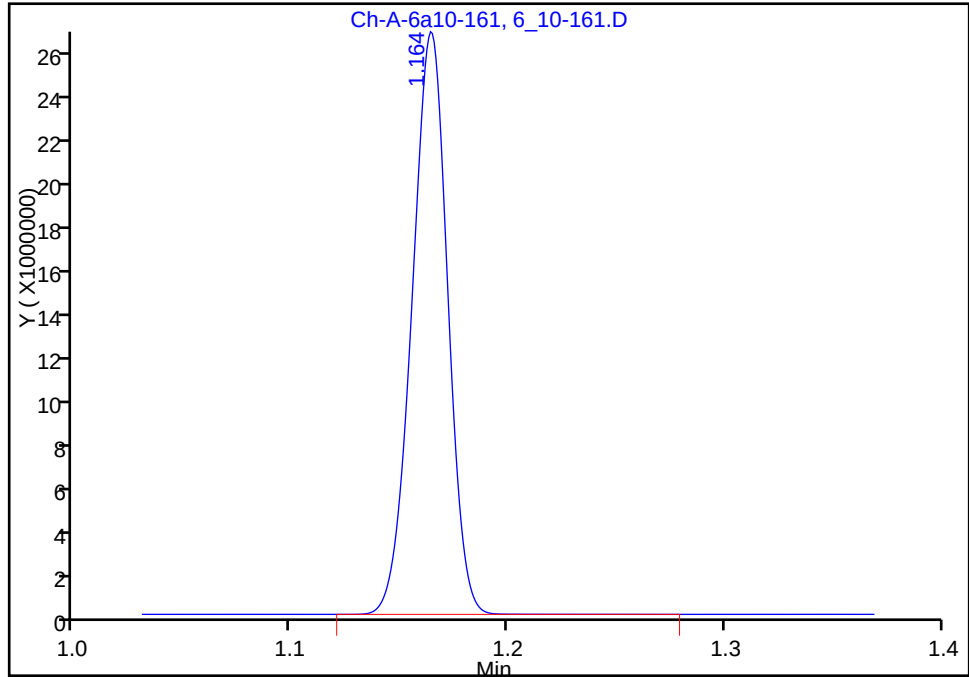
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-161.D
Injection Date: 15-Sep-2016 23:44:08 Instrument ID: HP6890-6
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

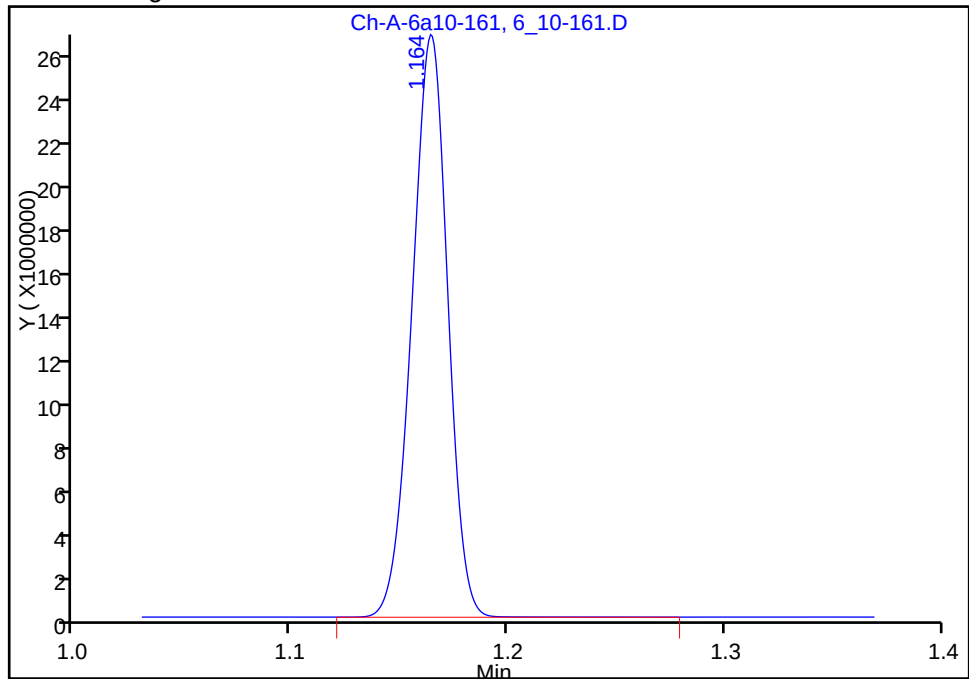
RT: 1.16
Area: 30664886
Amount: 0.500000
Amount Units: ng/uL

Processing Integration Results



RT: 1.16
Area: 30723838
Amount: 0.500000
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 16-Sep-2016 21:22:54

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-161.D

Injection Date: 15-Sep-2016 23:44:08

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 17

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

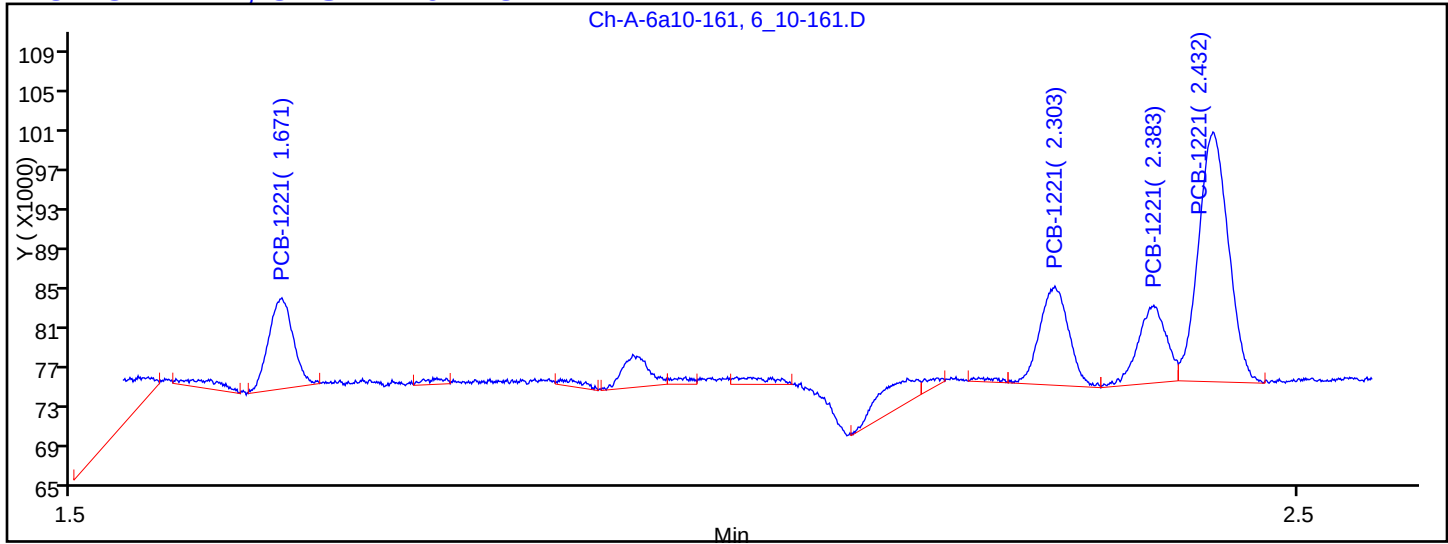
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

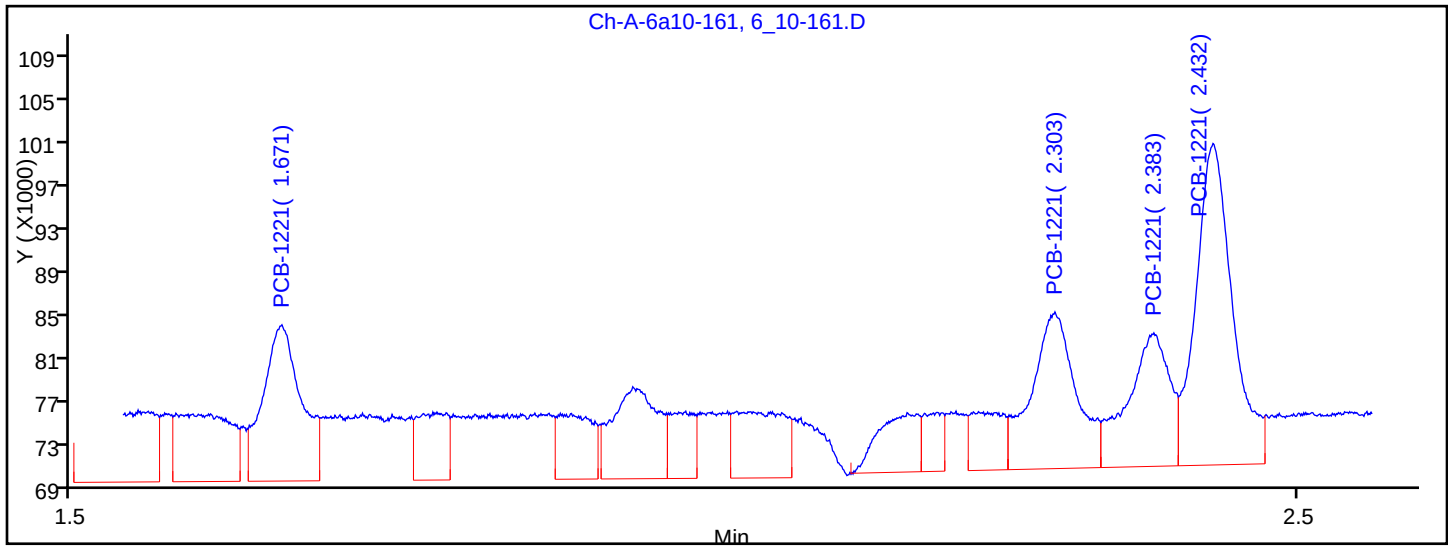
Detector Ch-A-7A136

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.671	Response = 12839
2.303	Response = 16398
2.383	Response = 12754
2.432	Response = 42875



Manual Integration Results

1.671	Response = 31232	M
2.303	Response = 36625	M
2.383	Response = 29349	M
2.432	Response = 61643	M

Reviewer: sobolk, 16-Sep-2016 21:26:36

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-161.D

Injection Date: 15-Sep-2016 23:44:08

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 17

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

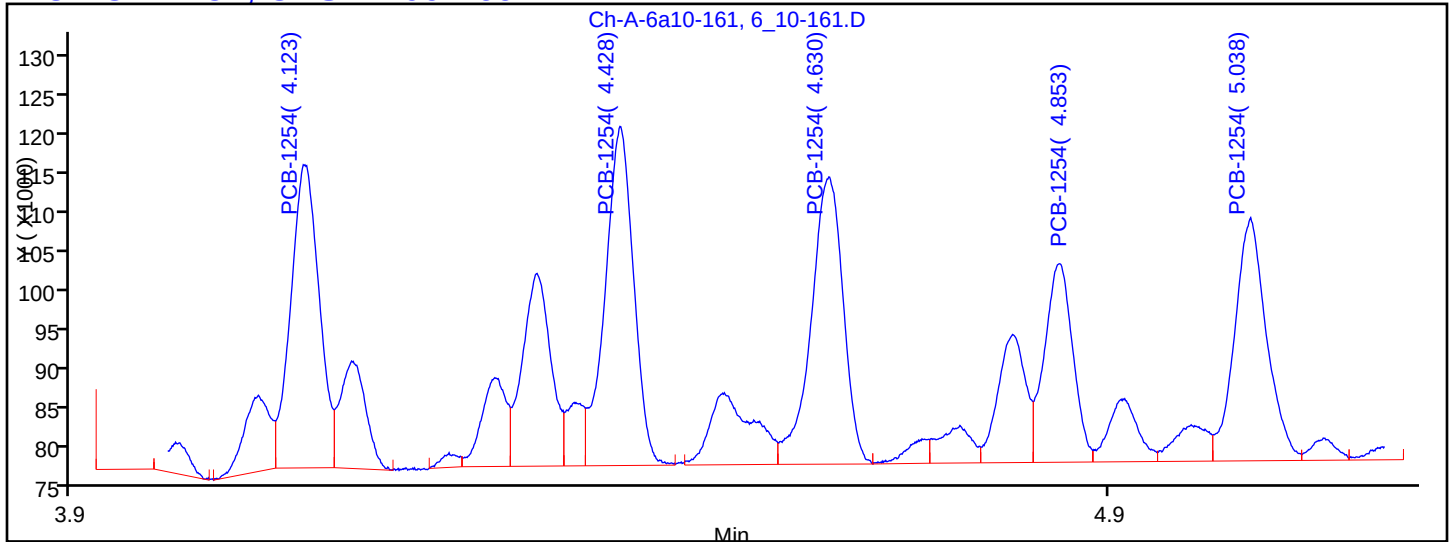
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

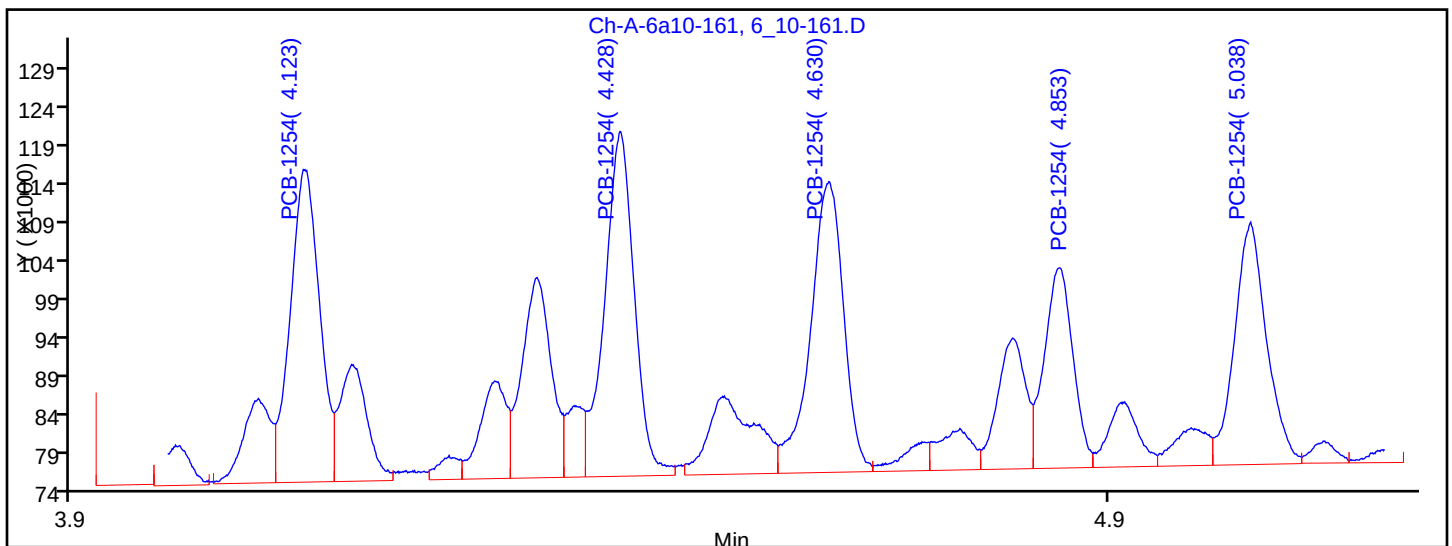
Detector Ch-A-7A136

8 PCB-1254, CAS: 11097-69-1



Processing Integration Results

4.123	Response = 73843
4.428	Response = 82933
4.630	Response = 79209
4.853	Response = 48080
5.038	Response = 66459



Manual Integration Results

4.123	Response = 78849	M
4.428	Response = 88169	M
4.630	Response = 83092	M
4.853	Response = 49420	M
5.038	Response = 67031	M

Reviewer: sobolk, 16-Sep-2016 21:26:36

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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12/07/2016

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 23:12 Calibration End Date: 09/15/2016 23:44 Calibration ID: 28354

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/17	6_10-161.D
Level 2	IC 480-320599/16	6_10-160.D
Level 3	IC 480-320599/15	6_10-159.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	0.0106	0.0065	0.0053			Lin1	0.0001	0.0054							0.9930		0.9900
PCB-1221 Peak 2	0.0133	0.0105	0.0095			Ave		0.0111				17.7		20.0			
PCB-1221 Peak 3	0.0087	0.0065	0.0058			Lin1	0.0001	0.0059							0.9980		0.9900
PCB-1221 Peak 4	0.0265	0.0211	0.0192			Ave		0.0223				16.8		20.0			
PCB-1254 Peak 1	0.0330	0.0289	0.0298			Ave		0.0306				7.1		20.0			
PCB-1254 Peak 2	0.0460	0.0411	0.0428			Ave		0.0433				5.7		20.0			
PCB-1254 Peak 3	0.0638	0.0634	0.0672			Ave		0.0648				3.2		20.0			
PCB-1254 Peak 4	0.0594	0.0576	0.0650			Ave		0.0607				6.4		20.0			
PCB-1254 Peak 5	0.0585	0.0525	0.0552			Ave		0.0554				5.4		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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/15/2016 23:12 Calibration End Date: 09/15/2016 23:44 Calibration ID: 28354

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/17	6_10-161.D
Level 2	IC 480-320599/16	6_10-160.D
Level 3	IC 480-320599/15	6_10-159.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	22816	327052	1072533			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Ave	28773	526750	1939856			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	18747	325667	1172237			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Ave	57089	1057466	3910725			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Ave	71293	1449571	6045932			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Ave	99335	2062106	8694369			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Ave	137761	3178791	13649957			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Ave	128147	2885363	13211409			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Ave	126191	2633420	11204447			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\HP6890-06\20160915-56412.b\6_10-159.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 15-Sep-2016 23:12:04 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub4
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:32:02 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:11:27

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene M
 1 1.165 1.164 0.001 29424075 0.5000 0.5000 M
 2 1.139 1.139 0.000 50788791 0.5000 0.5000
 RPD = 0.00
 3 PCB-1221 M
 1 1.671 1.671 0.000 605745 2.00 1.91 M
 1 2.302 2.303 0.000 1186770 2.00 1.97 M
 1 2.383 2.383 -0.001 729843 2.00 1.94 M
 1 2.433 2.432 0.000 2495566 2.00 1.92 M
 Average of Peak Amounts = 1.94
 2 1.509 1.509 0.000 1072533 2.00 1.92
 2 2.085 2.085 0.000 1939856 2.00 1.72
 2 2.198 2.197 0.001 1172237 2.00 1.96
 2 2.250 2.248 0.002 3910725 2.00 1.73
 Average of Peak Amounts = 1.83
 RPD = 5.57

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-159.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

8 PCB-1254

M

1	4.125	4.123	0.003	5170016	2.00	1.98	M
1	4.428	4.428	0.000	5908924	2.00	1.99	M
1	4.630	4.630	0.000	5790462	2.00	1.76	M
1	4.851	4.853	-0.001	3360905	2.00	1.73	M
1	5.037	5.038	-0.001	4636867	2.00	1.75	M

Average of Peak Amounts =

1.84

2	3.759	3.759	0.000	6045932	2.00	1.95	
2	3.848	3.847	0.001	8694369	2.00	1.98	
2	4.244	4.243	0.001	13649957	2.00	2.07	
2	4.375	4.377	-0.002	13211409	2.00	2.14	
2	4.818	4.818	0.000	11204447	2.00	1.99	

Average of Peak Amounts =

2.03

RPD = 9.46

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@2.0_00005

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:32:03

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-159.D

Injection Date: 15-Sep-2016 23:12:04

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 3

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

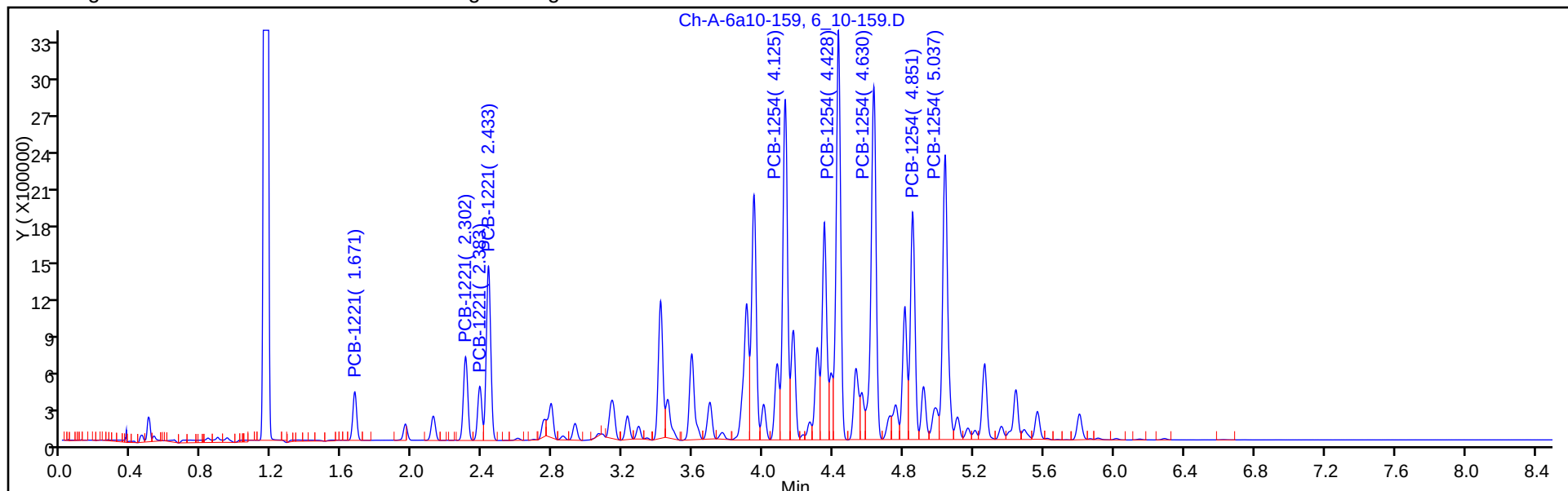
Dil. Factor: 1.0000

ALS Bottle#: 0

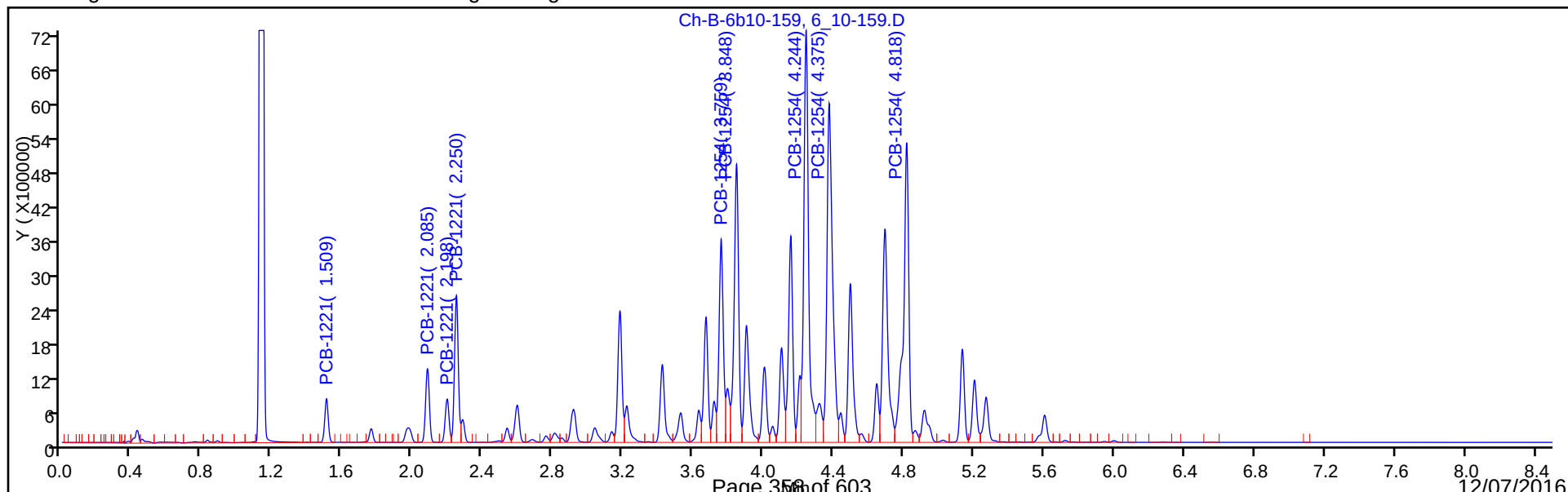
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-160.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Sep-2016 23:28:00 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub4
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:32:09 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:16:33

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene M
 1 1.166 1.164 0.002 28599833 0.5000 0.5000 M
 2 1.141 1.139 0.002 50129566 0.5000 0.5000
 RPD = 0.00
 3 PCB-1221 M
 1 1.670 1.671 -0.001 197632 0.5000 0.5886 M
 1 2.302 2.303 0.000 330614 0.5000 0.5348 M
 1 2.383 2.383 -0.001 219058 0.5000 0.5592 M
 1 2.432 2.432 0.000 755738 0.5000 0.5794 M
 Average of Peak Amounts = 0.5655
 2 1.510 1.509 0.001 327052 0.5000 0.5794
 2 2.086 2.085 0.001 526750 0.5000 0.4721
 2 2.198 2.197 0.001 325667 0.5000 0.5433
 2 2.250 2.248 0.002 1057466 0.5000 0.4737
 Average of Peak Amounts = 0.5171
 RPD = 8.94

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-160.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

8 PCB-1254

1	4.125	4.123	0.003	1337352	0.5000	0.5200	
1	4.428	4.428	0.000	1485770	0.5000	0.5087	
1	4.632	4.630	0.002	1448618	0.5000	0.4537	
1	4.853	4.853	0.000	861898	0.5000	0.4571	
1	5.036	5.038	-0.002	1177510	0.5000	0.4571	

Average of Peak Amounts = 0.4793

2	3.759	3.759	0.000	1449571	0.5000	0.4729	
2	3.847	3.847	0.000	2062106	0.5000	0.4748	
2	4.243	4.243	-0.001	3178791	0.5000	0.4892	
2	4.376	4.377	-0.001	2885363	0.5000	0.4745	
2	4.819	4.818	0.001	2633420	0.5000	0.4742	

Average of Peak Amounts = 0.4771

RPD = 0.45

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00007

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:32:10

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-160.D

Injection Date: 15-Sep-2016 23:28:00

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 2

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

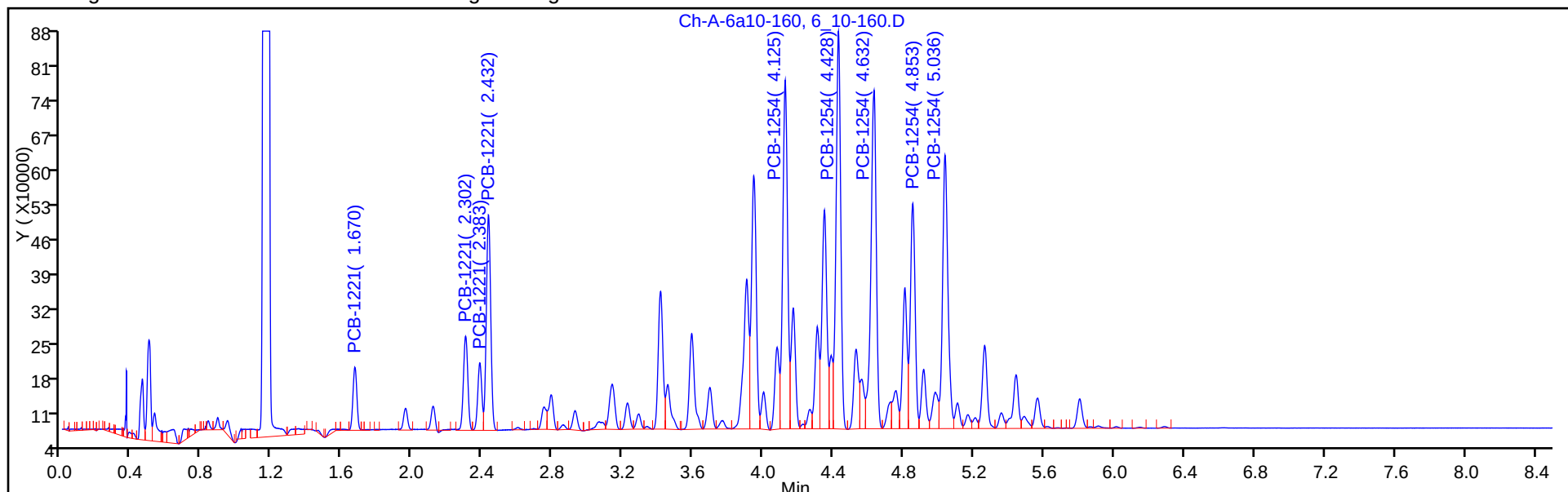
Dil. Factor: 1.0000

ALS Bottle#: 0

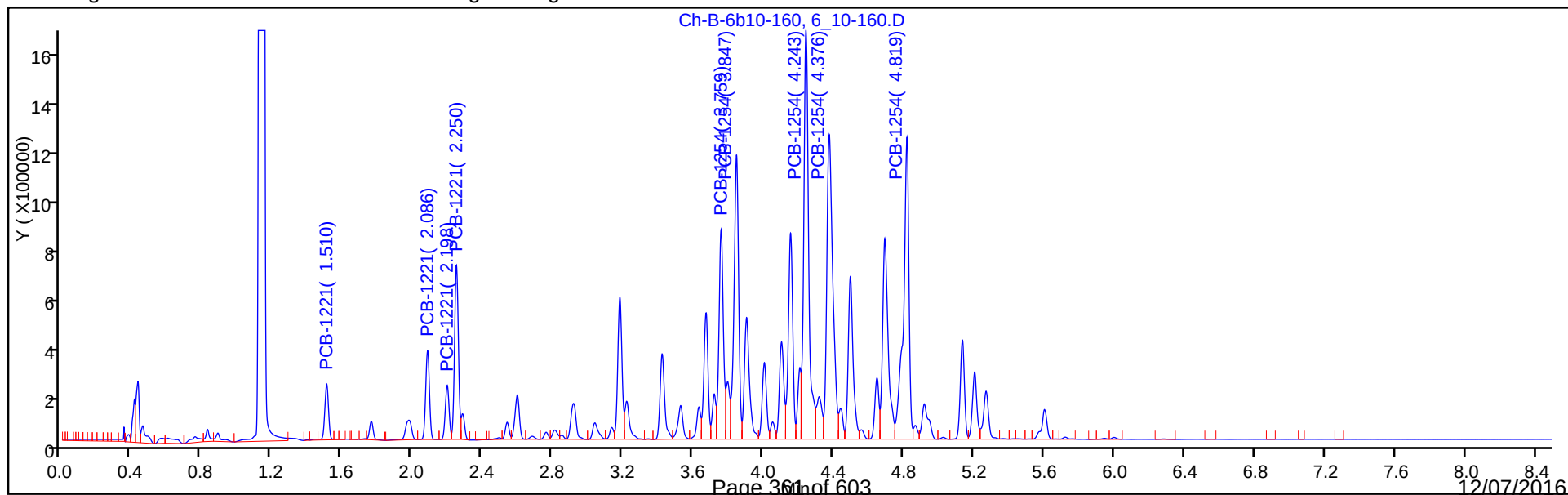
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-161.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Sep-2016 23:44:08 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub4
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:32:14 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 17:08:31

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene M
 1 1.164 1.164 0.000 30723838 0.5000 0.5000 M
 2 1.139 1.139 0.000 53953507 0.5000 0.5000
 RPD = 0.00
 3 PCB-1221 M
 1 1.671 1.671 0.000 31232 0.0200 0.0173 M
 1 2.303 2.303 0.000 36625 0.0200 0.0189 M
 1 2.383 2.383 0.000 29349 0.0200 0.0182 M
 1 2.432 2.432 0.000 61643 0.0200 0.0176 M
 Average of Peak Amounts = 0.0180
 2 1.509 1.509 0.000 22816 0.0200 0.0176 M
 2 2.085 2.085 0.000 28773 0.0200 0.0240 M
 2 2.197 2.197 0.000 18747 0.0200 0.0187 M
 2 2.248 2.248 0.000 57089 0.0200 0.0238 M
 Average of Peak Amounts = 0.0210
 RPD = 15.30

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-161.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

8 PCB-1254

M

1	4.123	4.123	0.000	78849	0.0200	0.0194	M
1	4.428	4.428	0.000	88169	0.0200	0.0197	M
1	4.630	4.630	0.000	83092	0.0200	0.0242	M
1	4.853	4.853	0.000	49420	0.0200	0.0244	M
1	5.038	5.038	0.000	67031	0.0200	0.0242	M

Average of Peak Amounts =

0.0224

2	3.759	3.759	0.000	71293	0.0200	0.0216	
2	3.847	3.847	0.000	99335	0.0200	0.0213	
2	4.243	4.243	0.000	137761	0.0200	0.0197	
2	4.377	4.377	0.000	128147	0.0200	0.0196	
2	4.818	4.818	0.000	126191	0.0200	0.0211	

Average of Peak Amounts =

0.0207

RPD = 8.10

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:32:15

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-161.D

Injection Date: 15-Sep-2016 23:44:08

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 1

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

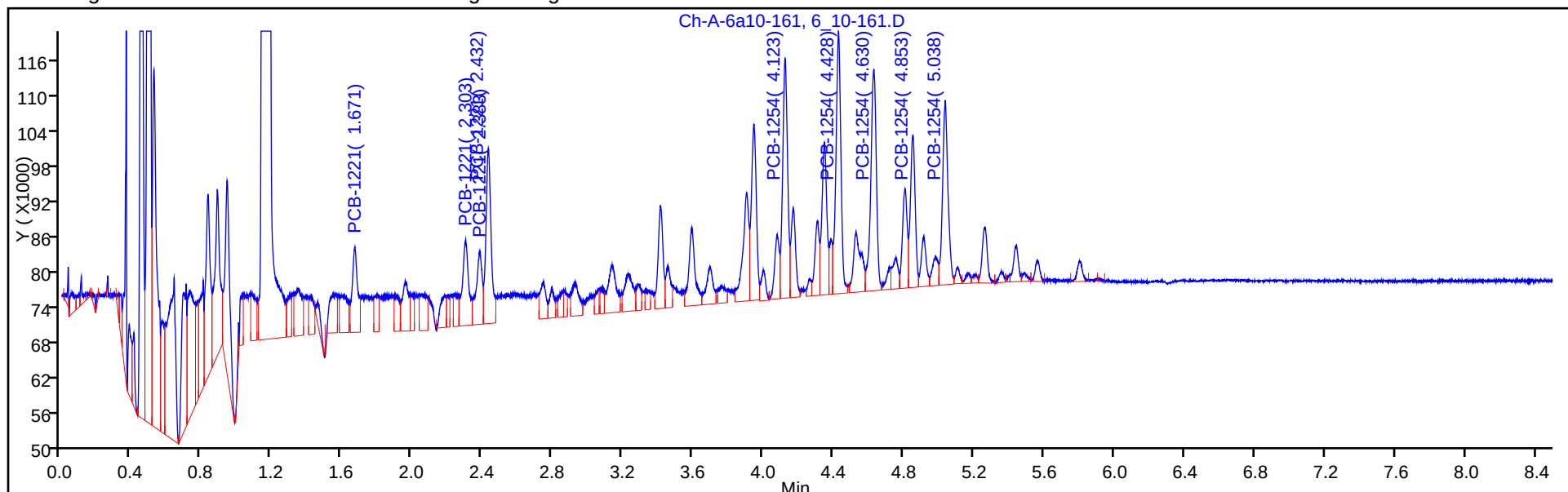
Dil. Factor: 1.0000

ALS Bottle#: 0

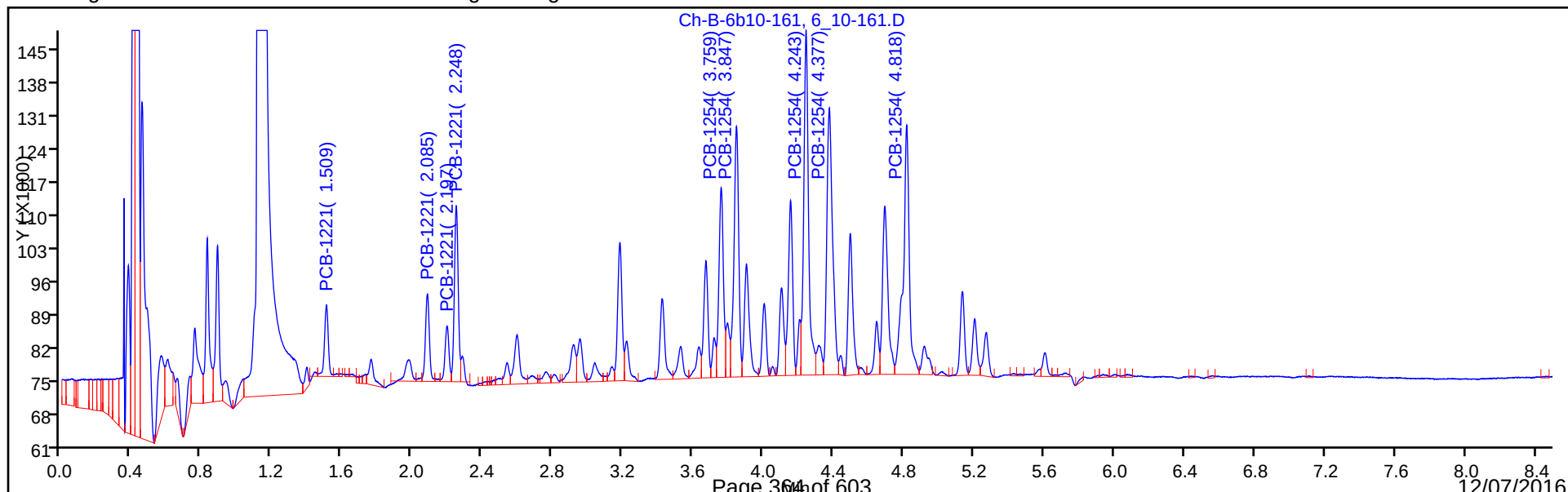
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-161.D

Injection Date: 15-Sep-2016 23:44:08

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 17

Injection Vol: 1.0 ul

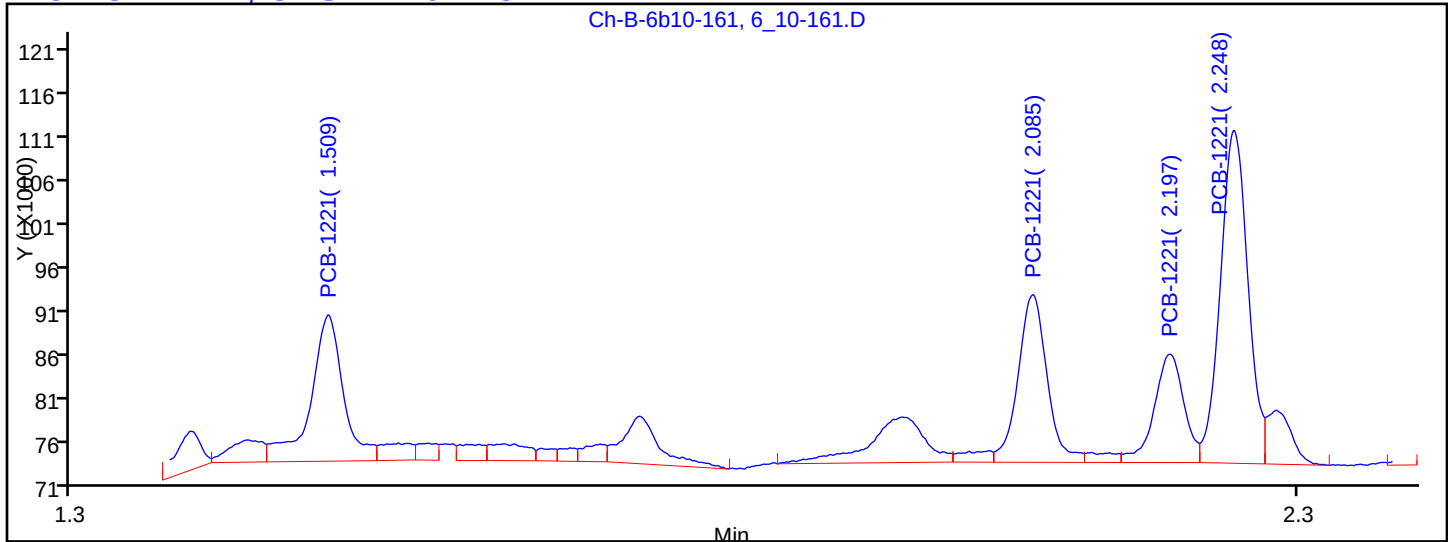
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

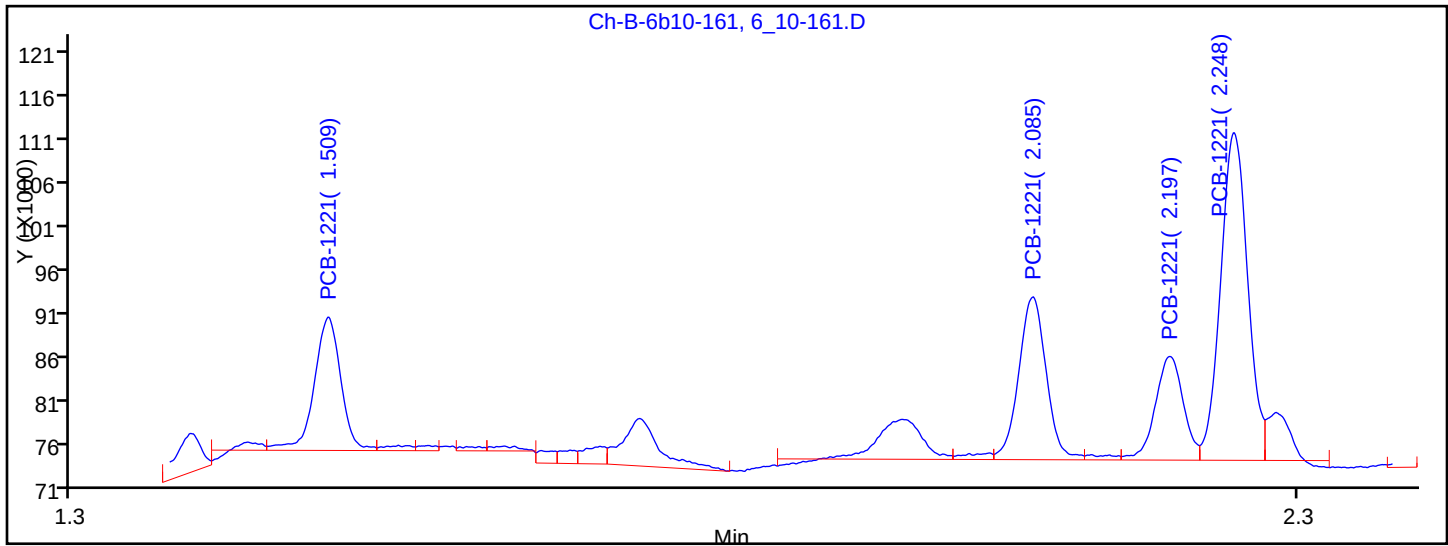
Column:

Detector Ch-B-7b136

3 PCB-1221, CAS: 11104-28-2

Processing Integration Results

1.509	Response = 30783
2.085	Response = 31209
2.197	Response = 20787
2.248	Response = 58958



Manual Integration Results

1.509	Response = 22816	M
2.085	Response = 28773	M
2.197	Response = 18747	M
2.248	Response = 57089	M

Reviewer: sobolk, 16-Sep-2016 21:12:30

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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 00:16 Calibration End Date: 09/16/2016 00:48 Calibration ID: 28359

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/21	6_10-165.D
Level 2	IC 480-320599/20	6_10-164.D
Level 3	IC 480-320599/19	6_10-163.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	0.0365	0.0235	0.0183			Lin1	0.0004	0.0190							0.9900		0.9900
PCB-1232 Peak 2	0.0211	0.0124	0.0101			Lin1	0.0002	0.0104							0.9940		0.9900
PCB-1232 Peak 3	0.0564	0.0386	0.0335			Lin1	0.0005	0.0341							0.9970		0.9900
PCB-1232 Peak 4	0.0281	0.0149	0.0126			Lin1	0.0003	0.0128							0.9970		0.9900
PCB-1232 Peak 5	0.0177	0.0102	0.0088			Lin1	0.0002	0.0089							0.9970		0.9900
PCB-1262 Peak 1	0.0561	0.0419	0.0393			Ave		0.0458				19.7		20.0			
PCB-1262 Peak 2	0.0428	0.0316	0.0296			Lin1	0.0003	0.0298							1.0000		0.9900
PCB-1262 Peak 3	0.0854	0.0702	0.0708			Ave		0.0754				11.4		20.0			
PCB-1262 Peak 4	0.0350	0.0258	0.0245			Lin1	0.0002	0.0246							1.0000		0.9900
PCB-1262 Peak 5	0.0338	0.0265	0.0252			Ave		0.0285				16.2		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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 00:16 Calibration End Date: 09/16/2016 00:48 Calibration ID: 28359

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/21	6_10-165.D
Level 2	IC 480-320599/20	6_10-164.D
Level 3	IC 480-320599/19	6_10-163.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	42368	653952	2103901			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	24454	345974	1166442			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	65423	1073513	3846499			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	32560	415429	1449634			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	20522	284899	1009761			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Ave	65146	1167440	4519898			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	49610	880479	3406688			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Ave	99086	1952787	8136762			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Lin1	40646	717130	2815195			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Ave	39185	738065	2897437			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\HP6890-06\20160915-56412.b\6_10-163.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Sep-2016 00:16:05 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:56:35 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:30:23

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	1.168	1.163	0.005	28730383	0.5000	0.5000	
2	1.143	1.138	0.004	50428734	0.5000	0.5000	
RPD = 0.00							

5 PCB-1232

1	2.434	2.432	0.002	2103901	2.00	1.91	
1	2.927	2.924	0.003	1166442	2.00	1.93	
1	3.140	3.138	0.002	3846499	2.00	1.95	
1	3.226	3.227	-0.001	1449634	2.00	1.94	
1	3.289	3.287	0.002	1009761	2.00	1.95	
Average of Peak Amounts =							1.94
2	2.252	2.248	0.004	3350176	2.00	1.95	a
2	2.593	2.591	0.001	3348360	2.00	1.96	
2	2.918	2.917	0.001	6778691	2.00	1.81	
2	3.039	3.038	0.001	2560597	2.00	1.97	
2	3.137	3.134	0.003	1728647	2.00	1.98	
Average of Peak Amounts =							1.94
RPD = 0.02							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-163.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

10 PCB-1262

1	5.166	5.165	0.001	4519898	2.00	1.72	
1	5.357	5.357	0.000	3406688	2.00	1.98	
1	5.563	5.563	-0.001	8136762	2.00	1.88	
1	5.863	5.863	0.001	2815195	2.00	1.99	
1	5.907	5.909	-0.002	2897437	2.00	1.77	

Average of Peak Amounts = 1.87

2	4.868	4.866	0.002	10997476	2.00	1.94	
2	5.132	5.131	0.001	9188298	2.00	1.96	
2	5.269	5.268	0.001	22748118	2.00	2.09	
2	5.566	5.565	0.001	8745013	2.00	1.98	a
2	5.608	5.606	0.002	12984349	2.00	2.02	a

Average of Peak Amounts = 2.00

RPD = 6.92

Reagents:

32-62w/IS@2.0_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:56:36

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-163.D

Injection Date: 16-Sep-2016 00:16:05

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 3

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

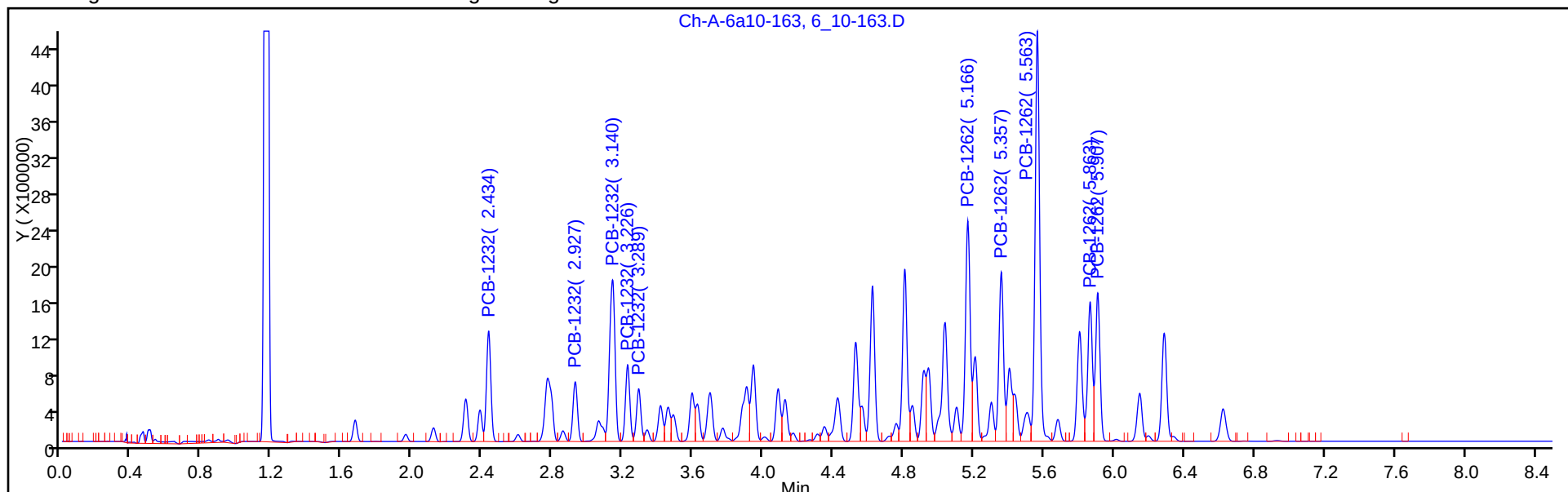
Dil. Factor: 1.0000

ALS Bottle#: 0

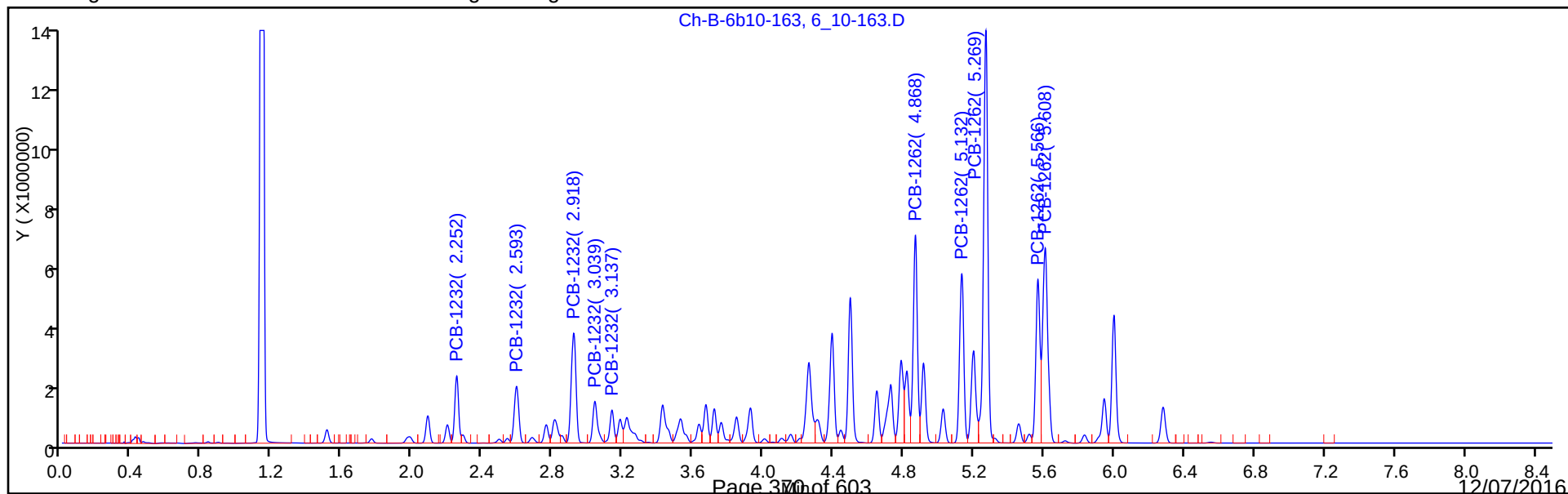
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-164.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Sep-2016 00:32:00 ALS Bottle#: 0 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:56:38 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:45:06

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.165	1.163	0.002	27834849	0.5000	0.5000
2	1.140	1.138	0.002	49155191	0.5000	0.5000

RPD = 0.00

5 PCB-1232

1	2.433	2.432	0.000	653952	0.5000	0.5970
1	2.926	2.924	0.002	345974	0.5000	0.5744
1	3.138	3.138	0.000	1073513	0.5000	0.5514
1	3.226	3.227	-0.001	415429	0.5000	0.5572
1	3.288	3.287	0.001	284899	0.5000	0.5525

Average of Peak Amounts = 0.5665

2	2.250	2.248	0.002	936445	0.5000	0.5500
2	2.592	2.591	0.001	925931	0.5000	0.5444
2	2.918	2.917	0.001	1700546	0.5000	0.4660
2	3.038	3.038	0.000	678654	0.5000	0.5266
2	3.136	3.134	0.002	447510	0.5000	0.5180

Average of Peak Amounts = 0.5210

RPD = 8.37

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-164.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

10 PCB-1262

1	5.166	5.165	0.001	1167440	0.5000	0.4578	
1	5.355	5.357	-0.002	880479	0.5000	0.5212	
1	5.563	5.563	0.000	1952787	0.5000	0.4649	
1	5.863	5.863	0.001	717130	0.5000	0.5153	
1	5.908	5.909	-0.001	738065	0.5000	0.4652	

Average of Peak Amounts = 0.4849

2	4.866	4.866	0.000	2630686	0.5000	0.4767	
2	5.130	5.131	-0.001	2218720	0.5000	0.4859	
2	5.268	5.268	0.000	5261776	0.5000	0.4950	
2	5.567	5.565	0.002	2057983	0.5000	0.4787	a
2	5.607	5.606	0.001	3064777	0.5000	0.4902	a

Average of Peak Amounts = 0.4853

RPD = 0.08

Reagents:

32-62w/IS@0.5_00007

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:56:39

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-164.D

Injection Date: 16-Sep-2016 00:32:00

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 2

Worklist Smp#: 20

Client ID:

Injection Vol: 1.0 ul

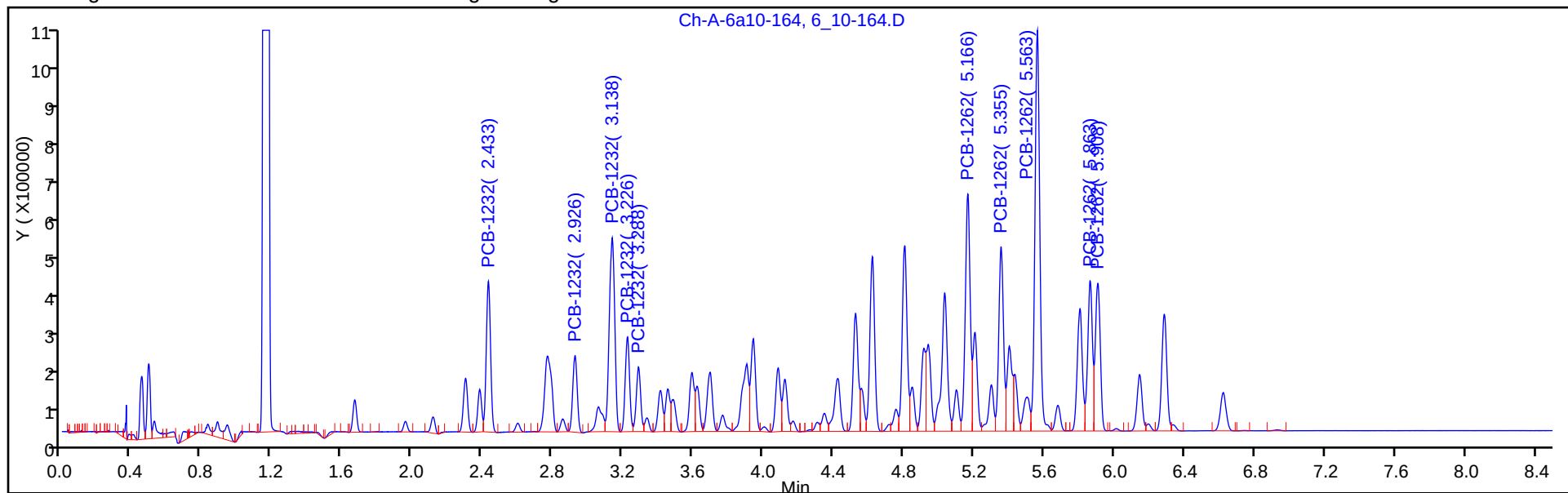
Dil. Factor: 1.0000

ALS Bottle#: 0

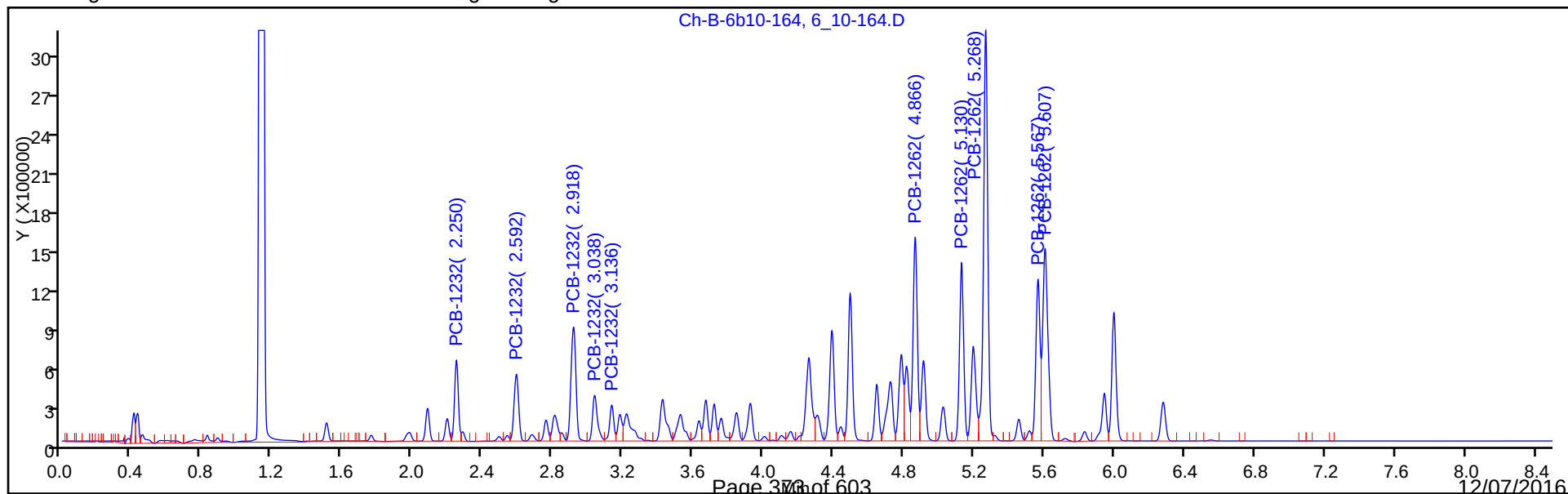
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-165.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Sep-2016 00:48:06 ALS Bottle#: 0 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:56:40 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:46:31

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	1.163	1.163	0.000	29011446	0.5000	0.5000	
2	1.138	1.138	0.000	51360112	0.5000	0.5000	

RPD = 0.00

5 PCB-1232

M

1	2.432	2.432	0.000	42368	0.0200	0.0171	M
1	2.924	2.924	0.000	24454	0.0200	0.0177	M
1	3.138	3.138	0.000	65423	0.0200	0.0184	M
1	3.227	3.227	0.000	32560	0.0200	0.0183	M
1	3.287	3.287	0.000	20522	0.0200	0.0184	M

Average of Peak Amounts =

0.0180

2	2.248	2.248	0.000	55477	0.0200	0.0185	M
2	2.591	2.591	0.000	58188	0.0200	0.0187	
2	2.917	2.917	0.000	88644	0.0200	0.0233	M
2	3.038	3.038	0.000	43598	0.0200	0.0192	
2	3.134	3.134	0.000	27505	0.0200	0.0195	

Average of Peak Amounts =

0.0198

RPD = 9.65

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-165.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

10 PCB-1262

M

1	5.165	5.165	0.000	65146	0.0200	0.0245	M
1	5.357	5.357	0.000	49610	0.0200	0.0194	M
1	5.563	5.563	0.000	99086	0.0200	0.0226	M
1	5.863	5.863	0.000	40646	0.0200	0.0195	M
1	5.909	5.909	0.000	39185	0.0200	0.0237	

Average of Peak Amounts =

0.0219

2	4.866	4.866	0.000	123989	0.0200	0.0215	
2	5.131	5.131	0.000	99929	0.0200	0.0209	
2	5.268	5.268	0.000	214862	0.0200	0.0193	M
2	5.565	5.565	0.000	94450	0.0200	0.0210	a
2	5.606	5.606	0.000	131611	0.0200	0.0201	a

Average of Peak Amounts =

0.0206

RPD = 6.36

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:56:41

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-165.D

Injection Date: 16-Sep-2016 00:48:06

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 1

Worklist Smp#: 21

Client ID:

Injection Vol: 1.0 ul

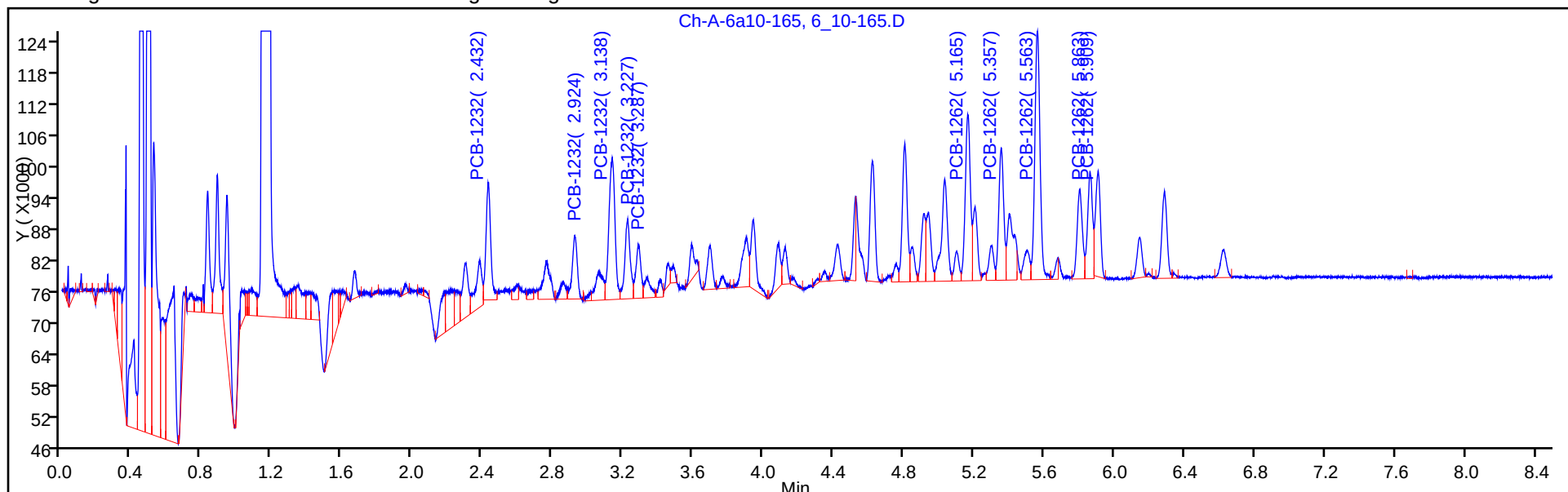
Dil. Factor: 1.0000

ALS Bottle#: 0

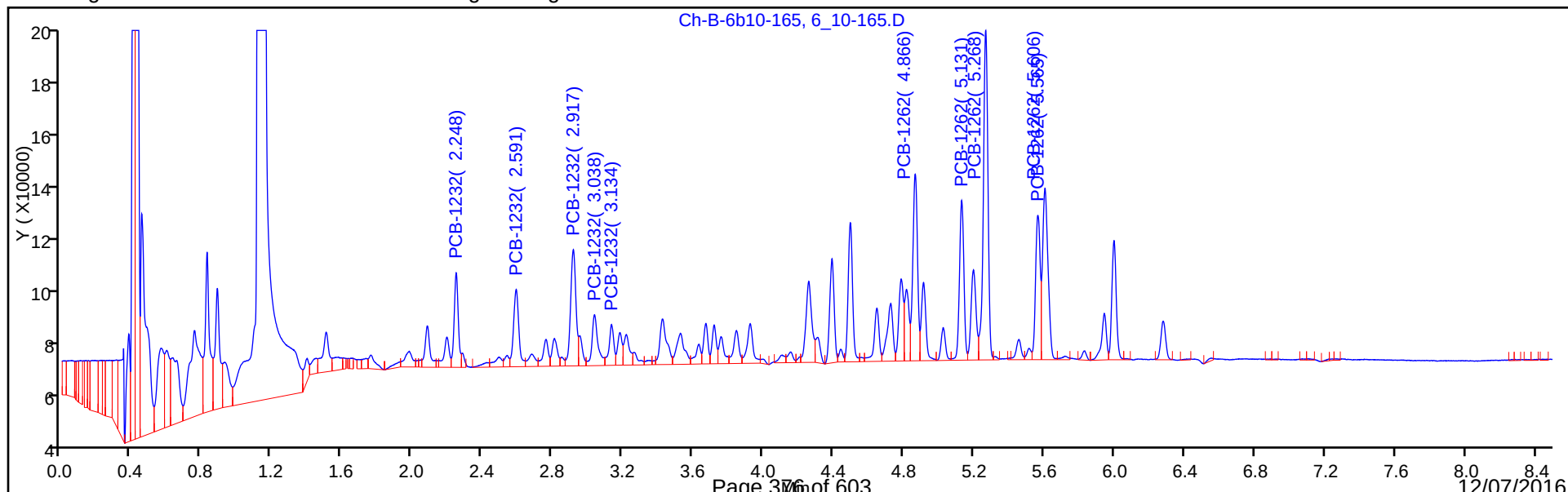
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-165.D

Injection Date: 16-Sep-2016 00:48:06

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

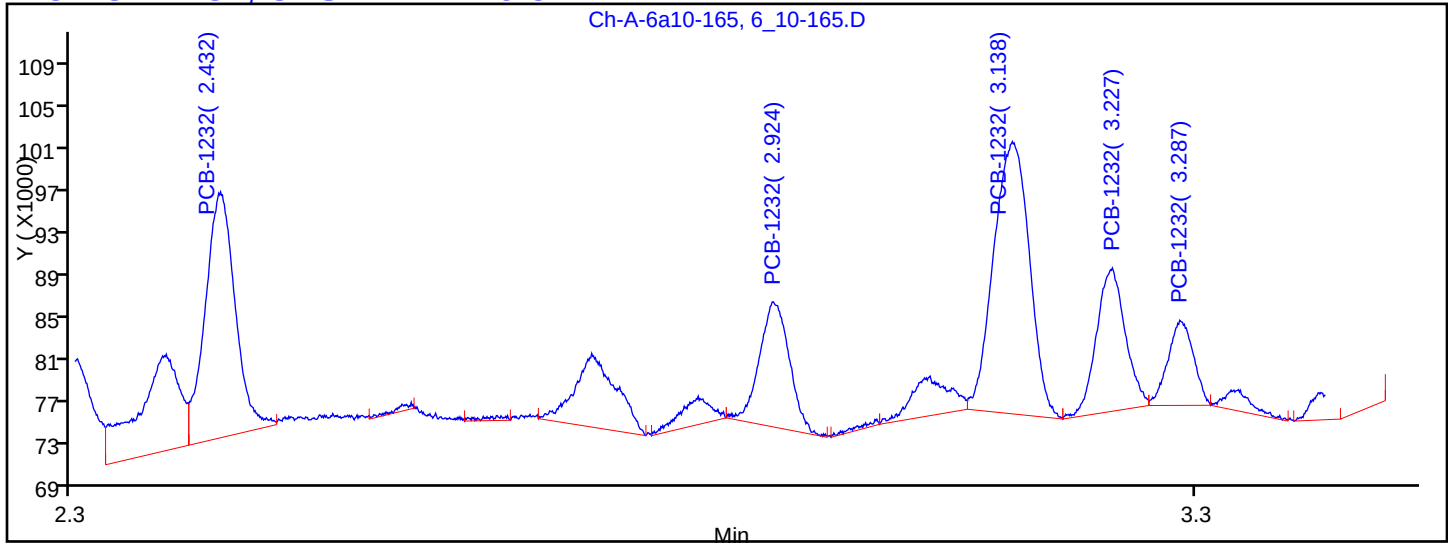
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

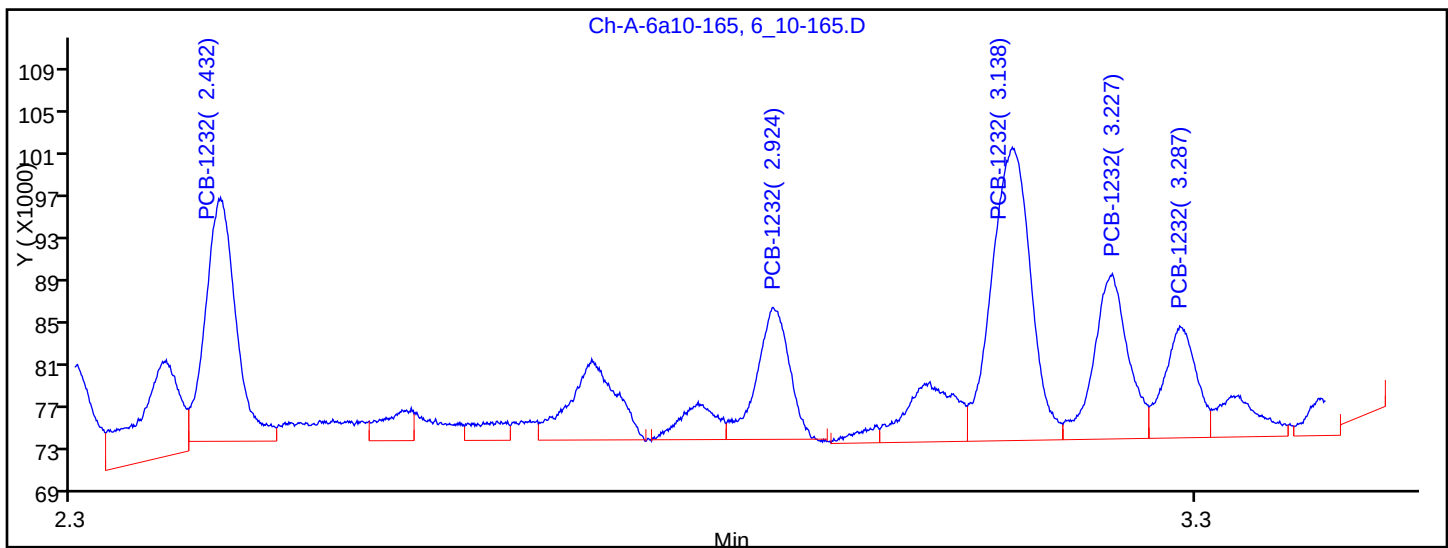
Detector Ch-A-7A136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.432	Response = 42095
2.924	Response = 21449
3.138	Response = 55712
3.227	Response = 23629
3.287	Response = 12393



Manual Integration Results

2.432	Response = 42368	M
2.924	Response = 24454	M
3.138	Response = 65423	M
3.227	Response = 32560	M
3.287	Response = 20522	M

Reviewer: sobolk, 16-Sep-2016 21:46:31

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-165.D

Injection Date: 16-Sep-2016 00:48:06

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 21

Injection Vol: 1.0 ul

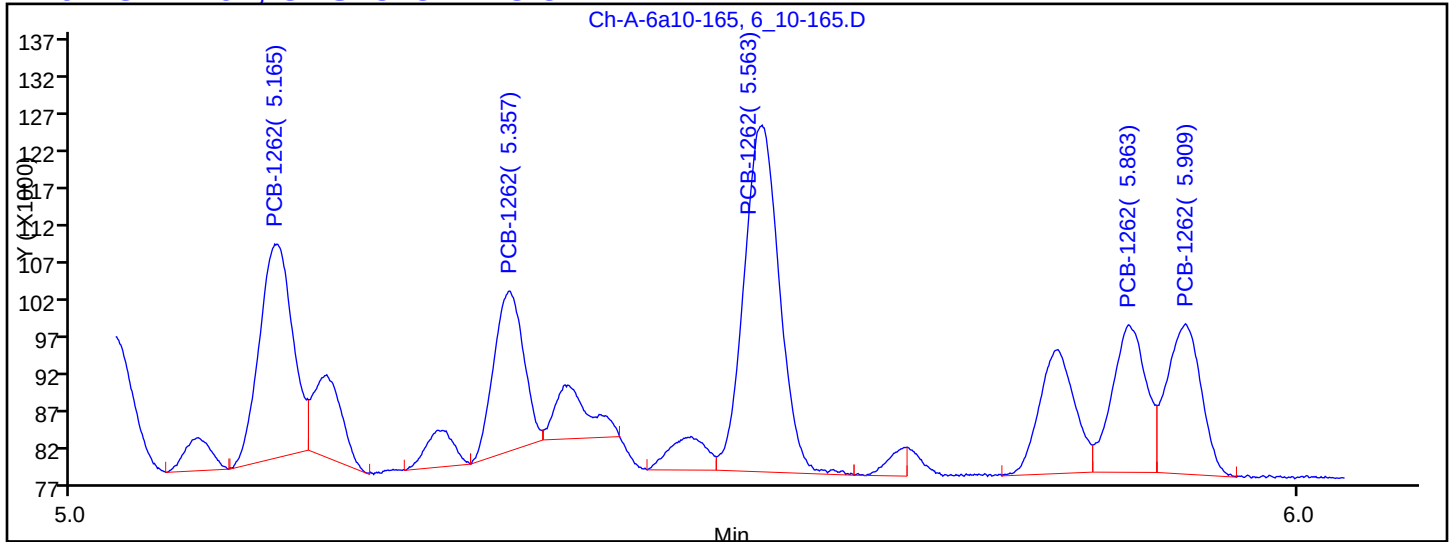
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

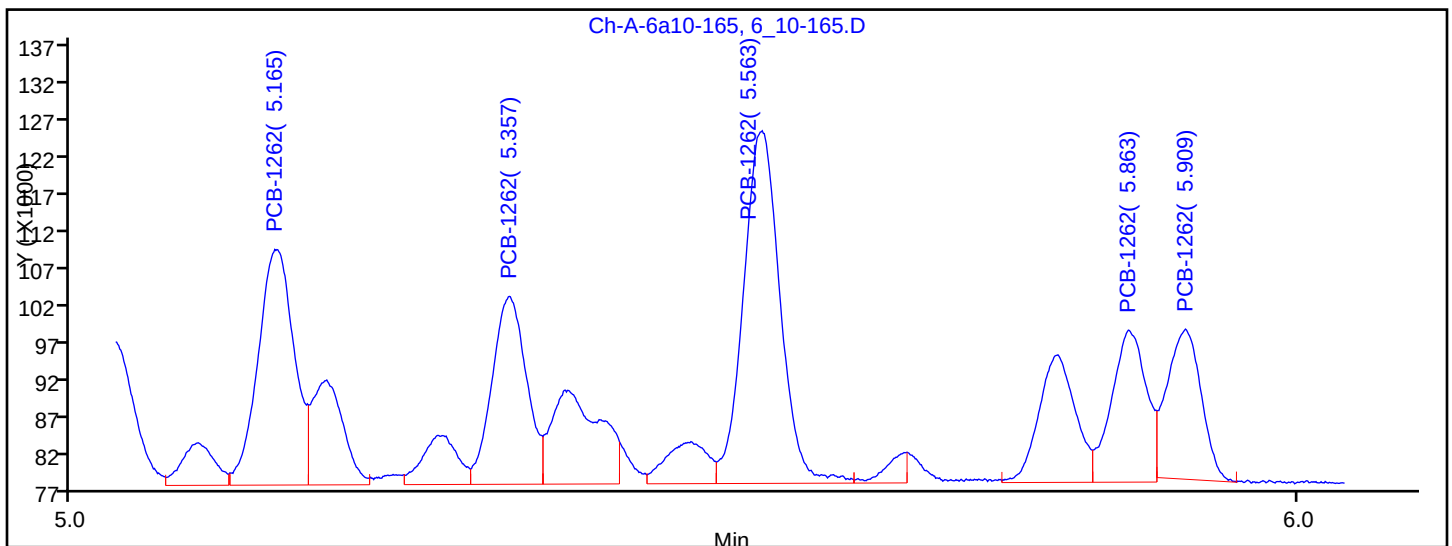
Column:

Detector Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5

Processing Integration Results

5.165	Response = 54620
5.357	Response = 36667
5.563	Response = 94058
5.863	Response = 38619
5.909	Response = 39185



Manual Integration Results

5.165	Response = 65146	M
5.357	Response = 49610	M
5.563	Response = 99086	M
5.863	Response = 40646	M
5.909	Response = 39185	

Reviewer: sobolk, 16-Sep-2016 21:52:31

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 378 of 603

12/07/2016

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 00:16 Calibration End Date: 09/16/2016 00:48 Calibration ID: 28360

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/21	6_10-165.D
Level 2	IC 480-320599/20	6_10-164.D
Level 3	IC 480-320599/19	6_10-163.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	0.0270	0.0191	0.0166			Lin1	0.0002	0.0169							0.9970		0.9900
PCB-1232 Peak 2	0.0283	0.0188	0.0166			Lin1	0.0003	0.0168							0.9980		0.9900
PCB-1232 Peak 3	0.0431	0.0346	0.0336			Ave		0.0371				14.1		20.0			
PCB-1232 Peak 4	0.0212	0.0138	0.0127			Lin1	0.0002	0.0128							0.9990		0.9900
PCB-1232 Peak 5	0.0134	0.0091	0.0086			Lin1	0.0001	0.0086							1.0000		0.9900
PCB-1262 Peak 1	0.0604	0.0535	0.0545			Ave		0.0561				6.6		20.0			
PCB-1262 Peak 2	0.0486	0.0451	0.0456			Ave		0.0464				4.1		20.0			
PCB-1262 Peak 3	0.1046	0.1070	0.1128			Ave		0.1081				3.9		20.0			
PCB-1262 Peak 4	0.0460	0.0419	0.0434			Ave		0.0437				4.8		20.0			
PCB-1262 Peak 5	0.0641	0.0623	0.0644			Ave		0.0636				1.7		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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 00:16 Calibration End Date: 09/16/2016 00:48 Calibration ID: 28360

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/21	6_10-165.D
Level 2	IC 480-320599/20	6_10-164.D
Level 3	IC 480-320599/19	6_10-163.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	55477	936445	3350176			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	58188	925931	3348360			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Ave	88644	1700546	6778691			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	43598	678654	2560597			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	27505	447510	1728647			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Ave	123989	2630686	10997476			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Ave	99929	2218720	9188298			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Ave	214862	5261776	22748118			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Ave	94450	2057983	8745013			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Ave	131611	3064777	12984349			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\HP6890-06\20160915-56412.b\6_10-163.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Sep-2016 00:16:05 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:56:35 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:30:23

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	1.168	1.163	0.005	28730383	0.5000	0.5000	
2	1.143	1.138	0.004	50428734	0.5000	0.5000	
RPD = 0.00							

5 PCB-1232

1	2.434	2.432	0.002	2103901	2.00	1.91	
1	2.927	2.924	0.003	1166442	2.00	1.93	
1	3.140	3.138	0.002	3846499	2.00	1.95	
1	3.226	3.227	-0.001	1449634	2.00	1.94	
1	3.289	3.287	0.002	1009761	2.00	1.95	
Average of Peak Amounts =							1.94
2	2.252	2.248	0.004	3350176	2.00	1.95	a
2	2.593	2.591	0.001	3348360	2.00	1.96	
2	2.918	2.917	0.001	6778691	2.00	1.81	
2	3.039	3.038	0.001	2560597	2.00	1.97	
2	3.137	3.134	0.003	1728647	2.00	1.98	
Average of Peak Amounts =							1.94
RPD = 0.02							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-163.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

10 PCB-1262

1	5.166	5.165	0.001	4519898	2.00	1.72	
1	5.357	5.357	0.000	3406688	2.00	1.98	
1	5.563	5.563	-0.001	8136762	2.00	1.88	
1	5.863	5.863	0.001	2815195	2.00	1.99	
1	5.907	5.909	-0.002	2897437	2.00	1.77	

Average of Peak Amounts = 1.87

2	4.868	4.866	0.002	10997476	2.00	1.94	
2	5.132	5.131	0.001	9188298	2.00	1.96	
2	5.269	5.268	0.001	22748118	2.00	2.09	
2	5.566	5.565	0.001	8745013	2.00	1.98	a
2	5.608	5.606	0.002	12984349	2.00	2.02	a

Average of Peak Amounts = 2.00

RPD = 6.92

Reagents:

32-62w/IS@2.0_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:56:36

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-163.D

Injection Date: 16-Sep-2016 00:16:05

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 3

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

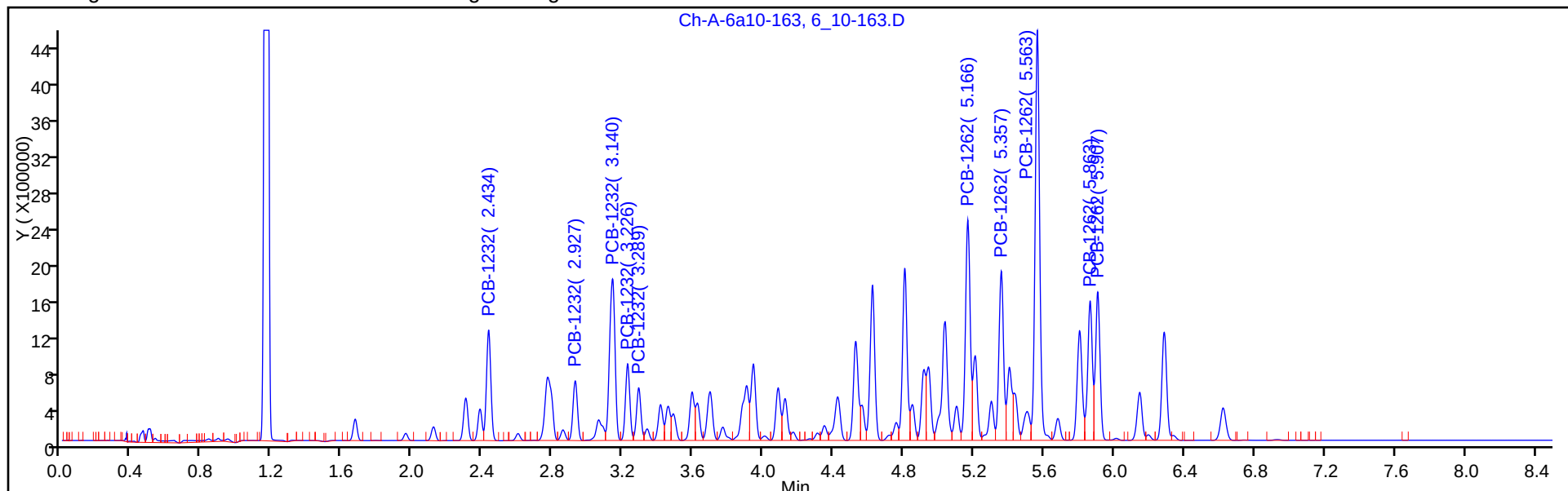
Dil. Factor: 1.0000

ALS Bottle#: 0

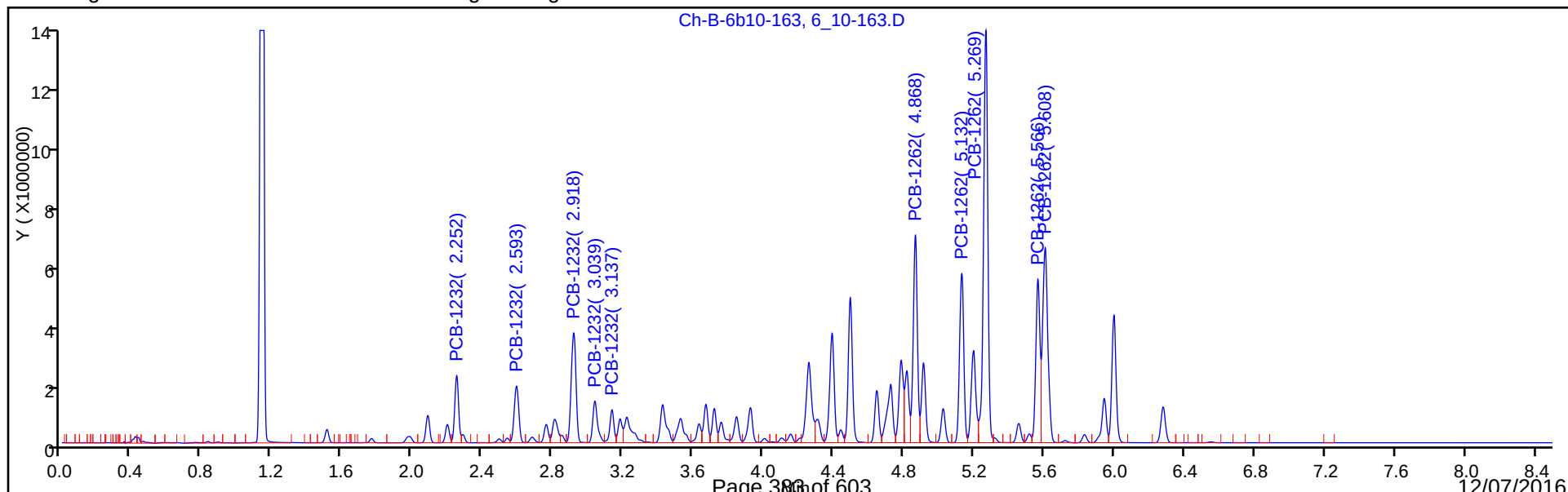
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-164.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Sep-2016 00:32:00 ALS Bottle#: 0 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:56:38 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:45:06

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene

1	1.165	1.163	0.002	27834849	0.5000	0.5000
2	1.140	1.138	0.002	49155191	0.5000	0.5000

RPD = 0.00

5 PCB-1232

1	2.433	2.432	0.000	653952	0.5000	0.5970
1	2.926	2.924	0.002	345974	0.5000	0.5744
1	3.138	3.138	0.000	1073513	0.5000	0.5514
1	3.226	3.227	-0.001	415429	0.5000	0.5572
1	3.288	3.287	0.001	284899	0.5000	0.5525

Average of Peak Amounts = 0.5665

2	2.250	2.248	0.002	936445	0.5000	0.5500
2	2.592	2.591	0.001	925931	0.5000	0.5444
2	2.918	2.917	0.001	1700546	0.5000	0.4660
2	3.038	3.038	0.000	678654	0.5000	0.5266
2	3.136	3.134	0.002	447510	0.5000	0.5180

Average of Peak Amounts = 0.5210

RPD = 8.37

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-164.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

10 PCB-1262

1	5.166	5.165	0.001	1167440	0.5000	0.4578	
1	5.355	5.357	-0.002	880479	0.5000	0.5212	
1	5.563	5.563	0.000	1952787	0.5000	0.4649	
1	5.863	5.863	0.001	717130	0.5000	0.5153	
1	5.908	5.909	-0.001	738065	0.5000	0.4652	

Average of Peak Amounts = 0.4849

2	4.866	4.866	0.000	2630686	0.5000	0.4767	
2	5.130	5.131	-0.001	2218720	0.5000	0.4859	
2	5.268	5.268	0.000	5261776	0.5000	0.4950	
2	5.567	5.565	0.002	2057983	0.5000	0.4787	a
2	5.607	5.606	0.001	3064777	0.5000	0.4902	a

Average of Peak Amounts = 0.4853

RPD = 0.08

Reagents:

32-62w/IS@0.5_00007

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:56:39

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-164.D

Injection Date: 16-Sep-2016 00:32:00

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 2

Worklist Smp#: 20

Client ID:

Injection Vol: 1.0 ul

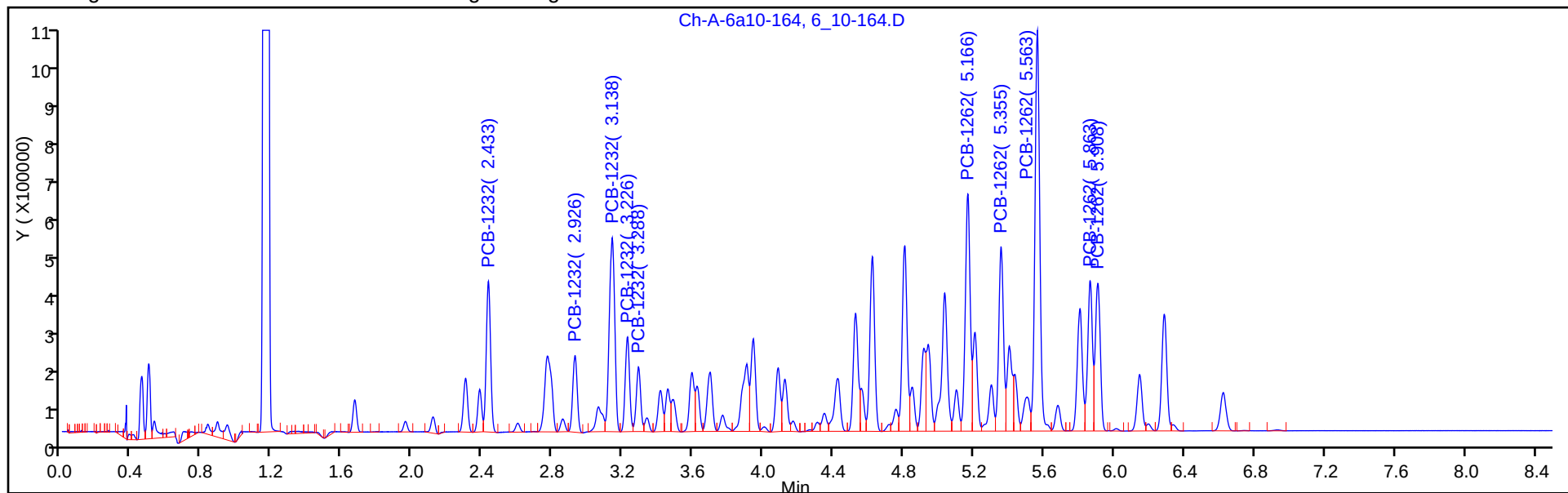
Dil. Factor: 1.0000

ALS Bottle#: 0

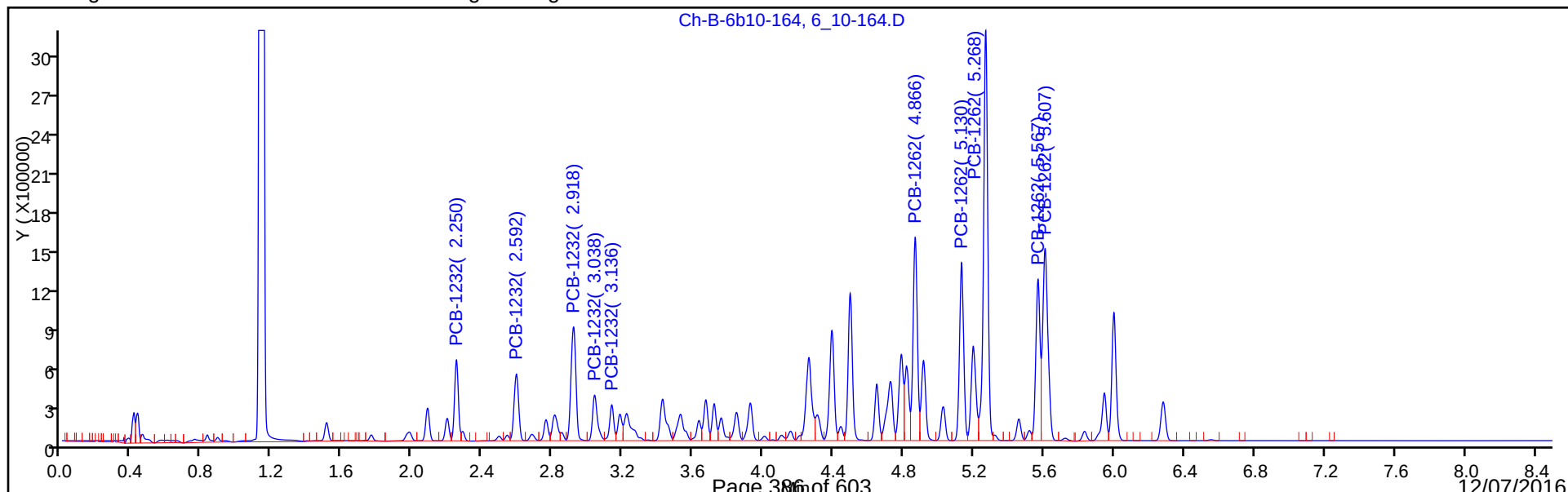
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-165.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Sep-2016 00:48:06 ALS Bottle#: 0 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 21:56:40 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:46:31

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	1.163	1.163	0.000	29011446	0.5000	0.5000	
2	1.138	1.138	0.000	51360112	0.5000	0.5000	

RPD = 0.00

5 PCB-1232

M

1	2.432	2.432	0.000	42368	0.0200	0.0171	M
1	2.924	2.924	0.000	24454	0.0200	0.0177	M
1	3.138	3.138	0.000	65423	0.0200	0.0184	M
1	3.227	3.227	0.000	32560	0.0200	0.0183	M
1	3.287	3.287	0.000	20522	0.0200	0.0184	M

Average of Peak Amounts =

0.0180

2	2.248	2.248	0.000	55477	0.0200	0.0185	M
2	2.591	2.591	0.000	58188	0.0200	0.0187	
2	2.917	2.917	0.000	88644	0.0200	0.0233	M
2	3.038	3.038	0.000	43598	0.0200	0.0192	
2	3.134	3.134	0.000	27505	0.0200	0.0195	

Average of Peak Amounts =

0.0198

RPD = 9.65

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-165.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

10 PCB-1262

M

1	5.165	5.165	0.000	65146	0.0200	0.0245	M
1	5.357	5.357	0.000	49610	0.0200	0.0194	M
1	5.563	5.563	0.000	99086	0.0200	0.0226	M
1	5.863	5.863	0.000	40646	0.0200	0.0195	M
1	5.909	5.909	0.000	39185	0.0200	0.0237	

Average of Peak Amounts =

0.0219

2	4.866	4.866	0.000	123989	0.0200	0.0215	
2	5.131	5.131	0.000	99929	0.0200	0.0209	
2	5.268	5.268	0.000	214862	0.0200	0.0193	M
2	5.565	5.565	0.000	94450	0.0200	0.0210	a
2	5.606	5.606	0.000	131611	0.0200	0.0201	a

Average of Peak Amounts =

0.0206

RPD = 6.36

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 21:56:41

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-165.D

Injection Date: 16-Sep-2016 00:48:06

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 1

Worklist Smp#: 21

Client ID:

Injection Vol: 1.0 ul

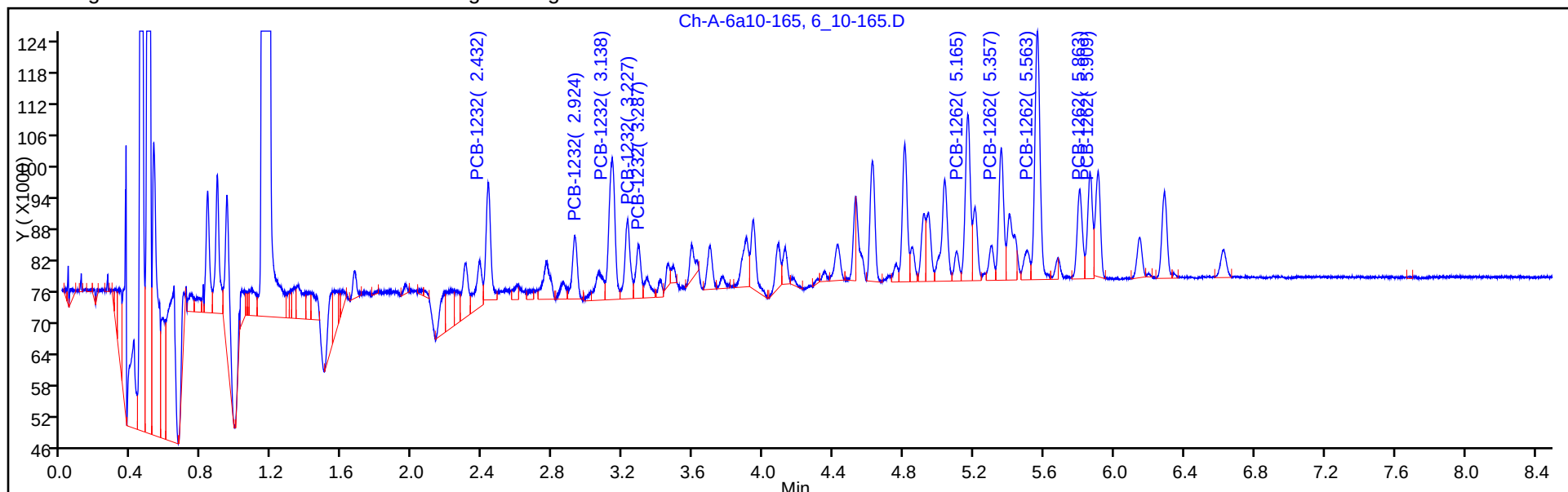
Dil. Factor: 1.0000

ALS Bottle#: 0

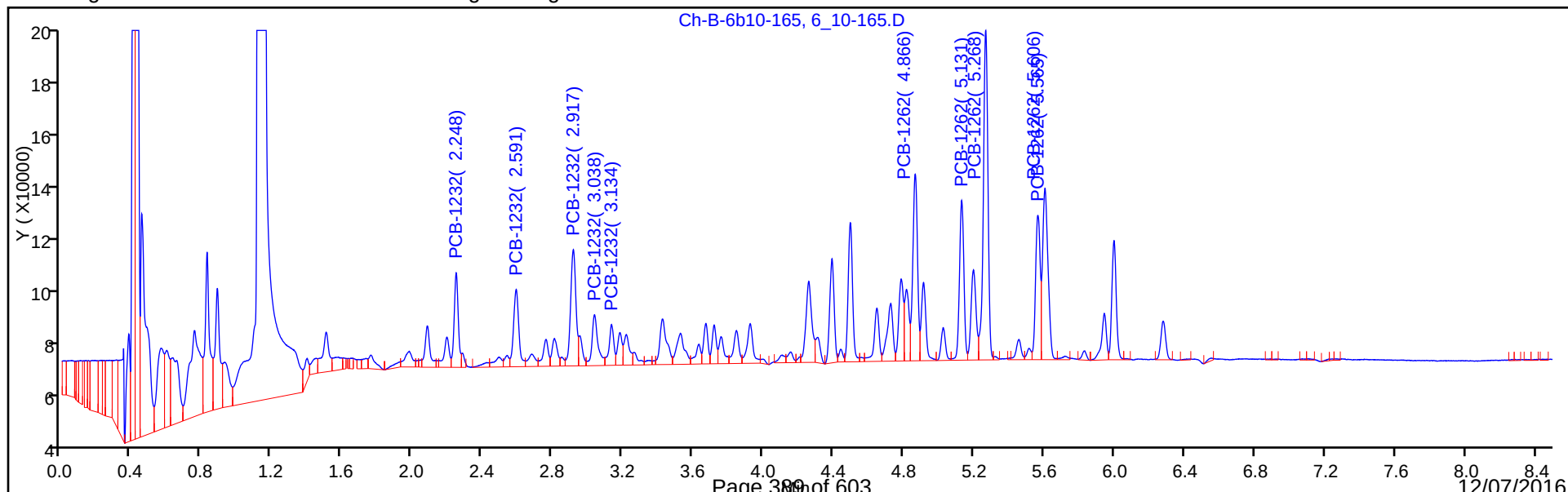
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-165.D

Injection Date: 16-Sep-2016 00:48:06

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

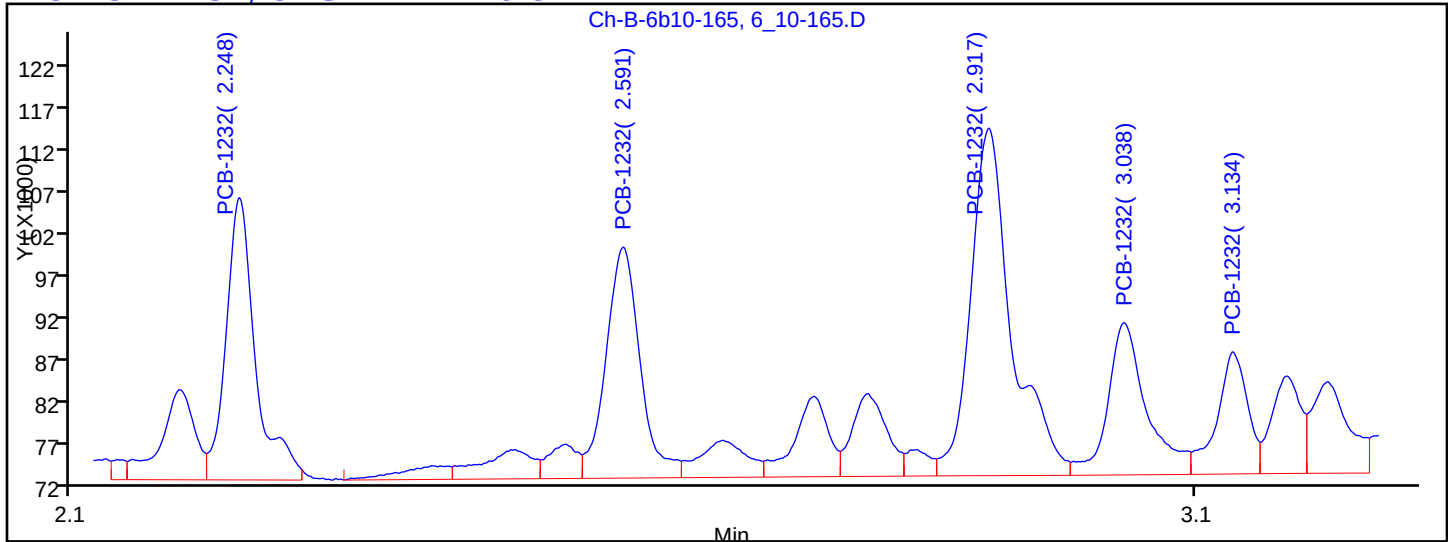
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

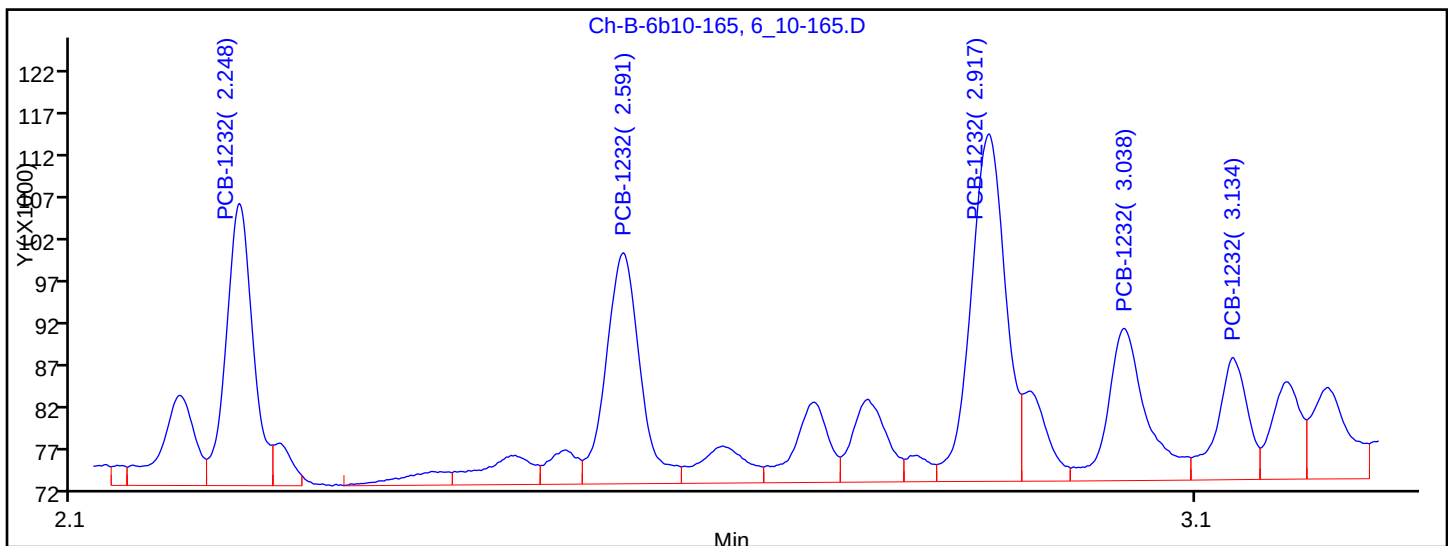
Detector Ch-B-7b136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.248	Response = 61064
2.591	Response = 58188
2.917	Response = 105010
3.038	Response = 43598
3.134	Response = 27505



Manual Integration Results

2.248	Response = 55477	M
2.591	Response = 58188	
2.917	Response = 88644	M
3.038	Response = 43598	
3.134	Response = 27505	

Reviewer: sobolk, 16-Sep-2016 21:46:56

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak
Page 390 of 603

12/07/2016

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-165.D

Injection Date: 16-Sep-2016 00:48:06

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 21

Injection Vol: 1.0 ul

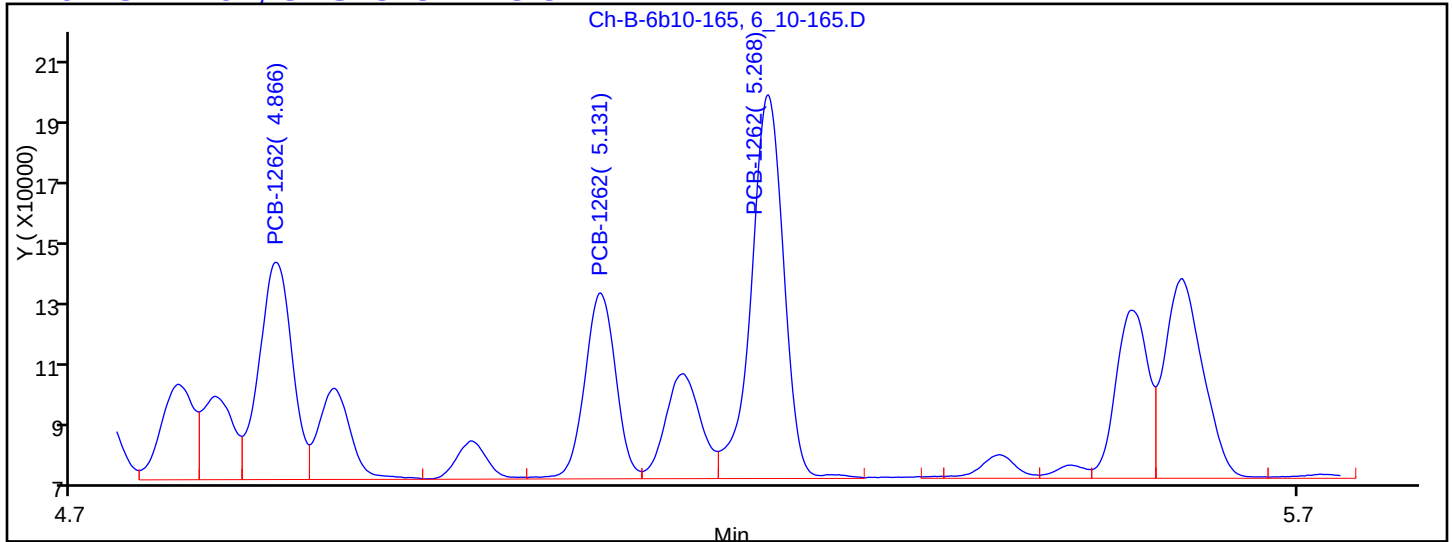
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

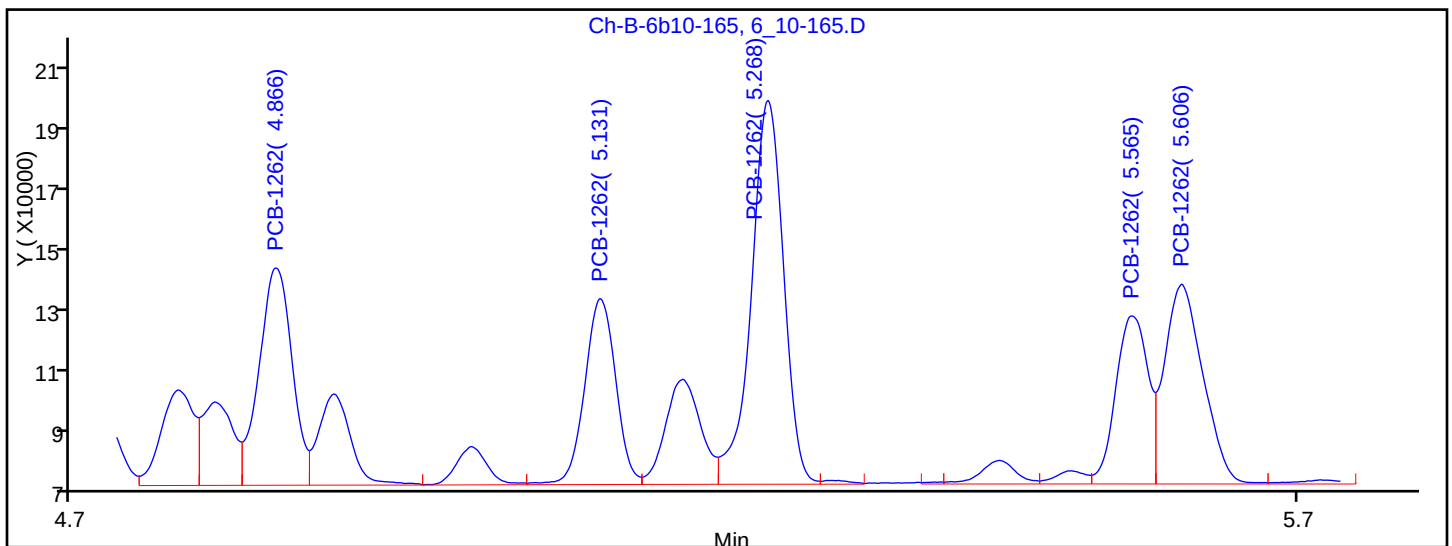
Column:

Detector Ch-B-7b136

10 PCB-1262, CAS: 37324-23-5

Processing Integration Results

4.866	Response = 123989
5.131	Response = 99929
5.268	Response = 216626
5.606	Response = 131611
0.012	Response = 16825



Manual Integration Results

4.866	Response = 123989	
5.131	Response = 99929	
5.268	Response = 214862	M
5.565	Response = 94450	M
5.606	Response = 131611	M

Reviewer: sobolk, 16-Sep-2016 21:46:31

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak
Page 391 of 603

12/07/2016

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 01:20 Calibration End Date: 09/16/2016 01:52 Calibration ID: 28365

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/25	6_10-169.D
Level 2	IC 480-320599/24	6_10-168.D
Level 3	IC 480-320599/23	6_10-167.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	0.0877	0.0673	0.0606			Ave		0.0719				19.6		20.0			
PCB-1242 Peak 2	0.0372	0.0259	0.0221			Lin1	0.0003	0.0226							0.9960		0.9900
PCB-1242 Peak 3	0.0299	0.0224	0.0193			Lin1	0.0002	0.0197							0.9970		0.9900
PCB-1242 Peak 4	0.0309	0.0227	0.0199			Lin1	0.0002	0.0202							0.9970		0.9900
PCB-1242 Peak 5	0.0281	0.0210	0.0184			Lin1	0.0002	0.0187							0.9970		0.9900
PCB-1268 Peak 1	0.0934	0.0770	0.0807			Ave		0.0837				10.3		20.0			
PCB-1268 Peak 2	0.0795	0.0660	0.0695			Ave		0.0717				9.8		20.0			
PCB-1268 Peak 3	0.0700	0.0568	0.0587			Ave		0.0619				11.5		20.0			
PCB-1268 Peak 4	0.0321	0.0242	0.0229			Ave		0.0264				18.8		20.0			
PCB-1268 Peak 5	0.1981	0.1878	0.2063			Ave		0.1974				4.7		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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 01:20 Calibration End Date: 09/16/2016 01:52 Calibration ID: 28365

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/25	6_10-169.D
Level 2	IC 480-320599/24	6_10-168.D
Level 3	IC 480-320599/23	6_10-167.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	97297	1822154	6752329			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	41260	700640	2461234			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	33158	605628	2149777			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	34249	614497	2214800			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	31183	567652	2045060			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Ave	103672	2084031	8987595			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Ave	88296	1787242	7741218			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Ave	77745	1538038	6545181			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Ave	35615	653979	2553610			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Ave	219854	5083270	22991125			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\HP6890-06\20160915-56412.b\6_10-167.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Sep-2016 01:20:05 ALS Bottle#: 0 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 23:33:41 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:56:35

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	1.164	1.166	-0.002	27855577	0.5000	0.5000	
2	1.139	1.141	-0.002	49155908	0.5000	0.5000	
RPD = 0.00							

4 PCB-1242

1	3.138	3.138	0.000	6752329	2.00	1.69	
1	3.223	3.226	-0.003	2461234	2.00	1.94	
1	3.696	3.696	0.000	2149777	2.00	1.95	
1	3.940	3.938	0.002	2214800	2.00	1.95	
1	4.084	4.087	-0.003	2045060	2.00	1.95	a
Average of Peak Amounts =							1.90
2	2.918	2.918	0.000	11890679	2.00	1.84	
2	3.037	3.038	-0.001	4426706	2.00	1.80	
2	3.424	3.426	-0.002	5439080	2.00	1.81	
2	3.672	3.673	0.000	4014950	2.00	1.90	
2	3.926	3.926	0.000	4218117	2.00	1.85	
Average of Peak Amounts =							1.84
RPD = 2.90							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-167.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

13 PCB-1268

1	5.863	5.865	-0.002	8987595	2.00	1.93	
1	5.905	5.907	-0.002	7741218	2.00	1.94	
1	6.133	6.134	-0.001	6545181	2.00	1.90	
1	6.286	6.288	-0.002	2553610	2.00	1.74	
1	6.623	6.623	0.000	22991125	2.00	2.09	

Average of Peak Amounts = 1.92

2	5.566	5.566	0.000	23244303	2.00	2.06	a
2	5.605	5.605	0.000	21426923	2.00	2.07	a
2	5.831	5.832	-0.001	18430449	2.00	2.05	
2	5.998	6.000	-0.002	7224344	2.00	1.96	
2	6.281	6.281	0.000	63201683	2.00	2.17	

Average of Peak Amounts = 2.06

RPD = 7.11

Reagents:

42-68w/IS@2.0_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 23:33:41

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-167.D

Injection Date: 16-Sep-2016 01:20:05

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 3

Worklist Smp#: 23

Client ID:

Injection Vol: 1.0 ul

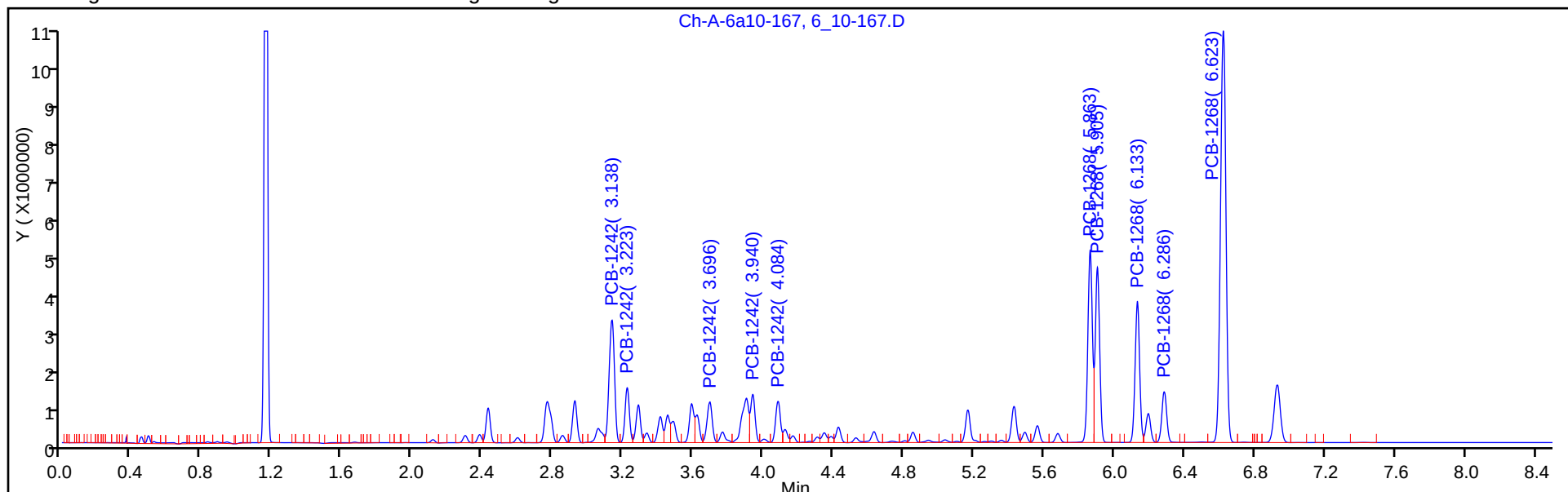
Dil. Factor: 1.0000

ALS Bottle#: 0

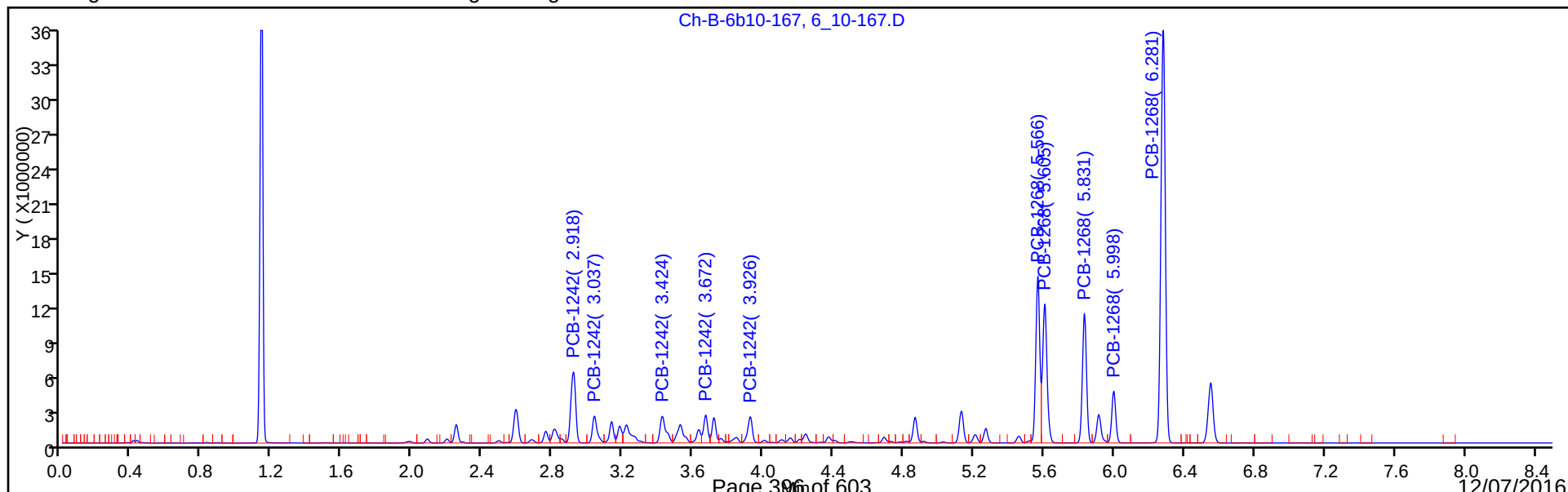
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-168.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Sep-2016 01:36:01 ALS Bottle#: 0 Worklist Smp#: 24
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 23:33:45 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk Date: 16-Sep-2016 23:26:29

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 1.164 1.166 -0.002 27063033 0.5000 0.5000 M
 2 1.138 1.141 -0.003 47593365 0.5000 0.5000
 RPD = 0.00

4 PCB-1242

1	3.136	3.138	-0.002	1822154	0.5000	0.4685
1	3.224	3.226	-0.002	700640	0.5000	0.5589
1	3.695	3.696	-0.001	605628	0.5000	0.5557
1	3.939	3.938	0.001	614497	0.5000	0.5490
1	4.084	4.087	-0.003	567652	0.5000	0.5494

Average of Peak Amounts = 0.5363

2	2.918	2.918	0.000	3022393	0.5000	0.4838
2	3.037	3.038	-0.001	1160861	0.5000	0.4877
2	3.424	3.426	-0.002	1413866	0.5000	0.4862
2	3.673	3.673	0.000	1033050	0.5000	0.5062
2	3.925	3.926	-0.001	1062946	0.5000	0.4816

Average of Peak Amounts = 0.4891

RPD = 9.21

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-168.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

13 PCB-1268

1	5.863	5.865	-0.002	2084031	0.5000	0.4601	
1	5.907	5.907	0.000	1787242	0.5000	0.4606	
1	6.133	6.134	-0.002	1538038	0.5000	0.4593	
1	6.287	6.288	-0.001	653979	0.5000	0.4578	
1	6.624	6.623	0.002	5083270	0.5000	0.4757	

Average of Peak Amounts = 0.4627

2	5.566	5.566	0.000	5453550	0.5000	0.4990	
2	5.604	5.605	-0.001	4923197	0.5000	0.4905	
2	5.831	5.832	-0.001	4304180	0.5000	0.4940	
2	5.998	6.000	-0.002	1713591	0.5000	0.4792	
2	6.282	6.281	0.001	14077588	0.5000	0.4991	

Average of Peak Amounts = 0.4923

RPD = 6.21

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00007

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 23:33:45

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-168.D

Injection Date: 16-Sep-2016 01:36:01

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 2

Worklist Smp#: 24

Client ID:

Injection Vol: 1.0 ul

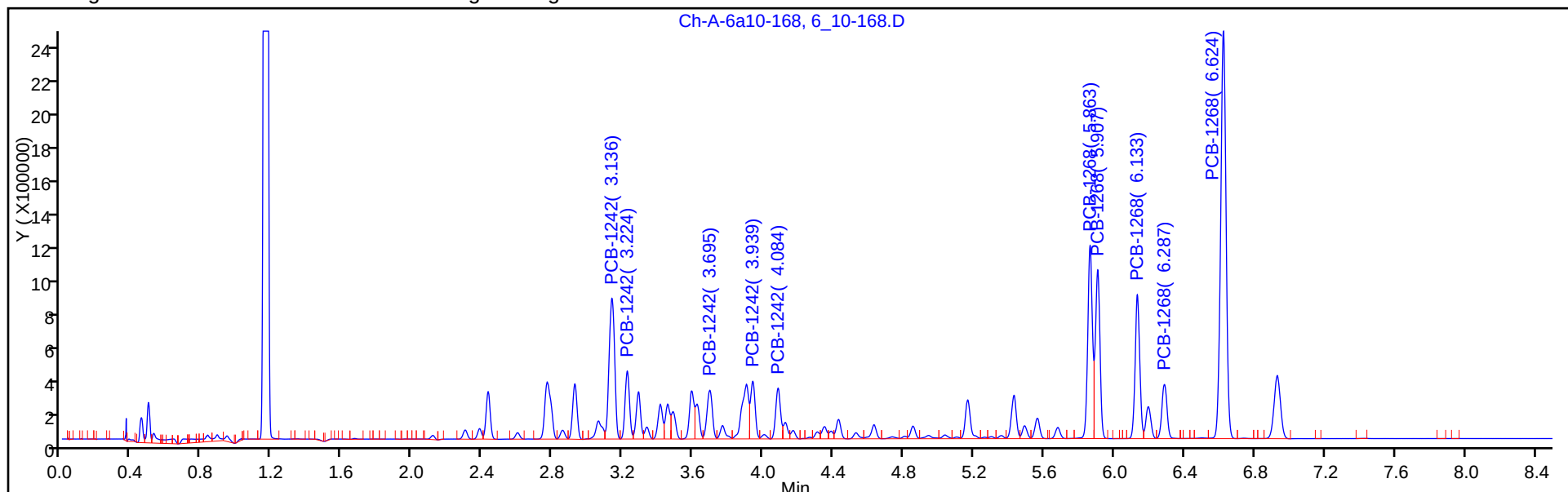
Dil. Factor: 1.0000

ALS Bottle#: 0

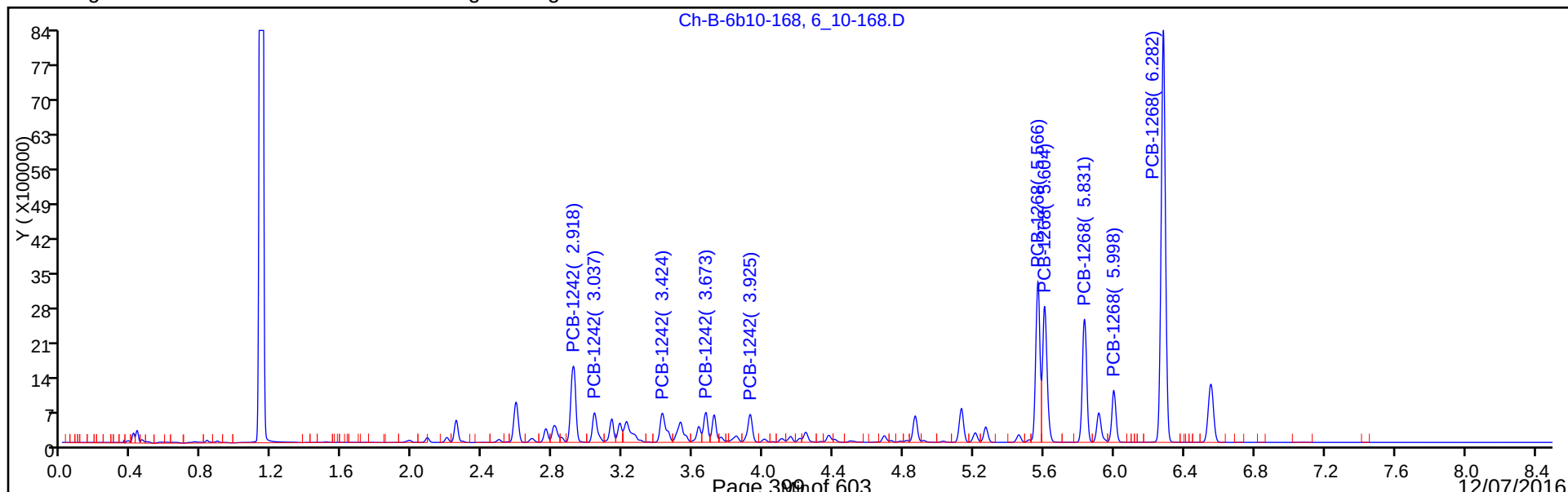
Method: 6890-6 PCB

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

Data File: \\ChromNA\\Buffalo\\ChromData\\HP6890-06\\20160915-56412.b\\6_10-168.D

Injection Date: 16-Sep-2016 01:36:01

Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

Operator ID: BufTCHROM

ALS Bottle#:

0

Worklist Smp#: 24

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 6890-6 PCB

Limit Group:

GC - 8082A PCB IS ICAL

Column:

Detector

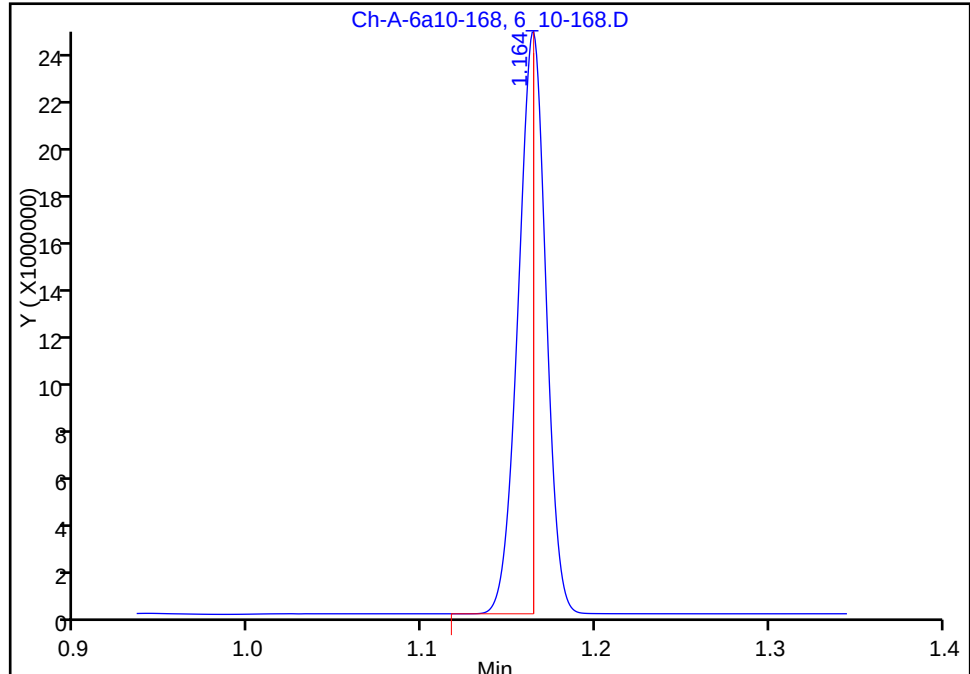
Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

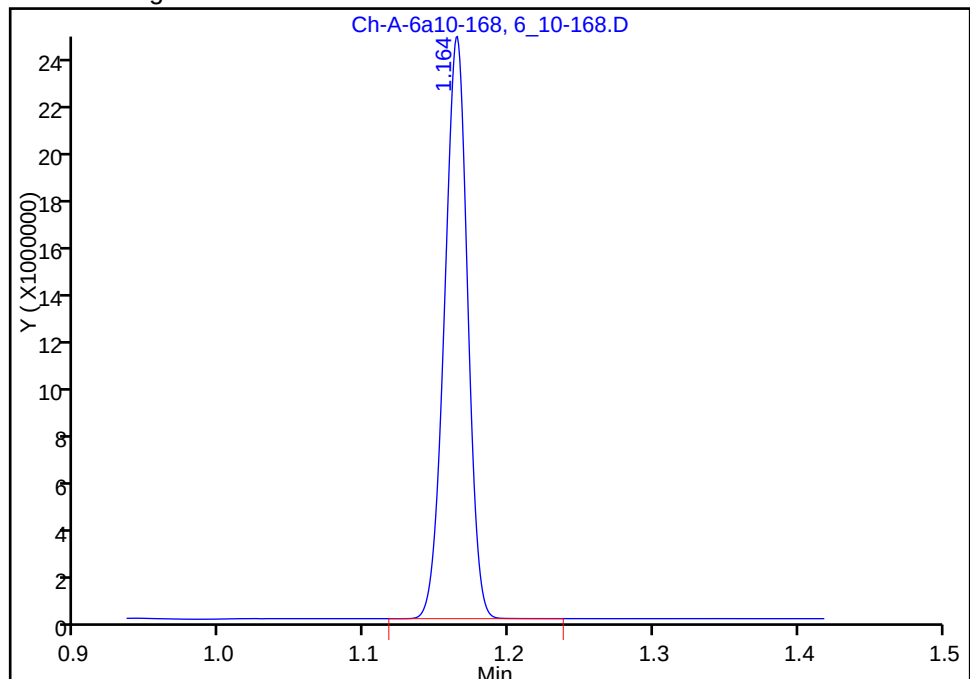
RT: 1.16
Area: 14731816
Amount: 0.500000
Amount Units: ng/uL

Processing Integration Results



RT: 1.16
Area: 27063033
Amount: 0.500000
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 16-Sep-2016 23:26:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-169.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Sep-2016 01:52:29 ALS Bottle#: 0 Worklist Smp#: 25
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 23:33:47 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 23:27:30

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	1.166	1.166	0.000	27749065	0.5000	0.5000	
2	1.141	1.141	0.000	49428331	0.5000	0.5000	

RPD = 0.00

4 PCB-1242

M

1	3.138	3.138	0.000	97297	0.0200	0.0244	M
1	3.226	3.226	0.000	41260	0.0200	0.0182	M
1	3.696	3.696	0.000	33158	0.0200	0.0183	M
1	3.938	3.938	0.000	34249	0.0200	0.0185	M
1	4.087	4.087	0.000	31183	0.0200	0.0185	M

Average of Peak Amounts =

0.0196

2	2.918	2.918	0.000	144186	0.0200	0.0222	
2	3.038	3.038	0.000	55598	0.0200	0.0225	M
2	3.426	3.426	0.000	67790	0.0200	0.0224	M
2	3.673	3.673	0.000	43891	0.0200	0.0207	M
2	3.926	3.926	0.000	50956	0.0200	0.0222	M

Average of Peak Amounts =

0.0220

RPD = 11.69

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-169.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

13 PCB-1268

1	5.865	5.865	0.000	103672	0.0200	0.0223	
1	5.907	5.907	0.000	88296	0.0200	0.0222	
1	6.134	6.134	0.000	77745	0.0200	0.0226	
1	6.288	6.288	0.000	35615	0.0200	0.0243	
1	6.623	6.623	0.000	219854	0.0200	0.0201	

Average of Peak Amounts = 0.0223

2	5.566	5.566	0.000	220760	0.0200	0.0194	
2	5.605	5.605	0.000	205467	0.0200	0.0197	
2	5.832	5.832	0.000	178767	0.0200	0.0198	
2	6.000	6.000	0.000	79017	0.0200	0.0213	
2	6.281	6.281	0.000	537366	0.0200	0.0183	

Average of Peak Amounts = 0.0197

RPD = 12.38

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 23:33:48

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-169.D

Injection Date: 16-Sep-2016 01:52:29

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 1

Worklist Smp#: 25

Client ID:

Injection Vol: 1.0 ul

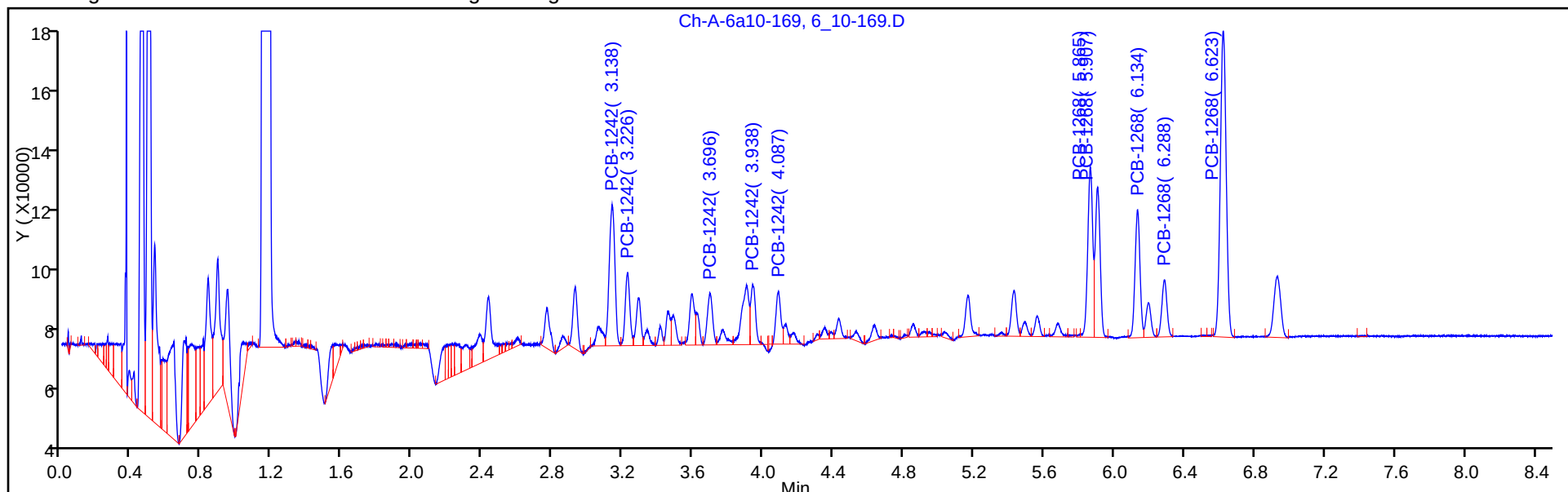
Dil. Factor: 1.0000

ALS Bottle#: 0

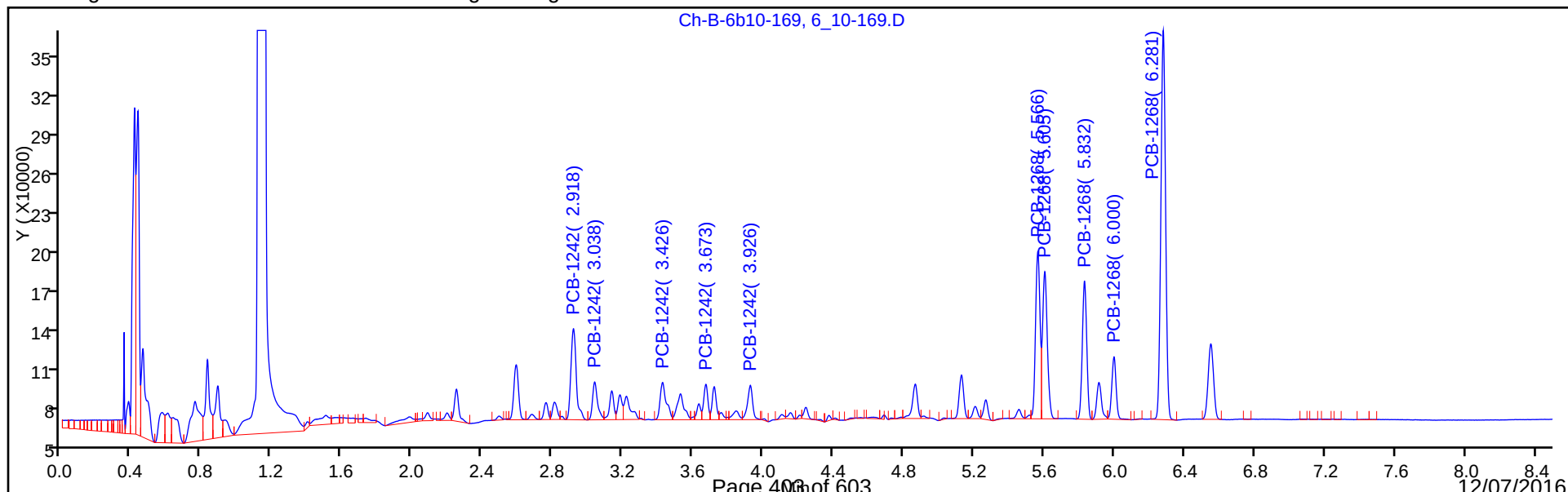
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-169.D

Injection Date: 16-Sep-2016 01:52:29

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 25

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

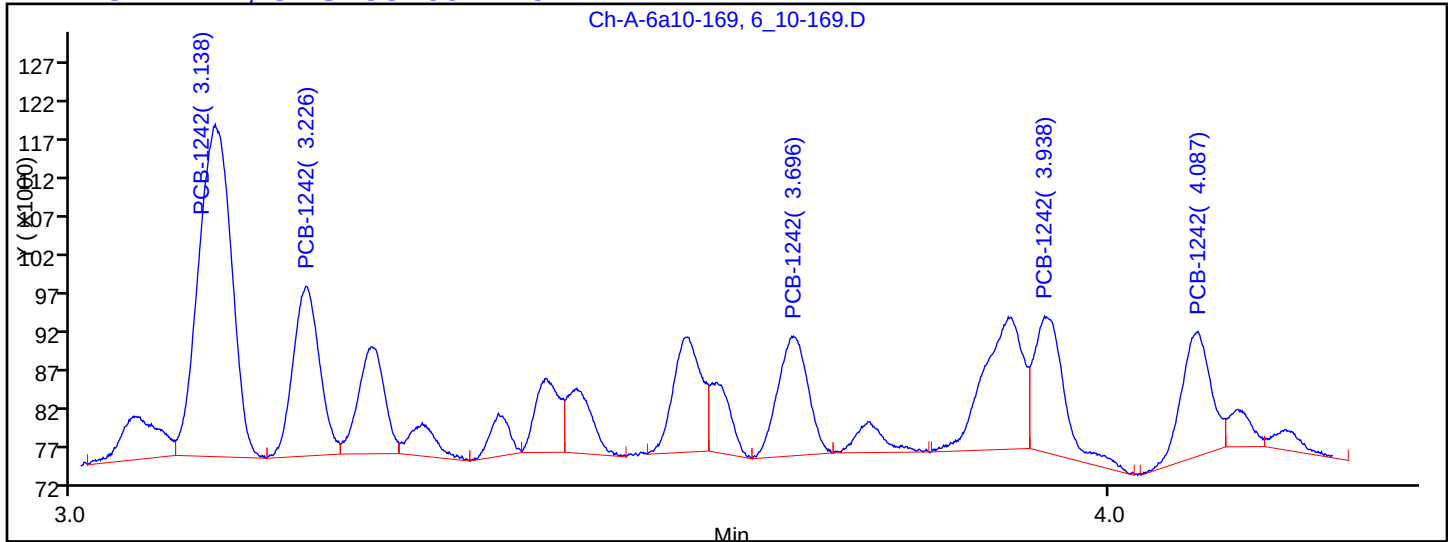
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

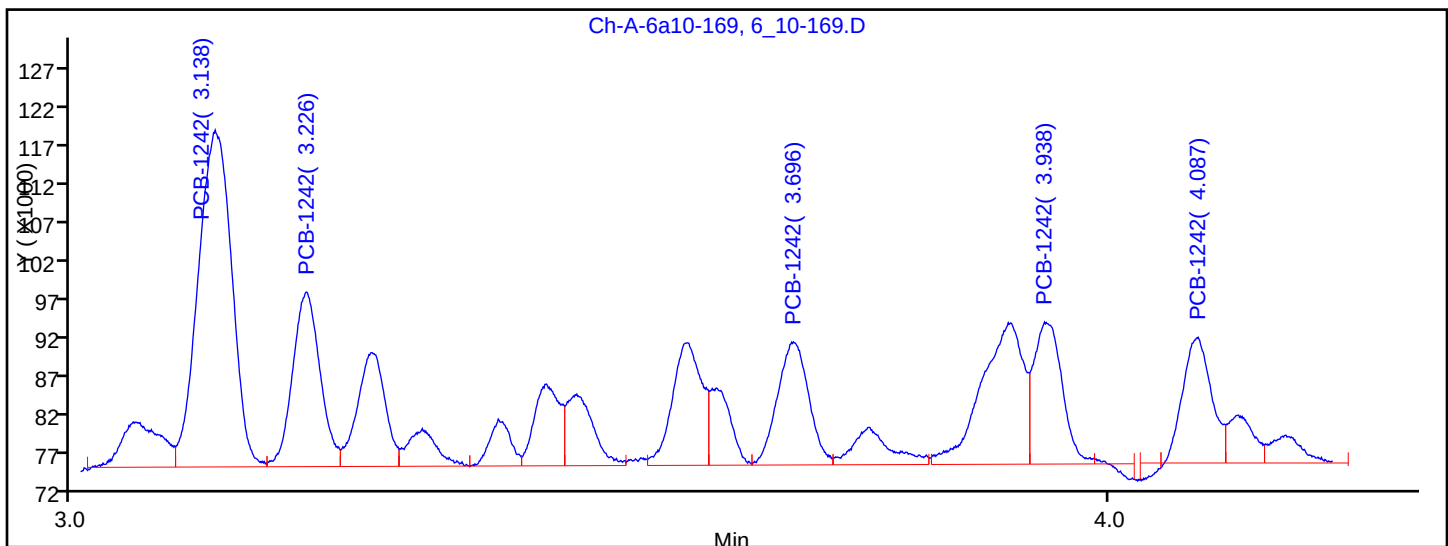
Detector Ch-A-7A136

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.138	Response = 94331
3.226	Response = 38674
3.696	Response = 31106
3.938	Response = 35625
4.087	Response = 31715



Manual Integration Results

3.138	Response = 97297	M
3.226	Response = 41260	M
3.696	Response = 33158	M
3.938	Response = 34249	M
4.087	Response = 31183	M

Reviewer: sobolk, 16-Sep-2016 23:27:30

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 404 of 603

12/07/2016

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 01:20 Calibration End Date: 09/16/2016 01:52 Calibration ID: 28366

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/25	6_10-169.D
Level 2	IC 480-320599/24	6_10-168.D
Level 3	IC 480-320599/23	6_10-167.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	0.0729	0.0635	0.0605			Ave		0.0656				9.9		20.0			
PCB-1242 Peak 2	0.0281	0.0244	0.0225			Ave		0.0250				11.4		20.0			
PCB-1242 Peak 3	0.0343	0.0297	0.0277			Ave		0.0306				11.1		20.0			
PCB-1242 Peak 4	0.0222	0.0217	0.0204			Ave		0.0214				4.3		20.0			
PCB-1242 Peak 5	0.0258	0.0223	0.0215			Ave		0.0232				9.8		20.0			
PCB-1268 Peak 1	0.1117	0.1146	0.1182			Ave		0.1148				2.9		20.0			
PCB-1268 Peak 2	0.1039	0.1034	0.1090			Ave		0.1054				2.9		20.0			
PCB-1268 Peak 3	0.0904	0.0904	0.0937			Ave		0.0915				2.1		20.0			
PCB-1268 Peak 4	0.0400	0.0360	0.0367			Ave		0.0376				5.6		20.0			
PCB-1268 Peak 5	0.2718	0.2958	0.3214			Ave		0.2963				8.4		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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 01:20 Calibration End Date: 09/16/2016 01:52 Calibration ID: 28366

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/25	6_10-169.D
Level 2	IC 480-320599/24	6_10-168.D
Level 3	IC 480-320599/23	6_10-167.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	144186	3022393	11890679			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Ave	55598	1160861	4426706			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Ave	67790	1413866	5439080			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Ave	43891	1033050	4014950			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Ave	50956	1062946	4218117			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Ave	220760	5453550	23244303			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Ave	205467	4923197	21426923			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Ave	178767	4304180	18430449			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Ave	79017	1713591	7224344			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Ave	537366	14077588	63201683			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-167.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Sep-2016 01:20:05 ALS Bottle#: 0 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 23:33:41 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:56:35

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	1.164	1.166	-0.002	27855577	0.5000	0.5000
2	1.139	1.141	-0.002	49155908	0.5000	0.5000

RPD = 0.00

4 PCB-1242

1	3.138	3.138	0.000	6752329	2.00	1.69
1	3.223	3.226	-0.003	2461234	2.00	1.94
1	3.696	3.696	0.000	2149777	2.00	1.95
1	3.940	3.938	0.002	2214800	2.00	1.95
1	4.084	4.087	-0.003	2045060	2.00	1.95 a

Average of Peak Amounts = 1.90

2	2.918	2.918	0.000	11890679	2.00	1.84
2	3.037	3.038	-0.001	4426706	2.00	1.80
2	3.424	3.426	-0.002	5439080	2.00	1.81
2	3.672	3.673	0.000	4014950	2.00	1.90
2	3.926	3.926	0.000	4218117	2.00	1.85

Average of Peak Amounts = 1.84

RPD = 2.90

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-167.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

13 PCB-1268

1	5.863	5.865	-0.002	8987595	2.00	1.93	
1	5.905	5.907	-0.002	7741218	2.00	1.94	
1	6.133	6.134	-0.001	6545181	2.00	1.90	
1	6.286	6.288	-0.002	2553610	2.00	1.74	
1	6.623	6.623	0.000	22991125	2.00	2.09	

Average of Peak Amounts = 1.92

2	5.566	5.566	0.000	23244303	2.00	2.06	a
2	5.605	5.605	0.000	21426923	2.00	2.07	a
2	5.831	5.832	-0.001	18430449	2.00	2.05	
2	5.998	6.000	-0.002	7224344	2.00	1.96	
2	6.281	6.281	0.000	63201683	2.00	2.17	

Average of Peak Amounts = 2.06

RPD = 7.11

Reagents:

42-68w/IS@2.0_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 23:33:42

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-167.D

Injection Date: 16-Sep-2016 01:20:05

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 3

Worklist Smp#: 23

Client ID:

Injection Vol: 1.0 ul

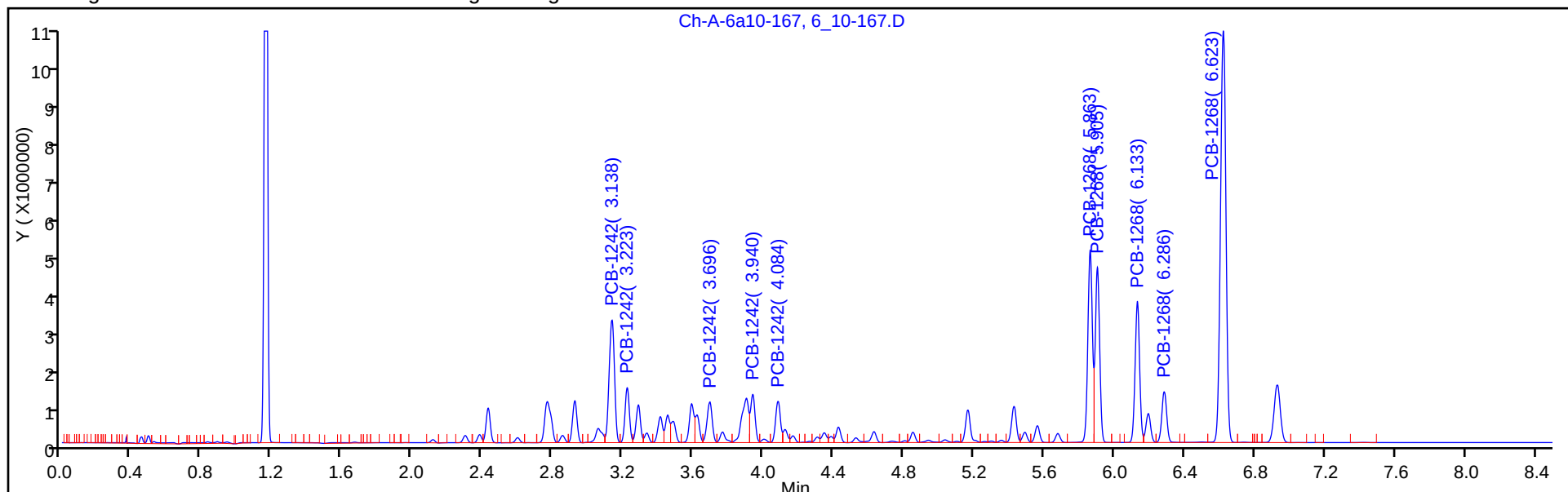
Dil. Factor: 1.0000

ALS Bottle#: 0

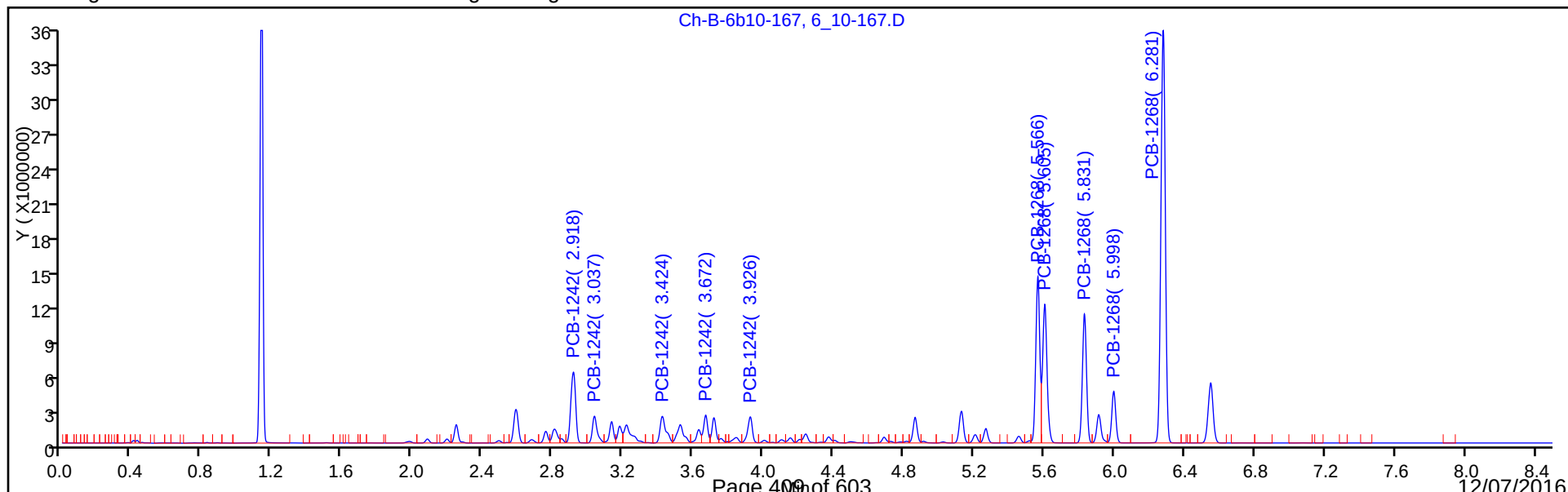
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-168.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Sep-2016 01:36:01 ALS Bottle#: 0 Worklist Smp#: 24
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 23:33:45 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 23:26:29

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 1.164 1.166 -0.002 27063033 0.5000 0.5000 M
 2 1.138 1.141 -0.003 47593365 0.5000 0.5000
 RPD = 0.00

4 PCB-1242

1	3.136	3.138	-0.002	1822154	0.5000	0.4685
1	3.224	3.226	-0.002	700640	0.5000	0.5589
1	3.695	3.696	-0.001	605628	0.5000	0.5557
1	3.939	3.938	0.001	614497	0.5000	0.5490
1	4.084	4.087	-0.003	567652	0.5000	0.5494

Average of Peak Amounts = 0.5363

2	2.918	2.918	0.000	3022393	0.5000	0.4838
2	3.037	3.038	-0.001	1160861	0.5000	0.4877
2	3.424	3.426	-0.002	1413866	0.5000	0.4862
2	3.673	3.673	0.000	1033050	0.5000	0.5062
2	3.925	3.926	-0.001	1062946	0.5000	0.4816

Average of Peak Amounts = 0.4891

RPD = 9.21

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-168.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

13 PCB-1268

1	5.863	5.865	-0.002	2084031	0.5000	0.4601	
1	5.907	5.907	0.000	1787242	0.5000	0.4606	
1	6.133	6.134	-0.002	1538038	0.5000	0.4593	
1	6.287	6.288	-0.001	653979	0.5000	0.4578	
1	6.624	6.623	0.002	5083270	0.5000	0.4757	

Average of Peak Amounts = 0.4627

2	5.566	5.566	0.000	5453550	0.5000	0.4990	
2	5.604	5.605	-0.001	4923197	0.5000	0.4905	
2	5.831	5.832	-0.001	4304180	0.5000	0.4940	
2	5.998	6.000	-0.002	1713591	0.5000	0.4792	
2	6.282	6.281	0.001	14077588	0.5000	0.4991	

Average of Peak Amounts = 0.4923

RPD = 6.21

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00007

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 23:33:45

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-168.D

Injection Date: 16-Sep-2016 01:36:01

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 2

Worklist Smp#: 24

Client ID:

Injection Vol: 1.0 ul

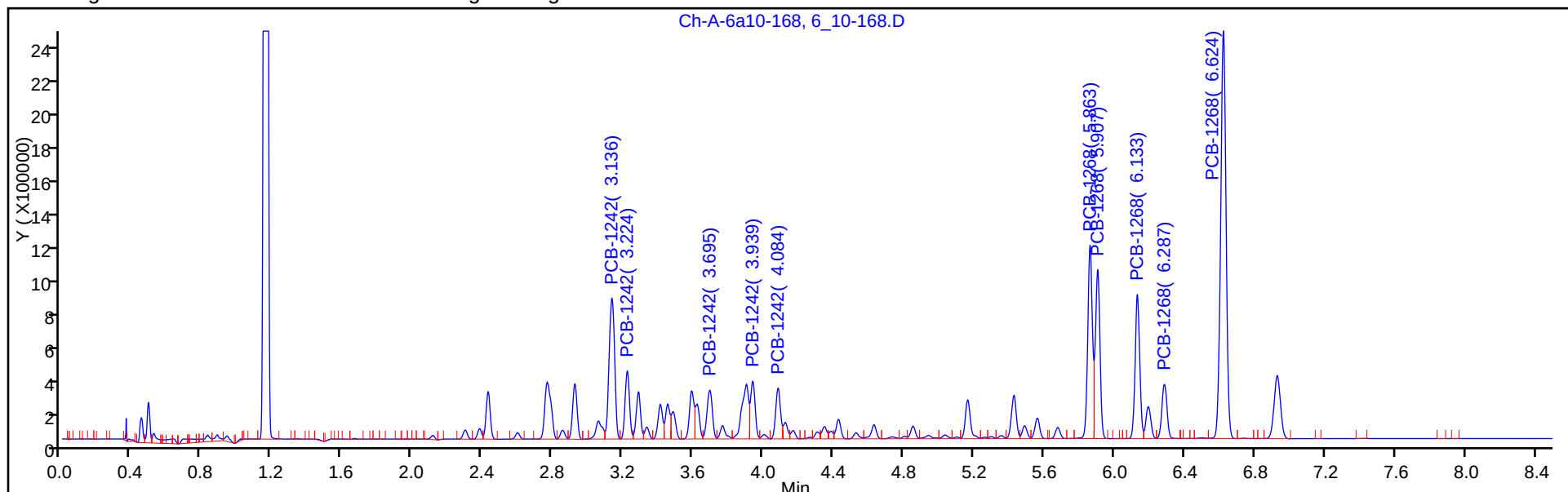
Dil. Factor: 1.0000

ALS Bottle#: 0

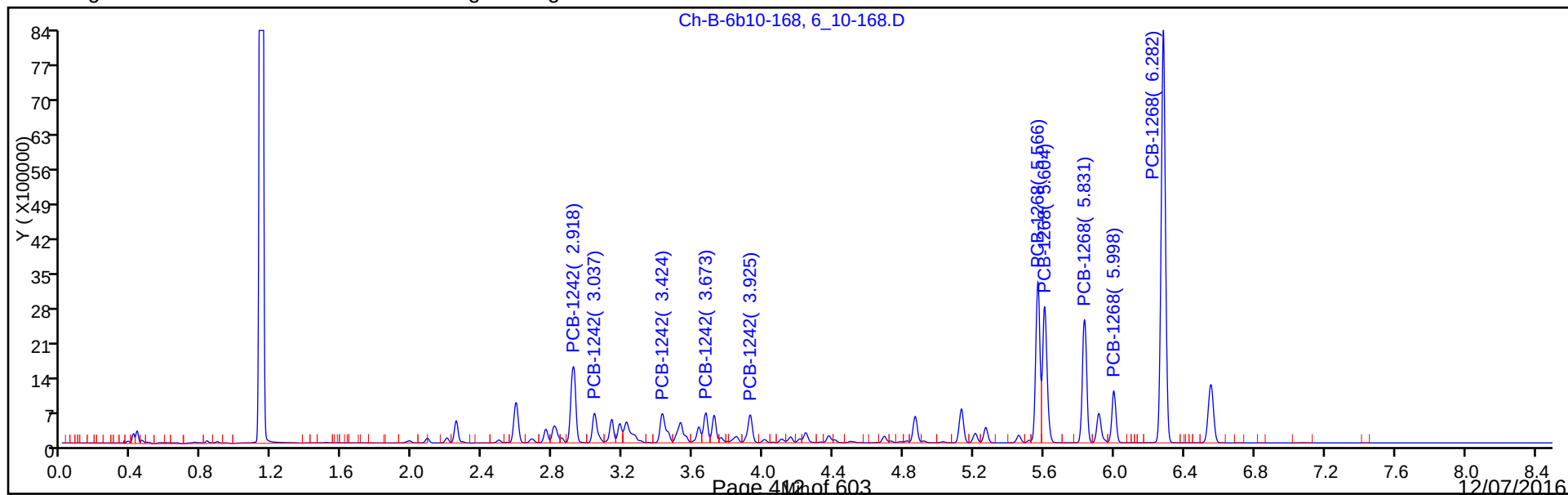
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-169.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Sep-2016 01:52:29 ALS Bottle#: 0 Worklist Smp#: 25
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 16-Sep-2016 23:33:47 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 16-Sep-2016 23:27:30

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	1.166	1.166	0.000	27749065	0.5000	0.5000	
2	1.141	1.141	0.000	49428331	0.5000	0.5000	

RPD = 0.00

4 PCB-1242

M

1	3.138	3.138	0.000	97297	0.0200	0.0244	M
1	3.226	3.226	0.000	41260	0.0200	0.0182	M
1	3.696	3.696	0.000	33158	0.0200	0.0183	M
1	3.938	3.938	0.000	34249	0.0200	0.0185	M
1	4.087	4.087	0.000	31183	0.0200	0.0185	M

Average of Peak Amounts =

0.0196

2	2.918	2.918	0.000	144186	0.0200	0.0222	
2	3.038	3.038	0.000	55598	0.0200	0.0225	M
2	3.426	3.426	0.000	67790	0.0200	0.0224	M
2	3.673	3.673	0.000	43891	0.0200	0.0207	M
2	3.926	3.926	0.000	50956	0.0200	0.0222	M

Average of Peak Amounts =

0.0220

RPD = 11.69

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-169.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

13 PCB-1268

1	5.865	5.865	0.000	103672	0.0200	0.0223	
1	5.907	5.907	0.000	88296	0.0200	0.0222	
1	6.134	6.134	0.000	77745	0.0200	0.0226	
1	6.288	6.288	0.000	35615	0.0200	0.0243	
1	6.623	6.623	0.000	219854	0.0200	0.0201	

Average of Peak Amounts = 0.0223

2	5.566	5.566	0.000	220760	0.0200	0.0194	
2	5.605	5.605	0.000	205467	0.0200	0.0197	
2	5.832	5.832	0.000	178767	0.0200	0.0198	
2	6.000	6.000	0.000	79017	0.0200	0.0213	
2	6.281	6.281	0.000	537366	0.0200	0.0183	

Average of Peak Amounts = 0.0197

RPD = 12.38

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00004

Amount Added: 0.25

Units: mL

Report Date: 16-Sep-2016 23:33:48

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-169.D

Injection Date: 16-Sep-2016 01:52:29

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 1

Worklist Smp#: 25

Client ID:

Injection Vol: 1.0 ul

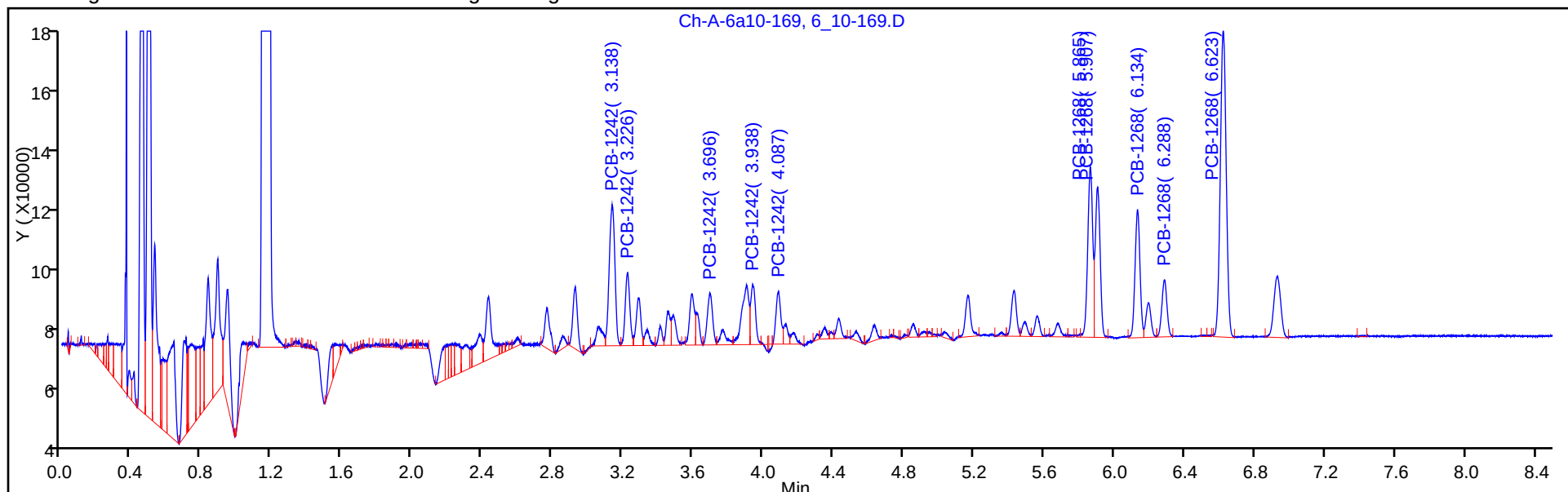
Dil. Factor: 1.0000

ALS Bottle#: 0

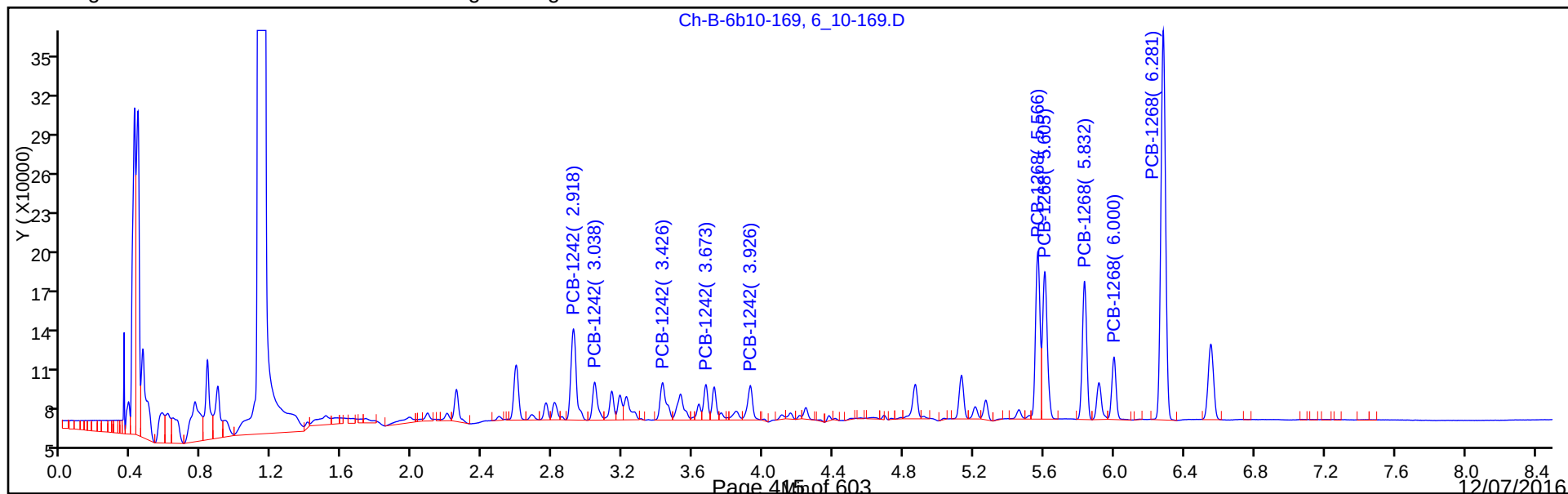
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-169.D

Injection Date: 16-Sep-2016 01:52:29

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 25

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

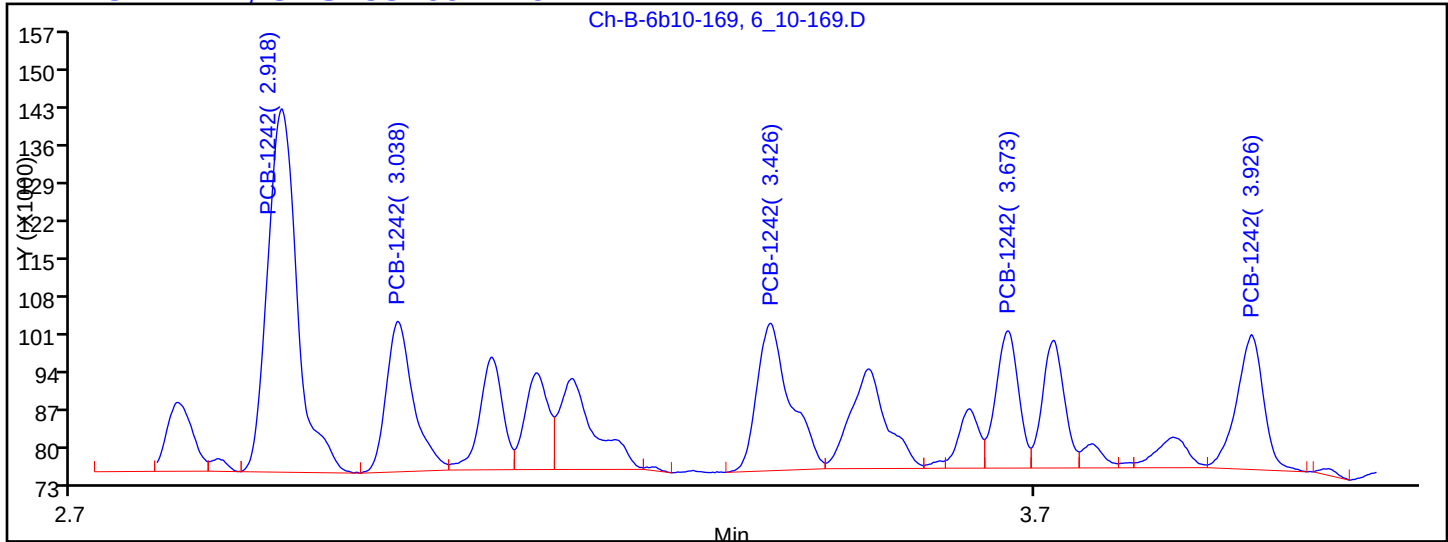
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

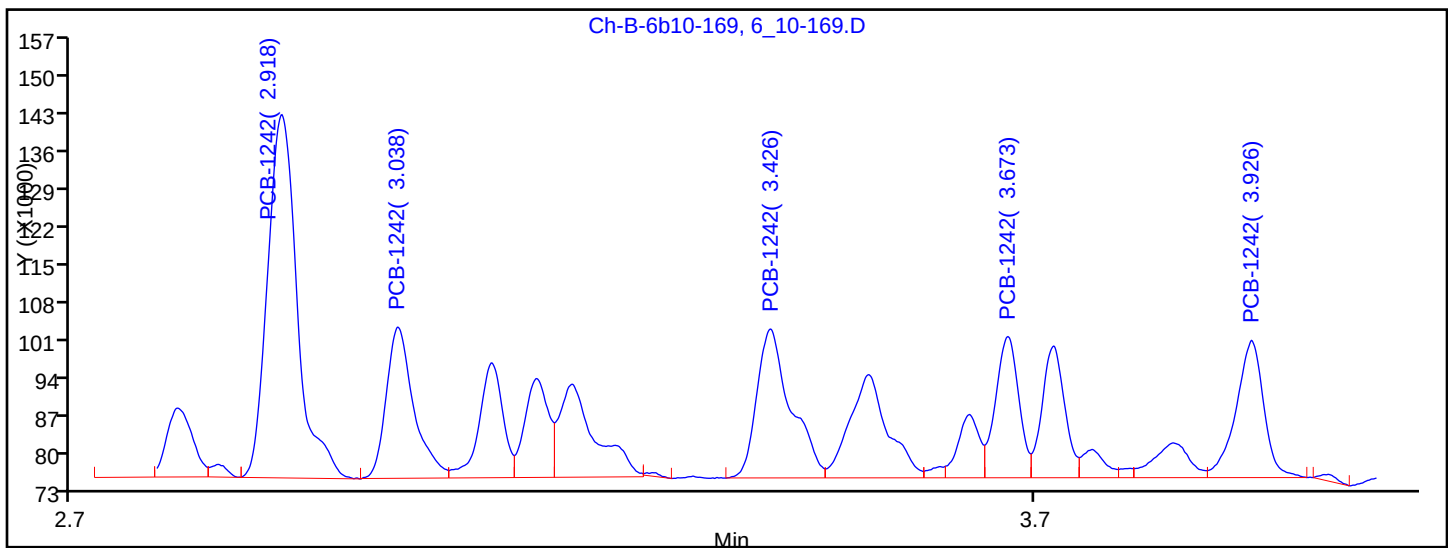
Detector Ch-B-7b136

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

2.918	Response = 144186
3.038	Response = 54647
3.426	Response = 65902
3.673	Response = 41771
3.926	Response = 48541



Manual Integration Results

2.918	Response = 144186	
3.038	Response = 55598	M
3.426	Response = 67790	M
3.673	Response = 43891	M
3.926	Response = 50956	M

Reviewer: sobolk, 16-Sep-2016 23:27:30

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 416 of 603

12/07/2016

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 02:24 Calibration End Date: 09/16/2016 02:56 Calibration ID: 28379

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/29	6_10-173.D
Level 2	IC 480-320599/28	6_10-172.D
Level 3	IC 480-320599/27	6_10-171.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	0.0264	0.0233	0.0189			Ave		0.0229				16.6		20.0			
PCB-1248 Peak 2	0.0460	0.0313	0.0276			Lin1	0.0004	0.0280							0.9980		0.9900
PCB-1248 Peak 3	0.0741	0.0499	0.0455			Lin1	0.0006	0.0459							0.9990		0.9900
PCB-1248 Peak 4	0.0513	0.0366	0.0334			Lin1	0.0004	0.0337							0.9990		0.9900
PCB-1248 Peak 5	0.0422	0.0297	0.0272			Lin1	0.0003	0.0274							0.9990		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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 02:24 Calibration End Date: 09/16/2016 02:56 Calibration ID: 28379

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/29	6_10-173.D
Level 2	IC 480-320599/28	6_10-172.D
Level 3	IC 480-320599/27	6_10-171.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	Ave	30751	657839	2187969			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Lin1	53446	882589	3201316			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Lin1	86142	1406342	5271311			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Lin1	59588	1032978	3869053			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Lin1	49107	837772	3151834			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\HP6890-06\20160915-56412.b\6_10-171.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Sep-2016 02:24:19 ALS Bottle#: 0 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 19-Sep-2016 18:49:32 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK053

First Level Reviewer: sobolk Date: 16-Sep-2016 21:58:34

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	1.165	1.165	0.000	28950335	0.5000	0.5000	
2	1.140	1.140	0.000	51000563	0.5000	0.5000	
RPD = 0.00							

7 PCB-1248

1	3.414	3.413	0.002	2187969	2.00	1.65	a
1	3.695	3.693	0.002	3201316	2.00	1.96	
1	3.903	3.901	0.002	5271311	2.00	1.97	a
1	3.942	3.941	0.001	3869053	2.00	1.97	a
1	4.083	4.084	-0.001	3151834	2.00	1.97	a
Average of Peak Amounts =						1.90	
2	3.182	3.182	0.000	4434907	2.00	1.74	
2	3.423	3.423	0.000	7516826	2.00	1.78	
2	3.671	3.671	0.000	6926880	2.00	1.87	
2	3.719	3.719	0.000	5519782	2.00	1.87	
2	3.925	3.923	0.002	6928902	2.00	1.85	
Average of Peak Amounts =						1.82	
RPD = 4.37							

Reagents:

1248w/IS@ 2.0_00004

Amount Added: 0.25

Units: mL

Report Date: 19-Sep-2016 18:49:33

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-171.D

Injection Date: 16-Sep-2016 02:24:19

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 3

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 ul

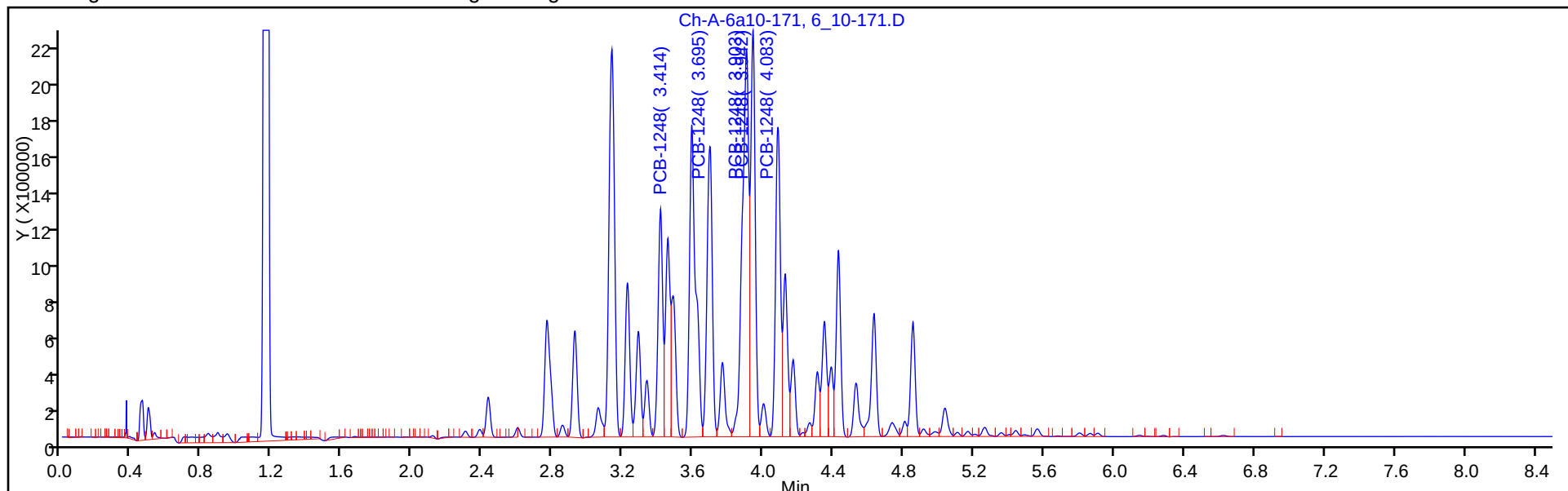
Dil. Factor: 1.0000

ALS Bottle#: 0

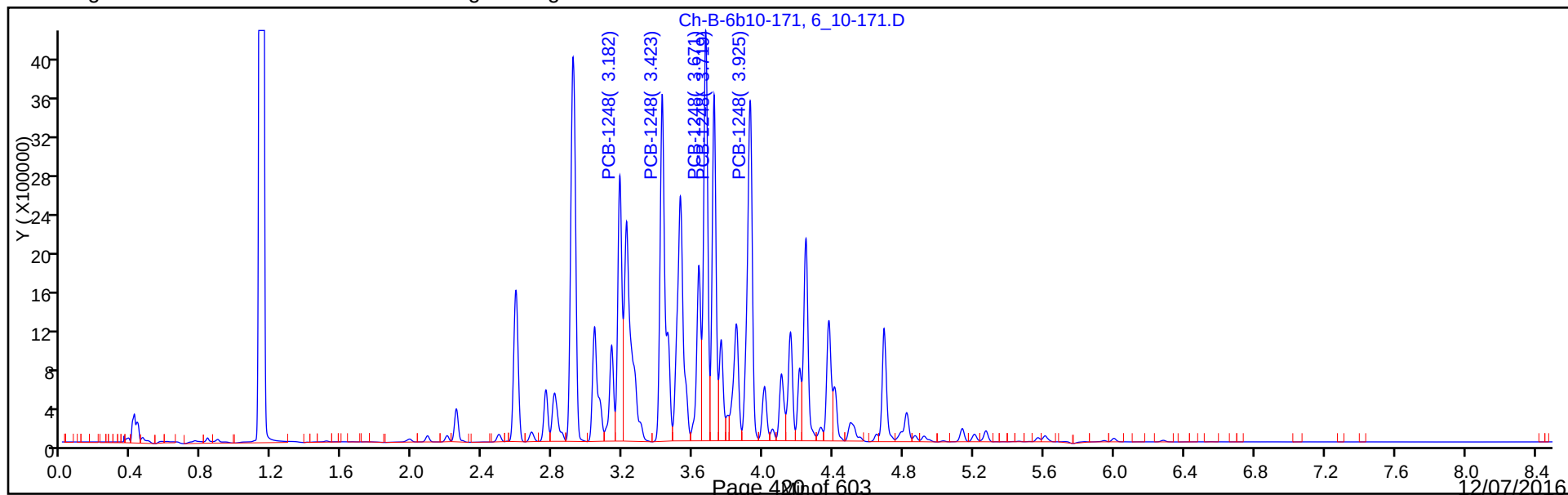
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-172.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Sep-2016 02:40:17 ALS Bottle#: 0 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 19-Sep-2016 18:49:37 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK053

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	1.164	1.165	-0.001	28202725	0.5000	0.5000	
2	1.139	1.140	-0.001	49285202	0.5000	0.5000	

RPD = 0.00

7 PCB-1248

1	3.413	3.413	0.000	657839	0.5000	0.5095	
1	3.695	3.693	0.002	882589	0.5000	0.5439	
1	3.905	3.901	0.004	1406342	0.5000	0.5301	
1	3.941	3.941	0.000	1032978	0.5000	0.5315	
1	4.083	4.084	-0.002	837772	0.5000	0.5294	
Average of Peak Amounts =						0.5289	
2	3.182	3.182	0.000	1175876	0.5000	0.4782	
2	3.423	3.423	0.000	1951131	0.5000	0.4775	
2	3.673	3.671	0.001	1757964	0.5000	0.4920	
2	3.720	3.719	0.001	1377790	0.5000	0.4830	
2	3.925	3.923	0.002	1730423	0.5000	0.4777	
Average of Peak Amounts =						0.4817	

RPD = 9.34

Reagents:

1248w/IS@ 0.5_00007

Amount Added: 0.25

Units: mL

Report Date: 19-Sep-2016 18:49:38

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-172.D

Injection Date: 16-Sep-2016 02:40:17

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 2

Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul

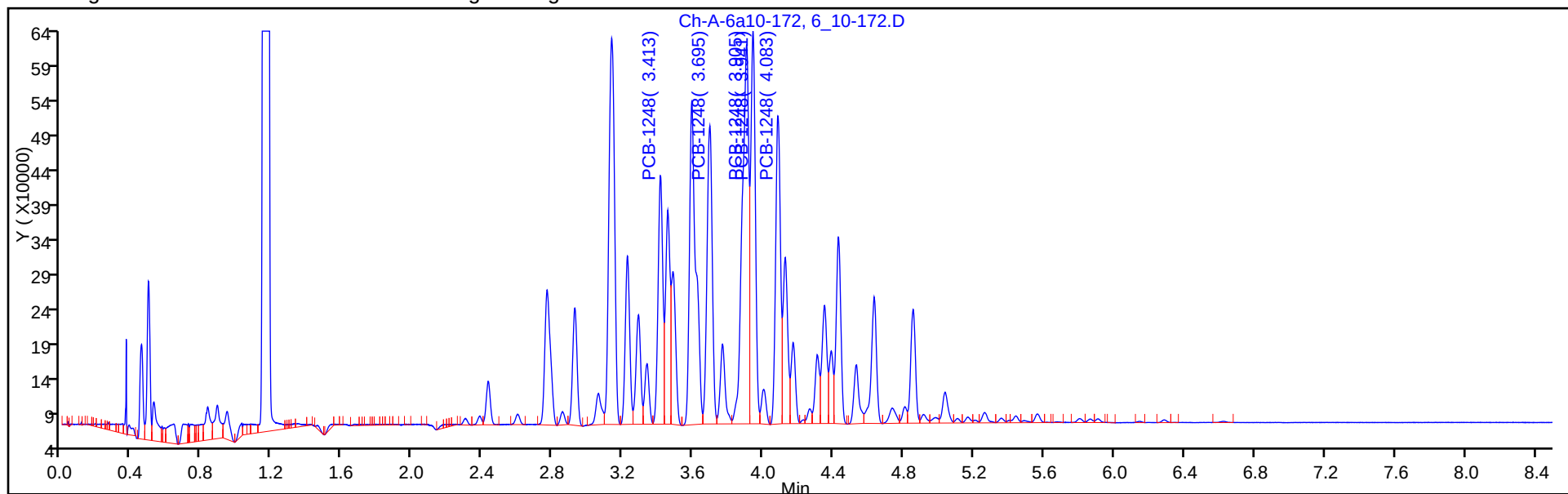
Dil. Factor: 1.0000

ALS Bottle#: 0

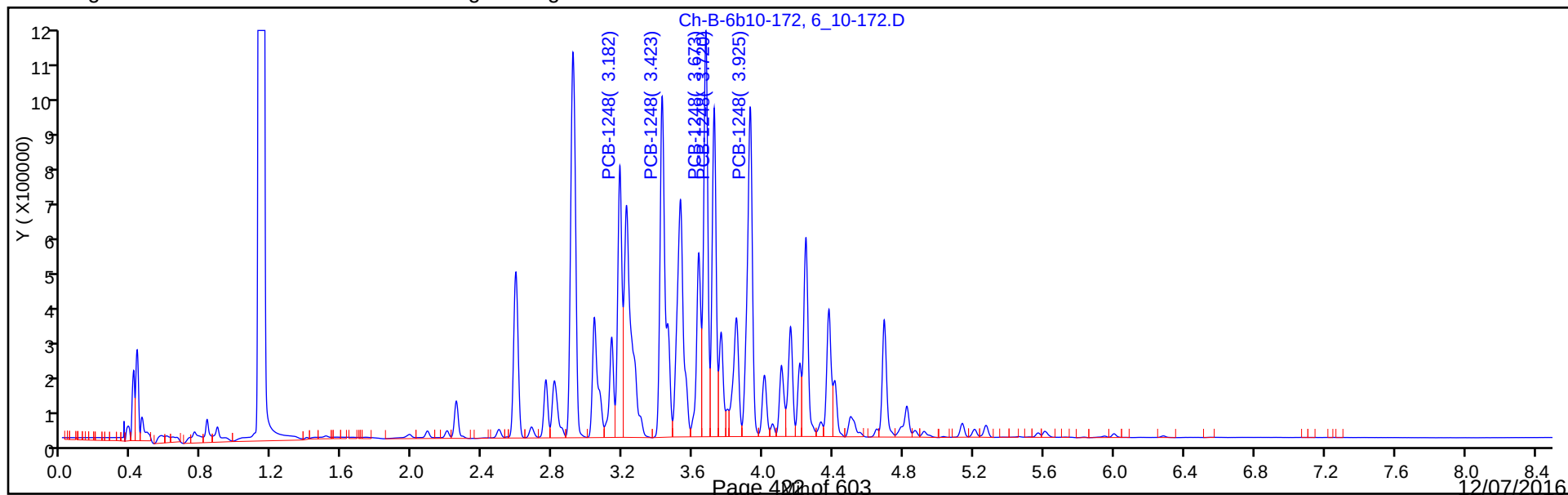
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-173.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Sep-2016 02:56:24 ALS Bottle#: 0 Worklist Smp#: 29
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 19-Sep-2016 18:49:41 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK053

First Level Reviewer: sobolk

Date: 19-Sep-2016 18:48:31

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	1.165	1.165	0.000	29066831	0.5000	0.5000	
2	1.140	1.140	0.000	51101229	0.5000	0.5000	

RPD = 0.00

7 PCB-1248

1	3.413	3.413	0.000	30751	0.0200	0.0231	M
1	3.693	3.693	0.000	53446	0.0200	0.0187	M
1	3.901	3.901	0.000	86142	0.0200	0.0191	M
1	3.941	3.941	0.000	59588	0.0200	0.0190	M
1	4.084	4.084	0.000	49107	0.0200	0.0191	M

Average of Peak Amounts = 0.0198

2	3.182	3.182	0.000	59782	0.0200	0.0234	
2	3.423	3.423	0.000	97944	0.0200	0.0231	
2	3.671	3.671	0.000	79969	0.0200	0.0216	
2	3.719	3.719	0.000	64995	0.0200	0.0220	
2	3.923	3.923	0.000	84152	0.0200	0.0224	

Average of Peak Amounts = 0.0225

RPD = 12.78

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1248w/IS@ .02_00004

Amount Added: 0.25

Units: mL

Report Date: 19-Sep-2016 18:49:41

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D

Injection Date: 16-Sep-2016 02:56:24

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 1

Worklist Smp#: 29

Client ID:

Injection Vol: 1.0 ul

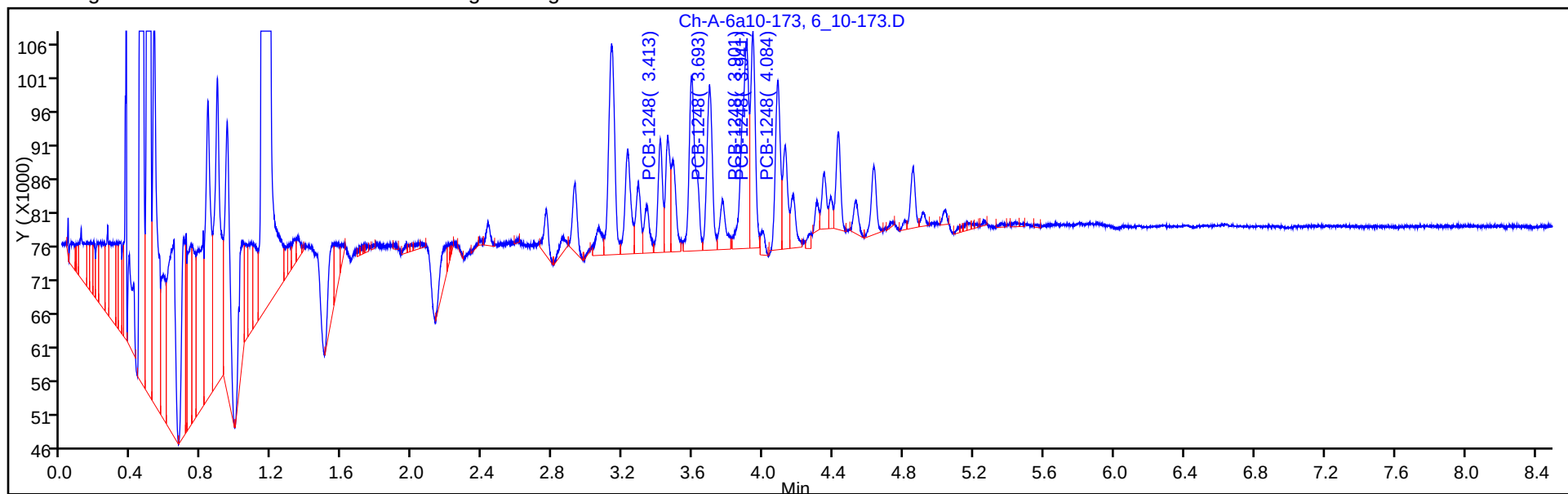
Dil. Factor: 1.0000

ALS Bottle#: 0

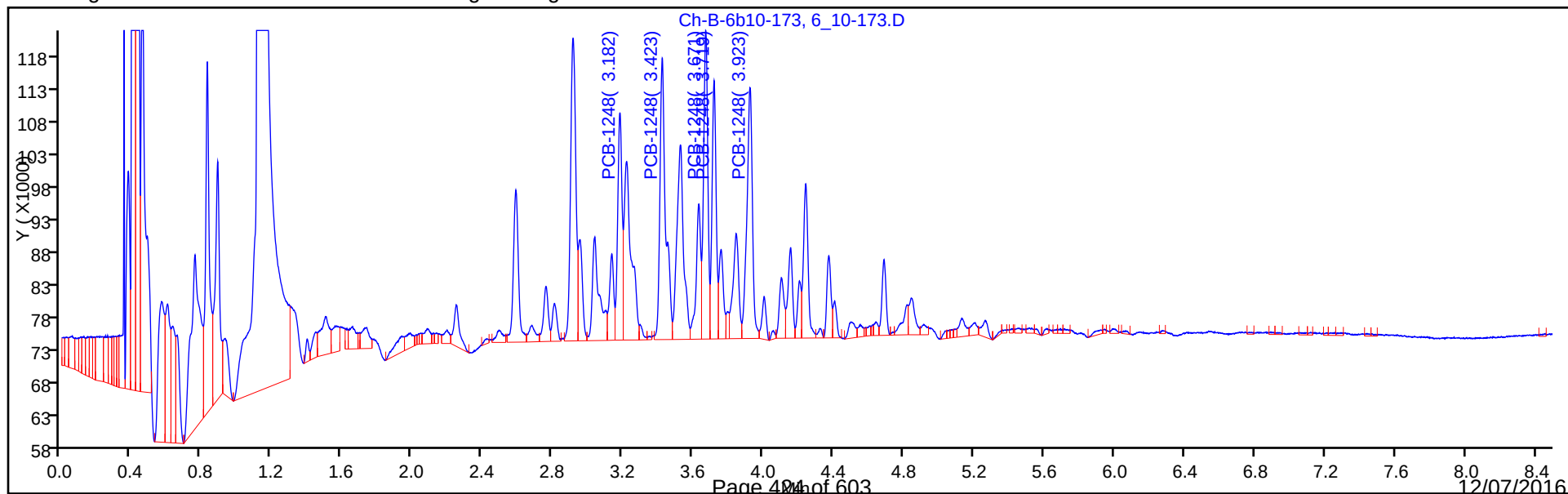
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D

Injection Date: 16-Sep-2016 02:56:24

Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 29

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

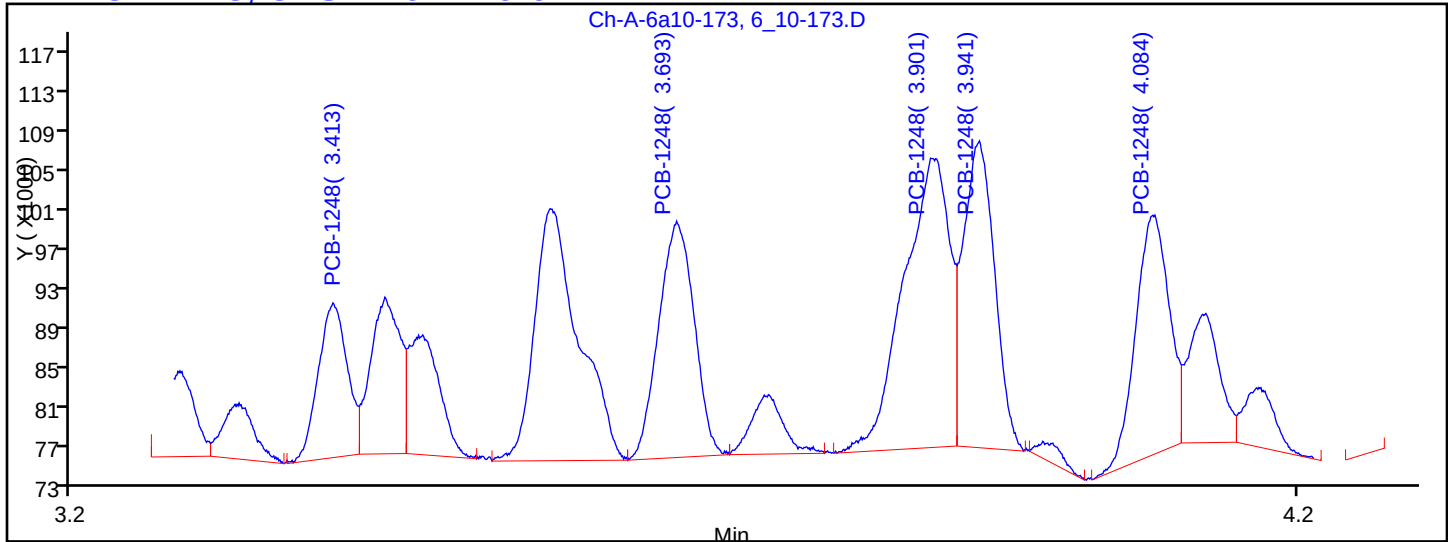
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

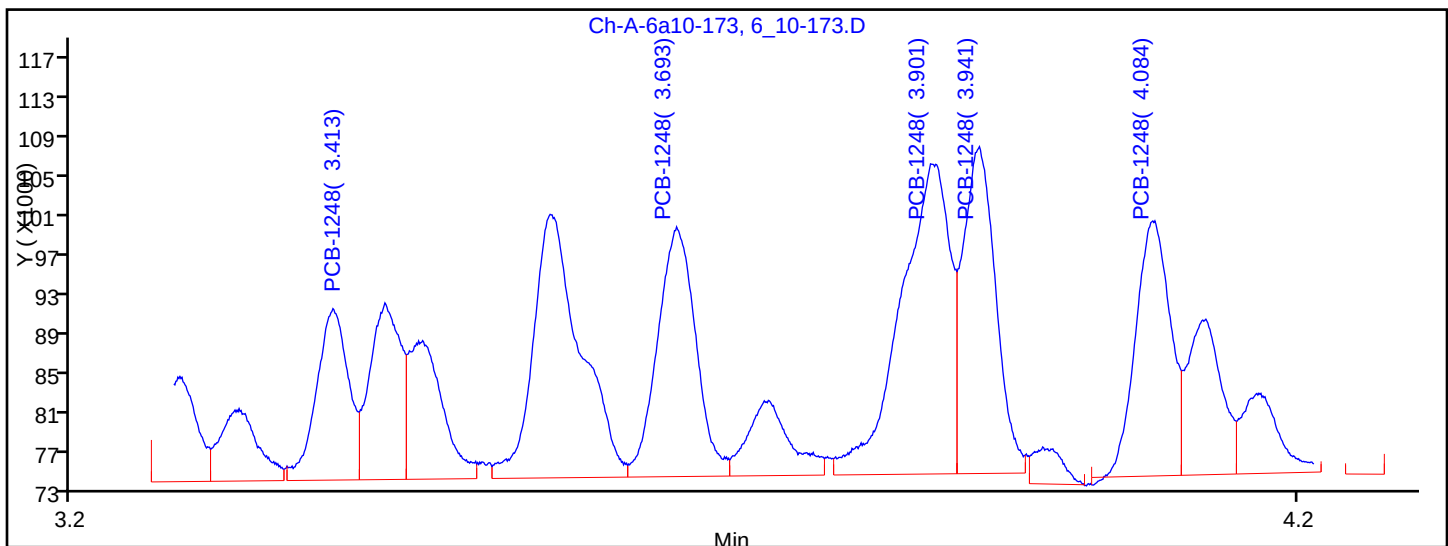
Detector Ch-A-7A136

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.413	Response = 25299
3.693	Response = 46818
3.901	Response = 74816
3.941	Response = 53295
4.084	Response = 45158



Manual Integration Results

3.413	Response = 30751	M
3.693	Response = 53446	M
3.901	Response = 86142	M
3.941	Response = 59588	M
4.084	Response = 49107	M

Reviewer: sobolk, 19-Sep-2016 18:48:31

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 425 of 603

12/07/2016

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 02:24 Calibration End Date: 09/16/2016 02:56 Calibration ID: 28380

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/29	6_10-173.D
Level 2	IC 480-320599/28	6_10-172.D
Level 3	IC 480-320599/27	6_10-171.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	0.0292	0.0239	0.0217			Ave		0.0249				15.5		20.0			
PCB-1248 Peak 2	0.0479	0.0396	0.0368			Ave		0.0415				13.9		20.0			
PCB-1248 Peak 3	0.0391	0.0357	0.0340			Ave		0.0362				7.3		20.0			
PCB-1248 Peak 4	0.0318	0.0280	0.0271			Ave		0.0289				8.7		20.0			
PCB-1248 Peak 5	0.0412	0.0351	0.0340			Ave		0.0367				10.5		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.: 480-110087-1 Analy Batch No.: 320599

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2016 02:24 Calibration End Date: 09/16/2016 02:56 Calibration ID: 28380

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-320599/29	6_10-173.D
Level 2	IC 480-320599/28	6_10-172.D
Level 3	IC 480-320599/27	6_10-171.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	Ave	59782	1175876	4434907			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Ave	97944	1951131	7516826			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Ave	79969	1757964	6926880			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Ave	64995	1377790	5519782			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Ave	84152	1730423	6928902			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-171.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Sep-2016 02:24:19 ALS Bottle#: 0 Worklist Smp#: 27
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 19-Sep-2016 18:49:32 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK053

First Level Reviewer: sobolk

Date: 16-Sep-2016 21:58:34

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	1.165	1.165	0.000	28950335	0.5000	0.5000	
2	1.140	1.140	0.000	51000563	0.5000	0.5000	

RPD = 0.00

7 PCB-1248

1	3.414	3.413	0.002	2187969	2.00	1.65	a
1	3.695	3.693	0.002	3201316	2.00	1.96	
1	3.903	3.901	0.002	5271311	2.00	1.97	a
1	3.942	3.941	0.001	3869053	2.00	1.97	a
1	4.083	4.084	-0.001	3151834	2.00	1.97	a

Average of Peak Amounts = 1.90

2	3.182	3.182	0.000	4434907	2.00	1.74	
2	3.423	3.423	0.000	7516826	2.00	1.78	
2	3.671	3.671	0.000	6926880	2.00	1.87	
2	3.719	3.719	0.000	5519782	2.00	1.87	
2	3.925	3.923	0.002	6928902	2.00	1.85	

Average of Peak Amounts = 1.82

RPD = 4.37

Reagents:

1248w/IS@ 2.0_00004

Amount Added: 0.25

Units: mL

Report Date: 19-Sep-2016 18:49:33

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-171.D

Injection Date: 16-Sep-2016 02:24:19

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 3

Worklist Smp#: 27

Client ID:

Injection Vol: 1.0 ul

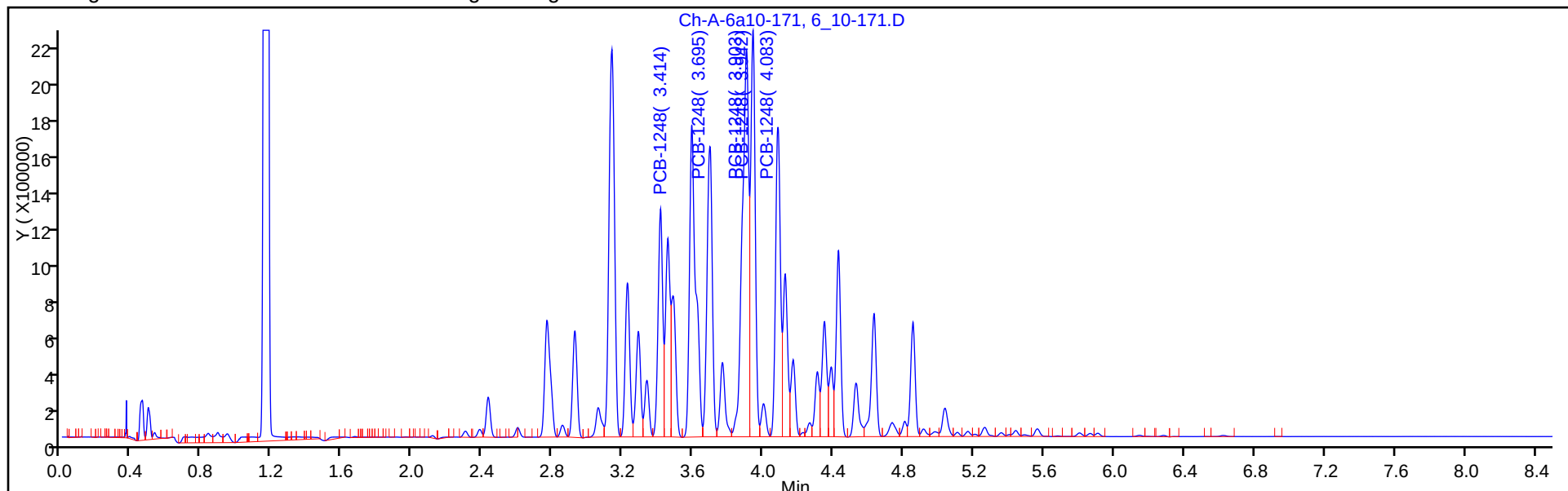
Dil. Factor: 1.0000

ALS Bottle#: 0

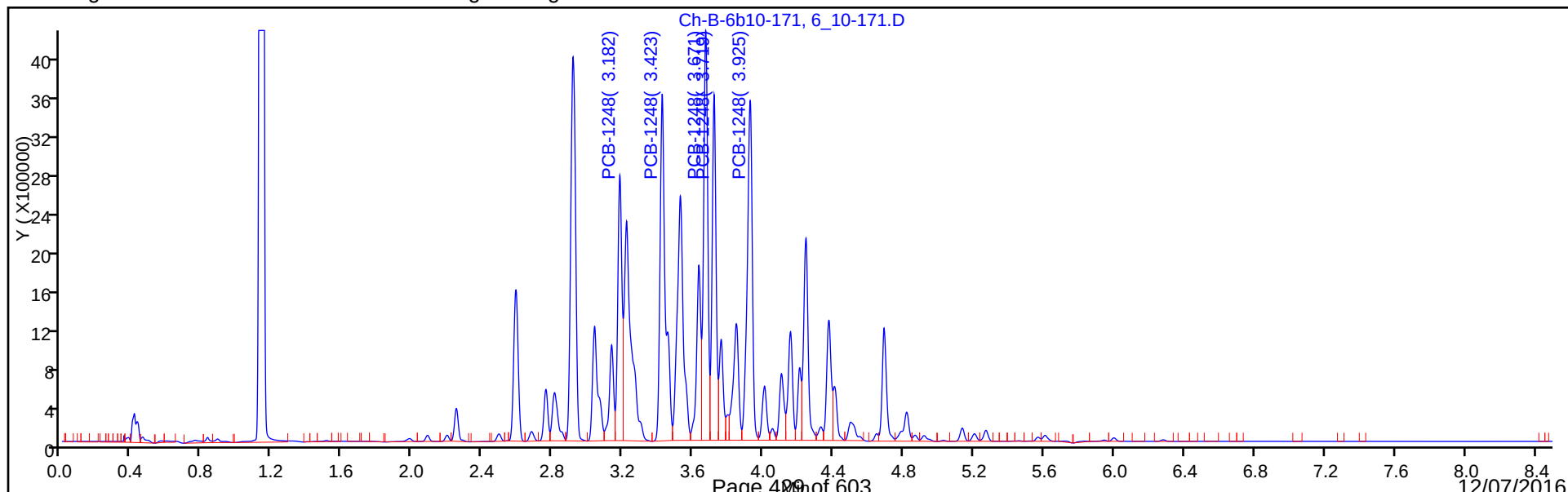
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-172.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Sep-2016 02:40:17 ALS Bottle#: 0 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 19-Sep-2016 18:49:37 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D

Column 1 : Det: Ch-A-7A136

Column 2 : Det: Ch-B-7b136

Process Host: XAWRK053

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	1.164	1.165	-0.001	28202725	0.5000	0.5000
2	1.139	1.140	-0.001	49285202	0.5000	0.5000

RPD = 0.00

7 PCB-1248

1	3.413	3.413	0.000	657839	0.5000	0.5095
1	3.695	3.693	0.002	882589	0.5000	0.5439
1	3.905	3.901	0.004	1406342	0.5000	0.5301
1	3.941	3.941	0.000	1032978	0.5000	0.5315
1	4.083	4.084	-0.002	837772	0.5000	0.5294

Average of Peak Amounts = 0.5289

2	3.182	3.182	0.000	1175876	0.5000	0.4782
2	3.423	3.423	0.000	1951131	0.5000	0.4775
2	3.673	3.671	0.001	1757964	0.5000	0.4920
2	3.720	3.719	0.001	1377790	0.5000	0.4830
2	3.925	3.923	0.002	1730423	0.5000	0.4777

Average of Peak Amounts = 0.4817

RPD = 9.34

Reagents:

1248w/IS@ 0.5_00007

Amount Added: 0.25

Units: mL

Report Date: 19-Sep-2016 18:49:38

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-172.D

Injection Date: 16-Sep-2016 02:40:17

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 2

Worklist Smp#: 28

Client ID:

Injection Vol: 1.0 ul

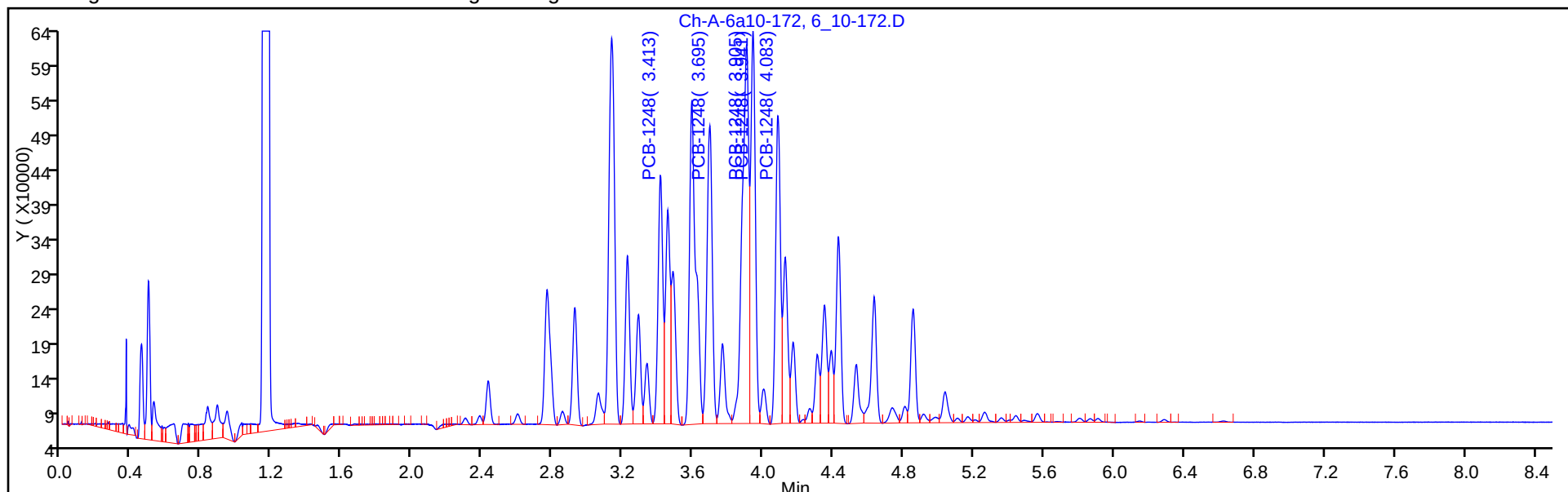
Dil. Factor: 1.0000

ALS Bottle#: 0

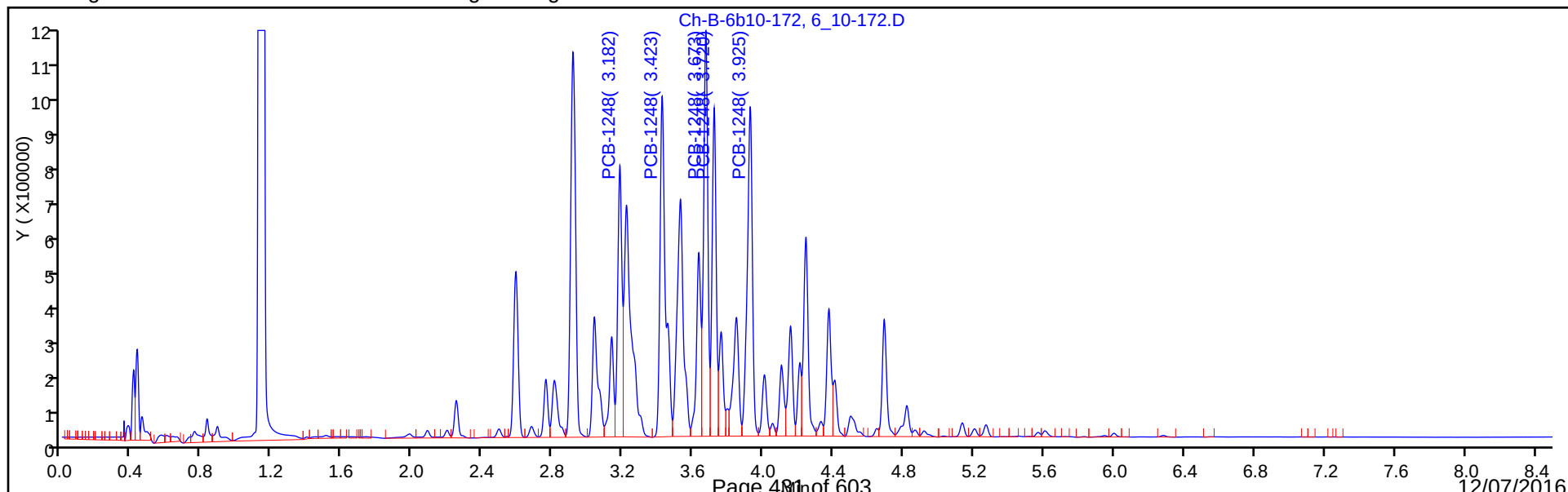
Method: 6890-6 PCB

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\HP6890-06\20160915-56412.b\6_10-173.D
 Lims ID: IC 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Sep-2016 02:56:24 ALS Bottle#: 0 Worklist Smp#: 29
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 19-Sep-2016 18:49:41 Calib Date: 16-Sep-2016 02:56:24
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK053

First Level Reviewer: sobolk

Date: 19-Sep-2016 18:48:31

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	1.165	1.165	0.000	29066831	0.5000	0.5000
2	1.140	1.140	0.000	51101229	0.5000	0.5000

RPD = 0.00

7 PCB-1248

M

1	3.413	3.413	0.000	30751	0.0200	0.0231	M
1	3.693	3.693	0.000	53446	0.0200	0.0187	M
1	3.901	3.901	0.000	86142	0.0200	0.0191	M
1	3.941	3.941	0.000	59588	0.0200	0.0190	M
1	4.084	4.084	0.000	49107	0.0200	0.0191	M

Average of Peak Amounts = 0.0198

2	3.182	3.182	0.000	59782	0.0200	0.0234
2	3.423	3.423	0.000	97944	0.0200	0.0231
2	3.671	3.671	0.000	79969	0.0200	0.0216
2	3.719	3.719	0.000	64995	0.0200	0.0220
2	3.923	3.923	0.000	84152	0.0200	0.0224

Average of Peak Amounts = 0.0225

RPD = 12.78

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1248w/IS@ .02_00004

Amount Added: 0.25

Units: mL

Report Date: 19-Sep-2016 18:49:42

Chrom Revision: 2.2 08-Sep-2016 14:45:52

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20160915-56412.b\6_10-173.D

Injection Date: 16-Sep-2016 02:56:24

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: IC 1

Worklist Smp#: 29

Client ID:

Injection Vol: 1.0 ul

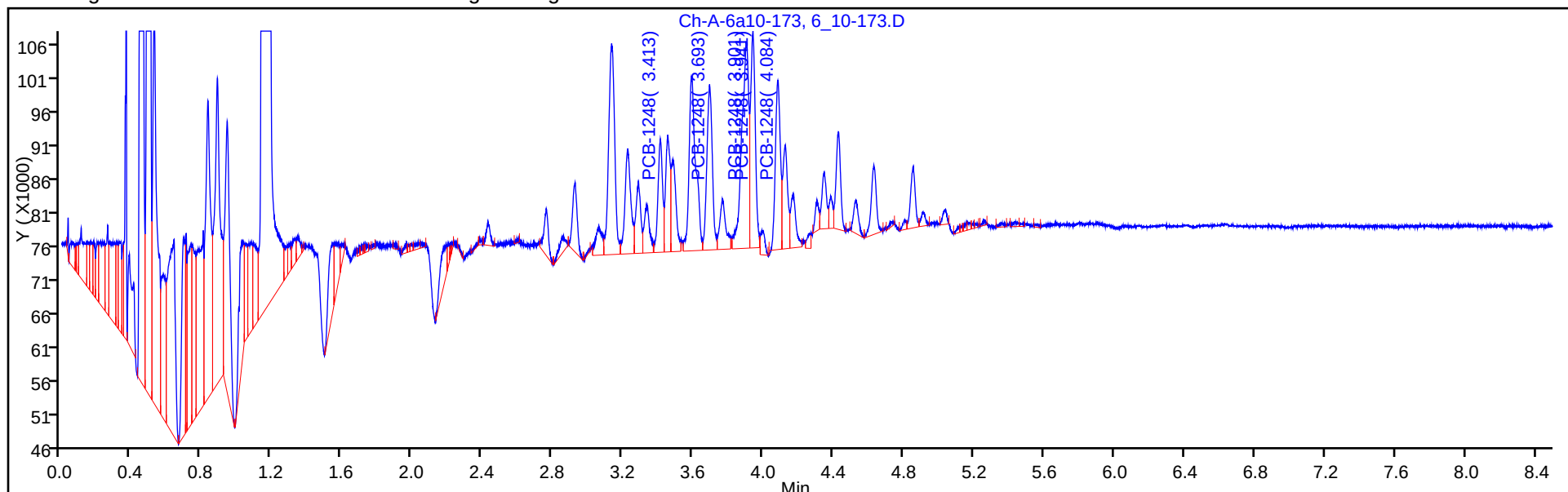
Dil. Factor: 1.0000

ALS Bottle#: 0

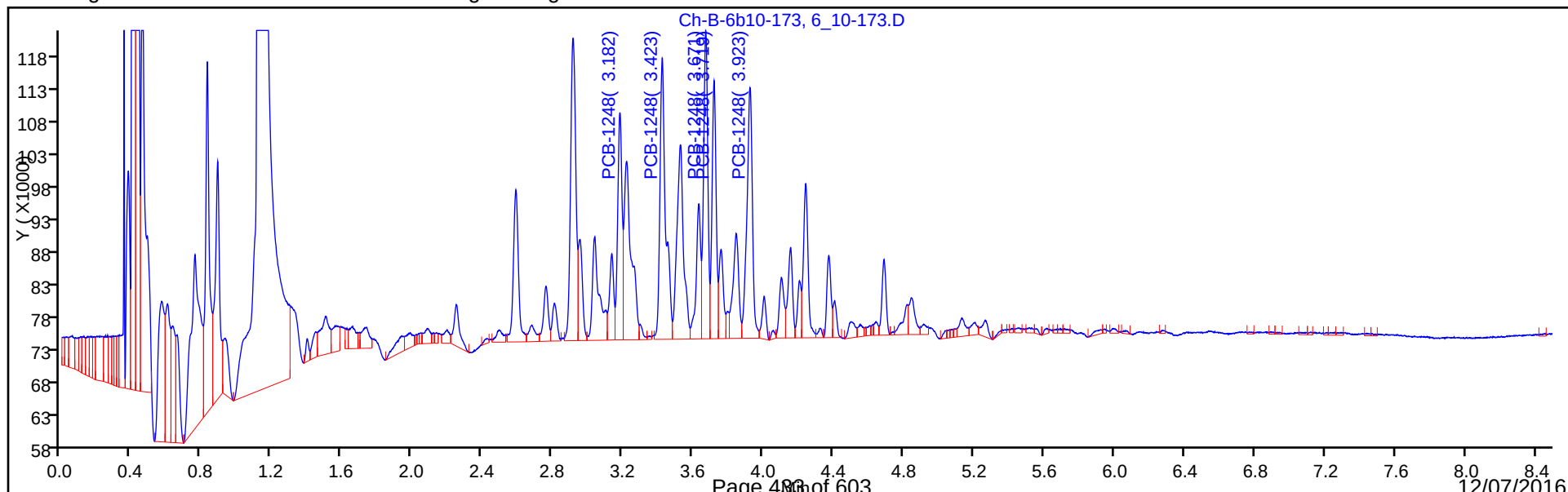
Method: 6890-6 PCB

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.: 480-110087-1 Analy Batch No.: 333359

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2016 17:00 Calibration End Date: 11/23/2016 18:36 Calibration ID: 28994

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-333359/8	6_15-155.D
Level 2	STD2 480-333359/7	6_15-154.D
Level 3	STD3 480-333359/6	6_15-153.D
Level 4	STD4 480-333359/5	6_15-152.D
Level 5	STD5 480-333359/4	6_15-151.D
Level 6	STD6 480-333359/3	6_15-150.D
Level 7	STD7 480-333359/2	6_15-149.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Tetrachloro-m-xylene	1.2599 0.9821	1.1740 0.9173	1.0195	1.0703	0.7984	Ave		1.0317				15.0		20.0			
DCB Decachlorobiphenyl	1.0861 0.6909	0.9941 0.6769	0.9054	0.7865	0.7060	Lin1	0.0003	0.6798							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.: 480-110087-1 Analy Batch No.: 333359

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2016 17:00 Calibration End Date: 11/23/2016 18:36 Calibration ID: 28994

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-333359/8	6_15-155.D
Level 2	STD2 480-333359/7	6_15-154.D
Level 3	STD3 480-333359/6	6_15-153.D
Level 4	STD4 480-333359/5	6_15-152.D
Level 5	STD5 480-333359/4	6_15-151.D
Level 6	STD6 480-333359/3	6_15-150.D
Level 7	STD7 480-333359/2	6_15-149.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
Tetrachloro-m-xylene	BNB	Ave	9380 362333	21384 681562	37458	78767	149201	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	8086 254894	18106 502888	33264	57881	131933	0.000500 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\HP6890-06\20161123-58616.b\6_15-149.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 23-Nov-2016 17:00:30 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:21 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk Date: 23-Nov-2016 17:53:54

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	1.076	1.086	-0.010	7429809	0.5000	0.5000	
2	1.090	1.095	-0.005	36819085	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.032	2.046	-0.014	681562	0.0500	0.0445	M
2	1.749	1.756	-0.007	2874655	0.0500	0.0463	M
							RPD = 4.10

\$ 15 DCB Decachlorobiphenyl

1	6.754	6.759	-0.005	502888	0.0500	0.0493	M
2	6.452	6.469	-0.017	2384110	0.0500	0.0489	M
							RPD = 0.96

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002	Amount Added: 1.00	Units: mL	
PCB IS 1B2NB_00020	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 23-Nov-2016 20:37:23

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-149.D

Injection Date: 23-Nov-2016 17:00:30

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD7

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

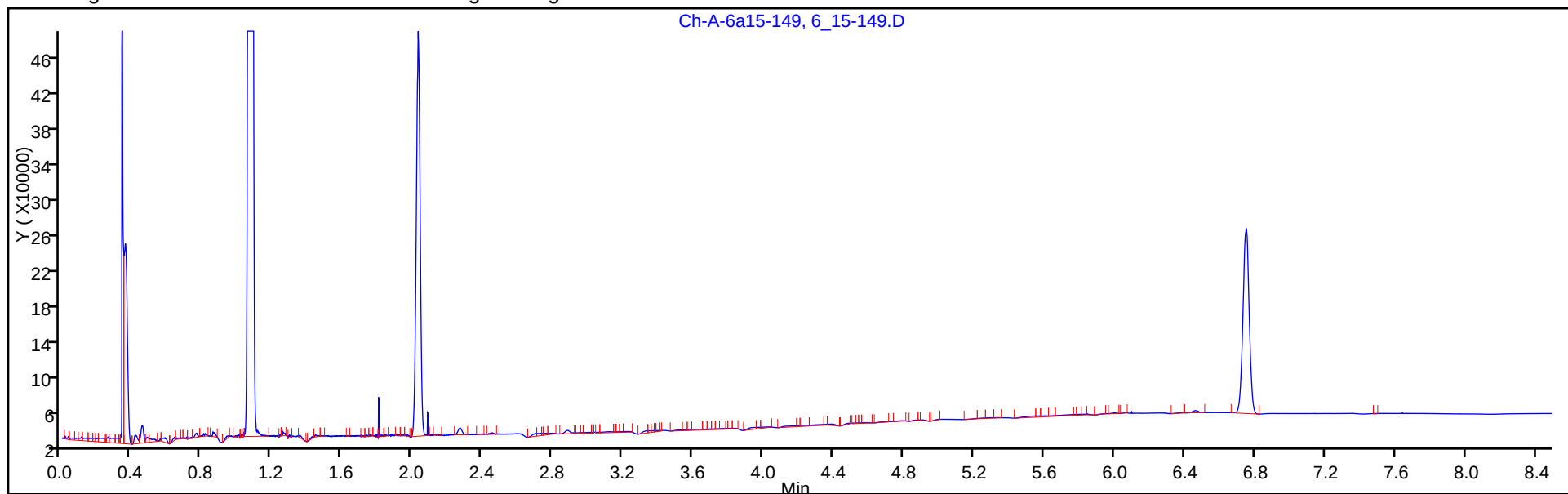
Dil. Factor: 1.0000

ALS Bottle#: 0

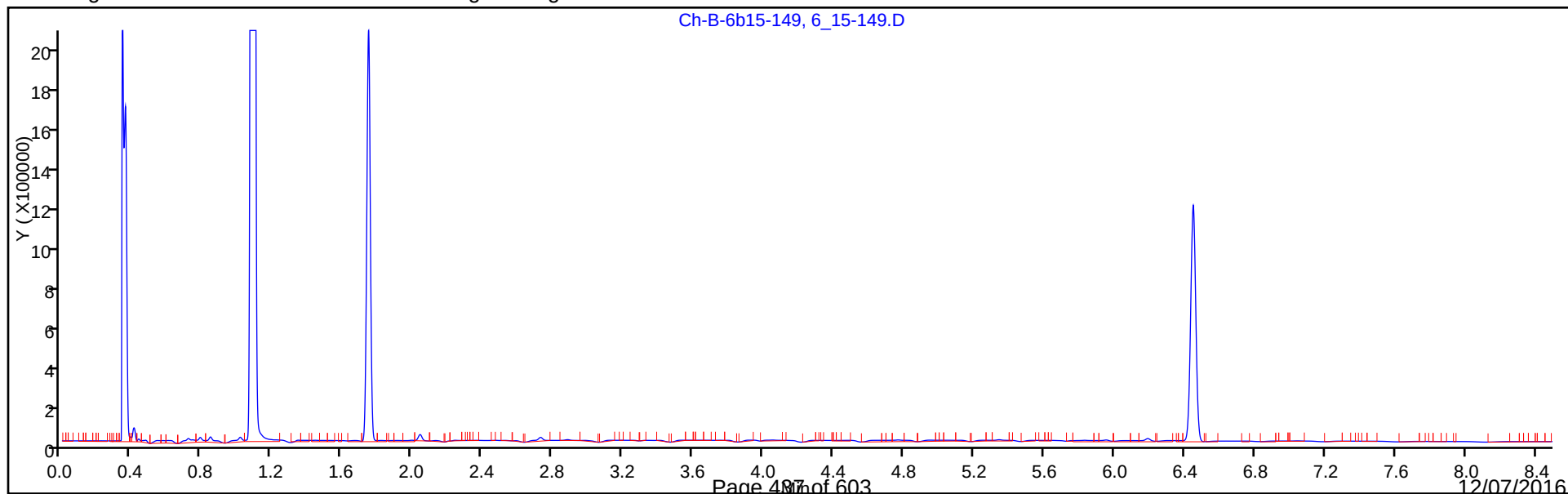
Method: 6890-6 PCB

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\HP6890-06\20161123-58616.b\6_15-150.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 23-Nov-2016 17:16:21 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:24 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk

Date: 23-Nov-2016 19:37:11

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	1.078	1.086	-0.008	7378528	0.5000	0.5000	
2	1.093	1.095	-0.003	36352610	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.033	2.046	-0.013	362333	0.0250	0.0238	M
2	1.751	1.756	-0.005	1534548	0.0250	0.0250	M
RPD = 5.10							

\$ 15 DCB Decachlorobiphenyl

1	6.753	6.759	-0.007	254894	0.0250	0.0250	
2	6.454	6.469	-0.015	1224795	0.0250	0.0251	M
RPD = 0.54							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002

Amount Added: 0.50

Units: mL

PCB IS 1B2NB_00020

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Nov-2016 20:37:26

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-150.D

Injection Date: 23-Nov-2016 17:16:21

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD6

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

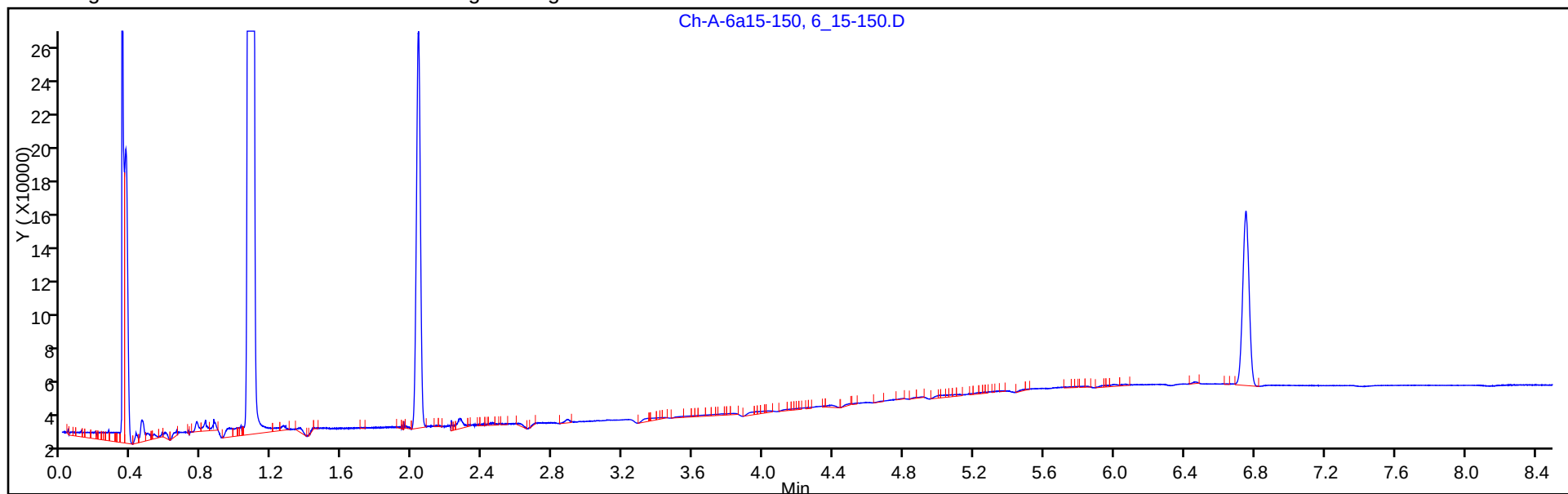
Dil. Factor: 1.0000

ALS Bottle#: 0

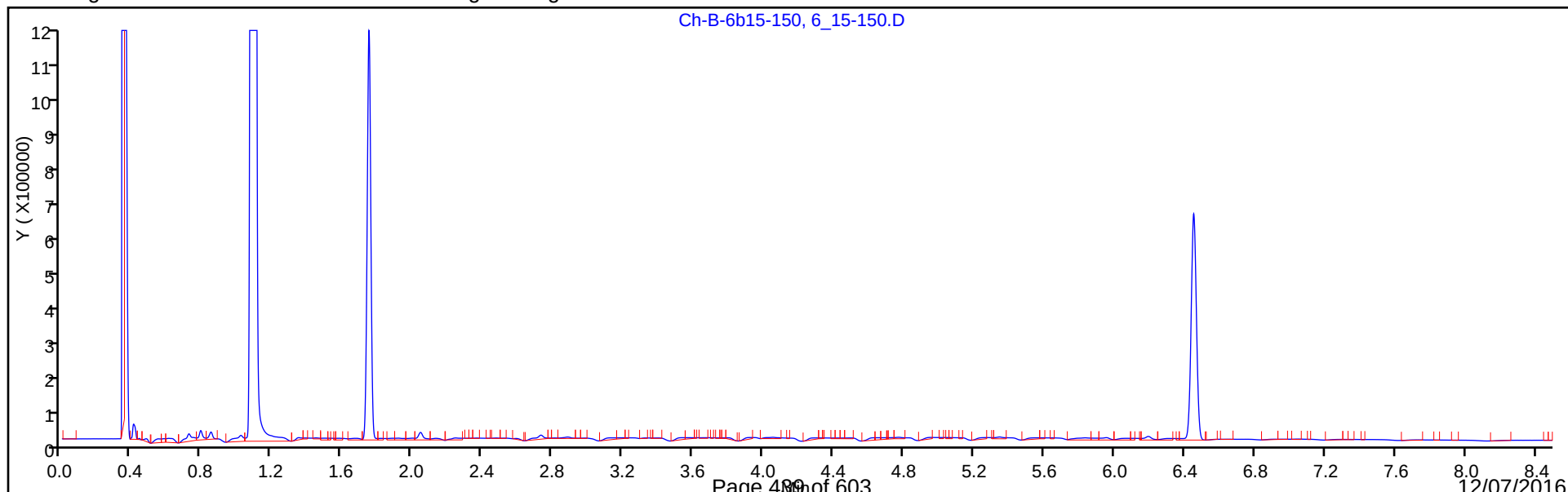
Method: 6890-6 PCB

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\HP6890-06\20161123-58616.b\6_15-151.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 23-Nov-2016 17:32:23 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:27 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk

Date: 23-Nov-2016 17:54:48

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	1.078	1.086	-0.008	7474765	0.5000	0.5000	
2	1.093	1.095	-0.002	36416535	0.5000	0.5000	

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.035	2.046	-0.011	149201	0.0125	0.009674	a
2	1.753	1.756	-0.004	756104	0.0125	0.0123	M

RPD = 24.05

\$ 15 DCB Decachlorobiphenyl

1	6.754	6.759	-0.005	131933	0.0125	0.0125	
2	6.459	6.469	-0.010	647644	0.0125	0.0129	M

RPD = 3.05

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002

Amount Added: 0.25

Units: mL

PCB IS 1B2NB_00020

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Nov-2016 20:37:29

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-151.D

Injection Date: 23-Nov-2016 17:32:23

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD5

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

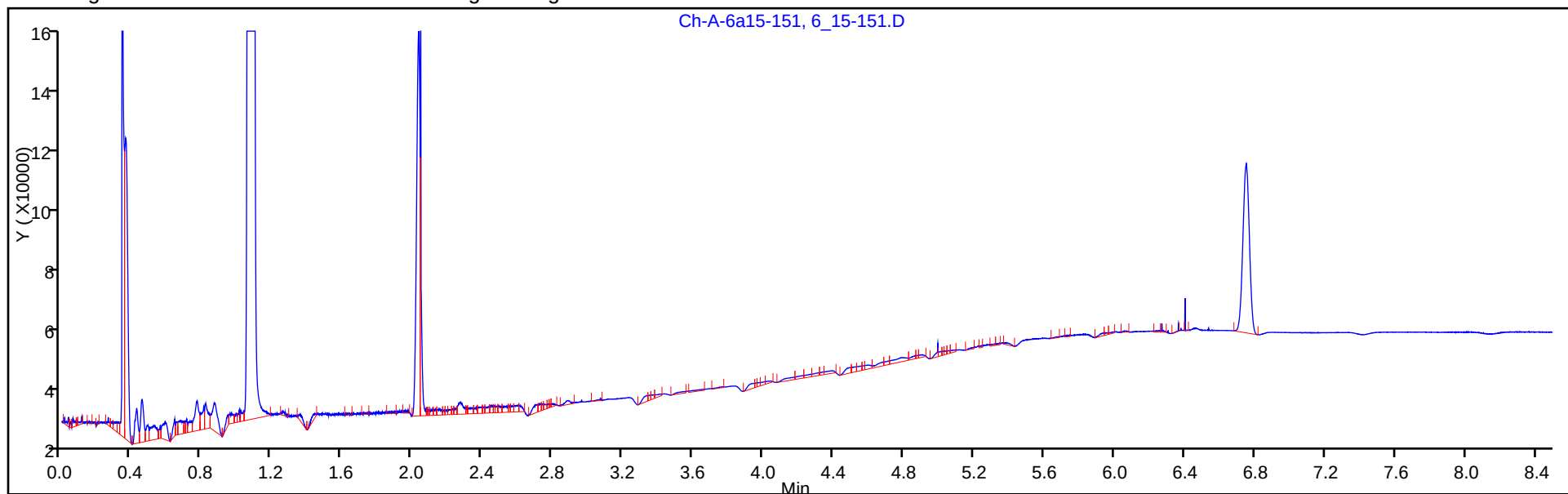
Dil. Factor: 1.0000

ALS Bottle#: 0

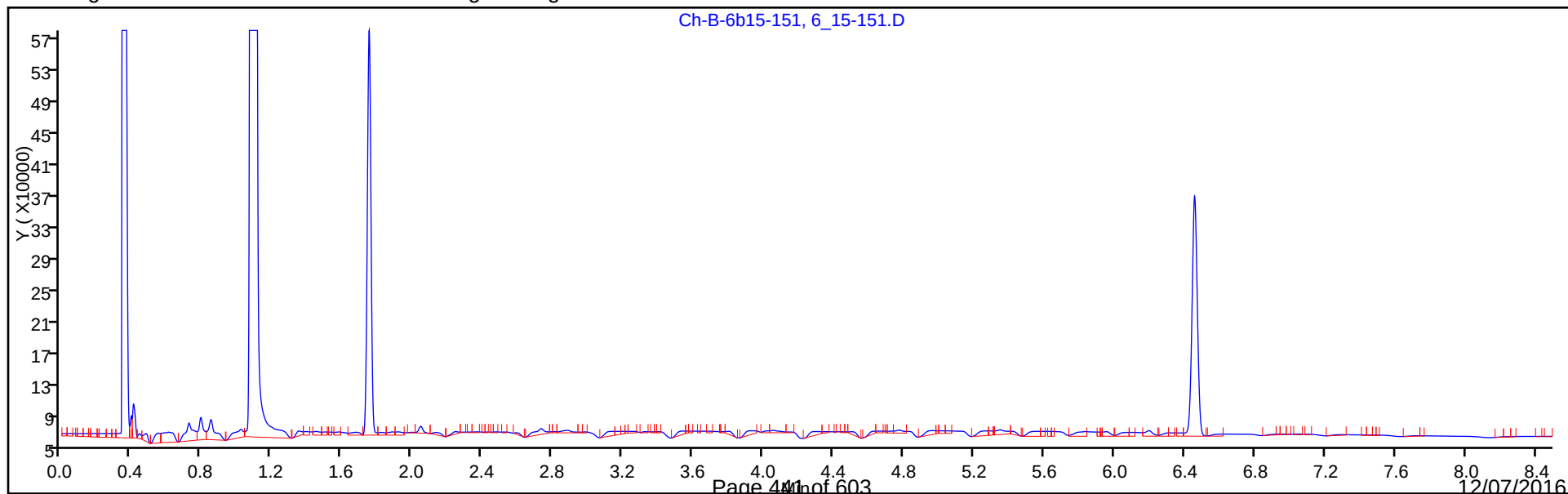
Method: 6890-6 PCB

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

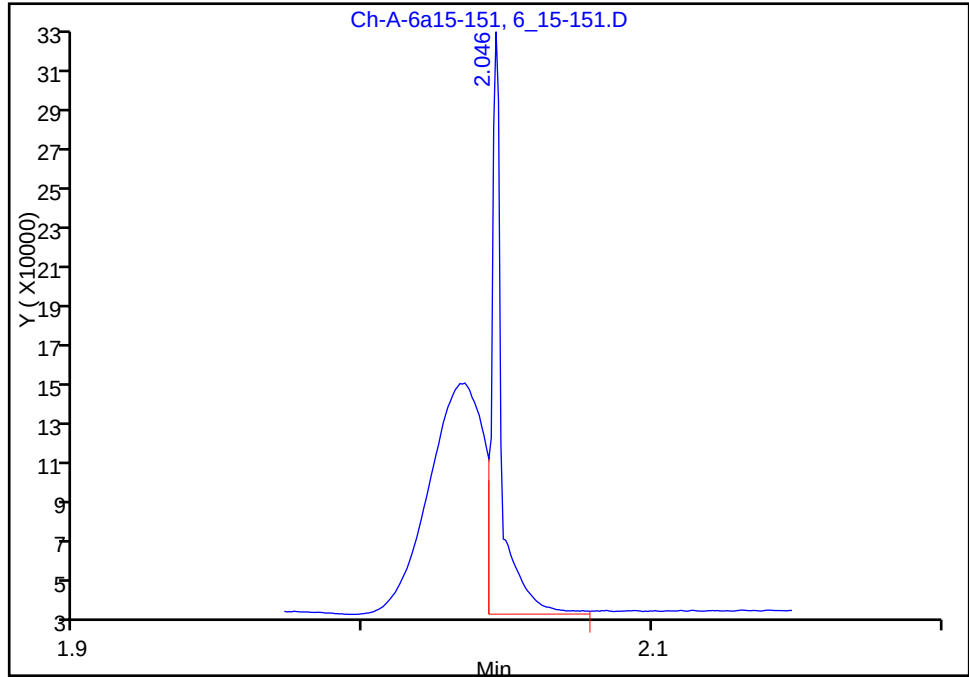
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-151.D		
Injection Date:	23-Nov-2016 17:32:23	Instrument ID:	HP6890-6
Lims ID:	STD5		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector:	Ch-A-7A136
Worklist Smp#:	4		

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

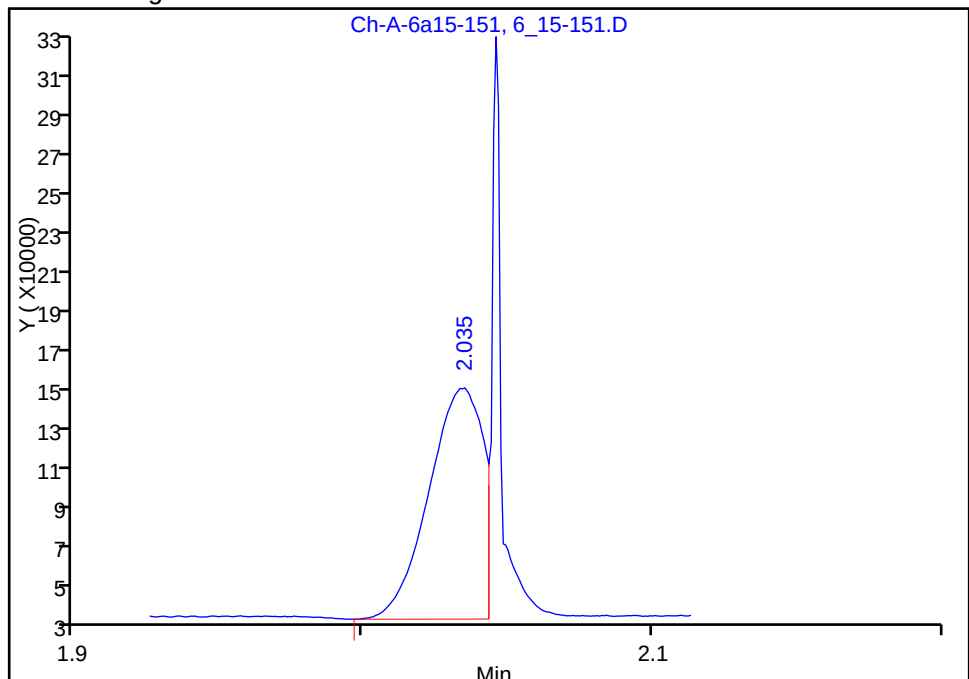
RT: 2.05
Area: 68183
Amount: 0.011240
Amount Units: ng/uL

Processing Integration Results



RT: 2.04
Area: 149201
Amount: 0.009674
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 17:54:48

Audit Action: Assigned Compound ID

Audit Reason:

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-152.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 23-Nov-2016 17:48:21 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:30 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk Date: 23-Nov-2016 19:26:31

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	1.079	1.086	-0.007	7359400	0.5000	0.5000	
2	1.093	1.095	-0.002	35620106	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.033	2.046	-0.013	78767	0.005000	0.005187	M
2	1.753	1.756	-0.004	318672	0.005000	0.005308	M
							RPD = 2.30

\$ 15 DCB Decachlorobiphenyl

1	6.752	6.759	-0.007	57881	0.005000	0.005333	M
2	6.462	6.469	-0.007	285963	0.005000	0.005452	M
							RPD = 2.20

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002	Amount Added: 0.10	Units: mL	
PCB IS 1B2NB_00020	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 23-Nov-2016 20:37:32

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-152.D

Injection Date: 23-Nov-2016 17:48:21

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD4

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

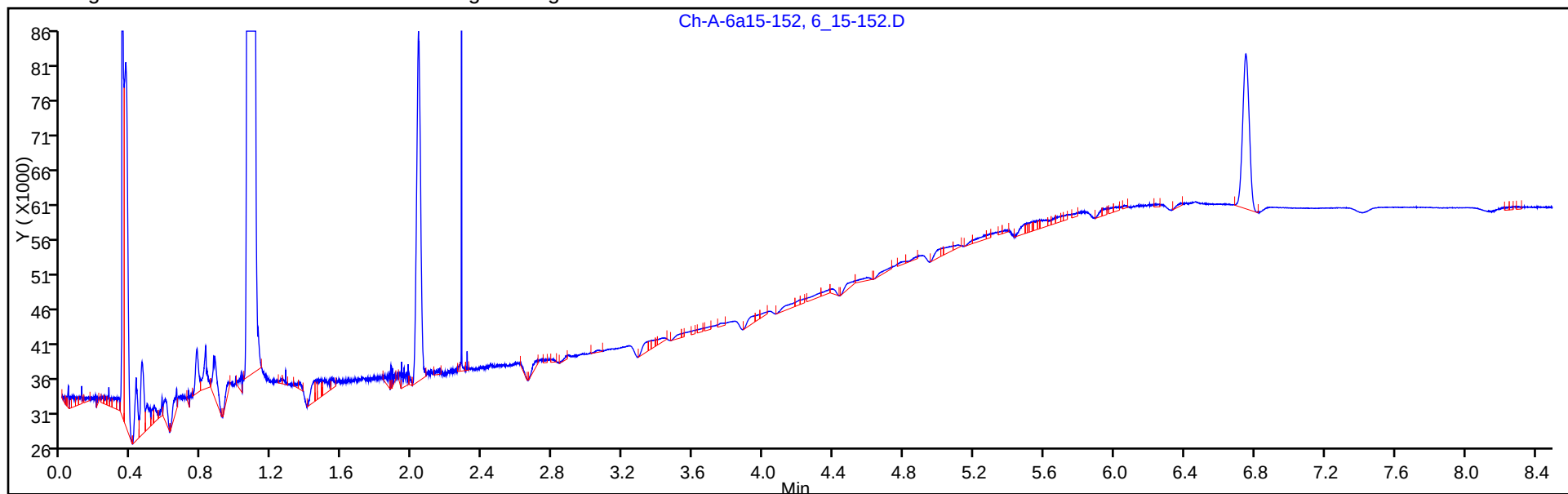
Dil. Factor: 1.0000

ALS Bottle#: 0

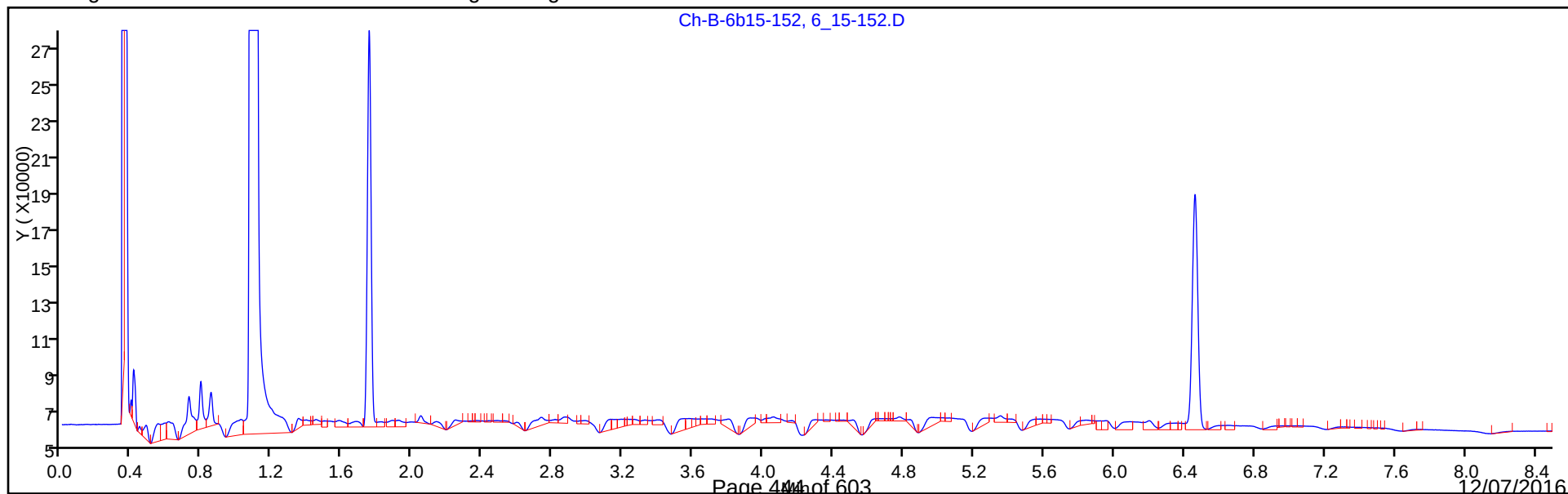
Method: 6890-6 PCB

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\HP6890-06\20161123-58616.b\6_15-153.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 23-Nov-2016 18:04:22 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:33 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk

Date: 23-Nov-2016 20:33:37

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	1.078	1.086	-0.008	7348102	0.5000	0.5000	
2	1.093	1.095	-0.003	35352434	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

M

1	2.036	2.046	-0.010	37458	0.002500	0.002471	
2	1.752	1.756	-0.004	122415	0.002500	0.002054	M
RPD = 18.40							

\$ 15 DCB Decachlorobiphenyl

M

1	6.752	6.759	-0.007	33264	0.002500	0.002878	
2	6.463	6.469	-0.006	157292	0.002500	0.002713	M
RPD = 5.90							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002

Amount Added: 0.05

Units: mL

PCB IS 1B2NB_00020

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Nov-2016 20:37:35

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-153.D

Injection Date: 23-Nov-2016 18:04:22

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD3

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

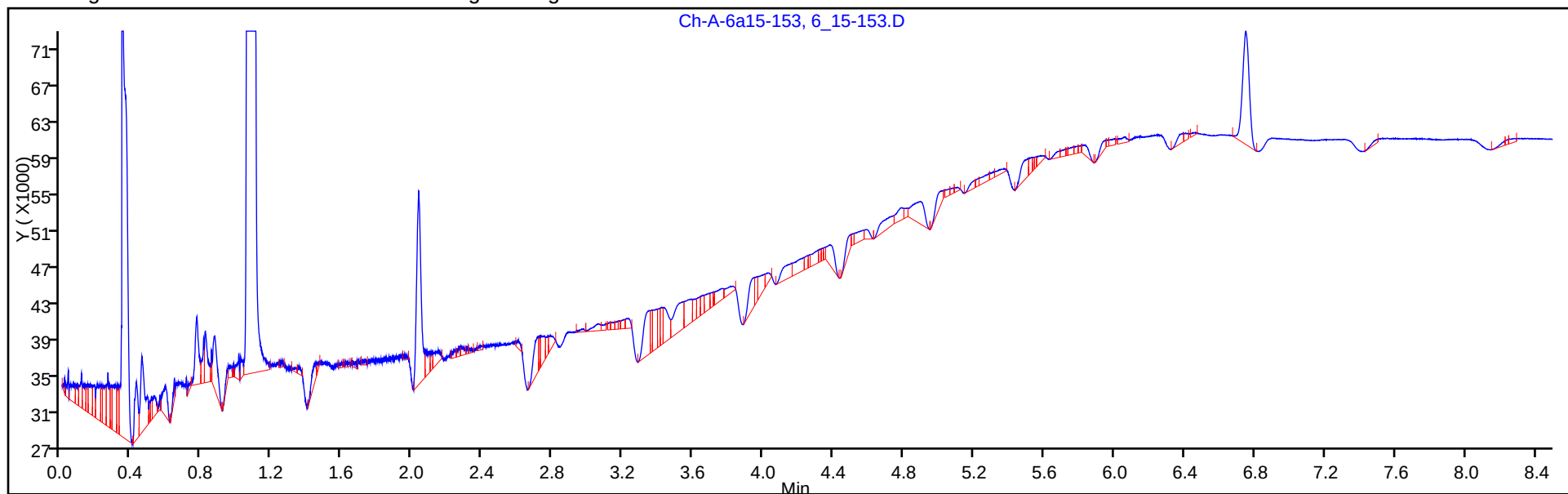
Dil. Factor: 1.0000

ALS Bottle#: 0

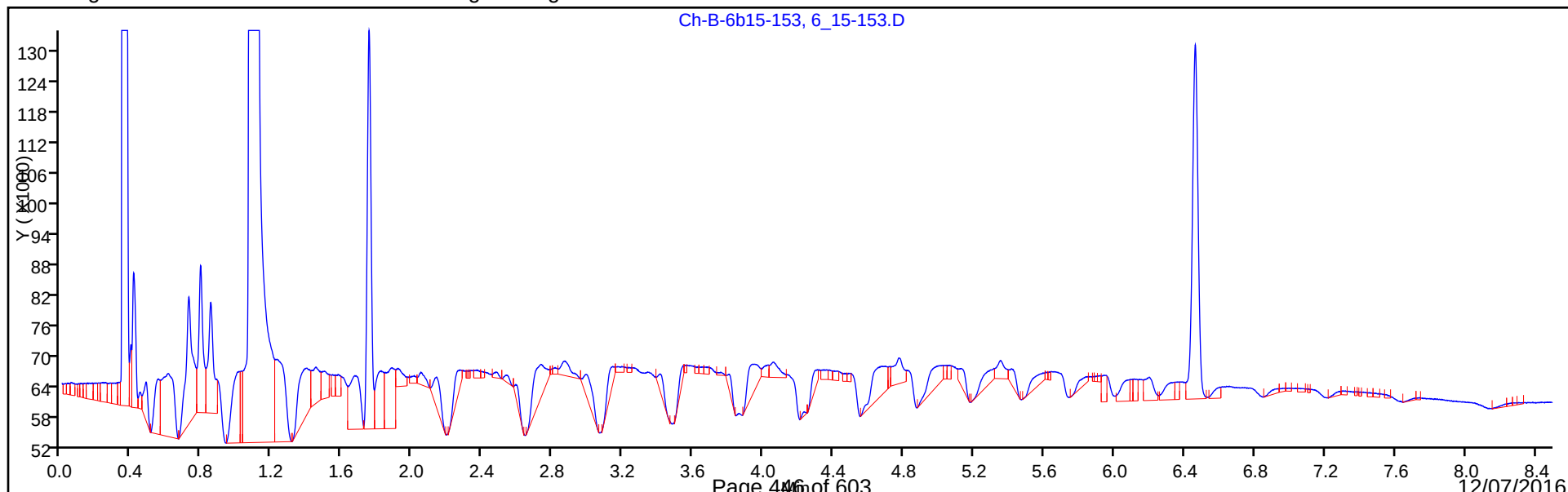
Method: 6890-6 PCB

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\HP6890-06\20161123-58616.b\6_15-154.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 23-Nov-2016 18:20:18 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:36 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk Date: 23-Nov-2016 20:33:24

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	1.078	1.086	-0.008	7285667	0.5000	0.5000	
2	1.093	1.095	-0.003	34848526	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.032	2.046	-0.014	21384	0.001250	0.001423	M
2	1.752	1.756	-0.004	79953	0.001250	0.001361	M
							RPD = 4.41

\$ 15 DCB Decachlorobiphenyl

1	6.753	6.759	-0.007	18106	0.001250	0.001376	M
2	6.464	6.469	-0.005	93159	0.001250	0.001354	M
							RPD = 1.63

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002	Amount Added: 0.03	Units: mL	
PCB IS 1B2NB_00020	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 23-Nov-2016 20:37:38

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-154.D

Injection Date: 23-Nov-2016 18:20:18

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD2

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

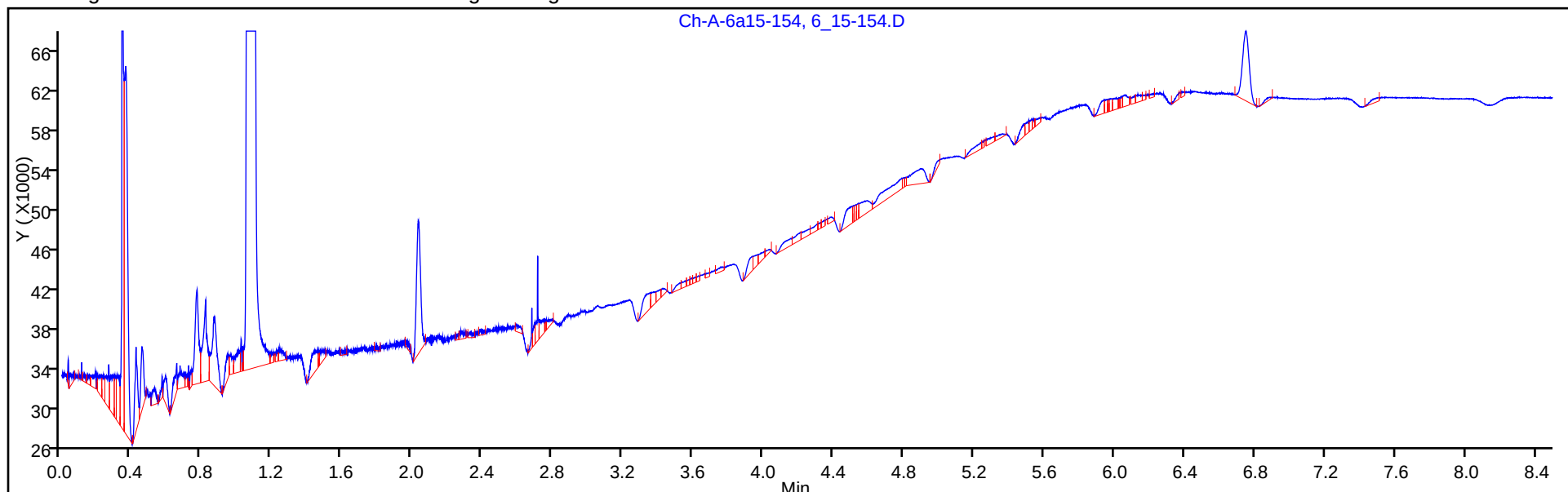
Dil. Factor: 1.0000

ALS Bottle#: 0

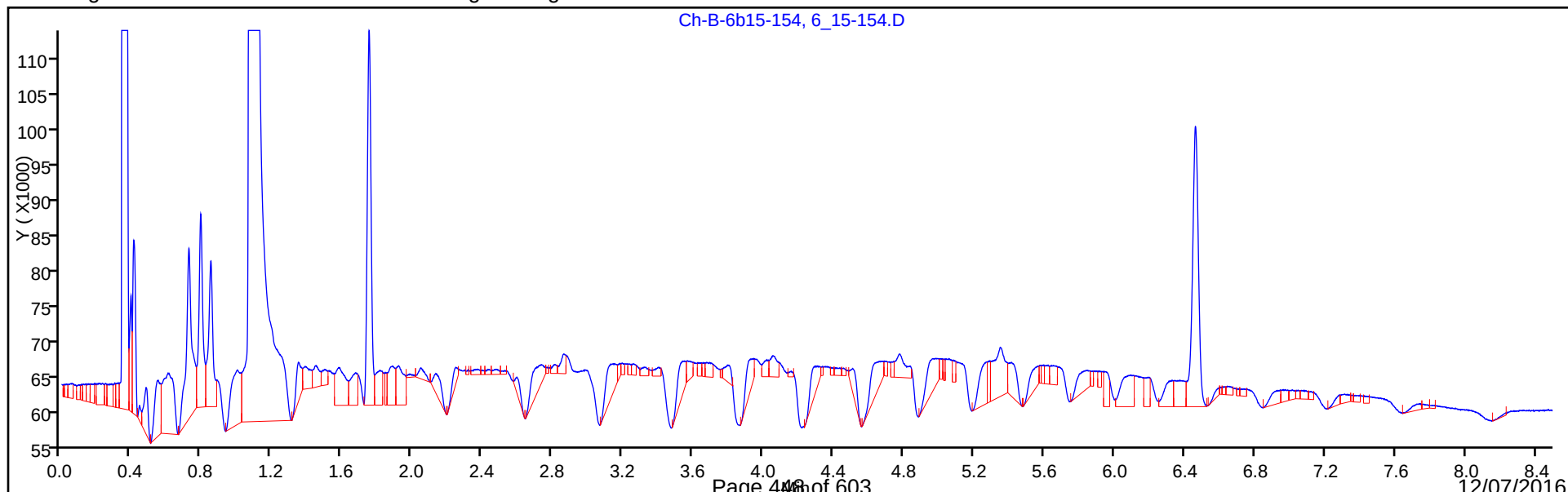
Method: 6890-6 PCB

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\HP6890-06\20161123-58616.b\6_15-155.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 23-Nov-2016 18:36:16 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:39 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk

Date: 23-Nov-2016 19:29:42

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	1.078	1.078	0.000	7445123	0.5000	0.5000	
2	1.093	1.093	0.000	35391964	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

M

1	2.033	2.033	0.000	9380	0.000500	0.000611	
2	1.753	1.753	0.000	33230	0.000500	0.000557	M
RPD = 9.17							

\$ 15 DCB Decachlorobiphenyl

M

1	6.748	6.748	0.000	8086	0.000500	0.000347	
2	6.465	6.465	0.000	48813	0.000500	0.000364	M
RPD = 4.64							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002

Amount Added: 0.01

Units: mL

PCB IS 1B2NB_00020

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Nov-2016 20:37:41

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D

Injection Date: 23-Nov-2016 18:36:16

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD1

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

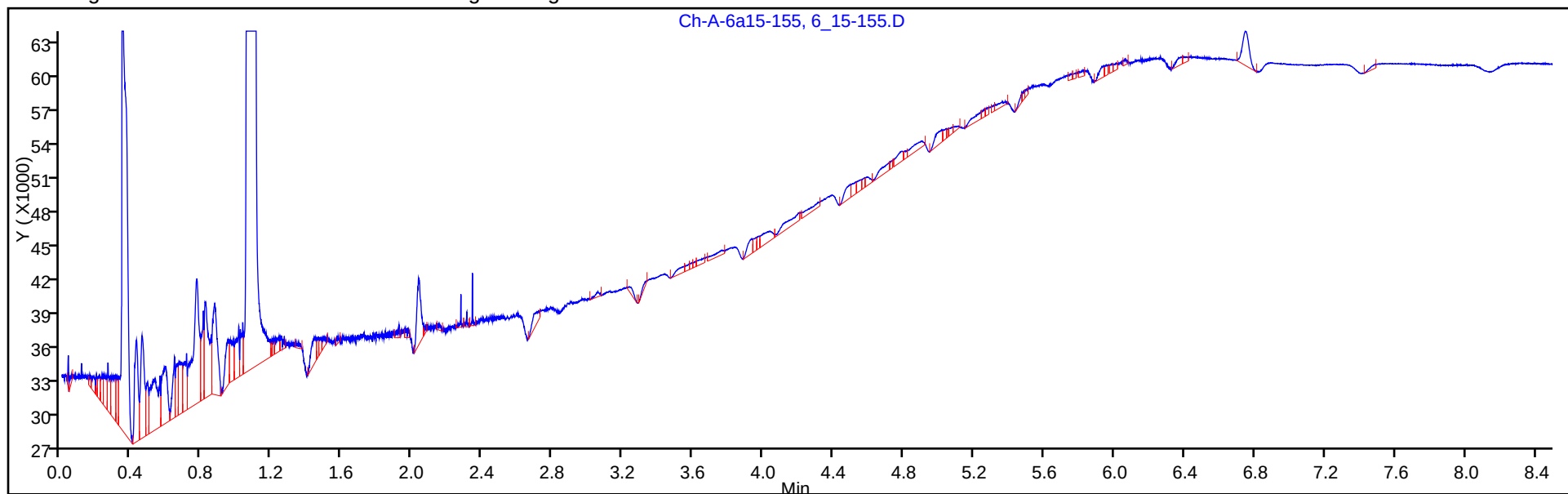
Dil. Factor: 1.0000

ALS Bottle#: 0

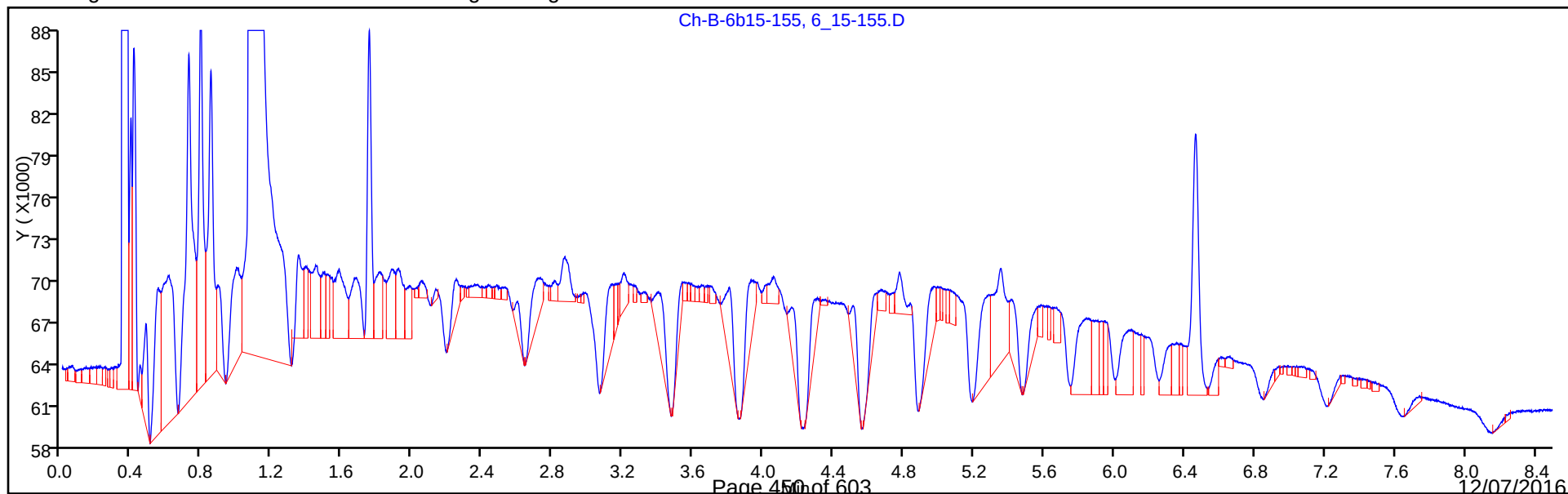
Method: 6890-6 PCB

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.: 480-110087-1 Analy Batch No.: 333359

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2016 17:00 Calibration End Date: 11/23/2016 18:36 Calibration ID: 28995

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-333359/8	6_15-155.D
Level 2	STD2 480-333359/7	6_15-154.D
Level 3	STD3 480-333359/6	6_15-153.D
Level 4	STD4 480-333359/5	6_15-152.D
Level 5	STD5 480-333359/4	6_15-151.D
Level 6	STD6 480-333359/3	6_15-150.D
Level 7	STD7 480-333359/2	6_15-149.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Tetrachloro-m-xylene	0.9389 0.8443	0.9177 0.7808	0.6925	0.8946	0.8305	Ave		0.8428				10.2		20.0			
DCB Decachlorobiphenyl	1.3792 0.6738	1.0693 0.6475	0.8899	0.8028	0.7114	Lin1	0.0005	0.6534							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.: 480-110087-1 Analy Batch No.: 333359

SDG No.: _____

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/23/2016 17:00 Calibration End Date: 11/23/2016 18:36 Calibration ID: 28995

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-333359/8	6_15-155.D
Level 2	STD2 480-333359/7	6_15-154.D
Level 3	STD3 480-333359/6	6_15-153.D
Level 4	STD4 480-333359/5	6_15-152.D
Level 5	STD5 480-333359/4	6_15-151.D
Level 6	STD6 480-333359/3	6_15-150.D
Level 7	STD7 480-333359/2	6_15-149.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
Tetrachloro-m-xylene	BNB	Ave	33230 1534548	79953 2874655	122415	318672	756104	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	48813 1224795	93159 2384110	157292	285963	647644	0.000500 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\HP6890-06\20161123-58616.b\6_15-149.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 23-Nov-2016 17:00:30 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:21 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk Date: 23-Nov-2016 17:53:54

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	1.076	1.086	-0.010	7429809	0.5000	0.5000	
2	1.090	1.095	-0.005	36819085	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.032	2.046	-0.014	681562	0.0500	0.0445	M
2	1.749	1.756	-0.007	2874655	0.0500	0.0463	M
							RPD = 4.10

\$ 15 DCB Decachlorobiphenyl

1	6.754	6.759	-0.005	502888	0.0500	0.0493	M
2	6.452	6.469	-0.017	2384110	0.0500	0.0489	M
							RPD = 0.96

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002	Amount Added: 1.00	Units: mL	
PCB IS 1B2NB_00020	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 23-Nov-2016 20:37:23

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-149.D

Injection Date: 23-Nov-2016 17:00:30

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD7

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

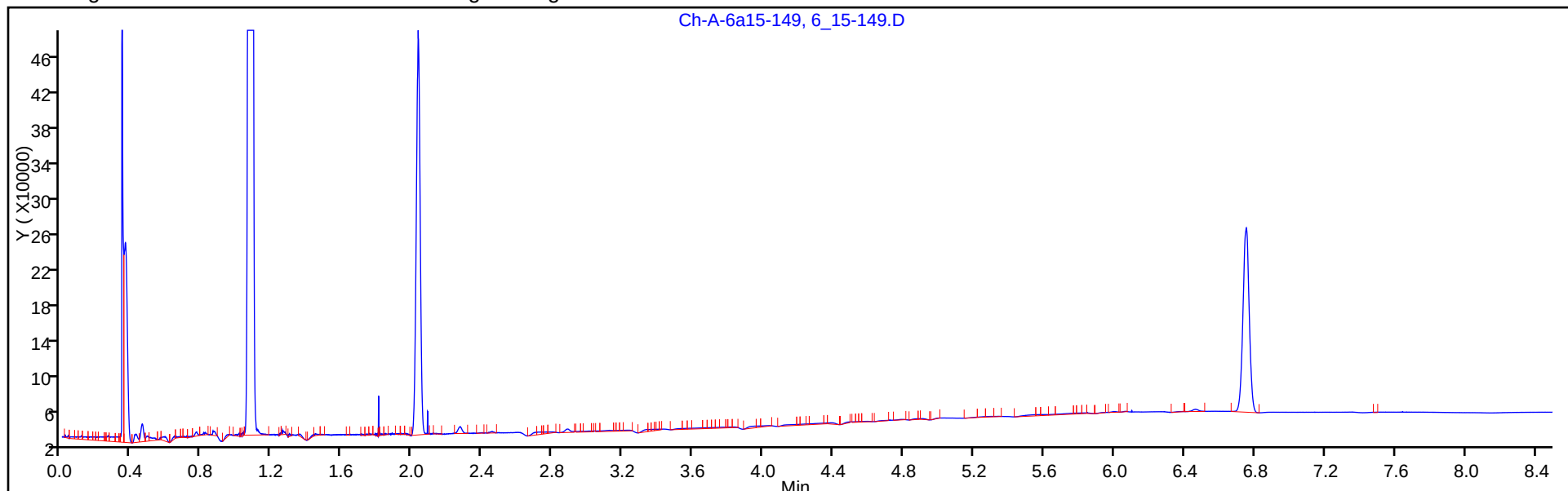
Dil. Factor: 1.0000

ALS Bottle#: 0

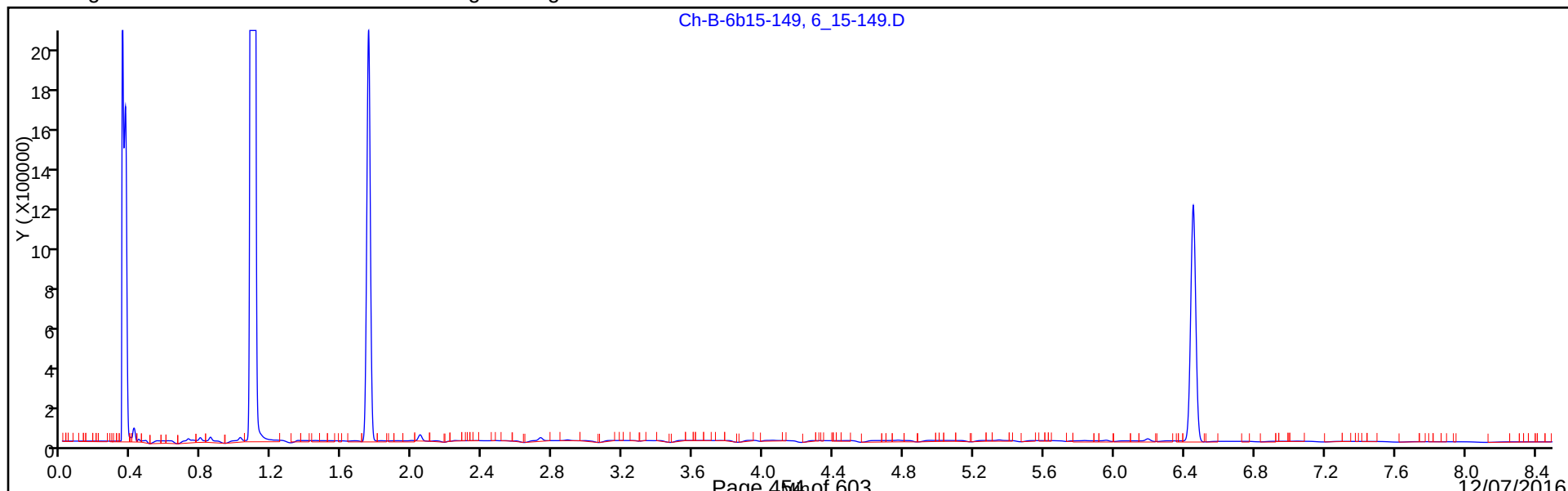
Method: 6890-6 PCB

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

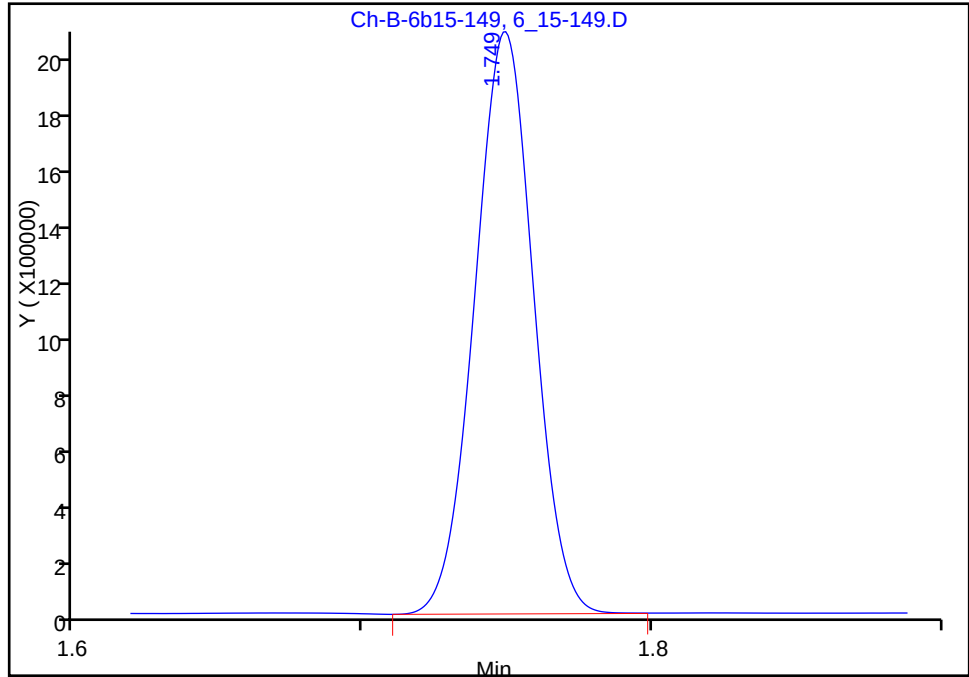
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-149.D		
Injection Date:	23-Nov-2016 17:00:30	Instrument ID:	HP6890-6
Lims ID:	STD7		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector:	Ch-B-7b136
Worklist Smp#:	2		

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

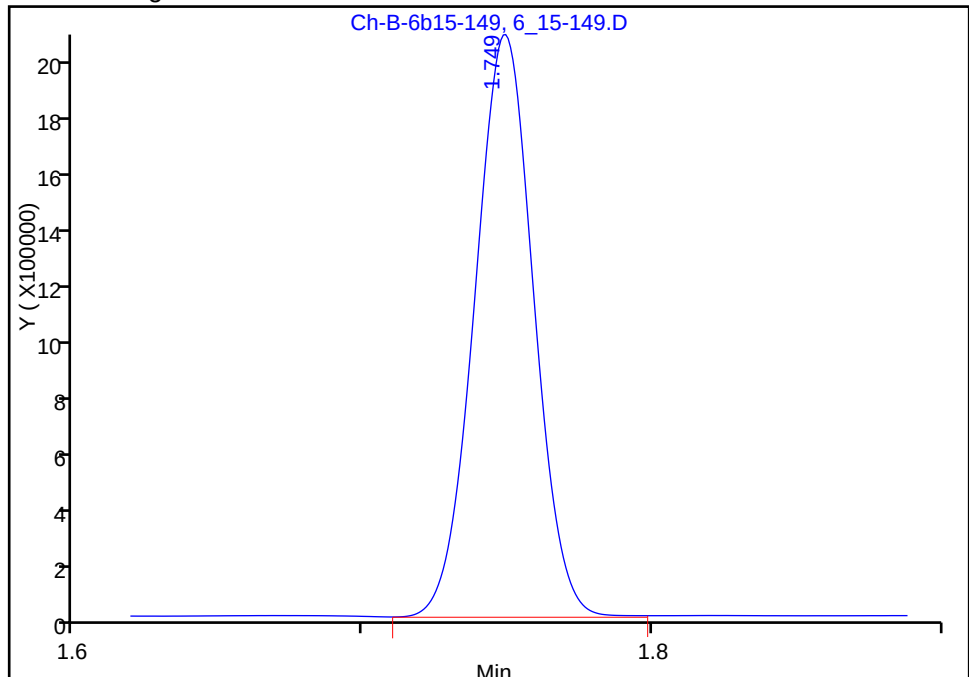
RT: 1.75
Area: 2861140
Amount: 0.048502
Amount Units: ng/uL

Processing Integration Results



RT: 1.75
Area: 2874655
Amount: 0.046321
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:31:03
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 455 of 603

12/07/2016

TestAmerica Buffalo

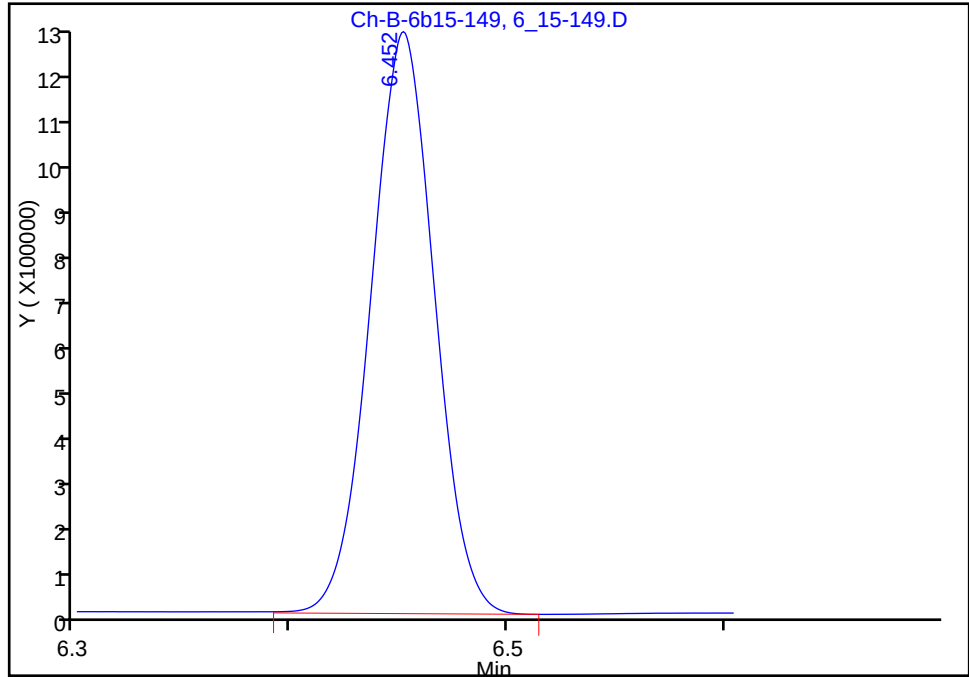
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-149.D
Injection Date: 23-Nov-2016 17:00:30 Instrument ID: HP6890-6
Lims ID: STD7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

\$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

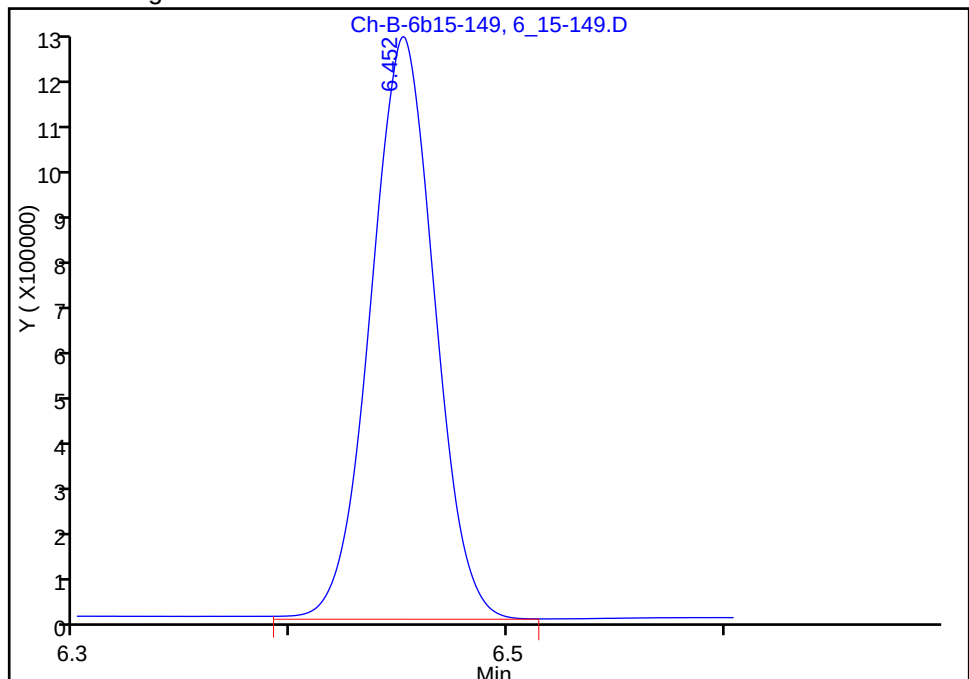
RT: 6.45
Area: 2368667
Amount: 0.048874
Amount Units: ng/uL

Processing Integration Results



RT: 6.45
Area: 2384110
Amount: 0.048859
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:31:03

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-150.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 23-Nov-2016 17:16:21 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:24 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk Date: 23-Nov-2016 19:37:11

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	1.078	1.086	-0.008	7378528	0.5000	0.5000	
2	1.093	1.095	-0.003	36352610	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.033	2.046	-0.013	362333	0.0250	0.0238	M
2	1.751	1.756	-0.005	1534548	0.0250	0.0250	M
							RPD = 5.10

\$ 15 DCB Decachlorobiphenyl

1	6.753	6.759	-0.007	254894	0.0250	0.0250	
2	6.454	6.469	-0.015	1224795	0.0250	0.0251	M
							RPD = 0.54

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002	Amount Added: 0.50	Units: mL	
PCB IS 1B2NB_00020	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 23-Nov-2016 20:37:26

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-150.D

Injection Date: 23-Nov-2016 17:16:21

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD6

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

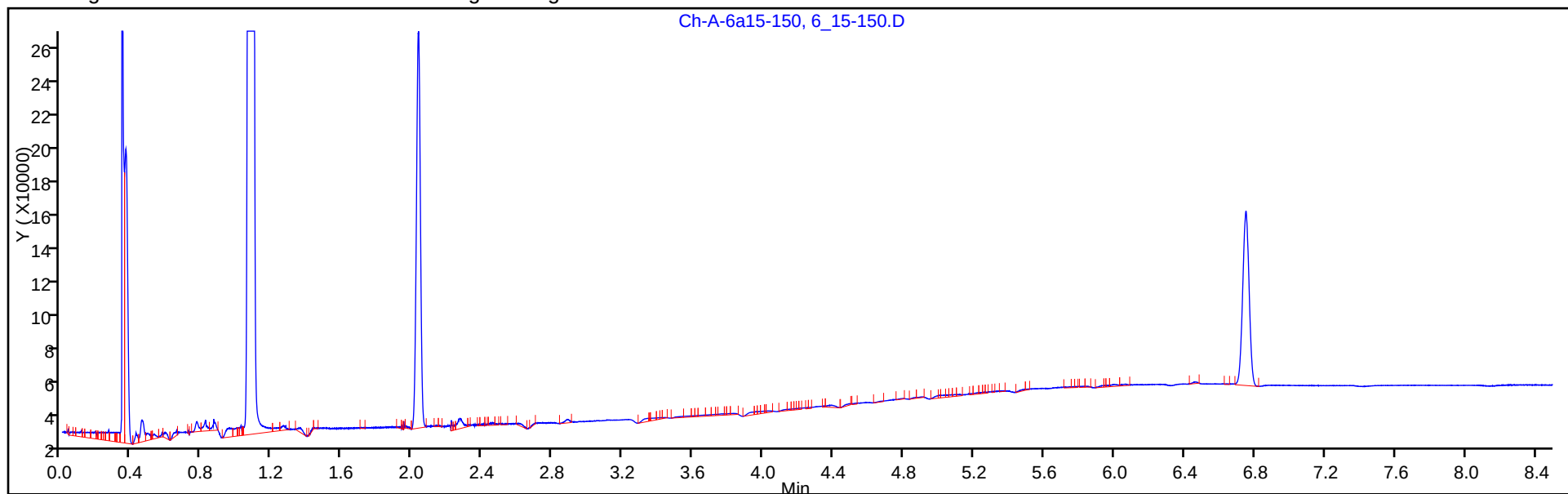
Dil. Factor: 1.0000

ALS Bottle#: 0

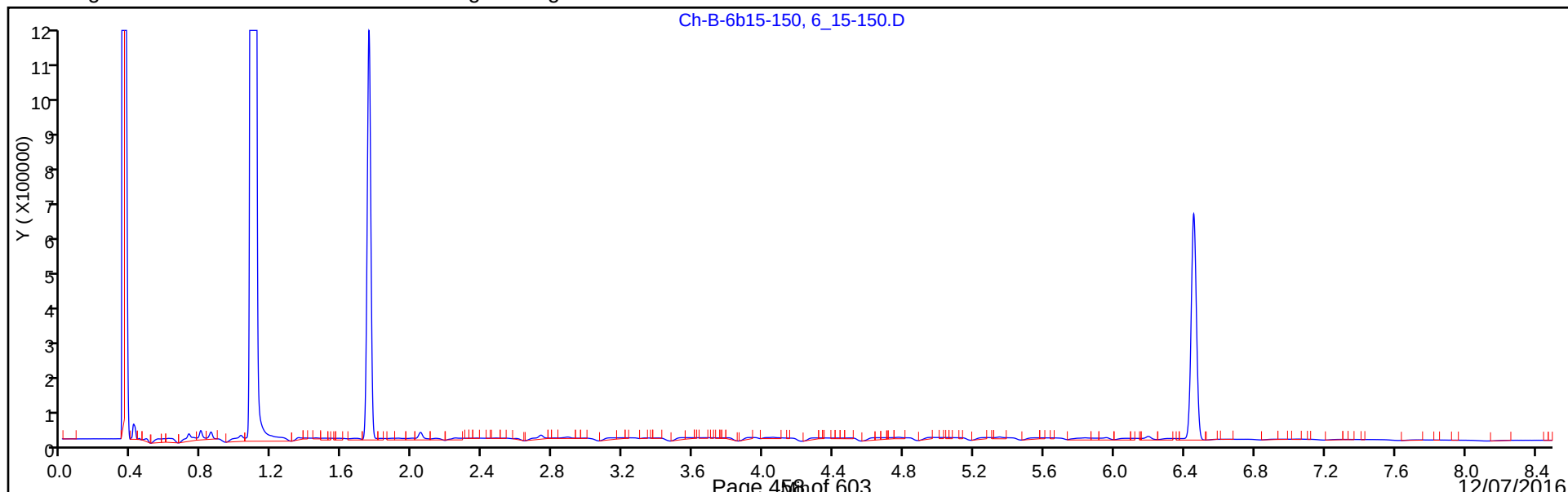
Method: 6890-6 PCB

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

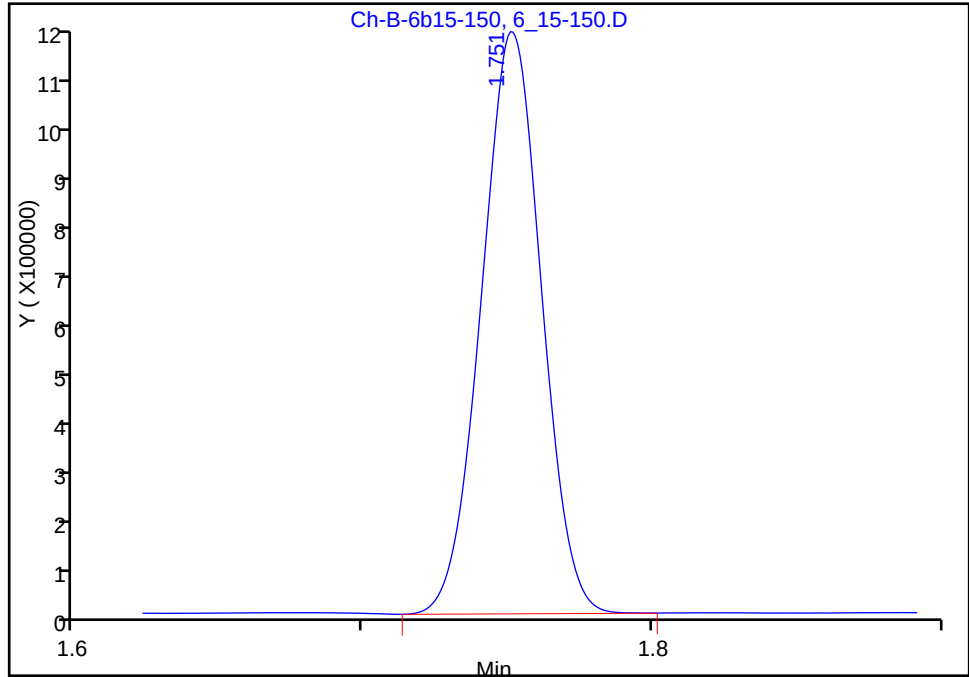
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-150.D		
Injection Date:	23-Nov-2016 17:16:21	Instrument ID:	HP6890-6
Lims ID:	STD6		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0 Worklist Smp#: 3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector	Ch-B-7b136

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

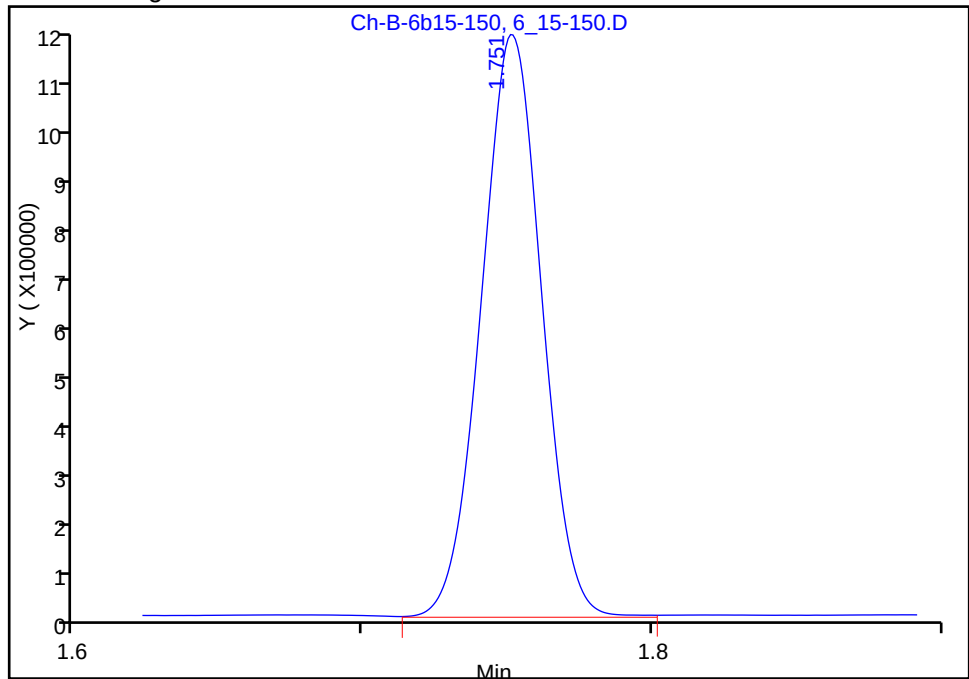
RT: 1.75
Area: 1522422
Amount: 0.026077
Amount Units: ng/uL

Processing Integration Results



RT: 1.75
Area: 1534548
Amount: 0.025044
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:31:19

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

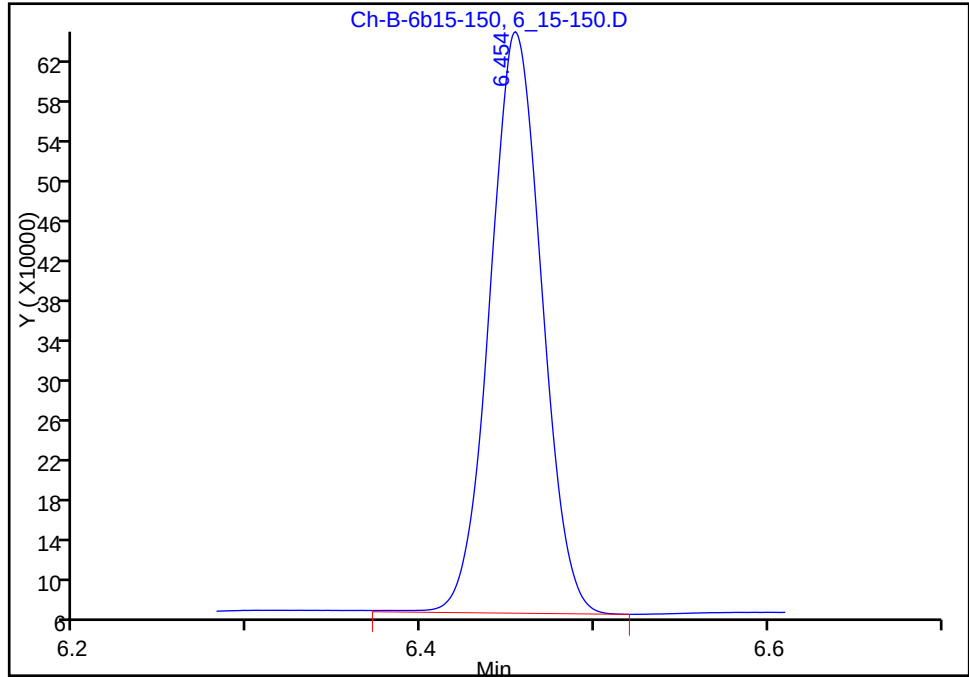
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-150.D		
Injection Date:	23-Nov-2016 17:16:21	Instrument ID:	HP6890-6
Lims ID:	STD6		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector	Ch-B-7b136
		Worklist Smp#:	3

\$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

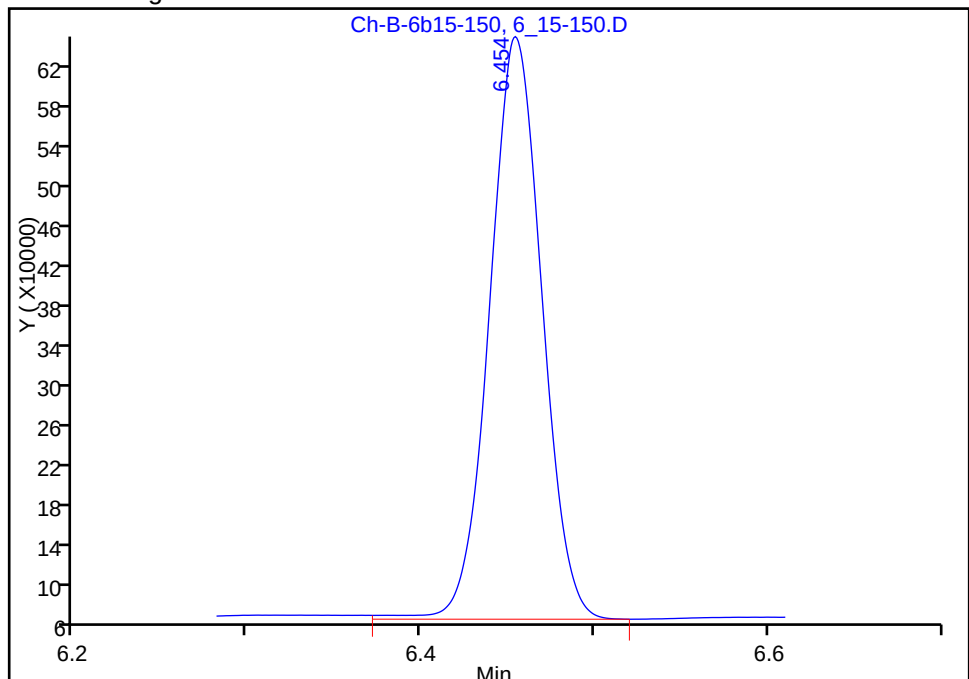
RT: 6.45
Area: 1213550
Amount: 0.025026
Amount Units: ng/uL

Processing Integration Results



RT: 6.45
Area: 1224795
Amount: 0.025091
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:31:19

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-151.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 23-Nov-2016 17:32:23 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:27 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk

Date: 23-Nov-2016 17:54:48

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	1.078	1.086	-0.008	7474765	0.5000	0.5000	
2	1.093	1.095	-0.002	36416535	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.035	2.046	-0.011	149201	0.0125	0.009674	a
2	1.753	1.756	-0.004	756104	0.0125	0.0123	M
RPD = 24.05							

\$ 15 DCB Decachlorobiphenyl

1	6.754	6.759	-0.005	131933	0.0125	0.0125	
2	6.459	6.469	-0.010	647644	0.0125	0.0129	M
RPD = 3.05							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002

Amount Added: 0.25

Units: mL

PCB IS 1B2NB_00020

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Nov-2016 20:37:29

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-151.D

Injection Date: 23-Nov-2016 17:32:23

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD5

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

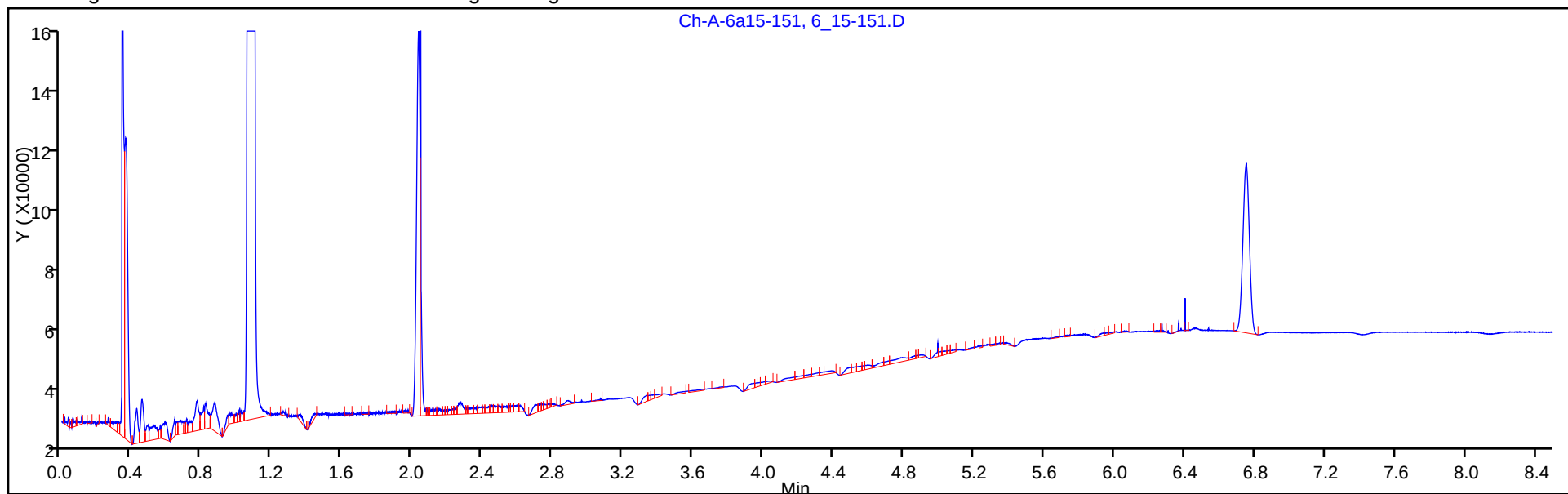
Dil. Factor: 1.0000

ALS Bottle#: 0

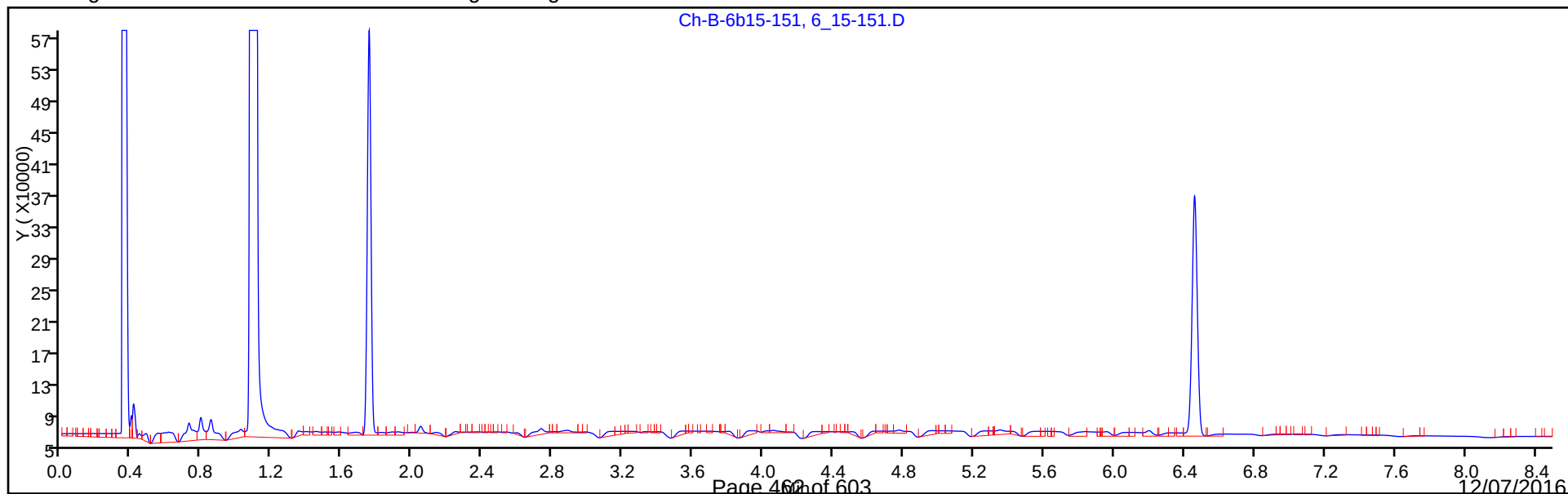
Method: 6890-6 PCB

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

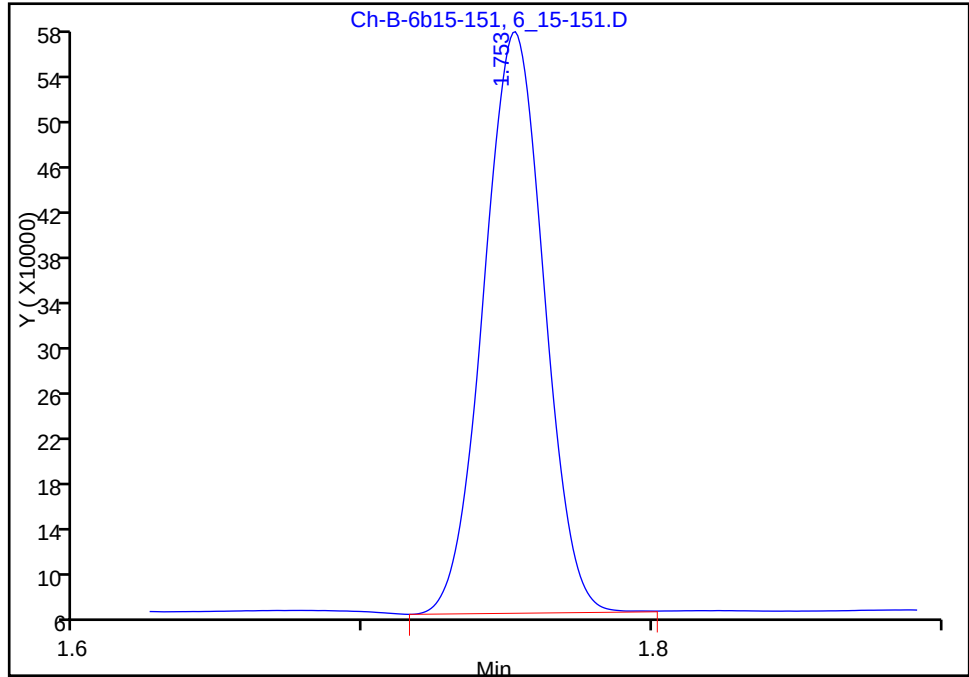
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-151.D		
Injection Date:	23-Nov-2016 17:32:23	Instrument ID:	HP6890-6
Lims ID:	STD5		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector	Ch-B-7b136
		Worklist Smp#:	4

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

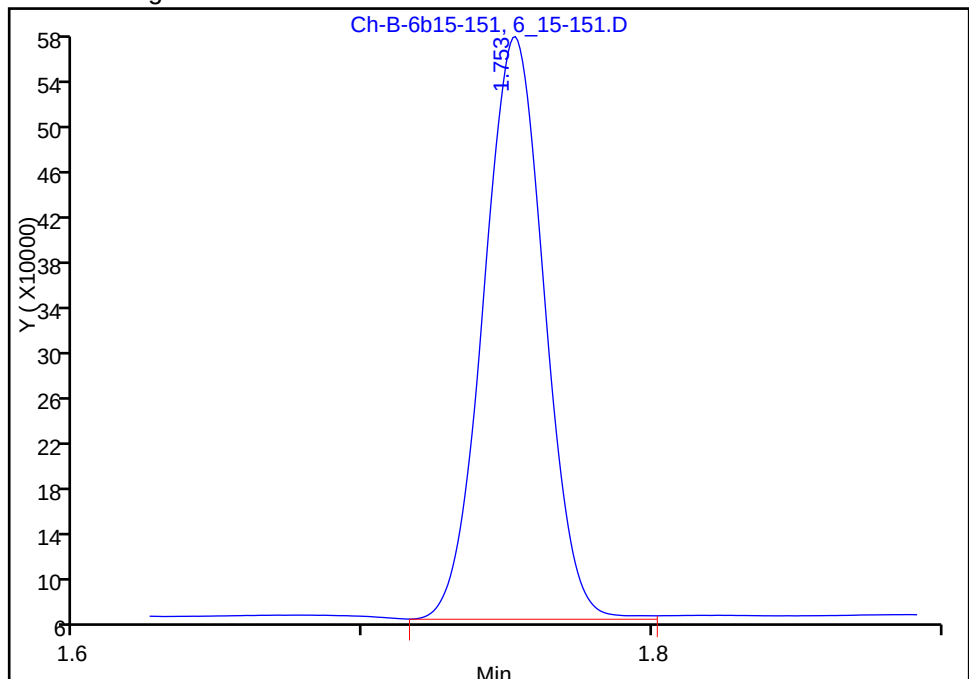
RT: 1.75
Area: 749409
Amount: 0.012662
Amount Units: ng/uL

Processing Integration Results



RT: 1.75
Area: 756104
Amount: 0.012318
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:31:32

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

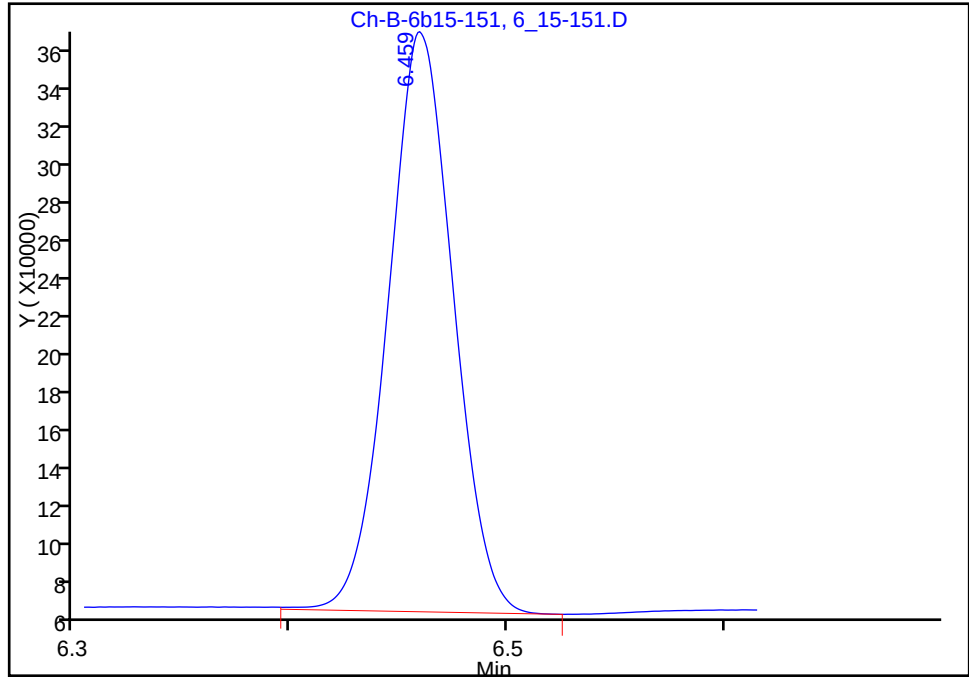
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-151.D				
Injection Date:	23-Nov-2016 17:32:23	Instrument ID:	HP6890-6		
Lims ID:	STD5				
Client ID:					
Operator ID:	BuFTCHROM	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

\$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

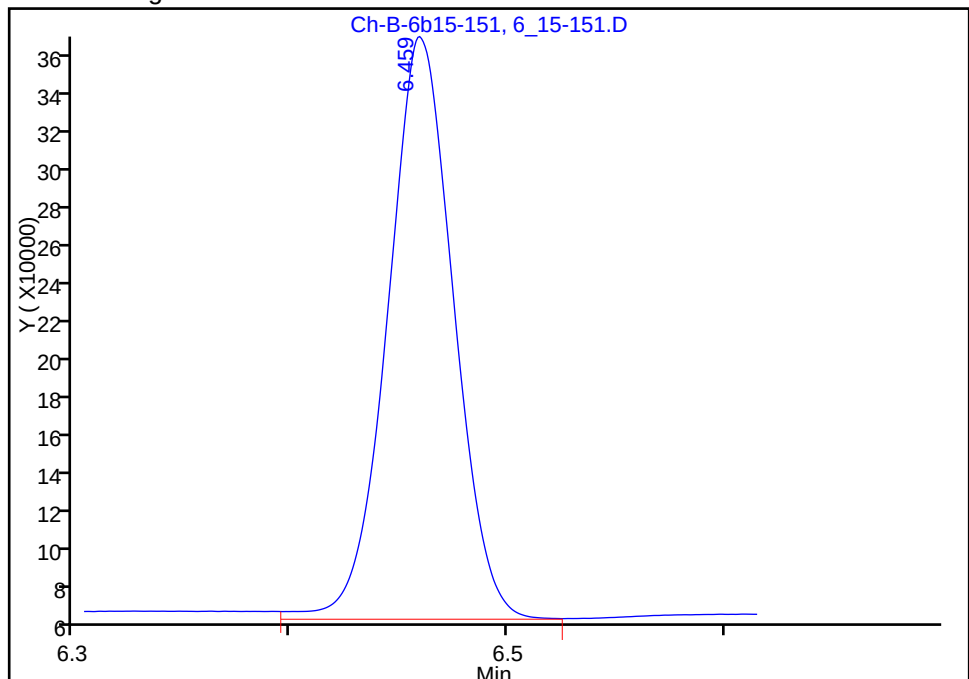
RT: 6.46
Area: 634743
Amount: 0.012794
Amount Units: ng/uL

Processing Integration Results



RT: 6.46
Area: 647644
Amount: 0.012918
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:31:32

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-152.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 23-Nov-2016 17:48:21 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:30 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk

Date: 23-Nov-2016 19:26:31

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	1.079	1.086	-0.007	7359400	0.5000	0.5000	
2	1.093	1.095	-0.002	35620106	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

M

1	2.033	2.046	-0.013	78767	0.005000	0.005187	
2	1.753	1.756	-0.004	318672	0.005000	0.005308	M
RPD = 2.30							

\$ 15 DCB Decachlorobiphenyl

M

1	6.752	6.759	-0.007	57881	0.005000	0.005333	
2	6.462	6.469	-0.007	285963	0.005000	0.005452	M
RPD = 2.20							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002

Amount Added: 0.10

Units: mL

PCB IS 1B2NB_00020

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Nov-2016 20:37:32

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-152.D

Injection Date: 23-Nov-2016 17:48:21

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD4

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

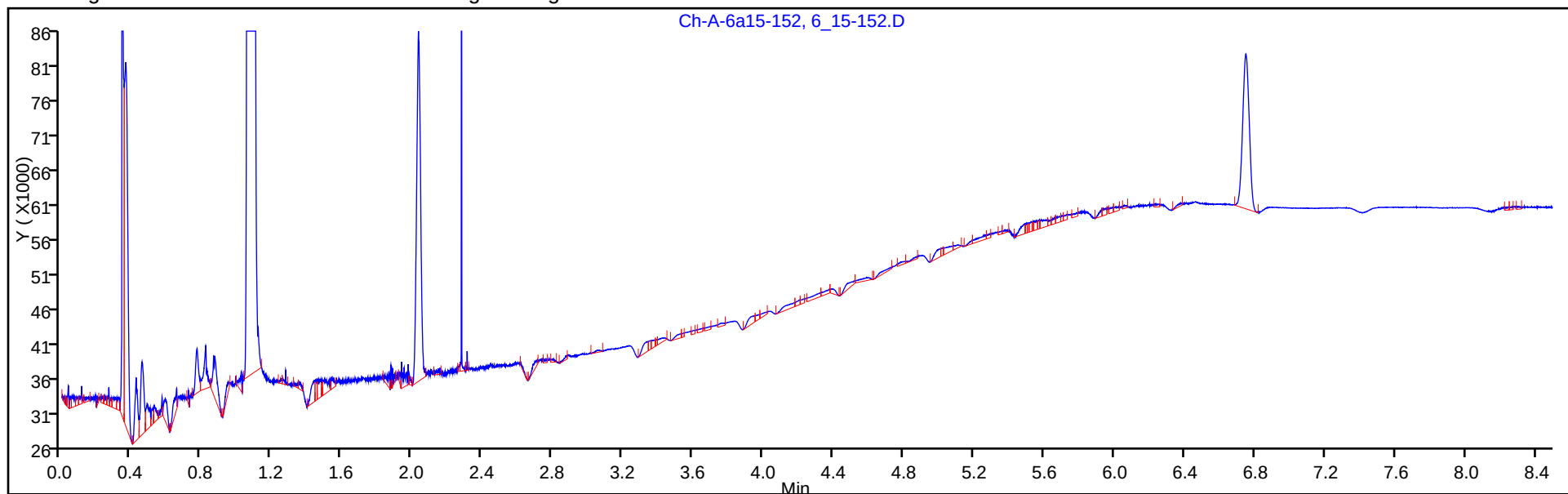
Dil. Factor: 1.0000

ALS Bottle#: 0

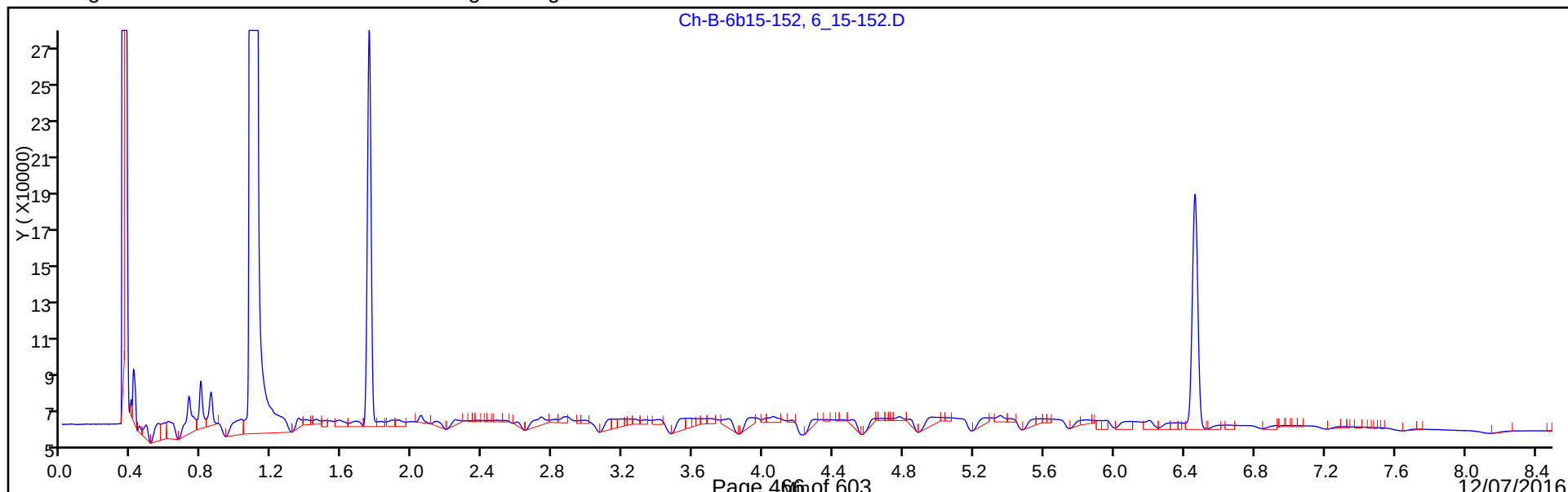
Method: 6890-6 PCB

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

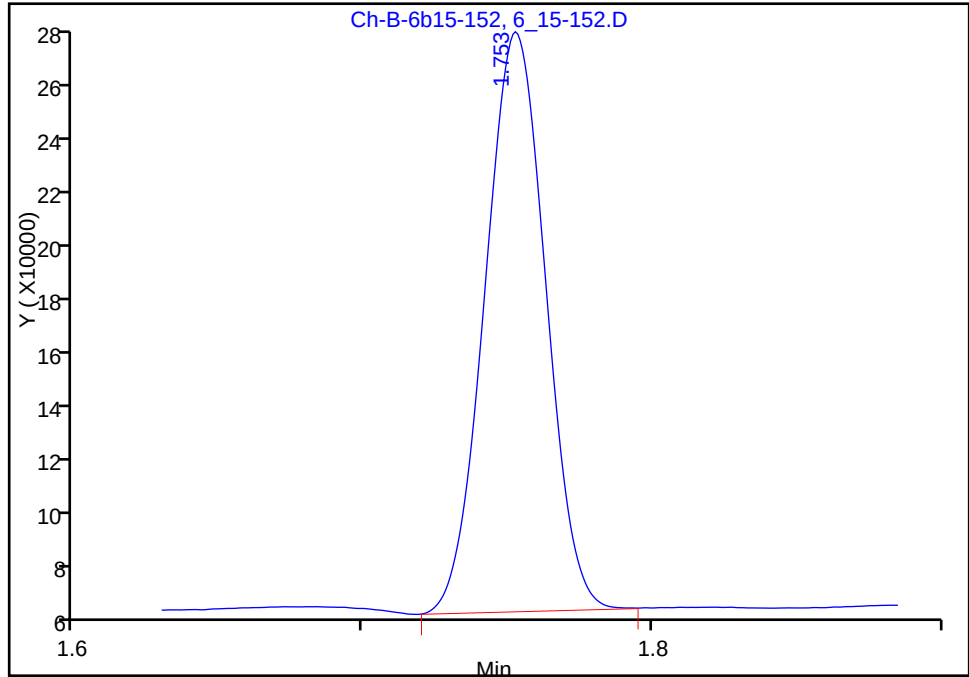
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-152.D		
Injection Date:	23-Nov-2016 17:48:21	Instrument ID:	HP6890-6
Lims ID:	STD4		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector:	Ch-B-7b136
		Worklist Smp#:	5

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

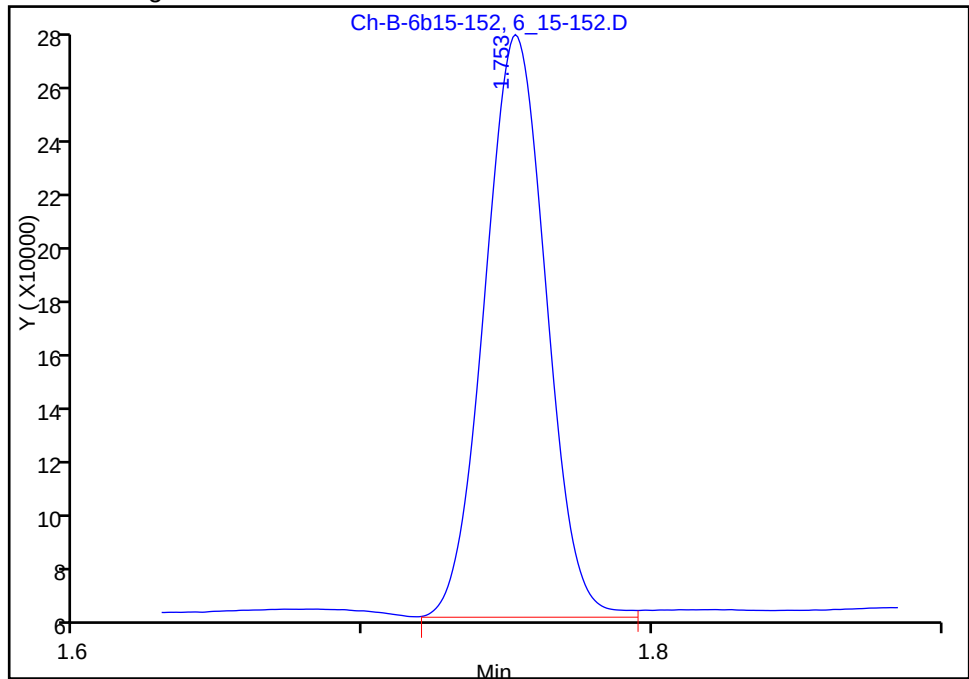
RT: 1.75
Area: 313090
Amount: 0.005464
Amount Units: ng/uL

Processing Integration Results



RT: 1.75
Area: 318672
Amount: 0.005308
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:31:44

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

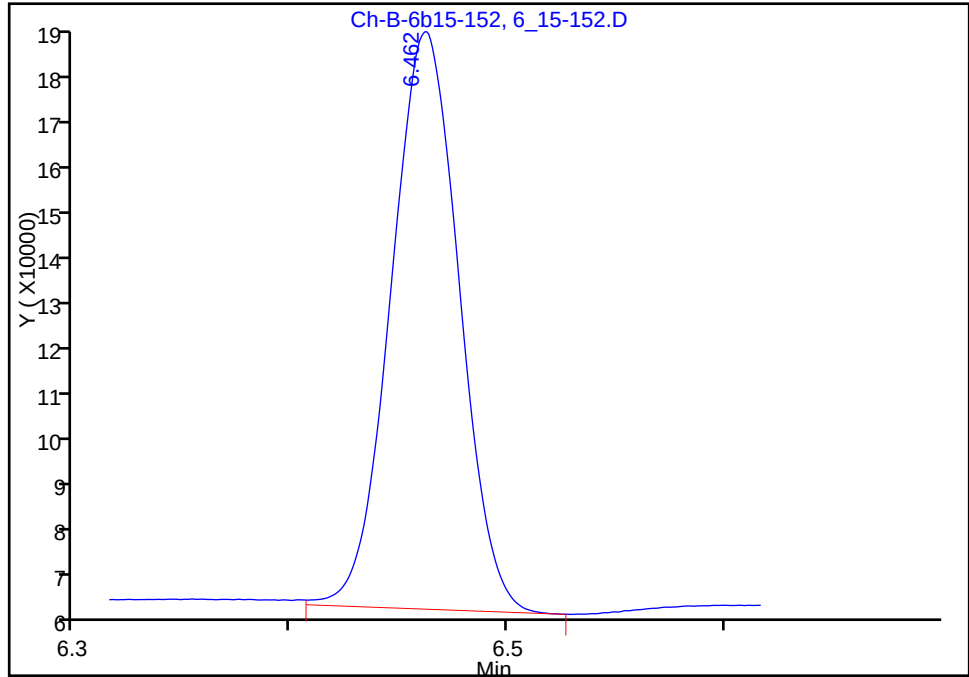
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-152.D		
Injection Date:	23-Nov-2016 17:48:21	Instrument ID:	HP6890-6
Lims ID:	STD4		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0 Worklist Smp#: 5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector	Ch-B-7b136

\$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

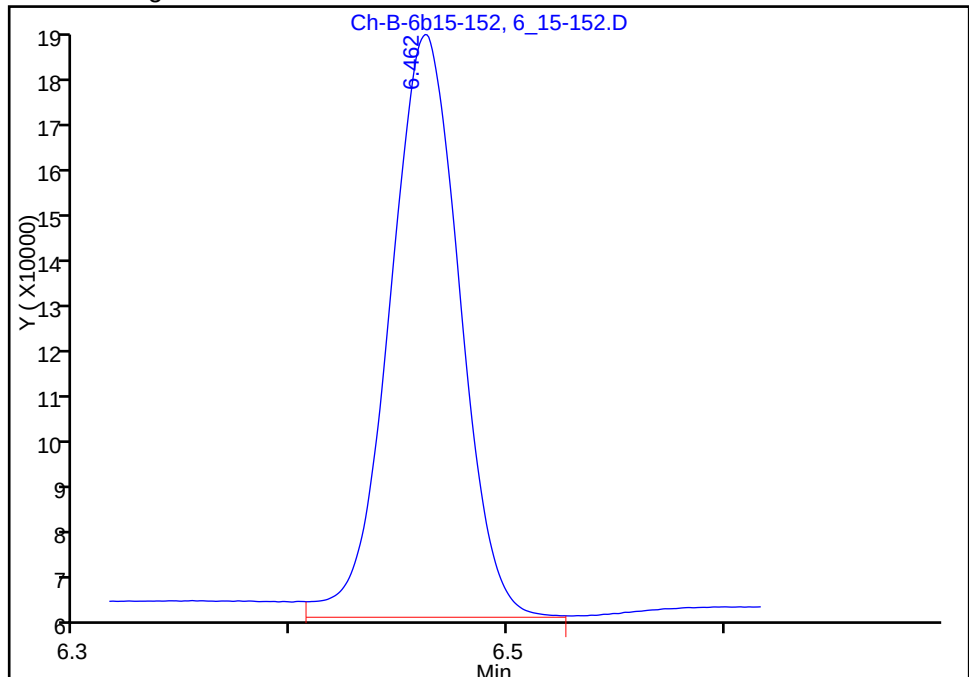
RT: 6.46
Area: 276359
Amount: 0.005400
Amount Units: ng/uL

Processing Integration Results



RT: 6.46
Area: 285963
Amount: 0.005452
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:31:44

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-153.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 23-Nov-2016 18:04:22 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:33 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk Date: 23-Nov-2016 20:33:37

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	1.078	1.086	-0.008	7348102	0.5000	0.5000	
2	1.093	1.095	-0.003	35352434	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.036	2.046	-0.010	37458	0.002500	0.002471	M
2	1.752	1.756	-0.004	122415	0.002500	0.002054	M
							RPD = 18.40

\$ 15 DCB Decachlorobiphenyl

1	6.752	6.759	-0.007	33264	0.002500	0.002878	M
2	6.463	6.469	-0.006	157292	0.002500	0.002713	M
							RPD = 5.90

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002	Amount Added: 0.05	Units: mL	
PCB IS 1B2NB_00020	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 23-Nov-2016 20:37:35

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-153.D

Injection Date: 23-Nov-2016 18:04:22

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD3

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

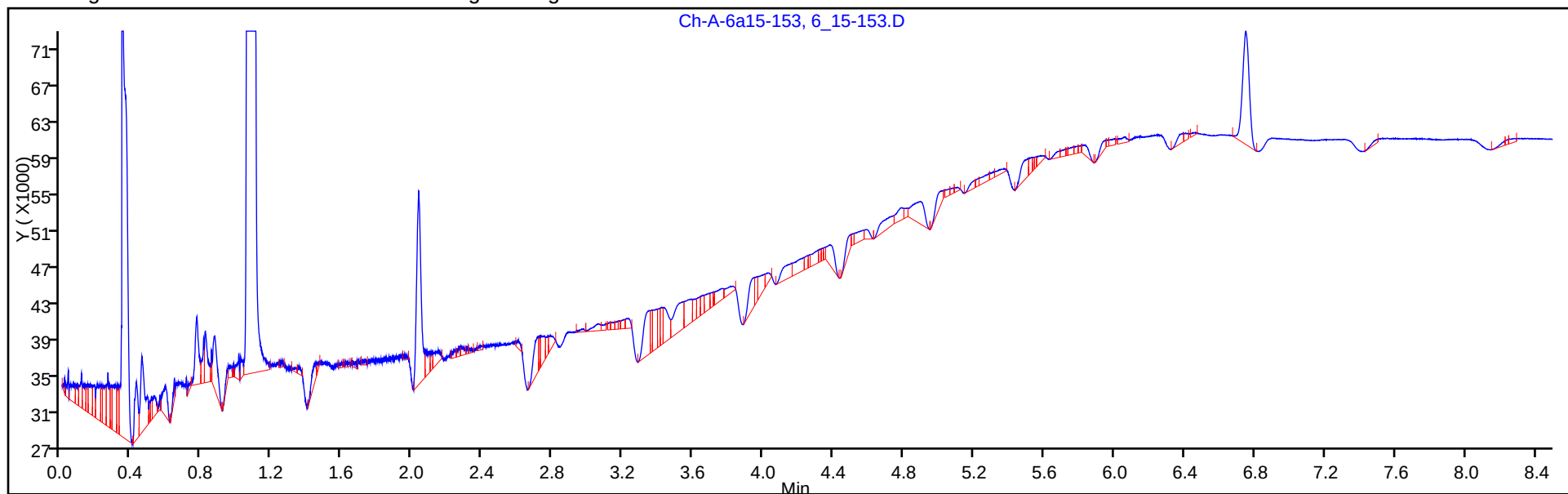
Dil. Factor: 1.0000

ALS Bottle#: 0

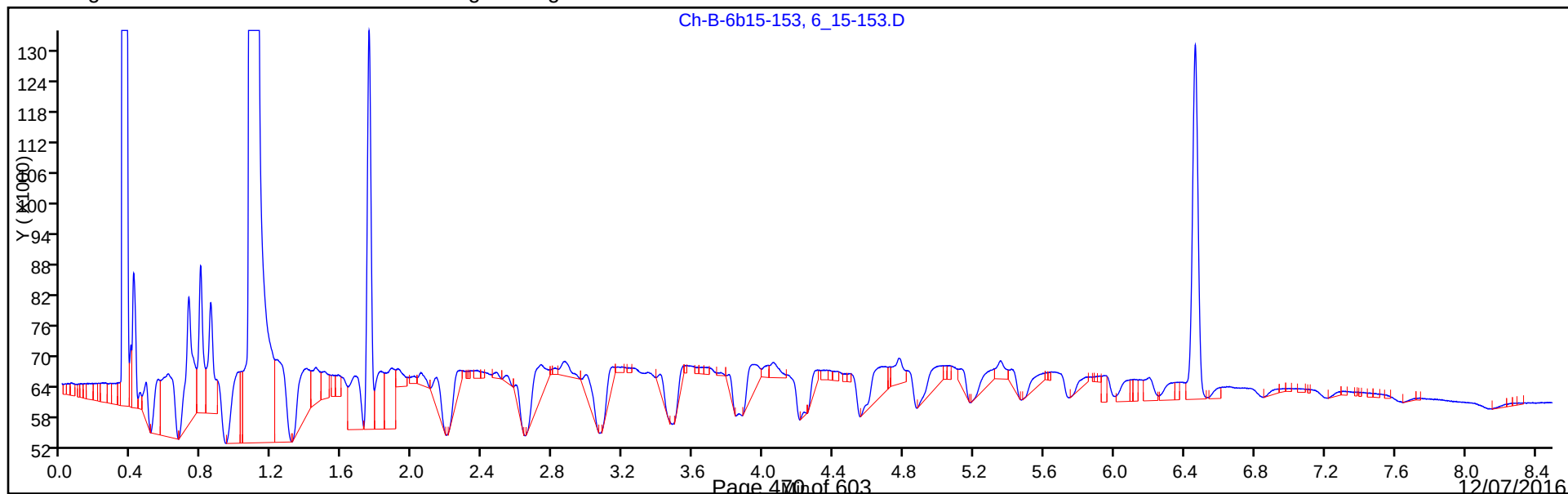
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-153.D

Injection Date: 23-Nov-2016 18:04:22

Instrument ID: HP6890-6

Lims ID: STD3

Client ID:

Operator ID: BufTCHROM

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 6890-6 PCB

Limit Group:

GC - 8082A PCB IS ICAL

Column:

Detector

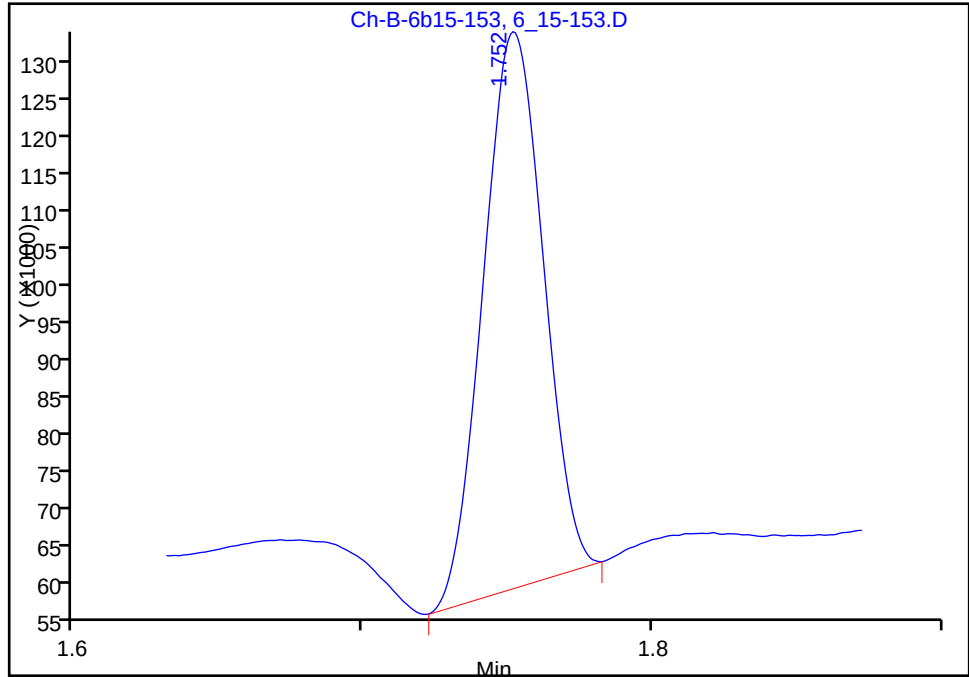
Ch-B-7b136

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

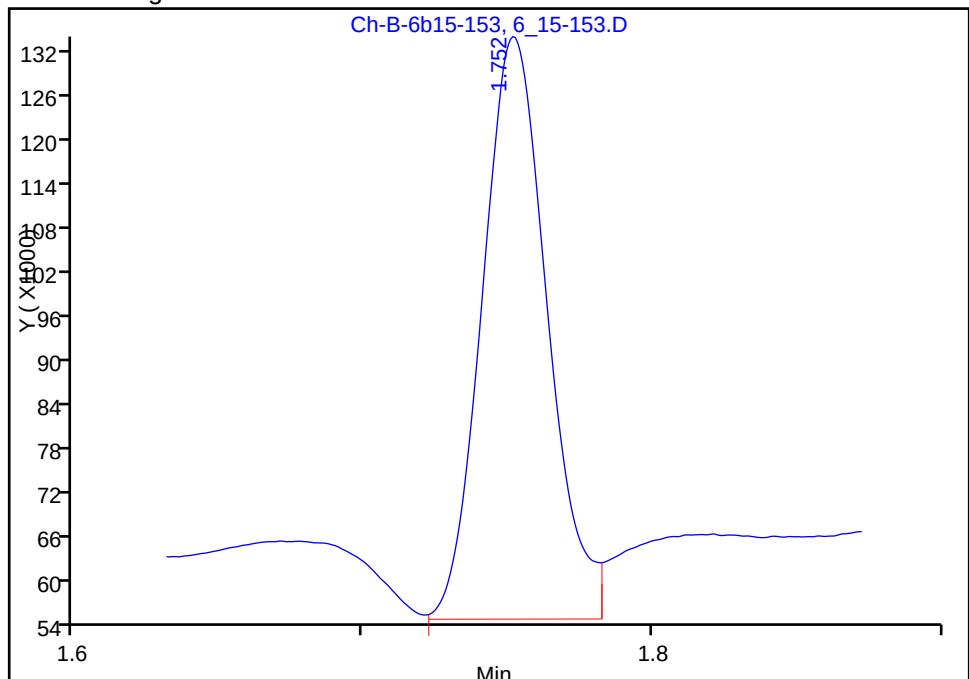
RT: 1.75
Area: 107826
Amount: 0.001830
Amount Units: ng/uL

Processing Integration Results



RT: 1.75
Area: 122415
Amount: 0.002054
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:33:37

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

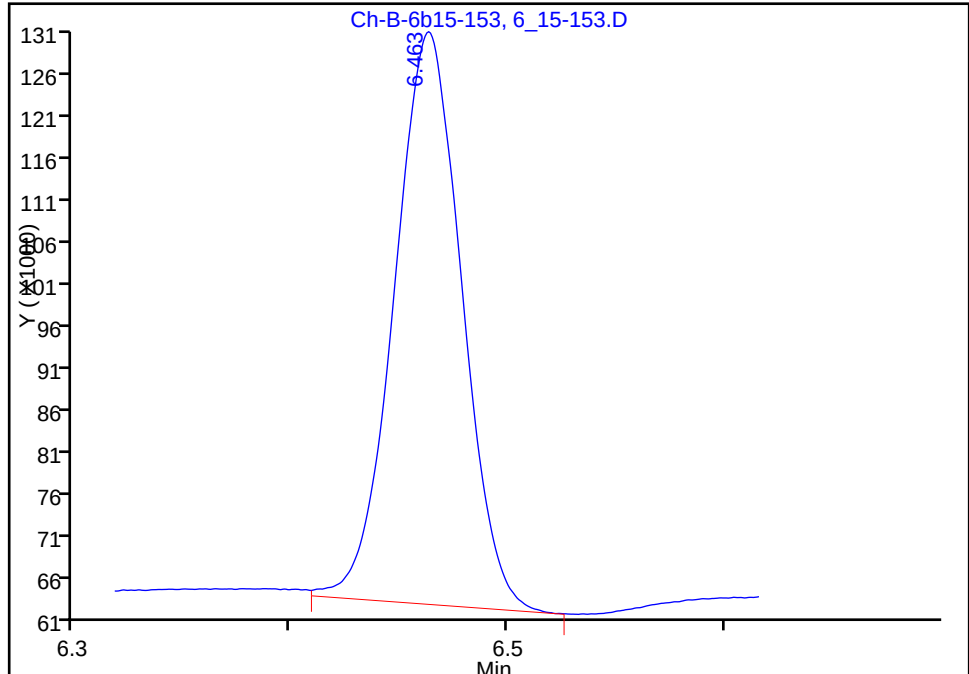
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-153.D				
Injection Date:	23-Nov-2016 18:04:22	Instrument ID:	HP6890-6		
Lims ID:	STD3				
Client ID:					
Operator ID:	BuFTCHROM	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

\$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

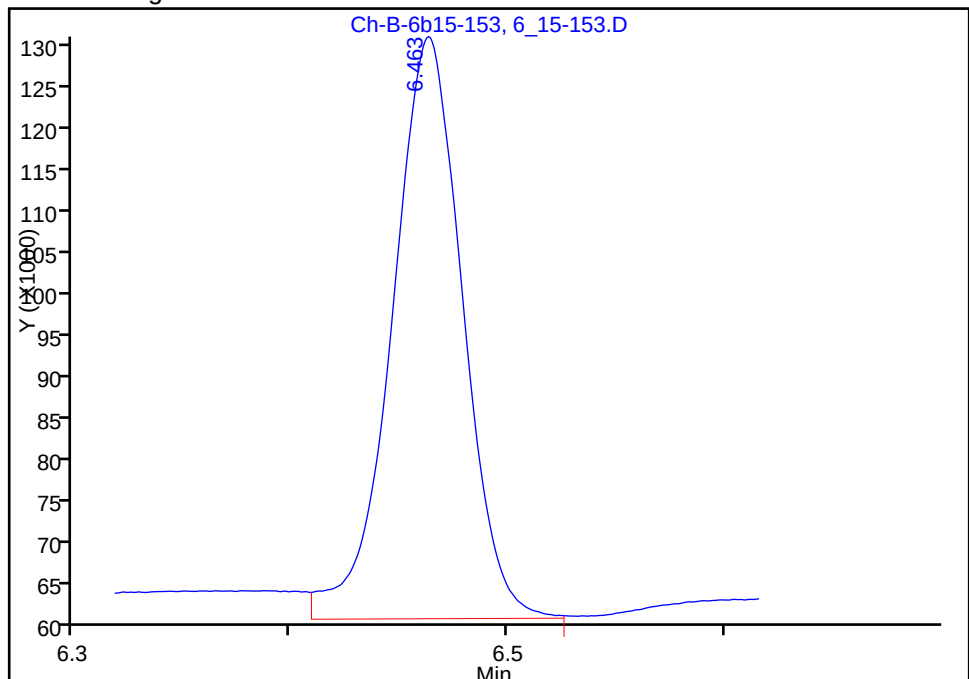
RT: 6.46
Area: 147523
Amount: 0.002526
Amount Units: ng/uL

Processing Integration Results



RT: 6.46
Area: 157292
Amount: 0.002713
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:33:37

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-154.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 23-Nov-2016 18:20:18 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:36 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk Date: 23-Nov-2016 20:33:24

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	1.078	1.086	-0.008	7285667	0.5000	0.5000	
2	1.093	1.095	-0.003	34848526	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.032	2.046	-0.014	21384	0.001250	0.001423	M
2	1.752	1.756	-0.004	79953	0.001250	0.001361	M
							RPD = 4.41

\$ 15 DCB Decachlorobiphenyl

1	6.753	6.759	-0.007	18106	0.001250	0.001376	M
2	6.464	6.469	-0.005	93159	0.001250	0.001354	M
							RPD = 1.63

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002	Amount Added: 0.03	Units: mL	
PCB IS 1B2NB_00020	Amount Added: 20.00	Units: uL	Run Reagent

Report Date: 23-Nov-2016 20:37:38

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-154.D

Injection Date: 23-Nov-2016 18:20:18

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD2

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

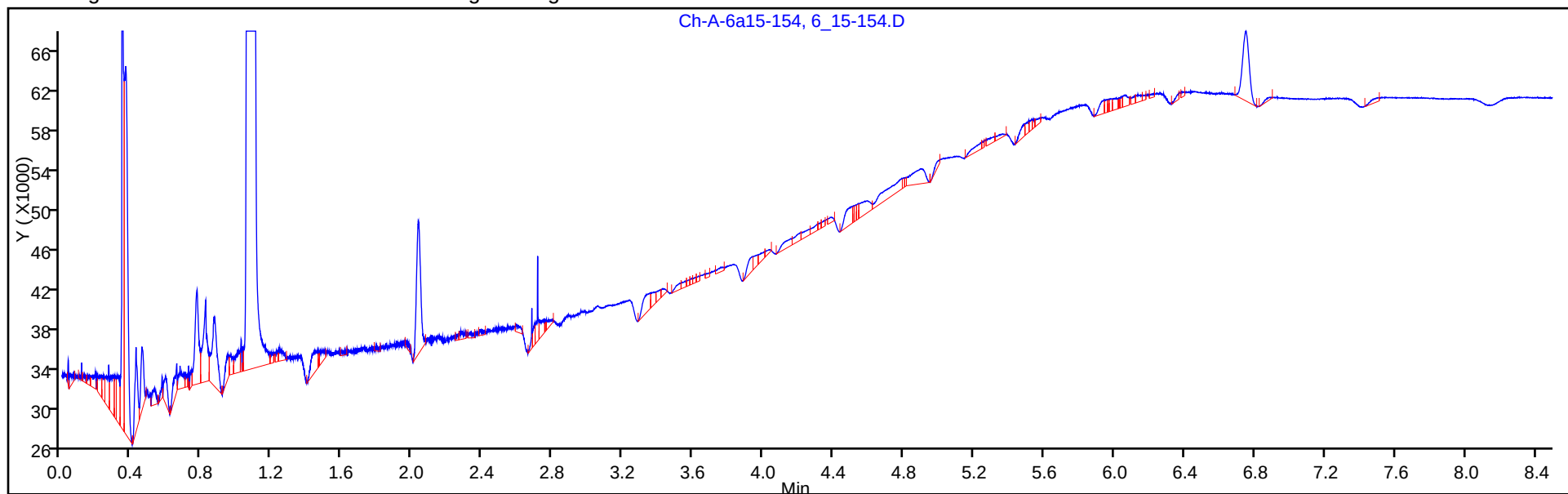
Dil. Factor: 1.0000

ALS Bottle#: 0

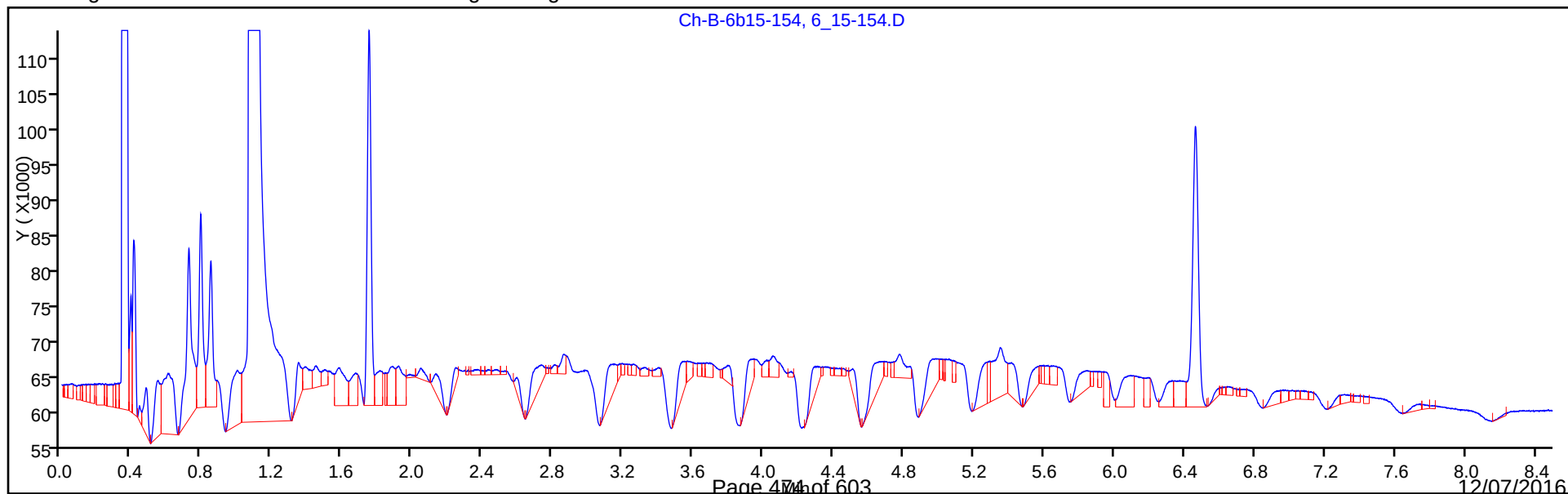
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-154.D

Injection Date: 23-Nov-2016 18:20:18

Instrument ID: HP6890-6

Lims ID: STD2

Client ID:

Operator ID: BufTCHROM

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 6890-6 PCB

Limit Group:

GC - 8082A PCB IS ICAL

Column:

Detector

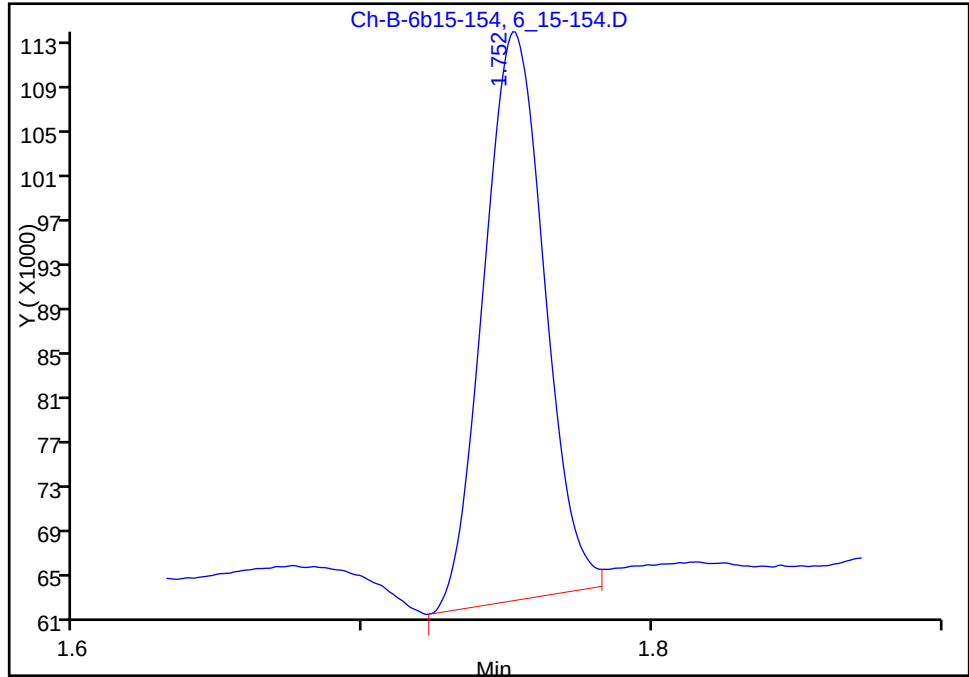
Ch-B-7b136

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

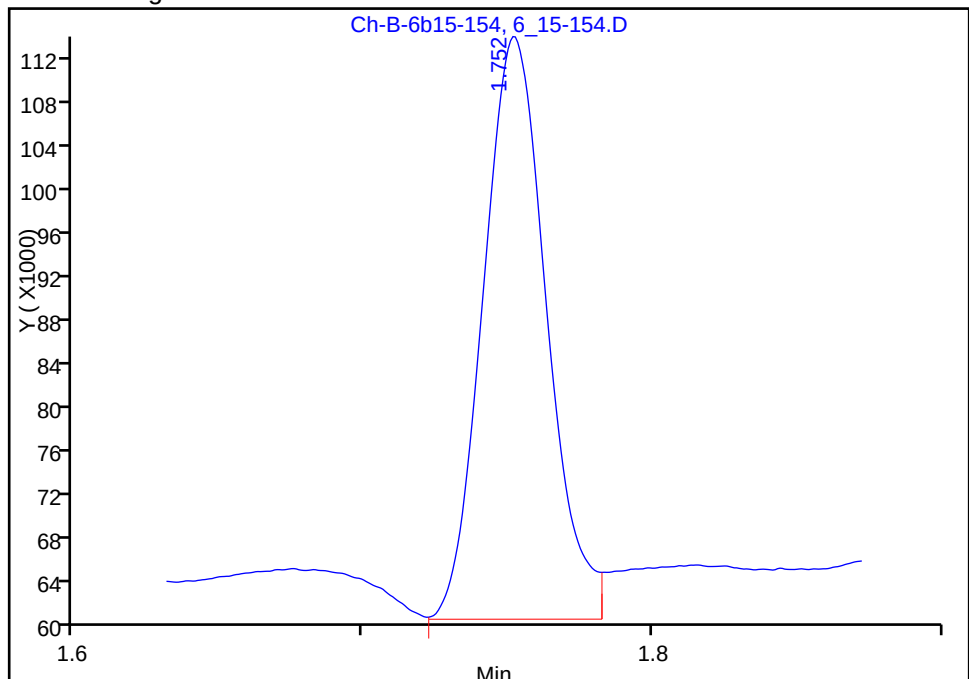
RT: 1.75
Area: 74803
Amount: 0.001290
Amount Units: ng/uL

Processing Integration Results



RT: 1.75
Area: 79953
Amount: 0.001361
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:33:24

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

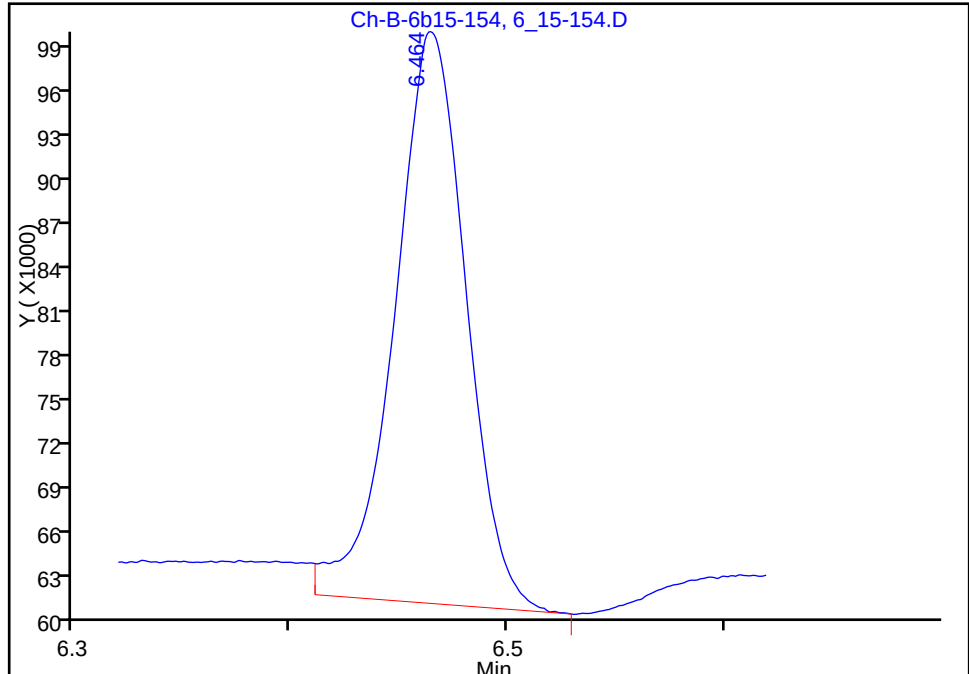
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-154.D
Injection Date: 23-Nov-2016 18:20:18 Instrument ID: HP6890-6
Lims ID: STD2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

\$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

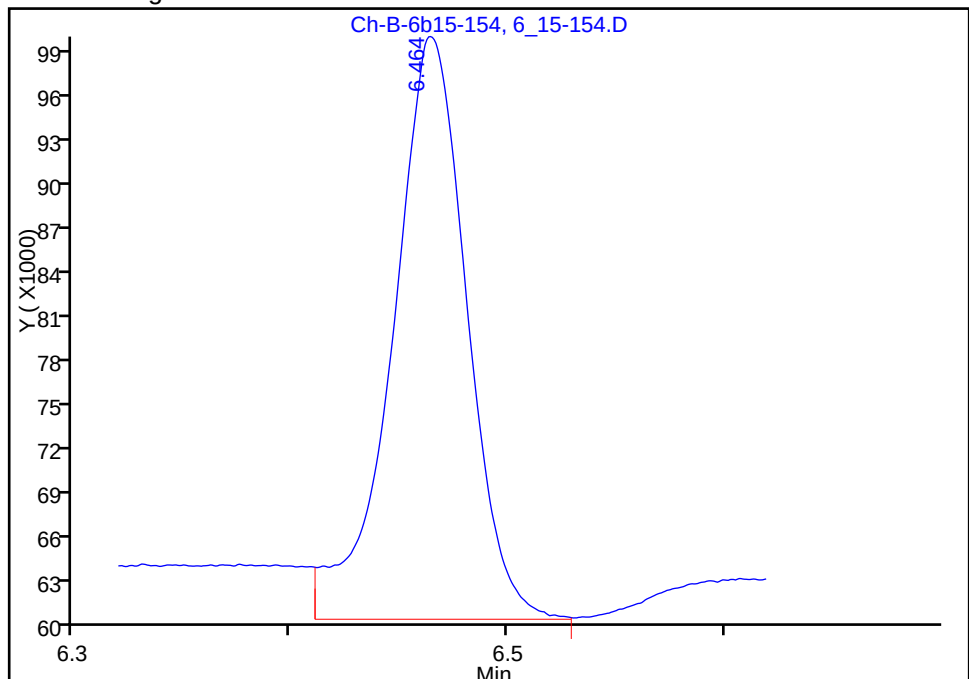
RT: 6.46
Area: 87777
Amount: 0.001286
Amount Units: ng/uL

Processing Integration Results



RT: 6.46
Area: 93159
Amount: 0.001354
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:33:24

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 23-Nov-2016 18:36:16 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub21
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 23-Nov-2016 20:37:39 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK034

First Level Reviewer: sobolk

Date: 23-Nov-2016 19:29:42

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	1.078	1.078	0.000	7445123	0.5000	0.5000	
2	1.093	1.093	0.000	35391964	0.5000	0.5000	

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.033	2.033	0.000	9380	0.000500	0.000611	M
2	1.753	1.753	0.000	33230	0.000500	0.000557	M

RPD = 9.17

\$ 15 DCB Decachlorobiphenyl

1	6.748	6.748	0.000	8086	0.000500	0.000347	M
2	6.465	6.465	0.000	48813	0.000500	0.000364	M

RPD = 4.64

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

PCBsurr 0.05_00002

Amount Added: 0.01

Units: mL

PCB IS 1B2NB_00020

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Nov-2016 20:37:41

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D

Injection Date: 23-Nov-2016 18:36:16

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: STD1

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

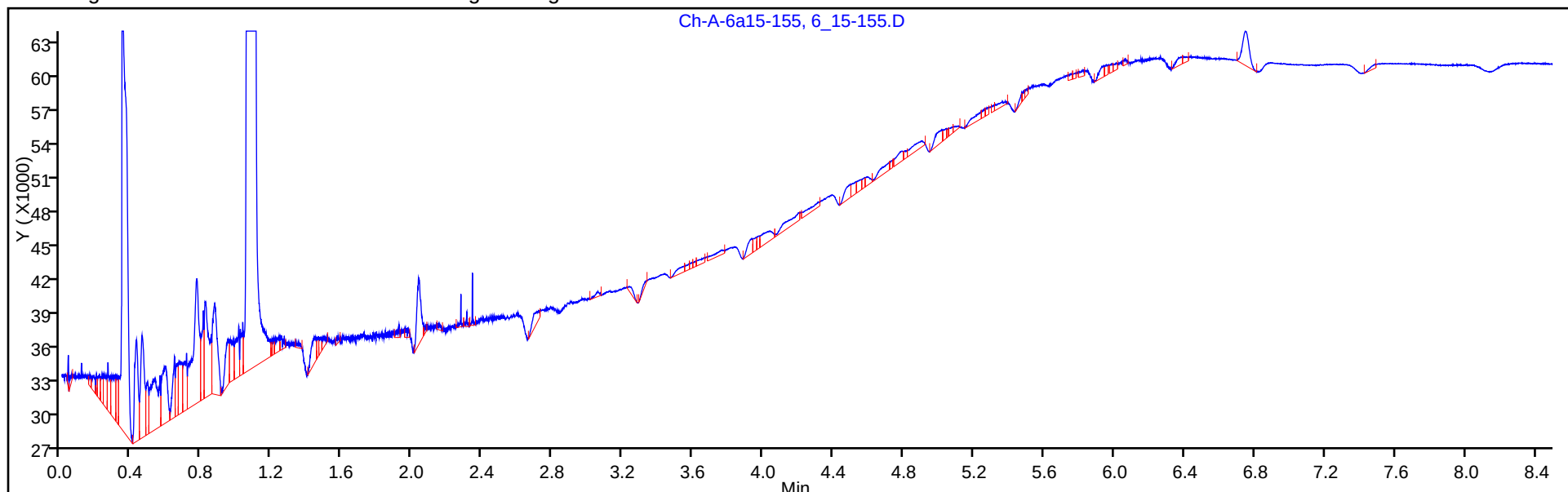
Dil. Factor: 1.0000

ALS Bottle#: 0

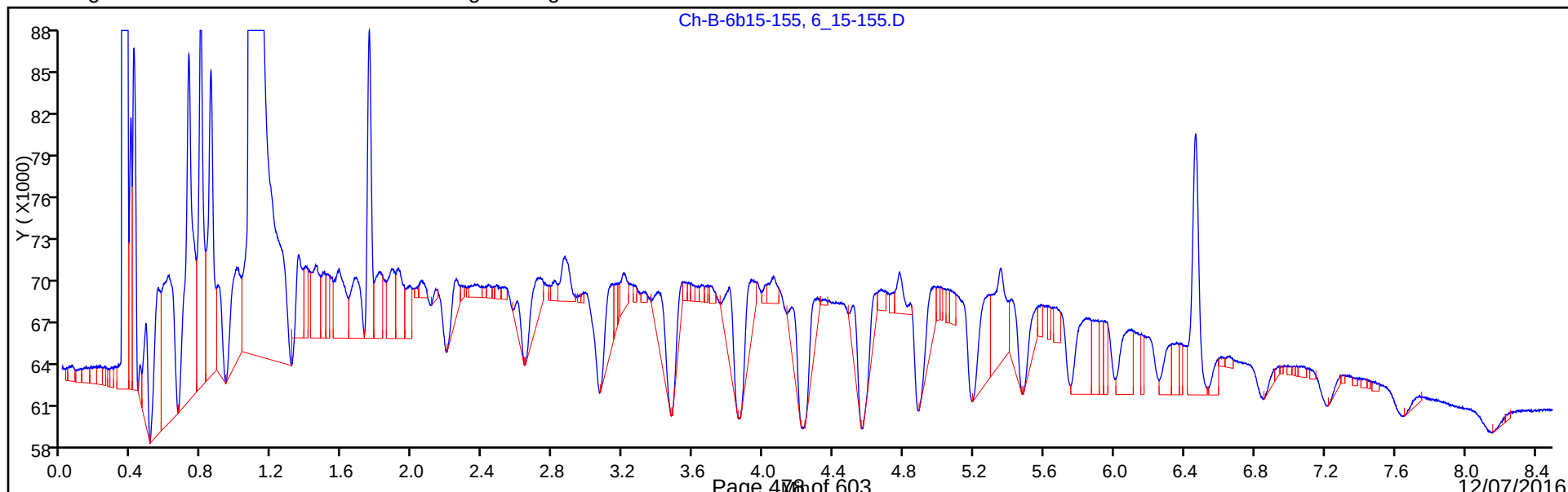
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D

Injection Date: 23-Nov-2016 18:36:16

Instrument ID: HP6890-6

Lims ID: STD1

Client ID:

Operator ID: BufTCHROM

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 6890-6 PCB

Limit Group:

GC - 8082A PCB IS ICAL

Column:

Detector

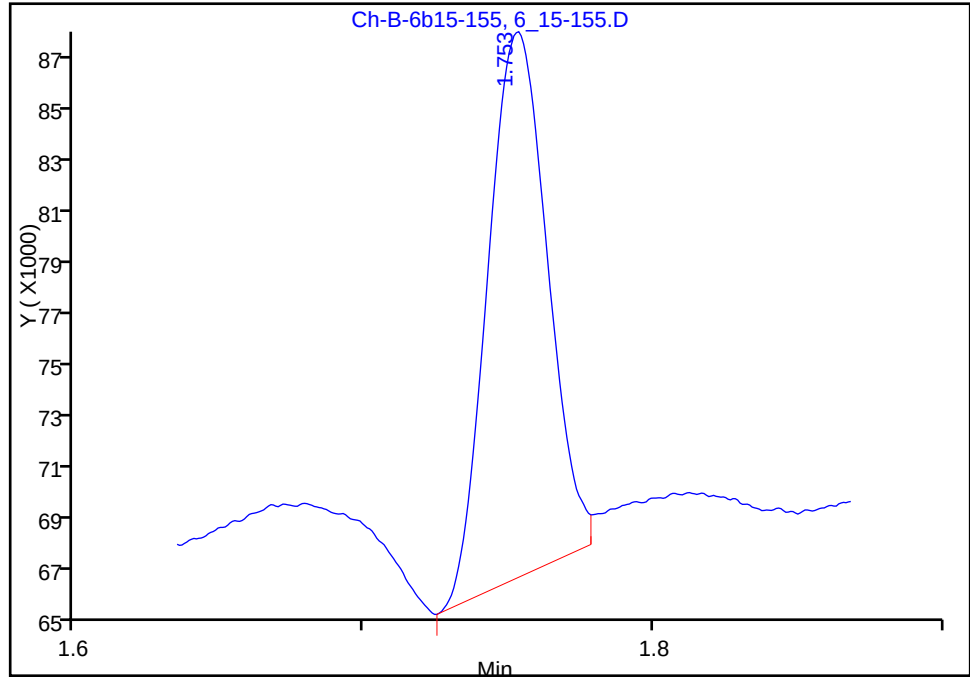
Ch-B-7b136

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

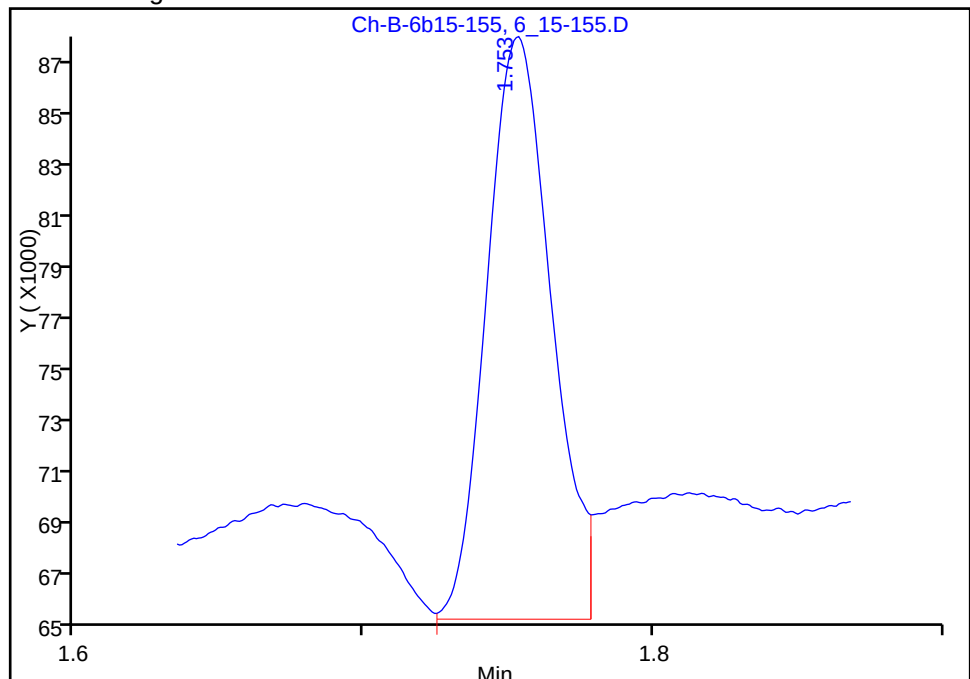
RT: 1.75
Area: 28486
Amount: 0.000507
Amount Units: ng/uL

Processing Integration Results



RT: 1.75
Area: 33230
Amount: 0.000557
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:33:10

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

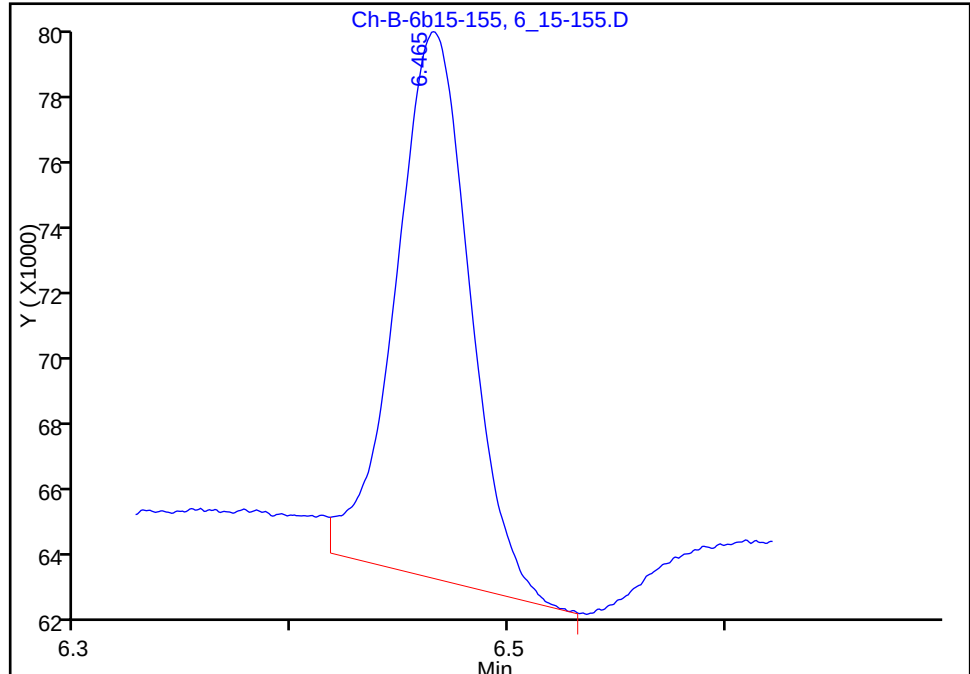
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D		
Injection Date:	23-Nov-2016 18:36:16	Instrument ID:	HP6890-6
Lims ID:	STD1		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0 Worklist Smp#: 8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector	Ch-B-7b136

\$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

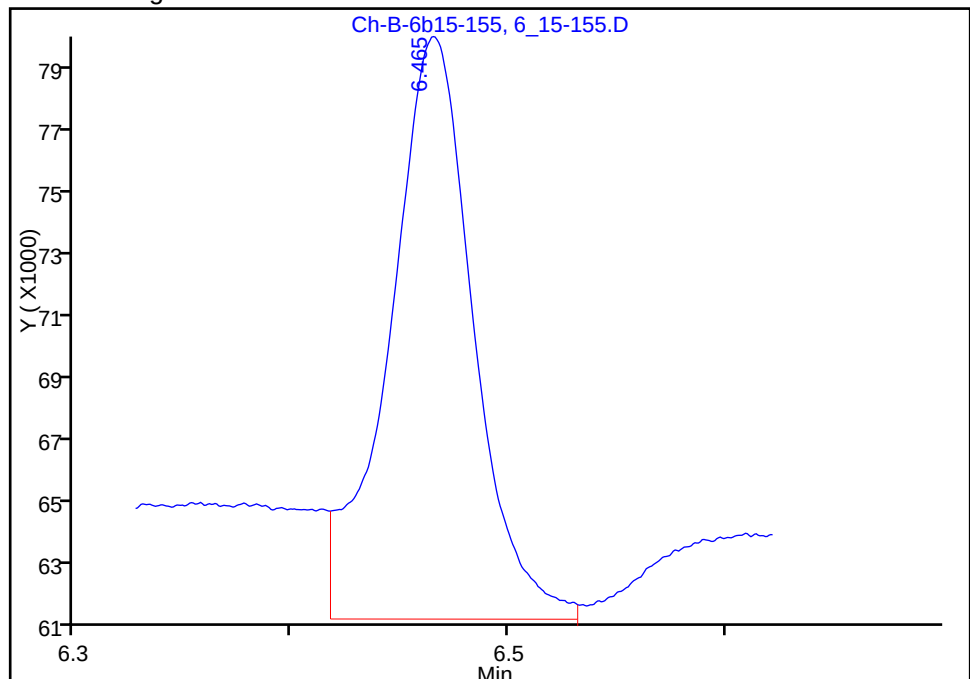
RT: 6.47
Area: 39583
Amount: 0.000340
Amount Units: ng/uL

Processing Integration Results



RT: 6.47
Area: 48813
Amount: 0.000364
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 23-Nov-2016 20:33:10
Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 480 of 603

12/07/2016

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-333712/4 Calibration Date: 11/28/2016 14:58
 Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 20:00
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 09/15/2016 21:36
 Lab File ID: 6_15-194.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	0.0376	0.0342		0.454	0.500	-9.1	20.0
PCB-1016 Peak 2	Lin1		0.0236		0.532	0.500	6.5	20.0
PCB-1016 Peak 3	Ave	0.0867	0.0829		0.478	0.500	-4.4	20.0
PCB-1016 Peak 4	Lin1		0.0301		0.540	0.500	8.0	20.0
PCB-1016 Peak 5	Lin1		0.0203		0.522	0.500	4.3	20.0
PCB-1260 Peak 1	Ave	0.0552	0.0663		0.600	0.500	20.0	20.0
PCB-1260 Peak 2	Ave	0.0305	0.0372		0.609	0.500	21.7*	20.0
PCB-1260 Peak 3	Ave	0.0280	0.0343		0.612	0.500	22.4*	20.0
PCB-1260 Peak 4	Ave	0.0639	0.0853		0.667	0.500	33.4*	20.0
PCB-1260 Peak 5	Ave	0.0303	0.0401		0.663	0.500	32.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCVIS 480-333712/4 Calibration Date: 11/28/2016 14:58
Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 20:00
GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 09/15/2016 21:36
Lab File ID: 6_15-194.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.64	2.61	2.67
PCB-1016 Peak 2	2.79	2.76	2.82
PCB-1016 Peak 3	3.00	2.97	3.03
PCB-1016 Peak 4	3.09	3.06	3.12
PCB-1016 Peak 5	3.15	3.12	3.18
PCB-1260 Peak 1	4.89	4.86	4.92
PCB-1260 Peak 2	5.02	4.99	5.05
PCB-1260 Peak 3	5.21	5.18	5.24
PCB-1260 Peak 4	5.42	5.39	5.45
PCB-1260 Peak 5	5.66	5.63	5.69

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 28-Nov-2016 14:58:23 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 28-Nov-2016 22:00:48 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 28-Nov-2016 15:50:25

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.080	1.080	0.000	8133323	0.5000	0.5000
2	1.096	1.096	0.000	39789706	0.5000	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.033	2.033	0.000	488615	0.0300	0.0291
2	1.755	1.755	0.000	2168729	0.0300	0.0323

RPD = 10.48

6 PCB-1016

1	2.637	2.637	0.000	278276	0.5000	0.4544
1	2.791	2.791	0.000	191567	0.5000	0.5325
1	3.003	3.003	0.000	674003	0.5000	0.4780
1	3.088	3.088	0.000	245167	0.5000	0.5399
1	3.150	3.150	0.000	164774	0.5000	0.5216

Average of Peak Amounts = 0.5053

2	2.525	2.525	0.000	1357138	0.5000	0.4505
2	2.851	2.851	0.000	2922594	0.5000	0.4685
2	2.971	2.971	0.000	1085846	0.5000	0.4565
2	3.068	3.068	0.000	632558	0.5000	0.4009
2	3.356	3.356	0.000	1310372	0.5000	0.4753

Average of Peak Amounts = 0.4503

RPD = 11.50

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.889	4.889	0.000	538798	0.5000	0.6000	
1	5.021	5.021	0.000	302311	0.5000	0.6085	a
1	5.209	5.209	0.000	279109	0.5000	0.6119	
1	5.417	5.417	0.000	693353	0.5000	0.6672	
1	5.656	5.656	0.000	326376	0.5000	0.6631	

Average of Peak Amounts =

0.6301

2	4.746	4.746	0.000	1649954	0.5000	0.5029	
2	4.794	4.794	0.000	1339676	0.5000	0.4692	
2	5.058	5.058	0.000	1498794	0.5000	0.5210	
2	5.196	5.196	0.000	3383617	0.5000	0.4643	
2	5.531	5.531	0.000	2136553	0.5000	0.5208	

Average of Peak Amounts =

0.4956

RPD = 23.89

9 1260 Res 1

1	5.656	5.656	0.000	326376	NR	NR	
2	5.058	5.058	0.000	1498794	NR	NR	

RPD = NaN

14 1260 Res 2

1	5.716	5.716	0.000	146121	NR	NR	
2	5.126	5.126	0.000	1087658	NR	NR	

RPD = NaN

12 1260 Res 3

1	5.759	5.759	0.000	177739	NR	NR	
2	5.196	5.196	0.000	3383617	NR	NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.730	6.730	0.000	312998	0.0300	0.0279	
2	6.459	6.459	0.000	1631178	0.0300	0.0307	

RPD = 9.66

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

s - Failed ISTD Recovery Test

Reagents:

AR1660_0.5+IS_00007

Amount Added: 1.00

Units: mL

Report Date: 28-Nov-2016 22:00:49

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D

Injection Date: 28-Nov-2016 14:58:23

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCVIS

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

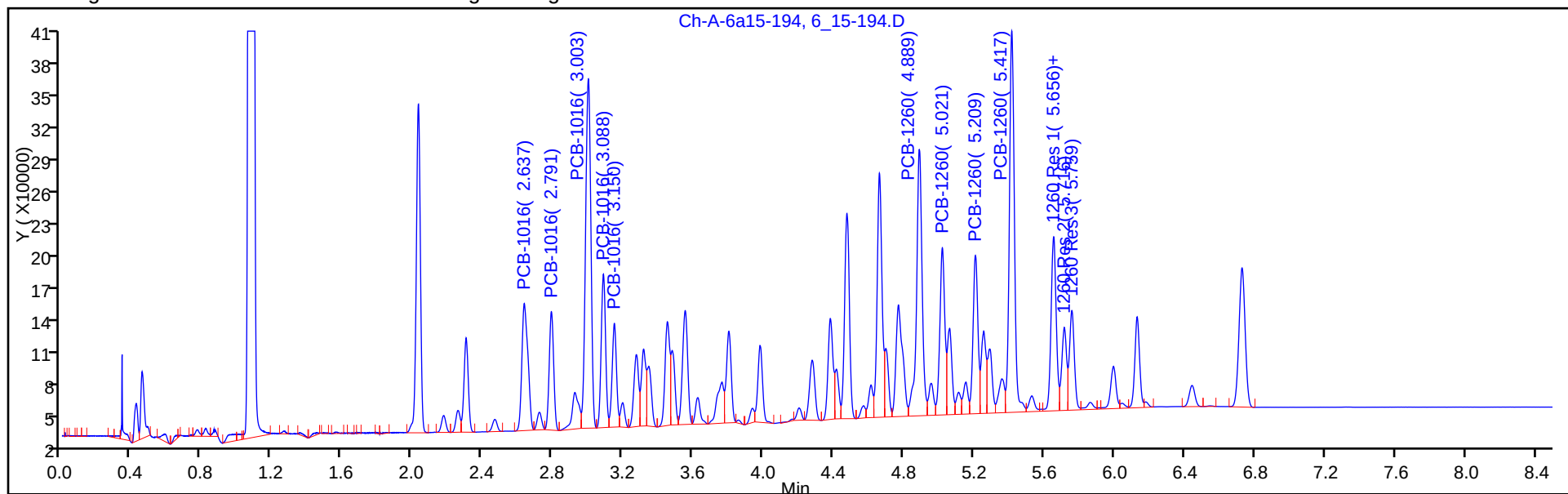
Dil. Factor: 1.0000

ALS Bottle#: 0

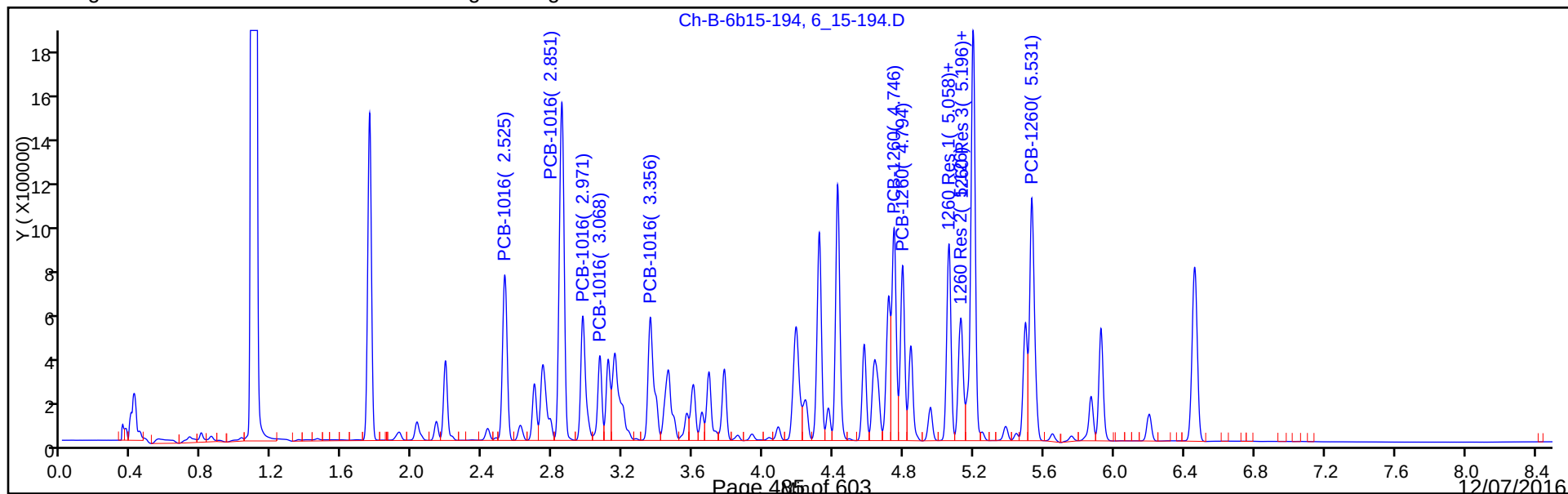
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCVIS 480-333712/4 Calibration Date: 11/28/2016 14:58
Instrument ID: HP6890-6 Calib Start Date: 11/23/2016 17:00
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 11/23/2016 18:36
Lab File ID: 6_15-194.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	1.032	1.001		0.0291	0.0300	-2.9	20.0
DCB Decachlorobiphenyl	Lin1		0.6414		0.0279	0.0300	-7.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCVIS 480-333712/4 Calibration Date: 11/28/2016 14:58
Instrument ID: HP6890-6 Calib Start Date: 11/23/2016 17:00
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 11/23/2016 18:36
Lab File ID: 6_15-194.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	2.03	2.00	2.06
DCB Decachlorobiphenyl	6.73	6.70	6.76

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 28-Nov-2016 14:58:23 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 28-Nov-2016 22:00:48 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 28-Nov-2016 15:50:25

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.080	1.080	0.000	8133323	0.5000	0.5000
2	1.096	1.096	0.000	39789706	0.5000	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.033	2.033	0.000	488615	0.0300	0.0291
2	1.755	1.755	0.000	2168729	0.0300	0.0323

RPD = 10.48

6 PCB-1016

1	2.637	2.637	0.000	278276	0.5000	0.4544
1	2.791	2.791	0.000	191567	0.5000	0.5325
1	3.003	3.003	0.000	674003	0.5000	0.4780
1	3.088	3.088	0.000	245167	0.5000	0.5399
1	3.150	3.150	0.000	164774	0.5000	0.5216

Average of Peak Amounts = 0.5053

2	2.525	2.525	0.000	1357138	0.5000	0.4505
2	2.851	2.851	0.000	2922594	0.5000	0.4685
2	2.971	2.971	0.000	1085846	0.5000	0.4565
2	3.068	3.068	0.000	632558	0.5000	0.4009
2	3.356	3.356	0.000	1310372	0.5000	0.4753

Average of Peak Amounts = 0.4503

RPD = 11.50

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.889	4.889	0.000	538798	0.5000	0.6000	
1	5.021	5.021	0.000	302311	0.5000	0.6085	a
1	5.209	5.209	0.000	279109	0.5000	0.6119	
1	5.417	5.417	0.000	693353	0.5000	0.6672	
1	5.656	5.656	0.000	326376	0.5000	0.6631	
Average of Peak Amounts =						0.6301	
2	4.746	4.746	0.000	1649954	0.5000	0.5029	
2	4.794	4.794	0.000	1339676	0.5000	0.4692	
2	5.058	5.058	0.000	1498794	0.5000	0.5210	
2	5.196	5.196	0.000	3383617	0.5000	0.4643	
2	5.531	5.531	0.000	2136553	0.5000	0.5208	
Average of Peak Amounts =						0.4956	
						RPD = 23.89	

9 1260 Res 1

1	5.656	5.656	0.000	326376	NR	NR	
2	5.058	5.058	0.000	1498794	NR	NR	
						RPD = NaN	

14 1260 Res 2

1	5.716	5.716	0.000	146121	NR	NR	
2	5.126	5.126	0.000	1087658	NR	NR	
						RPD = NaN	

12 1260 Res 3

1	5.759	5.759	0.000	177739	NR	NR	
2	5.196	5.196	0.000	3383617	NR	NR	
						RPD = NaN	

\$ 15 DCB Decachlorobiphenyl

1	6.730	6.730	0.000	312998	0.0300	0.0279	
2	6.459	6.459	0.000	1631178	0.0300	0.0307	
						RPD = 9.66	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

s - Failed ISTD Recovery Test

Reagents:

AR1660_0.5+IS_00007

Amount Added: 1.00

Units: mL

Report Date: 28-Nov-2016 22:00:49

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D

Injection Date: 28-Nov-2016 14:58:23

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCVIS

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

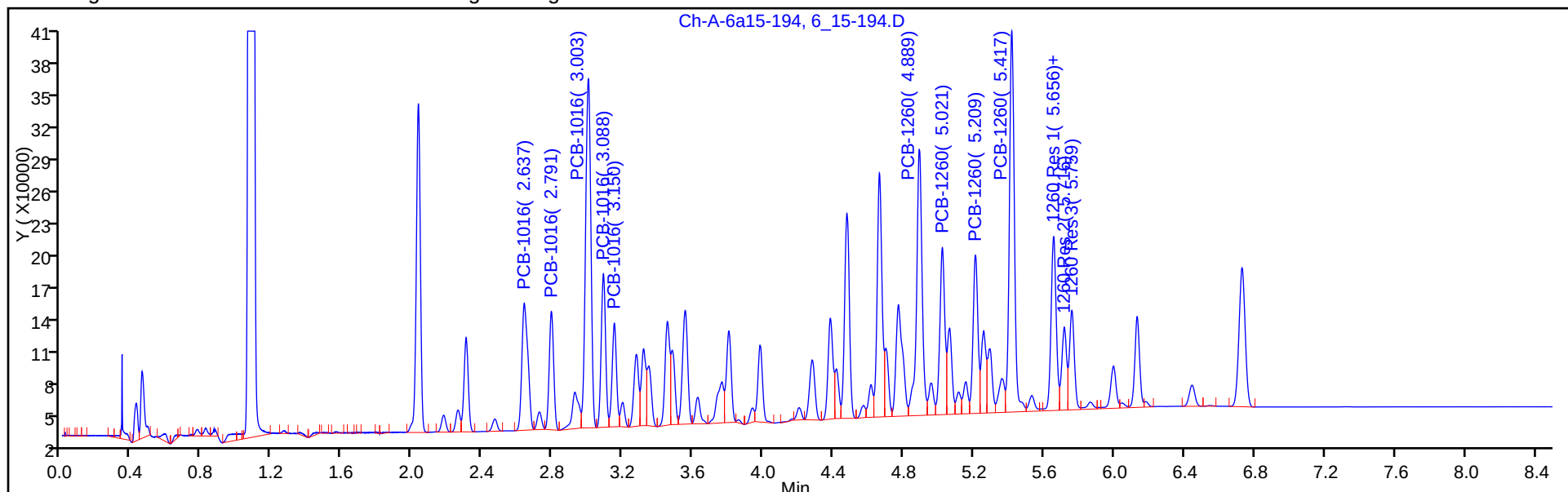
Dil. Factor: 1.0000

ALS Bottle#: 0

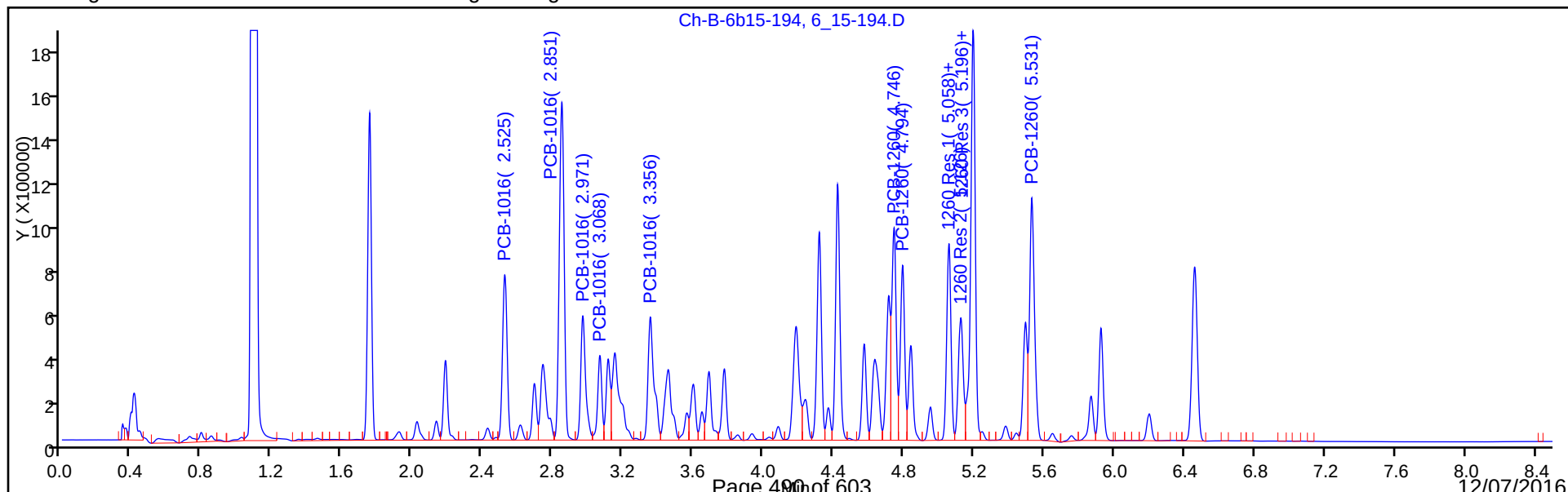
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-333712/4 Calibration Date: 11/28/2016 14:58
 Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 20:00
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 09/15/2016 21:36
 Lab File ID: 6_15-194.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	0.0379	0.0341		0.451	0.500	-9.9	20.0
PCB-1016 Peak 2	Ave	0.0784	0.0735		0.468	0.500	-6.3	20.0
PCB-1016 Peak 3	Ave	0.0299	0.0273		0.456	0.500	-8.7	20.0
PCB-1016 Peak 4	Ave	0.0198	0.0159		0.401	0.500	-19.8	20.0
PCB-1016 Peak 5	Ave	0.0346	0.0329		0.475	0.500	-4.9	20.0
PCB-1260 Peak 1	Ave	0.0412	0.0415		0.503	0.500	0.6	20.0
PCB-1260 Peak 2	Ave	0.0359	0.0337		0.469	0.500	-6.2	20.0
PCB-1260 Peak 3	Ave	0.0361	0.0377		0.521	0.500	4.2	20.0
PCB-1260 Peak 4	Ave	0.0916	0.0850		0.464	0.500	-7.1	20.0
PCB-1260 Peak 5	Ave	0.0515	0.0537		0.521	0.500	4.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCVIS 480-333712/4 Calibration Date: 11/28/2016 14:58
Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 20:00
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 09/15/2016 21:36
Lab File ID: 6_15-194.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.53	2.50	2.56
PCB-1016 Peak 2	2.85	2.82	2.88
PCB-1016 Peak 3	2.97	2.94	3.00
PCB-1016 Peak 4	3.07	3.04	3.10
PCB-1016 Peak 5	3.36	3.33	3.39
PCB-1260 Peak 1	4.75	4.72	4.78
PCB-1260 Peak 2	4.79	4.76	4.82
PCB-1260 Peak 3	5.06	5.03	5.09
PCB-1260 Peak 4	5.20	5.17	5.23
PCB-1260 Peak 5	5.53	5.50	5.56

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 28-Nov-2016 14:58:23 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 28-Nov-2016 22:00:48 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 28-Nov-2016 15:50:25

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.080	1.080	0.000	8133323	0.5000	0.5000
2	1.096	1.096	0.000	39789706	0.5000	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.033	2.033	0.000	488615	0.0300	0.0291
2	1.755	1.755	0.000	2168729	0.0300	0.0323

RPD = 10.48

6 PCB-1016

1	2.637	2.637	0.000	278276	0.5000	0.4544
1	2.791	2.791	0.000	191567	0.5000	0.5325
1	3.003	3.003	0.000	674003	0.5000	0.4780
1	3.088	3.088	0.000	245167	0.5000	0.5399
1	3.150	3.150	0.000	164774	0.5000	0.5216

Average of Peak Amounts = 0.5053

2	2.525	2.525	0.000	1357138	0.5000	0.4505
2	2.851	2.851	0.000	2922594	0.5000	0.4685
2	2.971	2.971	0.000	1085846	0.5000	0.4565
2	3.068	3.068	0.000	632558	0.5000	0.4009
2	3.356	3.356	0.000	1310372	0.5000	0.4753

Average of Peak Amounts = 0.4503

RPD = 11.50

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.889	4.889	0.000	538798	0.5000	0.6000	
1	5.021	5.021	0.000	302311	0.5000	0.6085	a
1	5.209	5.209	0.000	279109	0.5000	0.6119	
1	5.417	5.417	0.000	693353	0.5000	0.6672	
1	5.656	5.656	0.000	326376	0.5000	0.6631	

Average of Peak Amounts =

0.6301

2	4.746	4.746	0.000	1649954	0.5000	0.5029	
2	4.794	4.794	0.000	1339676	0.5000	0.4692	
2	5.058	5.058	0.000	1498794	0.5000	0.5210	
2	5.196	5.196	0.000	3383617	0.5000	0.4643	
2	5.531	5.531	0.000	2136553	0.5000	0.5208	

Average of Peak Amounts =

0.4956

RPD = 23.89

9 1260 Res 1

1	5.656	5.656	0.000	326376	NR	NR	
2	5.058	5.058	0.000	1498794	NR	NR	

RPD = NaN

14 1260 Res 2

1	5.716	5.716	0.000	146121	NR	NR	
2	5.126	5.126	0.000	1087658	NR	NR	

RPD = NaN

12 1260 Res 3

1	5.759	5.759	0.000	177739	NR	NR	
2	5.196	5.196	0.000	3383617	NR	NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.730	6.730	0.000	312998	0.0300	0.0279	
2	6.459	6.459	0.000	1631178	0.0300	0.0307	

RPD = 9.66

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

s - Failed ISTD Recovery Test

Reagents:

AR1660_0.5+IS_00007

Amount Added: 1.00

Units: mL

Report Date: 28-Nov-2016 22:00:55

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D

Injection Date: 28-Nov-2016 14:58:23

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCVIS

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

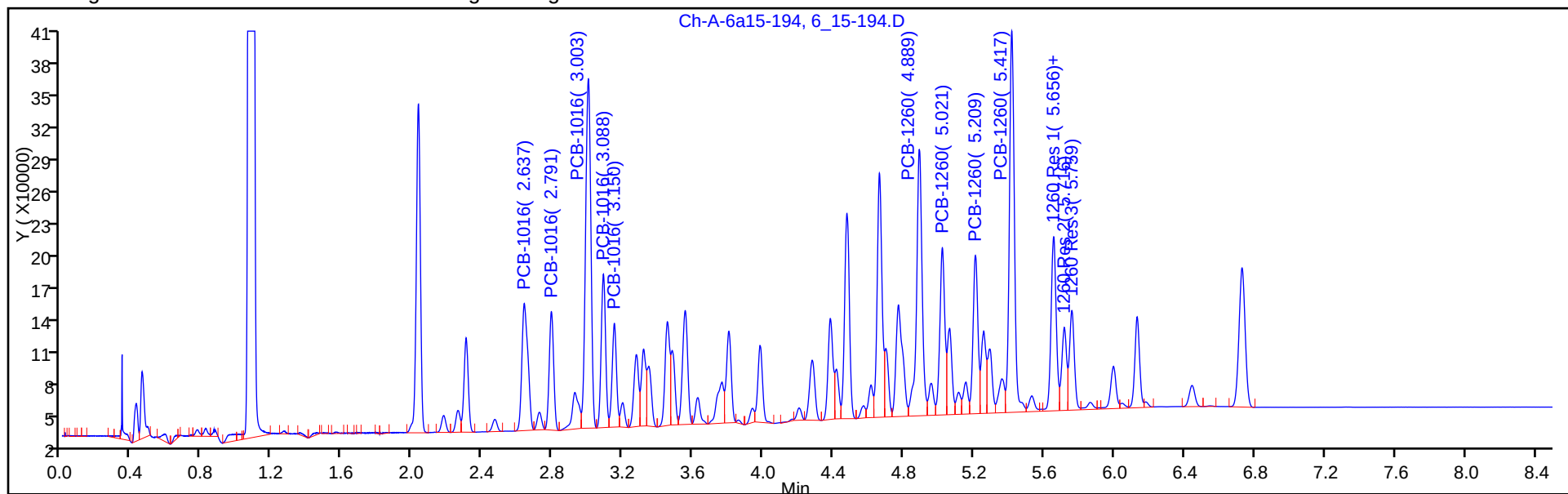
Dil. Factor: 1.0000

ALS Bottle#: 0

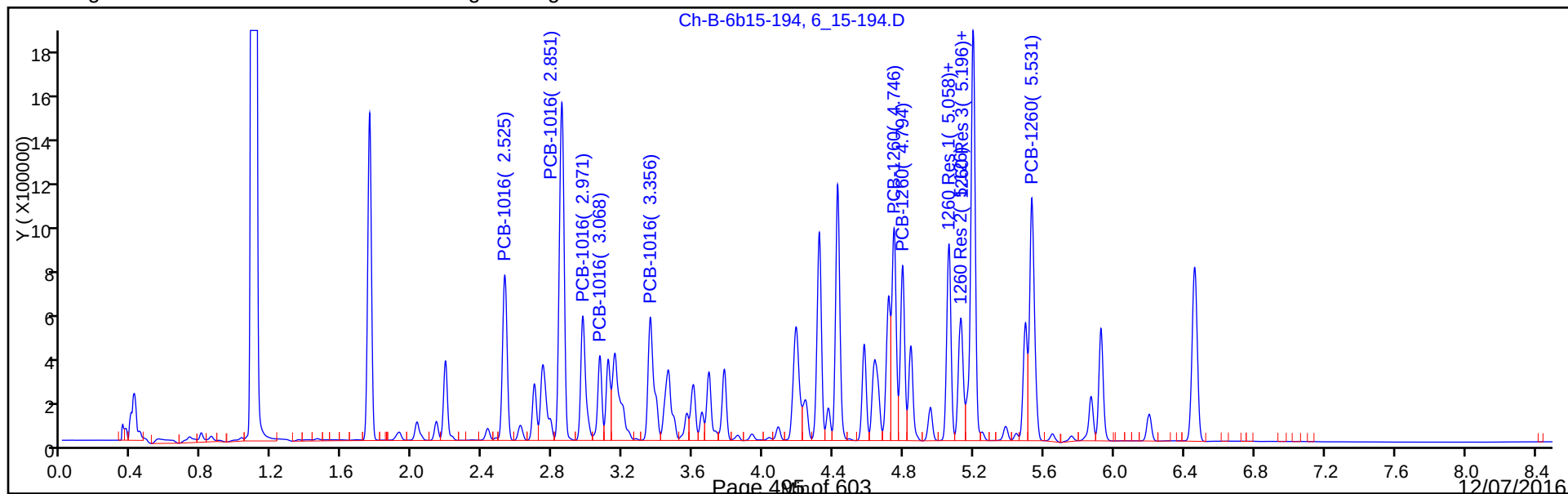
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCVIS 480-333712/4 Calibration Date: 11/28/2016 14:58
Instrument ID: HP6890-6 Calib Start Date: 11/23/2016 17:00
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 11/23/2016 18:36
Lab File ID: 6_15-194.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	0.8428	0.9084		0.0323	0.0300	7.8	20.0
DCB Decachlorobiphenyl	Lin1		0.6833		0.0307	0.0300	2.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCVIS 480-333712/4 Calibration Date: 11/28/2016 14:58
Instrument ID: HP6890-6 Calib Start Date: 11/23/2016 17:00
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 11/23/2016 18:36
Lab File ID: 6_15-194.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.76	1.73	1.79
DCB Decachlorobiphenyl	6.46	6.43	6.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 28-Nov-2016 14:58:23 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 28-Nov-2016 22:00:48 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: owenj Date: 28-Nov-2016 15:50:25

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.080	1.080	0.000	8133323	0.5000	0.5000
2	1.096	1.096	0.000	39789706	0.5000	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.033	2.033	0.000	488615	0.0300	0.0291
2	1.755	1.755	0.000	2168729	0.0300	0.0323

RPD = 10.48

6 PCB-1016

1	2.637	2.637	0.000	278276	0.5000	0.4544
1	2.791	2.791	0.000	191567	0.5000	0.5325
1	3.003	3.003	0.000	674003	0.5000	0.4780
1	3.088	3.088	0.000	245167	0.5000	0.5399
1	3.150	3.150	0.000	164774	0.5000	0.5216

Average of Peak Amounts = 0.5053

2	2.525	2.525	0.000	1357138	0.5000	0.4505
2	2.851	2.851	0.000	2922594	0.5000	0.4685
2	2.971	2.971	0.000	1085846	0.5000	0.4565
2	3.068	3.068	0.000	632558	0.5000	0.4009
2	3.356	3.356	0.000	1310372	0.5000	0.4753

Average of Peak Amounts = 0.4503

RPD = 11.50

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.889	4.889	0.000	538798	0.5000	0.6000	
1	5.021	5.021	0.000	302311	0.5000	0.6085	a
1	5.209	5.209	0.000	279109	0.5000	0.6119	
1	5.417	5.417	0.000	693353	0.5000	0.6672	
1	5.656	5.656	0.000	326376	0.5000	0.6631	

Average of Peak Amounts =

0.6301

2	4.746	4.746	0.000	1649954	0.5000	0.5029	
2	4.794	4.794	0.000	1339676	0.5000	0.4692	
2	5.058	5.058	0.000	1498794	0.5000	0.5210	
2	5.196	5.196	0.000	3383617	0.5000	0.4643	
2	5.531	5.531	0.000	2136553	0.5000	0.5208	

Average of Peak Amounts =

0.4956

RPD = 23.89

9 1260 Res 1

1	5.656	5.656	0.000	326376	NR	NR	
2	5.058	5.058	0.000	1498794	NR	NR	

RPD = NaN

14 1260 Res 2

1	5.716	5.716	0.000	146121	NR	NR	
2	5.126	5.126	0.000	1087658	NR	NR	

RPD = NaN

12 1260 Res 3

1	5.759	5.759	0.000	177739	NR	NR	
2	5.196	5.196	0.000	3383617	NR	NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.730	6.730	0.000	312998	0.0300	0.0279	
2	6.459	6.459	0.000	1631178	0.0300	0.0307	

RPD = 9.66

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

s - Failed ISTD Recovery Test

Reagents:

AR1660_0.5+IS_00007

Amount Added: 1.00

Units: mL

Report Date: 28-Nov-2016 22:00:55

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-194.D

Injection Date: 28-Nov-2016 14:58:23

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCVIS

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

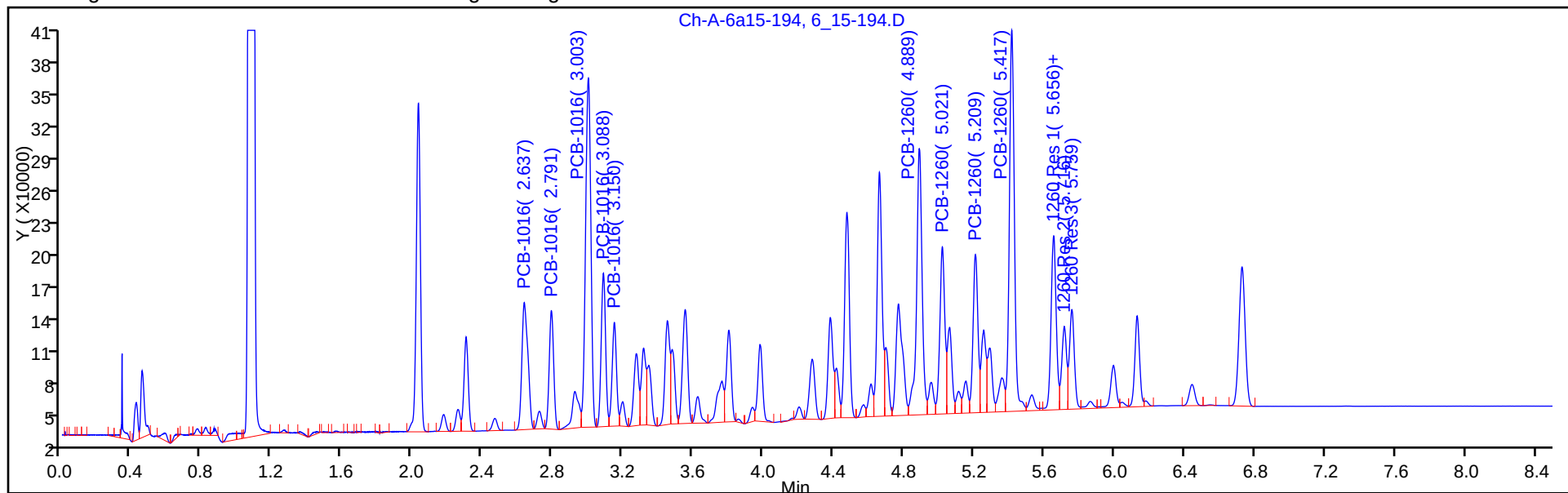
Dil. Factor: 1.0000

ALS Bottle#: 0

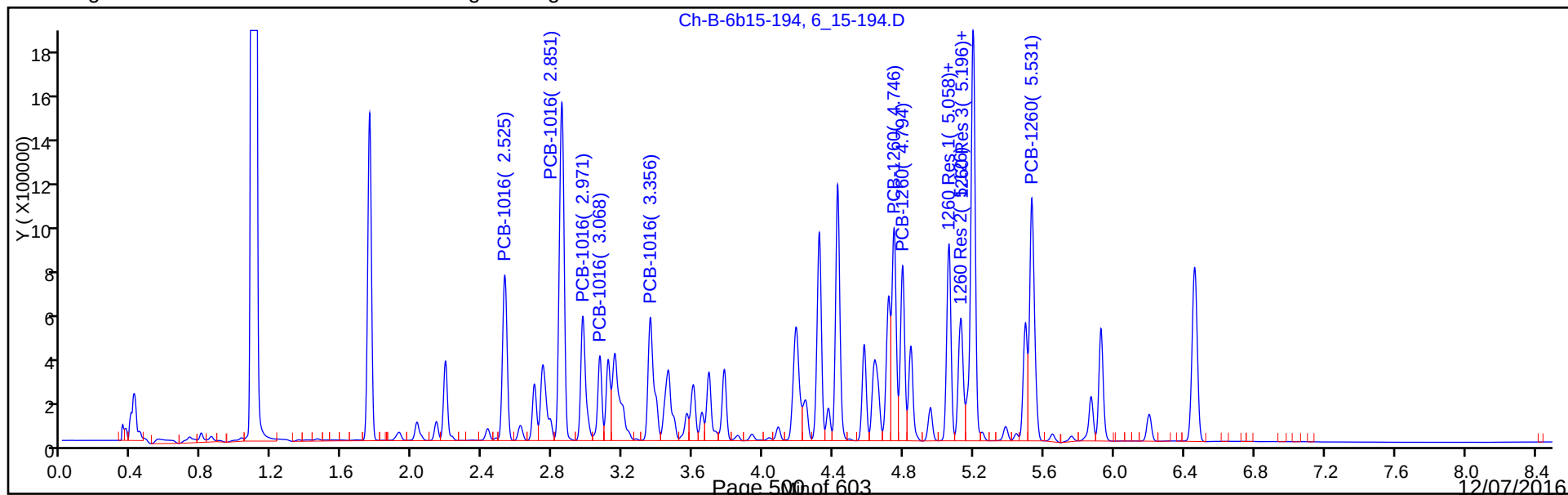
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCV 480-333712/33 Calibration Date: 11/28/2016 23:02
 Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 20:00
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 09/15/2016 21:36
 Lab File ID: 6_15-223.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	0.0376	0.0348		0.463	0.500	-7.5	20.0
PCB-1016 Peak 2	Lin1		0.0231		0.523	0.500	4.5	20.0
PCB-1016 Peak 3	Ave	0.0867	0.0825		0.476	0.500	-4.9	20.0
PCB-1016 Peak 4	Lin1		0.0298		0.533	0.500	6.7	20.0
PCB-1016 Peak 5	Lin1		0.0197		0.507	0.500	1.4	20.0
PCB-1260 Peak 1	Ave	0.0552	0.0642		0.582	0.500	16.3	20.0
PCB-1260 Peak 2	Ave	0.0305	0.0358		0.586	0.500	17.3	20.0
PCB-1260 Peak 3	Ave	0.0280	0.0330		0.589	0.500	17.8	20.0
PCB-1260 Peak 4	Ave	0.0639	0.0810		0.634	0.500	26.9*	20.0
PCB-1260 Peak 5	Ave	0.0303	0.0374		0.618	0.500	23.5*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/33 Calibration Date: 11/28/2016 23:02
Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 20:00
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 09/15/2016 21:36
Lab File ID: 6_15-223.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.64	2.61	2.67
PCB-1016 Peak 2	2.80	2.77	2.83
PCB-1016 Peak 3	3.01	2.98	3.04
PCB-1016 Peak 4	3.09	3.06	3.12
PCB-1016 Peak 5	3.15	3.12	3.18
PCB-1260 Peak 1	4.89	4.86	4.92
PCB-1260 Peak 2	5.02	4.99	5.05
PCB-1260 Peak 3	5.21	5.18	5.24
PCB-1260 Peak 4	5.42	5.39	5.45
PCB-1260 Peak 5	5.66	5.63	5.69

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Nov-2016 23:02:25 ALS Bottle#: 0 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:34 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 28-Nov-2016 23:17:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s
 1 1.083 1.083 0.000 8351509 0.5000 0.5000
 2 1.097 1.097 0.000 40704267 0.5000 0.5000
 RPD = 0.00

\$ 2 Tetrachloro-m-xylene
 1 2.035 2.035 0.000 522860 0.0300 0.0303
 2 1.756 1.756 0.000 2270174 0.0300 0.0331
 RPD = 8.66

6 PCB-1016
 1 2.640 2.640 0.000 290946 0.5000 0.4627
 1 2.795 2.795 0.000 193262 0.5000 0.5227
 1 3.005 3.005 0.000 688669 0.5000 0.4756
 1 3.091 3.091 0.000 248839 0.5000 0.5334
 1 3.154 3.154 0.000 164597 0.5000 0.5069
 Average of Peak Amounts = 0.5003
 2 2.527 2.527 0.000 1380741 0.5000 0.4481
 2 2.853 2.853 0.000 2965555 0.5000 0.4647
 2 2.972 2.972 0.000 1112704 0.5000 0.4573
 2 3.069 3.069 0.000 660173 0.5000 0.4090
 2 3.357 3.357 0.000 1336563 0.5000 0.4739
 Average of Peak Amounts = 0.4506
 RPD = 10.45

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.894	4.894	0.000	536316	0.5000	0.5816	
1	5.024	5.024	0.000	299074	0.5000	0.5863	
1	5.213	5.213	0.000	275975	0.5000	0.5892	
1	5.421	5.421	0.000	676844	0.5000	0.6343	
1	5.658	5.658	0.000	312183	0.5000	0.6177	

Average of Peak Amounts =

0.6018

2	4.748	4.748	0.000	1604107	0.5000	0.4780	
2	4.796	4.796	0.000	1280444	0.5000	0.4383	
2	5.062	5.062	0.000	1419700	0.5000	0.4824	
2	5.198	5.198	0.000	3245932	0.5000	0.4354	
2	5.533	5.533	0.000	1915900	0.5000	0.4566	

Average of Peak Amounts =

0.4581

RPD = 27.11

9 1260 Res 1

1	5.658	5.658	0.000	312183	NR	NR	
2	5.062	5.062	0.000	1419700	NR	NR	

RPD = NaN

14 1260 Res 2

1	5.720	5.720	0.000	139227	NR	NR	
2	5.128	5.128	0.000	1025687	NR	NR	

RPD = NaN

12 1260 Res 3

1	5.763	5.763	0.000	168297	NR	NR	
2	5.198	5.198	0.000	3245932	NR	NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.732	6.732	0.000	302009	0.0300	0.0261	
2	6.462	6.462	0.000	1407483	0.0300	0.0258	

RPD = 1.45

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

s - Failed ISTD Recovery Test

Reagents:

AR1660_0.5+IS_00007

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:35

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D

Injection Date: 28-Nov-2016 23:02:25

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 33

Client ID:

Injection Vol: 1.0 ul

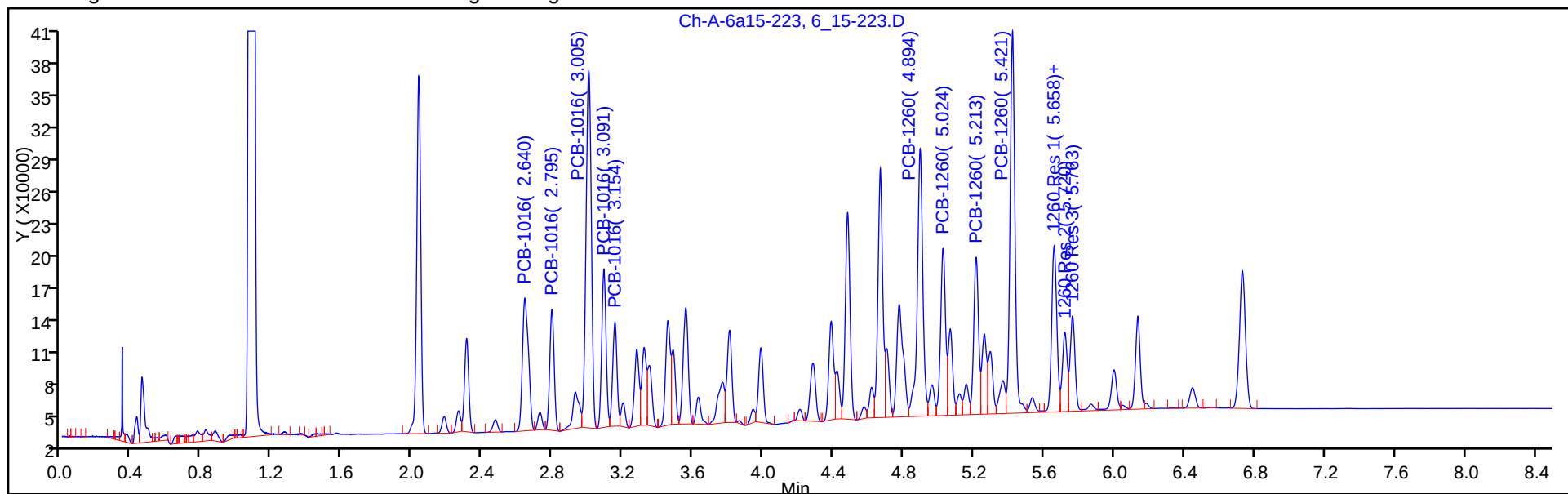
Dil. Factor: 1.0000

ALS Bottle#: 0

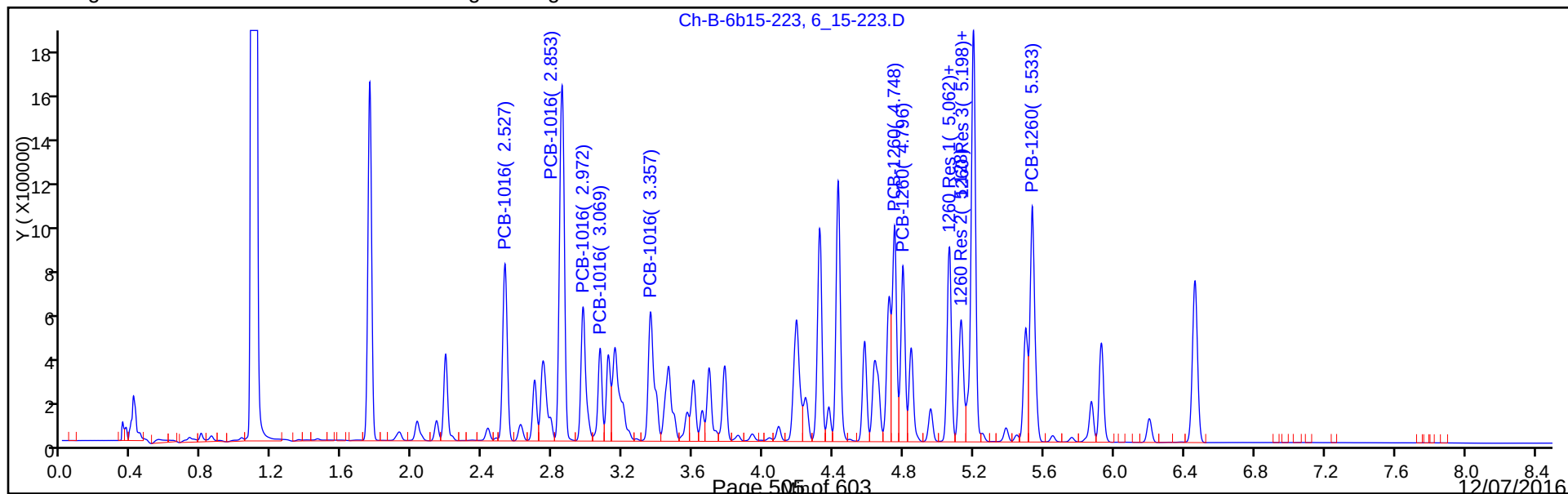
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/33 Calibration Date: 11/28/2016 23:02
Instrument ID: HP6890-6 Calib Start Date: 11/23/2016 17:00
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 11/23/2016 18:36
Lab File ID: 6_15-223.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	1.032	1.043		0.0303	0.0300	1.1	20.0
DCB Decachlorobiphenyl	Lin1		0.6027		0.0261	0.0300	-12.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/33 Calibration Date: 11/28/2016 23:02
Instrument ID: HP6890-6 Calib Start Date: 11/23/2016 17:00
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 11/23/2016 18:36
Lab File ID: 6_15-223.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	2.04	2.01	2.07
DCB Decachlorobiphenyl	6.73	6.70	6.76

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Nov-2016 23:02:25 ALS Bottle#: 0 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:34 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 28-Nov-2016 23:17:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s
 1 1.083 1.083 0.000 8351509 0.5000 0.5000
 2 1.097 1.097 0.000 40704267 0.5000 0.5000
 RPD = 0.00

\$ 2 Tetrachloro-m-xylene
 1 2.035 2.035 0.000 522860 0.0300 0.0303
 2 1.756 1.756 0.000 2270174 0.0300 0.0331
 RPD = 8.66

6 PCB-1016
 1 2.640 2.640 0.000 290946 0.5000 0.4627
 1 2.795 2.795 0.000 193262 0.5000 0.5227
 1 3.005 3.005 0.000 688669 0.5000 0.4756
 1 3.091 3.091 0.000 248839 0.5000 0.5334
 1 3.154 3.154 0.000 164597 0.5000 0.5069
 Average of Peak Amounts = 0.5003
 2 2.527 2.527 0.000 1380741 0.5000 0.4481
 2 2.853 2.853 0.000 2965555 0.5000 0.4647
 2 2.972 2.972 0.000 1112704 0.5000 0.4573
 2 3.069 3.069 0.000 660173 0.5000 0.4090
 2 3.357 3.357 0.000 1336563 0.5000 0.4739
 Average of Peak Amounts = 0.4506
 RPD = 10.45

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.894	4.894	0.000	536316	0.5000	0.5816	
1	5.024	5.024	0.000	299074	0.5000	0.5863	
1	5.213	5.213	0.000	275975	0.5000	0.5892	
1	5.421	5.421	0.000	676844	0.5000	0.6343	
1	5.658	5.658	0.000	312183	0.5000	0.6177	

Average of Peak Amounts =

0.6018

2	4.748	4.748	0.000	1604107	0.5000	0.4780	
2	4.796	4.796	0.000	1280444	0.5000	0.4383	
2	5.062	5.062	0.000	1419700	0.5000	0.4824	
2	5.198	5.198	0.000	3245932	0.5000	0.4354	
2	5.533	5.533	0.000	1915900	0.5000	0.4566	

Average of Peak Amounts =

0.4581

RPD = 27.11

9 1260 Res 1

1	5.658	5.658	0.000	312183	NR	NR	
2	5.062	5.062	0.000	1419700	NR	NR	

RPD = NaN

14 1260 Res 2

1	5.720	5.720	0.000	139227	NR	NR	
2	5.128	5.128	0.000	1025687	NR	NR	

RPD = NaN

12 1260 Res 3

1	5.763	5.763	0.000	168297	NR	NR	
2	5.198	5.198	0.000	3245932	NR	NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.732	6.732	0.000	302009	0.0300	0.0261	
2	6.462	6.462	0.000	1407483	0.0300	0.0258	

RPD = 1.45

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

s - Failed ISTD Recovery Test

Reagents:

AR1660_0.5+IS_00007

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:35

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D

Injection Date: 28-Nov-2016 23:02:25

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 33

Client ID:

Injection Vol: 1.0 ul

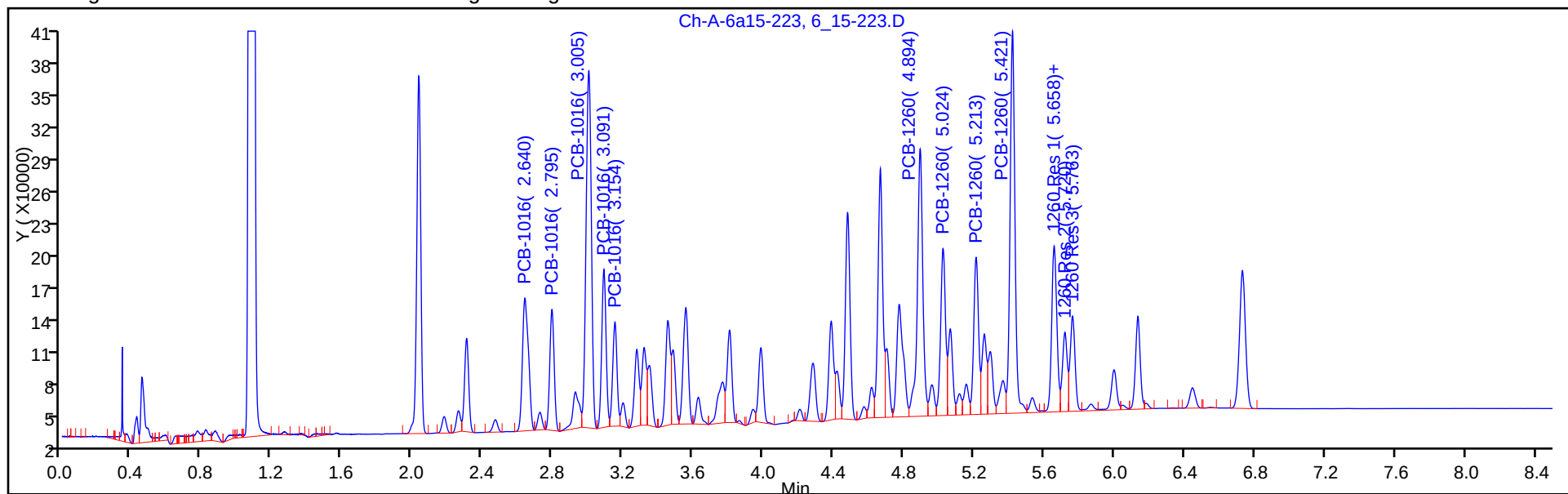
Dil. Factor: 1.0000

ALS Bottle#: 0

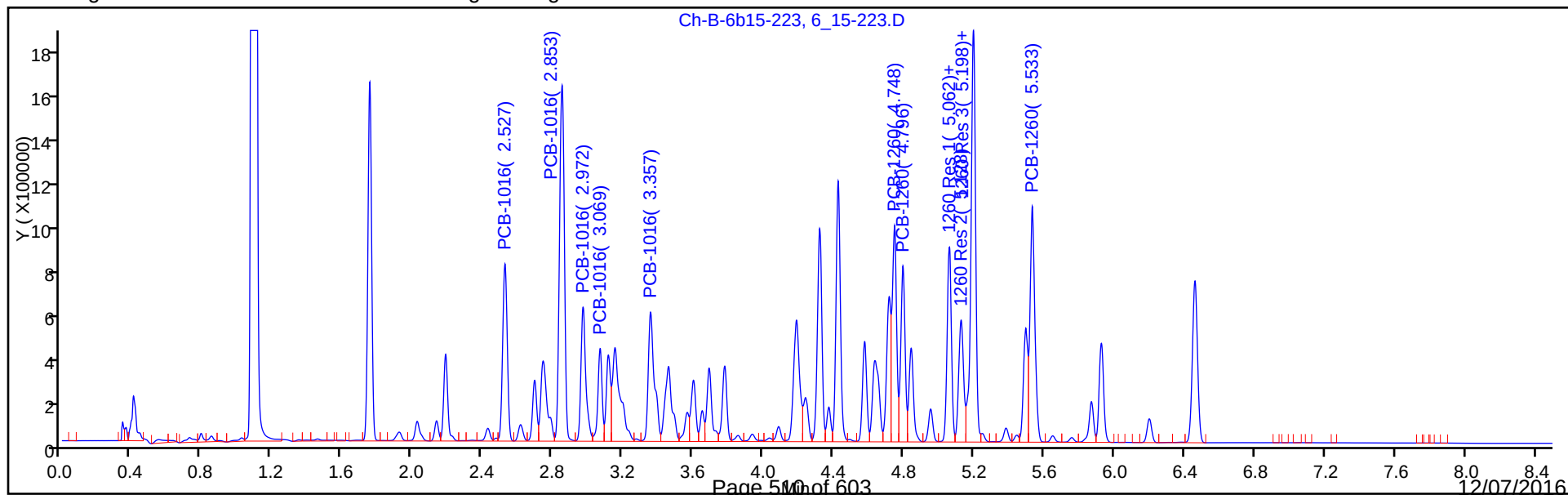
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCV 480-333712/33 Calibration Date: 11/28/2016 23:02
 Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 20:00
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 09/15/2016 21:36
 Lab File ID: 6_15-223.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	0.0379	0.0339		0.448	0.500	-10.4	20.0
PCB-1016 Peak 2	Ave	0.0784	0.0729		0.465	0.500	-7.1	20.0
PCB-1016 Peak 3	Ave	0.0299	0.0273		0.457	0.500	-8.5	20.0
PCB-1016 Peak 4	Ave	0.0198	0.0162		0.409	0.500	-18.2	20.0
PCB-1016 Peak 5	Ave	0.0346	0.0328		0.474	0.500	-5.2	20.0
PCB-1260 Peak 1	Ave	0.0412	0.0394		0.478	0.500	-4.4	20.0
PCB-1260 Peak 2	Ave	0.0359	0.0315		0.438	0.500	-12.3	20.0
PCB-1260 Peak 3	Ave	0.0361	0.0349		0.482	0.500	-3.5	20.0
PCB-1260 Peak 4	Ave	0.0916	0.0797		0.435	0.500	-12.9	20.0
PCB-1260 Peak 5	Ave	0.0515	0.0471		0.457	0.500	-8.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/33 Calibration Date: 11/28/2016 23:02
Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 20:00
GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 09/15/2016 21:36
Lab File ID: 6_15-223.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.53	2.50	2.56
PCB-1016 Peak 2	2.85	2.82	2.88
PCB-1016 Peak 3	2.97	2.94	3.00
PCB-1016 Peak 4	3.07	3.04	3.10
PCB-1016 Peak 5	3.36	3.33	3.39
PCB-1260 Peak 1	4.75	4.72	4.78
PCB-1260 Peak 2	4.80	4.77	4.83
PCB-1260 Peak 3	5.06	5.03	5.09
PCB-1260 Peak 4	5.20	5.17	5.23
PCB-1260 Peak 5	5.53	5.50	5.56

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Nov-2016 23:02:25 ALS Bottle#: 0 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:34 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 28-Nov-2016 23:17:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.083	1.083	0.000	8351509	0.5000	0.5000
2	1.097	1.097	0.000	40704267	0.5000	0.5000

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.035	2.035	0.000	522860	0.0300	0.0303
2	1.756	1.756	0.000	2270174	0.0300	0.0331

RPD = 8.66

6 PCB-1016

1	2.640	2.640	0.000	290946	0.5000	0.4627
1	2.795	2.795	0.000	193262	0.5000	0.5227
1	3.005	3.005	0.000	688669	0.5000	0.4756
1	3.091	3.091	0.000	248839	0.5000	0.5334
1	3.154	3.154	0.000	164597	0.5000	0.5069

Average of Peak Amounts = 0.5003

2	2.527	2.527	0.000	1380741	0.5000	0.4481
2	2.853	2.853	0.000	2965555	0.5000	0.4647
2	2.972	2.972	0.000	1112704	0.5000	0.4573
2	3.069	3.069	0.000	660173	0.5000	0.4090
2	3.357	3.357	0.000	1336563	0.5000	0.4739

Average of Peak Amounts = 0.4506

RPD = 10.45

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.894	4.894	0.000	536316	0.5000	0.5816	
1	5.024	5.024	0.000	299074	0.5000	0.5863	
1	5.213	5.213	0.000	275975	0.5000	0.5892	
1	5.421	5.421	0.000	676844	0.5000	0.6343	
1	5.658	5.658	0.000	312183	0.5000	0.6177	

Average of Peak Amounts =

0.6018

2	4.748	4.748	0.000	1604107	0.5000	0.4780	
2	4.796	4.796	0.000	1280444	0.5000	0.4383	
2	5.062	5.062	0.000	1419700	0.5000	0.4824	
2	5.198	5.198	0.000	3245932	0.5000	0.4354	
2	5.533	5.533	0.000	1915900	0.5000	0.4566	

Average of Peak Amounts =

0.4581

RPD = 27.11

9 1260 Res 1

1	5.658	5.658	0.000	312183	NR	NR	
2	5.062	5.062	0.000	1419700	NR	NR	

RPD = NaN

14 1260 Res 2

1	5.720	5.720	0.000	139227	NR	NR	
2	5.128	5.128	0.000	1025687	NR	NR	

RPD = NaN

12 1260 Res 3

1	5.763	5.763	0.000	168297	NR	NR	
2	5.198	5.198	0.000	3245932	NR	NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.732	6.732	0.000	302009	0.0300	0.0261	
2	6.462	6.462	0.000	1407483	0.0300	0.0258	

RPD = 1.45

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

s - Failed ISTD Recovery Test

Reagents:

AR1660_0.5+IS_00007

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:36

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D

Injection Date: 28-Nov-2016 23:02:25

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 33

Client ID:

Injection Vol: 1.0 ul

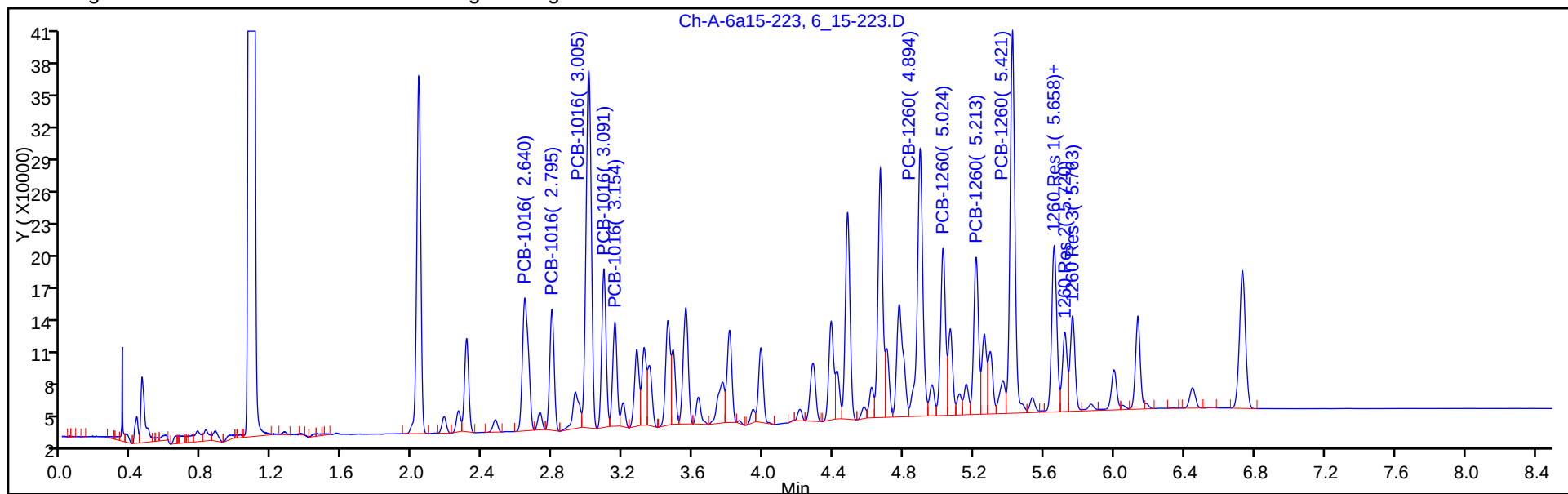
Dil. Factor: 1.0000

ALS Bottle#: 0

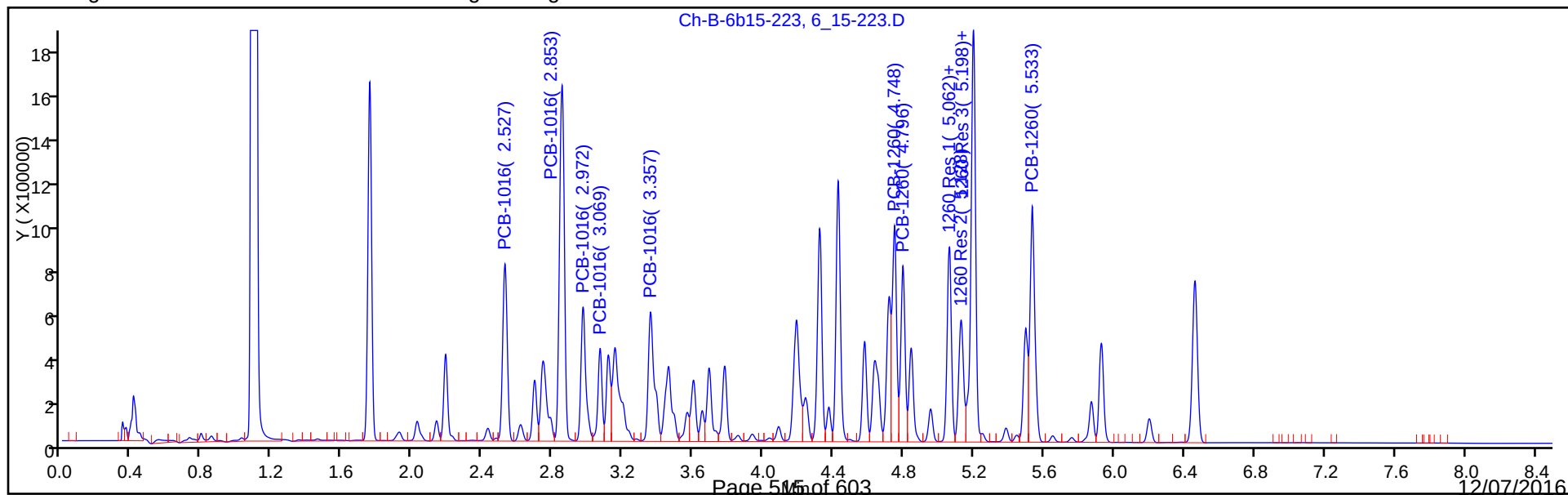
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/33 Calibration Date: 11/28/2016 23:02
Instrument ID: HP6890-6 Calib Start Date: 11/23/2016 17:00
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 11/23/2016 18:36
Lab File ID: 6_15-223.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	0.8428	0.9295		0.0331	0.0300	10.3	20.0
DCB Decachlorobiphenyl	Lin1		0.5763		0.0258	0.0300	-14.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/33 Calibration Date: 11/28/2016 23:02
Instrument ID: HP6890-6 Calib Start Date: 11/23/2016 17:00
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 11/23/2016 18:36
Lab File ID: 6_15-223.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.76	1.73	1.79
DCB Decachlorobiphenyl	6.46	6.43	6.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Nov-2016 23:02:25 ALS Bottle#: 0 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub3
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:34 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 28-Nov-2016 23:17:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

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1	1.083	1.083	0.000	8351509	0.5000	0.5000
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RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.035	2.035	0.000	522860	0.0300	0.0303
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RPD = 8.66

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1	2.640	2.640	0.000	290946	0.5000	0.4627
1	2.795	2.795	0.000	193262	0.5000	0.5227
1	3.005	3.005	0.000	688669	0.5000	0.4756
1	3.091	3.091	0.000	248839	0.5000	0.5334
1	3.154	3.154	0.000	164597	0.5000	0.5069

Average of Peak Amounts = 0.5003

2	2.527	2.527	0.000	1380741	0.5000	0.4481
2	2.853	2.853	0.000	2965555	0.5000	0.4647
2	2.972	2.972	0.000	1112704	0.5000	0.4573
2	3.069	3.069	0.000	660173	0.5000	0.4090
2	3.357	3.357	0.000	1336563	0.5000	0.4739

Average of Peak Amounts = 0.4506

RPD = 10.45

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.894	4.894	0.000	536316	0.5000	0.5816	
1	5.024	5.024	0.000	299074	0.5000	0.5863	
1	5.213	5.213	0.000	275975	0.5000	0.5892	
1	5.421	5.421	0.000	676844	0.5000	0.6343	
1	5.658	5.658	0.000	312183	0.5000	0.6177	

Average of Peak Amounts =

0.6018

2	4.748	4.748	0.000	1604107	0.5000	0.4780	
2	4.796	4.796	0.000	1280444	0.5000	0.4383	
2	5.062	5.062	0.000	1419700	0.5000	0.4824	
2	5.198	5.198	0.000	3245932	0.5000	0.4354	
2	5.533	5.533	0.000	1915900	0.5000	0.4566	

Average of Peak Amounts =

0.4581

RPD = 27.11

9 1260 Res 1

1	5.658	5.658	0.000	312183	NR	NR	
2	5.062	5.062	0.000	1419700	NR	NR	

RPD = NaN

14 1260 Res 2

1	5.720	5.720	0.000	139227	NR	NR	
2	5.128	5.128	0.000	1025687	NR	NR	

RPD = NaN

12 1260 Res 3

1	5.763	5.763	0.000	168297	NR	NR	
2	5.198	5.198	0.000	3245932	NR	NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.732	6.732	0.000	302009	0.0300	0.0261	
2	6.462	6.462	0.000	1407483	0.0300	0.0258	

RPD = 1.45

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

s - Failed ISTD Recovery Test

Reagents:

AR1660_0.5+IS_00007

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:36

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-223.D

Injection Date: 28-Nov-2016 23:02:25

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 33

Client ID:

Injection Vol: 1.0 ul

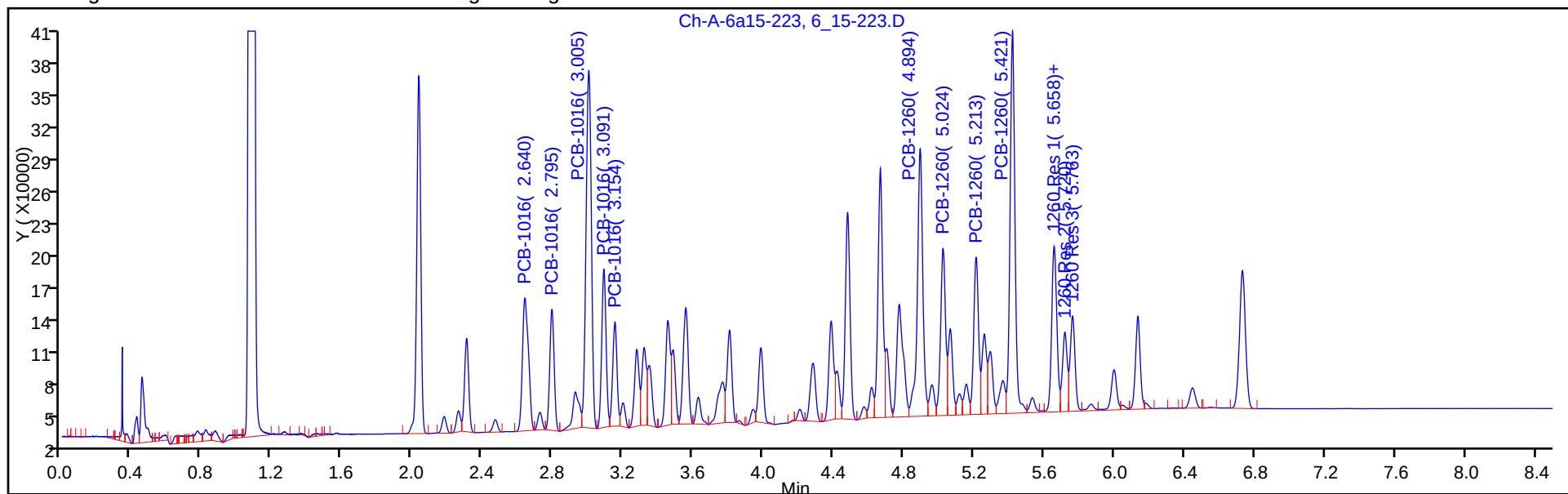
Dil. Factor: 1.0000

ALS Bottle#: 0

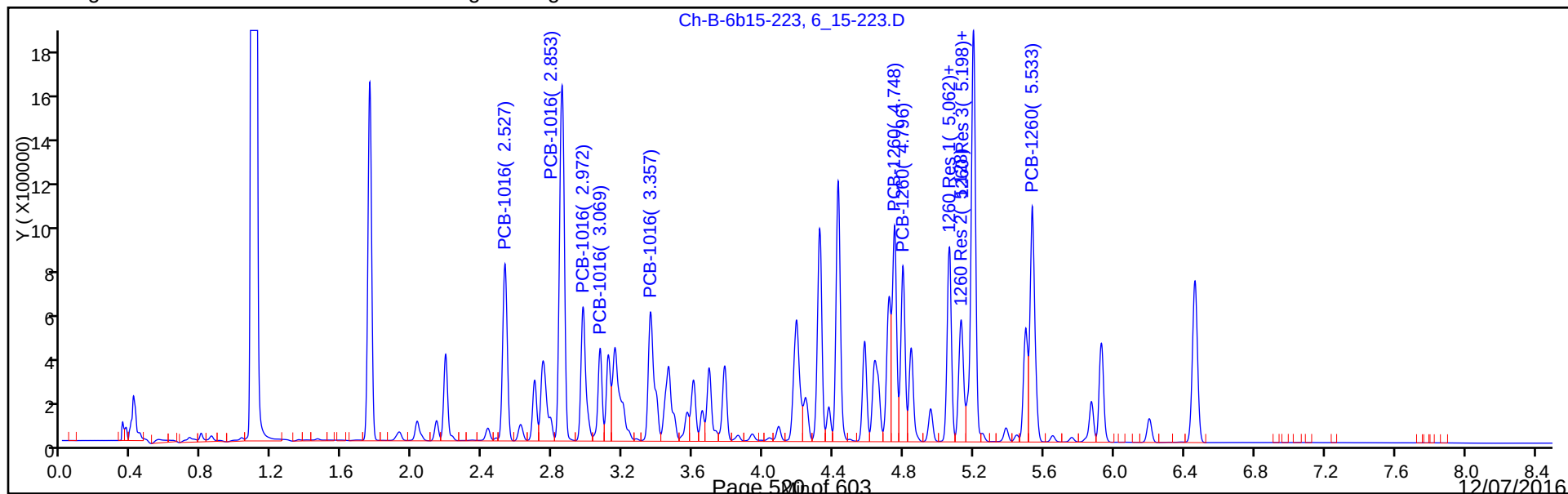
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCV 480-333712/34 Calibration Date: 11/28/2016 23:21
 Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 23:12
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 09/15/2016 23:44
 Lab File ID: 6_15-224.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		0.0061		0.507	0.500	1.4	20.0
PCB-1221 Peak 2	Lin1		0.0106		0.486	0.500	-2.7	20.0
PCB-1221 Peak 3	Lin1		0.0064		0.460	0.500	-8.0	20.0
PCB-1221 Peak 4	Lin1		0.0249		0.545	0.500	9.1	20.0
PCB-1254 Peak 1	Lin1		0.0553		0.617	0.500	23.3*	20.0
PCB-1254 Peak 2	Lin1		0.0645		0.633	0.500	26.7*	20.0
PCB-1254 Peak 3	Ave	0.0558	0.0644		0.577	0.500	15.4	20.0
PCB-1254 Peak 4	Ave	0.0330	0.0386		0.585	0.500	17.0	20.0
PCB-1254 Peak 5	Ave	0.0450	0.0553		0.613	0.500	22.7*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/34 Calibration Date: 11/28/2016 23:21
Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 23:12
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 09/15/2016 23:44
Lab File ID: 6_15-224.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.57	1.54	1.60
PCB-1221 Peak 2	2.19	2.16	2.22
PCB-1221 Peak 3	2.27	2.24	2.30
PCB-1221 Peak 4	2.32	2.29	2.35
PCB-1254 Peak 1	3.99	3.96	4.02
PCB-1254 Peak 2	4.30	4.27	4.33
PCB-1254 Peak 3	4.50	4.47	4.53
PCB-1254 Peak 4	4.72	4.69	4.75
PCB-1254 Peak 5	4.90	4.87	4.93

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-224.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Nov-2016 23:21:38 ALS Bottle#: 0 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub4
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:37 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 28-Nov-2016 23:42:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.085	1.085	0.000	7886582	0.5000	0.5000
2	1.097	1.097	0.000	38138493	0.5000	0.5000

RPD = 0.00

3 PCB-1221

1	1.571	1.571	0.000	47855	0.5000	0.5069
1	2.188	2.188	0.000	83495	0.5000	0.4864
1	2.267	2.267	0.000	50710	0.5000	0.4600
1	2.316	2.316	0.000	196679	0.5000	0.5453

Average of Peak Amounts = 0.4996

2	1.460	1.460	0.000	254271	0.5000	0.5925
2	2.028	2.028	0.000	388251	0.5000	0.4573
2	2.138	2.138	0.000	234770	0.5000	0.5142
2	2.191	2.191	0.000	708818	0.5000	0.4174

Average of Peak Amounts = 0.4954

RPD = 0.86

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-224.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

8 PCB-1254

1	3.994	3.994	0.000	436041	0.5000	0.6166	
1	4.295	4.295	0.000	508361	0.5000	0.6333	
1	4.497	4.497	0.000	507948	0.5000	0.5769	
1	4.716	4.716	0.000	304319	0.5000	0.5852	
1	4.902	4.902	0.000	435703	0.5000	0.6133	

Average of Peak Amounts = 0.6051

2	3.693	3.693	0.000	1162937	0.5000	0.4987	
2	3.782	3.782	0.000	1601148	0.5000	0.4846	
2	4.177	4.177	0.000	2445360	0.5000	0.4946	
2	4.309	4.309	0.000	2468034	0.5000	0.5334	
2	4.751	4.751	0.000	2039584	0.5000	0.4828	

Average of Peak Amounts = 0.4988

RPD = 19.25

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

21-54+IS CCV_00003

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:38

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-224.D

Injection Date: 28-Nov-2016 23:21:38

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 34

Client ID:

Injection Vol: 1.0 ul

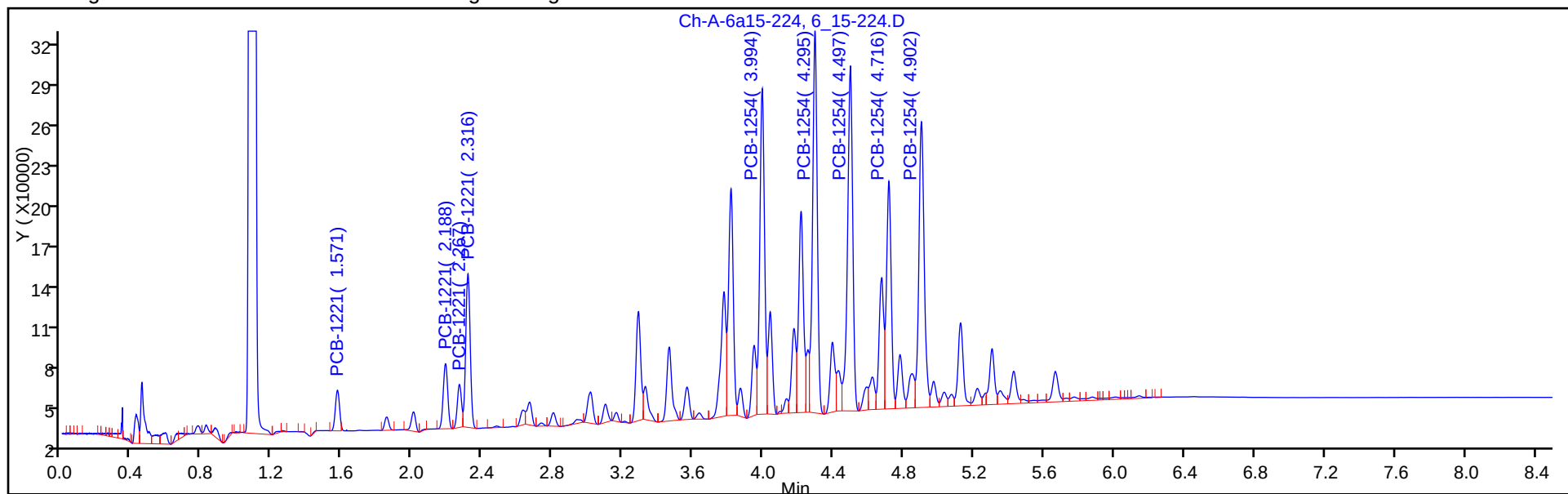
Dil. Factor: 1.0000

ALS Bottle#: 0

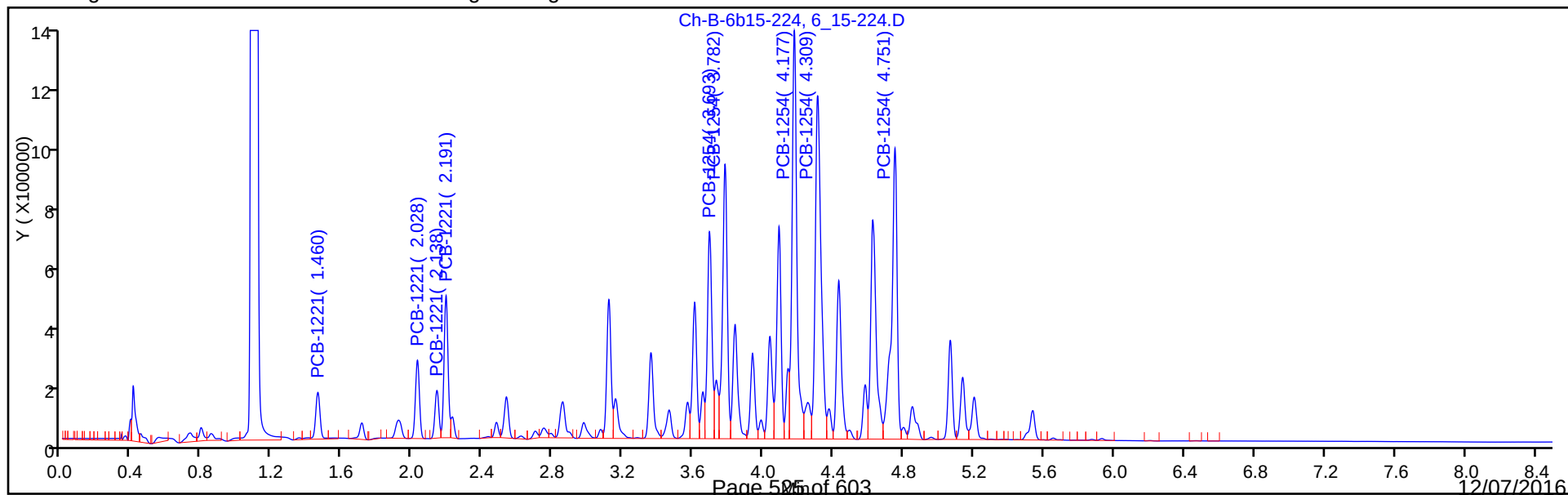
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCV 480-333712/34 Calibration Date: 11/28/2016 23:21
 Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 23:12
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 09/15/2016 23:44
 Lab File ID: 6_15-224.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		0.0067		0.593	0.500	18.5	20.0
PCB-1221 Peak 2	Ave	0.0111	0.0102		0.457	0.500	-8.5	20.0
PCB-1221 Peak 3	Lin1		0.0062		0.514	0.500	2.8	20.0
PCB-1221 Peak 4	Ave	0.0223	0.0186		0.417	0.500	-16.5	20.0
PCB-1254 Peak 1	Ave	0.0306	0.0305		0.499	0.500	-0.3	20.0
PCB-1254 Peak 2	Ave	0.0433	0.0420		0.485	0.500	-3.1	20.0
PCB-1254 Peak 3	Ave	0.0648	0.0641		0.495	0.500	-1.1	20.0
PCB-1254 Peak 4	Ave	0.0607	0.0647		0.533	0.500	6.7	20.0
PCB-1254 Peak 5	Ave	0.0554	0.0535		0.483	0.500	-3.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/34 Calibration Date: 11/28/2016 23:21
Instrument ID: HP6890-6 Calib Start Date: 09/15/2016 23:12
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 09/15/2016 23:44
Lab File ID: 6_15-224.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.46	1.43	1.49
PCB-1221 Peak 2	2.03	2.00	2.06
PCB-1221 Peak 3	2.14	2.11	2.17
PCB-1221 Peak 4	2.19	2.16	2.22
PCB-1254 Peak 1	3.69	3.66	3.72
PCB-1254 Peak 2	3.78	3.75	3.81
PCB-1254 Peak 3	4.18	4.15	4.21
PCB-1254 Peak 4	4.31	4.28	4.34
PCB-1254 Peak 5	4.75	4.72	4.78

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-224.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Nov-2016 23:21:38 ALS Bottle#: 0 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub4
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:37 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 28-Nov-2016 23:42:28

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.085	1.085	0.000	7886582	0.5000	0.5000
2	1.097	1.097	0.000	38138493	0.5000	0.5000

RPD = 0.00

3 PCB-1221

1	1.571	1.571	0.000	47855	0.5000	0.5069
1	2.188	2.188	0.000	83495	0.5000	0.4864
1	2.267	2.267	0.000	50710	0.5000	0.4600
1	2.316	2.316	0.000	196679	0.5000	0.5453

Average of Peak Amounts = 0.4996

2	1.460	1.460	0.000	254271	0.5000	0.5925
2	2.028	2.028	0.000	388251	0.5000	0.4573
2	2.138	2.138	0.000	234770	0.5000	0.5142
2	2.191	2.191	0.000	708818	0.5000	0.4174

Average of Peak Amounts = 0.4954

RPD = 0.86

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-224.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

8 PCB-1254

1	3.994	3.994	0.000	436041	0.5000	0.6166	
1	4.295	4.295	0.000	508361	0.5000	0.6333	
1	4.497	4.497	0.000	507948	0.5000	0.5769	
1	4.716	4.716	0.000	304319	0.5000	0.5852	
1	4.902	4.902	0.000	435703	0.5000	0.6133	

Average of Peak Amounts = 0.6051

2	3.693	3.693	0.000	1162937	0.5000	0.4987	
2	3.782	3.782	0.000	1601148	0.5000	0.4846	
2	4.177	4.177	0.000	2445360	0.5000	0.4946	
2	4.309	4.309	0.000	2468034	0.5000	0.5334	
2	4.751	4.751	0.000	2039584	0.5000	0.4828	

Average of Peak Amounts = 0.4988

RPD = 19.25

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

21-54+IS CCV_00003

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:39

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-224.D

Injection Date: 28-Nov-2016 23:21:38

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 34

Client ID:

Injection Vol: 1.0 ul

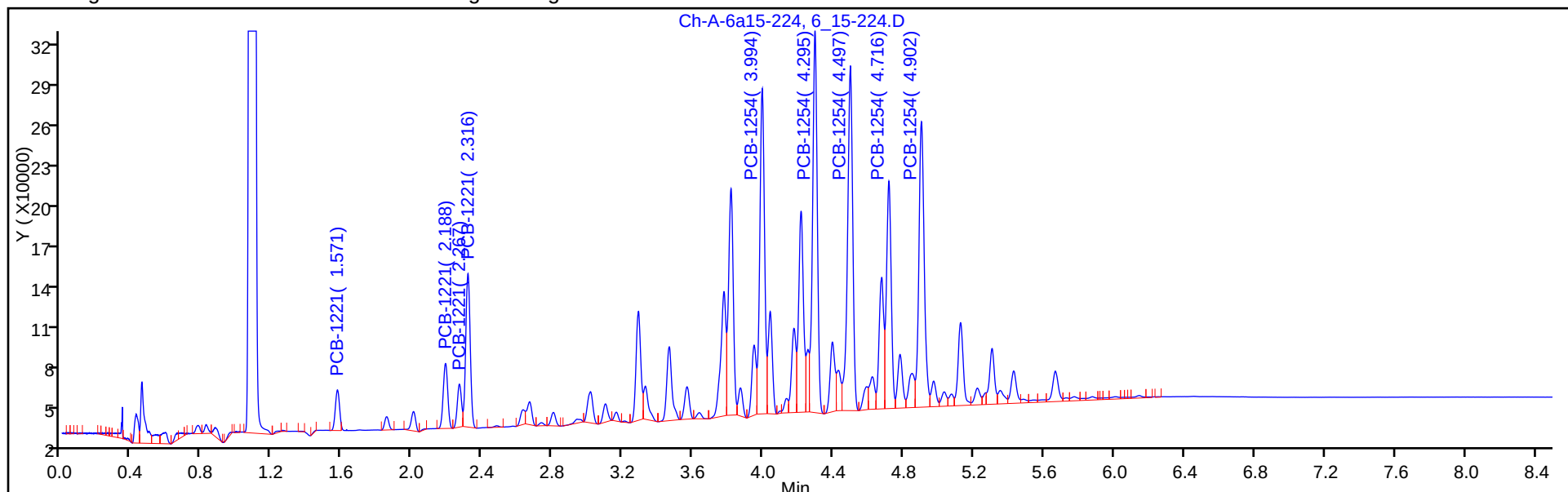
Dil. Factor: 1.0000

ALS Bottle#: 0

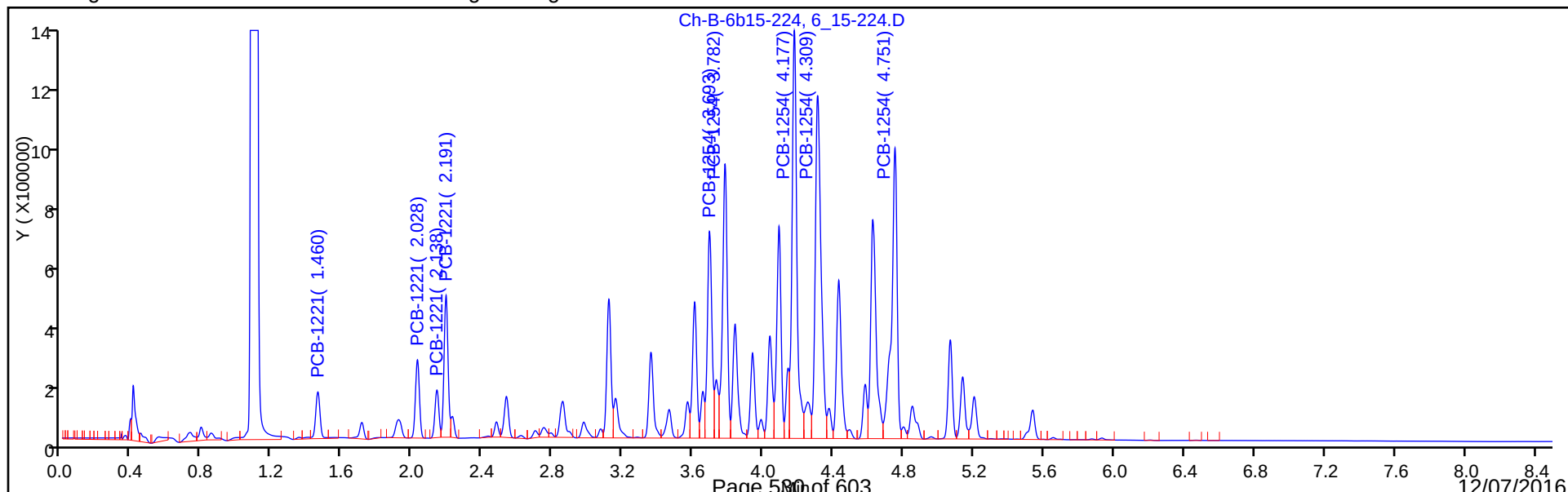
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCV 480-333712/35 Calibration Date: 11/28/2016 23:37
 Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 00:16
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 09/16/2016 00:48
 Lab File ID: 6_15-225.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		0.0221		0.561	0.500	12.2	20.0
PCB-1232 Peak 2	Lin1		0.0113		0.518	0.500	3.6	20.0
PCB-1232 Peak 3	Lin1		0.0380		0.544	0.500	8.7	20.0
PCB-1232 Peak 4	Lin1		0.0149		0.555	0.500	11.1	20.0
PCB-1232 Peak 5	Lin1		0.0101		0.544	0.500	8.7	20.0
PCB-1262 Peak 1	Ave	0.0458	0.0559		0.610	0.500	22.1*	20.0
PCB-1262 Peak 2	Lin1		0.0425		0.704	0.500	40.8*	20.0
PCB-1262 Peak 3	Ave	0.0754	0.0973		0.645	0.500	28.9*	20.0
PCB-1262 Peak 4	Lin1		0.0354		0.711	0.500	42.2*	20.0
PCB-1262 Peak 5	Ave	0.0285	0.0362		0.634	0.500	26.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/35 Calibration Date: 11/28/2016 23:37
Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 00:16
GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 09/16/2016 00:48
Lab File ID: 6_15-225.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.31	2.28	2.34
PCB-1232 Peak 2	2.79	2.76	2.82
PCB-1232 Peak 3	3.01	2.98	3.04
PCB-1232 Peak 4	3.09	3.06	3.12
PCB-1232 Peak 5	3.15	3.12	3.18
PCB-1262 Peak 1	5.02	4.99	5.05
PCB-1262 Peak 2	5.21	5.18	5.24
PCB-1262 Peak 3	5.42	5.39	5.45
PCB-1262 Peak 4	5.72	5.69	5.75
PCB-1262 Peak 5	5.76	5.73	5.79

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-225.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Nov-2016 23:37:35 ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:40 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 28-Nov-2016 23:54:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.083	1.083	0.000	7898257	0.5000	0.5000	
2	1.096	1.096	0.000	38064037	0.5000	0.5000	

RPD = 0.00

5 PCB-1232 M

1	2.308	2.308	0.000	174826	0.5000	0.5612	M
1	2.794	2.794	0.000	88890	0.5000	0.5180	
1	3.005	3.005	0.000	300434	0.5000	0.5436	M
1	3.091	3.091	0.000	117505	0.5000	0.5553	M
1	3.153	3.153	0.000	79598	0.5000	0.5437	M

Average of Peak Amounts = 0.5444

2	2.188	2.188	0.000	639241	0.5000	0.4833	
2	2.528	2.528	0.000	682649	0.5000	0.5176	
2	2.851	2.851	0.000	1313483	0.5000	0.4649	
2	2.973	2.973	0.000	496907	0.5000	0.4971	
2	3.069	3.069	0.000	296650	0.5000	0.4417	

Average of Peak Amounts = 0.4809

RPD = 12.38

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-225.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

10 PCB-1262 M

1 5.024 5.024 0.000 441573 0.5000 0.6103 M

1 5.214 5.214 0.000 335878 0.5000 0.7039 M

1 5.421 5.421 0.000 768354 0.5000 0.6447 M

1 5.722 5.722 0.000 279403 0.5000 0.7109 M

1 5.764 5.764 0.000 285598 0.5000 0.6344 M

Average of Peak Amounts = 0.6609

2 4.796 4.796 0.000 1921102 0.5000 0.4496

2 5.060 5.060 0.000 1703696 0.5000 0.4819

2 5.199 5.199 0.000 3587533 0.5000 0.4358

2 5.495 5.495 0.000 1427731 0.5000 0.4289

2 5.533 5.533 0.000 2245073 0.5000 0.4637

Average of Peak Amounts = 0.4520

RPD = 37.54

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

32-62+IS CCV_00003

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:40

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-225.D

Injection Date: 28-Nov-2016 23:37:35

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 35

Client ID:

Injection Vol: 1.0 ul

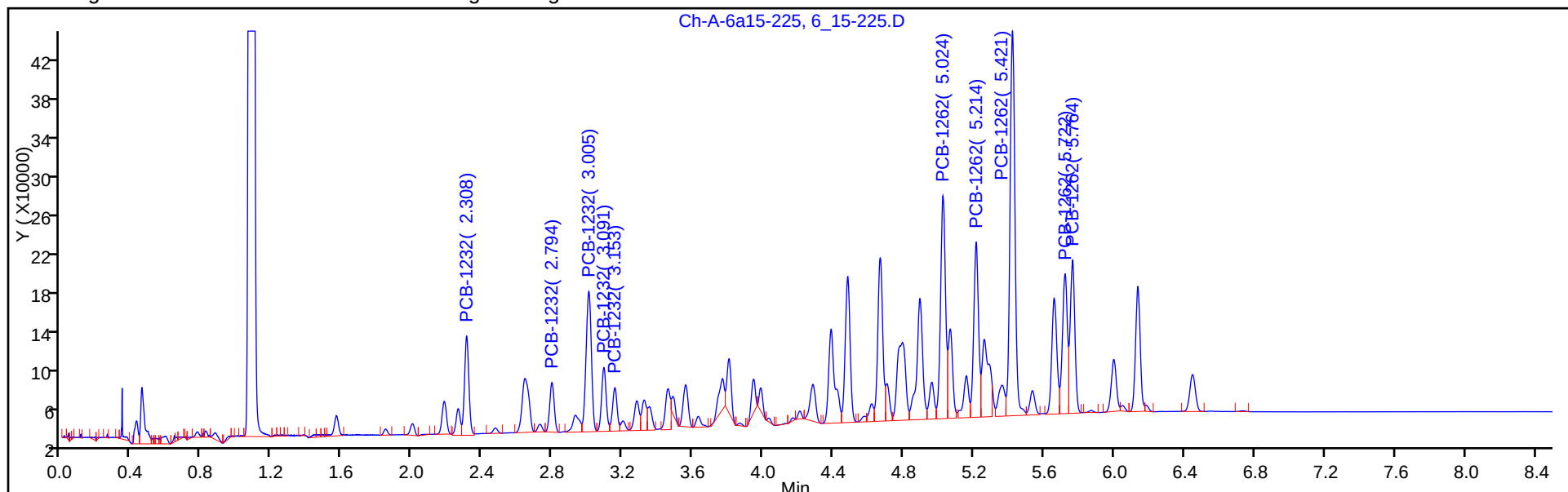
Dil. Factor: 1.0000

ALS Bottle#: 0

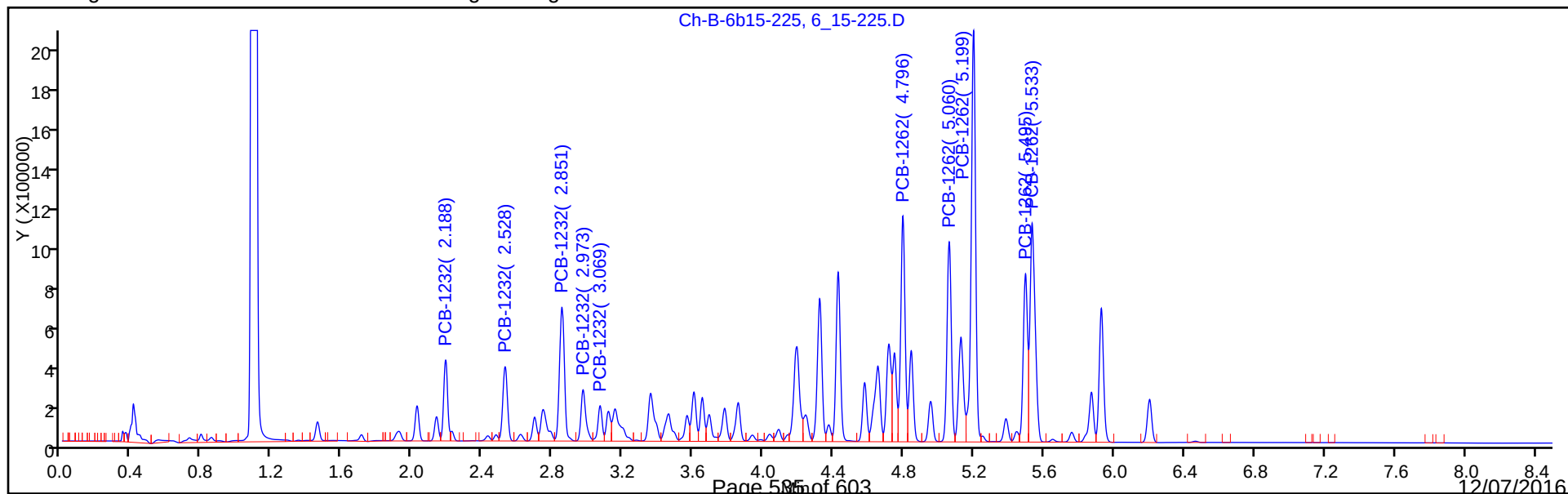
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-225.D

Injection Date: 28-Nov-2016 23:37:35

Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 35

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

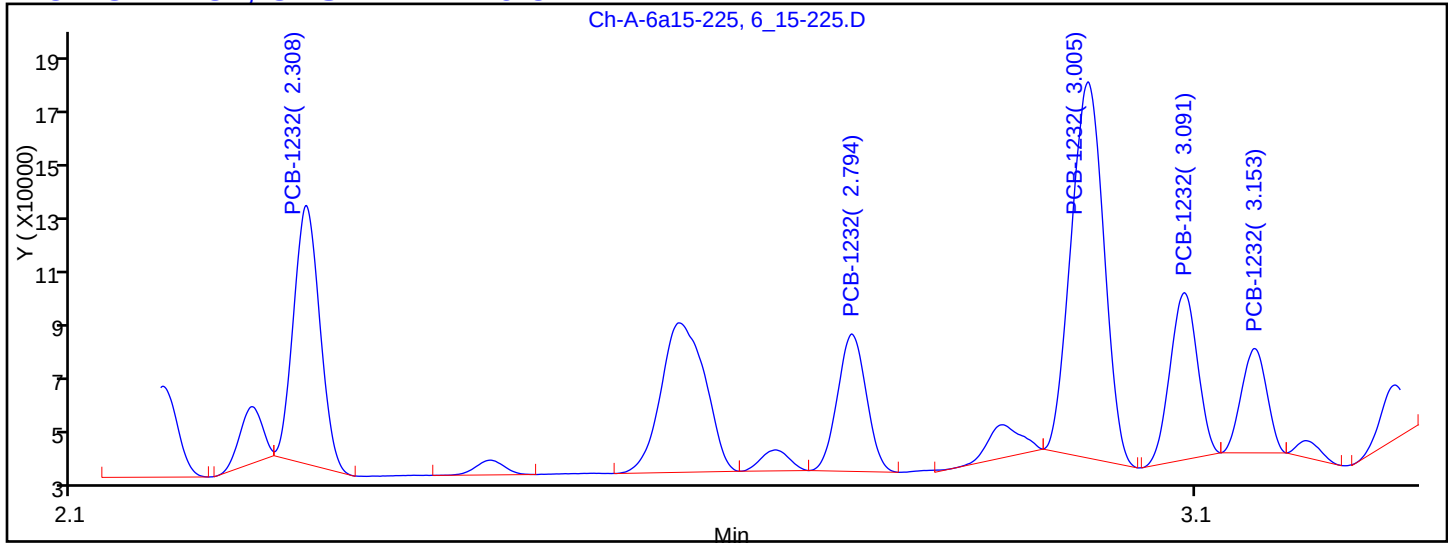
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

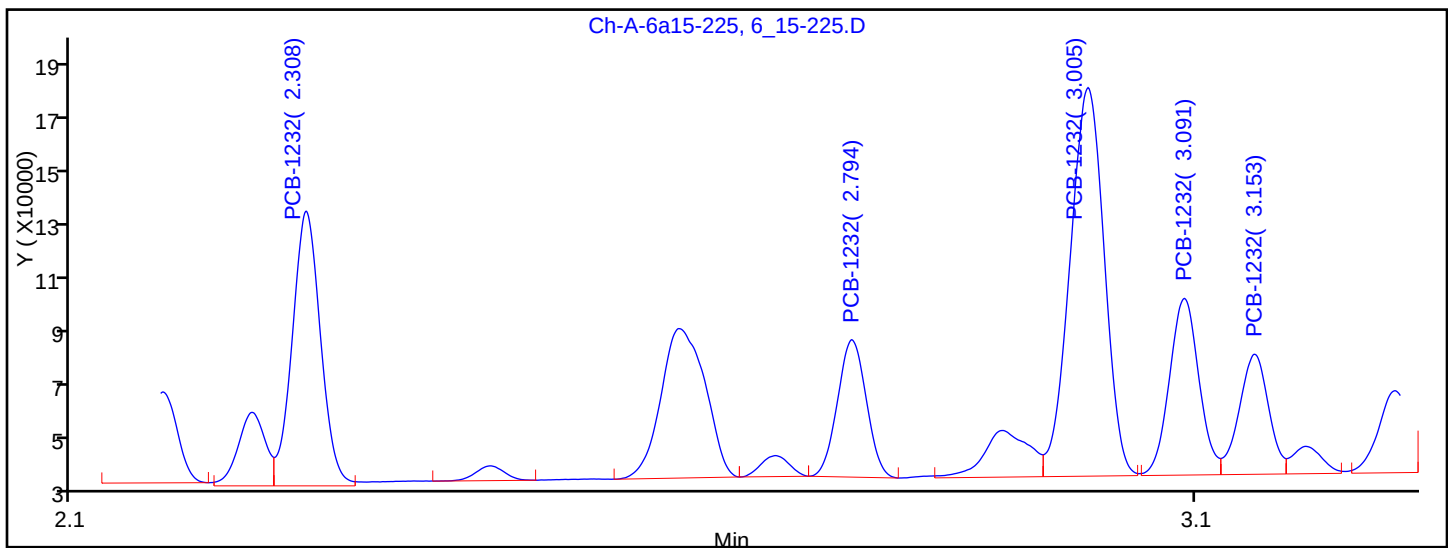
Detector Ch-A-7A136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.308	Response = 152562
2.794	Response = 88890
3.005	Response = 278656
3.091	Response = 103593
3.153	Response = 59651



Manual Integration Results

2.308	Response = 174826	M
2.794	Response = 88890	
3.005	Response = 300434	M
3.091	Response = 117505	M
3.153	Response = 79598	M

Reviewer: sobolk, 28-Nov-2016 23:54:08

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 536 of 603

12/07/2016

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-225.D

Injection Date: 28-Nov-2016 23:37:35

Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 35

Injection Vol: 1.0 ul

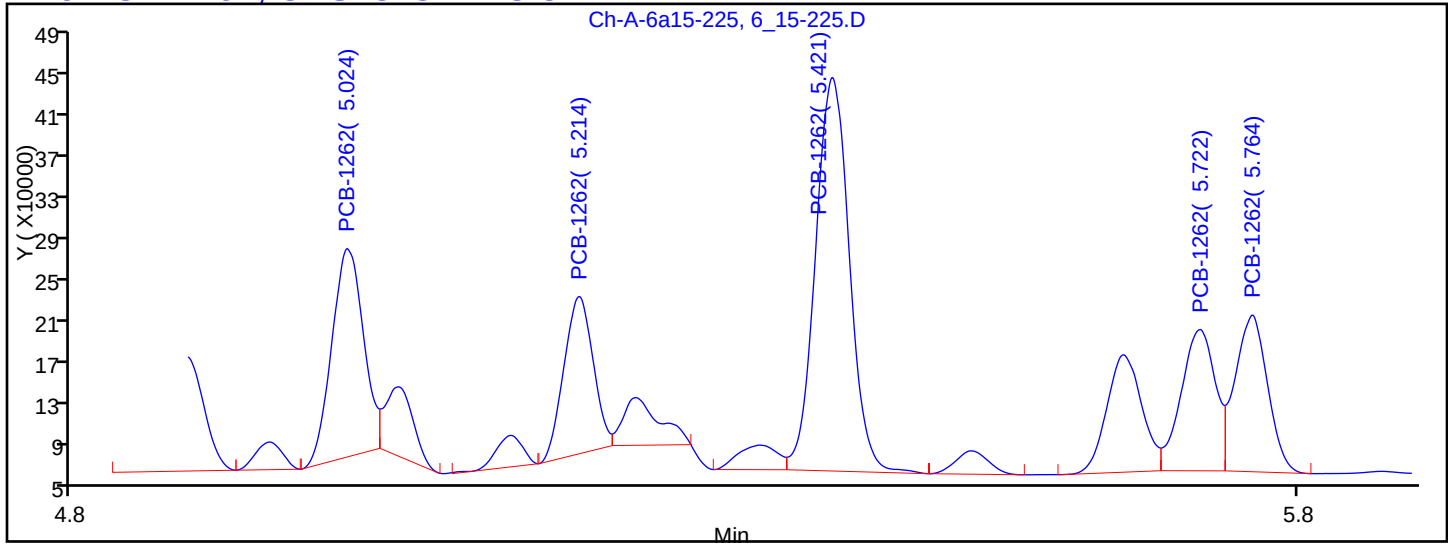
Dil. Factor: 1.0000

Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

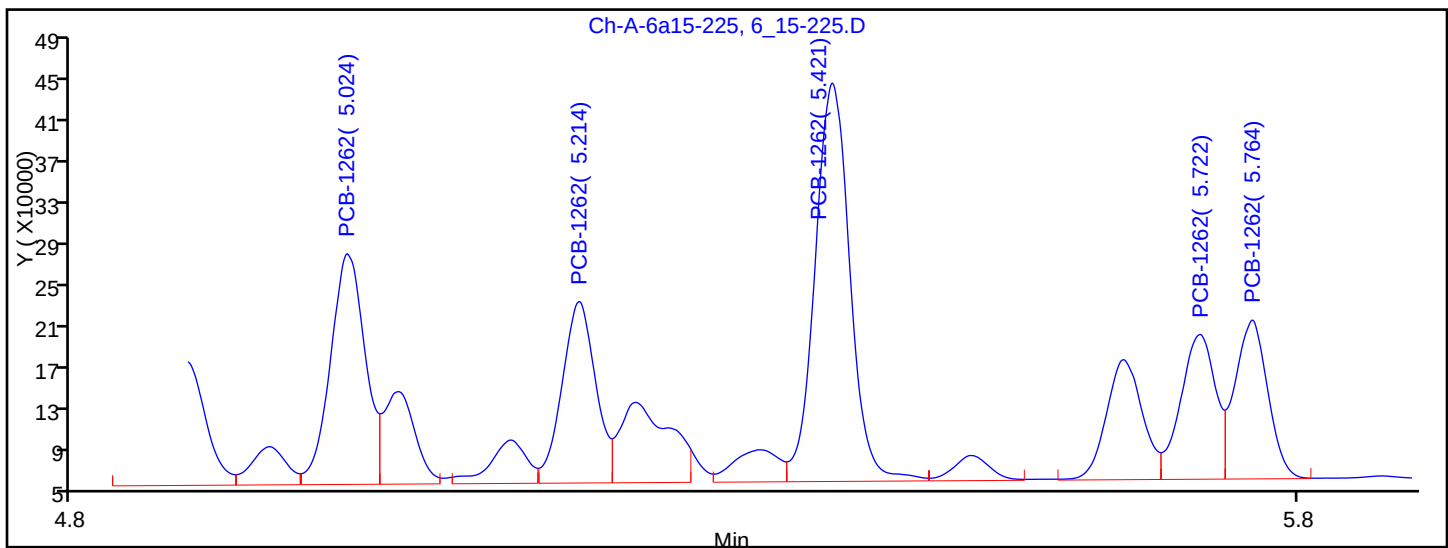
Column:

Detector Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5

Processing Integration Results

5.024	Response = 362896
5.214	Response = 253038
5.421	Response = 734552
5.722	Response = 267456
5.764	Response = 277507



Manual Integration Results

5.024	Response = 441573	M
5.214	Response = 335878	M
5.421	Response = 768354	M
5.722	Response = 279403	M
5.764	Response = 285598	M

Reviewer: sobolk, 28-Nov-2016 23:54:08

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
Page 537 of 603

12/07/2016

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCV 480-333712/35 Calibration Date: 11/28/2016 23:37
 Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 00:16
 GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 09/16/2016 00:48
 Lab File ID: 6_15-225.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		0.0168		0.483	0.500	-3.3	20.0
PCB-1232 Peak 2	Lin1		0.0179		0.518	0.500	3.5	20.0
PCB-1232 Peak 3	Ave	0.0371	0.0345		0.465	0.500	-7.0	20.0
PCB-1232 Peak 4	Lin1		0.0131		0.497	0.500	-0.6	20.0
PCB-1232 Peak 5	Lin1		0.0078		0.442	0.500	-11.7	20.0
PCB-1262 Peak 1	Ave	0.0561	0.0505		0.450	0.500	-10.1	20.0
PCB-1262 Peak 2	Ave	0.0464	0.0448		0.482	0.500	-3.6	20.0
PCB-1262 Peak 3	Ave	0.1081	0.0943		0.436	0.500	-12.8	20.0
PCB-1262 Peak 4	Ave	0.0437	0.0375		0.429	0.500	-14.2	20.0
PCB-1262 Peak 5	Ave	0.0636	0.0590		0.464	0.500	-7.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/35 Calibration Date: 11/28/2016 23:37
Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 00:16
GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 09/16/2016 00:48
Lab File ID: 6_15-225.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.19	2.16	2.22
PCB-1232 Peak 2	2.53	2.50	2.56
PCB-1232 Peak 3	2.85	2.82	2.88
PCB-1232 Peak 4	2.97	2.94	3.00
PCB-1232 Peak 5	3.07	3.04	3.10
PCB-1262 Peak 1	4.80	4.77	4.83
PCB-1262 Peak 2	5.06	5.03	5.09
PCB-1262 Peak 3	5.20	5.17	5.23
PCB-1262 Peak 4	5.50	5.47	5.53
PCB-1262 Peak 5	5.53	5.50	5.56

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-225.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Nov-2016 23:37:35 ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: #:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub5
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:40 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 28-Nov-2016 23:54:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.083	1.083	0.000	7898257	0.5000	0.5000	
2	1.096	1.096	0.000	38064037	0.5000	0.5000	

RPD = 0.00

5 PCB-1232 M

1	2.308	2.308	0.000	174826	0.5000	0.5612	M
1	2.794	2.794	0.000	88890	0.5000	0.5180	
1	3.005	3.005	0.000	300434	0.5000	0.5436	M
1	3.091	3.091	0.000	117505	0.5000	0.5553	M
1	3.153	3.153	0.000	79598	0.5000	0.5437	M

Average of Peak Amounts = 0.5444

2	2.188	2.188	0.000	639241	0.5000	0.4833	
2	2.528	2.528	0.000	682649	0.5000	0.5176	
2	2.851	2.851	0.000	1313483	0.5000	0.4649	
2	2.973	2.973	0.000	496907	0.5000	0.4971	
2	3.069	3.069	0.000	296650	0.5000	0.4417	

Average of Peak Amounts = 0.4809

RPD = 12.38

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-225.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

10 PCB-1262

M

1	5.024	5.024	0.000	441573	0.5000	0.6103	M
1	5.214	5.214	0.000	335878	0.5000	0.7039	M
1	5.421	5.421	0.000	768354	0.5000	0.6447	M
1	5.722	5.722	0.000	279403	0.5000	0.7109	M
1	5.764	5.764	0.000	285598	0.5000	0.6344	M

Average of Peak Amounts =

0.6609

2	4.796	4.796	0.000	1921102	0.5000	0.4496	
2	5.060	5.060	0.000	1703696	0.5000	0.4819	
2	5.199	5.199	0.000	3587533	0.5000	0.4358	
2	5.495	5.495	0.000	1427731	0.5000	0.4289	
2	5.533	5.533	0.000	2245073	0.5000	0.4637	

Average of Peak Amounts =

0.4520

RPD = 37.54

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

32-62+IS CCV_00003

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:42

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-225.D

Injection Date: 28-Nov-2016 23:37:35

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 35

Client ID:

Injection Vol: 1.0 ul

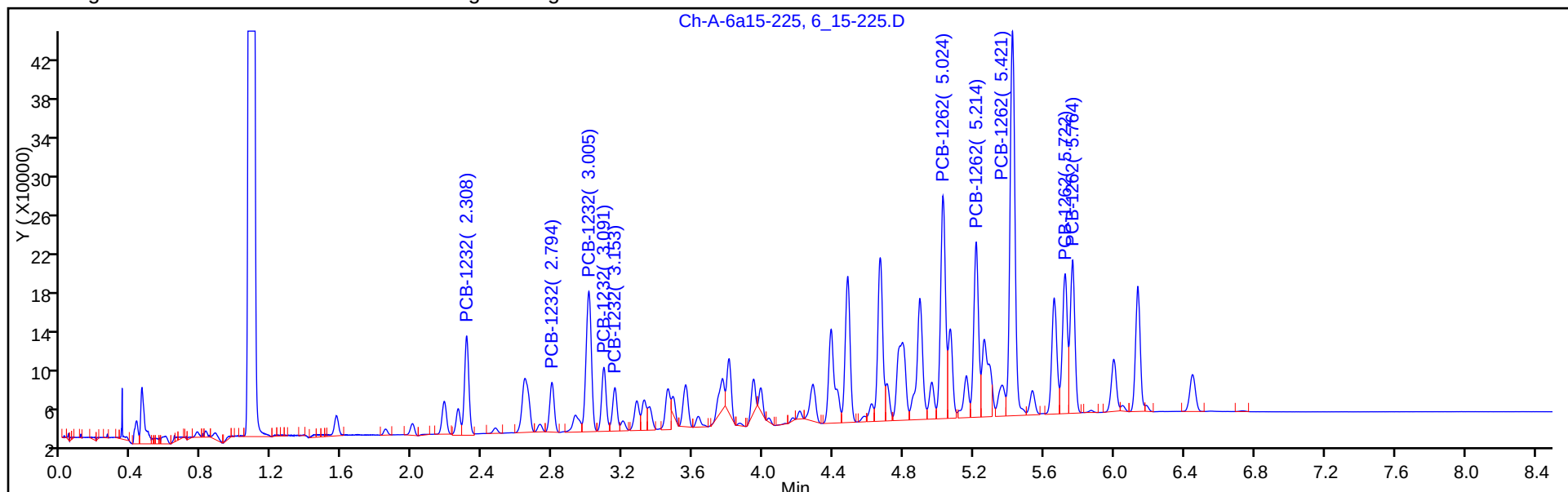
Dil. Factor: 1.0000

ALS Bottle#: 0

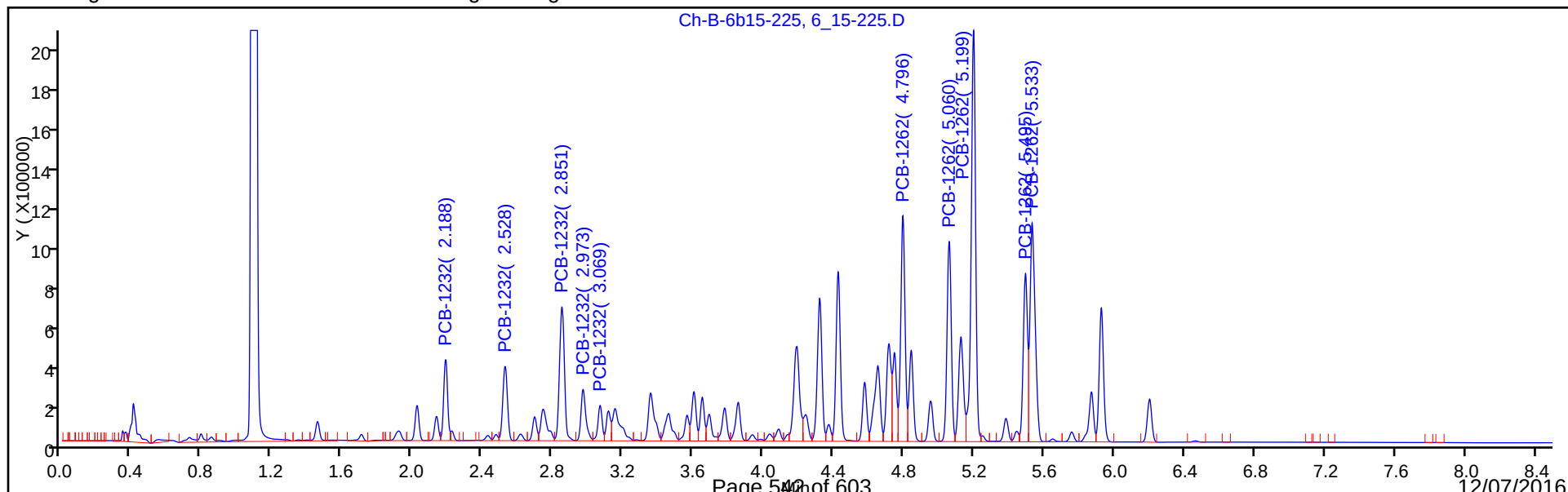
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCV 480-333712/36 Calibration Date: 11/28/2016 23:53
 Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 01:20
 GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 09/16/2016 01:52
 Lab File ID: 6_15-226.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	0.0719	0.0711		0.495	0.500	-1.1	20.0
PCB-1242 Peak 2	Lin1		0.0259		0.558	0.500	11.7	20.0
PCB-1242 Peak 3	Lin1		0.0229		0.568	0.500	13.6	20.0
PCB-1242 Peak 4	Lin1		0.0246		0.595	0.500	19.1	20.0
PCB-1242 Peak 5	Lin1		0.0230		0.603	0.500	20.5*	20.0
PCB-1268 Peak 1	Ave	0.0837	0.1140		0.681	0.500	36.2*	20.0
PCB-1268 Peak 2	Ave	0.0717	0.0996		0.695	0.500	39.0*	20.0
PCB-1268 Peak 3	Ave	0.0619	0.0853		0.690	0.500	37.9*	20.0
PCB-1268 Peak 4	Ave	0.0264	0.0351		0.666	0.500	33.2*	20.0
PCB-1268 Peak 5	Ave	0.1974	0.2828		0.716	0.500	43.3*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/36 Calibration Date: 11/28/2016 23:53
Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 01:20
GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 09/16/2016 01:52
Lab File ID: 6_15-226.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	3.01	2.98	3.04
PCB-1242 Peak 2	3.09	3.06	3.12
PCB-1242 Peak 3	3.56	3.53	3.59
PCB-1242 Peak 4	3.80	3.77	3.83
PCB-1242 Peak 5	3.94	3.91	3.97
PCB-1268 Peak 1	5.72	5.69	5.75
PCB-1268 Peak 2	5.76	5.73	5.79
PCB-1268 Peak 3	5.99	5.96	6.02
PCB-1268 Peak 4	6.14	6.11	6.17
PCB-1268 Peak 5	6.45	6.42	6.48

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-226.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Nov-2016 23:53:36 ALS Bottle#: 0 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:43 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 29-Nov-2016 00:21:05

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.081	1.081	0.000	7588915	0.5000	0.5000
2	1.095	1.095	0.000	36716056	0.5000	0.5000

RPD = 0.00

4 PCB-1242

1	3.006	3.006	0.000	539396	0.5000	0.4945
1	3.090	3.090	0.000	196298	0.5000	0.5584
1	3.558	3.558	0.000	173510	0.5000	0.5680
1	3.803	3.803	0.000	186571	0.5000	0.5954
1	3.944	3.944	0.000	174289	0.5000	0.6027

Average of Peak Amounts = 0.5638

2	2.853	2.853	0.000	2333394	0.5000	0.4841
2	2.973	2.973	0.000	854471	0.5000	0.4653
2	3.358	3.358	0.000	1074772	0.5000	0.4791
2	3.605	3.605	0.000	831276	0.5000	0.5280
2	3.857	3.857	0.000	660139	0.5000	0.3877

Average of Peak Amounts = 0.4688

RPD = 18.40

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-226.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

13 PCB-1268

1	5.721	5.721	0.000	865257	0.5000	0.6812	
1	5.764	5.764	0.000	756177	0.5000	0.6950	
1	5.989	5.989	0.000	647574	0.5000	0.6896	
1	6.137	6.137	0.000	266698	0.5000	0.6658	
1	6.448	6.448	0.000	2146266	0.5000	0.7163	

Average of Peak Amounts = 0.6896

2	5.496	5.496	0.000	3805439	0.5000	0.4513	
2	5.533	5.533	0.000	3650057	0.5000	0.4714	
2	5.758	5.758	0.000	2999395	0.5000	0.4463	
2	5.928	5.928	0.000	1224488	0.5000	0.4438	
2	6.203	6.203	0.000	10243915	0.5000	0.4708	

Average of Peak Amounts = 0.4567

RPD = 40.63

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

42-68+IS CCV_00003

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:43

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-226.D

Injection Date: 28-Nov-2016 23:53:36

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 36

Client ID:

Injection Vol: 1.0 ul

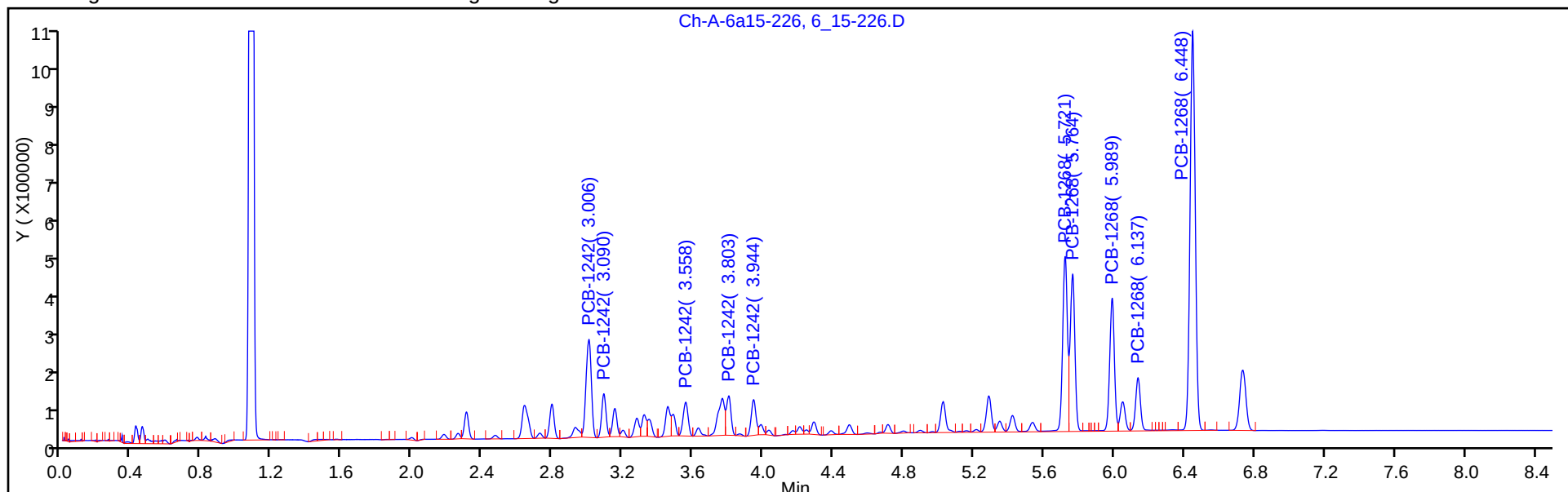
Dil. Factor: 1.0000

ALS Bottle#: 0

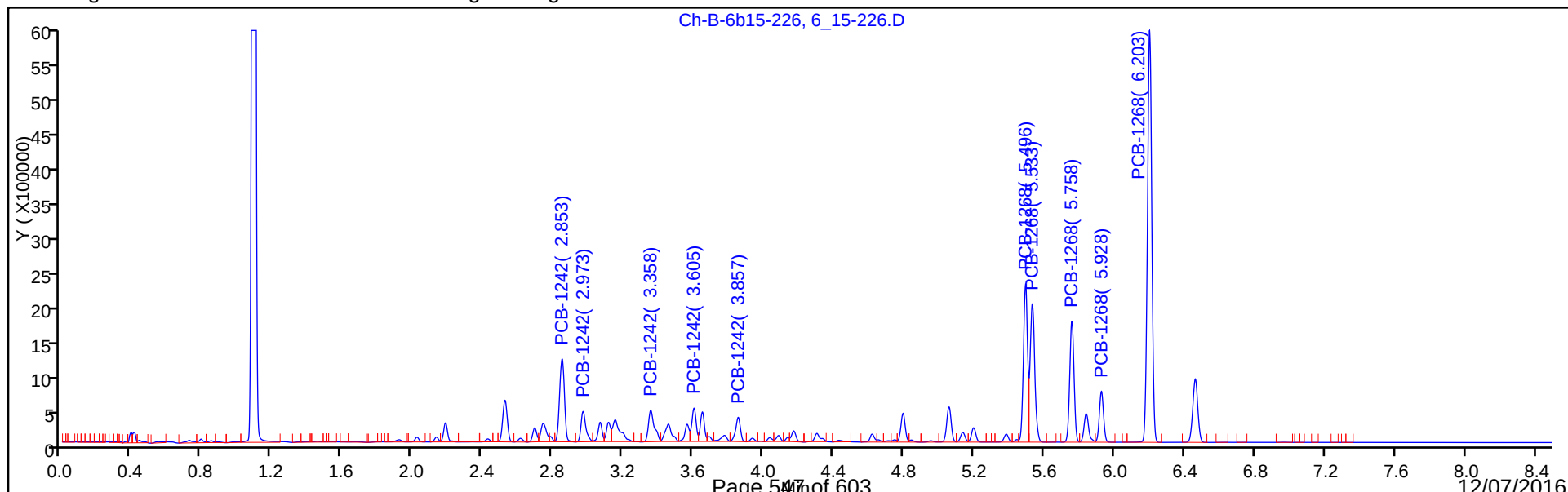
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCV 480-333712/36 Calibration Date: 11/28/2016 23:53
 Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 01:20
 GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 09/16/2016 01:52
 Lab File ID: 6_15-226.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	0.0656	0.0636		0.484	0.500	-3.2	20.0
PCB-1242 Peak 2	Ave	0.0250	0.0233		0.465	0.500	-6.9	20.0
PCB-1242 Peak 3	Ave	0.0306	0.0293		0.479	0.500	-4.2	20.0
PCB-1242 Peak 4	Ave	0.0214	0.0226		0.528	0.500	5.6	20.0
PCB-1242 Peak 5	Ave	0.0232	0.0180		0.388	0.500	-22.5*	20.0
PCB-1268 Peak 1	Ave	0.1148	0.1037		0.451	0.500	-9.7	20.0
PCB-1268 Peak 2	Ave	0.1054	0.0994		0.471	0.500	-5.7	20.0
PCB-1268 Peak 3	Ave	0.0915	0.0817		0.446	0.500	-10.7	20.0
PCB-1268 Peak 4	Ave	0.0376	0.0334		0.444	0.500	-11.2	20.0
PCB-1268 Peak 5	Ave	0.2963	0.2790		0.471	0.500	-5.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/36 Calibration Date: 11/28/2016 23:53
Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 01:20
GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 09/16/2016 01:52
Lab File ID: 6_15-226.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.85	2.82	2.88
PCB-1242 Peak 2	2.97	2.94	3.00
PCB-1242 Peak 3	3.36	3.33	3.39
PCB-1242 Peak 4	3.61	3.58	3.64
PCB-1242 Peak 5	3.86	3.83	3.89
PCB-1268 Peak 1	5.50	5.47	5.53
PCB-1268 Peak 2	5.53	5.50	5.56
PCB-1268 Peak 3	5.76	5.73	5.79
PCB-1268 Peak 4	5.93	5.90	5.96
PCB-1268 Peak 5	6.20	6.17	6.23

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-226.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 28-Nov-2016 23:53:36 ALS Bottle#: 0 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:43 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 29-Nov-2016 00:21:05

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.081	1.081	0.000	7588915	0.5000	0.5000
2	1.095	1.095	0.000	36716056	0.5000	0.5000

RPD = 0.00

4 PCB-1242

1	3.006	3.006	0.000	539396	0.5000	0.4945
1	3.090	3.090	0.000	196298	0.5000	0.5584
1	3.558	3.558	0.000	173510	0.5000	0.5680
1	3.803	3.803	0.000	186571	0.5000	0.5954
1	3.944	3.944	0.000	174289	0.5000	0.6027

Average of Peak Amounts = 0.5638

2	2.853	2.853	0.000	2333394	0.5000	0.4841
2	2.973	2.973	0.000	854471	0.5000	0.4653
2	3.358	3.358	0.000	1074772	0.5000	0.4791
2	3.605	3.605	0.000	831276	0.5000	0.5280
2	3.857	3.857	0.000	660139	0.5000	0.3877

Average of Peak Amounts = 0.4688

RPD = 18.40

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-226.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

13 PCB-1268

1	5.721	5.721	0.000	865257	0.5000	0.6812	
1	5.764	5.764	0.000	756177	0.5000	0.6950	
1	5.989	5.989	0.000	647574	0.5000	0.6896	
1	6.137	6.137	0.000	266698	0.5000	0.6658	
1	6.448	6.448	0.000	2146266	0.5000	0.7163	

Average of Peak Amounts = 0.6896

2	5.496	5.496	0.000	3805439	0.5000	0.4513	
2	5.533	5.533	0.000	3650057	0.5000	0.4714	
2	5.758	5.758	0.000	2999395	0.5000	0.4463	
2	5.928	5.928	0.000	1224488	0.5000	0.4438	
2	6.203	6.203	0.000	10243915	0.5000	0.4708	

Average of Peak Amounts = 0.4567

RPD = 40.63

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

42-68+IS CCV_00003

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:44

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-226.D

Injection Date: 28-Nov-2016 23:53:36

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 36

Client ID:

Injection Vol: 1.0 ul

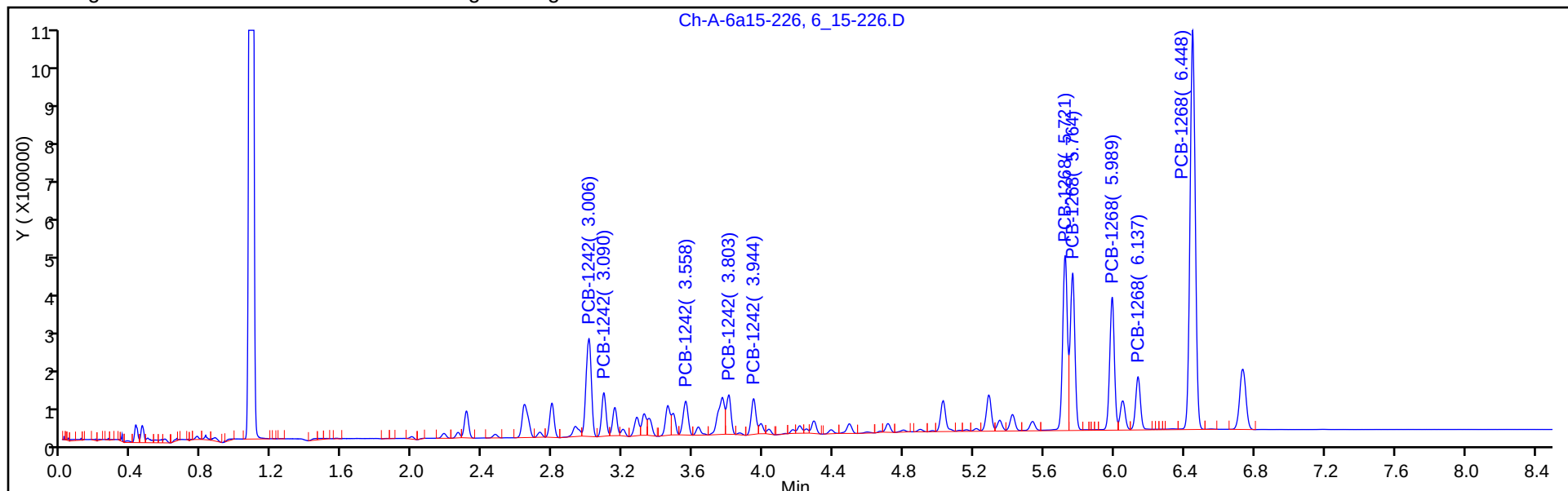
Dil. Factor: 1.0000

ALS Bottle#: 0

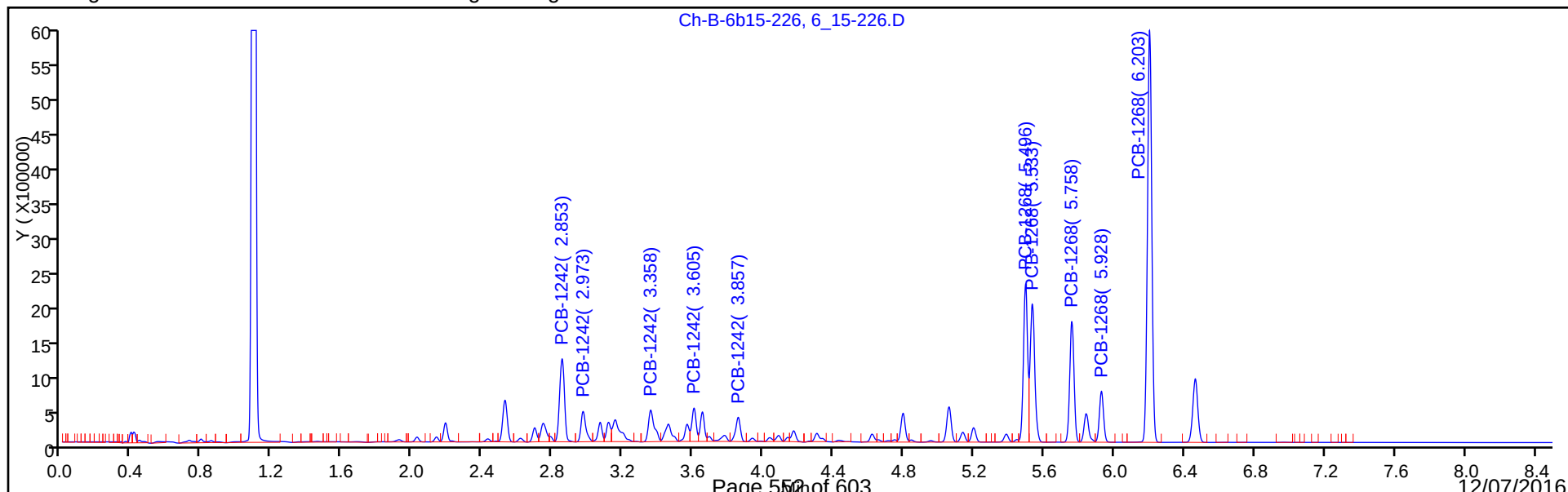
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCV 480-333712/37 Calibration Date: 11/29/2016 00:09
 Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 02:24
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 09/16/2016 02:56
 Lab File ID: 6_15-227.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0229	0.0262		0.573	0.500	14.5	20.0
PCB-1248 Peak 2	Lin1		0.0367		0.640	0.500	28.0*	20.0
PCB-1248 Peak 3	Lin1		0.0596		0.636	0.500	27.2*	20.0
PCB-1248 Peak 4	Lin1		0.0451		0.656	0.500	31.3*	20.0
PCB-1248 Peak 5	Lin1		0.0371		0.663	0.500	32.7*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/37 Calibration Date: 11/29/2016 00:09
Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 02:24
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 09/16/2016 02:56
Lab File ID: 6_15-227.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.28	3.25	3.31
PCB-1248 Peak 2	3.56	3.53	3.59
PCB-1248 Peak 3	3.77	3.74	3.80
PCB-1248 Peak 4	3.80	3.77	3.83
PCB-1248 Peak 5	3.94	3.91	3.97

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-227.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 29-Nov-2016 00:09:30 ALS Bottle#: 0 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:45 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 29-Nov-2016 00:42:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.080	1.080	0.000	7465521	0.5000	0.5000	
2	1.094	1.094	0.000	36221099	0.5000	0.5000	

RPD = 0.00

7 PCB-1248 M

1	3.278	3.278	0.000	195710	0.5000	0.5727	M
1	3.558	3.558	0.000	273863	0.5000	0.6399	M
1	3.766	3.766	0.000	444928	0.5000	0.6362	M
1	3.803	3.803	0.000	336322	0.5000	0.6564	M
1	3.944	3.944	0.000	276616	0.5000	0.6633	M

Average of Peak Amounts = 0.6337

2	3.116	3.116	0.000	901455	0.5000	0.4988	M
2	3.356	3.356	0.000	1524886	0.5000	0.5078	M
2	3.604	3.604	0.000	1454747	0.5000	0.5540	M
2	3.652	3.652	0.000	1113721	0.5000	0.5313	M
2	3.856	3.856	0.000	1243396	0.5000	0.4671	M

Average of Peak Amounts = 0.5118
RPD = 21.28

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

1248+IS CCV_00003

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:46

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-227.D

Injection Date: 29-Nov-2016 00:09:30

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 37

Client ID:

Injection Vol: 1.0 ul

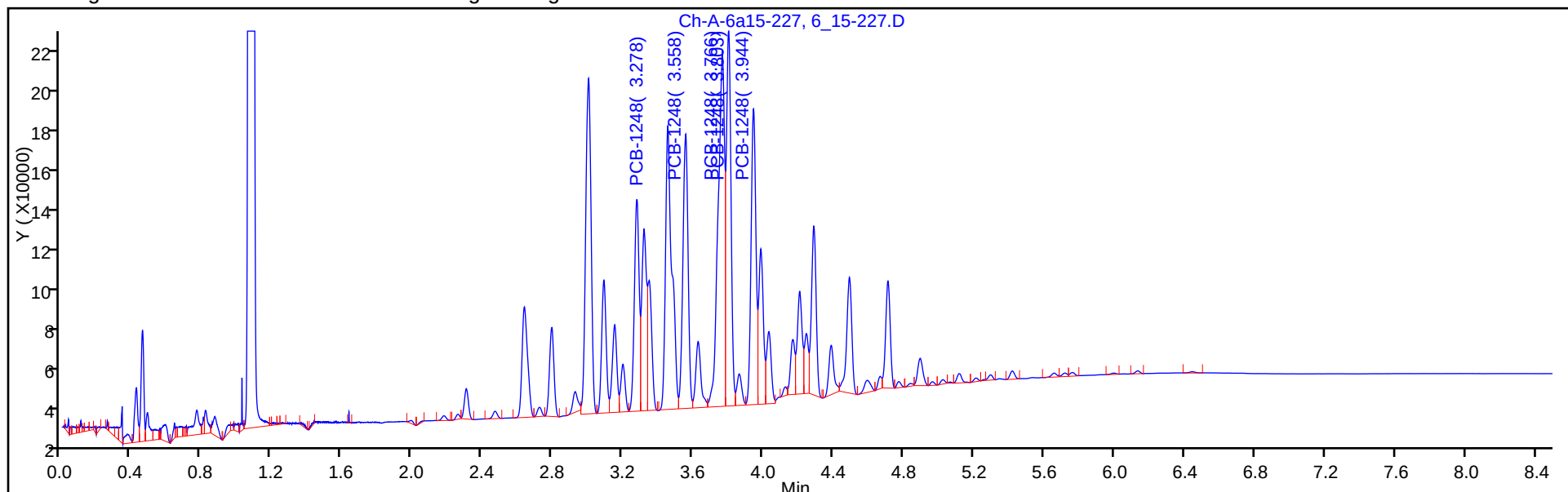
Dil. Factor: 1.0000

ALS Bottle#: 0

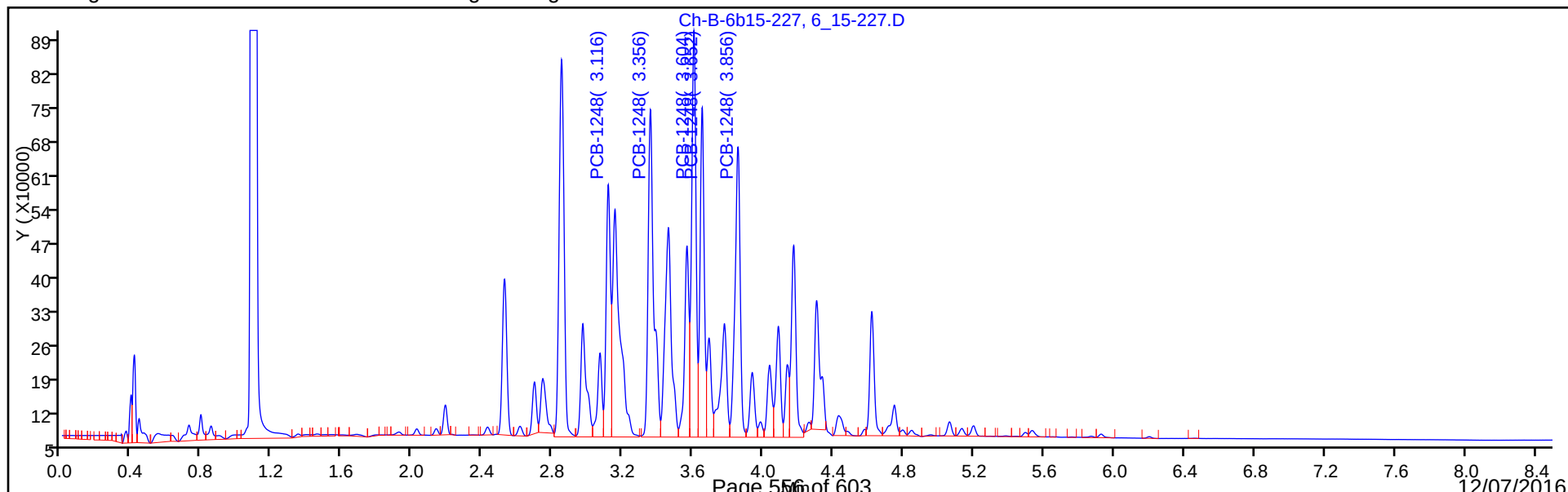
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-227.D

Injection Date: 29-Nov-2016 00:09:30

Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 37

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

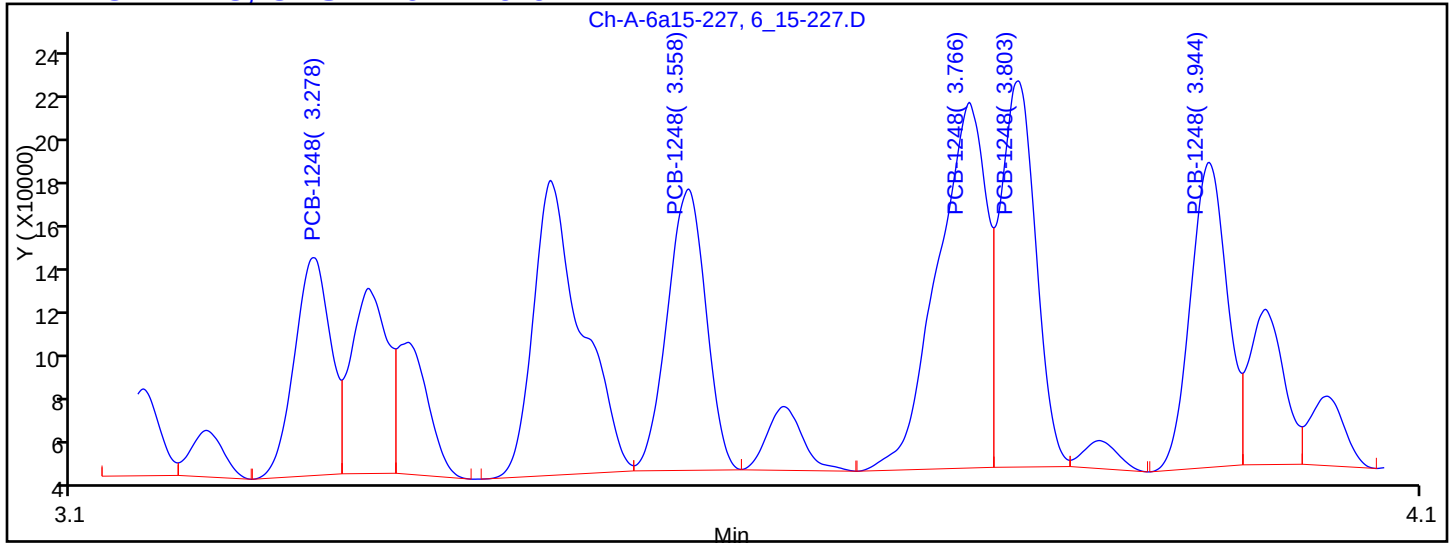
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

Column:

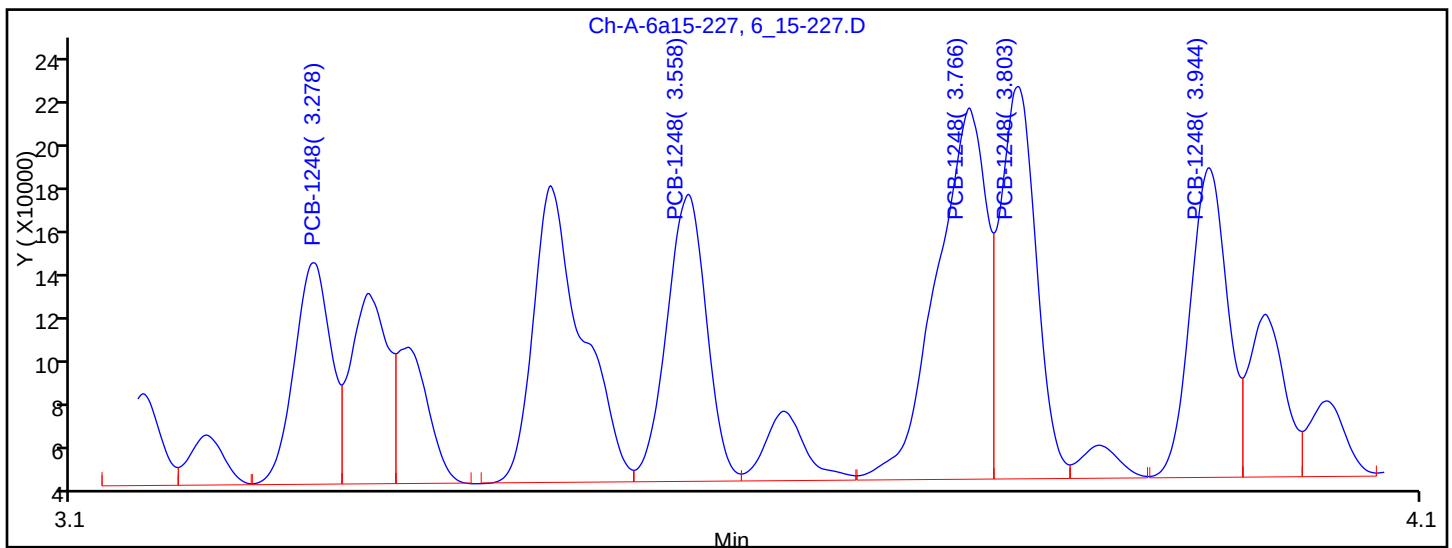
Detector Ch-A-7A136

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.278	Response = 189676
3.558	Response = 259540
3.766	Response = 428818
3.803	Response = 324944
3.944	Response = 267911



Manual Integration Results

3.278	Response = 195710	M
3.558	Response = 273863	M
3.766	Response = 444928	M
3.803	Response = 336322	M
3.944	Response = 276616	M

Reviewer: sobolk, 29-Nov-2016 00:42:12

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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12/07/2016

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Lab Sample ID: CCV 480-333712/37 Calibration Date: 11/29/2016 00:09
 Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 02:24
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 09/16/2016 02:56
 Lab File ID: 6_15-227.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	0.0249	0.0249		0.499	0.500	-0.2	20.0
PCB-1248 Peak 2	Ave	0.0415	0.0421		0.508	0.500	1.6	20.0
PCB-1248 Peak 3	Ave	0.0362	0.0402		0.554	0.500	10.8	20.0
PCB-1248 Peak 4	Ave	0.0289	0.0308		0.531	0.500	6.3	20.0
PCB-1248 Peak 5	Ave	0.0367	0.0343		0.467	0.500	-6.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Lab Sample ID: CCV 480-333712/37 Calibration Date: 11/29/2016 00:09
Instrument ID: HP6890-6 Calib Start Date: 09/16/2016 02:24
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 09/16/2016 02:56
Lab File ID: 6_15-227.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.12	3.09	3.15
PCB-1248 Peak 2	3.36	3.33	3.39
PCB-1248 Peak 3	3.60	3.57	3.63
PCB-1248 Peak 4	3.65	3.62	3.68
PCB-1248 Peak 5	3.86	3.83	3.89

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-227.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 29-Nov-2016 00:09:30 ALS Bottle#: 0 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Sublist: chrom-6890-6 PCB*sub7
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 00:42:45 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 29-Nov-2016 00:42:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

* 1 1-Bromo-2-nitrobenzene s

1	1.080	1.080	0.000	7465521	0.5000	0.5000	
2	1.094	1.094	0.000	36221099	0.5000	0.5000	

RPD = 0.00

7 PCB-1248 M

1	3.278	3.278	0.000	195710	0.5000	0.5727	M
1	3.558	3.558	0.000	273863	0.5000	0.6399	M
1	3.766	3.766	0.000	444928	0.5000	0.6362	M
1	3.803	3.803	0.000	336322	0.5000	0.6564	M
1	3.944	3.944	0.000	276616	0.5000	0.6633	M

Average of Peak Amounts = 0.6337

2	3.116	3.116	0.000	901455	0.5000	0.4988	M
2	3.356	3.356	0.000	1524886	0.5000	0.5078	M
2	3.604	3.604	0.000	1454747	0.5000	0.5540	M
2	3.652	3.652	0.000	1113721	0.5000	0.5313	M
2	3.856	3.856	0.000	1243396	0.5000	0.4671	M

Average of Peak Amounts = 0.5118
RPD = 21.28

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

1248+IS CCV_00003

Amount Added: 1.00

Units: mL

Report Date: 29-Nov-2016 00:42:46

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-227.D

Injection Date: 29-Nov-2016 00:09:30

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 37

Client ID:

Injection Vol: 1.0 ul

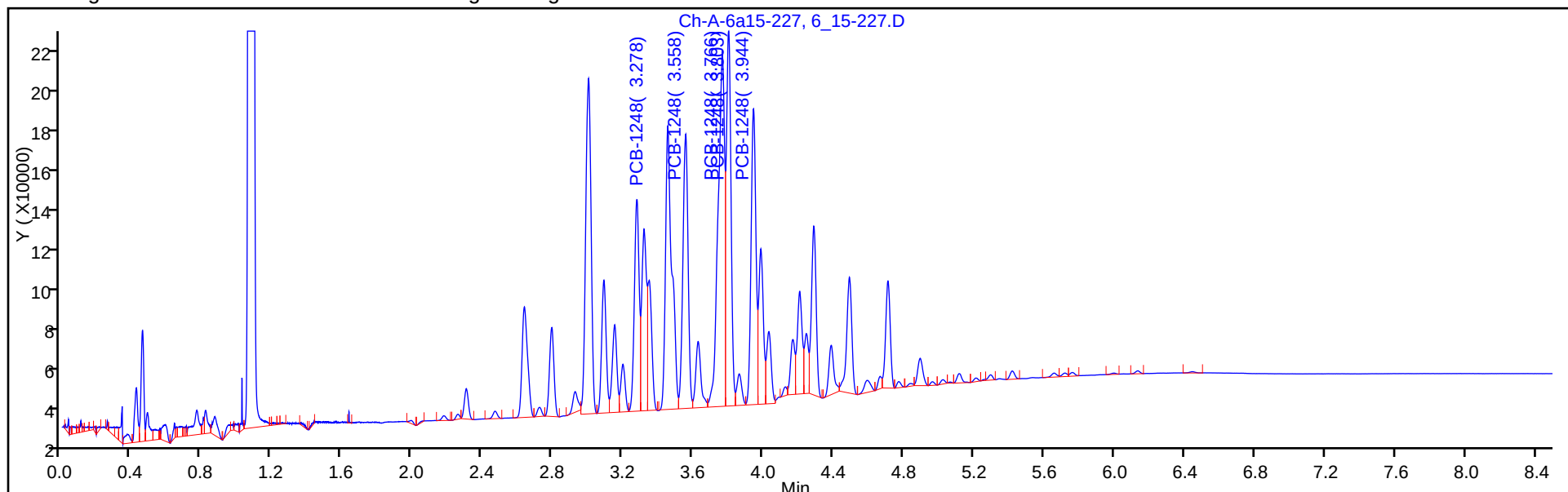
Dil. Factor: 1.0000

ALS Bottle#: 0

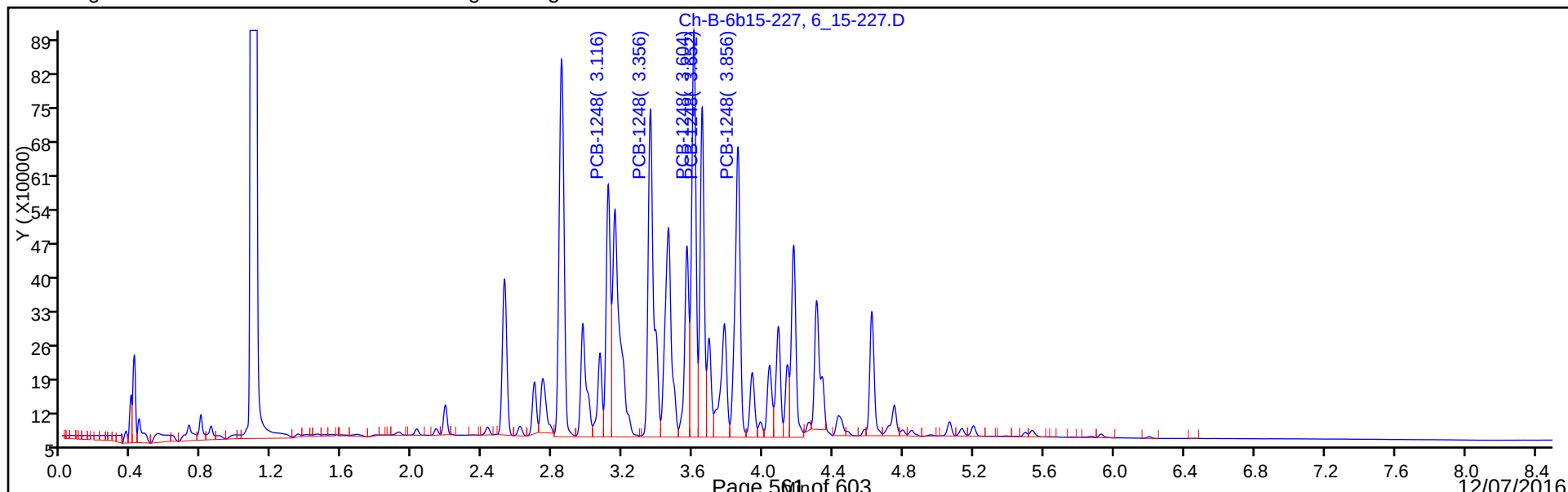
Method: 6890-6 PCB

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

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-227.D

Injection Date: 29-Nov-2016 00:09:30

Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

Operator ID: BufTCHROM

ALS Bottle#: 0

Worklist Smp#: 37

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

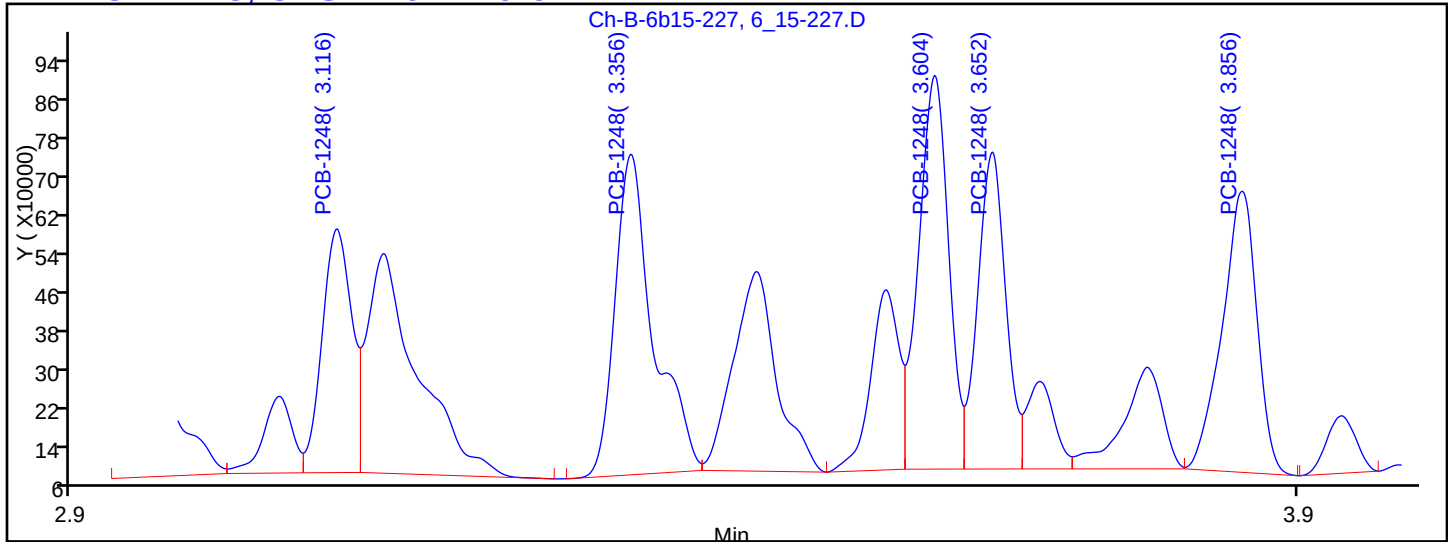
Method: 6890-6 PCB

Limit Group: GC - 8082A PCB IS ICAL

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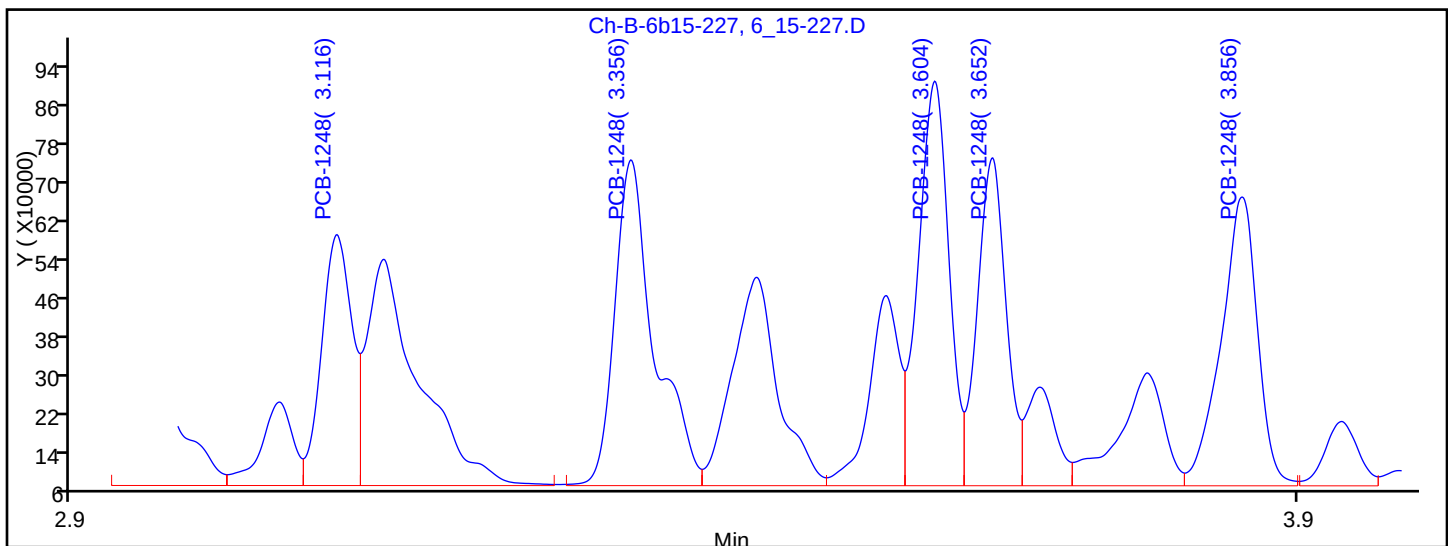
Detector Ch-B-7b136

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.116	Response = 859258
3.356	Response = 1451281
3.604	Response = 1388866
3.652	Response = 1048174
3.856	Response = 1152870



Manual Integration Results

3.116	Response = 901455	M
3.356	Response = 1524886	M
3.604	Response = 1454747	M
3.652	Response = 1113721	M
3.856	Response = 1243396	M

Reviewer: sobolk, 29-Nov-2016 00:42:12

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing
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12/07/2016

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-333619/1-A
Matrix: Water Lab File ID: 6_15-232.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
Sample wt/vol: 250 (mL) Date Analyzed: 11/29/2016 01:29
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	69		19-120
877-09-8	Tetrachloro-m-xylene	83		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-232.D
 Lims ID: MB 480-333619/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 29-Nov-2016 01:29:20 ALS Bottle#: 0 Worklist Smp#: 42
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 02:03:21 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk Date: 29-Nov-2016 02:03:31

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	1.082	1.080	0.002	6672484	0.5000	0.5000	
2	1.096	1.094	0.002	35920158	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.035	2.035	0.000	228002	0.0200	0.0166	
2	1.755	1.756	-0.001	1034209	0.0200	0.0171	
RPD = 3.10							

9 1260 Res 1

1	5.641	5.658	-0.017	9841		NR	
2	5.063	5.062	0.000	23194		NR	
RPD = NaN							

\$ 15 DCB Decachlorobiphenyl

1	6.735	6.732	0.003	130090	0.0200	0.0139	
2	6.463	6.462	0.000	599135	0.0200	0.0121	
RPD = 13.99							

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019	Amount Added: 20.00	Units: uL	Run Reagent
COPPER_00063	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 29-Nov-2016 02:03:32

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-232.D

Injection Date: 29-Nov-2016 01:29:20

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: MB 480-333619/1-A

Worklist Smp#: 42

Client ID:

Injection Vol: 1.0 ul

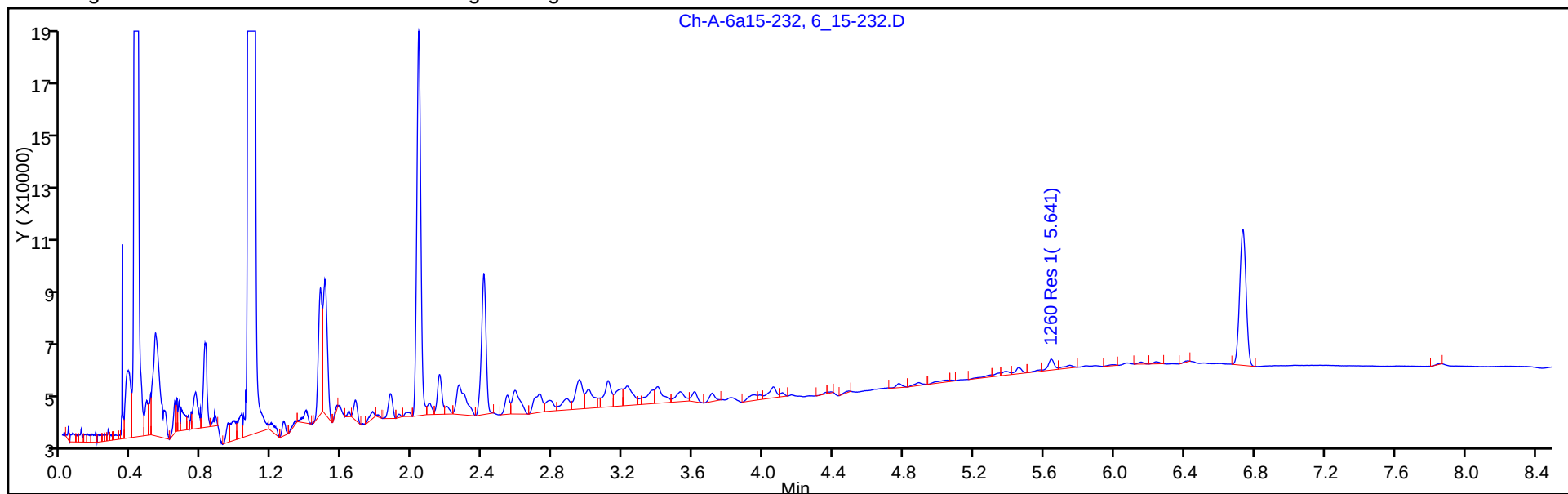
Dil. Factor: 1.0000

ALS Bottle#: 0

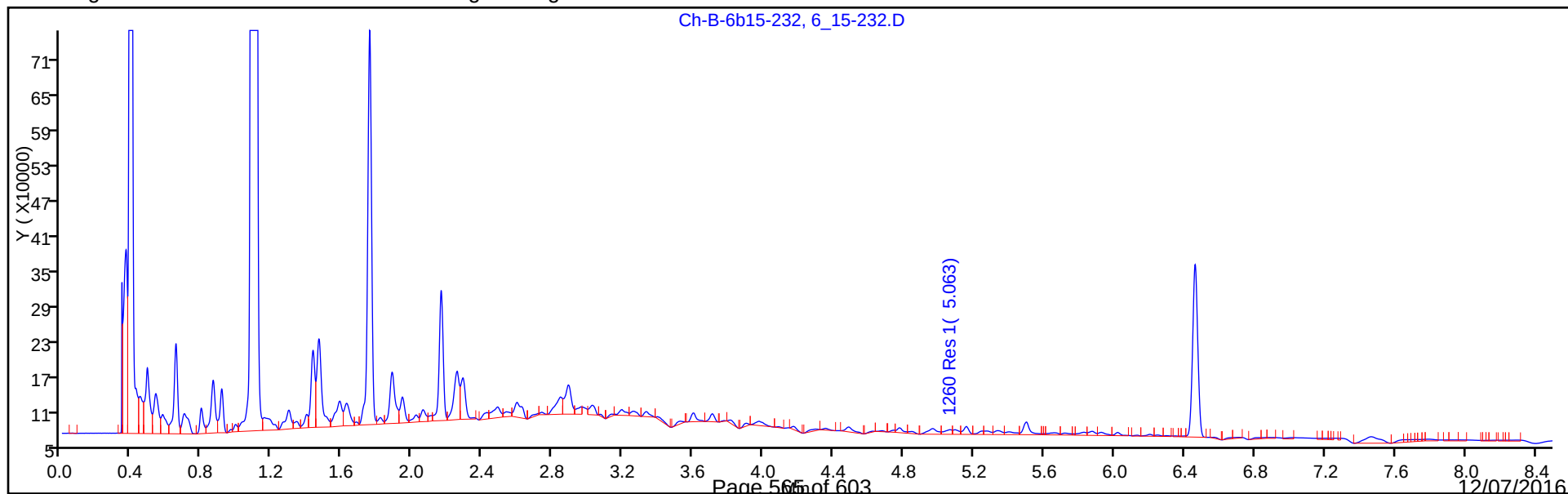
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-333619/1-A
 Matrix: Water Lab File ID: 6_15-232.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
 Sample wt/vol: 250 (mL) Date Analyzed: 11/29/2016 01:29
 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.: 333712 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
2051-24-3	DCB Decachlorobiphenyl	60		19-120
877-09-8	Tetrachloro-m-xylene	85		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-232.D
 Lims ID: MB 480-333619/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 29-Nov-2016 01:29:20 ALS Bottle#: 0 Worklist Smp#: 42
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 02:03:21 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk Date: 29-Nov-2016 02:03:31

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	1.082	1.080	0.002	6672484	0.5000	0.5000	
2	1.096	1.094	0.002	35920158	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.035	2.035	0.000	228002	0.0200	0.0166	
2	1.755	1.756	-0.001	1034209	0.0200	0.0171	
RPD = 3.10							

9 1260 Res 1

1	5.641	5.658	-0.017	9841		NR	
2	5.063	5.062	0.000	23194		NR	
RPD = NaN							

\$ 15 DCB Decachlorobiphenyl

1	6.735	6.732	0.003	130090	0.0200	0.0139	
2	6.463	6.462	0.000	599135	0.0200	0.0121	
RPD = 13.99							

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019	Amount Added: 20.00	Units: uL	Run Reagent
COPPER_00063	Amount Added: 1.00	Units: mL	Run Reagent

Report Date: 29-Nov-2016 02:03:32

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-232.D

Injection Date: 29-Nov-2016 01:29:20

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: MB 480-333619/1-A

Worklist Smp#: 42

Client ID:

Injection Vol: 1.0 ul

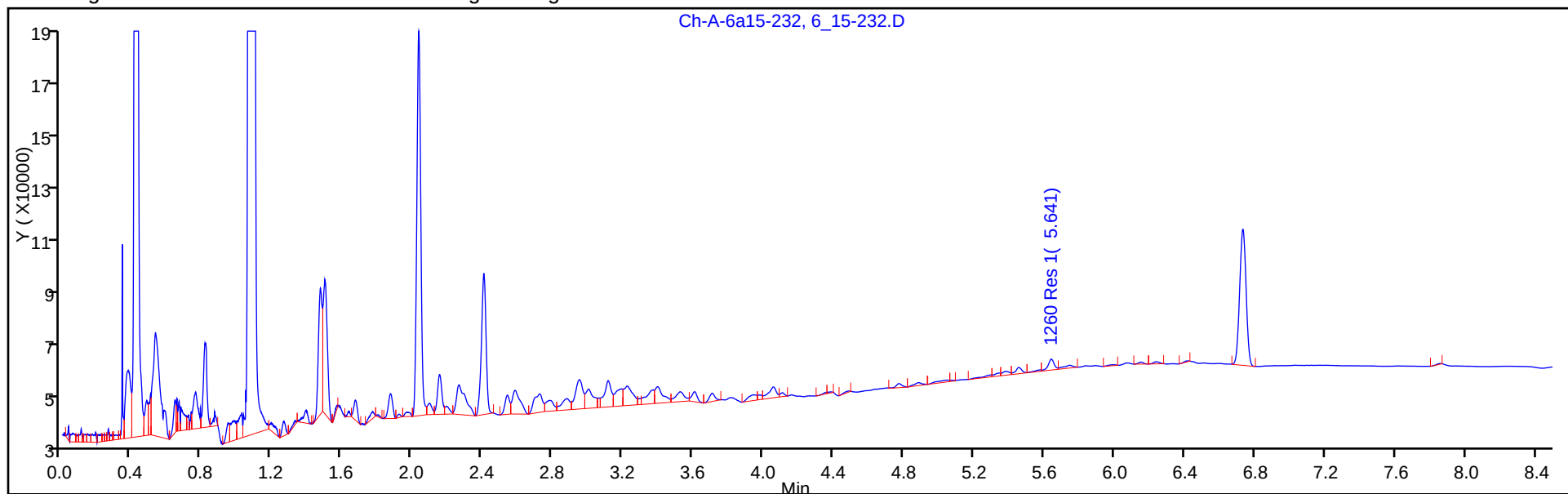
Dil. Factor: 1.0000

ALS Bottle#: 0

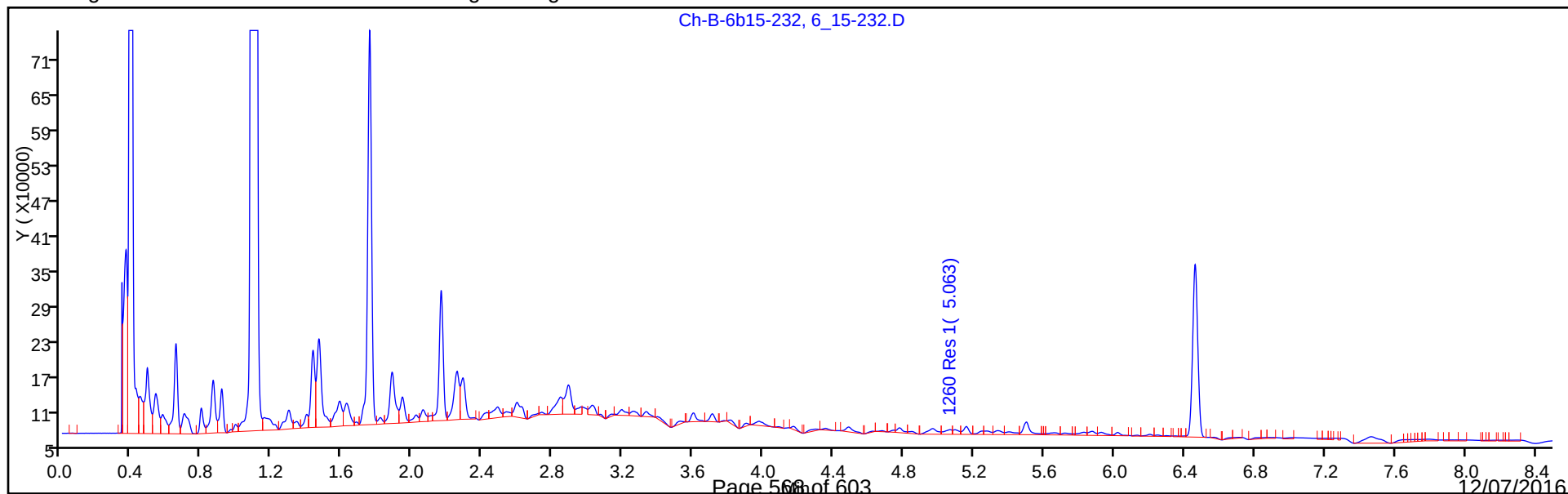
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 480-333619/2-A
Matrix: Water Lab File ID: 6_15-233.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
Sample wt/vol: 250 (mL) Date Analyzed: 11/29/2016 01:45
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	65		19-120
877-09-8	Tetrachloro-m-xylene	99		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-233.D
 Lims ID: LCS 480-333619/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 29-Nov-2016 01:45:14 ALS Bottle#: 0 Worklist Smp#: 43
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 02:03:21 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 29-Nov-2016 02:03:21

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	1.081	1.080	0.001	6265530	0.5000	0.5000	
2	1.094	1.094	0.000	33765364	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.034	2.035	-0.001	255144	0.0200	0.0197	
2	1.754	1.756	-0.002	946381	0.0200	0.0166	
RPD = 17.09							

6 PCB-1016

1	2.640	2.640	0.000	227733	0.5000	0.4828	
1	2.793	2.795	-0.002	164415	0.5000	0.5960	
1	3.005	3.005	0.000	557719	0.5000	0.5134	
1	3.091	3.091	0.000	218742	0.5000	0.6289	
1	3.153	3.154	-0.001	152366	0.5000	0.6300	
Average of Peak Amounts =						0.5702	
2	2.527	2.527	0.000	1104194	0.5000	0.4320	
2	2.853	2.853	0.000	2533574	0.5000	0.4786	
2	2.972	2.972	0.000	1003086	0.5000	0.4969	
2	3.069	3.069	0.000	531032	0.5000	0.3966	
2	3.358	3.357	0.001	1152264	0.5000	0.4925	
Average of Peak Amounts =						0.4593	
RPD = 21.54							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-233.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.894	4.894	0.000	489294	0.5000	0.7073	
1	5.025	5.024	0.001	201884	0.5000	0.5275	
1	5.215	5.213	0.002	198262	0.5000	0.5643	
1	5.423	5.421	0.001	484808	0.5000	0.6056	
1	5.659	5.658	0.001	260406	0.5000	0.6868	

Average of Peak Amounts = 0.6183

2	4.750	4.748	0.002	1589207	0.5000	0.5708	
2	4.797	4.796	0.001	892872	0.5000	0.3685	
2	5.060	5.062	-0.002	1005621	0.5000	0.4119	
2	5.200	5.198	0.002	2123348	0.5000	0.3433	
2	5.534	5.533	0.001	1368540	0.5000	0.3931	

Average of Peak Amounts = 0.4175

RPD = 38.76

\$ 15 DCB Decachlorobiphenyl

1	6.734	6.732	0.002	113931	0.0200	0.0129	
2	6.463	6.462	0.000	549625	0.0200	0.0118	

RPD = 9.38

Reagents:

PCB IS 1B2NB_00019
COPPER_00063Amount Added: 20.00
Amount Added: 1.00Units: uL
Units: mLRun Reagent
Run Reagent

Report Date: 29-Nov-2016 02:03:22

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-233.D

Injection Date: 29-Nov-2016 01:45:14

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: LCS 480-333619/2-A

Worklist Smp#: 43

Client ID:

Injection Vol: 1.0 ul

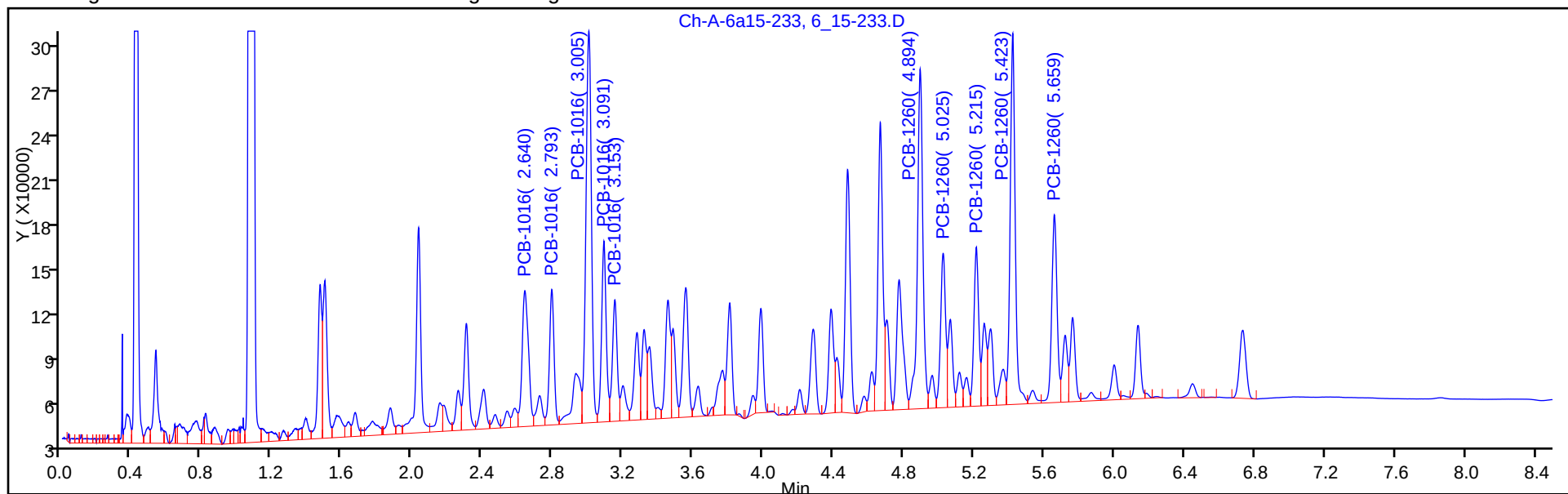
Dil. Factor: 1.0000

ALS Bottle#: 0

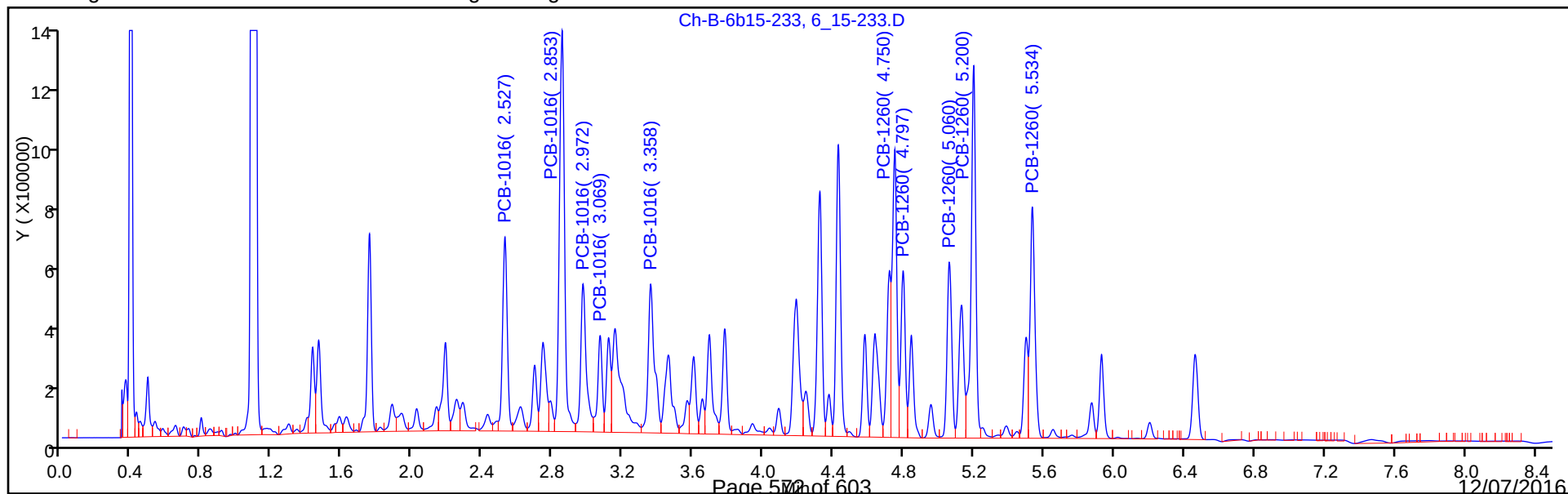
Method: 6890-6 PCB

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.: 480-110087-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-333619/2-A
 Matrix: Water Lab File ID: 6_15-233.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
 Sample wt/vol: 250 (mL) Date Analyzed: 11/29/2016 01:45
 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.: 333712 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.67		0.50	0.18
11096-82-5	PCB-1260	3.34		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	59		19-120
877-09-8	Tetrachloro-m-xylene	83		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-233.D
 Lims ID: LCS 480-333619/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 29-Nov-2016 01:45:14 ALS Bottle#: 0 Worklist Smp#: 43
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 02:03:21 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK003

First Level Reviewer: sobolk

Date: 29-Nov-2016 02:03:21

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	1.081	1.080	0.001	6265530	0.5000	0.5000	
2	1.094	1.094	0.000	33765364	0.5000	0.5000	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	2.034	2.035	-0.001	255144	0.0200	0.0197	
2	1.754	1.756	-0.002	946381	0.0200	0.0166	
RPD = 17.09							

6 PCB-1016

1	2.640	2.640	0.000	227733	0.5000	0.4828	
1	2.793	2.795	-0.002	164415	0.5000	0.5960	
1	3.005	3.005	0.000	557719	0.5000	0.5134	
1	3.091	3.091	0.000	218742	0.5000	0.6289	
1	3.153	3.154	-0.001	152366	0.5000	0.6300	
Average of Peak Amounts =						0.5702	
2	2.527	2.527	0.000	1104194	0.5000	0.4320	
2	2.853	2.853	0.000	2533574	0.5000	0.4786	
2	2.972	2.972	0.000	1003086	0.5000	0.4969	
2	3.069	3.069	0.000	531032	0.5000	0.3966	
2	3.358	3.357	0.001	1152264	0.5000	0.4925	
Average of Peak Amounts =						0.4593	
RPD = 21.54							

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-233.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.894	4.894	0.000	489294	0.5000	0.7073	
1	5.025	5.024	0.001	201884	0.5000	0.5275	
1	5.215	5.213	0.002	198262	0.5000	0.5643	
1	5.423	5.421	0.001	484808	0.5000	0.6056	
1	5.659	5.658	0.001	260406	0.5000	0.6868	

Average of Peak Amounts = 0.6183

2	4.750	4.748	0.002	1589207	0.5000	0.5708	
2	4.797	4.796	0.001	892872	0.5000	0.3685	
2	5.060	5.062	-0.002	1005621	0.5000	0.4119	
2	5.200	5.198	0.002	2123348	0.5000	0.3433	
2	5.534	5.533	0.001	1368540	0.5000	0.3931	

Average of Peak Amounts = 0.4175

RPD = 38.76

\$ 15 DCB Decachlorobiphenyl

1	6.734	6.732	0.002	113931	0.0200	0.0129	
2	6.463	6.462	0.000	549625	0.0200	0.0118	

RPD = 9.38

Reagents:

PCB IS 1B2NB_00019
COPPER_00063Amount Added: 20.00
Amount Added: 1.00Units: uL
Units: mLRun Reagent
Run Reagent

Report Date: 29-Nov-2016 02:03:23

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-233.D

Injection Date: 29-Nov-2016 01:45:14

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: LCS 480-333619/2-A

Worklist Smp#: 43

Client ID:

Injection Vol: 1.0 ul

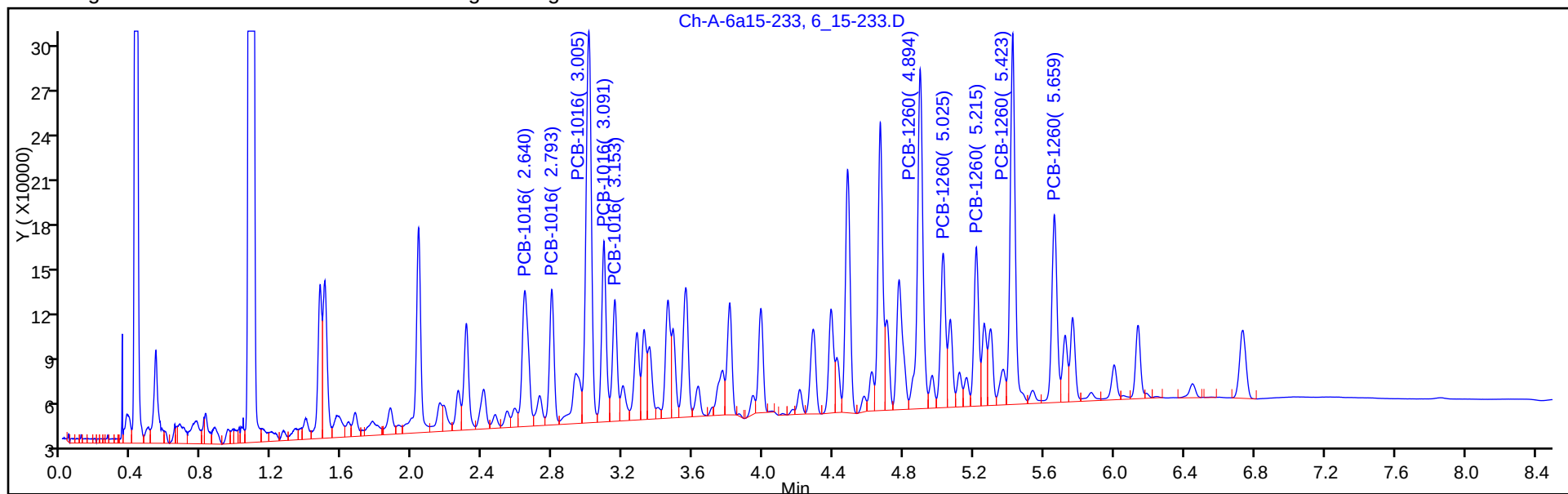
Dil. Factor: 1.0000

ALS Bottle#: 0

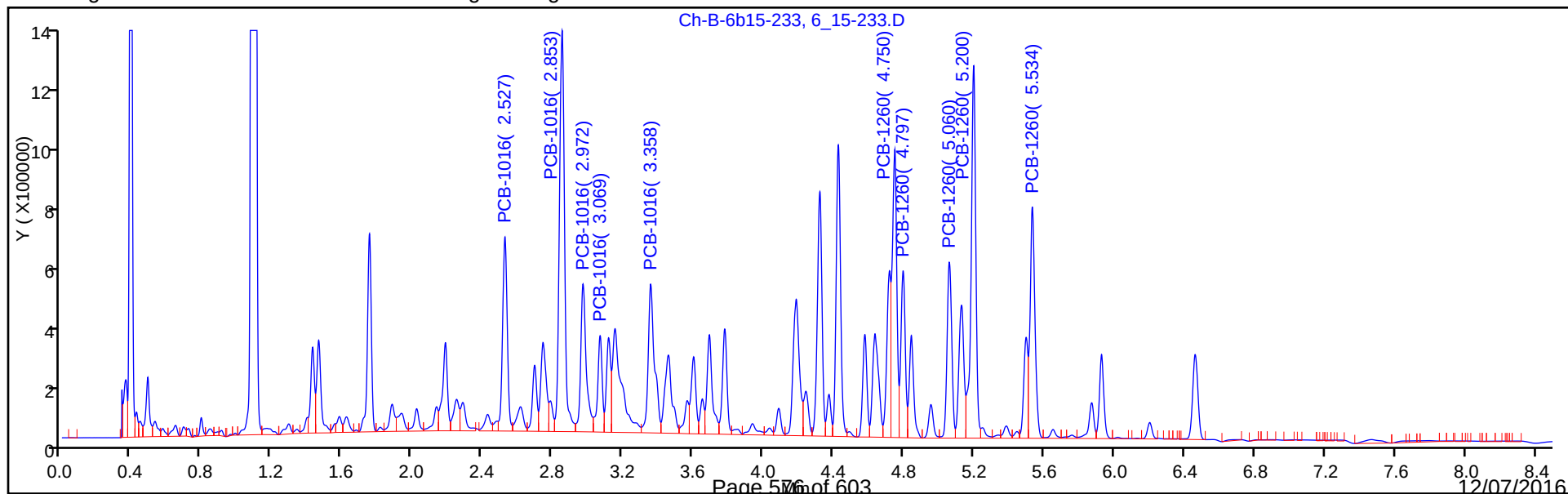
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Client Sample ID: MW-8 MS Lab Sample ID: 480-110087-4 MS
Matrix: Water Lab File ID: 6_15-236.D
Analysis Method: 8082A Date Collected: 11/23/2016 09:45
Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
Sample wt/vol: 256.2 (mL) Date Analyzed: 11/29/2016 02:33
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	68		19-120
877-09-8	Tetrachloro-m-xylene	101		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-236.D
 Lims ID: 480-110087-B-4-A MS
 Client ID: MW-8
 Sample Type: MS
 Inject. Date: 29-Nov-2016 02:33:29 ALS Bottle#: 0 Worklist Smp#: 46
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 12:37:34 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj Date: 29-Nov-2016 12:37:34

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	1.083	1.081	0.002	6720499	0.5000	0.5000	
2	1.098	1.096	0.002	37129092	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.037	2.034	0.003	279022	0.0200	0.0201	
2	1.757	1.756	0.001	1094208	0.0200	0.0175	
							RPD = 14.03

6 PCB-1016

1	2.643	2.639	0.003	236636	0.5000	0.4677	
1	2.796	2.794	0.002	167457	0.5000	0.5647	
1	3.005	3.006	-0.001	567942	0.5000	0.4875	
1	3.092	3.091	0.001	214293	0.5000	0.5724	
1	3.155	3.153	0.002	159630	0.5000	0.6149	
Average of Peak Amounts =						0.5414	
2	2.528	2.528	0.000	1180419	0.5000	0.4199	
2	2.854	2.853	0.002	2850978	0.5000	0.4897	
2	2.973	2.973	0.000	1184269	0.5000	0.5335	
2	3.069	3.069	0.000	634689	0.5000	0.4311	
2	3.358	3.358	0.000	1331339	0.5000	0.5175	
Average of Peak Amounts =						0.4784	
							RPD = 12.37

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-236.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.896	4.894	0.002	496743	0.5000	0.6695	
1	5.028	5.026	0.002	196458	0.5000	0.4786	
1	5.216	5.213	0.003	191088	0.5000	0.5070	
1	5.423	5.421	0.002	454985	0.5000	0.5298	
1	5.661	5.660	0.001	239871	0.5000	0.5898	

Average of Peak Amounts = 0.5549

2	4.749	4.749	0.000	1503557	0.5000	0.4911	
2	4.798	4.798	0.000	850723	0.5000	0.3193	
2	5.062	5.063	0.000	948933	0.5000	0.3535	
2	5.200	5.200	0.000	2007763	0.5000	0.2952	
2	5.534	5.535	-0.001	1348325	0.5000	0.3522	

Average of Peak Amounts = 0.3623

RPD = 42.01

9 1260 Res 1

1	5.661	5.660	0.001	239871		NR	
2	5.062	5.063	0.000	948933		NR	

RPD = NaN

14 1260 Res 2

1	5.722	5.721	0.001	77967		NR	
2	5.130	5.129	0.001	768877		NR	

RPD = NaN

12 1260 Res 3

1	5.764	5.764	0.000	96776		NR	
2	5.200	5.200	0.000	2007763		NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.736	6.735	0.001	128201	0.0200	0.0136	
2	6.464	6.463	0.002	698459	0.0200	0.0137	

RPD = 0.92

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019

Amount Added: 20.00

Units: uL

Run Reagent

COPPER_00063

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Nov-2016 12:37:35

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-236.D

Injection Date: 29-Nov-2016 02:33:29

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-B-4-A MS

Worklist Smp#: 46

Client ID: MW-8

Injection Vol: 1.0 ul

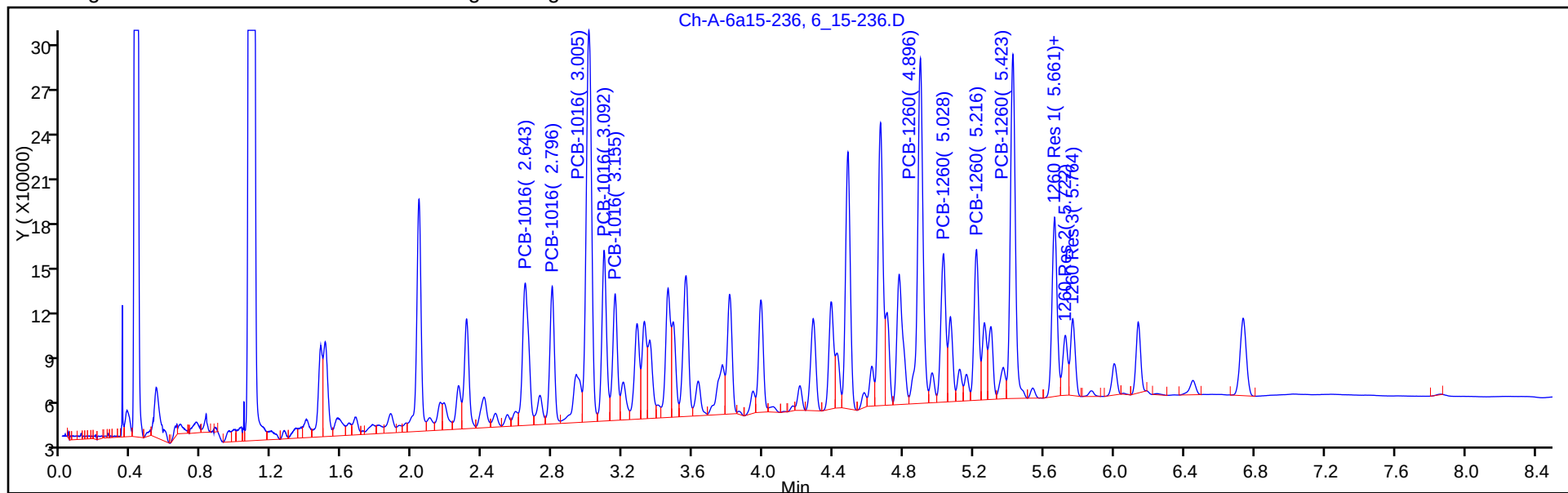
Dil. Factor: 1.0000

ALS Bottle#: 0

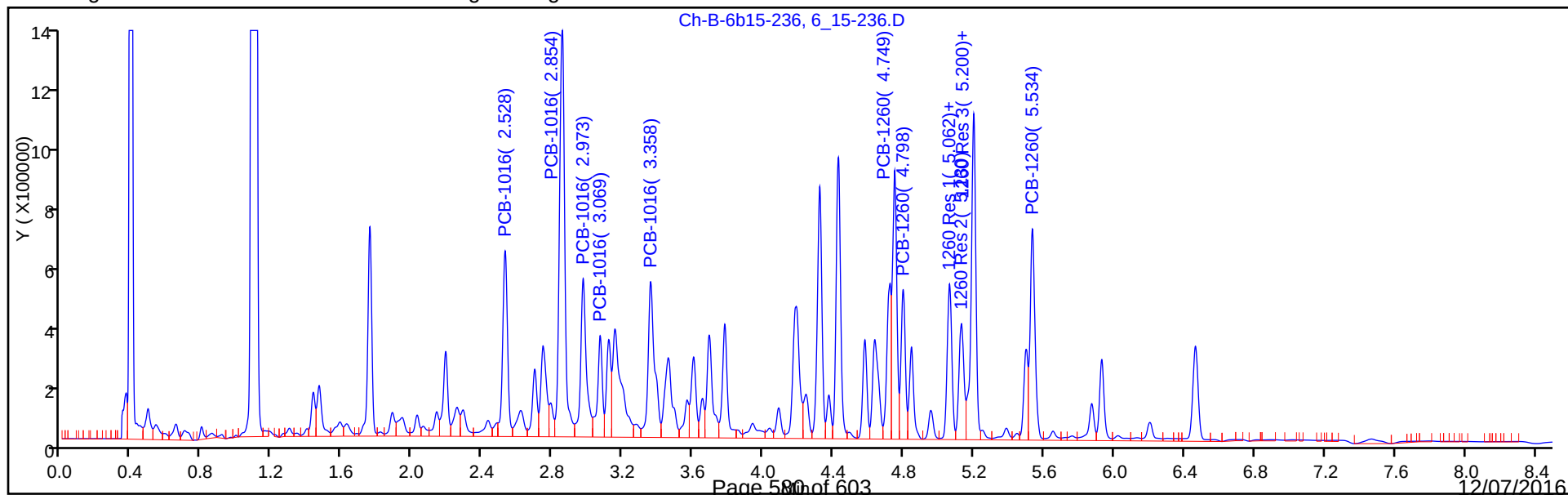
Method: 6890-6 PCB

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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-8 MS</u>	Lab Sample ID: <u>480-110087-4 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>6_15-236.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/23/2016 09:45</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/28/2016 07:50</u>
Sample wt/vol: <u>256.2 (mL)</u>	Date Analyzed: <u>11/29/2016 02:33</u>
Con. Extract Vol.: <u>2 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>333712</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.73		0.49	0.17
11104-28-2	PCB-1221	ND		0.49	0.17
11141-16-5	PCB-1232	ND		0.49	0.17
53469-21-9	PCB-1242	ND		0.49	0.17
12672-29-6	PCB-1248	ND		0.49	0.17
11097-69-1	PCB-1254	ND		0.49	0.24
11096-82-5	PCB-1260	2.83		0.49	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	69		19-120
877-09-8	Tetrachloro-m-xylene	87		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-236.D
 Lims ID: 480-110087-B-4-A MS
 Client ID: MW-8
 Sample Type: MS
 Inject. Date: 29-Nov-2016 02:33:29 ALS Bottle#: 0 Worklist Smp#: 46
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 12:37:34 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj Date: 29-Nov-2016 12:37:34

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	1.083	1.081	0.002	6720499	0.5000	0.5000	
2	1.098	1.096	0.002	37129092	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.037	2.034	0.003	279022	0.0200	0.0201	
2	1.757	1.756	0.001	1094208	0.0200	0.0175	
							RPD = 14.03

6 PCB-1016

1	2.643	2.639	0.003	236636	0.5000	0.4677	
1	2.796	2.794	0.002	167457	0.5000	0.5647	
1	3.005	3.006	-0.001	567942	0.5000	0.4875	
1	3.092	3.091	0.001	214293	0.5000	0.5724	
1	3.155	3.153	0.002	159630	0.5000	0.6149	
Average of Peak Amounts =						0.5414	
2	2.528	2.528	0.000	1180419	0.5000	0.4199	
2	2.854	2.853	0.002	2850978	0.5000	0.4897	
2	2.973	2.973	0.000	1184269	0.5000	0.5335	
2	3.069	3.069	0.000	634689	0.5000	0.4311	
2	3.358	3.358	0.000	1331339	0.5000	0.5175	
Average of Peak Amounts =						0.4784	
							RPD = 12.37

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-236.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.896	4.894	0.002	496743	0.5000	0.6695	
1	5.028	5.026	0.002	196458	0.5000	0.4786	
1	5.216	5.213	0.003	191088	0.5000	0.5070	
1	5.423	5.421	0.002	454985	0.5000	0.5298	
1	5.661	5.660	0.001	239871	0.5000	0.5898	

Average of Peak Amounts =

0.5549

2	4.749	4.749	0.000	1503557	0.5000	0.4911	
2	4.798	4.798	0.000	850723	0.5000	0.3193	
2	5.062	5.063	0.000	948933	0.5000	0.3535	
2	5.200	5.200	0.000	2007763	0.5000	0.2952	
2	5.534	5.535	-0.001	1348325	0.5000	0.3522	

Average of Peak Amounts =

0.3623

RPD = 42.01

9 1260 Res 1

1	5.661	5.660	0.001	239871		NR	
2	5.062	5.063	0.000	948933		NR	

RPD = NaN

14 1260 Res 2

1	5.722	5.721	0.001	77967		NR	
2	5.130	5.129	0.001	768877		NR	

RPD = NaN

12 1260 Res 3

1	5.764	5.764	0.000	96776		NR	
2	5.200	5.200	0.000	2007763		NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.736	6.735	0.001	128201	0.0200	0.0136	
2	6.464	6.463	0.002	698459	0.0200	0.0137	

RPD = 0.92

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019

Amount Added: 20.00

Units: uL

Run Reagent

COPPER_00063

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Nov-2016 12:37:36

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-236.D

Injection Date: 29-Nov-2016 02:33:29

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-B-4-A MS

Worklist Smp#: 46

Client ID: MW-8

Injection Vol: 1.0 ul

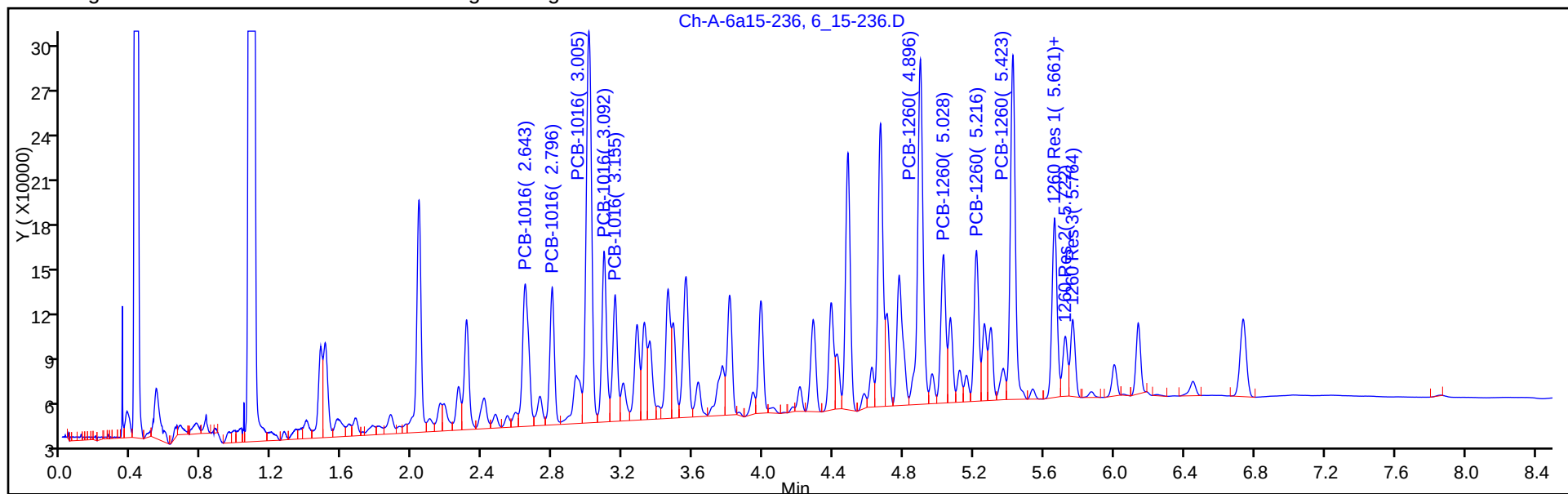
Dil. Factor: 1.0000

ALS Bottle#: 0

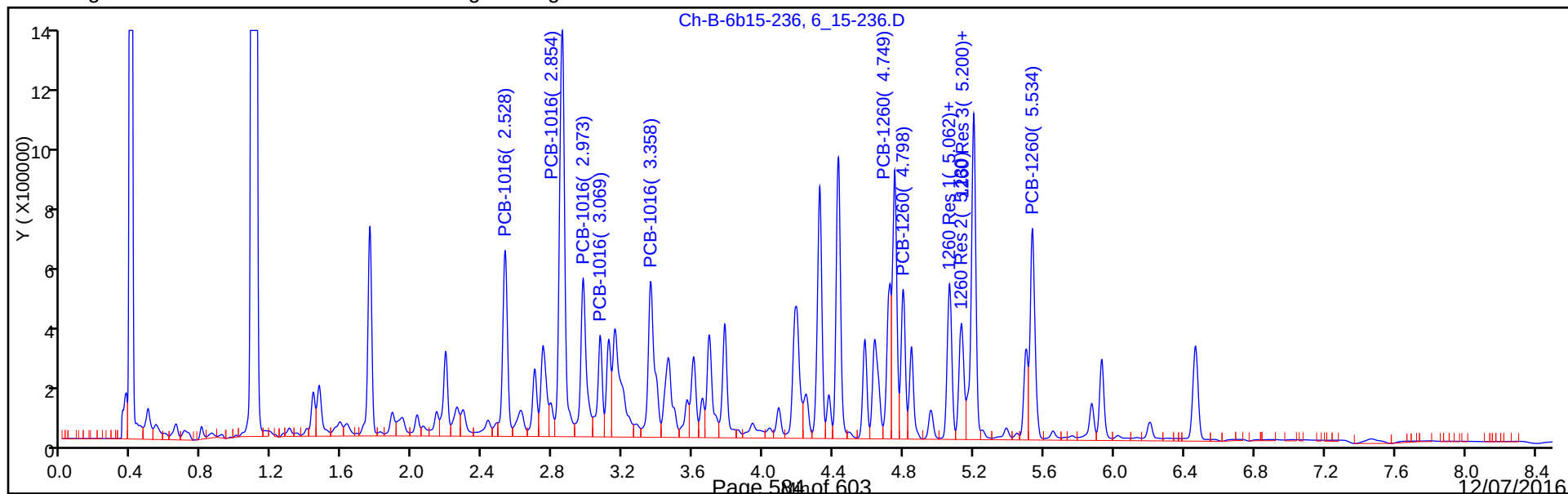
Method: 6890-6 PCB

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.: 480-110087-1
SDG No.: _____
Client Sample ID: MW-8 MSD Lab Sample ID: 480-110087-4 MSD
Matrix: Water Lab File ID: 6_15-237.D
Analysis Method: 8082A Date Collected: 11/23/2016 09:45
Extraction Method: 3510C Date Extracted: 11/28/2016 07:50
Sample wt/vol: 263.6(mL) Date Analyzed: 11/29/2016 02:49
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.: 333712 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	70		19-120
877-09-8	Tetrachloro-m-xylene	89		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-237.D
 Lims ID: 480-110087-A-4-A MSD
 Client ID: MW-8
 Sample Type: MSD
 Inject. Date: 29-Nov-2016 02:49:26 ALS Bottle#: 0 Worklist Smp#: 47
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 12:37:56 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj Date: 29-Nov-2016 12:37:56

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	1.081	1.081	0.000	6454756	0.5000	0.5000	
2	1.095	1.096	-0.001	34910565	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.035	2.034	0.001	236665	0.0200	0.0178	
2	1.755	1.756	-0.001	1168341	0.0200	0.0199	
							RPD = 11.08

6 PCB-1016

1	2.639	2.639	0.000	224980	0.5000	0.4630	
1	2.794	2.794	0.000	166405	0.5000	0.5851	
1	3.005	3.006	-0.001	593879	0.5000	0.5307	
1	3.091	3.091	0.000	230203	0.5000	0.6429	
1	3.154	3.153	0.001	161030	0.5000	0.6468	
Average of Peak Amounts =						0.5737	
2	2.527	2.528	-0.001	1296201	0.5000	0.4904	
2	2.852	2.853	0.000	2899341	0.5000	0.5297	
2	2.972	2.973	0.000	1226446	0.5000	0.5877	
2	3.069	3.069	0.000	670591	0.5000	0.4844	
2	3.358	3.358	0.000	1369886	0.5000	0.5663	
Average of Peak Amounts =						0.5317	
							RPD = 7.60

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-237.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.895	4.894	0.001	497630	0.5000	0.6983	
1	5.024	5.026	-0.002	200584	0.5000	0.5088	
1	5.216	5.213	0.003	194556	0.5000	0.5375	
1	5.424	5.421	0.003	466275	0.5000	0.5653	
1	5.661	5.660	0.001	256468	0.5000	0.6566	

Average of Peak Amounts =

0.5933

2	4.748	4.749	-0.001	1644636	0.5000	0.5714	
2	4.797	4.798	-0.001	890812	0.5000	0.3556	
2	5.062	5.063	0.000	983697	0.5000	0.3897	
2	5.199	5.200	-0.001	2031147	0.5000	0.3177	
2	5.534	5.535	-0.001	1387960	0.5000	0.3856	

Average of Peak Amounts =

0.4040

RPD = 37.96

9 1260 Res 1

1	5.661	5.660	0.001	256468		NR	
2	5.062	5.063	0.000	983697		NR	

RPD = NaN

14 1260 Res 2

1	5.722	5.721	0.001	88227		NR	
2	5.130	5.129	0.001	850063		NR	

RPD = NaN

12 1260 Res 3

1	5.765	5.764	0.001	107509		NR	
2	5.199	5.200	-0.001	2031147		NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.735	6.735	0.000	127653	0.0200	0.0141	
2	6.463	6.463	0.000	649682	0.0200	0.0135	

RPD = 3.94

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019

Amount Added: 20.00

Units: uL

Run Reagent

COPPER_00063

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Nov-2016 12:37:56

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-237.D

Injection Date: 29-Nov-2016 02:49:26

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-A-4-A MSD

Worklist Smp#: 47

Client ID: MW-8

Injection Vol: 1.0 ul

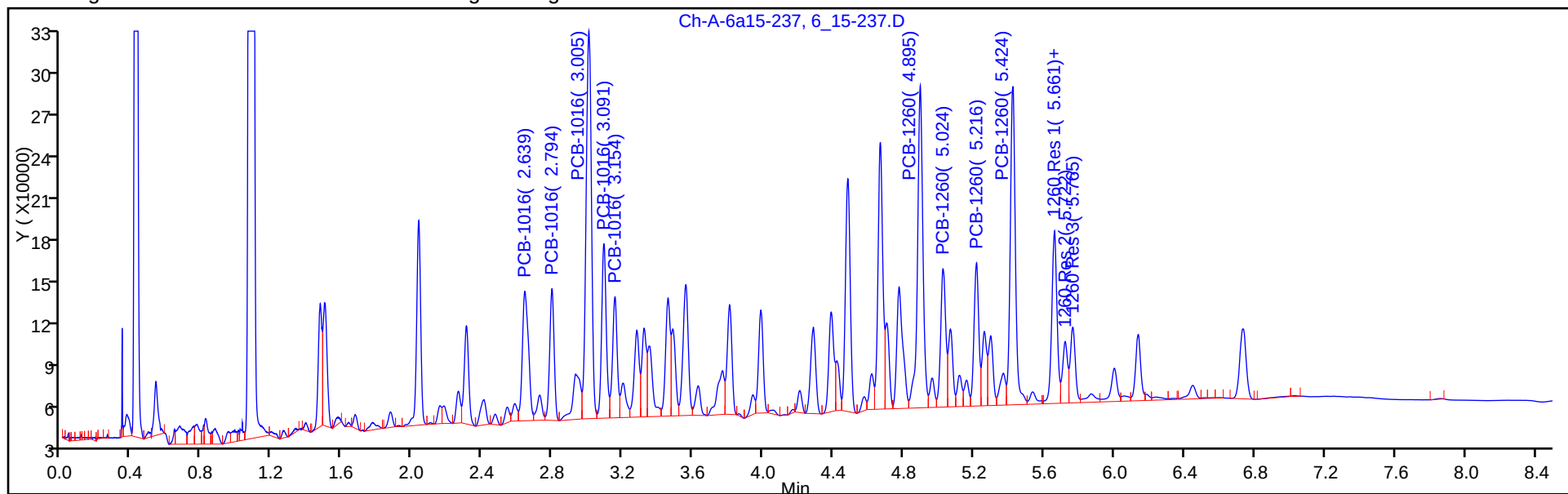
Dil. Factor: 1.0000

ALS Bottle#: 0

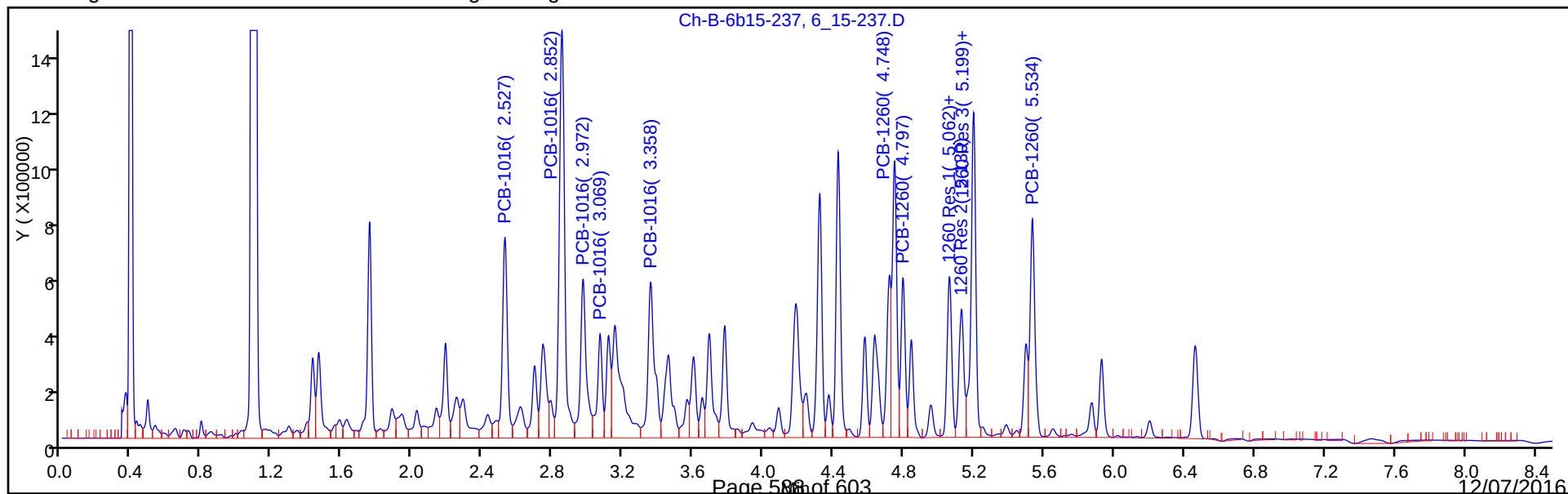
Method: 6890-6 PCB

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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-110087-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-8 MSD</u>	Lab Sample ID: <u>480-110087-4 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>6_15-237.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/23/2016 09:45</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/28/2016 07:50</u>
Sample wt/vol: <u>263.6(mL)</u>	Date Analyzed: <u>11/29/2016 02:49</u>
Con. Extract Vol.: <u>2(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53(mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>333712</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	4.03		0.47	0.17
11104-28-2	PCB-1221	ND		0.47	0.17
11141-16-5	PCB-1232	ND		0.47	0.17
53469-21-9	PCB-1242	ND		0.47	0.17
12672-29-6	PCB-1248	ND		0.47	0.17
11097-69-1	PCB-1254	ND		0.47	0.24
11096-82-5	PCB-1260	3.07		0.47	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	68		19-120
877-09-8	Tetrachloro-m-xylene	99		39-121

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-237.D
 Lims ID: 480-110087-A-4-A MSD
 Client ID: MW-8
 Sample Type: MSD
 Inject. Date: 29-Nov-2016 02:49:26 ALS Bottle#: 0 Worklist Smp#: 47
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP6890-6
 Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6890-6 PCB.m
 Limit Group: GC - 8082A PCB IS ICAL
 Last Update: 29-Nov-2016 12:37:56 Calib Date: 23-Nov-2016 18:36:16
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161123-58616.b\6_15-155.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK020

First Level Reviewer: owenj Date: 29-Nov-2016 12:37:56

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	1.081	1.081	0.000	6454756	0.5000	0.5000	
2	1.095	1.096	-0.001	34910565	0.5000	0.5000	
							RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	2.035	2.034	0.001	236665	0.0200	0.0178	
2	1.755	1.756	-0.001	1168341	0.0200	0.0199	
							RPD = 11.08

6 PCB-1016

1	2.639	2.639	0.000	224980	0.5000	0.4630	
1	2.794	2.794	0.000	166405	0.5000	0.5851	
1	3.005	3.006	-0.001	593879	0.5000	0.5307	
1	3.091	3.091	0.000	230203	0.5000	0.6429	
1	3.154	3.153	0.001	161030	0.5000	0.6468	
Average of Peak Amounts =						0.5737	
2	2.527	2.528	-0.001	1296201	0.5000	0.4904	
2	2.852	2.853	0.000	2899341	0.5000	0.5297	
2	2.972	2.973	0.000	1226446	0.5000	0.5877	
2	3.069	3.069	0.000	670591	0.5000	0.4844	
2	3.358	3.358	0.000	1369886	0.5000	0.5663	
Average of Peak Amounts =						0.5317	
							RPD = 7.60

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-237.D

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags

11 PCB-1260

1	4.895	4.894	0.001	497630	0.5000	0.6983	
1	5.024	5.026	-0.002	200584	0.5000	0.5088	
1	5.216	5.213	0.003	194556	0.5000	0.5375	
1	5.424	5.421	0.003	466275	0.5000	0.5653	
1	5.661	5.660	0.001	256468	0.5000	0.6566	

Average of Peak Amounts =

0.5933

2	4.748	4.749	-0.001	1644636	0.5000	0.5714	
2	4.797	4.798	-0.001	890812	0.5000	0.3556	
2	5.062	5.063	0.000	983697	0.5000	0.3897	
2	5.199	5.200	-0.001	2031147	0.5000	0.3177	
2	5.534	5.535	-0.001	1387960	0.5000	0.3856	

Average of Peak Amounts =

0.4040

RPD = 37.96

9 1260 Res 1

1	5.661	5.660	0.001	256468		NR	
2	5.062	5.063	0.000	983697		NR	

RPD = NaN

14 1260 Res 2

1	5.722	5.721	0.001	88227		NR	
2	5.130	5.129	0.001	850063		NR	

RPD = NaN

12 1260 Res 3

1	5.765	5.764	0.001	107509		NR	
2	5.199	5.200	-0.001	2031147		NR	

RPD = NaN

\$ 15 DCB Decachlorobiphenyl

1	6.735	6.735	0.000	127653	0.0200	0.0141	
2	6.463	6.463	0.000	649682	0.0200	0.0135	

RPD = 3.94

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

PCB IS 1B2NB_00019

Amount Added: 20.00

Units: uL

Run Reagent

COPPER_00063

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 29-Nov-2016 12:37:57

Chrom Revision: 2.2 14-Nov-2016 08:15:18

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20161128-58688.b\6_15-237.D

Injection Date: 29-Nov-2016 02:49:26

Instrument ID: HP6890-6

Operator ID: BufTCHROM

Lims ID: 480-110087-A-4-A MSD

Worklist Smp#: 47

Client ID: MW-8

Injection Vol: 1.0 ul

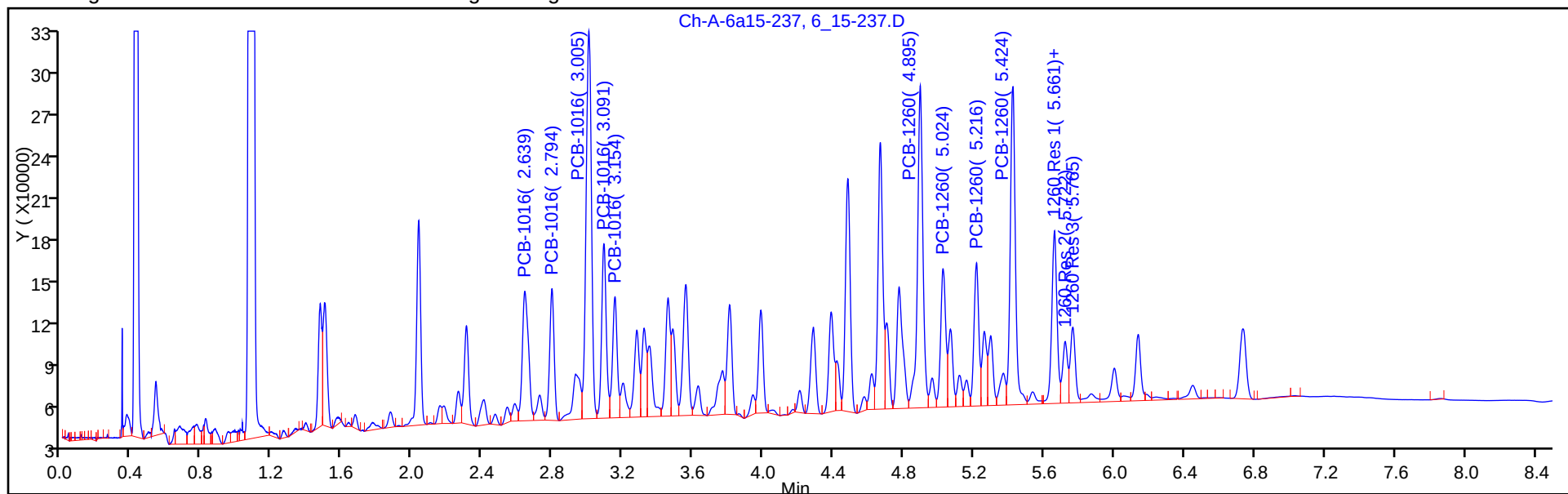
Dil. Factor: 1.0000

ALS Bottle#: 0

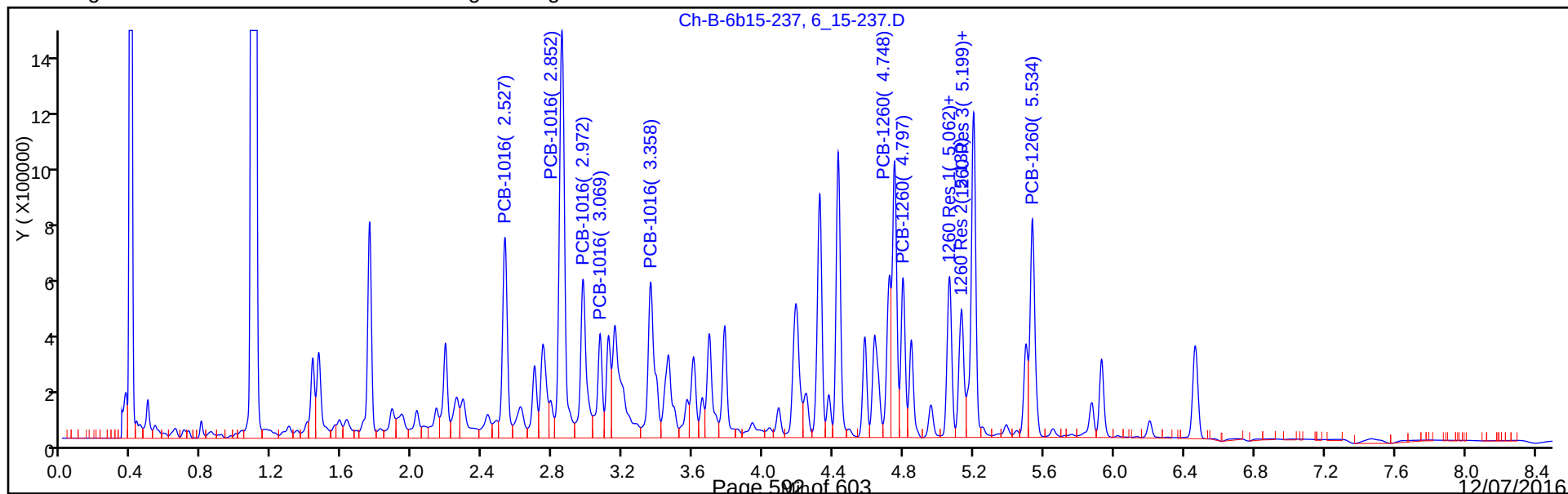
Method: 6890-6 PCB

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 BuffaloJob No.: 480-110087-1

SDG No.: _____

Instrument ID: HP6890-6Start Date: 09/15/2016 20:00Analysis Batch Number: 320599End Date: 09/16/2016 03:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-320599/3		09/15/2016 20:00	1	6_10-147.D	ZB-5 0.53 (mm)
IC 480-320599/3		09/15/2016 20:00	1	6_10-147.D	ZB-35 0.53 (mm)
IC 480-320599/4		09/15/2016 20:16	1	6_10-148.D	ZB-5 0.53 (mm)
IC 480-320599/4		09/15/2016 20:16	1	6_10-148.D	ZB-35 0.53 (mm)
ICIS 480-320599/5		09/15/2016 20:32	1	6_10-149.D	ZB-5 0.53 (mm)
ICIS 480-320599/5		09/15/2016 20:32	1	6_10-149.D	ZB-35 0.53 (mm)
IC 480-320599/6		09/15/2016 20:48	1	6_10-150.D	ZB-5 0.53 (mm)
IC 480-320599/6		09/15/2016 20:48	1	6_10-150.D	ZB-35 0.53 (mm)
IC 480-320599/7		09/15/2016 21:04	1	6_10-151.D	ZB-5 0.53 (mm)
IC 480-320599/7		09/15/2016 21:04	1	6_10-151.D	ZB-35 0.53 (mm)
IC 480-320599/8		09/15/2016 21:20	1	6_10-152.D	ZB-5 0.53 (mm)
IC 480-320599/8		09/15/2016 21:20	1	6_10-152.D	ZB-35 0.53 (mm)
IC 480-320599/9		09/15/2016 21:36	1	6_10-153.D	ZB-5 0.53 (mm)
IC 480-320599/9		09/15/2016 21:36	1	6_10-153.D	ZB-35 0.53 (mm)
ICV 480-320599/10		09/15/2016 21:52	1		ZB-5 0.53 (mm)
ICV 480-320599/10		09/15/2016 21:52	1		ZB-35 0.53 (mm)
CCV 480-320599/11		09/15/2016 22:08	1		ZB-5 0.53 (mm)
CCV 480-320599/11		09/15/2016 22:08	1		ZB-35 0.53 (mm)
ZZZZZ		09/15/2016 22:24	1		ZB-5 0.53 (mm)
ZZZZZ		09/15/2016 22:24	1		ZB-35 0.53 (mm)
ZZZZZ		09/15/2016 22:40	1		ZB-5 0.53 (mm)
ZZZZZ		09/15/2016 22:40	1		ZB-35 0.53 (mm)
CCVL 480-320599/14		09/15/2016 22:56	0.02		ZB-5 0.53 (mm)
CCVL 480-320599/14		09/15/2016 22:56	0.02		ZB-35 0.53 (mm)
IC 480-320599/15		09/15/2016 23:12	1	6_10-159.D	ZB-5 0.53 (mm)
IC 480-320599/15		09/15/2016 23:12	1	6_10-159.D	ZB-35 0.53 (mm)
IC 480-320599/16		09/15/2016 23:28	1	6_10-160.D	ZB-5 0.53 (mm)
IC 480-320599/16		09/15/2016 23:28	1	6_10-160.D	ZB-35 0.53 (mm)
IC 480-320599/17		09/15/2016 23:44	1	6_10-161.D	ZB-5 0.53 (mm)
IC 480-320599/17		09/15/2016 23:44	1	6_10-161.D	ZB-35 0.53 (mm)
ICV 480-320599/18		09/16/2016 00:00	1		ZB-5 0.53 (mm)
ICV 480-320599/18		09/16/2016 00:00	1		ZB-35 0.53 (mm)
IC 480-320599/19		09/16/2016 00:16	1	6_10-163.D	ZB-5 0.53 (mm)
IC 480-320599/19		09/16/2016 00:16	1	6_10-163.D	ZB-35 0.53 (mm)
IC 480-320599/20		09/16/2016 00:32	1	6_10-164.D	ZB-5 0.53 (mm)
IC 480-320599/20		09/16/2016 00:32	1	6_10-164.D	ZB-35 0.53 (mm)
IC 480-320599/21		09/16/2016 00:48	1	6_10-165.D	ZB-5 0.53 (mm)
IC 480-320599/21		09/16/2016 00:48	1	6_10-165.D	ZB-35 0.53 (mm)
ICV 480-320599/22		09/16/2016 01:04	1		ZB-5 0.53 (mm)
ICV 480-320599/22		09/16/2016 01:04	1		ZB-35 0.53 (mm)
IC 480-320599/23		09/16/2016 01:20	1	6_10-167.D	ZB-5 0.53 (mm)
IC 480-320599/23		09/16/2016 01:20	1	6_10-167.D	ZB-35 0.53 (mm)
IC 480-320599/24		09/16/2016 01:36	1	6_10-168.D	ZB-5 0.53 (mm)
IC 480-320599/24		09/16/2016 01:36	1	6_10-168.D	ZB-35 0.53 (mm)
IC 480-320599/25		09/16/2016 01:52	1	6_10-169.D	ZB-5 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1

SDG No.: _____

Instrument ID: HP6890-6 Start Date: 09/15/2016 20:00Analysis Batch Number: 320599 End Date: 09/16/2016 03:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-320599/25		09/16/2016 01:52	1	6_10-169.D	ZB-35 0.53 (mm)
ICV 480-320599/26		09/16/2016 02:08	1		ZB-5 0.53 (mm)
ICV 480-320599/26		09/16/2016 02:08	1		ZB-35 0.53 (mm)
IC 480-320599/27		09/16/2016 02:24	1	6_10-171.D	ZB-5 0.53 (mm)
IC 480-320599/27		09/16/2016 02:24	1	6_10-171.D	ZB-35 0.53 (mm)
IC 480-320599/28		09/16/2016 02:40	1	6_10-172.D	ZB-5 0.53 (mm)
IC 480-320599/28		09/16/2016 02:40	1	6_10-172.D	ZB-35 0.53 (mm)
IC 480-320599/29		09/16/2016 02:56	1	6_10-173.D	ZB-5 0.53 (mm)
IC 480-320599/29		09/16/2016 02:56	1	6_10-173.D	ZB-35 0.53 (mm)
ICV 480-320599/30		09/16/2016 03:12	1		ZB-5 0.53 (mm)
ICV 480-320599/30		09/16/2016 03:12	1		ZB-35 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-110087-1

SDG No.: _____

Instrument ID: HP6890-6Start Date: 11/23/2016 17:00Analysis Batch Number: 333359End Date: 11/23/2016 19:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD7 480-333359/2 IC		11/23/2016 17:00	1	6_15-149.D	ZB-5 0.53 (mm)
STD7 480-333359/2 IC		11/23/2016 17:00	1	6_15-149.D	ZB-35 0.53 (mm)
STD6 480-333359/3 IC		11/23/2016 17:16	1	6_15-150.D	ZB-5 0.53 (mm)
STD6 480-333359/3 IC		11/23/2016 17:16	1	6_15-150.D	ZB-35 0.53 (mm)
STD5 480-333359/4 IC		11/23/2016 17:32	1	6_15-151.D	ZB-5 0.53 (mm)
STD5 480-333359/4 IC		11/23/2016 17:32	1	6_15-151.D	ZB-35 0.53 (mm)
STD4 480-333359/5 IC		11/23/2016 17:48	1	6_15-152.D	ZB-5 0.53 (mm)
STD4 480-333359/5 IC		11/23/2016 17:48	1	6_15-152.D	ZB-35 0.53 (mm)
STD3 480-333359/6 IC		11/23/2016 18:04	1	6_15-153.D	ZB-5 0.53 (mm)
STD3 480-333359/6 IC		11/23/2016 18:04	1	6_15-153.D	ZB-35 0.53 (mm)
STD2 480-333359/7 IC		11/23/2016 18:20	1	6_15-154.D	ZB-5 0.53 (mm)
STD2 480-333359/7 IC		11/23/2016 18:20	1	6_15-154.D	ZB-35 0.53 (mm)
STD1 480-333359/8 IC		11/23/2016 18:36	1	6_15-155.D	ZB-5 0.53 (mm)
STD1 480-333359/8 IC		11/23/2016 18:36	1	6_15-155.D	ZB-35 0.53 (mm)
ZZZZZ		11/23/2016 18:52	1		ZB-5 0.53 (mm)
ZZZZZ		11/23/2016 18:52	1		ZB-35 0.53 (mm)
CCV 480-333359/10		11/23/2016 19:42	1		ZB-5 0.53 (mm)
CCV 480-333359/10		11/23/2016 19:42	1		ZB-35 0.53 (mm)
ZZZZZ		11/23/2016 19:57	1		ZB-5 0.53 (mm)
ZZZZZ		11/23/2016 19:57	1		ZB-35 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-110087-1

SDG No.: _____

Instrument ID: HP6890-6Start Date: 11/28/2016 14:58Analysis Batch Number: 333712End Date: 11/29/2016 06:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 480-333712/4		11/28/2016 14:58	1	6_15-194.D	ZB-5 0.53 (mm)
CCVIS 480-333712/4		11/28/2016 14:58	1	6_15-194.D	ZB-35 0.53 (mm)
CCV 480-333712/5		11/28/2016 15:14	1		ZB-5 0.53 (mm)
CCV 480-333712/5		11/28/2016 15:14	1		ZB-35 0.53 (mm)
CCV 480-333712/6		11/28/2016 15:30	1		ZB-5 0.53 (mm)
CCV 480-333712/6		11/28/2016 15:30	1		ZB-35 0.53 (mm)
CCV 480-333712/7		11/28/2016 15:46	1		ZB-5 0.53 (mm)
CCV 480-333712/7		11/28/2016 15:46	1		ZB-35 0.53 (mm)
CCV 480-333712/8		11/28/2016 16:02	1		ZB-5 0.53 (mm)
CCV 480-333712/8		11/28/2016 16:02	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 16:34	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 16:34	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 16:50	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 16:50	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 17:06	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 17:06	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 17:22	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 17:22	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 17:38	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 17:38	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 17:54	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 17:54	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 18:10	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 18:10	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 18:26	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 18:26	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 18:42	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 18:42	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 18:58	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 18:58	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 19:14	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 19:14	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 19:30	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 19:30	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 19:46	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 19:46	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 20:02	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 20:02	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 20:18	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 20:18	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 20:34	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 20:34	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 20:50	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 20:50	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 21:06	1		ZB-5 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-110087-1

SDG No.: _____

Instrument ID: HP6890-6Start Date: 11/28/2016 14:58Analysis Batch Number: 333712End Date: 11/29/2016 06:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/28/2016 21:06	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 21:22	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 21:22	1		ZB-35 0.53 (mm)
ZZZZZ		11/28/2016 21:38	1		ZB-5 0.53 (mm)
ZZZZZ		11/28/2016 21:38	1		ZB-35 0.53 (mm)
CCV 480-333712/33		11/28/2016 23:02	1	6_15-223.D	ZB-5 0.53 (mm)
CCV 480-333712/33		11/28/2016 23:02	1	6_15-223.D	ZB-35 0.53 (mm)
CCV 480-333712/34		11/28/2016 23:21	1	6_15-224.D	ZB-5 0.53 (mm)
CCV 480-333712/34		11/28/2016 23:21	1	6_15-224.D	ZB-35 0.53 (mm)
CCV 480-333712/35		11/28/2016 23:37	1	6_15-225.D	ZB-5 0.53 (mm)
CCV 480-333712/35		11/28/2016 23:37	1	6_15-225.D	ZB-35 0.53 (mm)
CCV 480-333712/36		11/28/2016 23:53	1	6_15-226.D	ZB-5 0.53 (mm)
CCV 480-333712/36		11/28/2016 23:53	1	6_15-226.D	ZB-35 0.53 (mm)
CCV 480-333712/37		11/29/2016 00:09	1	6_15-227.D	ZB-5 0.53 (mm)
CCV 480-333712/37		11/29/2016 00:09	1	6_15-227.D	ZB-35 0.53 (mm)
ZZZZZ		11/29/2016 00:41	1		ZB-5 0.53 (mm)
ZZZZZ		11/29/2016 00:41	1		ZB-35 0.53 (mm)
ZZZZZ		11/29/2016 00:57	1		ZB-5 0.53 (mm)
ZZZZZ		11/29/2016 00:57	1		ZB-35 0.53 (mm)
ZZZZZ		11/29/2016 01:13	1		ZB-5 0.53 (mm)
ZZZZZ		11/29/2016 01:13	1		ZB-35 0.53 (mm)
MB 480-333619/1-A		11/29/2016 01:29	1	6_15-232.D	ZB-5 0.53 (mm)
MB 480-333619/1-A		11/29/2016 01:29	1	6_15-232.D	ZB-35 0.53 (mm)
LCS 480-333619/2-A		11/29/2016 01:45	1	6_15-233.D	ZB-5 0.53 (mm)
LCS 480-333619/2-A		11/29/2016 01:45	1	6_15-233.D	ZB-35 0.53 (mm)
ZZZZZ		11/29/2016 02:01	1		ZB-5 0.53 (mm)
ZZZZZ		11/29/2016 02:01	1		ZB-35 0.53 (mm)
ZZZZZ		11/29/2016 02:17	1		ZB-5 0.53 (mm)
ZZZZZ		11/29/2016 02:17	1		ZB-35 0.53 (mm)
480-110087-4 MS		11/29/2016 02:33	1	6_15-236.D	ZB-5 0.53 (mm)
480-110087-4 MS		11/29/2016 02:33	1	6_15-236.D	ZB-35 0.53 (mm)
480-110087-4 MSD		11/29/2016 02:49	1	6_15-237.D	ZB-5 0.53 (mm)
480-110087-4 MSD		11/29/2016 02:49	1	6_15-237.D	ZB-35 0.53 (mm)
ZZZZZ		11/29/2016 03:05	1		ZB-5 0.53 (mm)
ZZZZZ		11/29/2016 03:05	1		ZB-35 0.53 (mm)
ZZZZZ		11/29/2016 03:21	1		ZB-5 0.53 (mm)
ZZZZZ		11/29/2016 03:21	1		ZB-35 0.53 (mm)
ZZZZZ		11/29/2016 03:37	1		ZB-5 0.53 (mm)
ZZZZZ		11/29/2016 03:37	1		ZB-35 0.53 (mm)
480-110087-2		11/29/2016 03:53	1	6_15-241.D	ZB-5 0.53 (mm)
480-110087-2		11/29/2016 03:53	1	6_15-241.D	ZB-35 0.53 (mm)
480-110087-3		11/29/2016 04:09	1	6_15-242.D	ZB-5 0.53 (mm)
480-110087-3		11/29/2016 04:09	1	6_15-242.D	ZB-35 0.53 (mm)
480-110087-4		11/29/2016 04:25	1	6_15-243.D	ZB-5 0.53 (mm)
480-110087-4		11/29/2016 04:25	1	6_15-243.D	ZB-35 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1
 SDG No.: _____
 Instrument ID: HP6890-6 Start Date: 11/28/2016 14:58
 Analysis Batch Number: 333712 End Date: 11/29/2016 06:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
480-110087-5		11/29/2016 04:41	1	6_15-244.D	ZB-5 0.53 (mm)
480-110087-5		11/29/2016 04:41	1	6_15-244.D	ZB-35 0.53 (mm)
480-110087-6		11/29/2016 04:57	1	6_15-245.D	ZB-5 0.53 (mm)
480-110087-6		11/29/2016 04:57	1	6_15-245.D	ZB-35 0.53 (mm)
480-110087-8		11/29/2016 05:13	1	6_15-246.D	ZB-5 0.53 (mm)
480-110087-8		11/29/2016 05:13	1	6_15-246.D	ZB-35 0.53 (mm)
ZZZZZ		11/29/2016 05:29	1		ZB-5 0.53 (mm)
ZZZZZ		11/29/2016 05:29	1		ZB-35 0.53 (mm)
480-110087-1		11/29/2016 05:45	1	6_15-248.D	ZB-5 0.53 (mm)
480-110087-1		11/29/2016 05:45	1	6_15-248.D	ZB-35 0.53 (mm)
CCV 480-333712/59		11/29/2016 06:01	1		ZB-5 0.53 (mm)
CCV 480-333712/59		11/29/2016 06:01	1		ZB-35 0.53 (mm)
ZZZZZ		11/29/2016 06:33	100		ZB-5 0.53 (mm)
ZZZZZ		11/29/2016 06:33	100		ZB-35 0.53 (mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-110087-1

SDG No.: _____

Batch Number: 333619 Batch Start Date: 11/28/16 07:50 Batch Analyst: Palermo, Stephan MBatch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	GrossWeight	TareWeight	InitialAmount	FinalAmount	O_608PCBSpike 00012
MB 480-333619/1		3510C, 8082A		7 SU			250 mL	2 mL	
LCS 480-333619/2		3510C, 8082A		7 SU			250 mL	2 mL	1 mL
480-110087-B-4 MS	MW-8	3510C, 8082A	T	7 SU	433.13 g	176.94 g	256.2 mL	2 mL	1 mL
480-110087-A-4 MSD	MW-8	3510C, 8082A	T	7 SU	439.19 g	175.6 g	263.6 mL	2 mL	1 mL
480-110087-B-2	MW-4	3510C, 8082A	T	7 SU	436.35 g	176.8 g	259.6 mL	2 mL	
480-110087-B-3	MW-6	3510C, 8082A	T	7 SU	432.11 g	176.9 g	255.2 mL	2 mL	
480-110087-B-4	MW-8	3510C, 8082A	T	7 SU	433.17 g	175.4 g	257.8 mL	2 mL	
480-110087-A-5	MW-7	3510C, 8082A	T	7 SU	431.40 g	174.6 g	256.8 mL	2 mL	
480-110087-A-6	MW-2R	3510C, 8082A	T	7 SU	379.72 g	175.2 g	204.5 mL	2 mL	
480-110087-A-8	DUP-112216	3510C, 8082A	T	7 SU	435.75 g	173.5 g	262.3 mL	2 mL	
480-110087-A-1	MW-5R	3510C, 8082A	T	7 SU	443.25 g	175.4 g	267.9 mL	2 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_PCBLsurr 00039					
MB 480-333619/1		3510C, 8082A		1 mL					
LCS 480-333619/2		3510C, 8082A		1 mL					
480-110087-B-4 MS	MW-8	3510C, 8082A	T	1 mL					
480-110087-A-4 MSD	MW-8	3510C, 8082A	T	1 mL					
480-110087-B-2	MW-4	3510C, 8082A	T	1 mL					
480-110087-B-3	MW-6	3510C, 8082A	T	1 mL					
480-110087-B-4	MW-8	3510C, 8082A	T	1 mL					
480-110087-A-5	MW-7	3510C, 8082A	T	1 mL					
480-110087-A-6	MW-2R	3510C, 8082A	T	1 mL					
480-110087-A-8	DUP-112216	3510C, 8082A	T	1 mL					
480-110087-A-1	MW-5R	3510C, 8082A	T	1 mL					

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.: 480-110087-1

SDG No.: _____

Batch Number: 333619 Batch Start Date: 11/28/16 07:50 Batch Analyst: Palermo, Stephan MBatch Method: 3510C Batch End Date: _____

Batch Notes	
Acid used for Clean Up ID	Sulfuric 3568205
Analyst ID - Concentration	SP
Exchange Solvent ID	3716444
Exchange Solvent Name	Hexane
Na2SO4 ID	3680550
Prep Solvent ID	3732233
Prep Solvent Name	MeCl2
Prep Solvent Volume Used	60 mL
Person's name who did the prep	SP
Analyst ID - Reagent Drop Witness	SP
Sufficient volume for MS/MSD?	Yes

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

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

Client Contact		Project Manager: Don Zuck		Site Contact: Ryan Chie		Date: 11-23-16		COC No: 1 of 1 COCs	
Company Name: Arcadis		Tel/Fax: 315-671-9152		Lab Contact:		Carrier:		Sampler:	
Address: 6723 Tonawanda Rd		Analysis Turnaround Time		Perform MS / MSD (Y / N)		Walk:		For Lab Use Only:	
City/State/Zip: Syracuse, NY 13057		☐ CALENDAR DAYS ☐ WORKING DAYS		Titrated Sample (Y / N)		Lab S:		Job /	
Phone: (315) 496-9120		TAT if different from Below		Matrix		Job /		Sample Specific Notes:	
Fax:		2 weeks		Sample Type		Job /		480-110087 COC	
Project Name: GE Parts & Repair Service Center		1 week		(C=Comp, G=Grab)		Job /			
Site: Tonawanda, NY		2 days		Sample Date		Job /			
PO # AF013103-4000		1 day		Sample Time		Job /			
Sample Identification		Sample Date		Sample Time		Matrix		# of Cont.	
MW-SR	11/22/16	1235	G	GW	5				
MW-4	11/22/16	1350	G	GW	5				
MW-6	11/22/16	1635	G	GW	5				
MW-8	11/23/16	0945	G	GW	5				
MW-8 - (MS/MSD)	11/23/16	0945	G	GW	10				
MW-7	11/23/16	1230	G	GW	5				
MW-2R	11/23/16	1345	G	GW	4				
Trip Blank	11/17/16	---	---	---	2				
DUR-112216	11/22/16	---	G	GW	5				
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☒ Unknown ☐ Poison B									
Special Instructions/QC Requirements & Comments:									
Custody Seal No.:		Custody Seal No.:		Cooler Temp. (°C):		Obs'd:		Therm ID No.:	
Relinquished by: [Signature]		Company: Arcadis		Received by: [Signature]		Company: T.A.		Date/Time: 11-23-16 2:00 PM	
Relinquished by: [Signature]		Company:		Received by:		Company:		Date/Time: 1-4-80	
Relinquished by:		Company:		Received in Laboratory by:		Company:		Date/Time:	

Temp 9.6 #1716

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

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

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-110087-1

Login Number: 110087

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Yes: Received same day of collection; chilling process has begun
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.	False	No: Received extra samples not listed on COC.
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.	True	
Chlorine Residual checked.	N/A	